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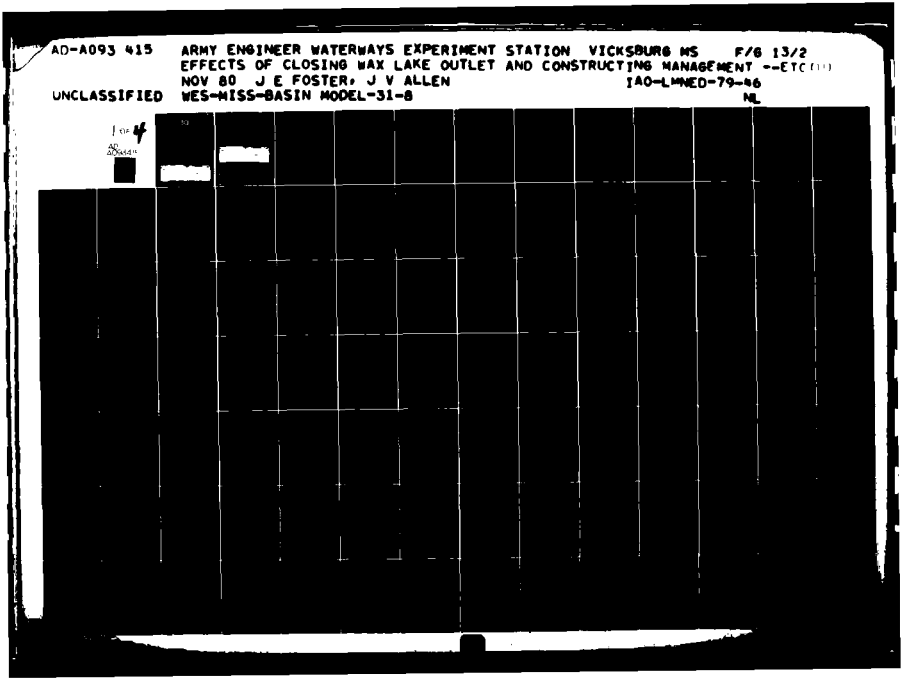

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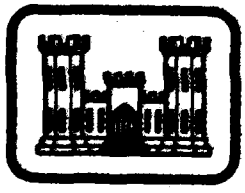

MISSISSIPPI BASIN MODEL REPORT 31-8

EFFECTS OF CLOSING WAX LAKE OUTLET AND CONSTRUCTING MANAGEMENT UNIT AND CHANNEL TRAINING LEVEES IN THE ATCHAFALAYA RIVER BASIN

by

James E. Foster, James V. Allen

Hydraulics Laboratory
U. S. Army Engineer Waterways Experiment Station
P. O. Box 631, Vicksburg, Miss. 39180

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November 1980
Final Report

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P. O. Box 60267, New Orleans, La. 70160

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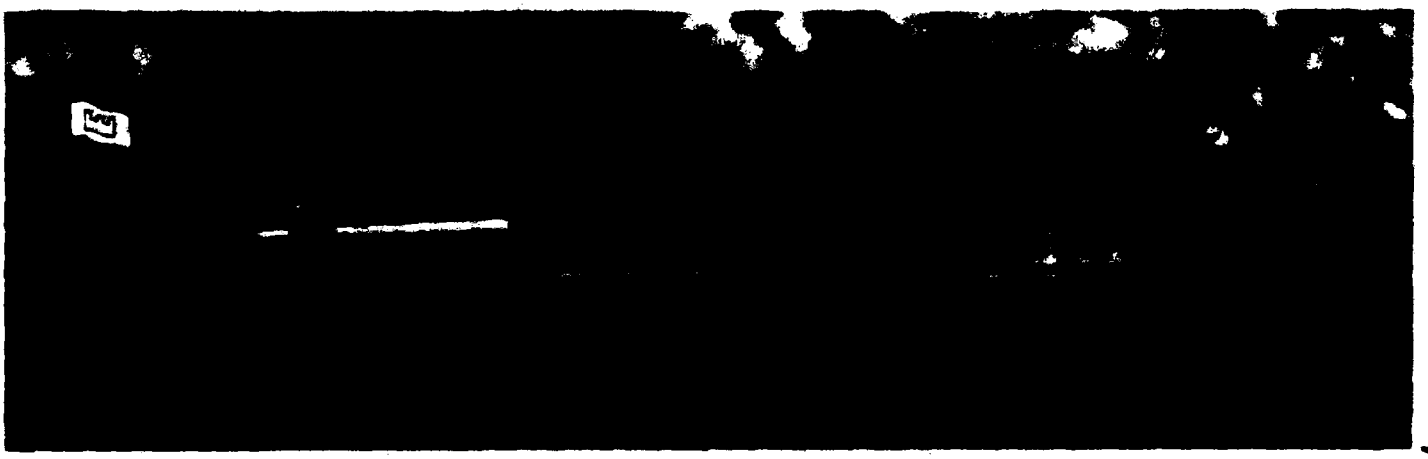

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Report No.	Title	Date
1-1	Preliminary Report on Proposed Reservoir Operation Model, Mississippi River and Tributaries	October 1942
1-2	Report on Proposed Sites	October 1942
1-3	Buffalo Project Report	April 1943
1-4	Description of the Mississippi Basin Model	July 1951
1-5	Automatic Instrumentation of the Mississippi Basin Model	November 1955
1-6	Glossary and Description of the Mississippi Basin Model	August 1971
2-1	Report of First Meeting of Mississippi Basin Model Board	October 1945
2-2	Report of Second Meeting of Mississippi Basin Model Board	March 1947
2-3	Report of Third Meeting of Mississippi Basin Model Board	May 1948
2-4	Report of Fourth Meeting of Mississippi Basin Model Board	August 1948
2-5	Report of Fifth Meeting of Mississippi Basin Model Board	June 1949
2-6	Report of Sixth Meeting of Mississippi Basin Model Board	March 1950
2-7	Report of Seventh Meeting of Mississippi Basin Model Board	March 1951
2-8	Report of Eighth Meeting of Mississippi Basin Model Board	August 1952
2-9	Report of Ninth Meeting of Mississippi Basin Model Board	September 1953
2-10	Report of Tenth Meeting of Mississippi Basin Model Board	October 1954
2-11	Report of Eleventh Meeting of Mississippi Basin Model Board	October 1955
2-12	Report of Twelfth Meeting of Mississippi Basin Model Board	May 1956
2-13	Report of Thirteenth (Fiscal Year 1957) Meeting of Mississippi Basin Model Board	May 1957
2-14	Report of Fourteenth (Fiscal Year 1958) Meeting of Mississippi Basin Model Board	May 1958
2-15	Report of Fifteenth (Fiscal Year 1959) Meeting of Mississippi Basin Model Board	May 1959
2-16	Report of Sixteenth Meeting of Mississippi Basin Model Board, Fiscal Year 1960	June 1960
2-17	Special Report of the Mississippi Basin Model on Curtailment of Model Limits (Seventeenth Meeting of the Board)	September 1960
2-18	Report of Eighteenth Meeting of Mississippi Basin Model Board, Fiscal Year 1961	July 1961
2-19	Report of Nineteenth Meeting of Mississippi Basin Model Board	July 1962
2-20	Report of Twentieth Meeting of Mississippi Basin Model Board	August 1963
2-21	Report of Twenty-First Meeting of Mississippi Basin Model Board	April 1964
2-22	Report of Twenty-Second Meeting of Mississippi Basin Model Board	April 1965
2-23	Report of Twenty-Third Meeting of Mississippi Basin Model Board	May 1966
2-24	Report of Twenty-Fourth Meeting of Mississippi Basin Model Board	June 1967
2-25	Report of Twenty-Fifth Meeting of Mississippi Basin Model Board	June 1968
2-26	Report of Twenty-Sixth Meeting of Mississippi Basin Model Board	June 1969
2-27	Report of Twenty-Seventh Meeting of Mississippi Basin Model Board	June 1970
3-1	The Mississippi Basin Model	Rev April 1958
12-1	Verification of Steam Gage-to-Thomson Reach, Missouri River and Tributaries, 1880 and 1949 Floods	April 1952
12-2	Verification of Steam Gage-to-Mouth Reach, Missouri River and Tributaries, 1952 and 1952 Floods	June 1960
13-1	Verification of the Pickwick Dam-Kentucky Dam Reach, Tennessee River and Tributaries, 1936 and 1948 Floods	December 1960
14-1	Verification of Tulsa-to-Van Buren Reach, Arkansas River and Tributaries, Spring 1941 and 1943 Floods	July 1958
14-2	Verification of Van Buren-to-Pine Bluff Reach, Arkansas River and Tributaries, Spring 1941 and 1943 Floods	November 1958
15-1	Verification of Hannibal-to-St. Louis Reach, Mississippi River and Tributaries, 1947, 1944, and 1943 Floods	August 1954
15-2	Verification of Hannibal-to-Gideon Reach, Mississippi River and Tributaries, 1947, 1944, and 1943 Floods	May 1959
23-1	Effects of Reservoirs and Bumbles of Twenty-Five Towns, Cumberland River	June 1965
23-2	Kentucky Reservoir Seventy Plow Profiles and Effects of Pickwick Landing Dam-to-Bumbuna Bayou	July 1965
23-3	Effects of Cheatham and Barkley Reservoirs and Coordinated Operation of Barkley and Kentucky Reservoirs, Cumberland and Tennessee Rivers	May 1969
24-1	Flood-Routing and Reservoir-Operation Study, Tulsa-to-Van Buren Reach, Arkansas River and Tributaries	April 1961
29-1	Comprehensive Testing Program	November 1971
31-1	Operation of the Birds Point-New Madrid Floodway	July 1957
31-2	Adequacy of Project Levee Grades in Hannibal-to-Gideon Reach, Mississippi River and Tributaries	April 1957
31-3	Proposed Alignments for Columbia Bottoms Levee, St. Louis Industrial Park	January 1960
31-4	Mississippi River Hypothetical Flood 30A	September 1962
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33-3	Tests for Re-evaluation of Missouri River Agricultural Levees in the Omaha District	May 1960
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34-2	Adequacy of Project Levee Grades Without and With Reservoir Modifications, Van Buren to Pine Bluff, Arkansas River	April 1957
35-1	Effects of Height and Alignment of Levees at Confluence of Missouri and Mississippi Rivers	October 1971
40-1	Hypothetical Storms over the Iowa Tributaries	October 1958
42-1	The Ohio River Hypothetical Flood 42-1	February 1962
44-1	Reevaluation of Discharge Hydrographs for Arkansas River and Tributaries, April 1957 Flood	June 1958
50-1	Tests of Channel Realignment near St. Joseph, Missouri	October 1964
51-1	Effects of Proposed Highway 9235 Across Glasgow Island	January 1959
51-2	Effects of Proposed Chute of Locks Bar, Mississippi River, Mile 370.1	September 1959
51-3	Effects of Existing Obstructions on Mississippi River Pool, Lake County, Tennessee	December 1957
51-4	Report of Model Study, Effects of Modifying Operation of Old River Control Structure on 1950, 1951, 1937, and 1950 Flood Flows, Appendix A, Additional Hydrographs	March 1971
52-5	Report of Model Study Effects of Alternate Channel Development in the Atchafalaya Basin	December 1970
52-6	Effects of Overbank Vegetation on Mississippi River Bridge at Old St. Louis-to-Dubuque Reach	June 1959
52-7	Effects of Roadway Embankment and Waterway Openings of Proposed Tennessee Highway 105 on Mississippi River Floods	July 1958
52-8	Effects of Abandoned Harbeson Canyon on Ohio River Flow Conditions at Grand Tower, Illinois	April 1958
52-9	Effects of Flood Heights of Levee, Railroad, and Highway Fills in the Flood Plain of the Missouri River	October 1958

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This study was concerned with the development of rating curves and water-surface profiles in the Atchafalaya River basin for various flow conditions with Wax Lake outlet open and closed and with and without land and water management unit and channel training levees. Model results indicate that closing Wax Lake outlet would raise stages throughout the basin upstream of the closure levee and lower stages in Wax Lake outlet downstream of the levee. Closing Wax Lake outlet raised stages upstream as far as Simmesport (0.1 ft) for the lowest flow tested
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20. ABSTRACT (Continued).

50,000 cfs). The maximum amount of rise in stages progressively increased with flow until the closure levee was overtopped and then decreased for overtopping flows. Model results also indicated that: constructing Buffalo Cove management unit levee would have no effect on average annual crest stages except in the West Atchafalaya basin upstream of the unit; constructing Upper Belle management unit levee would increase average annual crest stages in the East Atchafalaya basin upstream of the unit and in the West Atchafalaya basin just upstream of and along the unit; and constructing Atchafalaya River training levees would increase average annual crest stages in the West Atchafalaya basin by as much as 1.1 ft and lower those in the East Atchafalaya basin by as much as 0.6 ft.

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EFFECTS OF CLOSING WAX LAKE OUTLET AND CONSTRUCTING MANAGEMENT UNIT AND CHANNEL TRAINING LEVEES IN THE ATCHAFALAYA RIVER BASIN

Introduction

1. The U. S. Army Engineer District, New Orleans (LMN), requested the tests reported herein during a conference at the U. S. Army Engineer Waterways Experiment Station (WES) with personnel from the Lower Mississippi Valley Division, LMN, and WES on 13 November 1978. Funds for the study were authorized in Intra-Army Order LMNED-79-46, dated 19 January 1979. The tests were conducted on the Mississippi Basin Model (MBM) at the Jackson Installation of WES during the period February 1979-May 1979.

The Model

2. The tests were conducted on the Atchafalaya River basin portion of the MBM (Plate 1). The model is of the fixed-bed type, reproducing a large portion of the Mississippi River and its major tributary system to a horizontal scale of 1:2000 and a vertical scale of 1:100. General features of this model, including appurtenances, instrumentation, and operating procedures are discussed in detail in MBM Report 1-4, Description of the Mississippi Basin Model, dated 18 July 1951.

3. The purpose of this study was to aid in developing rating curves and water-surface profiles in the Atchafalaya River basin for various flow conditions with and without the Wax Lake Outlet closed and with and without Land and Water Management Unit and channel training levees. The tests also were to give LMN personnel an opportunity to observe flow patterns throughout the basin for the various flows with different conditions. Some of the data obtained from the tests will be used to recode for the analytical flow routing using the HEC6 program.

4. Prior to these tests, the Atchafalaya River basin portion of the model from Simmesport to Eugene Island, La., had been updated to reflect 1973-74 prototype conditions and adjusted to reproduce closely the stages

that occurred in 1973. The results of the adjustment were presented in a letter report to LMN dated 23 January 1978, subject: Results of Tests of the Average Annual Hydrograph in the Atchafalaya River Basin.

Test Procedure

5. This study consisted of seven steady-flow tests and eleven hydrograph tests with the Wax Lake Outlet open (1973-74 conditions), with Wax Lake Outlet closed, with Buffalo Cove Management Unit levee, with Upper Belle Management Unit levee, and with the Atachfalaya River training levees. Test conditions are given in the following paragraphs and in Table 1.

Steady Flow Tests

Description

6. With the model to 1973-74 conditions (Wax Lake Outlet open), steady flows equivalent to prototype flows of 50,000; 100,000; 200,000; 350,000; 425,000; 600,000; and 800,000 cfs were introduced at Simmesport on the Atchafalaya River and routed to Eugene Island where the water surface was held to 0.0-ft mean sea level (msl). Wax Lake Outlet was closed with a levee to the alignment and grades shown in Plate 2 and these flows were again introduced and routed to Eugene Island where the water surface was again held to 0.0 ft msl. Elevations of this levee were determined on the model to confine a flow of 550,000 cfs but allow a 600,000 cfs flow to overtop the levee for its entire length. Water-surface elevations were recorded for all tests at the gaging station shown in Plate 1. The gaging station locations for each unit area are shown in the specific area maps (Plates 2-4).

Results

7. The results of these tests, listed in Table 2, indicate that closing the Wax Lake Outlet with a levee as tested would raise stages throughout the basin upstream of the closure levee and lower stages in Wax Lake Outlet downstream of the levee for all flows tested. Closing Wax Lake Outlet raised stages as far upstream as Simmesport (0.1 ft) for the lowest flow tested (50,000 cfs). The maximum amount of rise in stages progressively increased

with flow until the closure levee was overtopped (from 0.3 ft for a flow of 50,000 cfs to 3.2 ft for a flow of 425,000 cfs), then decreased for flows that overtopped the closure levee (2.2 ft for a flow of 600,000 cfs and 0.5 ft for a flow of 800,000 cfs). The maximum increase for all flows was at the latitude of Charenton, La.

Hydrograph Tests

Description

8. With the model to 1973-74 conditions (Wax Lake Outlet open and carrying approximately 30 percent of the Atchafalaya River basin flow), four hydrograph flows (Tests 1A-4A in Plates 5-7) were introduced at Simmesport and routed to Eugene Island where the water surface was held to 0.0-ft msl. These four hydrographs were variations of an Atchafalaya River average annual hydrograph developed by LMN from prototype data for the period 1950-1974. The four variations resulted from assuming different distributions of the total flow at the latitude of Red River Landing between the Mississippi and Old Rivers. Test 1 assumed 40 percent of the flow to be in Old River and 60 percent in the Mississippi River. This resulted in a crest discharge at Simmesport of 565,000 cfs. Test 2 assumed Old River to be carrying 30 percent and the Mississippi to be carrying 70 percent, resulting in a crest dischage at Simmesport of 450,000 cfs. Test 3 assumed the flow through Old River to be controlled to maintain a stage of 35-ft msl or below at Acme, La., without exceeding a 20-ft water-surface differential at Old River control structure. The crest flow at Simmesport for this test was 345,000 cfs. Test 4, with a crest discharge at Simmesport of 337,500 cfs, assumed the flow through Old River to be controlled to maintain a stage of 35-ft msl or below at Acme, La., without considering water-surface differential at Old River control structure. With Wax Lake Outlet closed as for the steady-flow tests, these same hydrographs were introduced at Simmesport and routed to Eugene Island where the water surface was again held to 0.0-ft msl (Test 1B-4B).

9. The flows for Test 2 were also tested with: the model to 1973-74 conditions with the Buffalo Cove Management Unit levee, including inflow and outflow channels, installed as shown in Plate 3 (Test 2C); with the model to

1973-74 conditions and Upper Belle Management Unit levee installed as shown in Plate 4 (Test 2D); and with the model to 1973-74 conditions with the Atchafalaya River training levees installed as shown in Plate 4 (Test 2E). The elevations for the Buffalo Cove Management Unit levee were determined on the model to just contain a steady flow of 350,000 cfs. The entrance channel to this unit was 120 ft wide at 9-ft msl with one-on-three side slopes. The exit channel was 40 ft wide at 0.0-ft msl with one-on-three side slopes. The alignments for these levees and the elevations of the Upper Belle Management Unit levee and the Atchafalaya River training levees were furnished by LMN. Water-surface elevations were recorded at the gaging stations shown in Plate 1 and discharge hydrographs were obtained at Eugene Island for all hydrograph tests.

Results

10. The results of the hydrograph tests are presented in Table 3 and shown in Plates 8-160. These results indicate that the closure of Wax Lake Outlet would have about the same effect on crest stages of the hydrograph flows as it did on the steady flows of the same magnitude. Closing Wax Lake Outlet increased crest stages for Tests 3 and 4 a maximum of 2.3 ft, which was about the same as for a steady flow of 350,000 cfs, and 2.9 ft for Test 2, which was about the same as for a steady flow of 425,000 cfs. The maximum increase in stage (3.4 ft) occurred at the crest of Test 1 when the discharge just overtopped the closure levee.

Conclusions

11. A comparison of results of Test 2C with those of Test 2A indicates that constructing Buffalo Cove Management Unit levee (Plate 3) would have no effect on stages of the Average Annual Hydrograph except in the West Atachfalaya basin upstream of the unit. The maximum increase in crest stages was 1.6 ft at Lower Grand Bayou.

12. Constructing Upper Belle Management Unit levee (Plate 4) would increase crest stages of the Average Annual Hydrograph in the East Atchafalaya basin upstream of the unit and in the West Atchafalaya basin just upstream

and along the unit (Test 2D versus 2C). The maximum increase was 1.9 ft at Bayou Sorrel.

13. Constructing the Atachafalaya River training levees (Plate 4) would increase crest stages of the average annual hydrograph in the main channel and in the West Atchafalaya basin by as much as 1.1 ft and lower those in the East Atchafalaya basin by as much as 0.6 ft.

Table 1

Test Conditions

Test	Average Annual Flows at Simmesport, LA, with	Water-Surface Elev. in ft msl held at Eugene Island	Wax Lake Outlet	Conditions in Basin
1A	Miss. R. Flow-60%(1) Old R. Flow -40%	0.0	Open(2)	1973-74
1B	Miss. R. Flow-60%(1) Old R. Flow -40%	0.0	Closed(3)	1973-74
2A	Miss. R. Flow-70%(1) Old R. Flow -30%	0.0	Open(2)	1973-74
2B	Miss. R. Flow-70%(1) Old R. Flow -30%	0.0	Closed(3)	1973-74
2C	Miss. R. Flow-70%(1) Old R. Flow -30%	0.0	Open(2)	(6)
2D	Miss. R. Flow-70%(1) Old R. Flow -30%	0.0	Open(2)	(7)
2E	Miss. R. Flow-70%(1) Old R. Flow -30%	0.0	Open(2)	(8)
3A	35-ft plan at ACME(4) with head restriction at Old R. Channel Structure	0.0	Open(2)	1973-74
3B	35-ft plan at ACME(4) with head restriction at Old R. Channel Structure	0.0	Closed(3)	1973-74
4A	35-ft plan at ACME(5) without head restriction at Old R. Channel Structure	0.0	Open(2)	1973-74
4B	35-ft plan at ACME(5) without head restriction at Old R. Channel Structure	0.0	Closed(3)	1973-74

Table 1 (Notes)

(1) Distribution of flow at latitude of Red River Landing.
(2) Wax Lake Outlet open as during the 1973 flood with approximately 30% of the Atchafalaya River Basin flow passing Calumet, LA.
(3) Wax Lake Outlet closed by a levee to an elevation that contained a flow of 550,000 cfs but was overtopped with a flow of 600,000 cfs. See Plate 2 for levee location and grade.
(4) Flow through Old River controlled to maintain a stage at Acme, LA, of 35 ft msl or below without exceeding a 20-ft water-surface differential at Old River Channel Structure.
(5) Flow through Old River controlled to maintain a stage at Acme, LA, of 35 ft msl or below without considering water-surface differential at Old River Channel Structure.
(6) Conditions in the basin were the same as those for 1973-74 except the Buffalo Cove Management Unit levee with inflow and outflow channels was installed. See Plate 3 for location and grades.
(7) Conditions in the basin were the same as those for 1973-74 except the upper Belle Management Unit levee was installed. See Plate 4 for location and grades.
(8) Conditions in the basin were the same as those for 1973-74 except the Atchafalaya River Channel training levees were installed. See Plate 4 for location and grades.

Table 2
Water-Surface Elevations
Steady Flow Tests

Gaging Station	1963 River Mile	Water Surface - Wax Lake Outlet Open & Closed - Steady Flows of 50,000 cfs Open	50,000 cfs Closed	100,000 cfs Open	100,000 cfs Closed	200,000 cfs Open	200,000 cfs Closed	350,000 cfs Open	350,000 cfs Closed
		Main Channel and Center Portion of Floodway							
Simmesport	4.9	5.1	5.2	10.8	11.2	20.8	21.3	33.2	33.5
Woodside	14.5	3.2	3.4	8.6	9.1	18.6	19.1	30.5	30.8
Melville	29.5	2.6	2.8	7.0	7.8	15.6	16.4	26.0	26.3
Krotz Springs	41.3	2.4	2.6	6.2	7.1	14.1	15.0	23.5	23.9
Courtabeleau	48.4	2.3	2.5	6.1	7.0	13.5	14.4	22.3	22.7
WBPC	55.7	2.2	2.4	5.8	6.7	12.7	13.7	20.6	21.2
Desglaise	58.2	2.2	2.4	5.7	6.6	12.4	13.4	19.8	20.5
WBPC #175	60.6	2.2	2.4	5.6	6.5	12.2	13.2	19.5	20.2
Rycade	62.5	2.2	2.4	5.5	6.4	12.1	13.1	19.3	20.0
Upper Grand No. 5	64.3	2.2	2.4	5.5	6.4	11.8	12.8	18.7	19.4
L. Tensas Bayou No. 9	71.5	2.1	2.4	5.3	6.2	11.2	12.2	17.2	18.0
R. 22BC	77.8	1.8	2.1	4.6	5.6	10.0	11.2	15.4	16.2
Lake Chicot No. 15	79.4	1.7	2.0	4.3	5.3	9.4	10.7	14.8	15.8
Chicot Pass Mi. 83.2	83.2	1.5	1.8	4.0	5.1	8.9	10.4	14.2	15.3
Chicot Pass	89.8	1.4	1.7	3.4	4.5	7.2	9.0	11.6	13.3
Myette Point	95.4	1.2	1.5	3.0	4.2	6.4	8.3	10.2	12.3
Morgan City	117.7	0.5	0.5	0.8	1.1	1.9	2.8	4.2	5.8
Sweet Bay Lake	129.5	0.4	0.4	0.6	0.9	1.5	1.7	2.6	3.1
Mo. Atch. River	133.9	0.3	0.3	0.3	0.5	0.8	1.0	1.2	1.5
Eugene Island	146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Keel Boat Pass		0.6	0.6	1.3	1.9	4.1	5.3	7.2	9.7
Little Tensas Bayou		1.7	2.1	4.7	5.7	10.1	11.1	14.7	15.1
Atchafalaya	59.3	2.0	2.3	5.5	6.4	12.4	13.4	19.7	20.3
Butte La. Rose	64.8	2.0	2.3	5.5	6.4	12.1	13.1	18.8	19.4
La. Rompe No. 6	69.6	2.0	2.3	5.5	6.4	11.9	12.9	18.5	19.1
La. Rompe No. 10	74.1	1.9	2.2	5.2	6.1	11.2	12.2	16.9	17.6

(Continued)

Table 2 (Continued)

Gaging Station	1963 River Mile	Water Surface-Wax Lake Outlet Open & Closed-Steady Flows of 425,000 cfs Open	425,000 cfs Closed	600,000 cfs Open	600,000 cfs Closed	800,000 cfs Open	800,000 cfs Closed
Simmesport	4.9	38.5	38.5	48.5	48.5	57.1	57.1
Woodside	14.5	35.7	35.7	45.6	45.6	53.5	53.5
Melville	29.5	30.5	30.5	39.1	39.1	46.3	46.3
Krotz Springs	41.3	27.4	27.6	34.6	34.7	40.1	40.1
Courtabeleau	48.4	25.7	26.0	31.7	31.9	36.5	36.5
WBPC	55.7	23.7	24.0	28.3	28.5	30.8	30.8
Desglaise	58.2	22.8	23.1	27.1	27.3	29.1	29.1
WBPC #175	60.6	22.3	22.6	26.2	26.4	28.5	28.5
Rycade	62.5	21.9	22.2	25.5	25.7	27.3	27.3
Upper Grande No. 5	64.3	21.3	21.6	24.7	24.9	26.1	26.1
L. Tensas Bayou No. 9	71.5	19.4	19.7	21.8	22.2	23.3	23.3
R. 22BC	77.8	16.9	17.6	18.8	19.3	20.0	20.0
Lake Chicot No. 15	79.4	16.5	17.2	18.4	18.9	19.8	19.8
Chicot Pass Mi. 83.2	83.2	15.5	16.2	17.5	18.0	19.6	19.6
Chicot Pass	89.8	13.3	14.9	15.8	16.9	17.6	17.9
Myette Point	95.4	11.7	13.7	14.1	15.7	16.6	16.9
Morgan City	117.7	5.4	7.1	7.6	8.9	10.0	10.0
Sweet Bay Lake	129.5	3.2	3.8	4.2	4.7	5.7	5.7
Mo. Atch. River	133.9	1.5	1.7	1.8	2.0	2.3	2.3
Eugene Island	146.0	0.0	0.0	0.0	0.0	0.0	0.0
Keel Boat Pass		8.8	11.8	12.7	15.0	17.0	17.3
Little Tensas Bayou		16.0	16.4	17.7	18.3	21.4	21.4
Atchafalaya	59.3	22.7	23.0	27.0	27.2	29.7	29.7
Butte La. Rose	64.8	21.3	21.6	25.3	25.5	27.4	27.4
La. Rompe No. 6	69.6	20.9	21.3	24.6	24.8	26.5	26.5
La. Rompe No. 10	74.1	18.8	19.2	21.4	21.7	22.7	22.7

Table 2 (Continued)

Gaging Station	1963 River Mile	Water Surface - Wax Lake Outlet Open & Closed - Steady Flows of 50,000 cfs Open	50,000 cfs Closed	100,000 cfs Open	100,000 cfs Closed	200,000 cfs Open	200,000 cfs Closed	350,000 cfs Open	350,000 cfs Closed
East Atchafalaya Floodway									
Ramah	1630+00	--	--	4.7	5.3	9.9	10.7	13.6	13.9
Upper Grand R.	2439+00	0.9	0.9	2.7	3.3	9.3	10.1	12.9	13.2
Bayou Sorrel	2984+00	0.8	0.8	1.6	2.1	4.8	5.6	7.7	9.8
Bayou Pigeon	770+00	0.8	0.8	1.5	2.0	4.5	5.4	7.5	9.8
Old River	1344+00	0.7	0.7	1.3	1.8	3.8	5.1	7.0	9.4
Belle River	1546+00	0.7	0.7	1.3	1.8	3.4	4.7	6.5	8.9
L. Bayou Sorrel	1999+00	0.6	0.7	1.3	1.8	2.8	3.0	5.8	8.0
East Atchafalaya Floodway Management Units									
Upper Bayou Des Glaise Unit		--	--	--	--	--	--	13.1	13.4
Bayou Des Glaise Unit		--	--	--	--	9.5	10.2	13.1	13.4
Pigeon Bay		--	--	--	--	--	8.8	11.0	11.6
Flat Lake		--	0.6	1.5	2.0	4.7	5.7	7.6	9.8
Upper Belle R. No. 1		0.8	0.9	1.7	2.2	4.1	5.3	7.1	9.6
Upper Belle R. No. 2		0.5	0.5	0.9	1.2	2.5	4.0	5.7	8.2
West Atchafalaya Floodway									
Cleon	2730+00	--	--	--	--	11.8	12.8	17.0	17.1
Bayou Mersier	3246+00	2.9	2.9	5.5	6.3	11.8	12.8	17.0	17.1
Lower Grand Bayou	3937+00	1.6	1.8	3.5	4.4	7.5	9.4	12.6	14.1
Upper Grand Lake	4375+00	1.4	1.6	3.2	4.2	6.6	8.7	11.1	13.0
Charenton	4707+00	1.1	1.4	2.9	4.0	6.2	8.5	10.4	12.7
Six Mile Lake	5495+00	0.3	0.0	1.0	0.0	3.1	0.0	6.7	0.6
Calumet	111.1	0.3	0.0	0.6	0.0	1.3	0.0	4.5	0.6
Wax Lake Outlet	121.8	0.2	0.0	0.2	0.0	0.3	0.0	0.6	0.2

Table 2 (Continued)

Gaging Station	1963 River Mile	Water Surface-Wax Lake Outlet Open & Closed-Steady Flows of 425,000 cfs Open	425,000 cfs Closed	600,000 cfs Open	600,000 cfs Closed	800,000 cfs Open	800,000 cfs Closed
East Atchafalaya Floodway							
Ramah	1630+00	14.9	15.3	17.4	18.1	21.8	21.8
Upper Grand R.	2439+00	14.2	14.6	16.4	17.1	19.7	19.7
Bayou Sorrel	2984+00	9.4	11.8	12.8	15.0	17.2	17.4
Bayou Pigeon	770+00	9.0	11.8	12.8	14.9	16.9	17.2
Old River	1344+00	8.8	11.6	12.2	14.3	16.0	16.3
Belle River	1546+00	8.2	11.0	11.4	13.7	15.1	15.4
L. Bayou Sorrel	1999+00	7.1	9.9	10.4	12.4	13.7	13.8
East Atchafalaya Floodway Management Units							
Upper Bayou Des Glaise Unit		14.4	14.8	17.1	17.6	21.5	21.5
Bayou Des Glaise Unit		14.4	14.8	17.0	17.6	21.4	21.4
Pigeon Bay		11.7	13.0	14.1	16.0	18.4	18.7
Flat Lake		9.2	11.9	12.8	15.1	17.1	17.5
Upper Belle R. No. 1		8.6	11.8	12.3	14.8	16.2	16.7
Upper Belle R. No. 2		7.3	10.1	10.5	12.7	14.0	14.1
West Atchafalaya Floodway							
Cleon	2730+00	18.0	18.2	19.6	19.8	22.6	22.6
Bayou Mersier	3246+00	18.0	18.2	19.6	19.8	22.6	22.6
Lower Grand Bayou	3937+00	14.7	16.2	18.1	18.7	20.5	20.5
Upper Grand Lake	4375+00	13.0	14.7	15.8	16.7	17.9	18.2
Charenton	4707+00	12.5	14.3	15.0	16.1	17.0	17.5
Six Mile Lake	5495+00	8.3	1.1	10.9	7.1	14.2	11.6
Calumet	111.1	5.8	1.1	8.0	4.4	10.3	10.1
Wax Lake Outlet	121.8	0.8	0.2	1.0	1.0	1.9	1.9

Table 2 (Concluded)

Gaging Station	1963 River Mile	Water Surface - Wax Lake Outlet Open & Closed - Steady Flows of 50,000 cfs Open	50,000 cfs Closed	100,000 cfs Open	100,000 cfs Closed	200,000 cfs Open	200,000 cfs Closed	350,000 cfs Open	350,000 cfs Closed
West Atchafalaya Floodway Management Units									
Henderson Unit		--	--	--	--	11.7	12.9	17.2	17.3
Warner Lake Unit		--	--	--	--	--	--	--	--
Cocodrie Swamp		--	--	--	--	--	11.3	14.2	14.9
Beau Bayou		--	--	--	--	7.9	9.8	12.6	14.1
Buffalo Swamp		--	--	4.0	4.4	7.0	9.0	11.5	13.5
Lower Buffalo Cove		--	--	--	--	6.4	8.6	10.7	12.8

Gaging Station	1963 River Mile	Water Surface-Wax Lake Outlet Open & Closed-Steady Flows of 425,000 cfs Open	425,000 cfs Closed	600,000 cfs Open	600,000 cfs Closed	800,000 cfs Open	800,000 cfs Closed
West Atchafalaya Floodway Management Units							
Henderson Unit		18.1	18.4	19.7	20.0	22.6	22.6
Warner Lake Unit				24.8	25.1	27.6	27.6
Cocodrie Swamp		15.8	16.7	19.2	19.7	22.3	22.3
Beau Bayou		14.7	16.1	18.3	19.0	21.2	21.2
Buffalo Swamp		13.7	15.3	17.1	17.8	19.1	19.2
Lower Buffalo Cove		12.5	14.3	15.0	16.2	17.1	17.4

NOTE:

1. Water-surface elevations are in ft msl.
2. Wax Lake Outlet - Open as during the 1973 flood with approximately 30% of the Atchafalaya River Basin flow passing Calumet, La.
   - Closed by a levee to an elevation that contained a flow of 500,000 cfs but was over-topped with a flow of 600,000 cfs. See Plate 2 for levee location and grade.
3. East and West Atchafalaya gages are located along the levees.
4. Management Unit gages are located about the center of the East and West Floodway.
5. -- Denotes no water at the gage.

Table 3
Crest Water-Surface Elevations
Hydrograph Tests

Gaging Station	1963 River Mile	Test 1		Test 2					Test 3		Test 4	
		A	B	A	B	C	D	E	A	B	A	B
		Main Channel and Center Portion of Floodway										
Simmesport	4.9	47.0	47.0	38.2	38.3	38.2	38.2	38.2	32.7	32.8	32.4	32.5
Woodside	14.5	43.8	43.8	35.5	35.7	35.5	35.5	35.5	29.8	30.1	29.4	29.7
Melville	29.5	37.7	37.7	30.1	30.4	30.1	30.1	30.1	25.3	25.7	24.9	25.3
Krotz Springs	41.3	33.4	33.4	27.2	27.5	27.2	27.2	27.2	22.9	23.4	22.5	23.0
Courtabeleau	48.4	31.0	31.0	25.5	25.8	25.5	25.5	25.5	21.6	22.0	21.2	21.6
WBPC	55.7	27.6	27.7	23.4	23.7	23.4	23.4	23.6	20.0	20.6	19.7	20.3
Desglaise	58.2	26.4	26.6	22.6	22.9	22.6	22.6	22.8	19.2	19.9	19.1	19.8
Upper Grand No. 5	64.3	24.4	24.7	21.1	21.6	21.1	21.1	21.5	18.2	18.9	18.0	18.7
L. Tensas Bayou No. 9	71.5	21.8	22.1	19.0	19.6	19.0	19.0	19.6	16.8	17.6	16.5	17.4
Lake Chicot No. 15	79.4	18.2	18.6	16.3	17.0	16.3	16.3	17.0	14.2	15.3	14.2	15.0
Chicot Pass	89.8	15.3	16.5	13.0	14.6	13.0	13.5	14.0	11.0	12.6	10.8	12.4
Myette Point	95.4	13.4	15.5	11.4	13.3	11.4	11.9	12.5	9.6	11.7	9.4	11.6
Morgan City	117.7	7.2	9.1	5.1	7.0	5.1	5.1	4.8	3.9	5.6	3.7	5.2
Sweet Bay Lake	129.5	4.0	4.9	3.1	3.8	3.1	3.1	3.1	2.4	3.2	2.4	3.1
Mo. Atch. River	133.9	1.7	1.9	1.3	1.6	1.3	1.3	1.3	1.0	1.4	1.0	1.3
Eugene Island	146.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Keel Boat Pass		11.8	15.1	8.6	11.3	8.6	7.4	8.0	6.8	9.0	6.7	8.8
Little Tensas Bayou		17.4	18.0	15.9	16.3	15.9	15.9	16.1	14.4	14.9	14.2	14.8
Atchafalaya	59.3	26.4	26.6	22.5	22.8	22.5	22.5	22.8	19.2	19.7	19.2	19.7
Butte La. Rose	64.8	24.9	25.1	21.2	21.6	21.2	21.2	21.5	18.4	19.0	18.2	18.7
La. Rompe No. 6	69.6	24.3	24.5	20.6	21.0	20.6	20.6	21.0	18.0	18.6	17.7	18.3
La. Rompe No. 10	74.1	21.2	21.5	18.6	20.0	18.6	18.6	19.0	16.5	17.2	16.3	17.0

Table 3 (Continued)

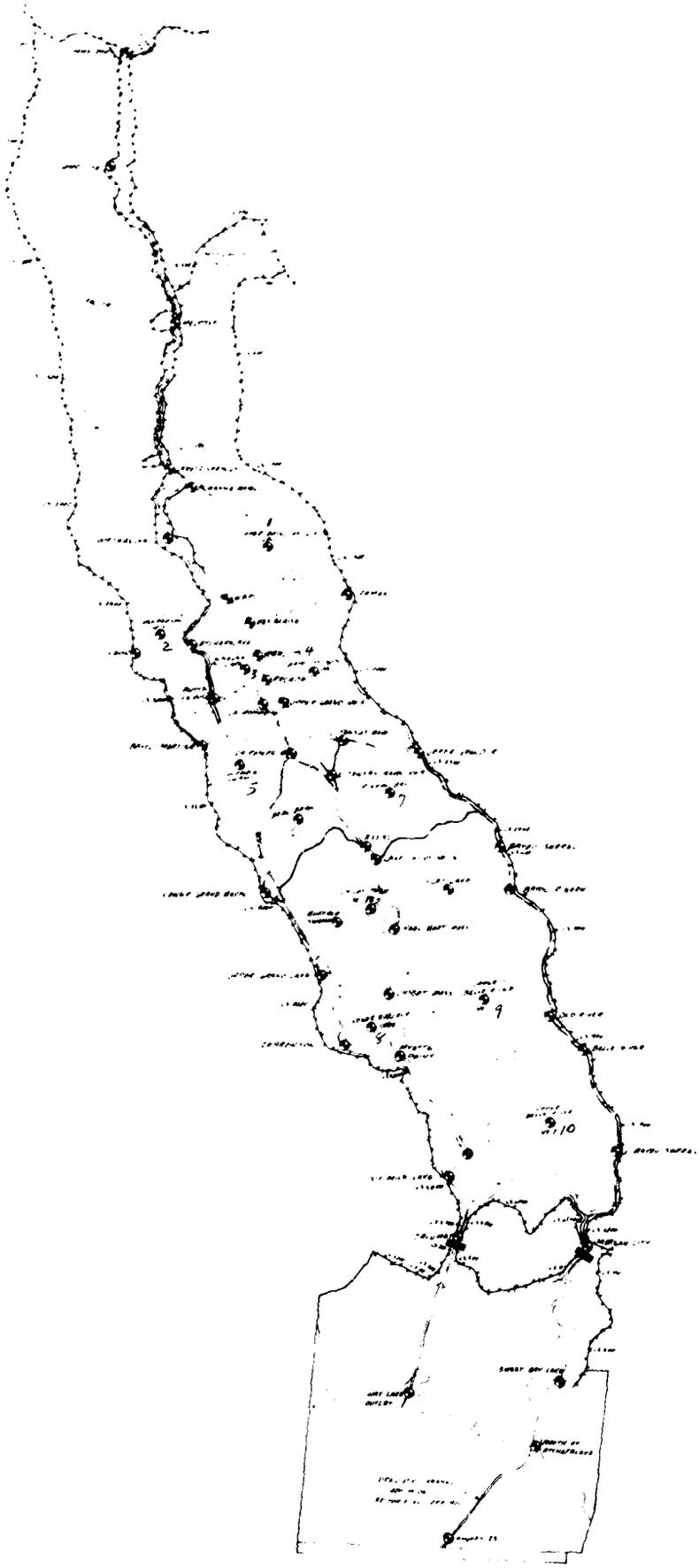
Gaging Station	1963 River Mile	Test 1		Test 2					Test 3		Test 4	
		A	B	A	B	C	D	E	A	B	A	B
East Atchafalaya Floodway												
Ramah	1630+00	16.4	17.5	14.5	14.9	14.5	14.5	14.5	13.3	13.6	13.1	13.6
Upper Grand R.	2439	15.6	16.7	13.7	14.2	13.7	13.7	13.7	12.5	12.9	12.4	12.9
Bayou Sorrel	2984	11.8	14.9	8.8	11.3	8.8	10.7	8.6	7.2	9.0	7.0	8.8
Bayou Pigeon	770+00	11.7	15.0	8.7	11.3	8.7	8.7	8.2	7.2	9.0	7.0	8.8
Old River	1344	11.2	14.6	8.2	11.0	8.2	7.7	7.7	6.6	8.7	6.4	8.4
Belle River	1546	10.6	14.0	7.7	10.6	7.7	7.4	7.2	6.1	8.3	5.8	8.0
L. Bayou Sorrell	1999+00	9.4	12.8	7.0	9.6	7.0	6.8	6.6	5.4	7.7	5.4	7.6
East Atchafalaya Floodway Management Units												
Upper Bayou Des Glaise Unit		15.8	17.0	14.0	14.4	14.0	14.0	14.0	12.6	12.8	11.8	12.3
Bayou Des Glaise Unit		15.8	17.0	13.9	14.4	13.9	13.9	13.9	12.6	13.0	12.4	12.9
Pigeon Bay		13.4	15.6	11.7	12.5	11.7	12.2	11.9	10.6	11.2	10.5	11.1
Flat Lake		11.7	15.0	8.8	11.4	8.8	10.6	8.4	7.3	9.0	7.0	8.8
Upper Belle R. No. 1		11.4	14.7	8.3	11.2	8.3	7.7	7.7	6.7	9.0	6.5	8.6
Upper Belle R. No. 2		9.8	13.0	6.9	9.8	6.9	6.7	6.5	5.4	7.7	5.1	7.4
West Atchafalaya Floodway												
Cleon	2730+00	18.0	18.2	17.2	17.7	17.2	17.2	17.2	15.8	16.1	15.2	15.6
Bayou Mersier	3246	18.2	18.4	17.8	18.1	17.8	17.8	18.0	16.6	16.9	16.4	16.8
Lower Grand Bayou	3937	17.5	18.4	14.3	15.6	15.9	14.6	14.8	11.8	13.4	11.8	13.4
Upper Grand Lake	4375	15.5	16.7	12.7	14.4	12.7	13.2	13.5	10.6	12.4	10.4	12.1
Charenton	4707	14.6	16.1	12.0	13.9	12.0	12.7	13.0	10.0	12.1	9.8	11.9
Six Mile Lake	5495	10.2	1.9	8.0	0.9	8.0	8.3	9.1	6.0	0.6	6.0	0.4
Calumet	111.1	7.6	2.2	5.4	1.3	5.4	5.8	6.4	4.3	0.7	4.2	0.8
Wax Lake Outlet	121.8	1.1	0.3	1.0	0.5	1.0	1.0	1.0	0.6	0.2	0.6	0.4

Table 3 (Concluded)

Gaging Station	1963 River Mile	Test 1		Test 2					Test 3		Test 4	
		A	B	A	B	C	D	E	A	B	A	B
West Atchafalaya Floodway Management Units												
Henderson Unit		19.6	19.3	17.4	17.8	17.4	17.4	17.4	16.1	16.5	15.4	16.0
Warner Lake Unit		24.4	24.6	--	21.2	--	--	--	--	--	--	--
Cocodrie Swamp		18.6	19.1	15.3	16.3	16.4	15.5	15.8	14.0	14.2	14.0	14.2
Beau Bayou		17.8	18.5	14.4	15.6	16.3	14.7	15.0	12.2	13.4	12.2	13.2
Buffalo Swamp		16.5	17.5	13.2	15.0	13.2	13.6	13.8	10.8	12.8	10.6	12.6
Lower Buffalo Cove		14.5	16.1	12.1	13.9	12.1	12.6	13.0	10.0	12.1	9.9	12.0

NOTE:

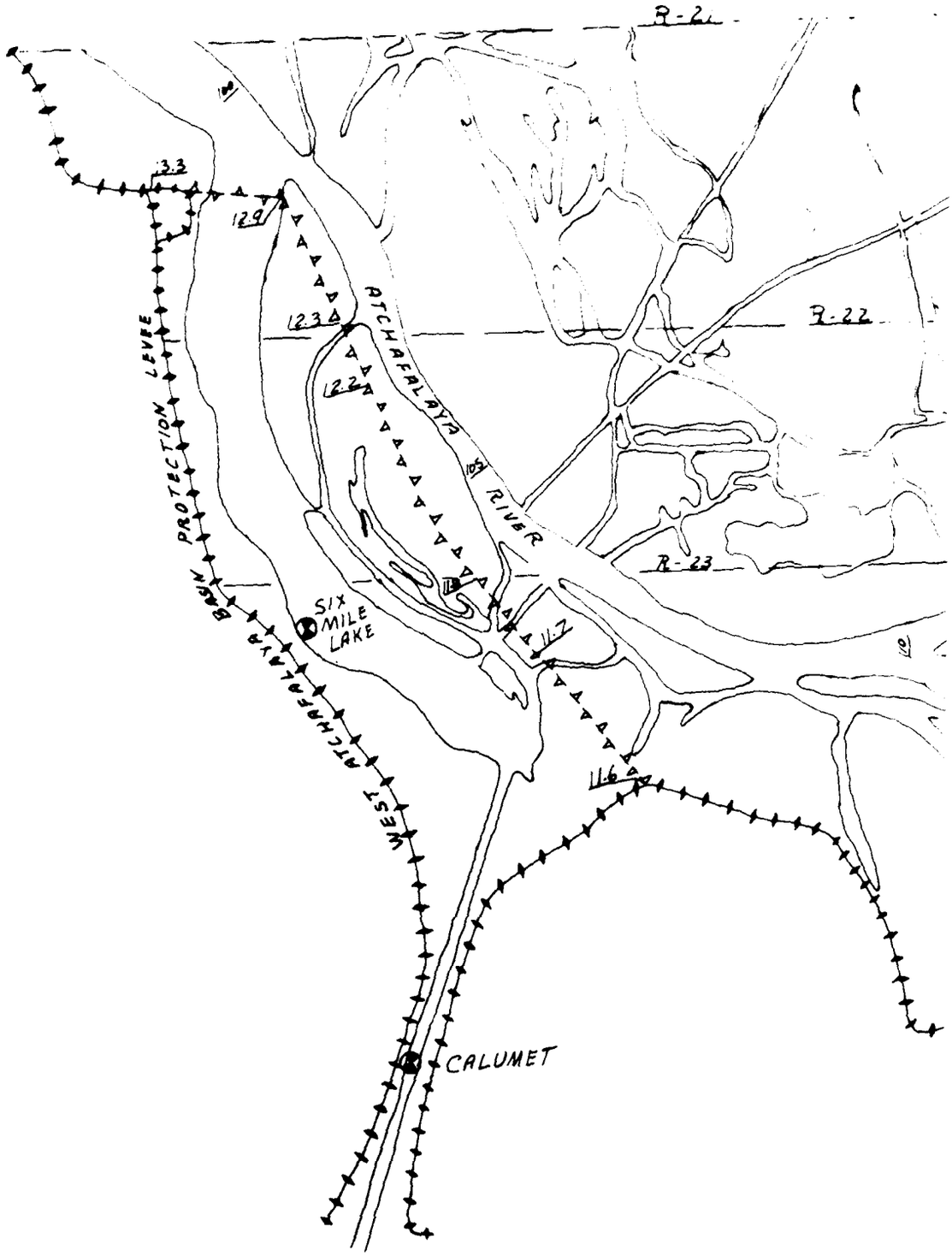
1. Water-surface elevations are in ft msl.
2. Wax Lake Outlet - Open as during the 1973 flood with approximately 30% of the Atchafalaya River Basin flow passing Calumet, LA.
   - Closed by a levee to an elevation that contained a flow of 500,000 cfs but was overtopped with a flow of 600,000 cfs. See Plate 2 for levee location and grade.
3. East and West Atchafalaya gages are located along the levees.
4. Management Unit gages are located about the center of the East and West Floodway.
5. -- Denotes no water at the gage.



LOCATION MAP

ATCHAFALAYA RIVER

PLATE 1

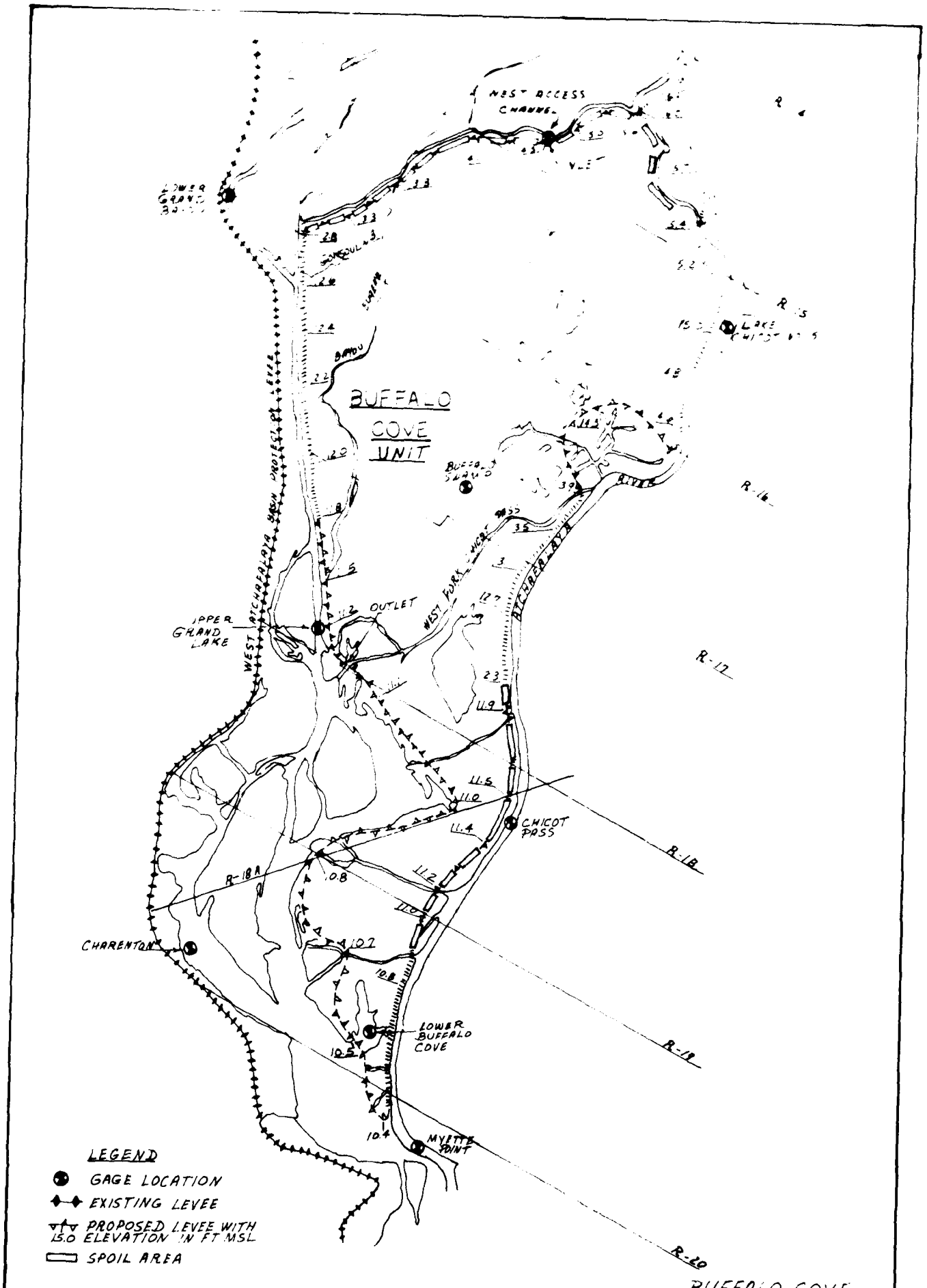


LEGEND

- GAGE LOCATION
- EXISTING LEVEE
- WAX LAKE OUTLET CLOSURE
- 11.6 WITH ELEVATION IN FT. MSL

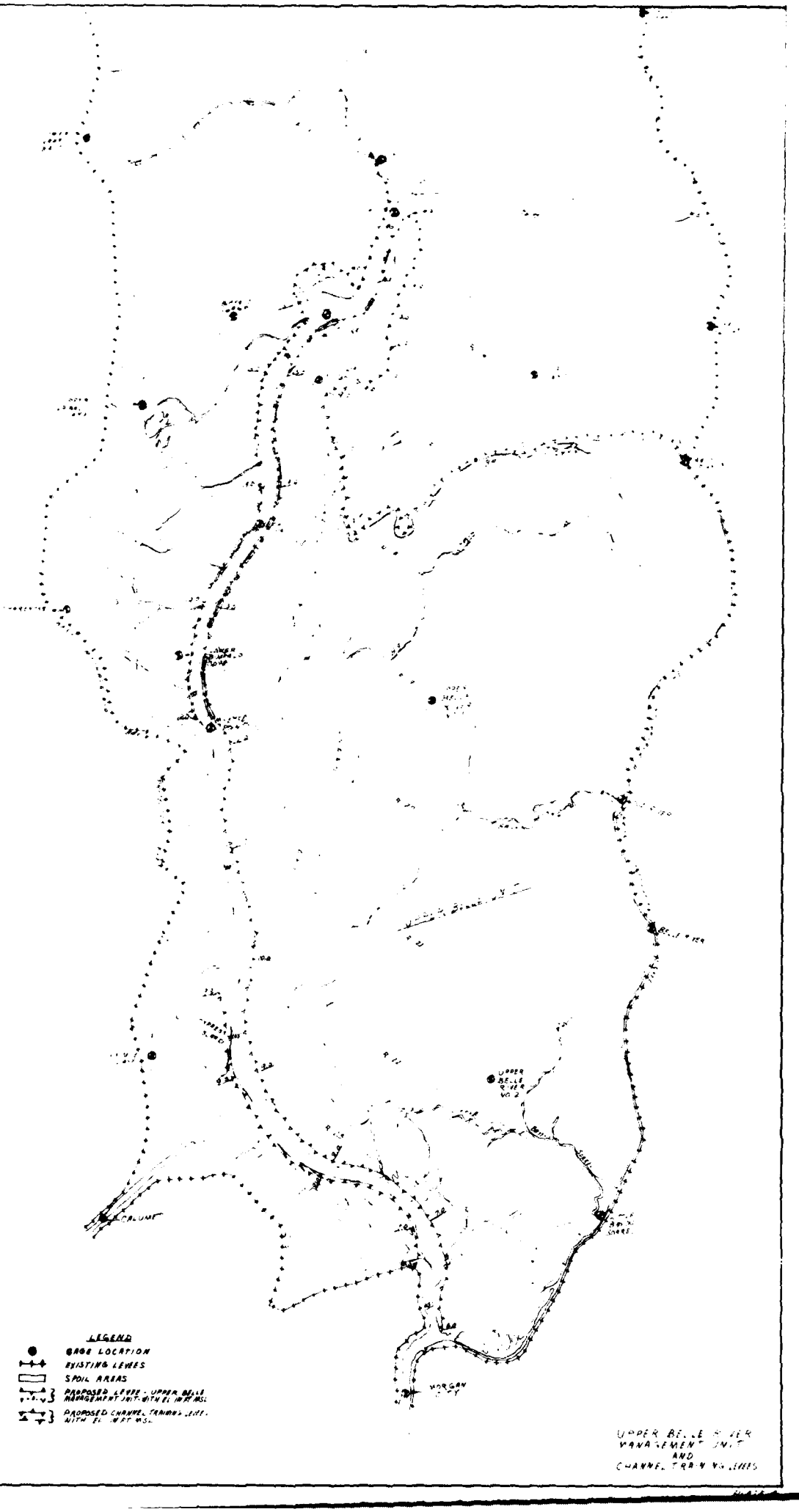
CLOSURE
WAX LAKE OUTLET

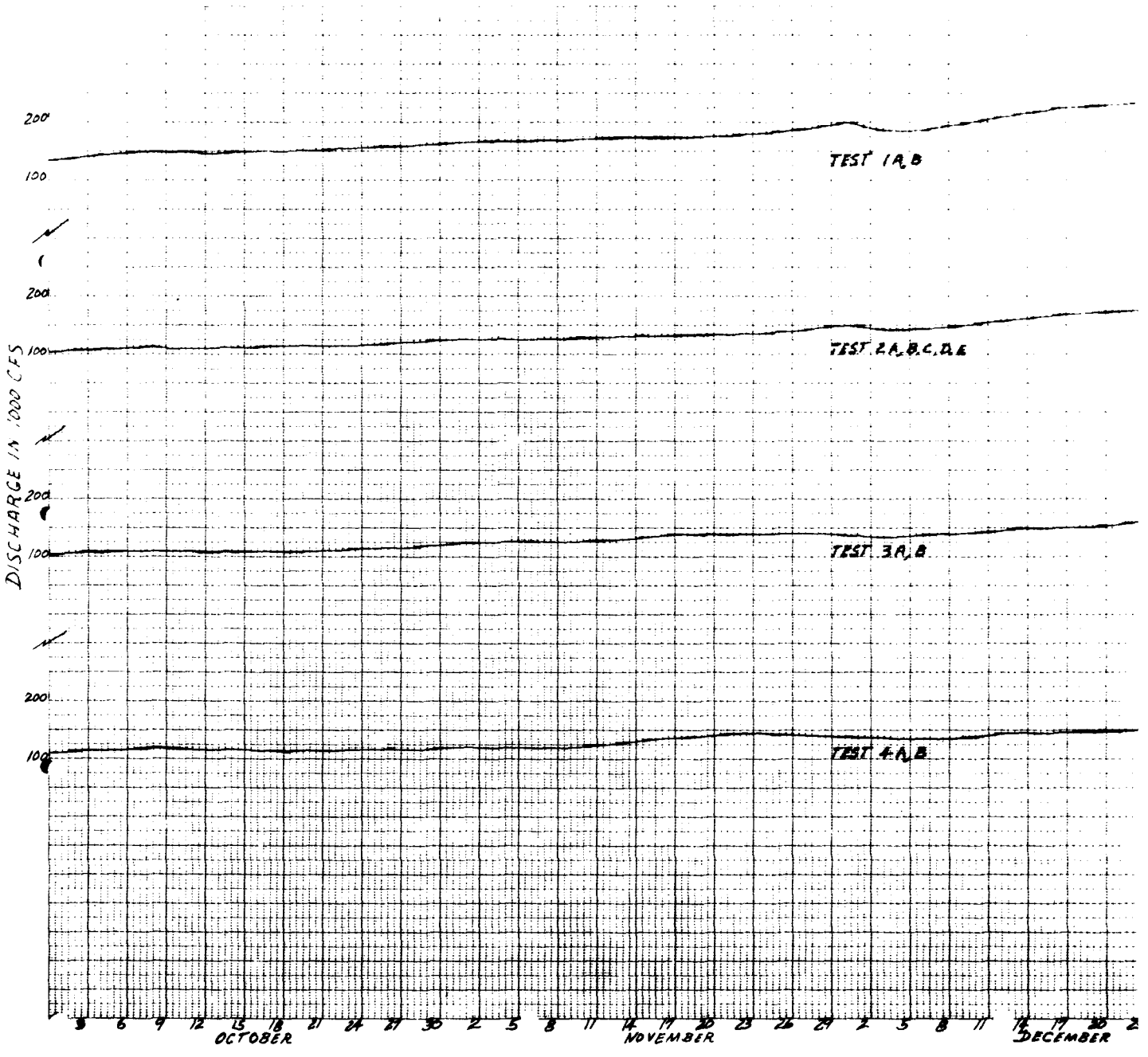
PLATE 2

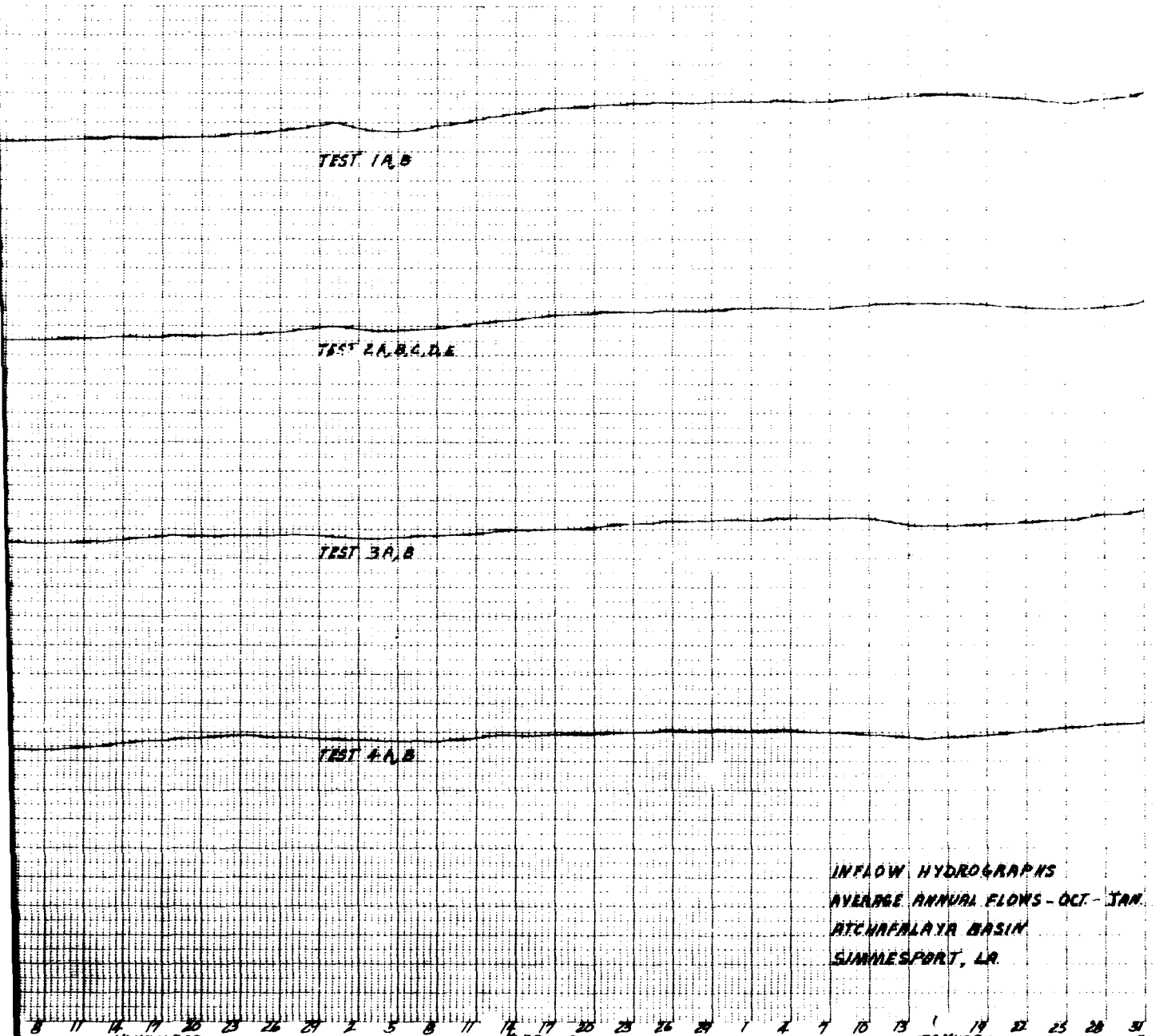


BUFFALO COVE MANAGEMENT UNIT

PLATE 3

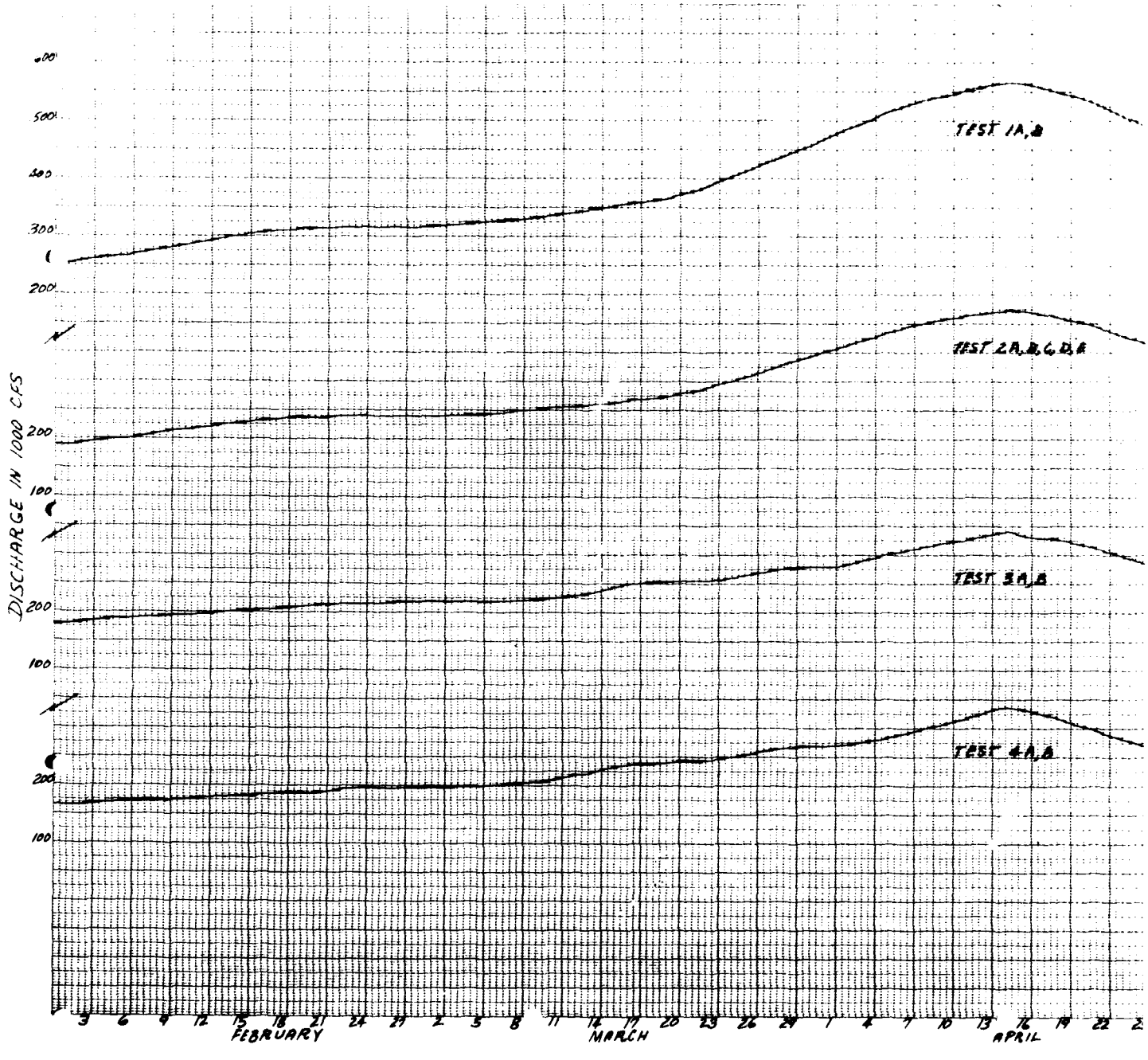

LEGEND
GAGE LOCATION
EXISTING LEVEES
SPOIL AREAS
PROPOSED LEVEE - UPPER BELLE MANAGEMENT UNIT WITH EL 10 FT MSL
PROPOSED CHANNEL TRAINING LEVEE WITH EL 10 FT MSL
UPPER BELLE RIVER MANAGEMENT UNIT AND CHANNEL TRAINING LEVEES

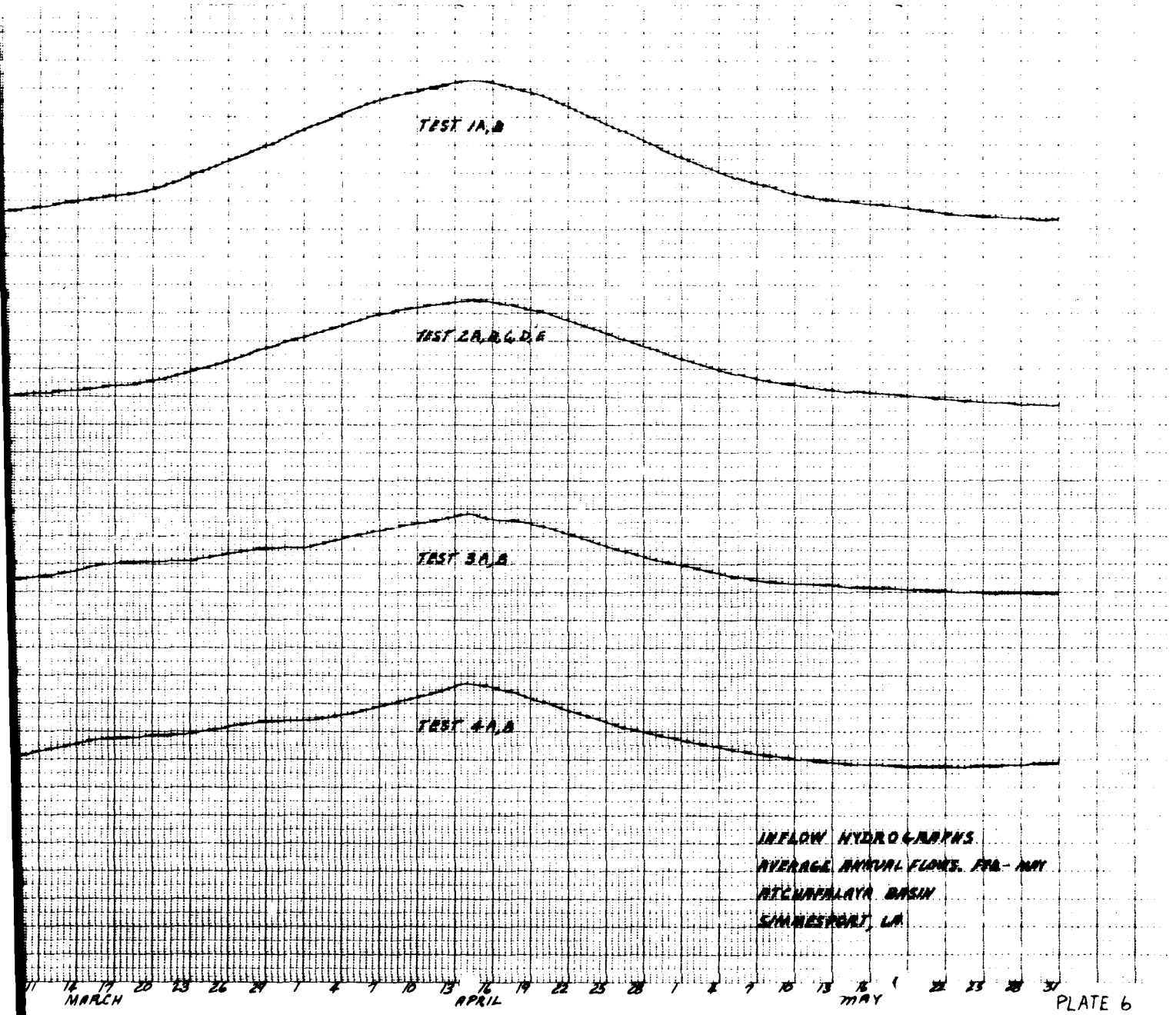

DISCHARGE IN 1000 CFS
200
100
TEST 1A, B
200
100
TEST 2A, B, C, D, E
200
100
TEST 3A, B
200
100
TEST 4A, B
OCTOBER
NOVEMBER
DECEMBER



INFLOW HYDROGRAPHS
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN
SIMMESPORT, LA.

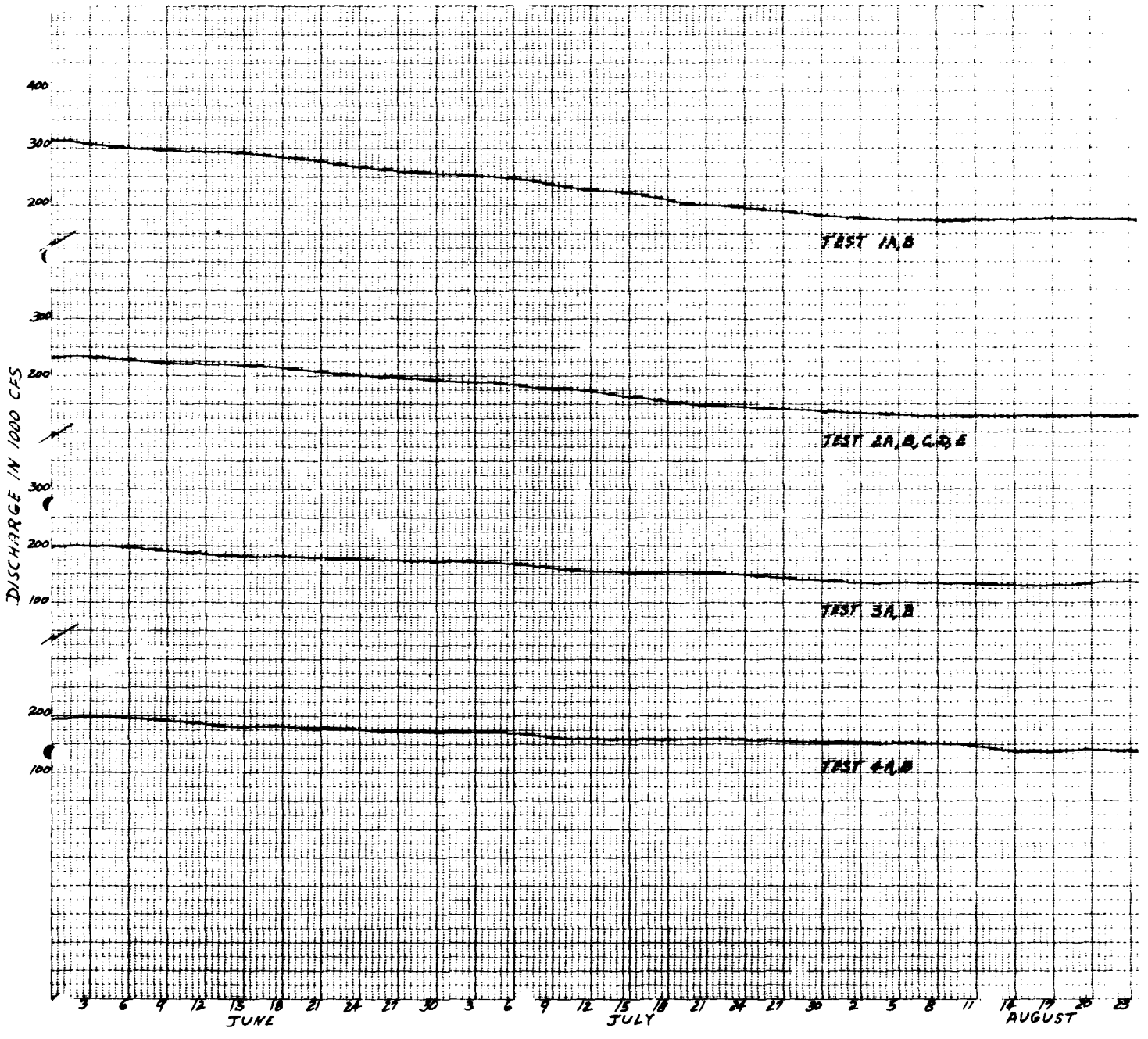
PLATE 5


DISCHARGE IN 1000 CFS
600
500
400
300
200
200
100
200
100
200
100
TEST 1A, B
TEST 2A, B, C, D, E
TEST 3A, B
TEST 4A, B
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL



INFLOW HYDROGRAPHS
AVERAGE ANNUAL FLOWS, FEB - MAY
ATCHAFALAYA BASIN
SIMMESPORT, LA.

PLATE 6


DISCHARGE IN 1000 CFS
400
300
200
100
TEST 1A, B
TEST 2A, B, C, D, E
TEST 3A, B
TEST 4A, B
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20 23
AUGUST

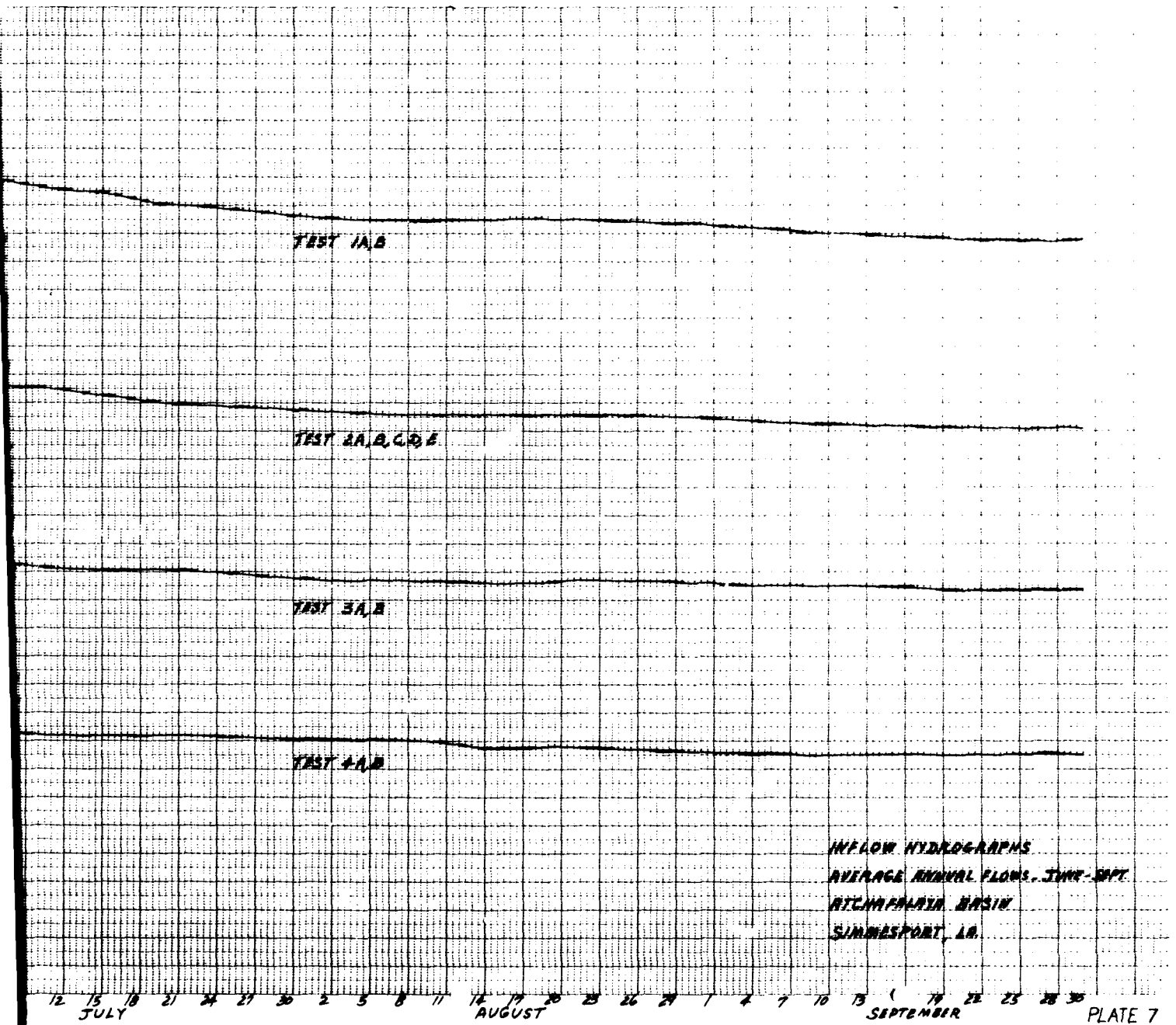
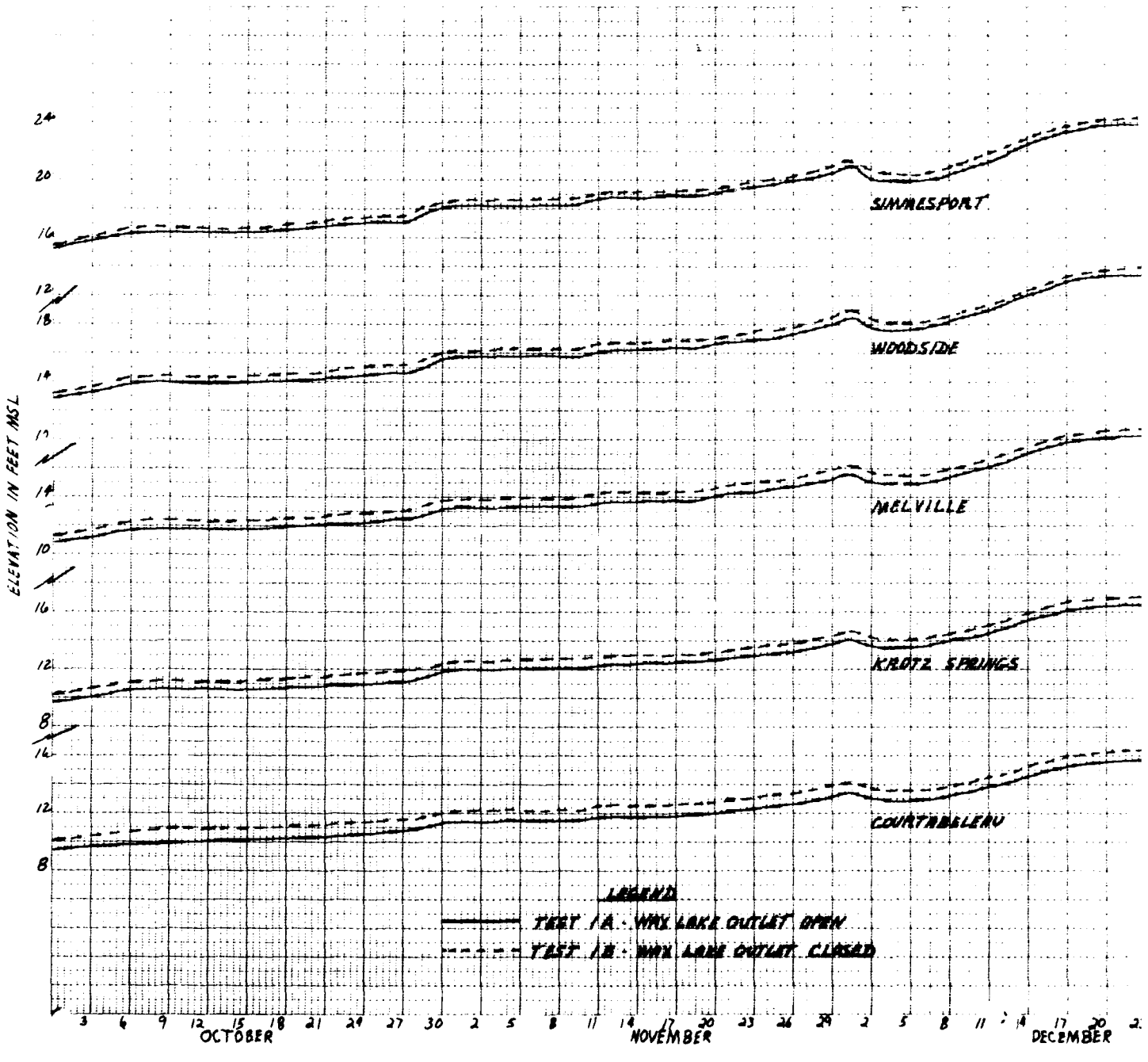

TEST 1A, B
TEST 2A, B, C, D, E
TEST 3A, B
TEST 4A, B
INFLOW HYDROGRAPHS
AVERAGE ANNUAL FLOWS, JUNE-SEPT.
RICHMOND BASIN
SIMMESPORT, LA.
12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
JULY
AUGUST
SEPTEMBER

PLATE 7


ELEVATION IN FEET MSL
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABLEAU
LEGEND
TEST 1A - WHX LAKE OUTLET OPEN
TEST 1B - WHX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

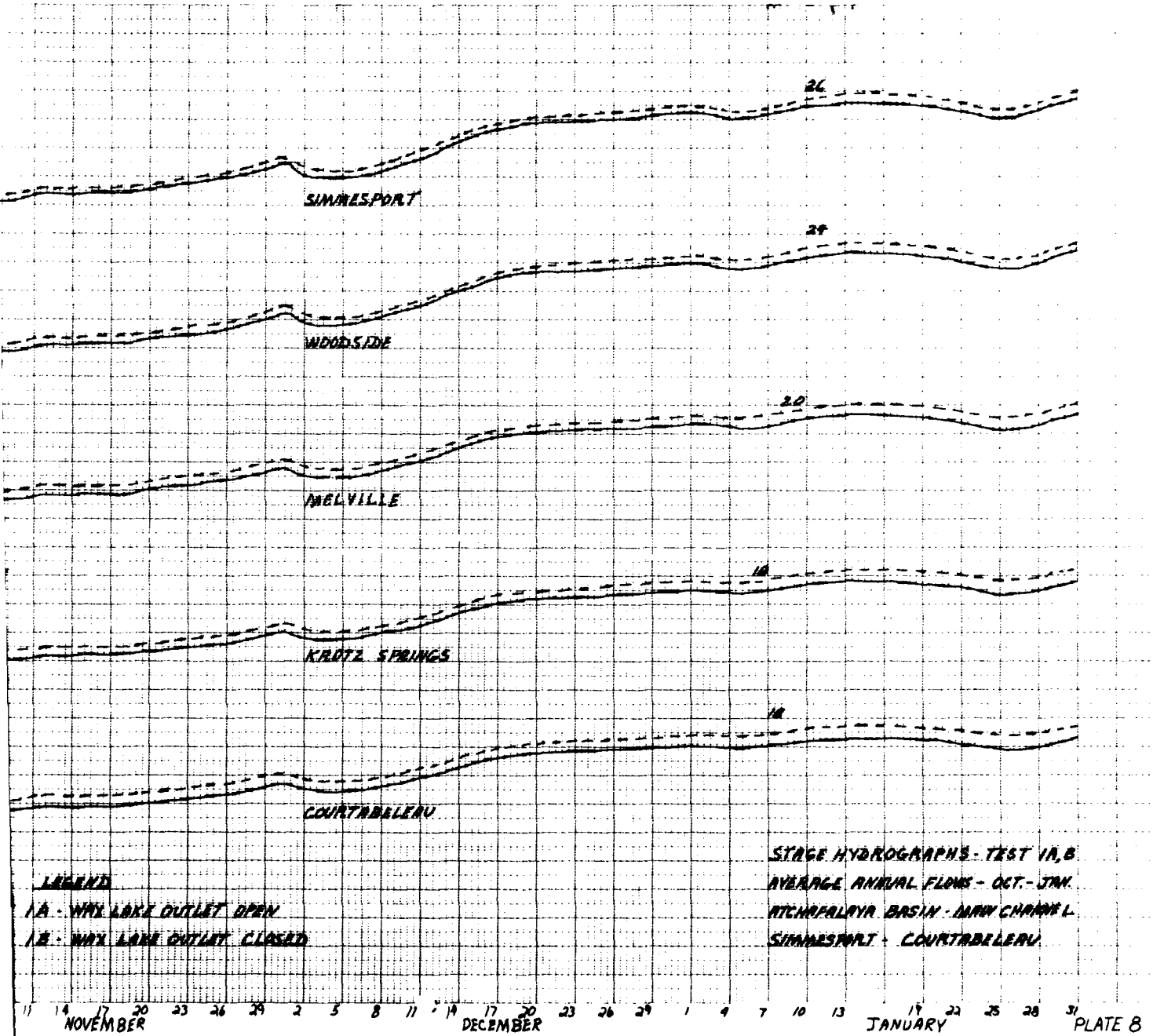
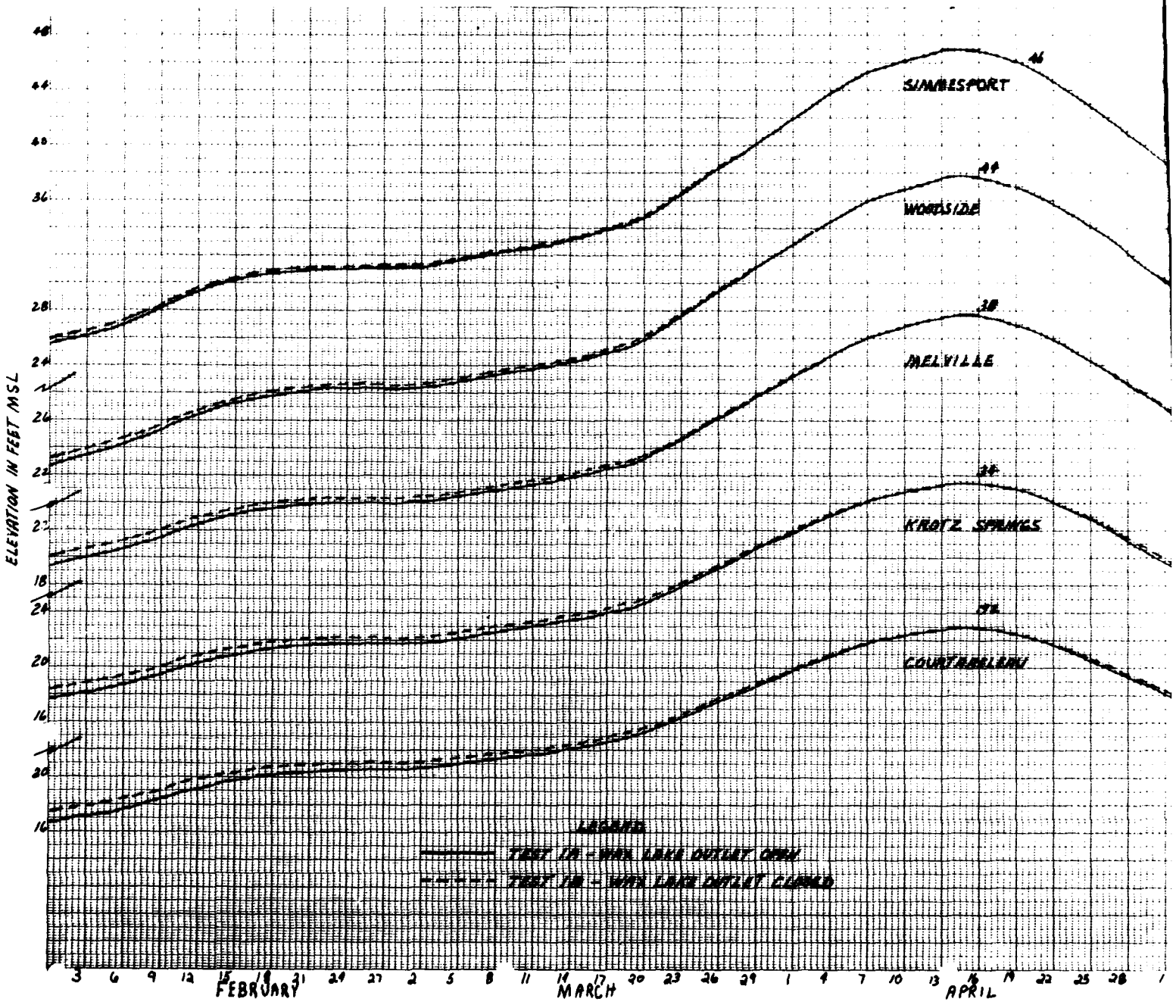

26
SIMMESPORT
24
WOODSIDE
20
MELVILLE
18
KROTZ SPRINGS
18
COURTABLEAU
LEGEND
1A - WAX LAKE OUTLET OPEN
1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABLEAU
11 14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 8


ELEVATION IN FEET MSL
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABLEAU
LEGEND
TEST 1B - WHITE LAKE OUTLET OPEN
TEST 1B - WHITE LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

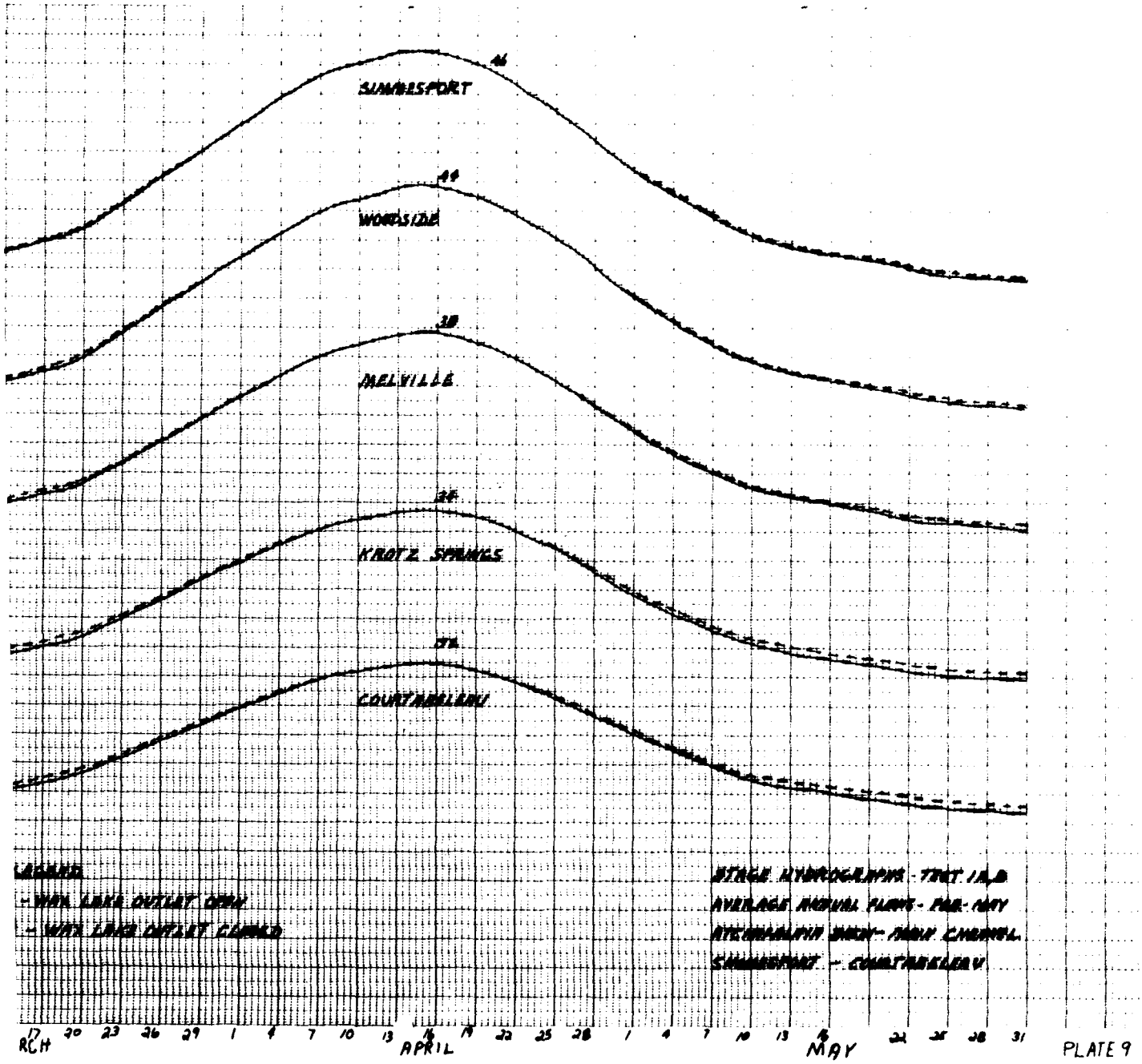
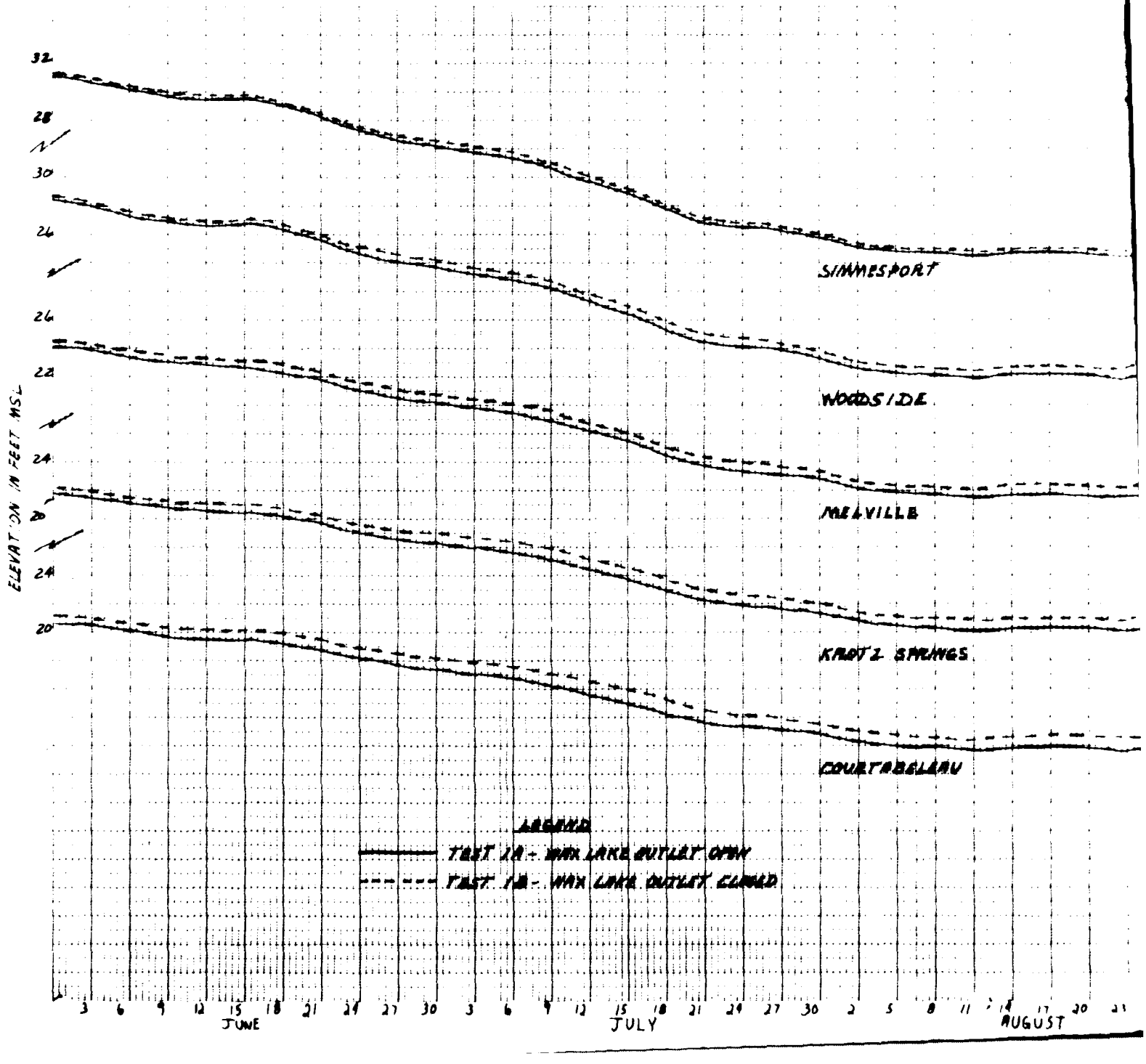

46
SUMMERSPORT
44
WOODSIDE
38
MELVILLE
26
KRATZ SPRINGS
24
COURTADELLAU
LEGEND
- WITH LAKE OUTLET OPEN
- WITH LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1 & 2
AVERAGE ANNUAL FLOWS - FOR MAY
HYDROGRAPH BASIS - ANNUAL CHANNEL
SUMMERSPORT - COURTADELLAU
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 21 25 28 31
APRIL
MAY

PLATE 9


ELEVATION IN FEET MSL
32
28
30
26
26
22
24
20
24
20
SIMMESPORT
WOODSIDE
MELVILLE
KRATZ SPRINGS
COURTABLEAU
LEGEND
TEST 1A - MAIN LAKE OUTLET OPEN
TEST 1B - MAIN LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23
JUNE
JULY
AUGUST

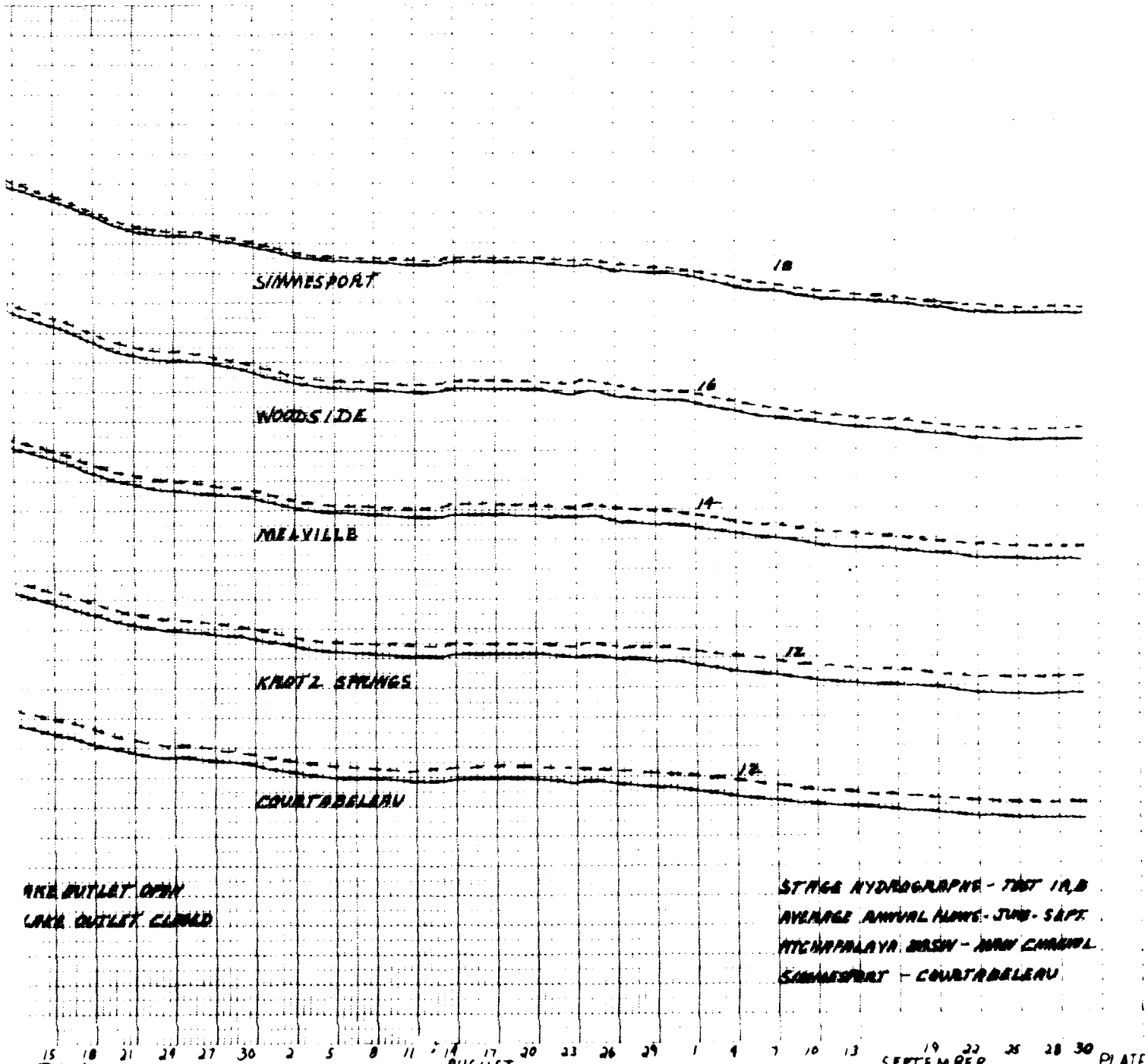
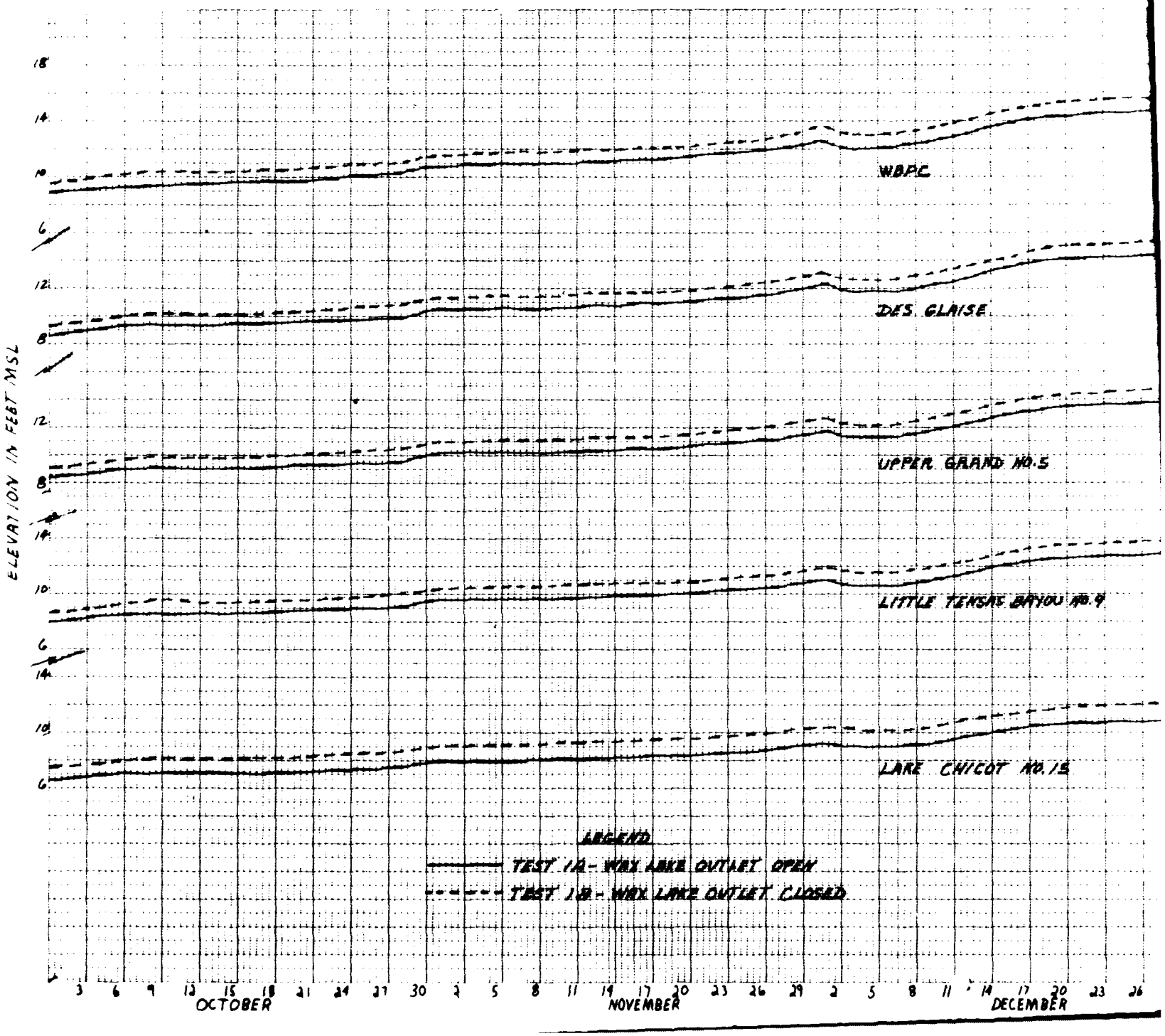

SIMMESPORT
18
WOODSIDE
16
MELVILLE
14
KRAOTZ SPRINGS
12
COURTABELEAU
LAKE OUTLET OPEN
LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 10


ELEVATION IN FEET MSL
WBPC
DES GLAISE
UPPER GRAND NO.5
LITTLE TENSAS BAYOU NO.9
LAKE CHICOT NO.15
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

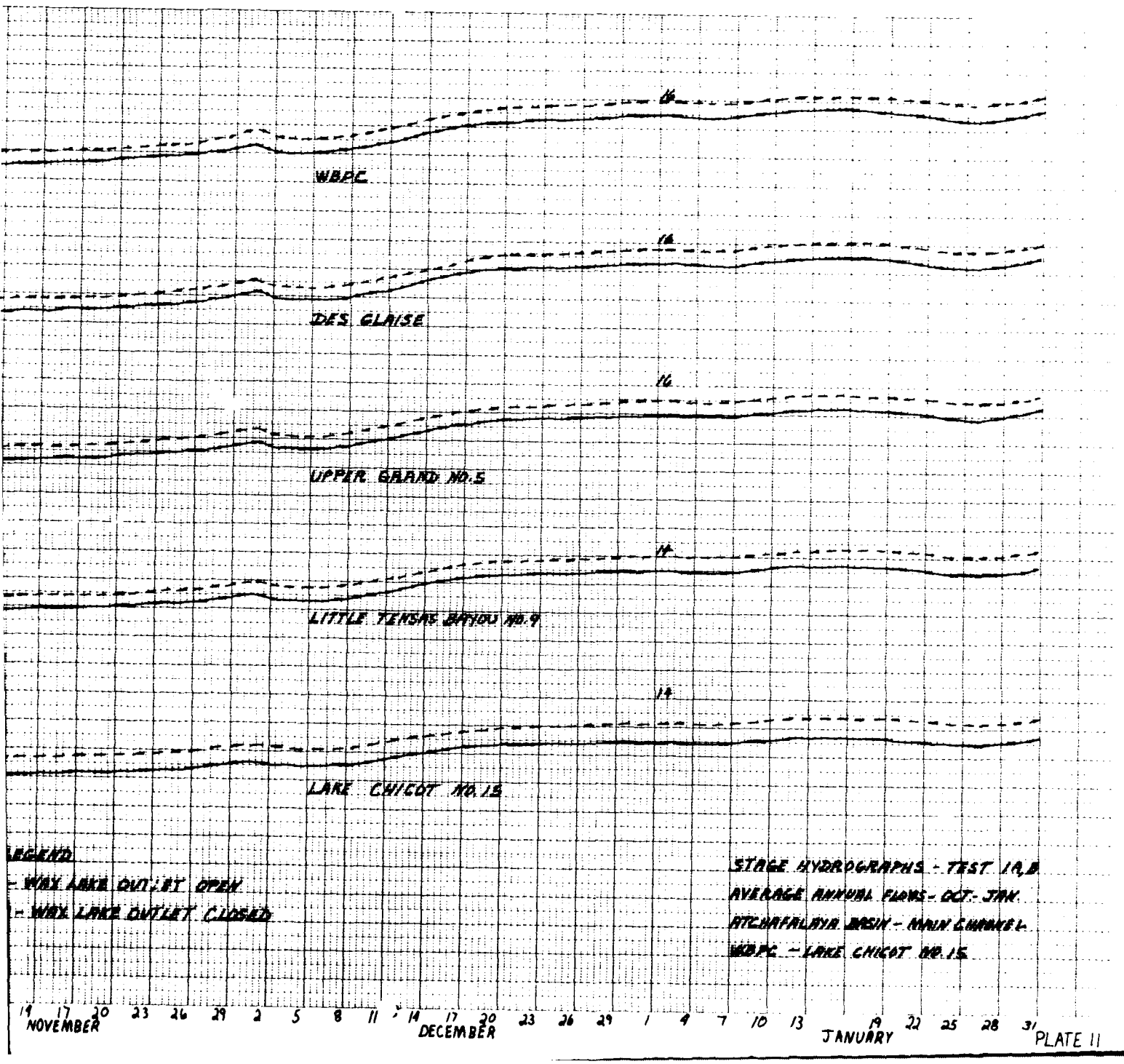
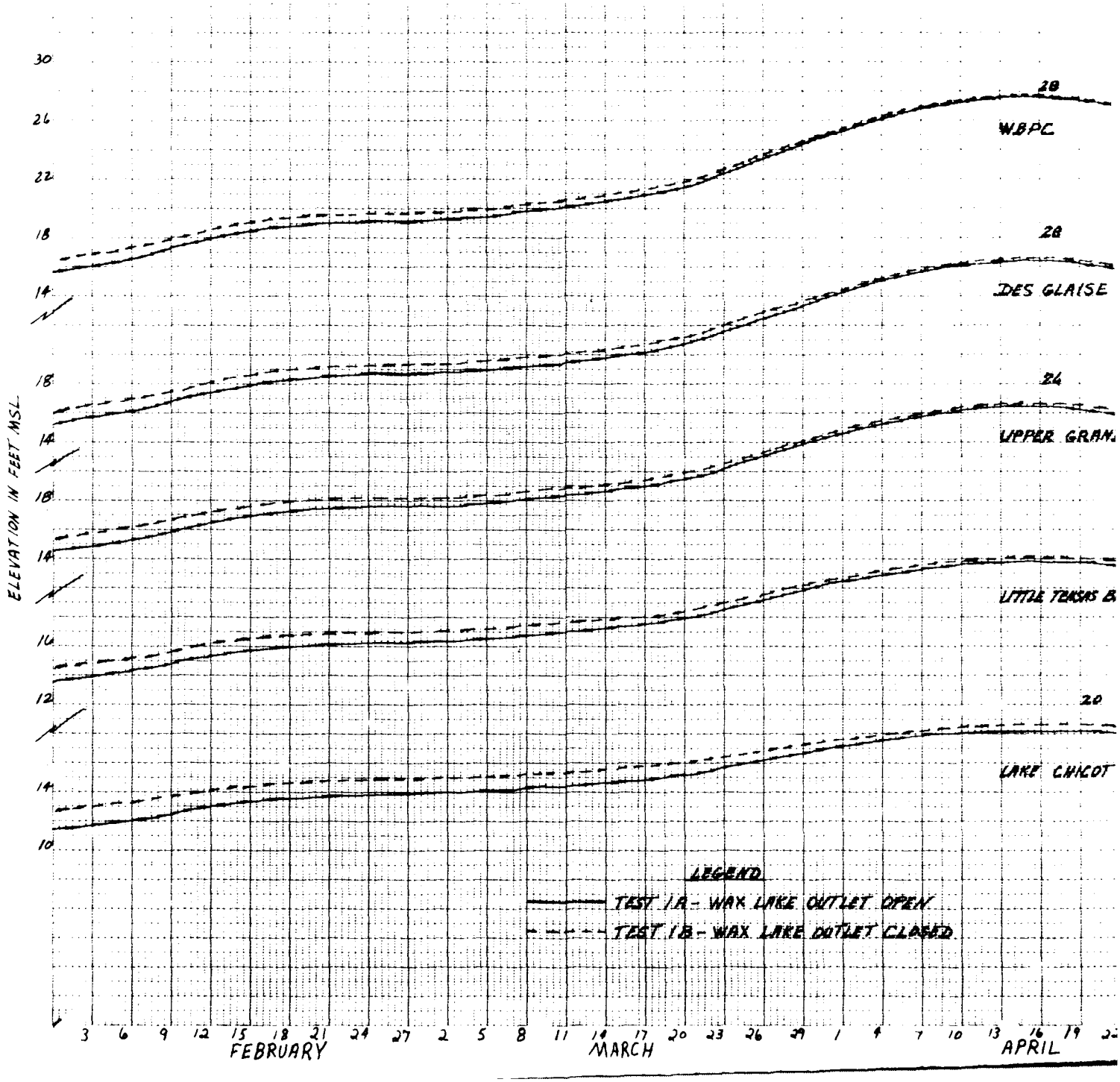

WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO. 9
LAKE CHICOT NO. 15
NOVEMBER
DECEMBER
JANUARY
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT - JAN.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15

PLATE 11


ELEVATION IN FEET MSL
30
26
22
18
14
18
14
18
14
10
12
14
10
28
WBPC
28
DES GLAISE
24
UPPER GRAN.
LITTLE TEXAS B.
20
LAKE CHICOT
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19
FEBRUARY
MARCH
APRIL

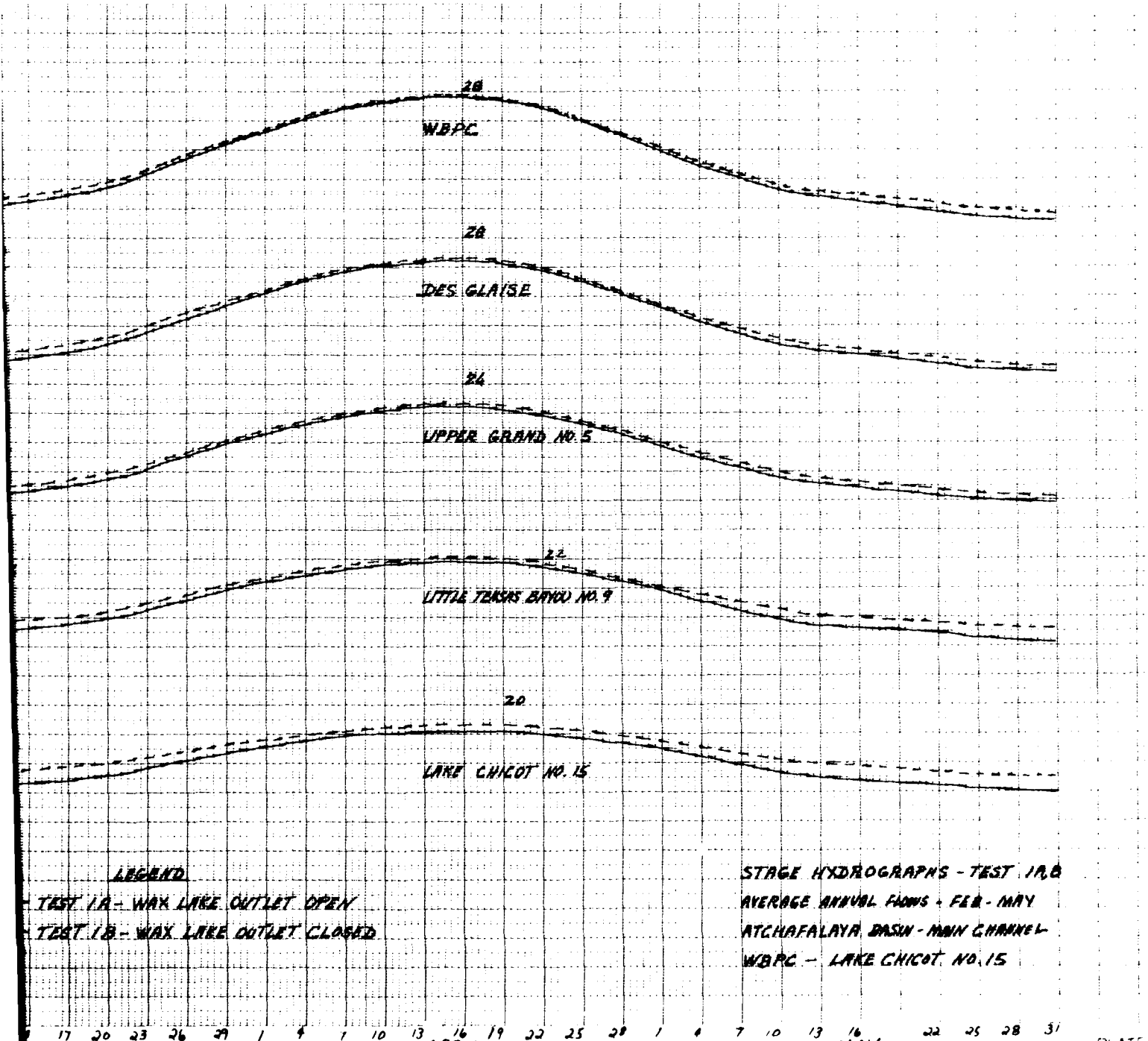
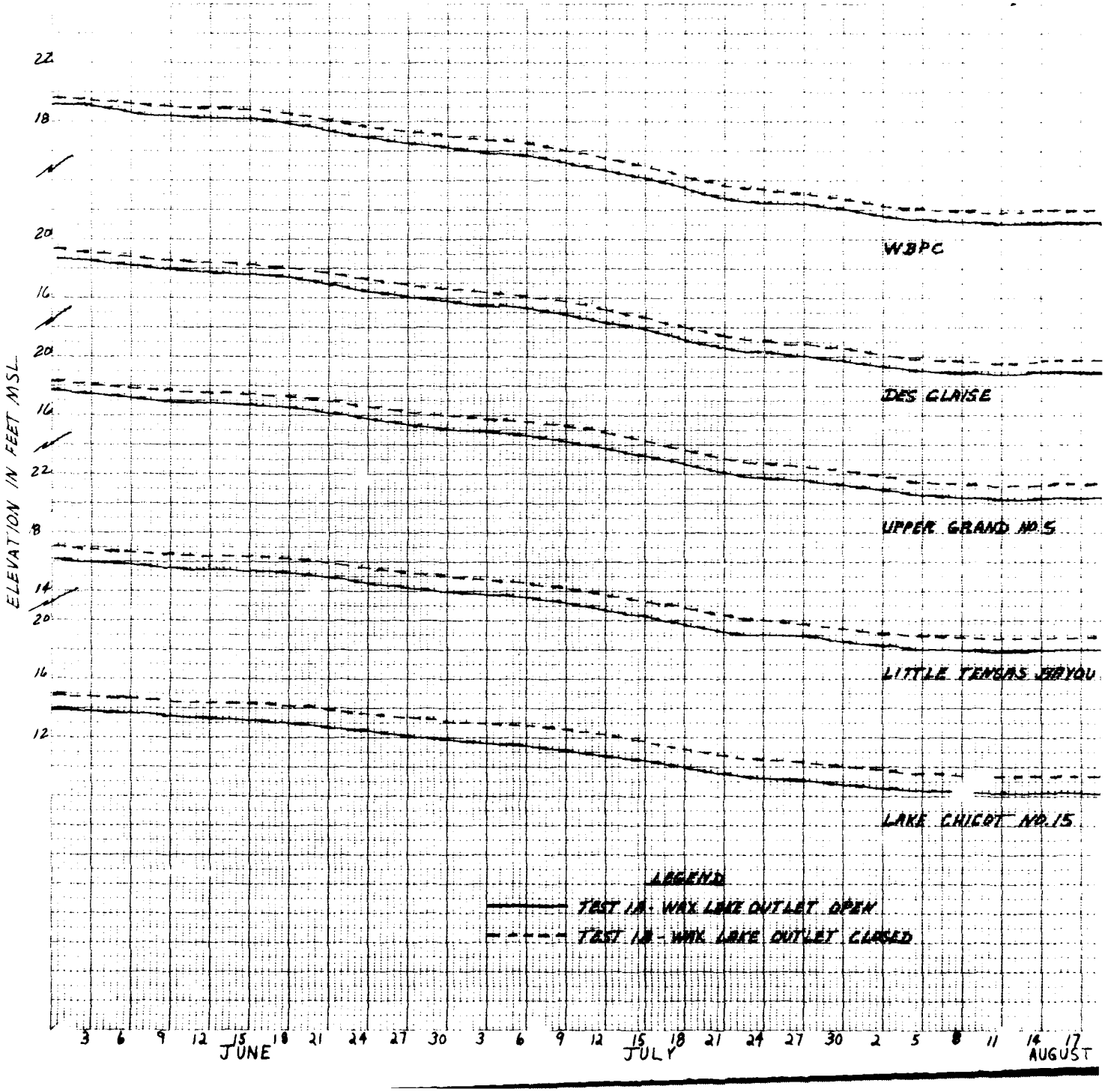

28
WBPC
26
DES GLAISE
24
UPPER GRAND NO. 5
22
LITTLE TEXAS BAYOU NO. 9
20
LAKE CHICOT NO. 15
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS + FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
MARCH
APRIL
MAY

PLATE 12


ELEVATION IN FEET MSL
22
18
20
16
20
16
22
18
14
20
16
12
WBPC
DES GLAISE
UPPER GRAND NO.5
LITTLE TENSAS BAYOU
LAKE CHICOT NO.15
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

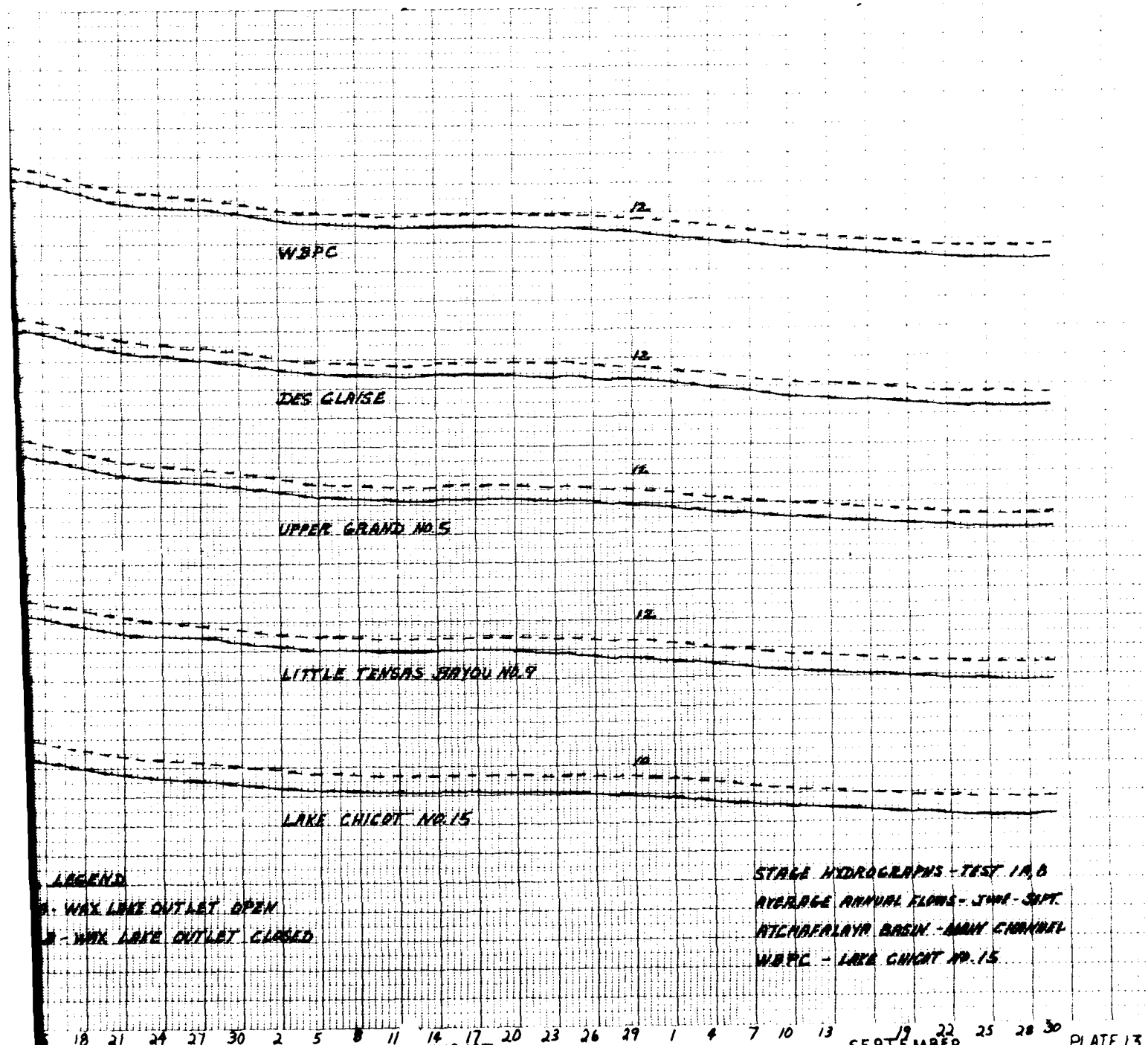
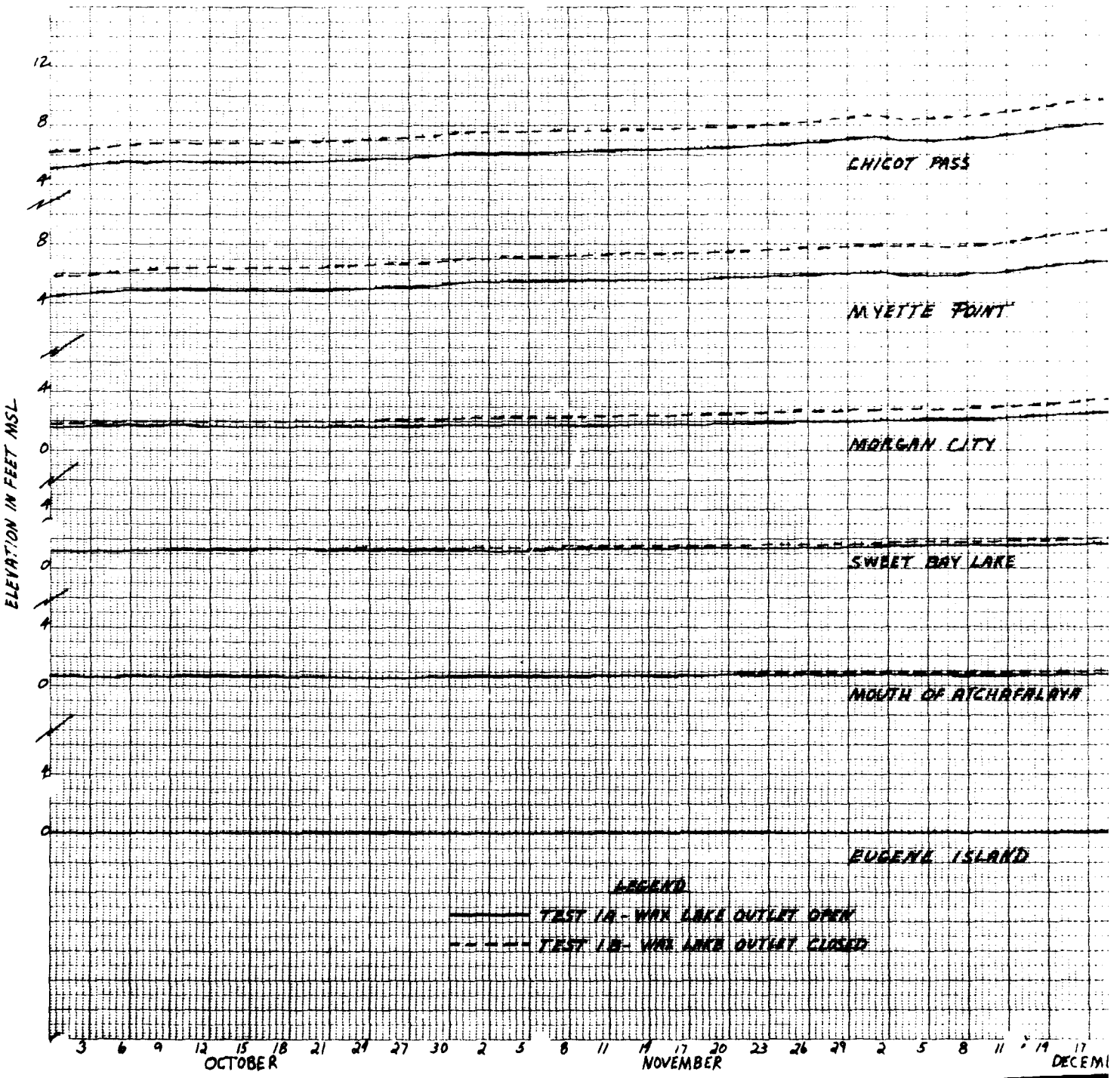

12.
WBPC
12.
DES GLAISE
12.
UPPER GRAND NO.5
12.
LITTLE TENSAS BAYOU NO.9
12.
LAKE CHICOT NO.15
LEGEND
A - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
6 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
ULY
AUGUST
SEPTEMBER

PLATE 13


ELEVATION IN FEET MSL
12
8
4
8
4
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMI

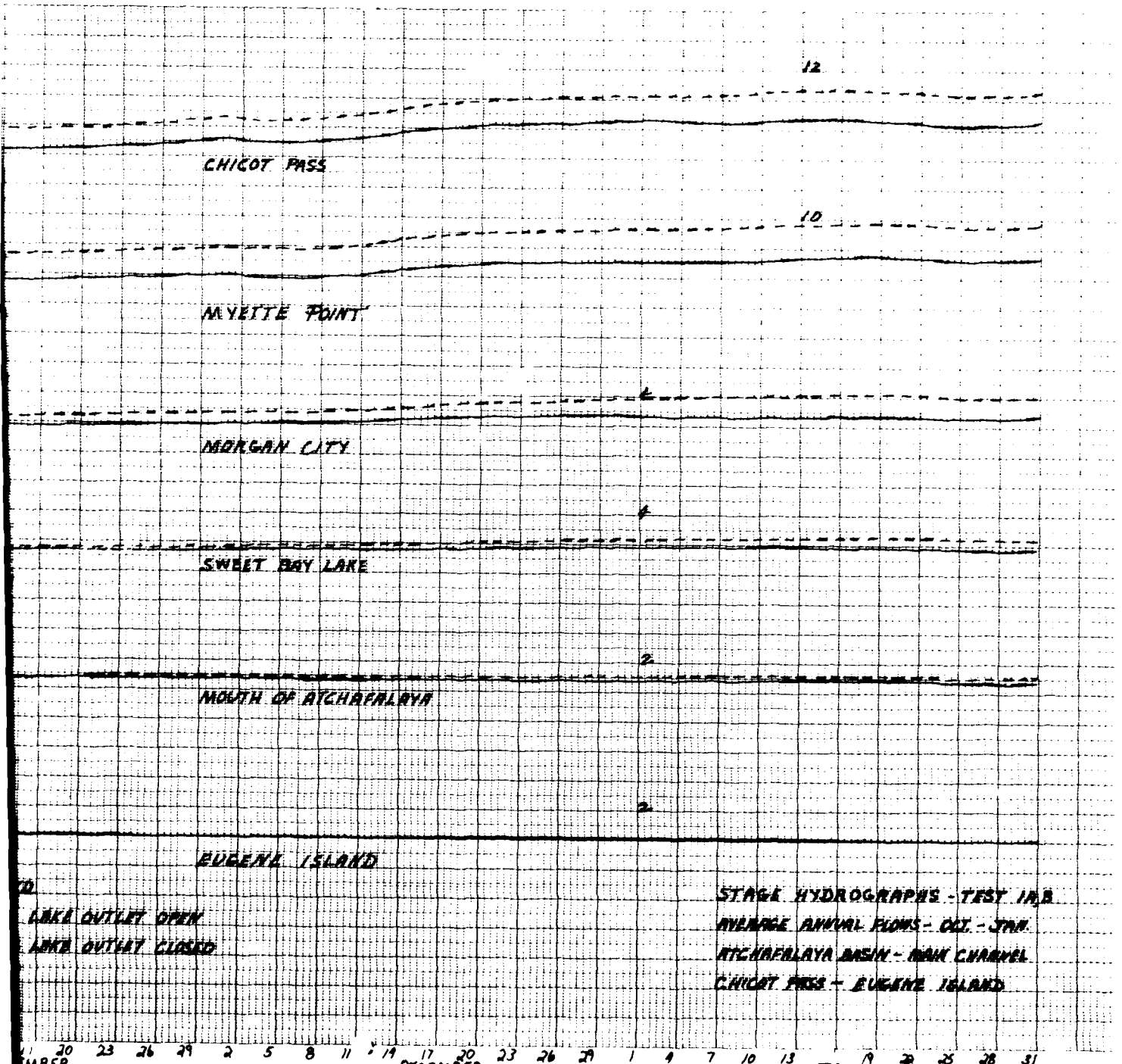
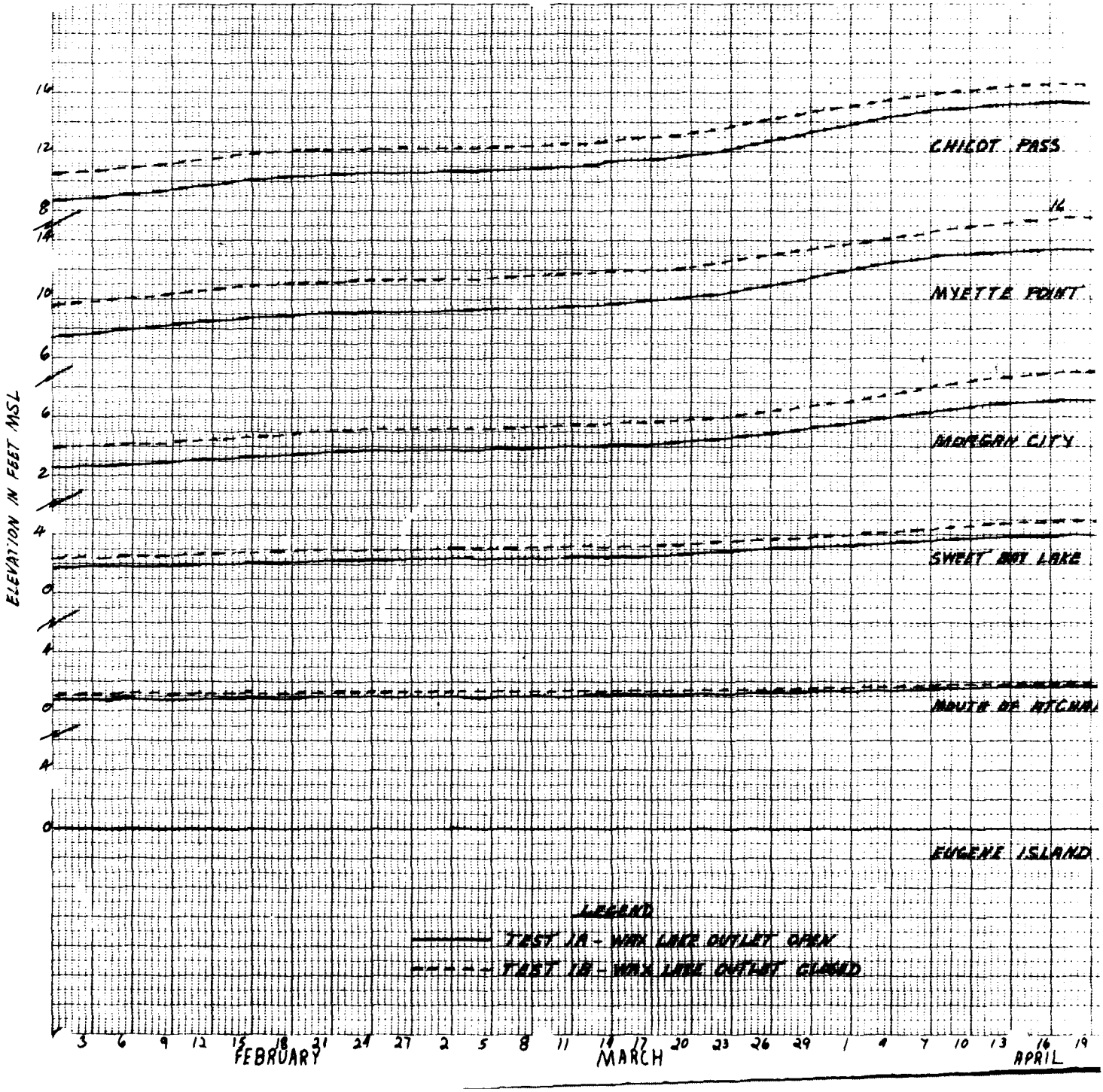

12
CHICOT PASS
10
MYETTE POINT
4
MORGAN CITY
4
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
2
EUGENE ISLAND
LAKE OUTLET OPEN
LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST IA,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
DECEMBER
JANUARY

PLATE 14


ELEVATION IN FEET MSL
CHILOT PASS
MYETTE POINT
MORGAN CITY
SWEET MOT LAKE
MOUTH OF ATCHA
EUGENE ISLAND
LEGEND
TEST 1A - WHX LAKE OUTLET OPEN
TEST 1B - WHX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

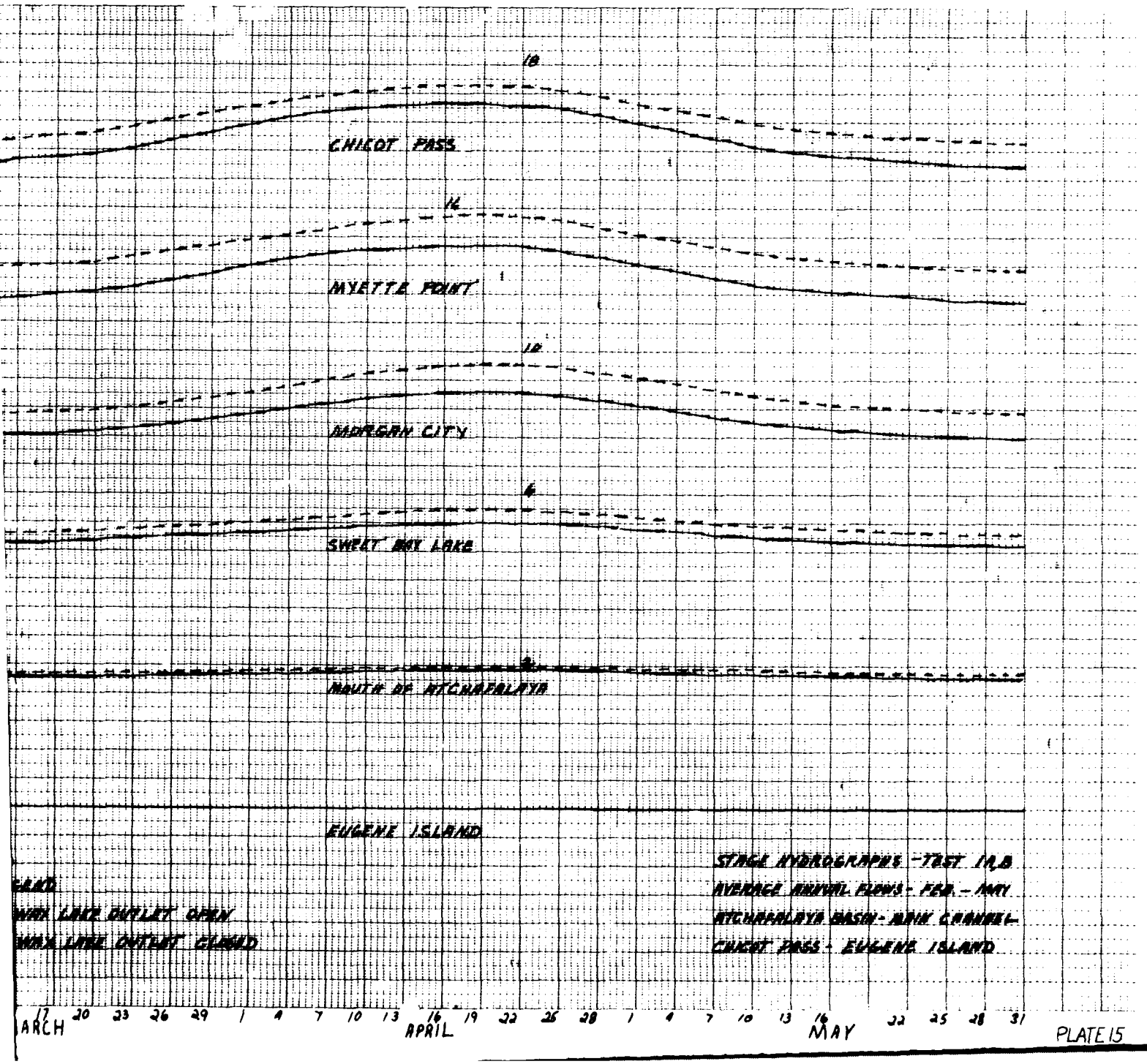
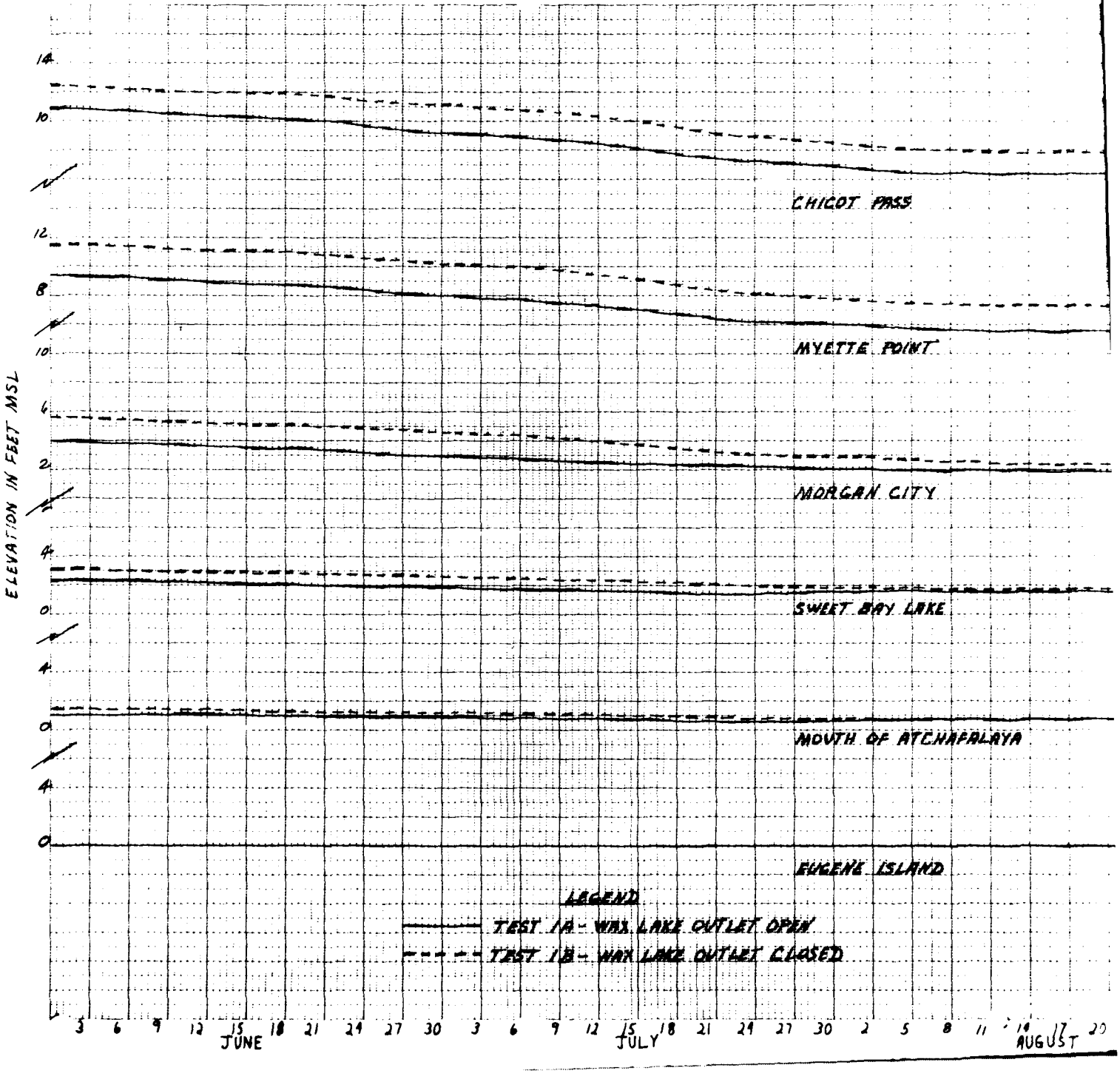
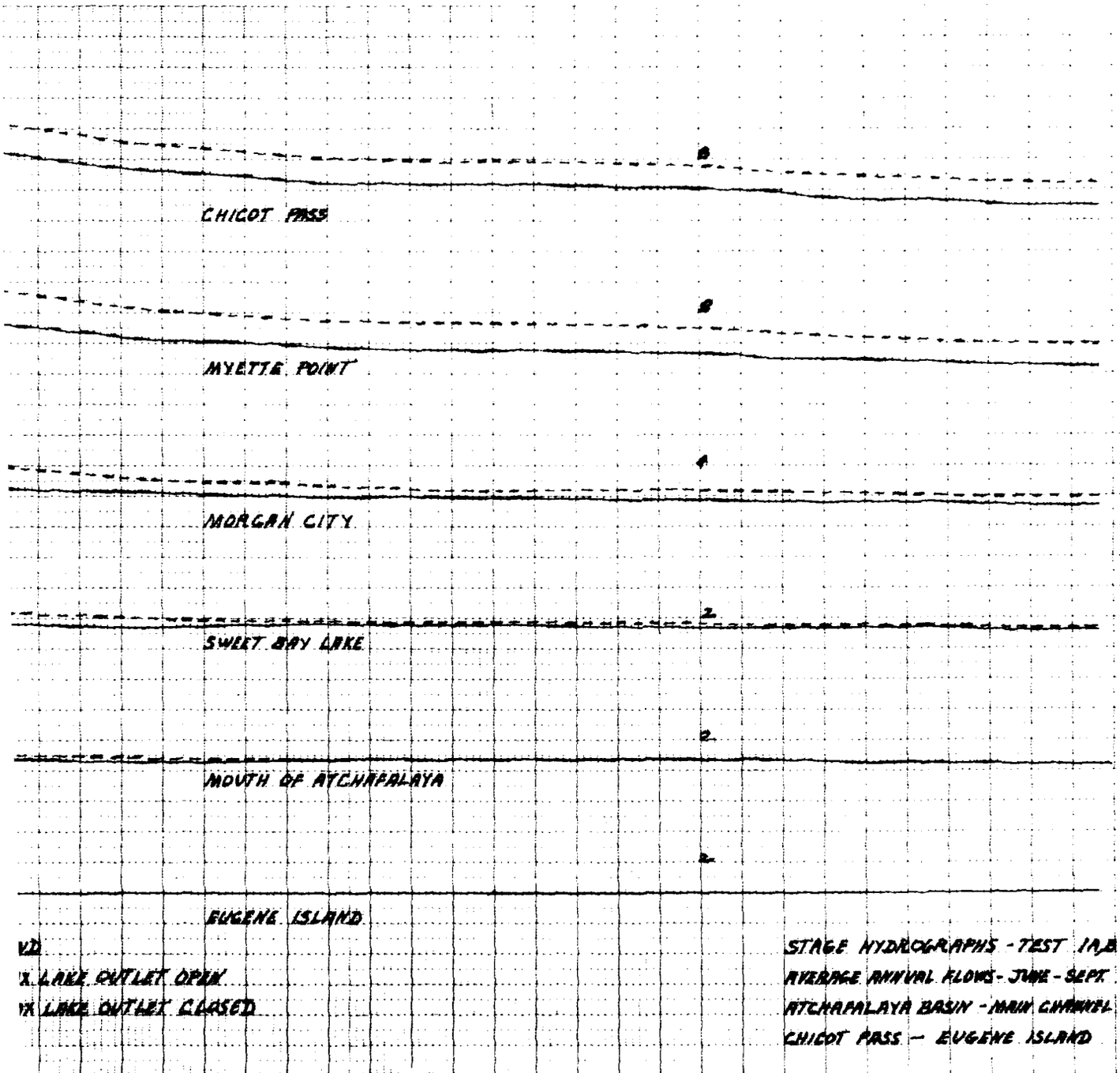

10
CHILCOT PASS
14
MYETTE POINT
10
MORGAN CITY
4
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
STAGE HYDROGRAPHS - TEST 14,B
AVERAGE ARRIVAL FLOWS - FEB. - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL -
CHILCOT PASS - EUGENE ISLAND
GRAND
MAIN LAKE OUTLET OPEN
MAIN LAKE OUTLET CLOSED
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
ARCH
APRIL
MAY

PLATE 15


ELEVATION IN FEET MSL
14
10
12
8
10
6
2
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST



VD

X LAKE OUTLET OPEN

IX LAKE OUTLET CLOSED

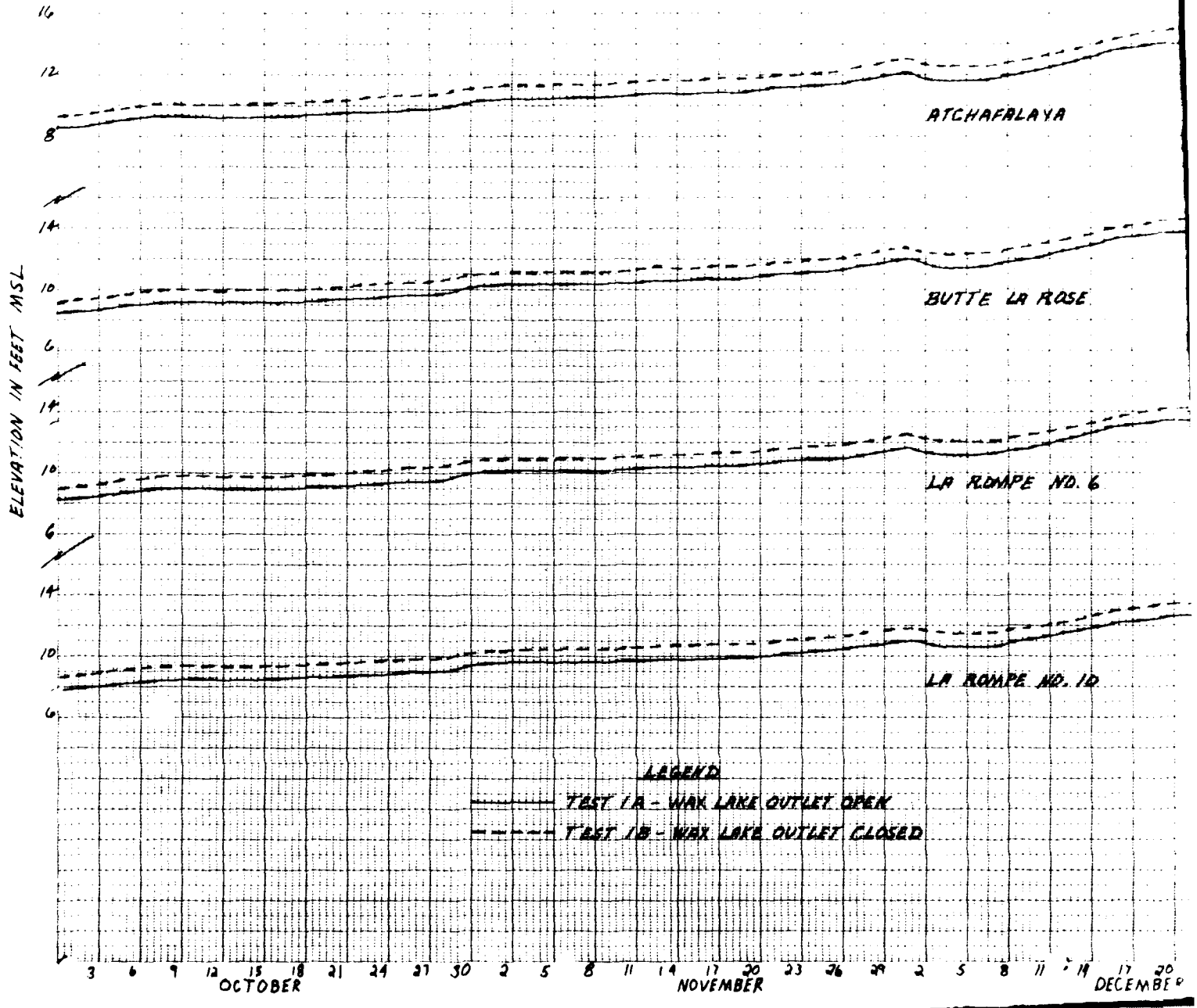
STAGE HYDROGRAPHS - TEST 1A,B

AVERAGE ANNUAL FLOWS - JUNE - SEPT.

ATCHAFALAYA BASIN - MAIN CHANNEL

CHICOT PASS — EUGENE ISLAND

PLATE 16


ELEVATION IN FEET MSL
16
12
8
14
10
6
14
10
6
14
10
6
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER

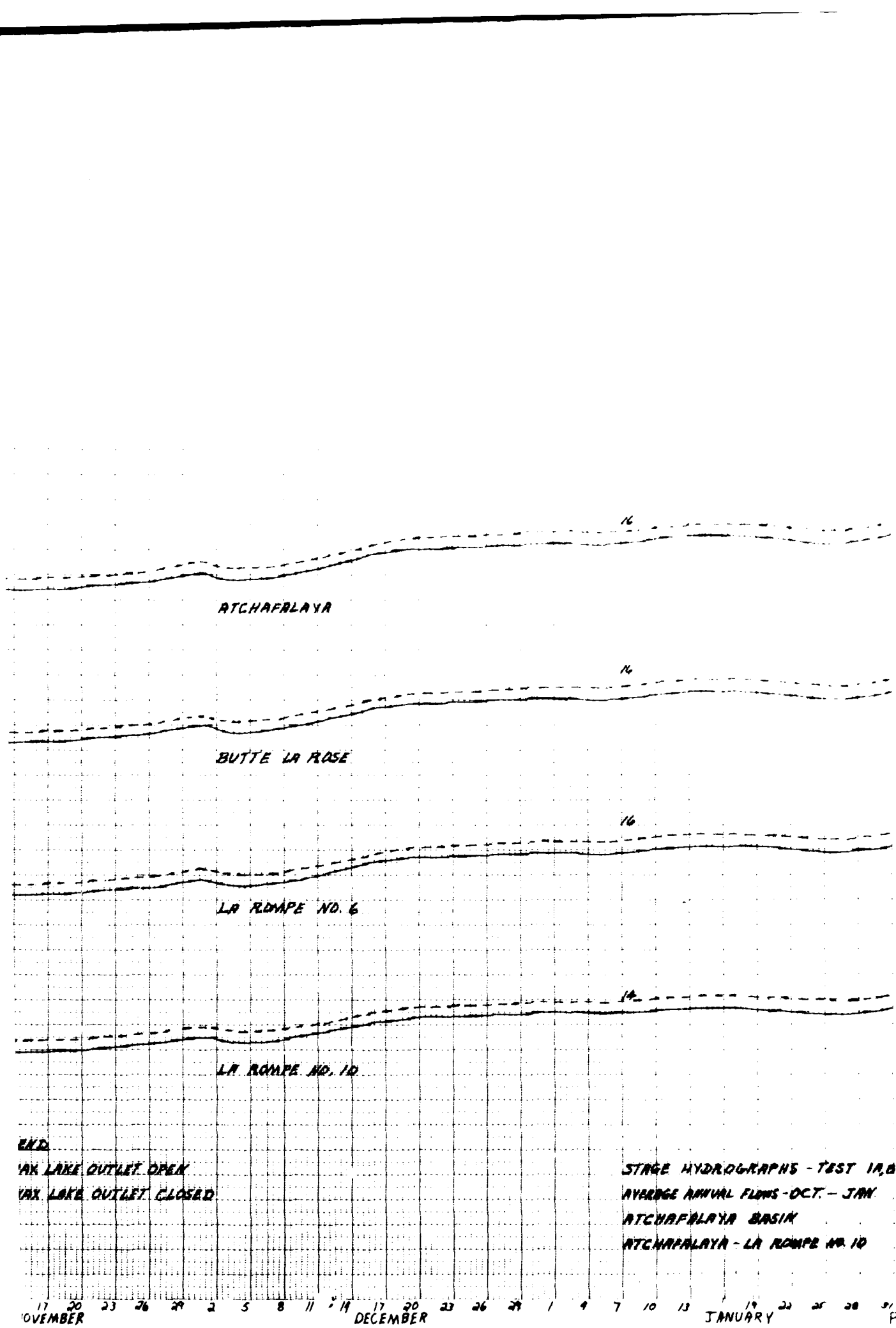
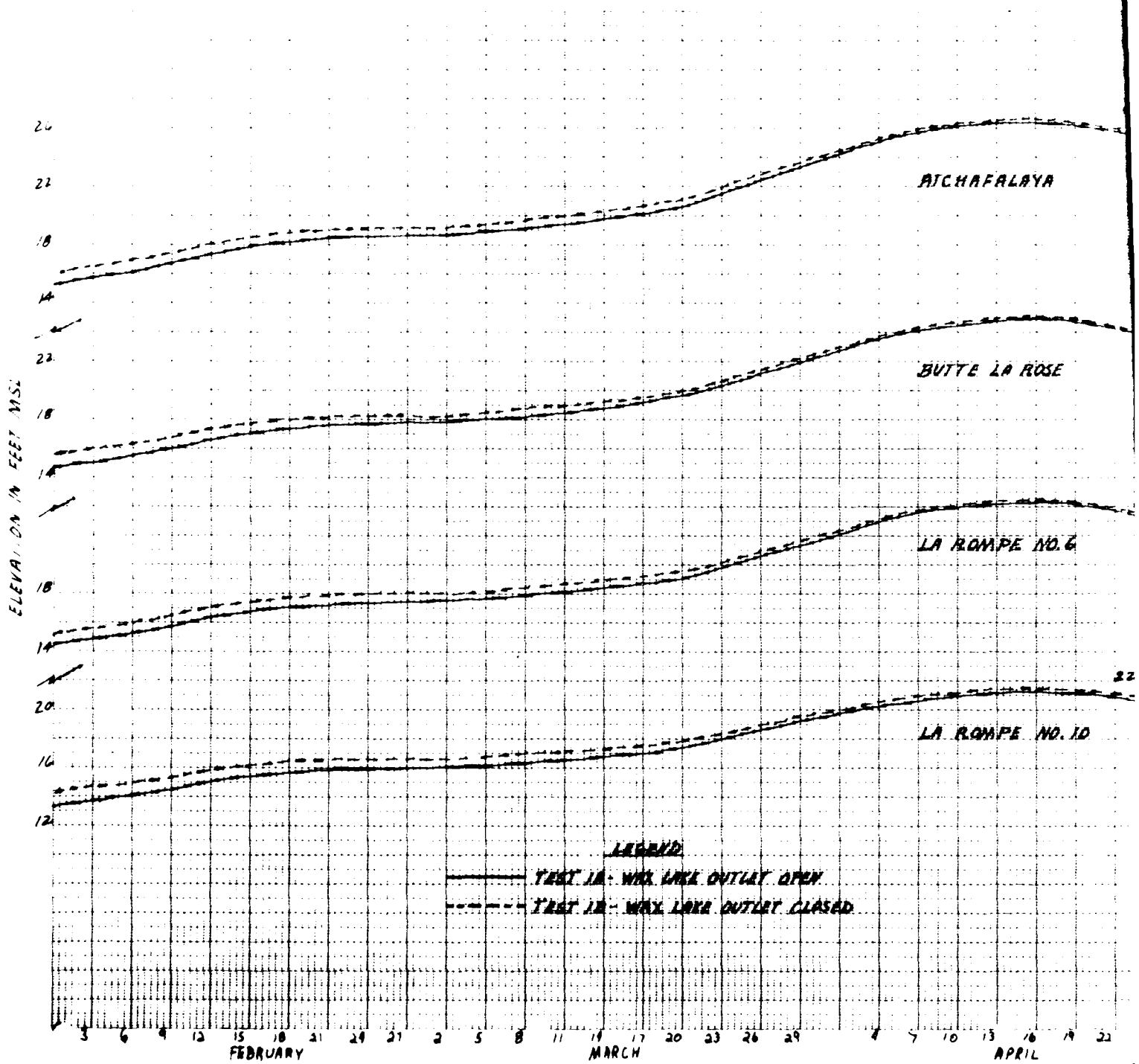
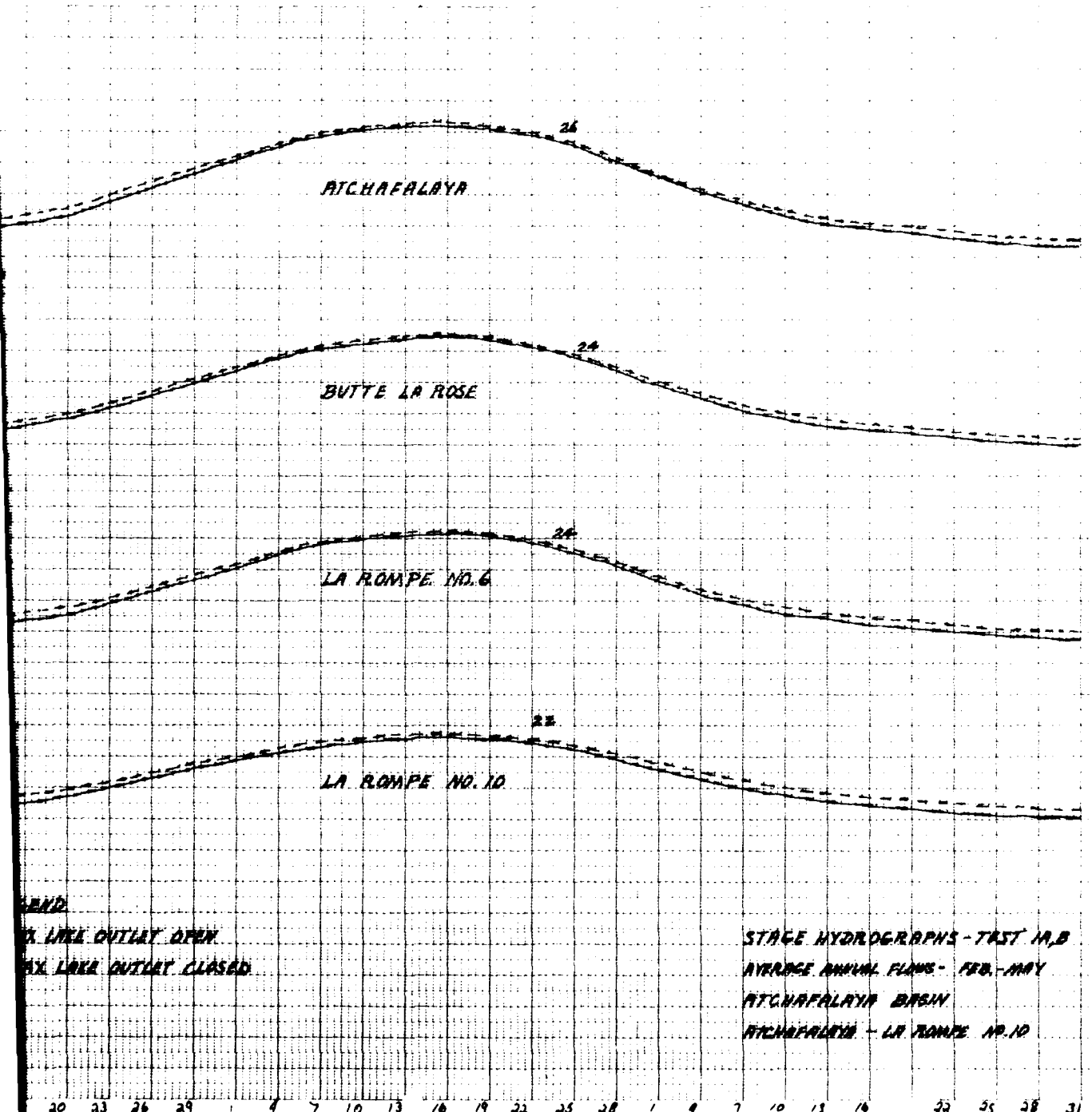

16
ATCHAFALAYA
14
BUTTE LA ROSE
16
LA ROMPE NO. 6
14
LA ROMPE NO. 10
END
VAX LAKE OUTLET OPEN
VAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10
17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
OVEMBER
DECEMBER
JANUARY

PLATE 17


ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
ELEVATION IN FEET MSL
LEGEND
TEST 1B - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



LAND

X LAKE OUTLET OPEN

X LAKE OUTLET CLOSED

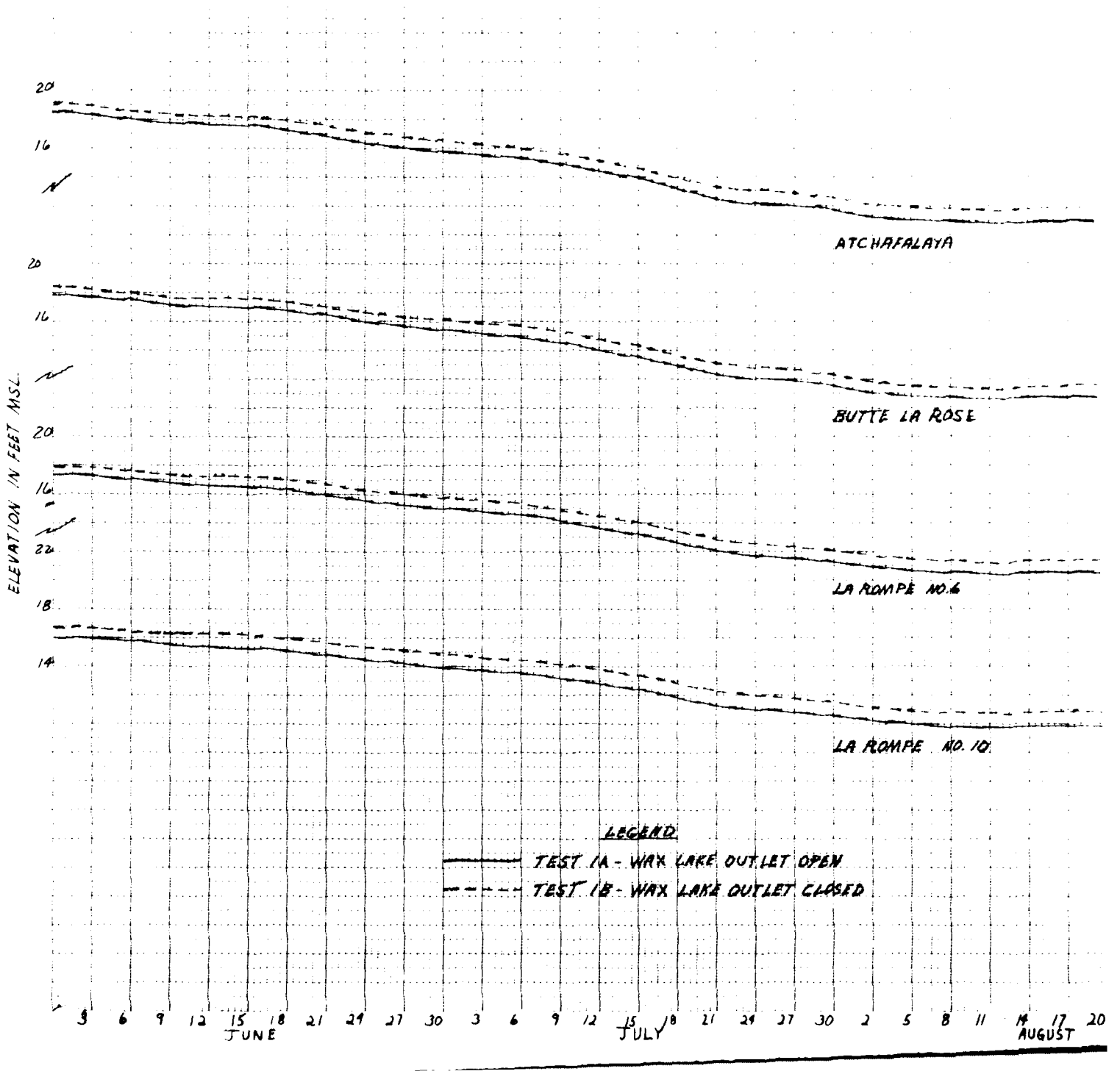
STAGE HYDROGRAPHS - TEST M,B

AVERAGE ANNUAL FLOWS - FEB. - MAY

ATCHAFALAYA BASIN

ATCHAFALAYA - LA ROMPE NO. 10

PLATE 18


ELEVATION IN FEET MSL
20
16
ATCHAFALAYA
20
16
BUTTE LA ROSE
20
16
LA ROMPE NO. 6
22
18
14
LA ROMPE NO. 10
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

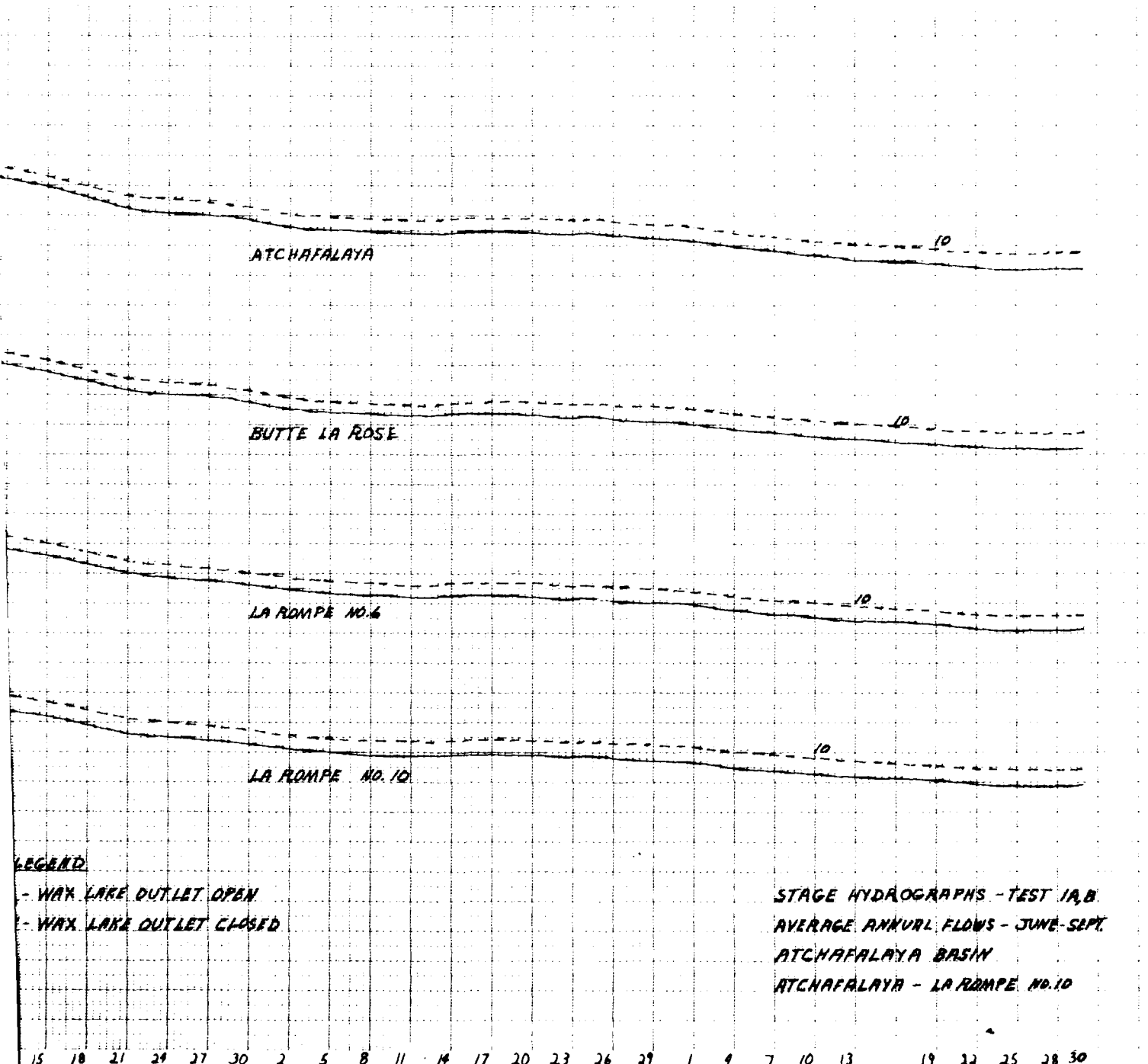
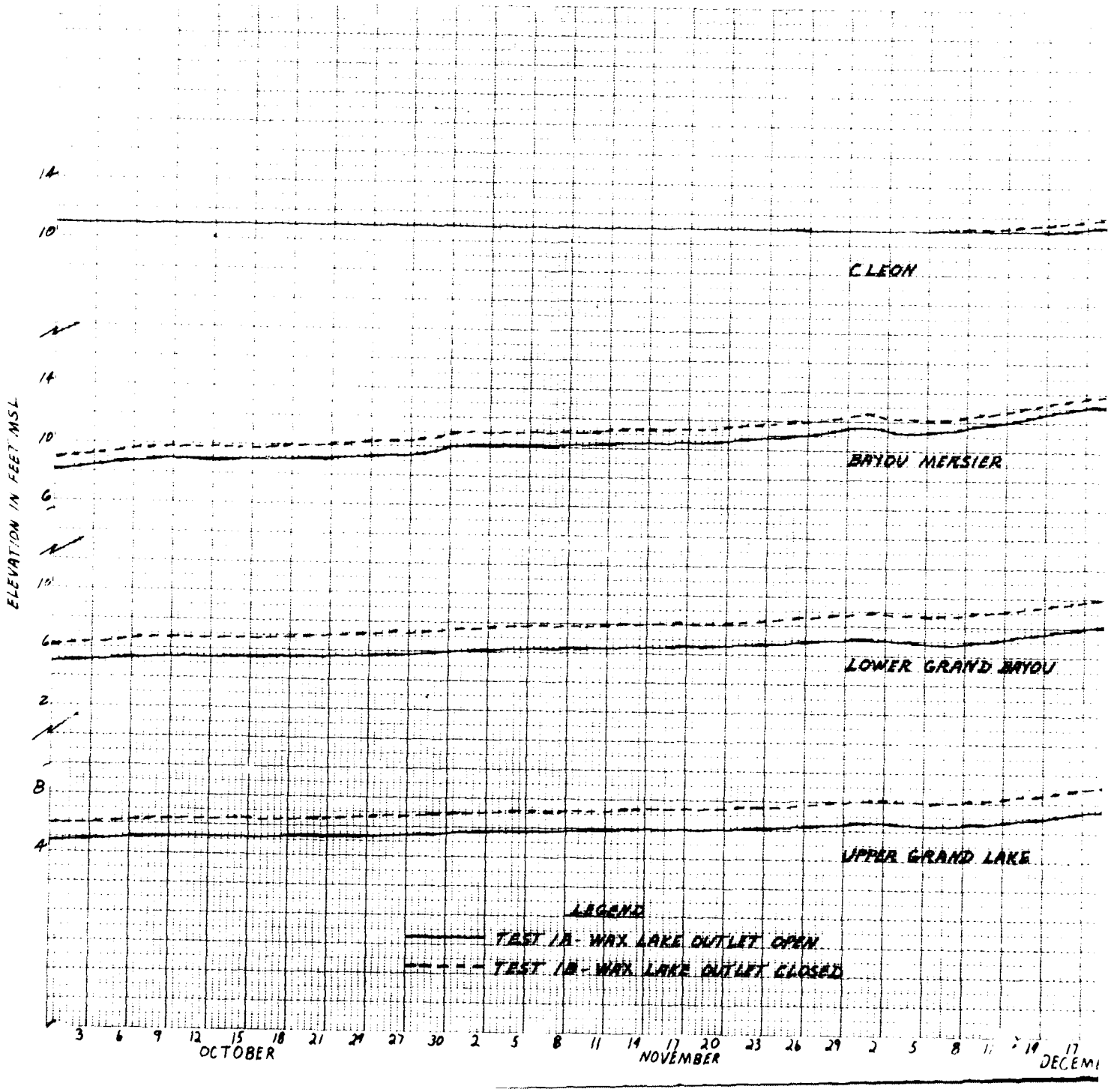
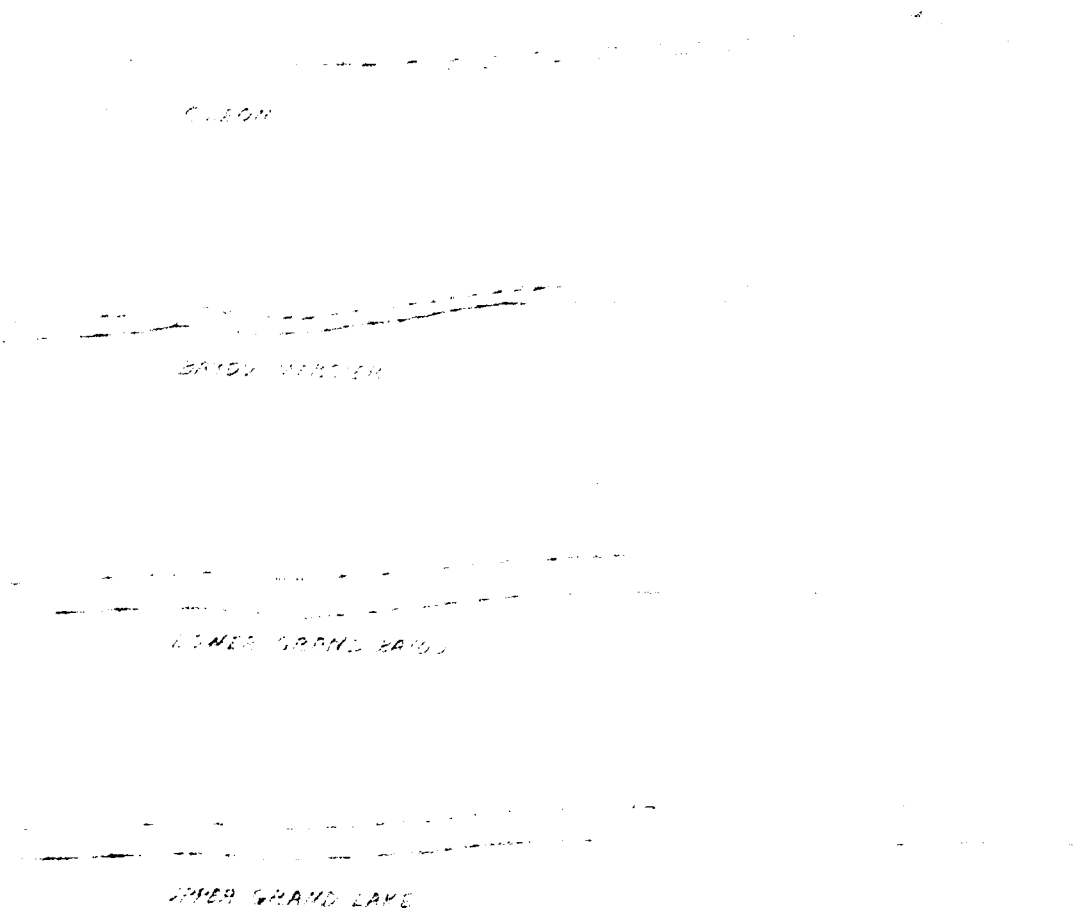
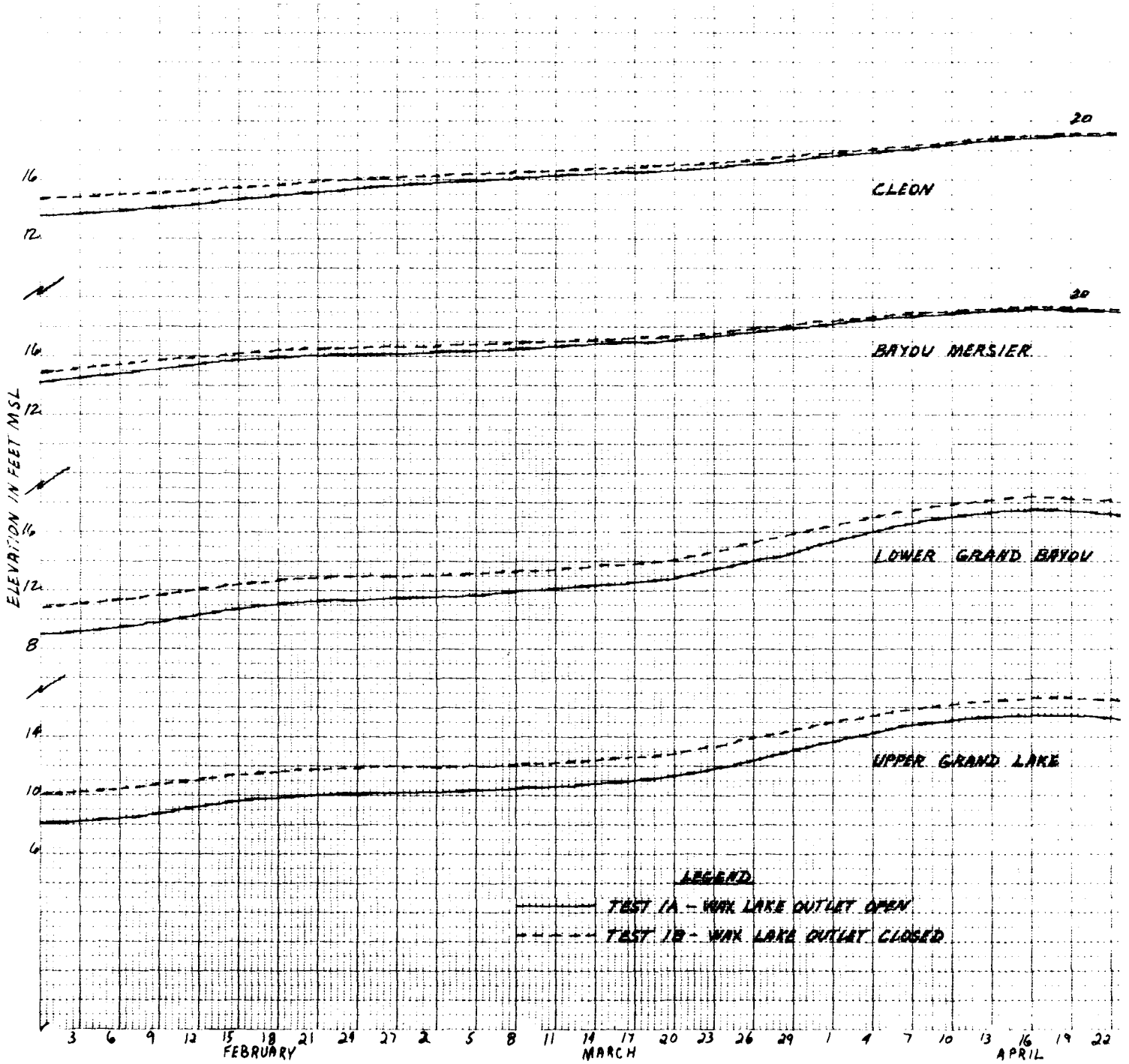
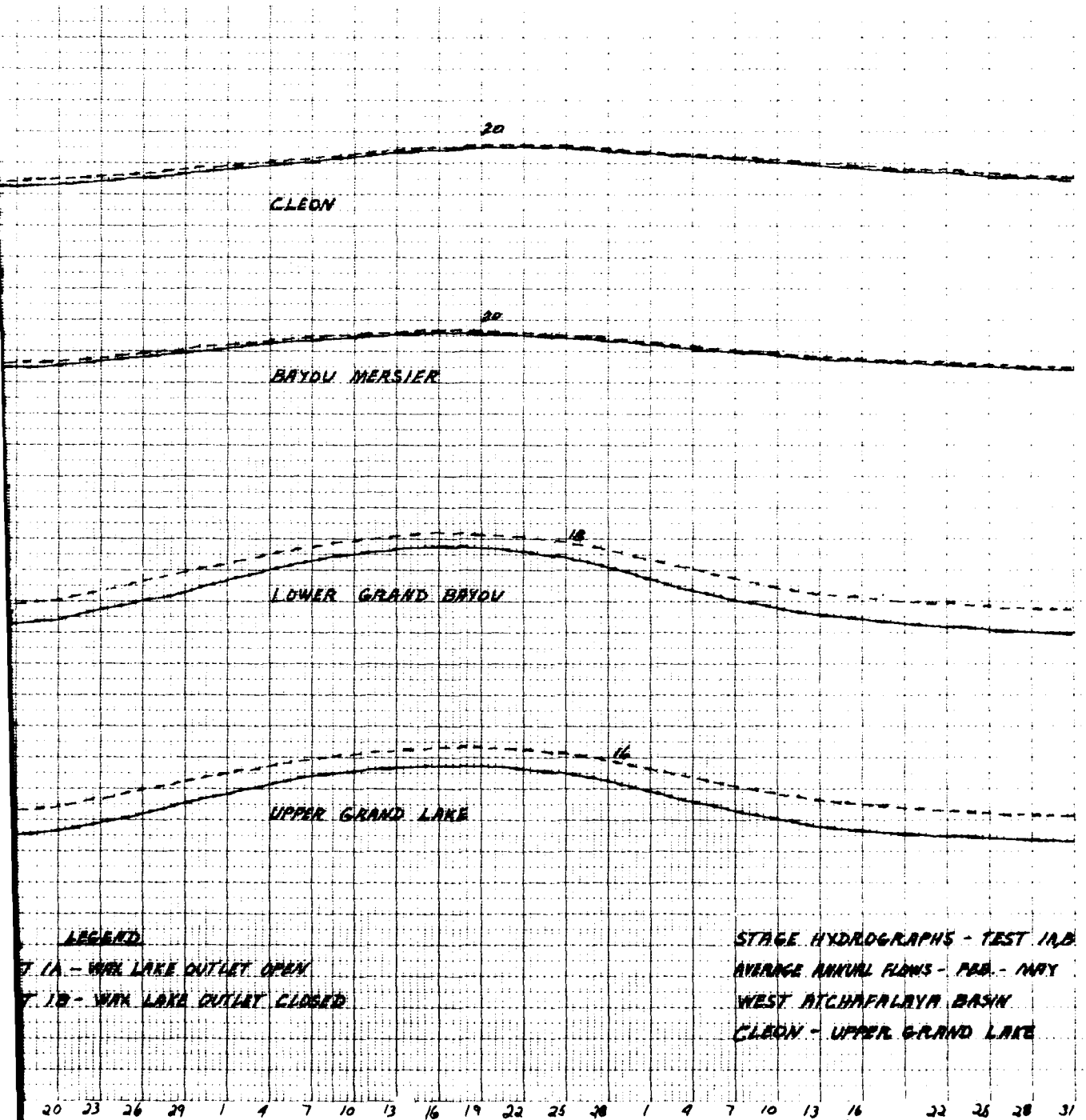

ATCHAFALAYA
10
BUTTE LA ROSE
10
LA ROMPE NO.6
10
LA ROMPE NO. 10
10
LEGEND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE-SEPT.
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO.10
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 19


ELEVATION IN FEET MSL
14
10
C LEON
14
10
BAYOU MERSIER
6
10
6
LOWER GRAND BAYOU
2
8
4
UPPER GRAND LAKE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8
DECEMI

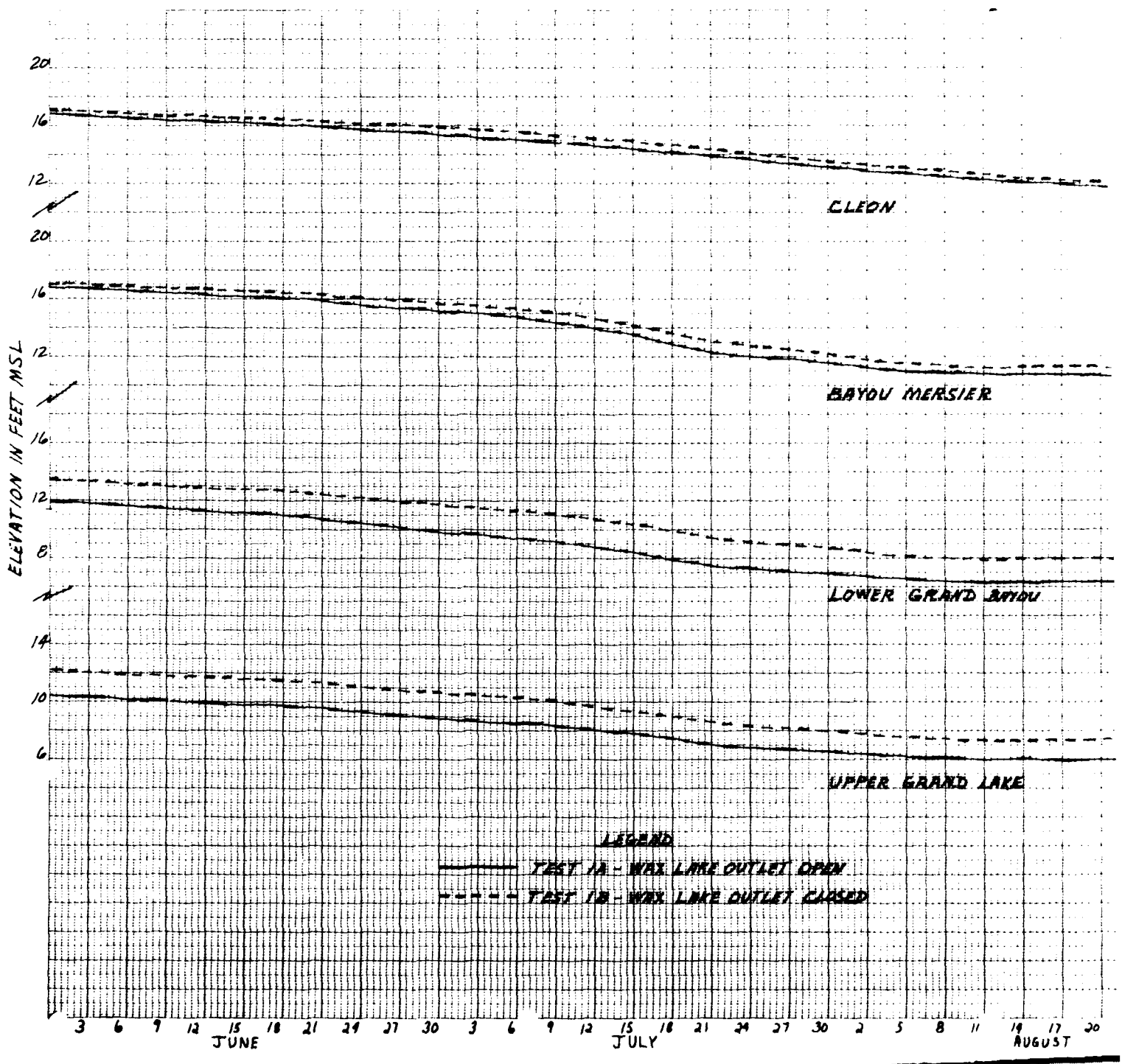

LAKE OUTLET OPEN
LAKE OUTLET CLOSED


ELEVATION IN FEET MSL
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

PLATE 21


ELEVATION IN FEET MSL
20
16
12
8
16
12
16
12
8
14
10
6
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

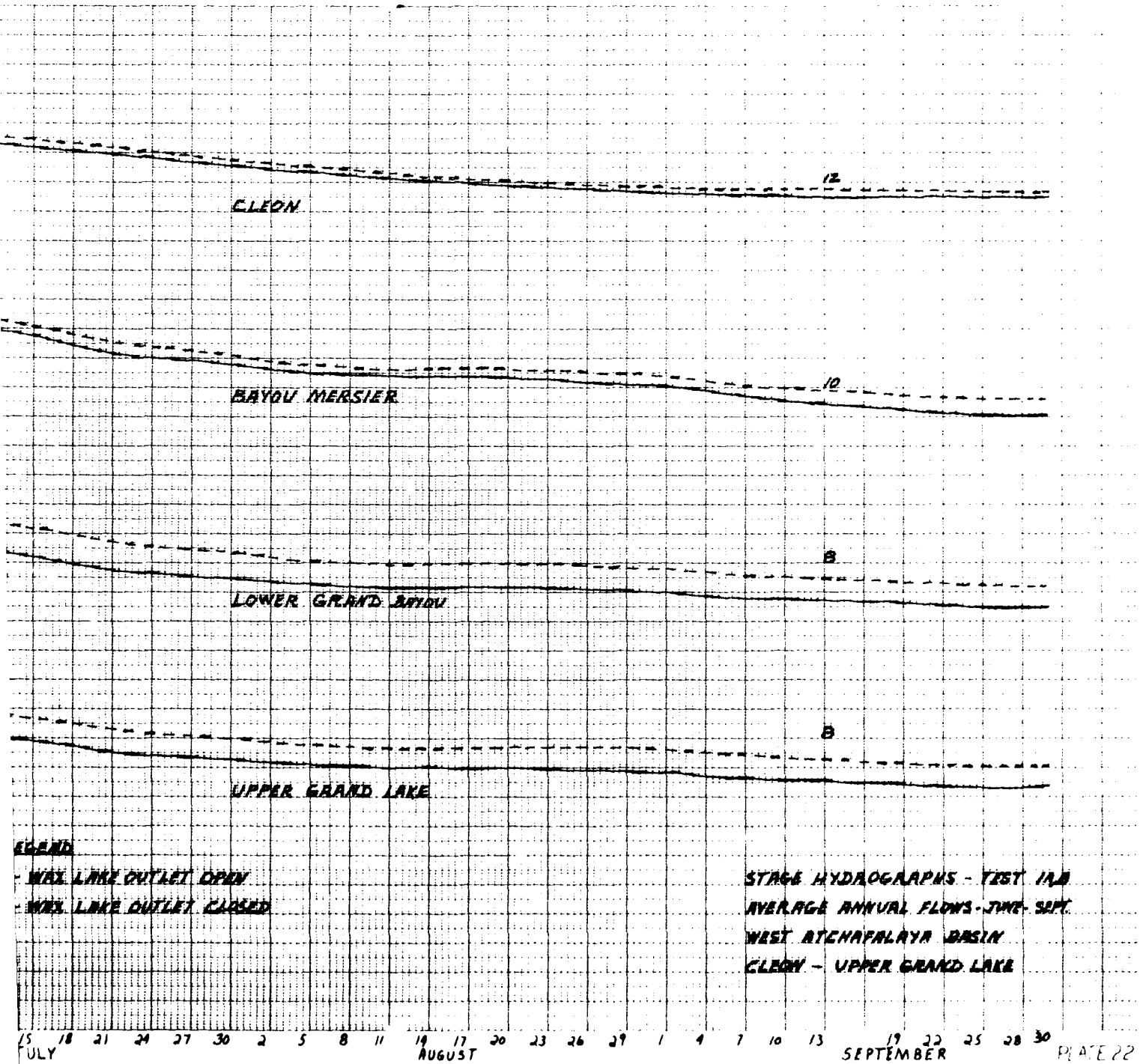
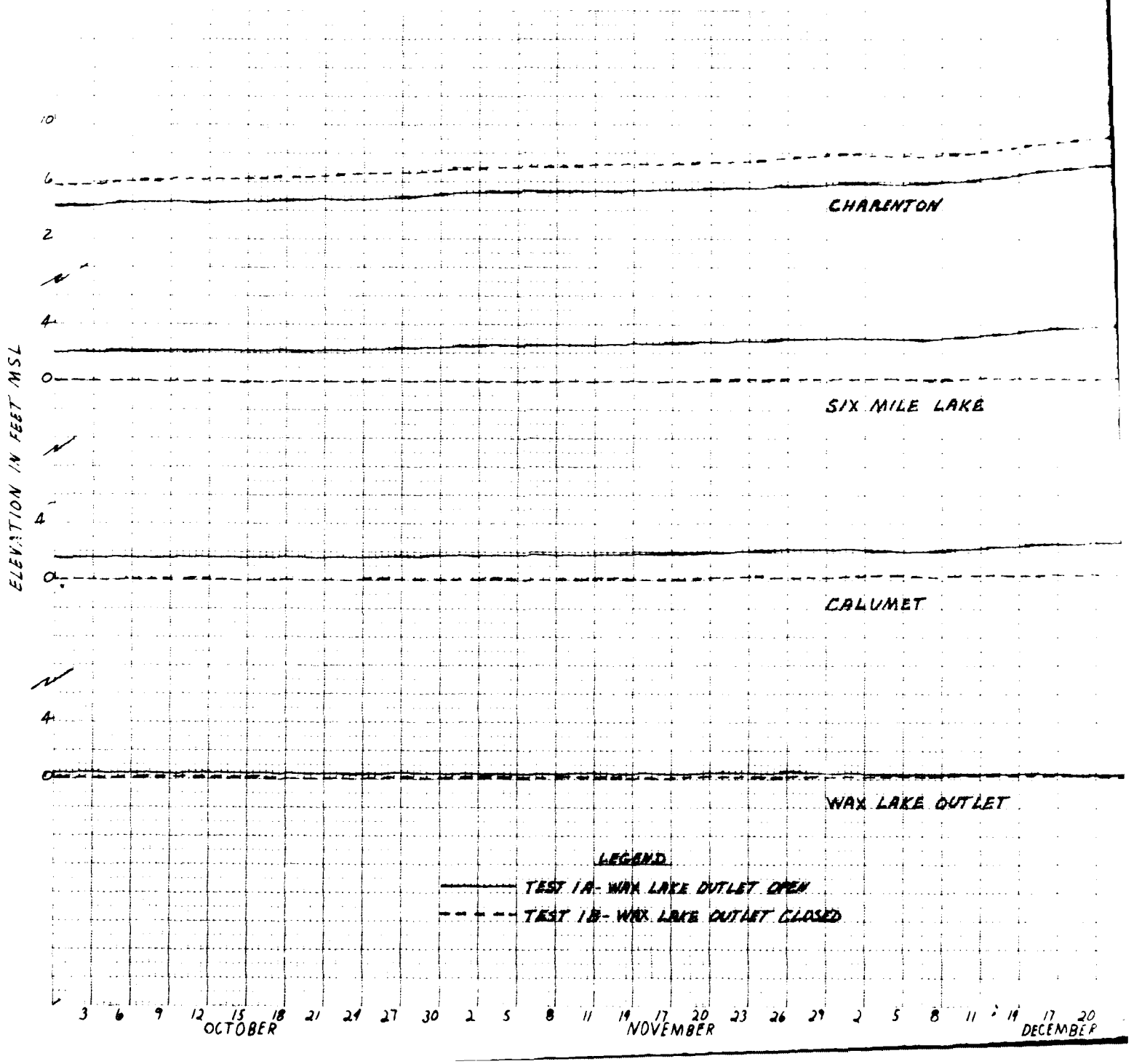

12
CLEON
10
BAYOU MERSIER
8
LOWER GRAND BAYOU
8
UPPER GRAND LAKE
GRAND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE-SEPT.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 22


ELEVATION IN FEET MSL
10
6
2
4
0
4
0
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 1A- WAX LAKE OUTLET OPEN
TEST 1B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

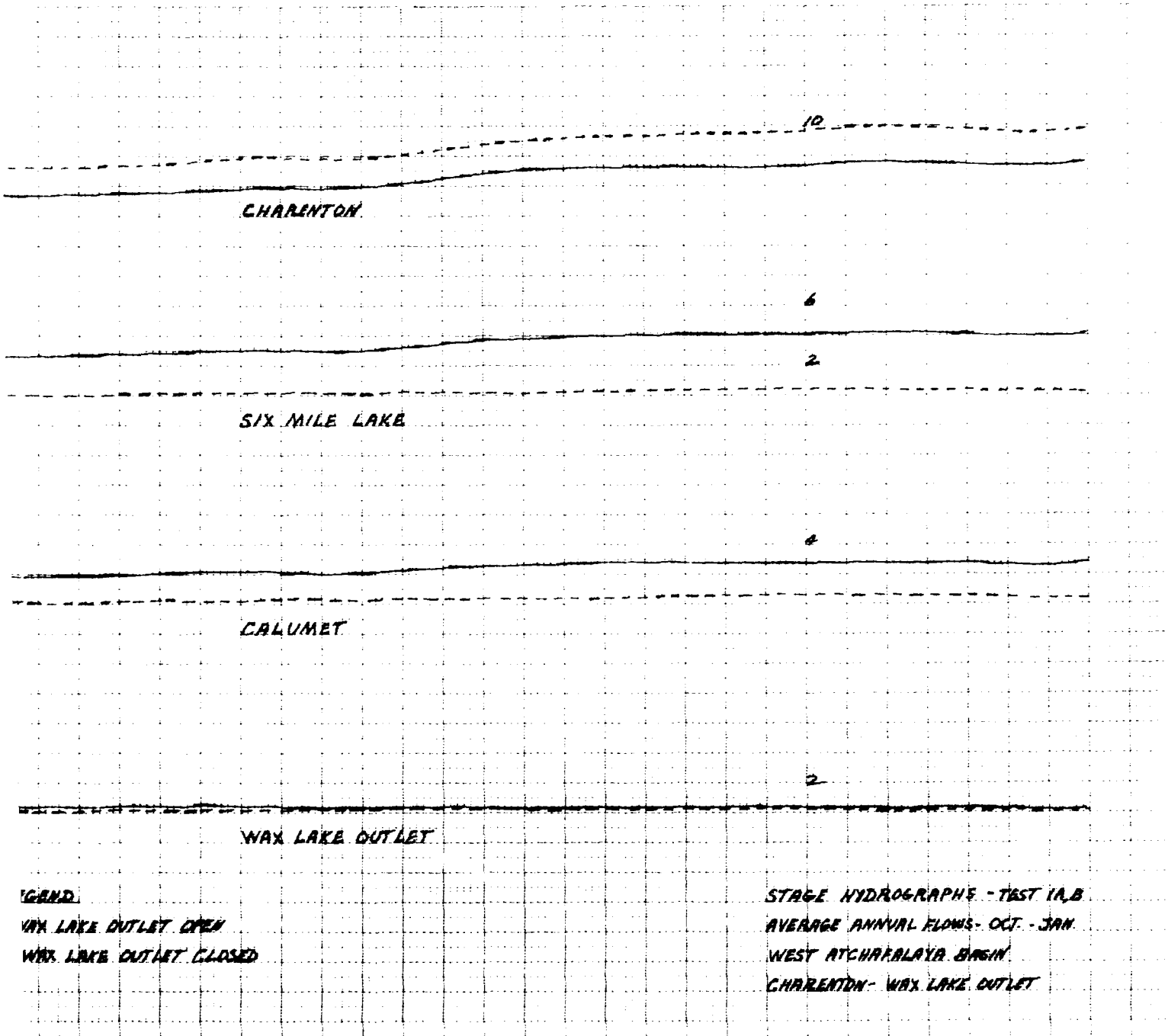
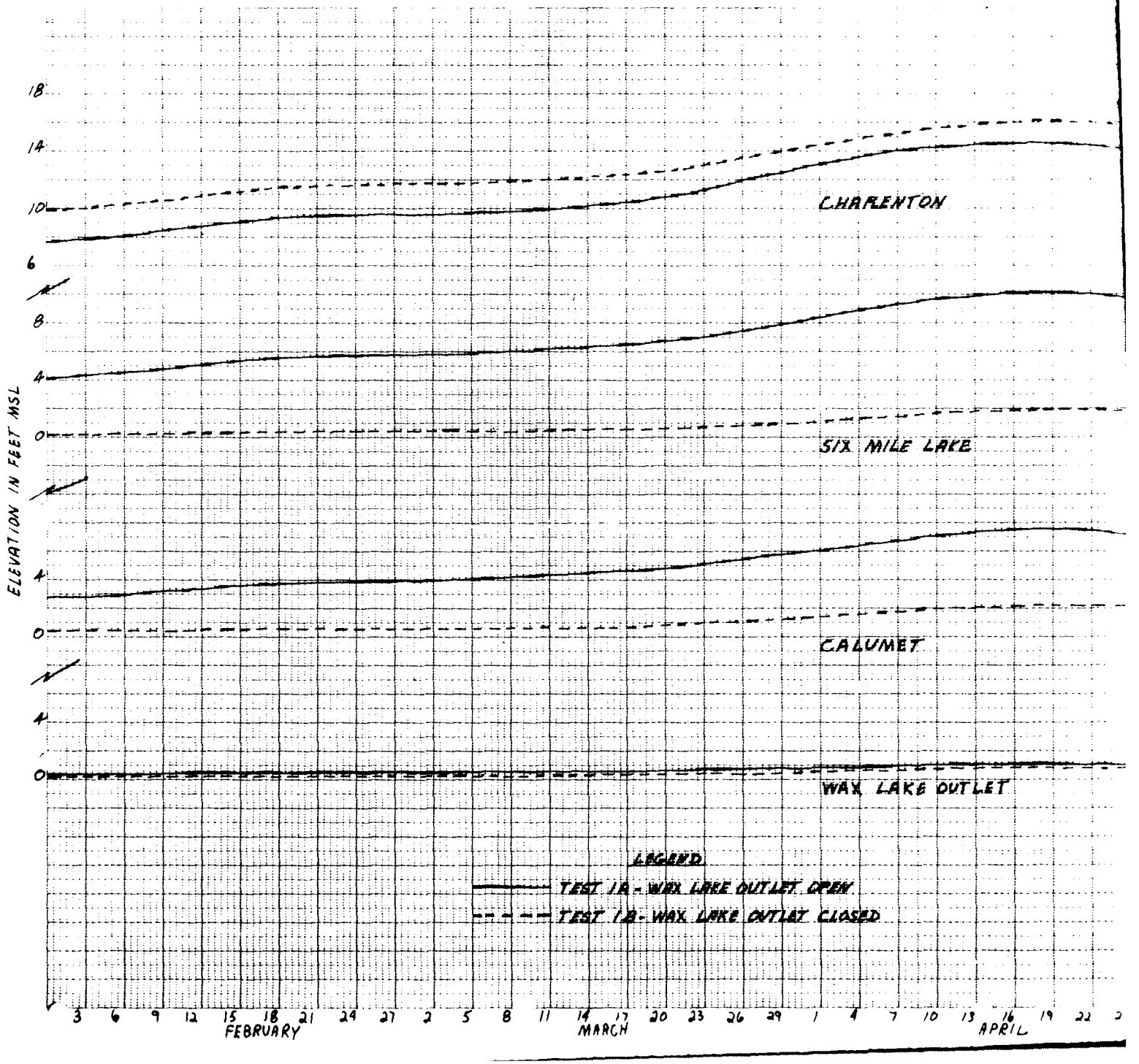

10
CHARENTON
6
2
SIX MILE LAKE
4
CALUMET
2
WAX LAKE OUTLET
GEND
VAX LAKE OUTLET OPEN
WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
19 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 23


ELEVATION IN FEET MSL
18
14
10
6
8
4
0
4
0
4
0
CHARLESTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL

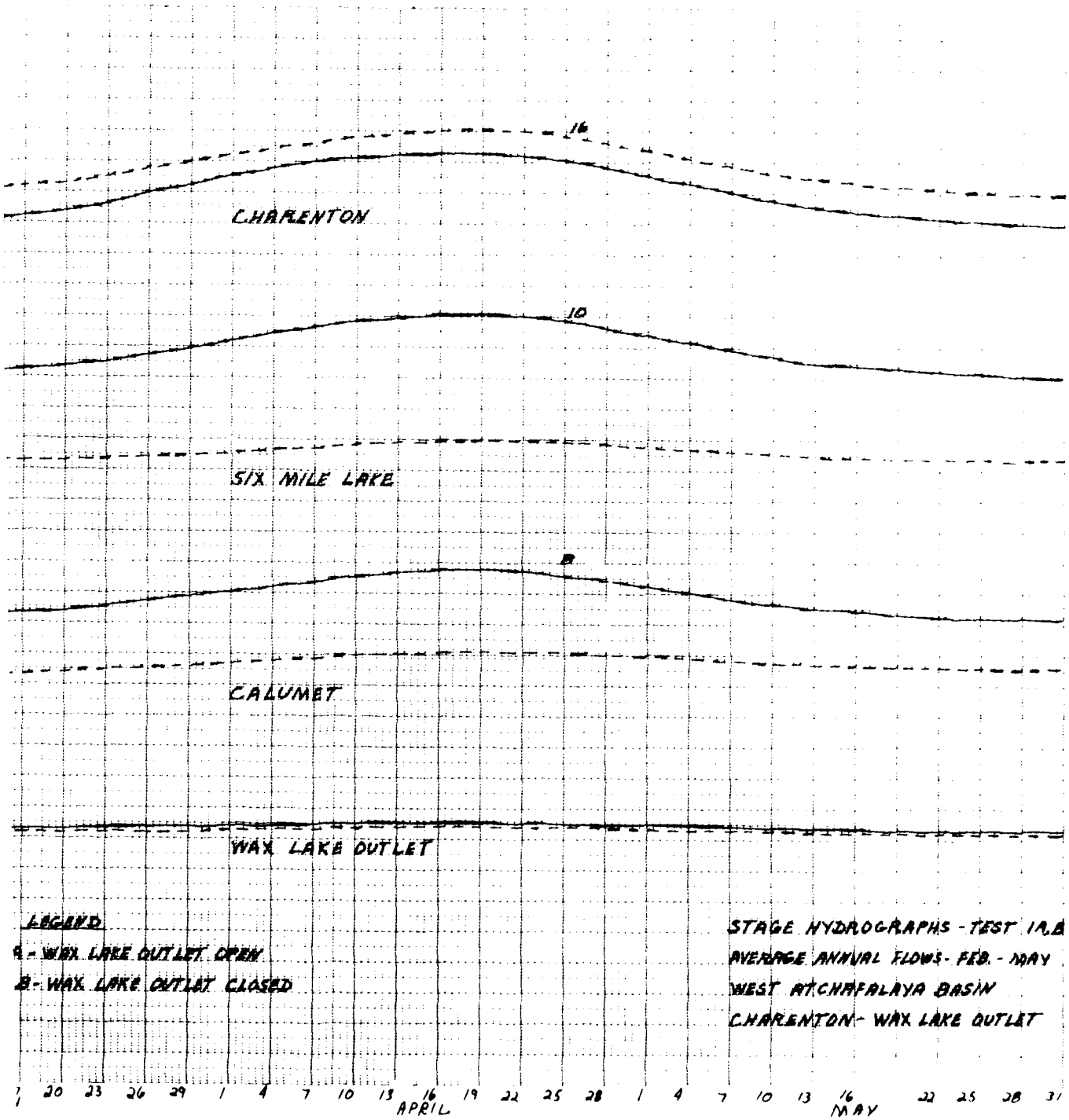
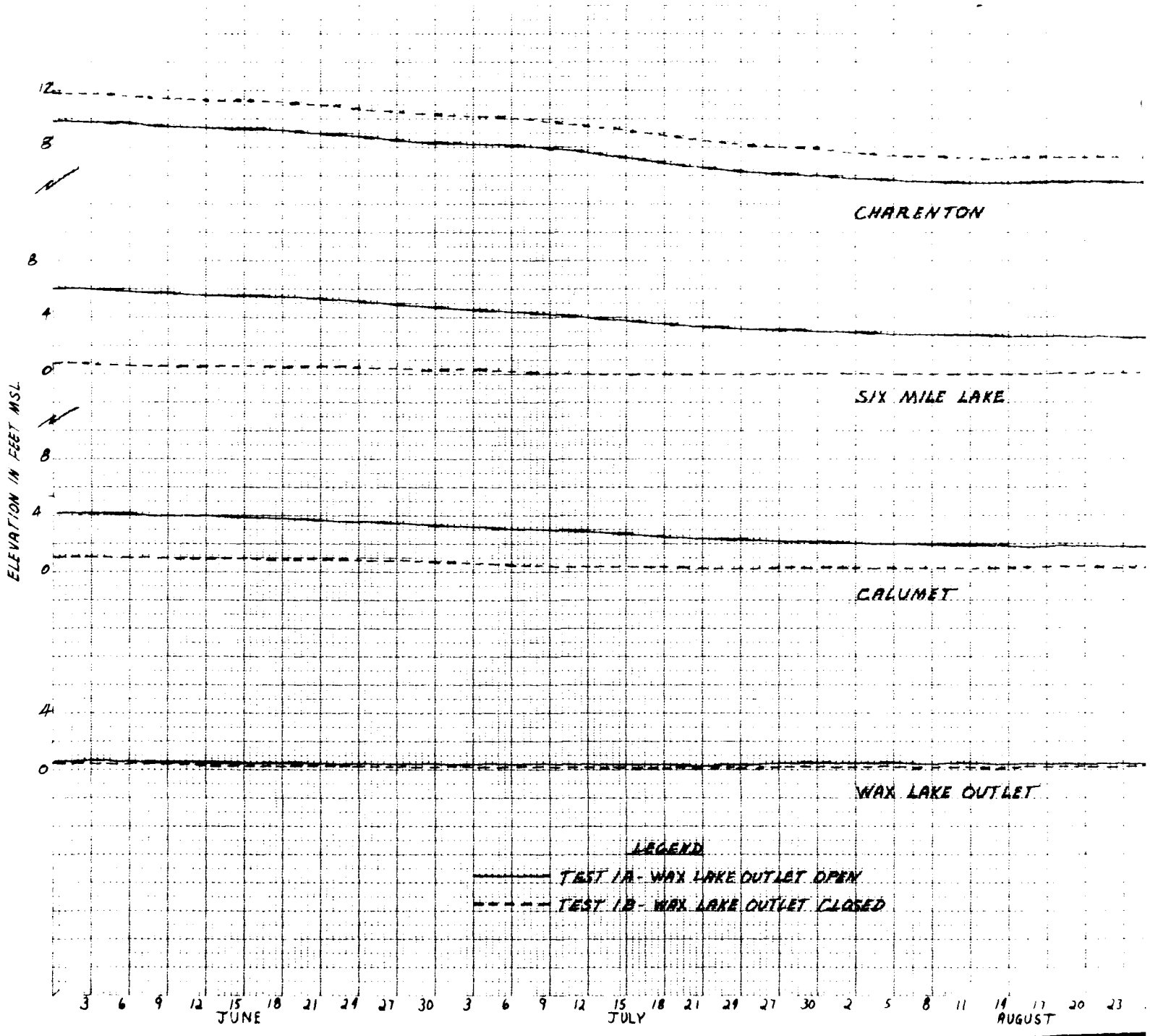
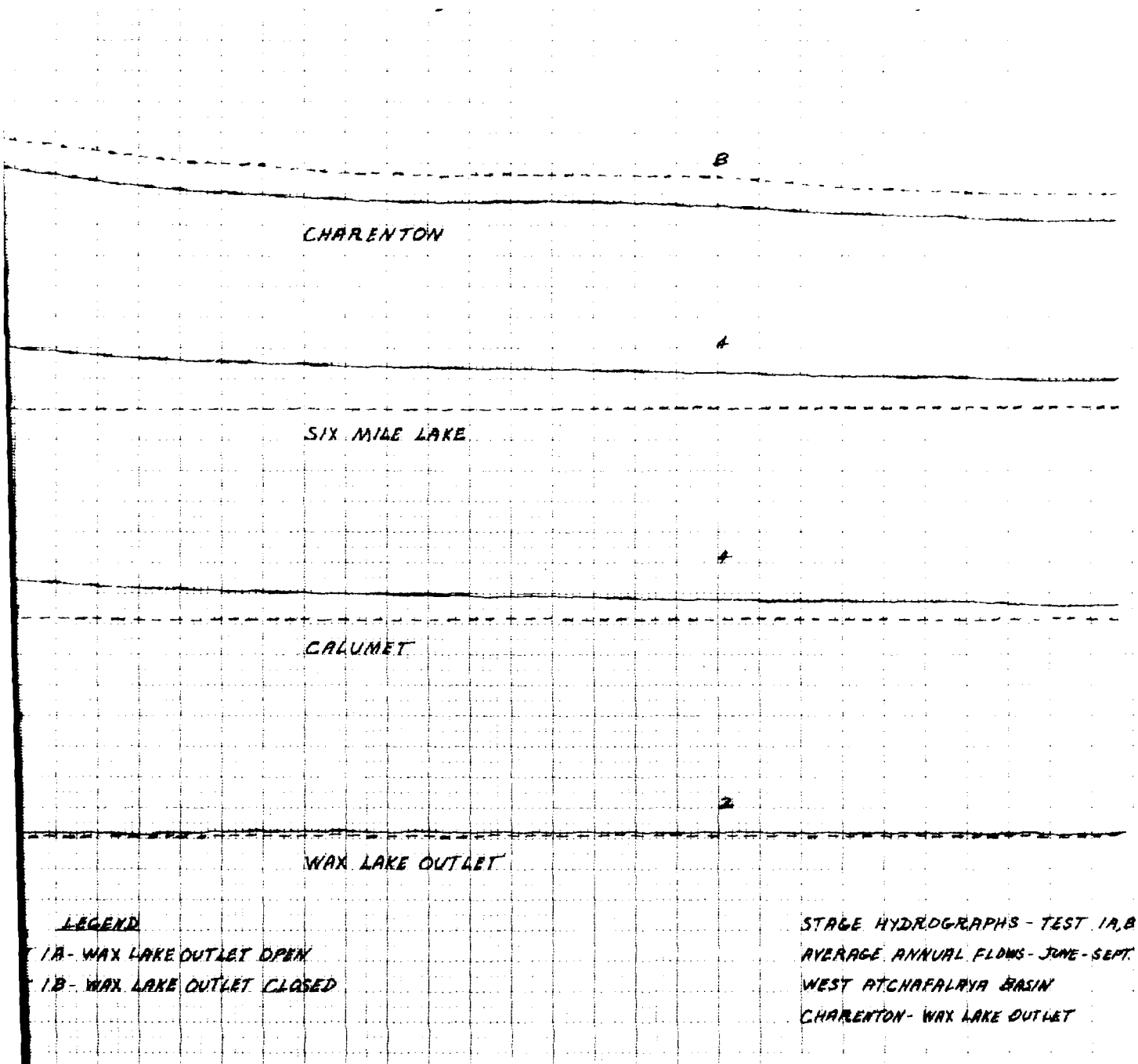
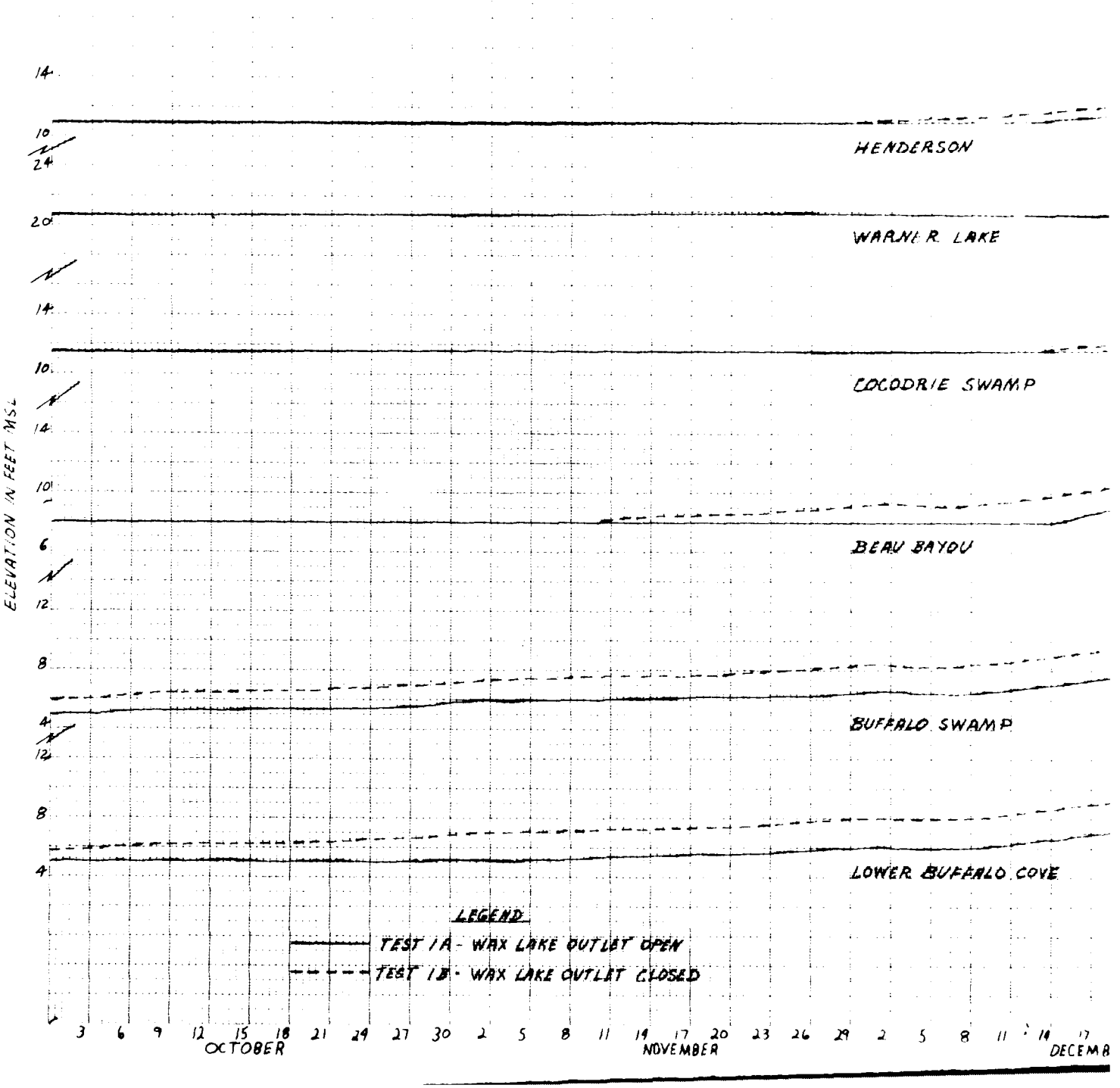
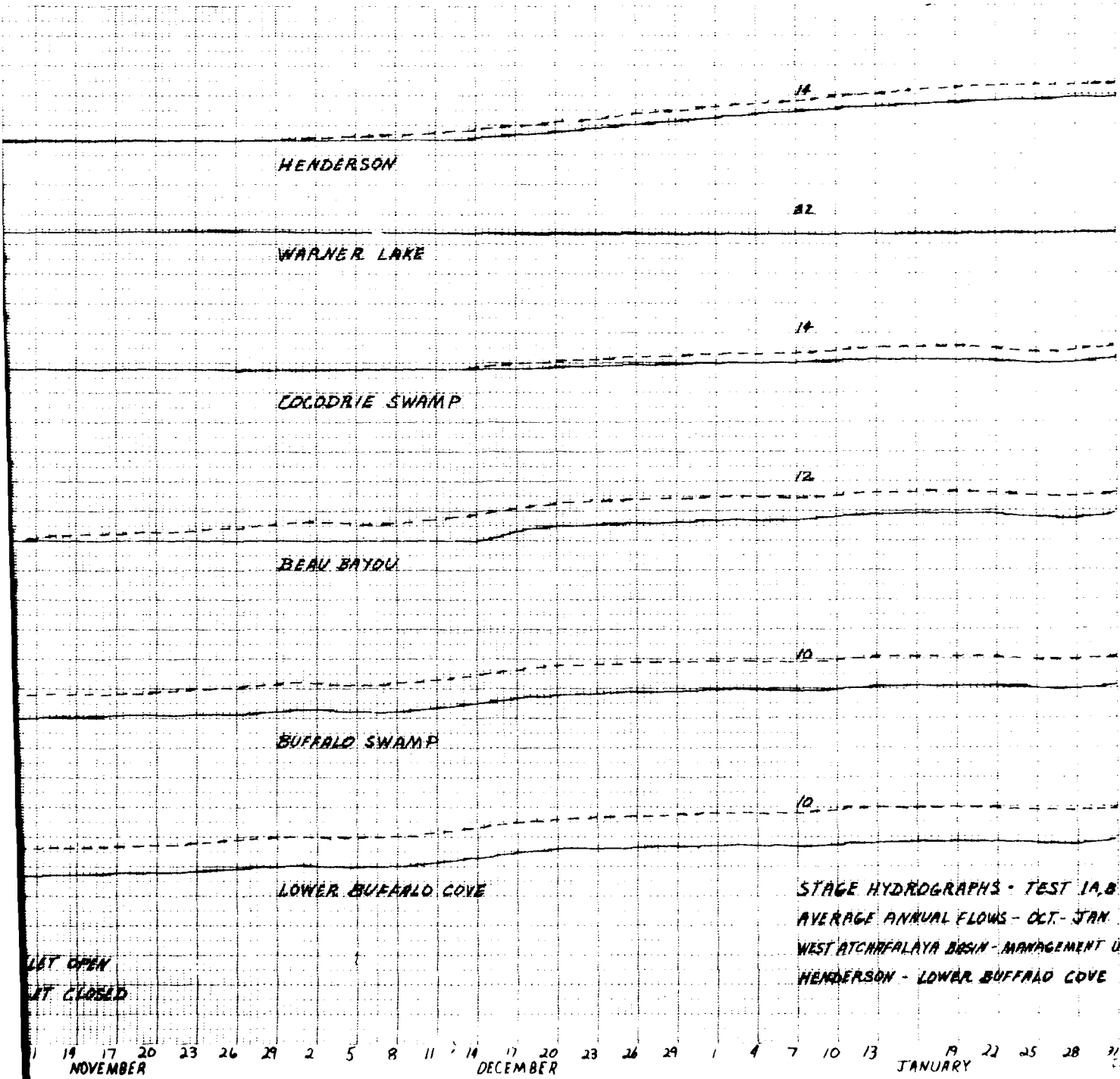

16
CHARENTON
10
SIX MILE LAKE
B
CALUMET
WAX LAKE OUTLET
LEGEND
A - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
1 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE P4


ELEVATION IN FEET MSL
12
8
CHARENTON
8
4
0
SIX MILE LAKE
8
4
0
CALUMET
4
0
WAX LAKE OUTLET
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20 23
AUGUST

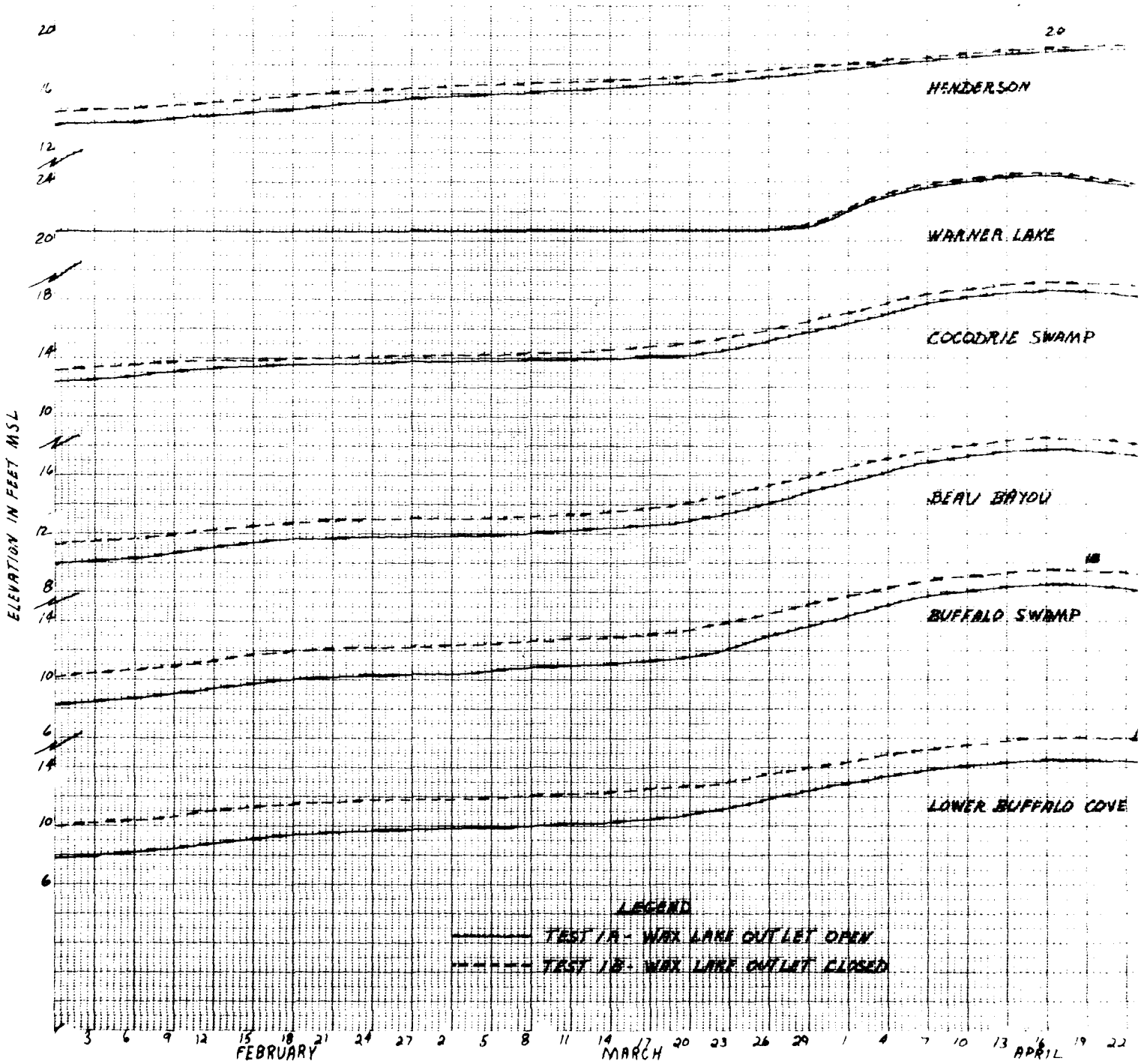

B
CHARENTON
4
SIX MILE LAKE
4
CALUMET
2
WAX LAKE OUTLET
LEGEND
1A - WAX LAKE OUTLET OPEN
1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

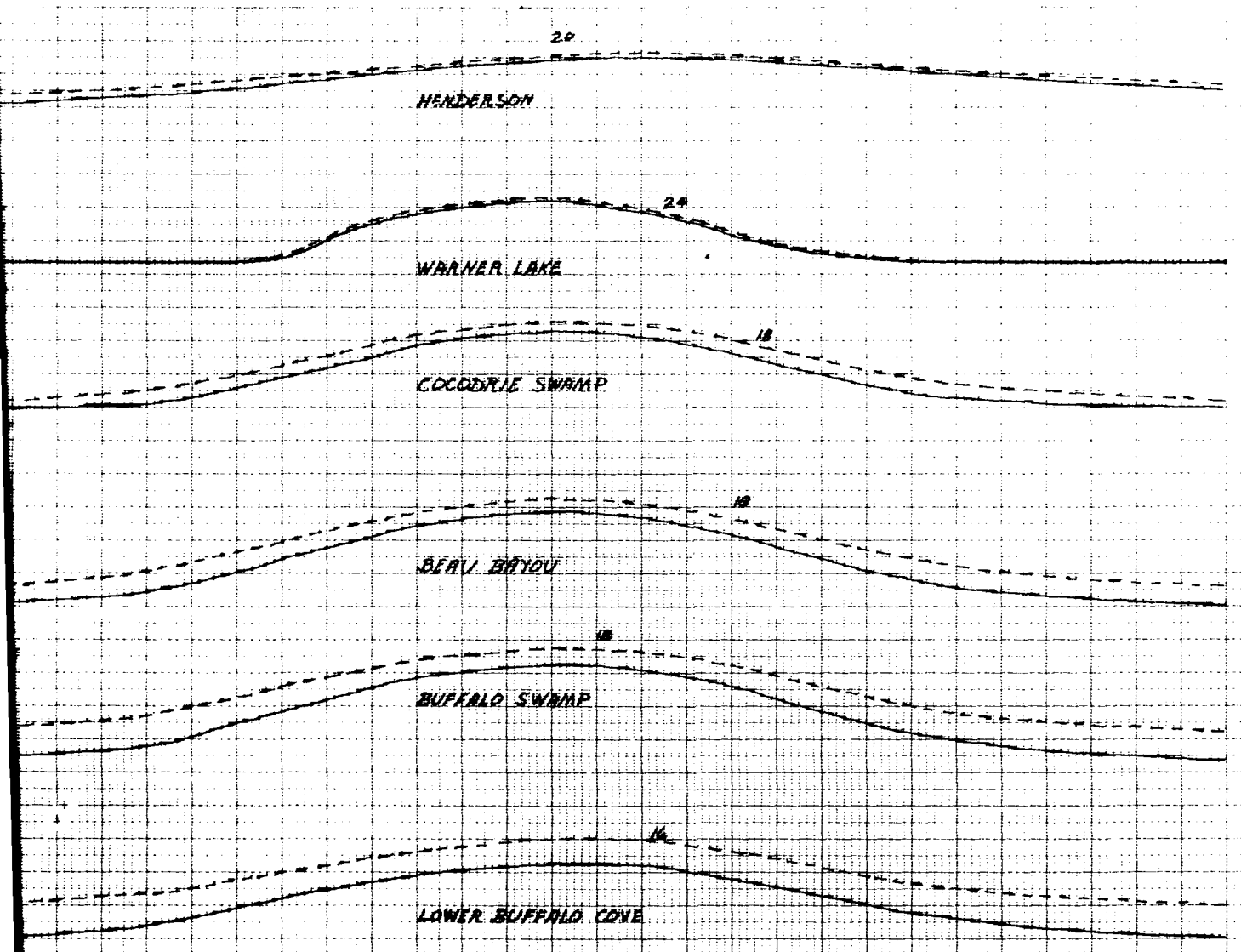

ELEVATION IN FEET MSL
14
10
24
HENDERSON
20
WARNER LAKE
14
10
COCODRIE SWAMP
14
10
BEAU BAYOU
6
12
8
4
12
BUFFALO SWAMP
8
4
LOWER BUFFALO COVE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMB



STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

PLATE 26


ELEVATION IN FEET MSL
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



LEGEND

1A - WAX LAKE OUTLET OPEN

1B - WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 1A,B

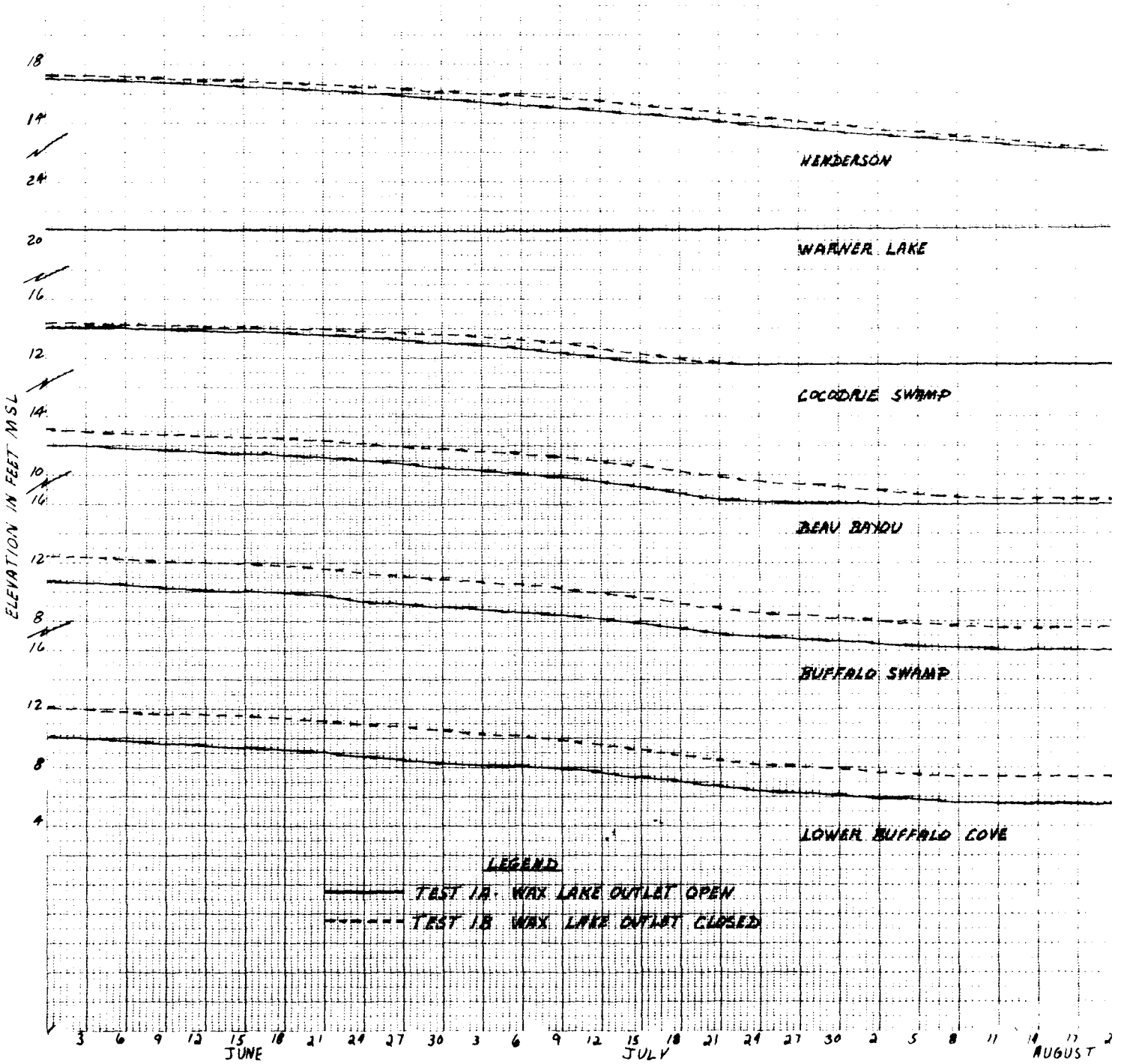
AVERAGE ANNUAL FLOWS — FEB - MAY

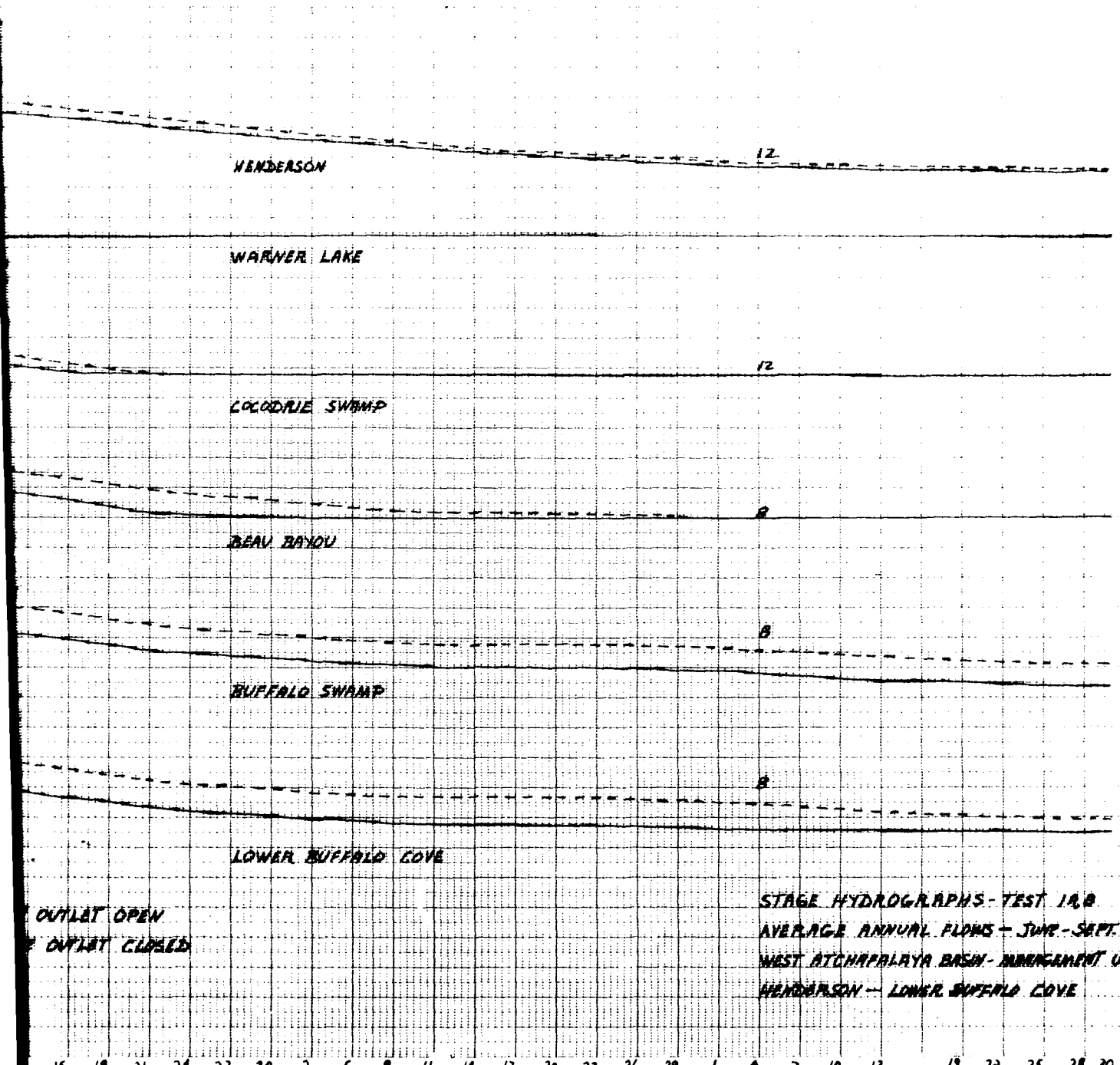
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS

HENDERSON — LOWER BUFFALO COVE

4 7 MARCH 20 23 26 29 1 4 7 10 13 16 APRIL 19 22 25 28 1 4 7 10 13 16 MAY 22 25 28 31

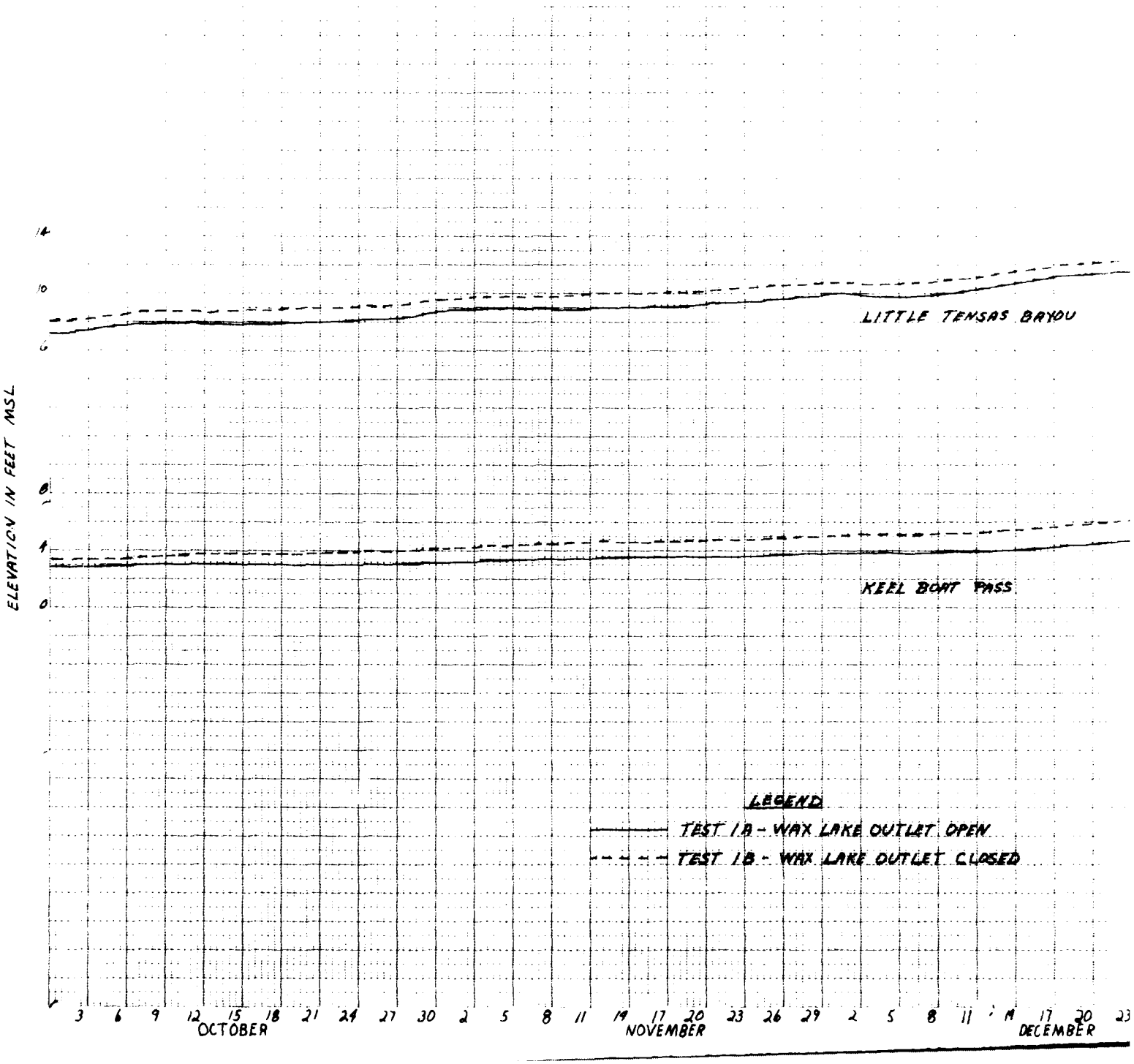
PLATE 27


ELEVATION IN FEET MSL
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B WAX LAKE OUTLET CLOSED
JUNE
JULY
AUGUST



STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN - EMERGENT UNITS
HENDERSON — LOWER BUFFALO COVE

PLATE 28


ELEVATION IN FEET MSL
14
10
6
2
0
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20 23
OCTOBER
NOVEMBER
DECEMBER

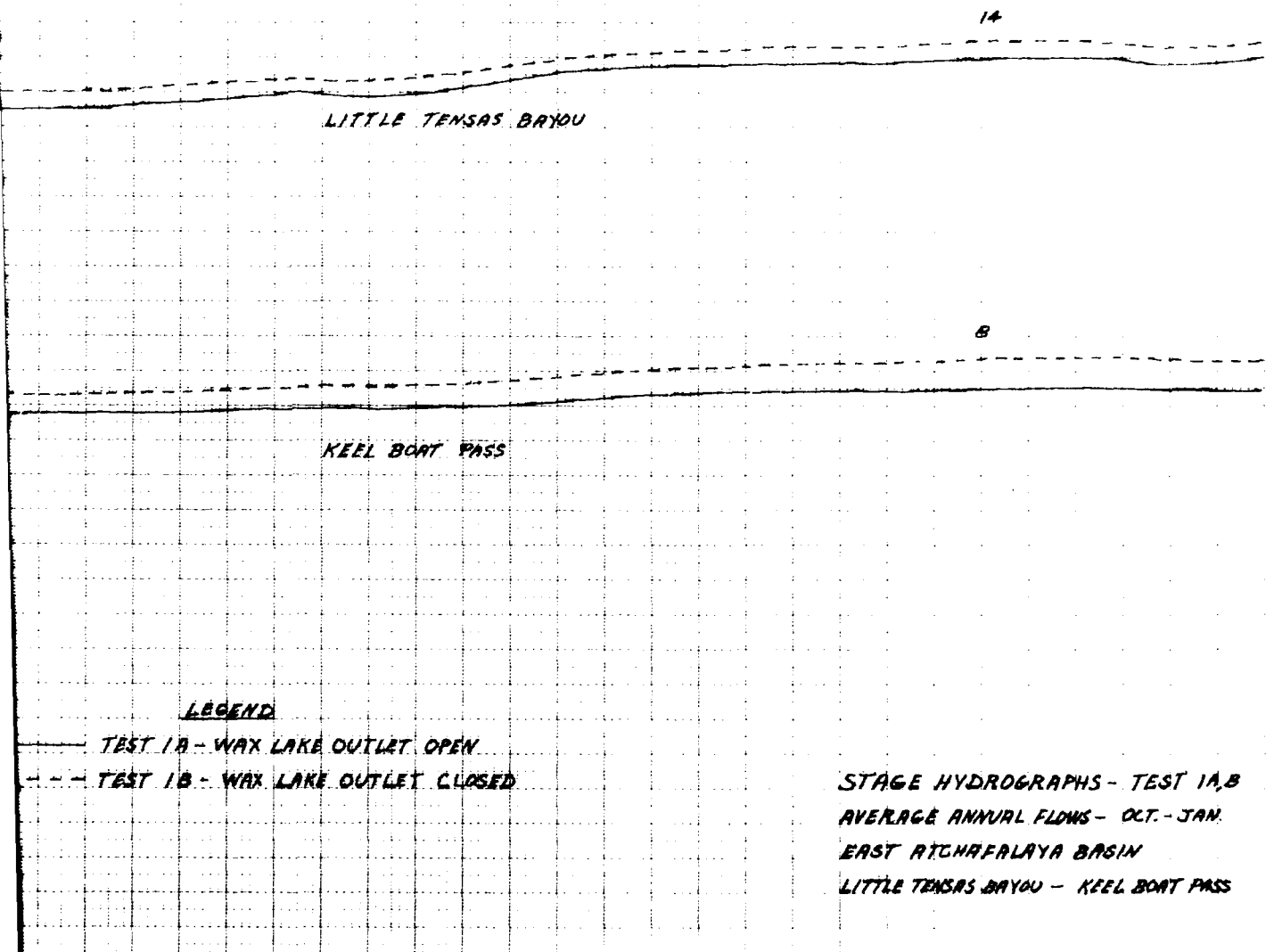
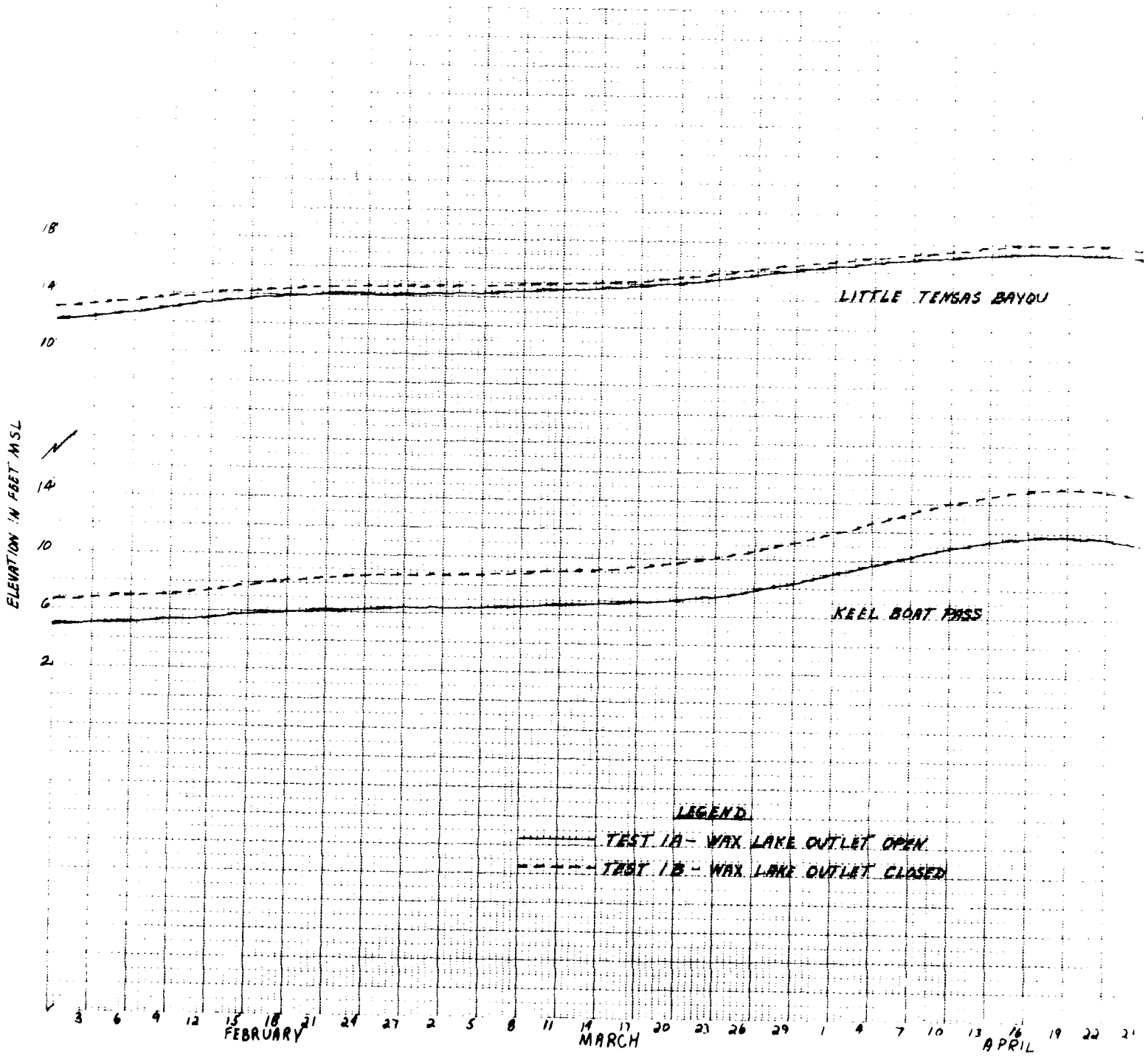

14
LITTLE TENSAS BAYOU
8
KEEL BOAT PASS
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 29


LITTLE TENSAS BAYOU
KEEL BOAT PASS
ELEVATION IN FEET MSL
18
14
10
14
10
6
2
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22
APRIL

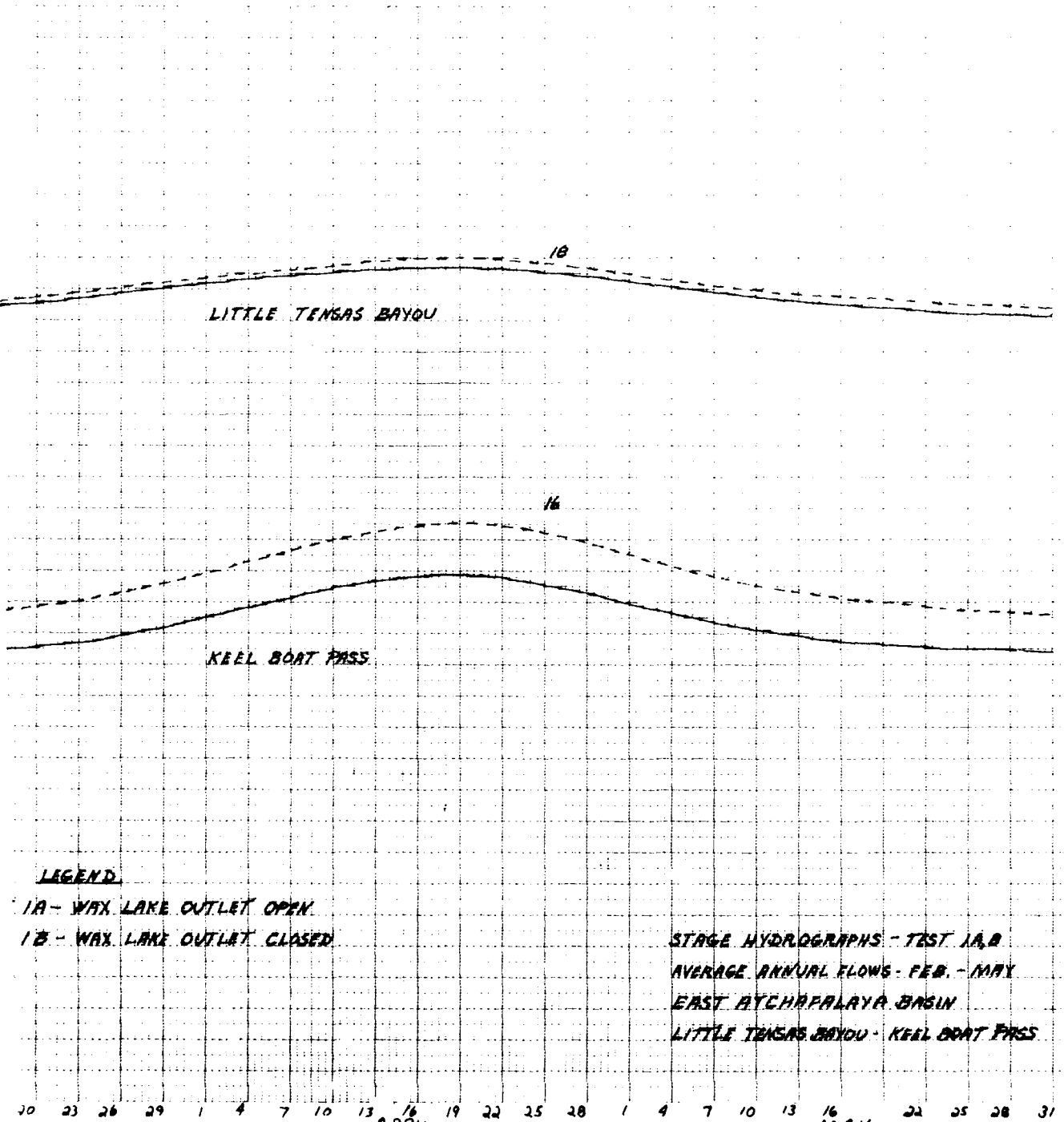
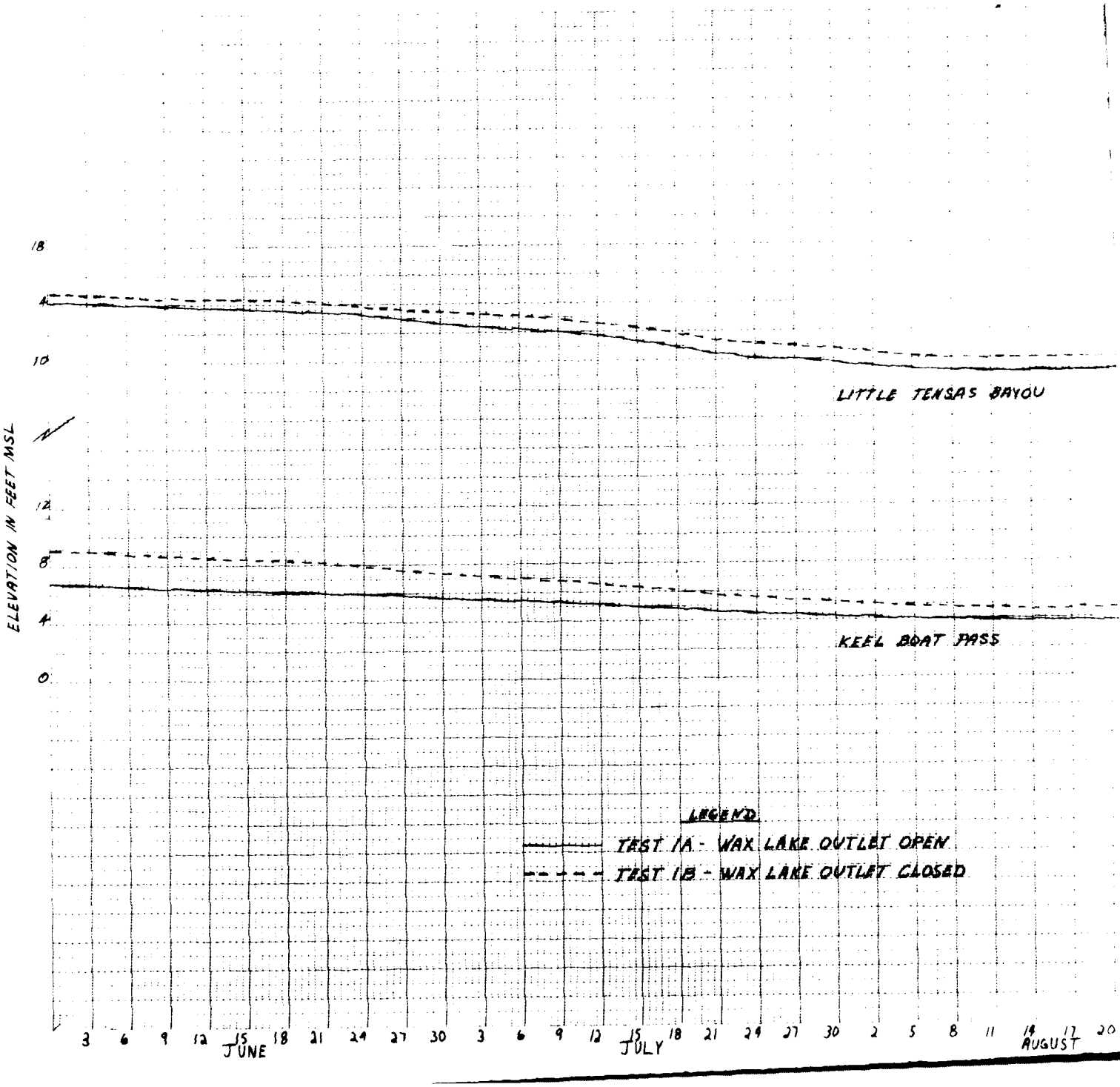

1B
LITTLE TENSAS BAYOU
1A
KEEL BOAT PASS
LEGEND
1A - WAX LAKE OUTLET OPEN
1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE 30


ELEVATION IN FEET MSL
18
14
10
8
4
0
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

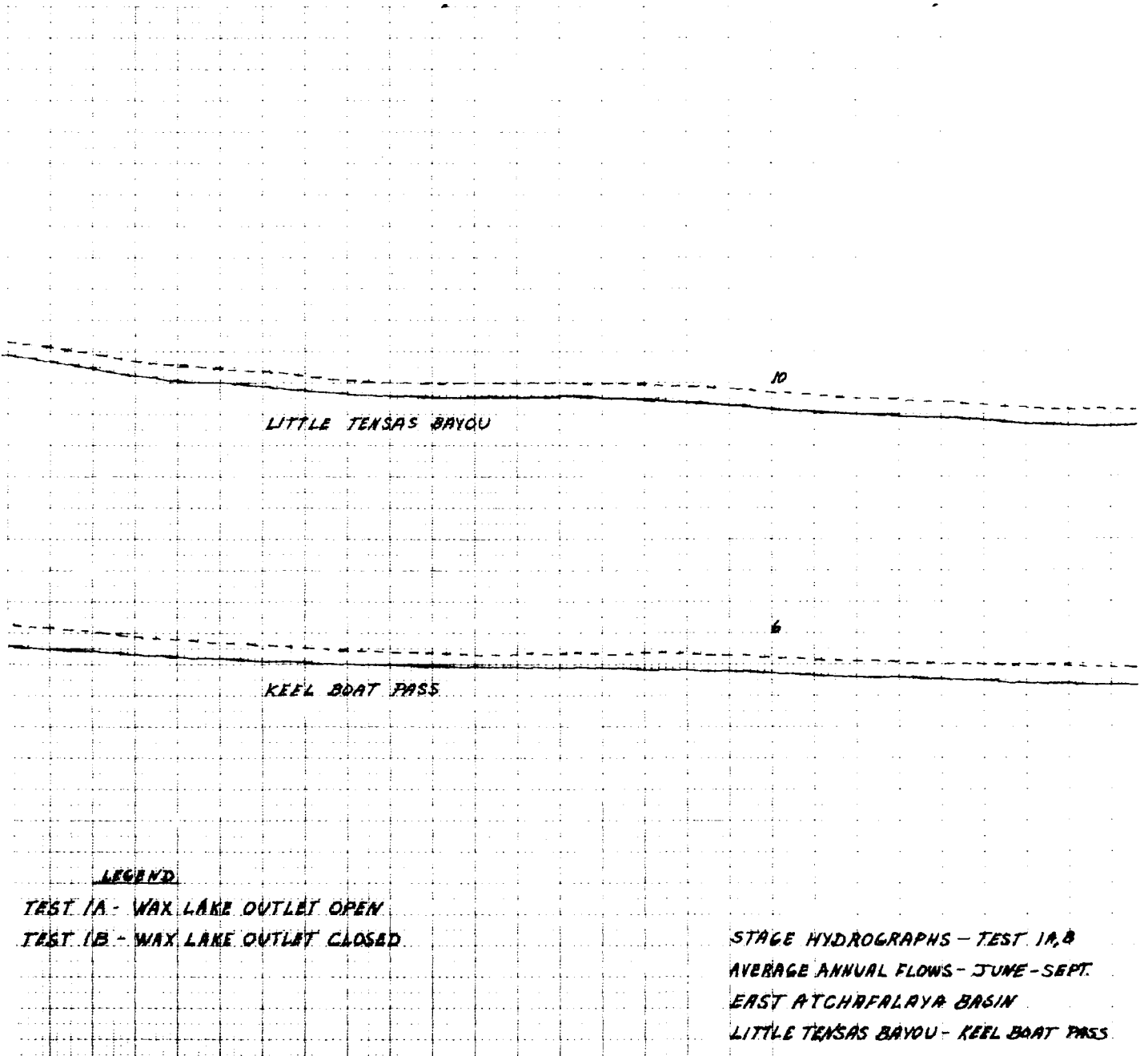
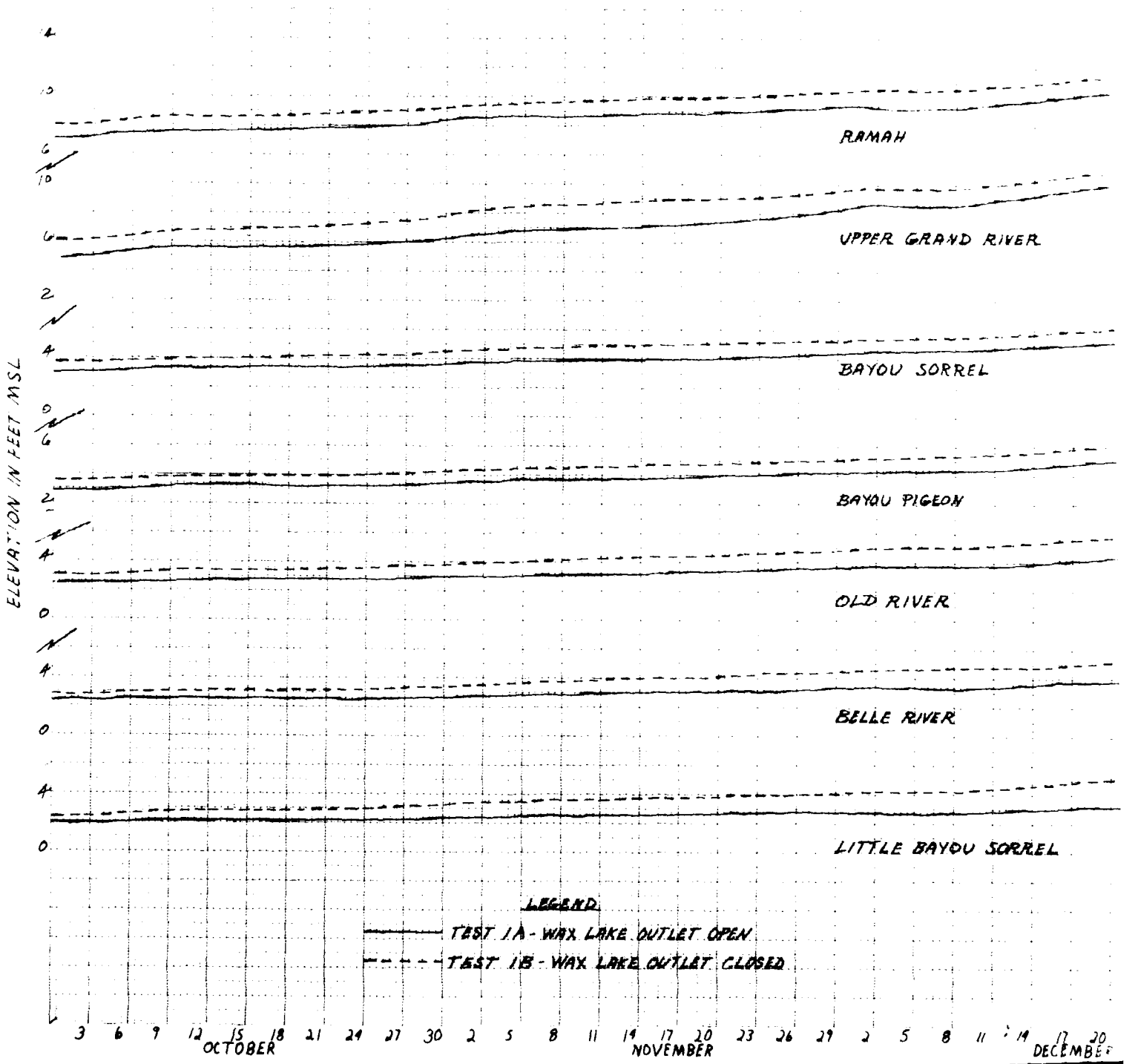
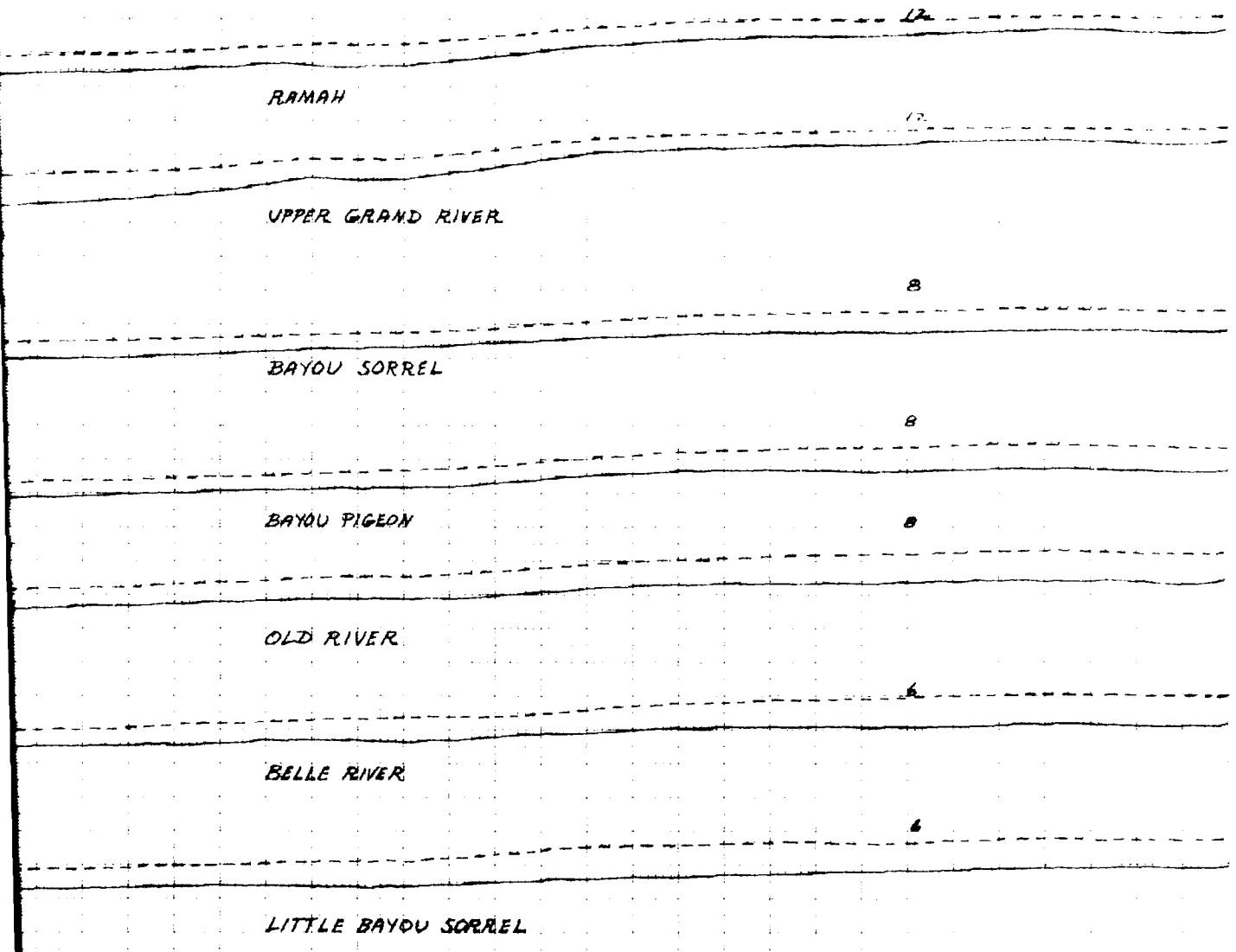
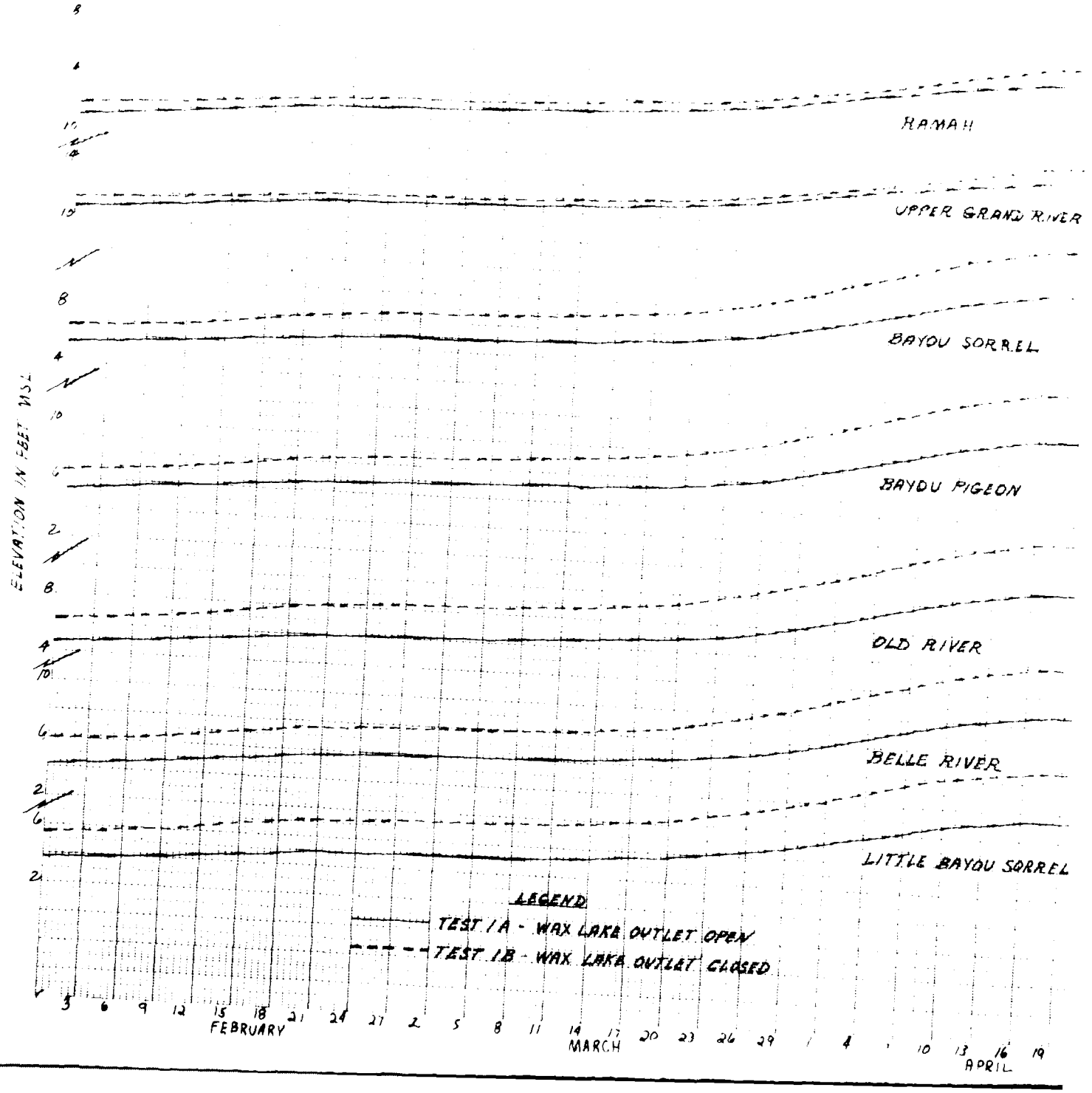

10
LITTLE TENSAS BAYOU
6
KEEL BOAT PASS
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS – TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

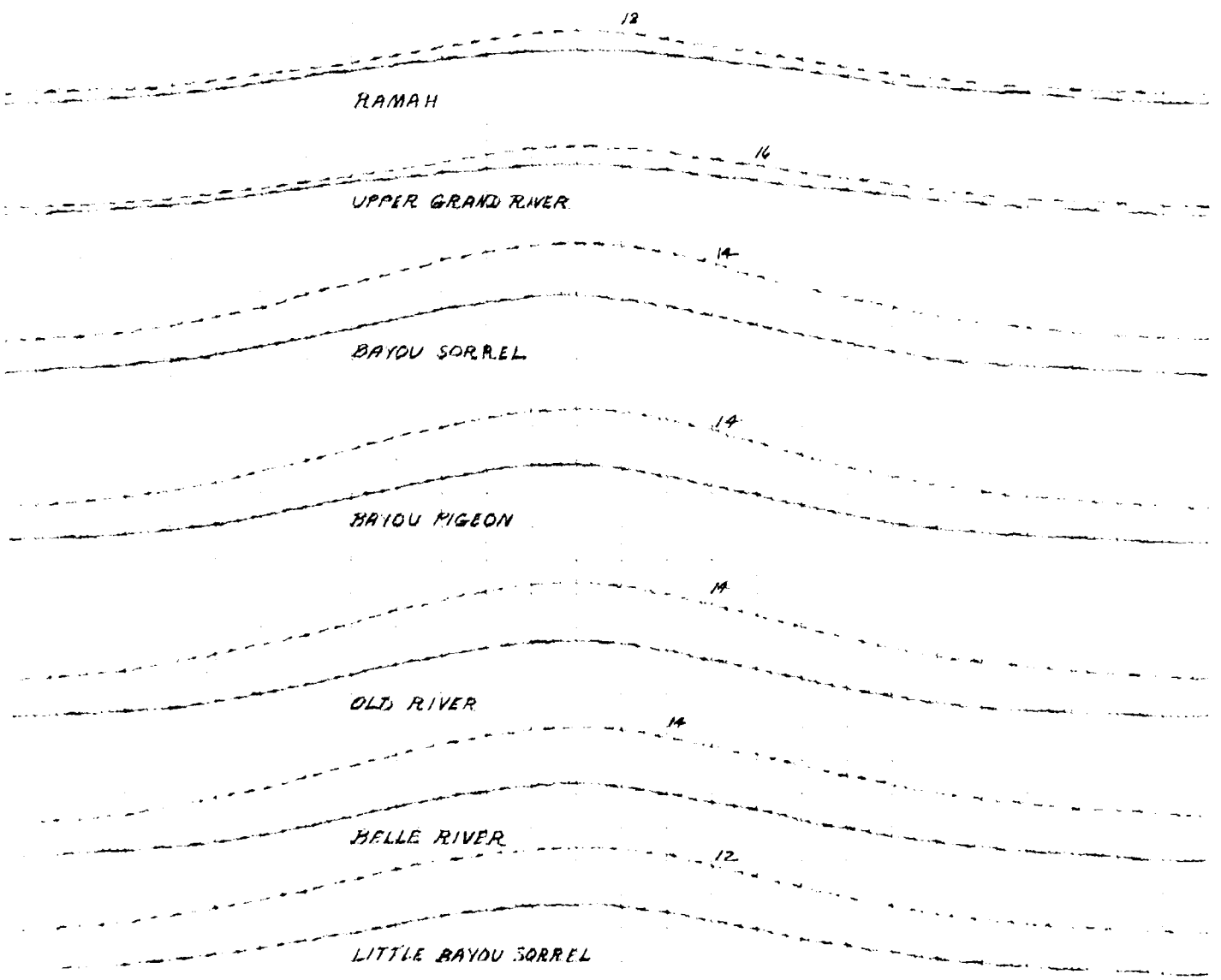
PLATE 31


ELEVATION IN FEET MSL
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER



STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL


RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
ELEVATION IN FEET MSL
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



ACE OUTLET OPEN

ACE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 1A,B

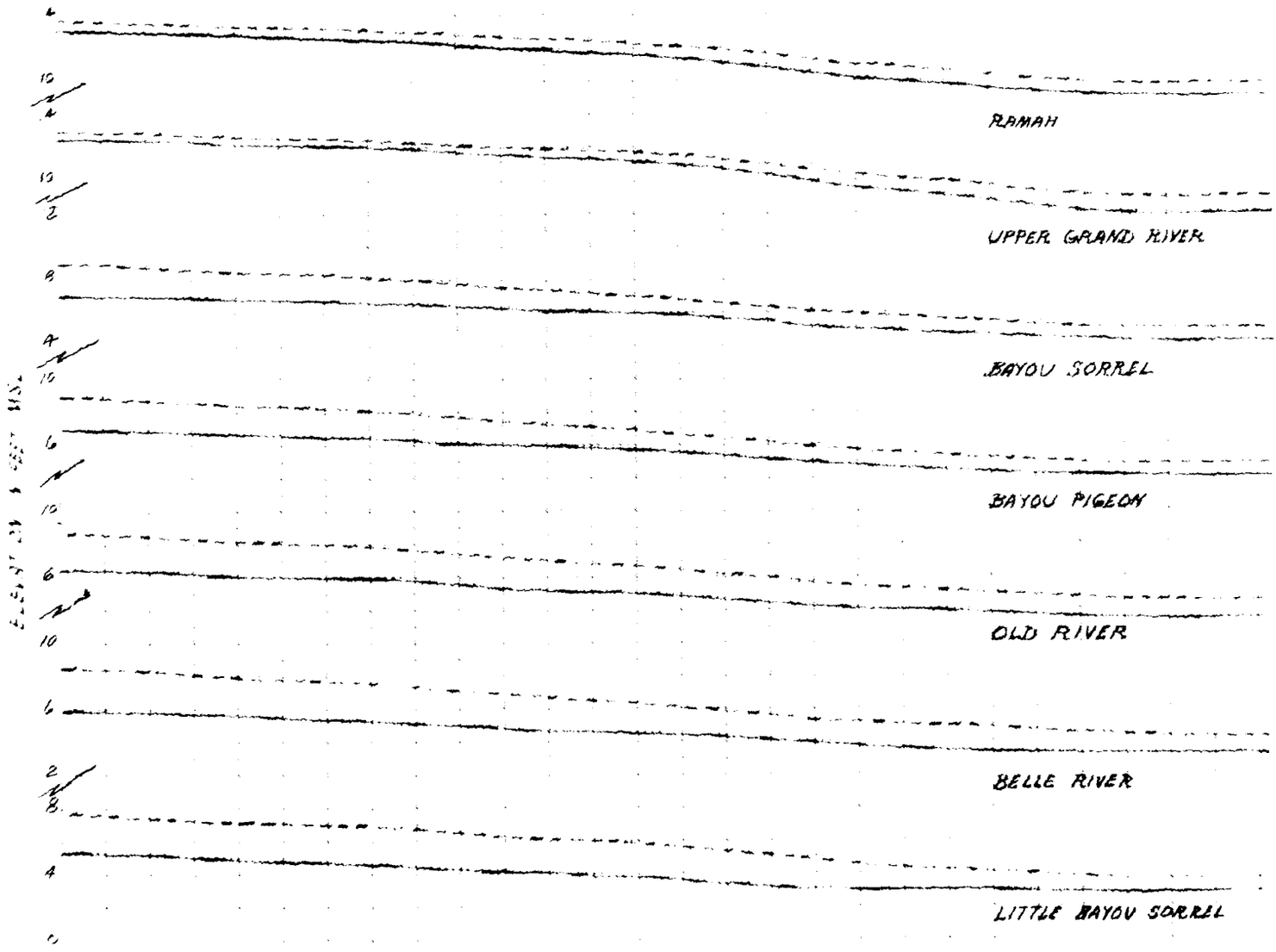
AVERAGE ANNUAL FLOWS - FEB - MAY

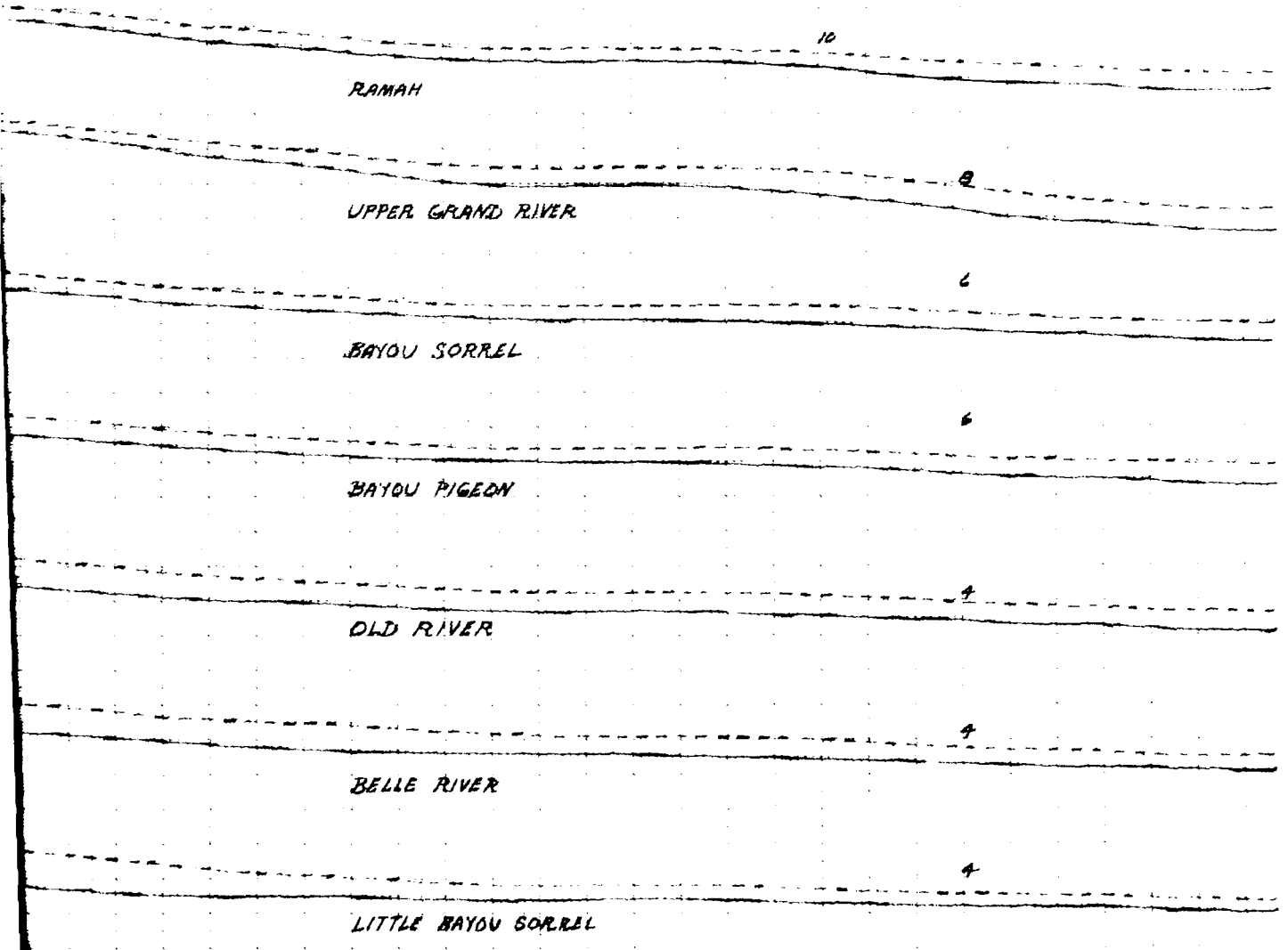
EAST ATCHAFALAYA BASIN

RAMAH - LITTLE BAYOU SORREL

1 6 11 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 1

APR MAY


RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 1A · WAX LAKE OUTLET OPEN
TEST 1B · WAX LAKE OUTLET CLOSED

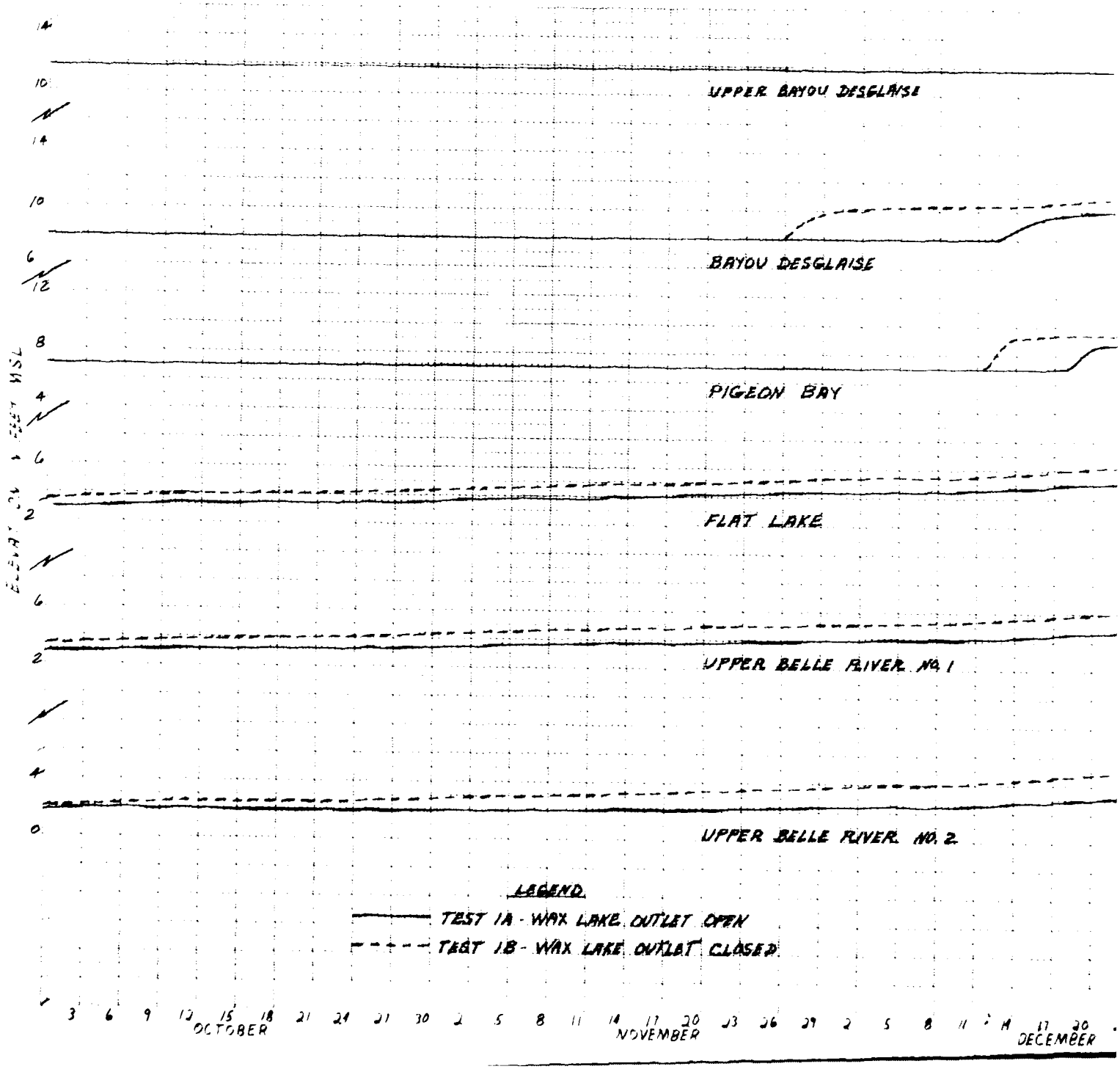


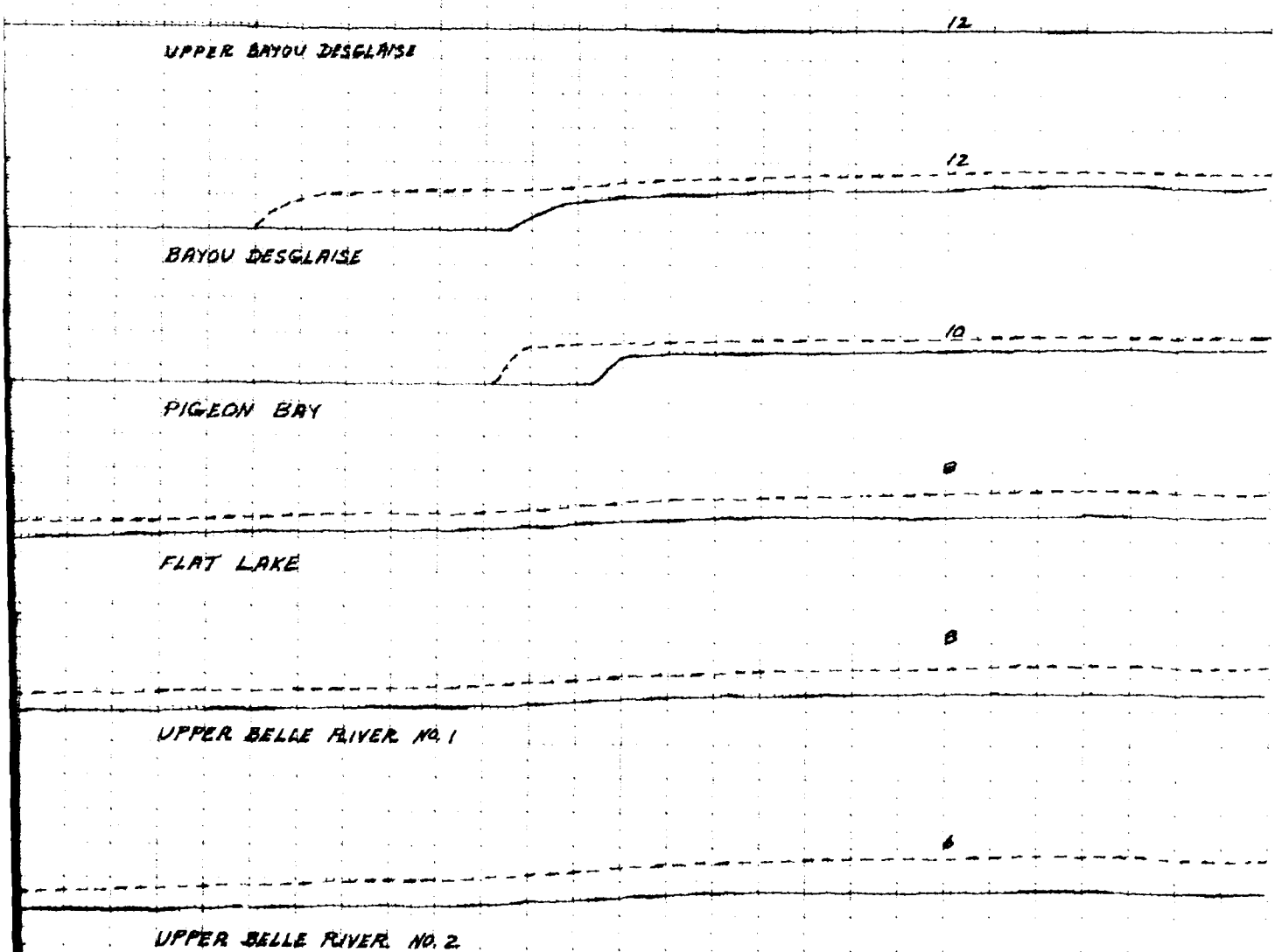
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL

KE OUTLET OPEN
KE OUTLET CLOSED

15 18 21 24 27 30 3 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY AUGUST SEPTEMBER

PLATE 34


UPPER BAYOU DESGLAISE
BAYOU DESGLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
ELEVATION IN FEET MSL
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

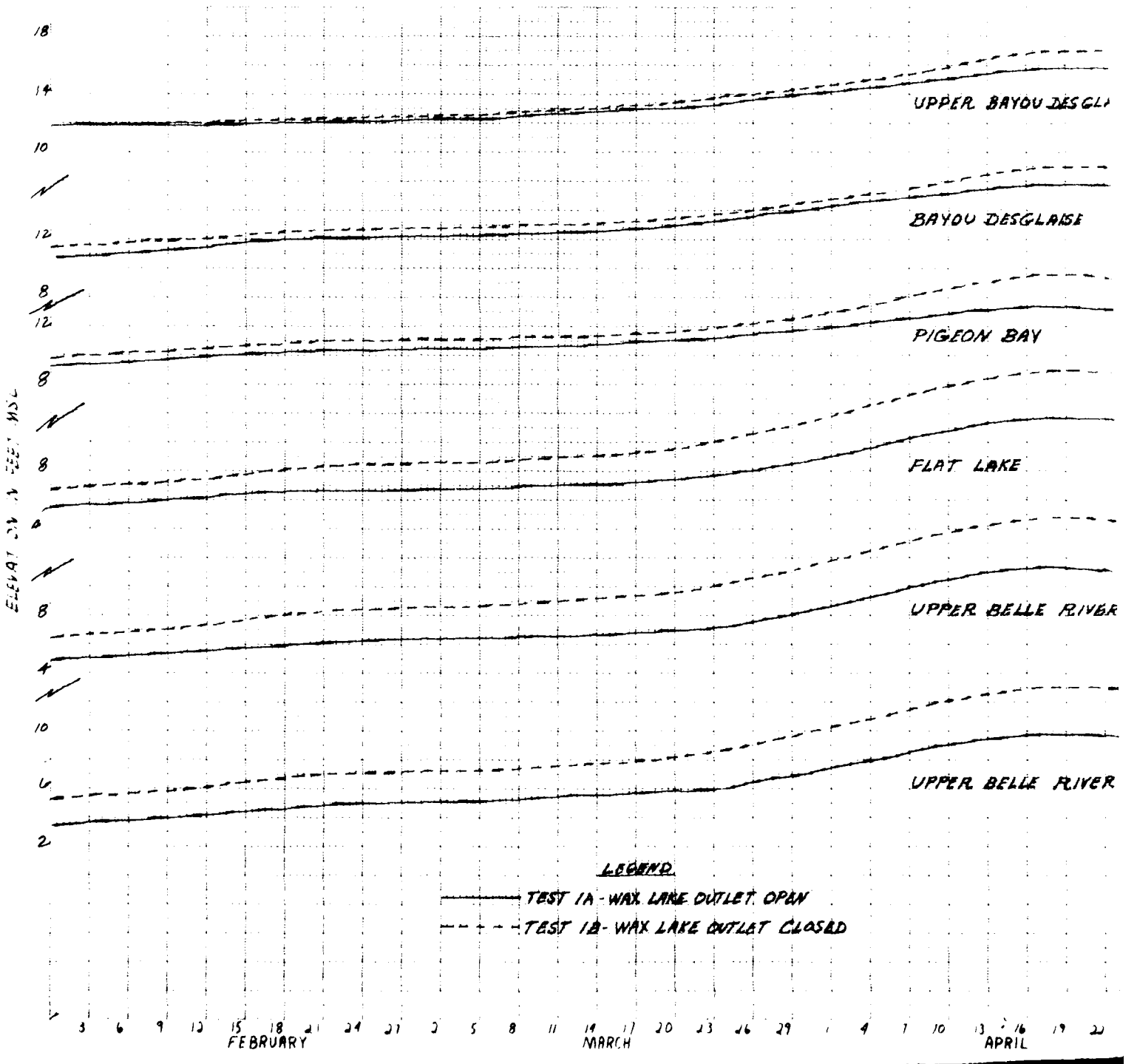


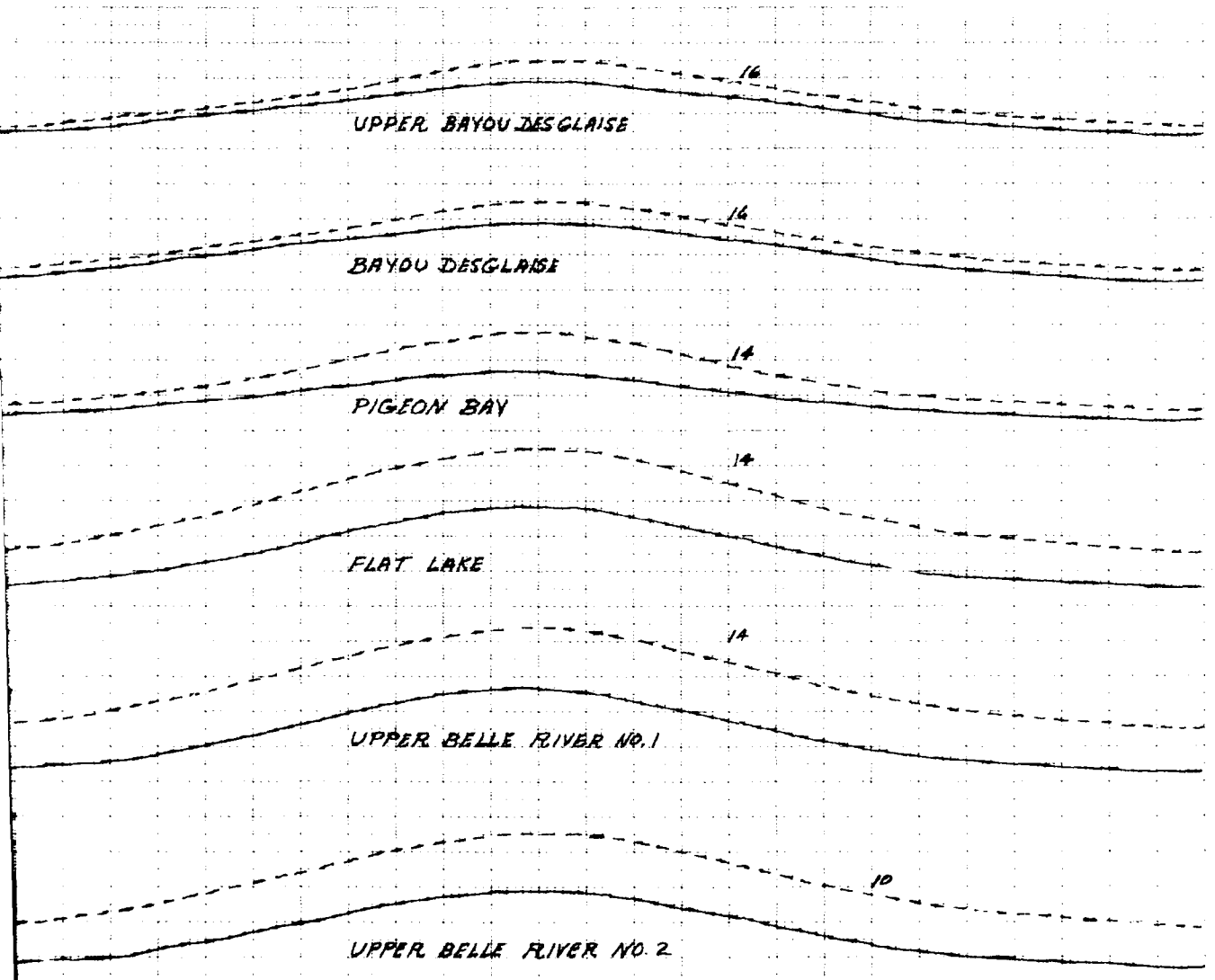
STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DESGLAISE - UPPER BELLE RIVER NO. 2

KE OUTLET OPEN
AKE OUTLET CLOSED

14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER DECEMBER JANUARY

PLATE 55

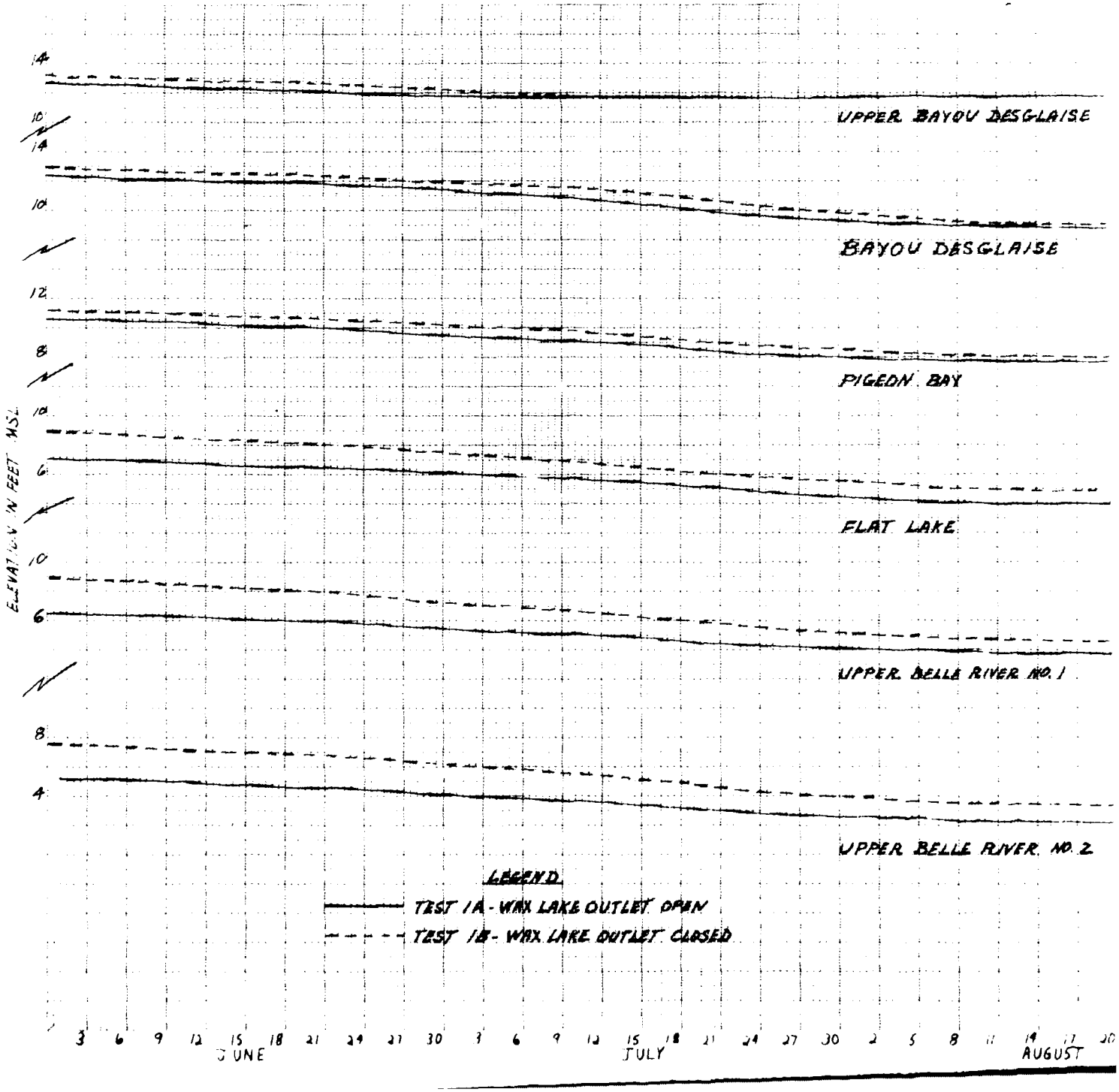

UPPER BAYOU DESGL
BAYOU DESGLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER
UPPER BELLE RIVER
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

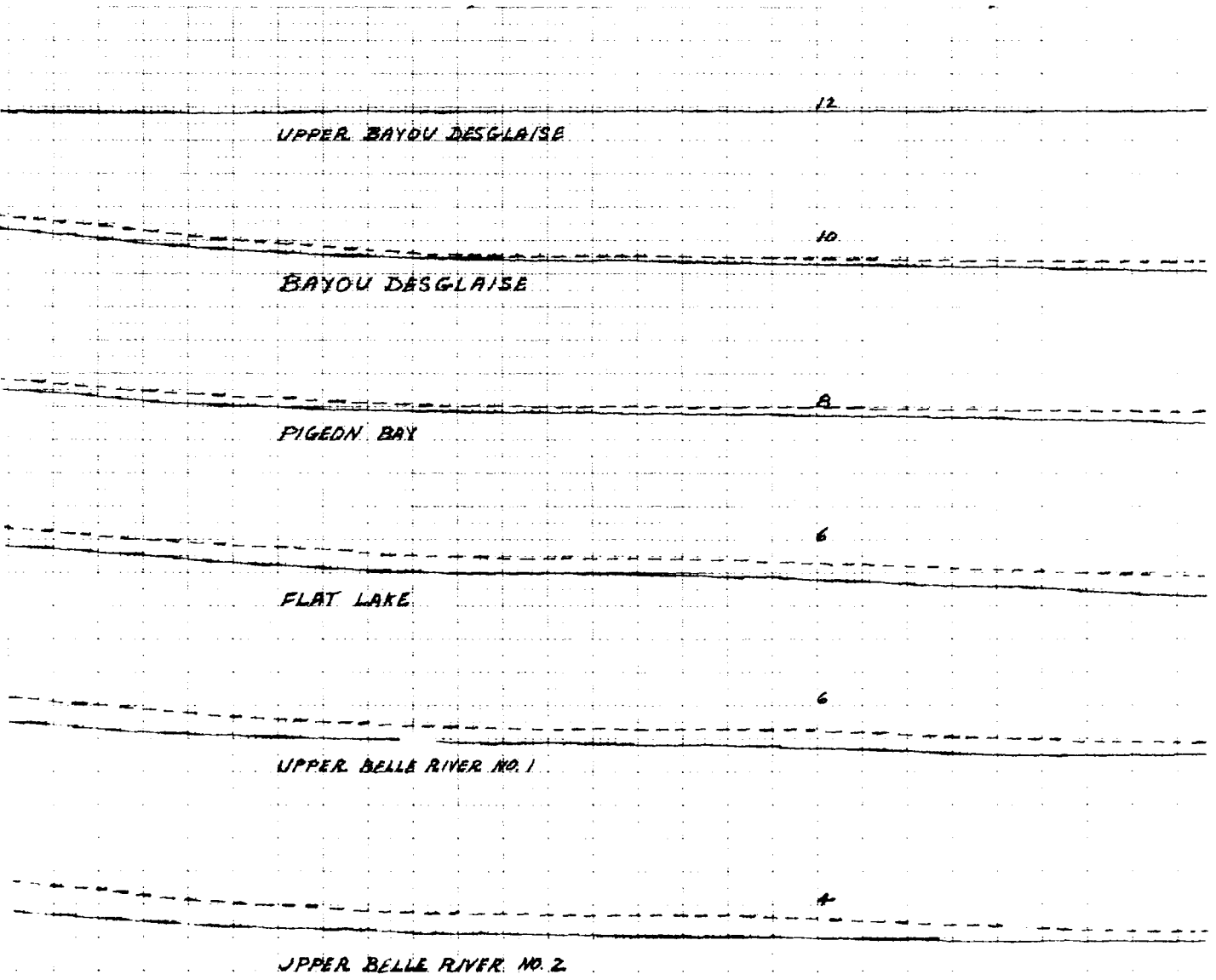


END
LAKE OUTLET OPEN
X LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - FEB - MAY
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DESGLAISE - UPPER BELLE RIVER NO. 2

20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL MAY

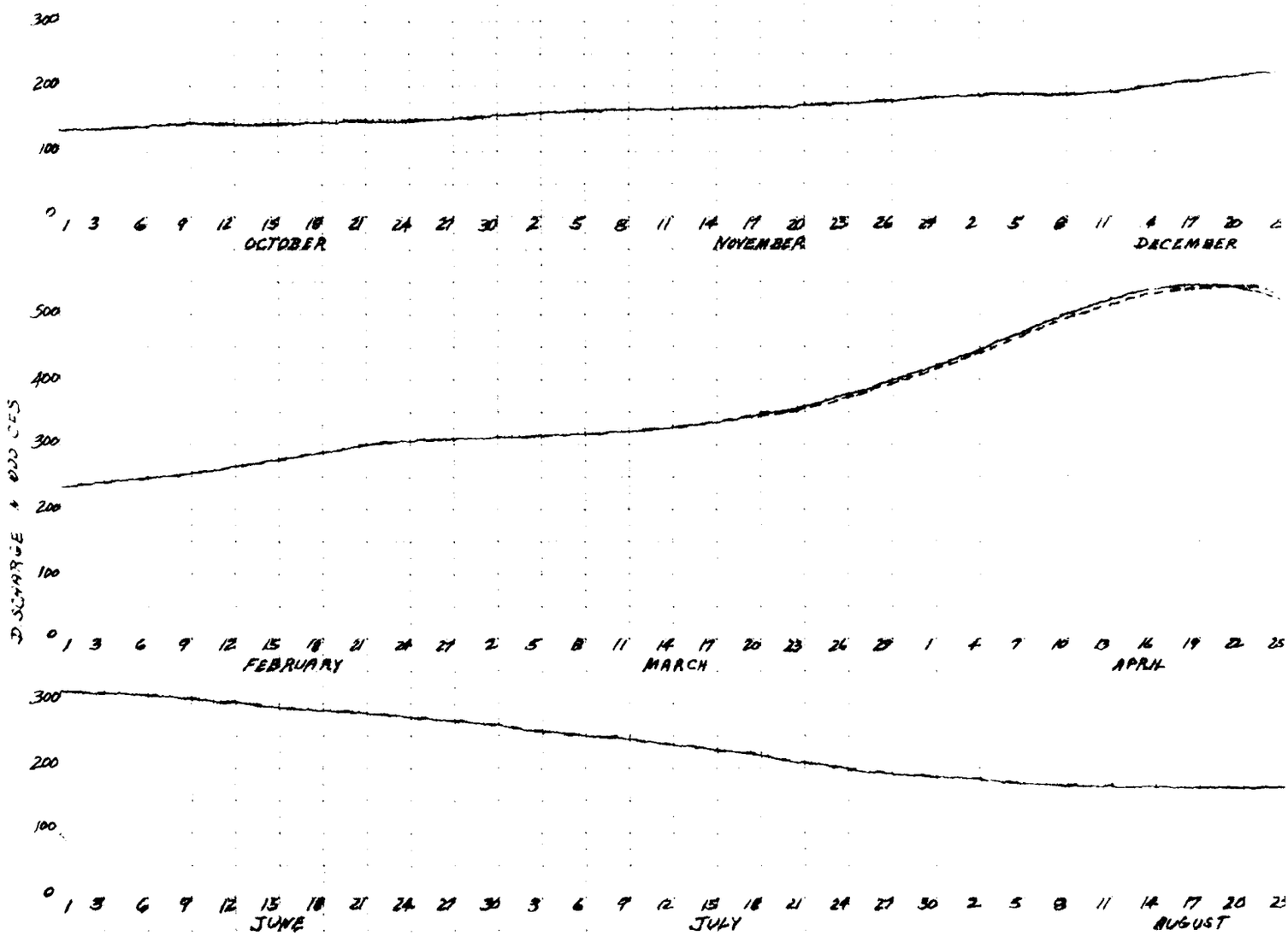

UPPER BAYOU DESGLAISE
BAYOU DESGLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
ELEVATION IN FEET MSL
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED
JUNE
JULY
AUGUST

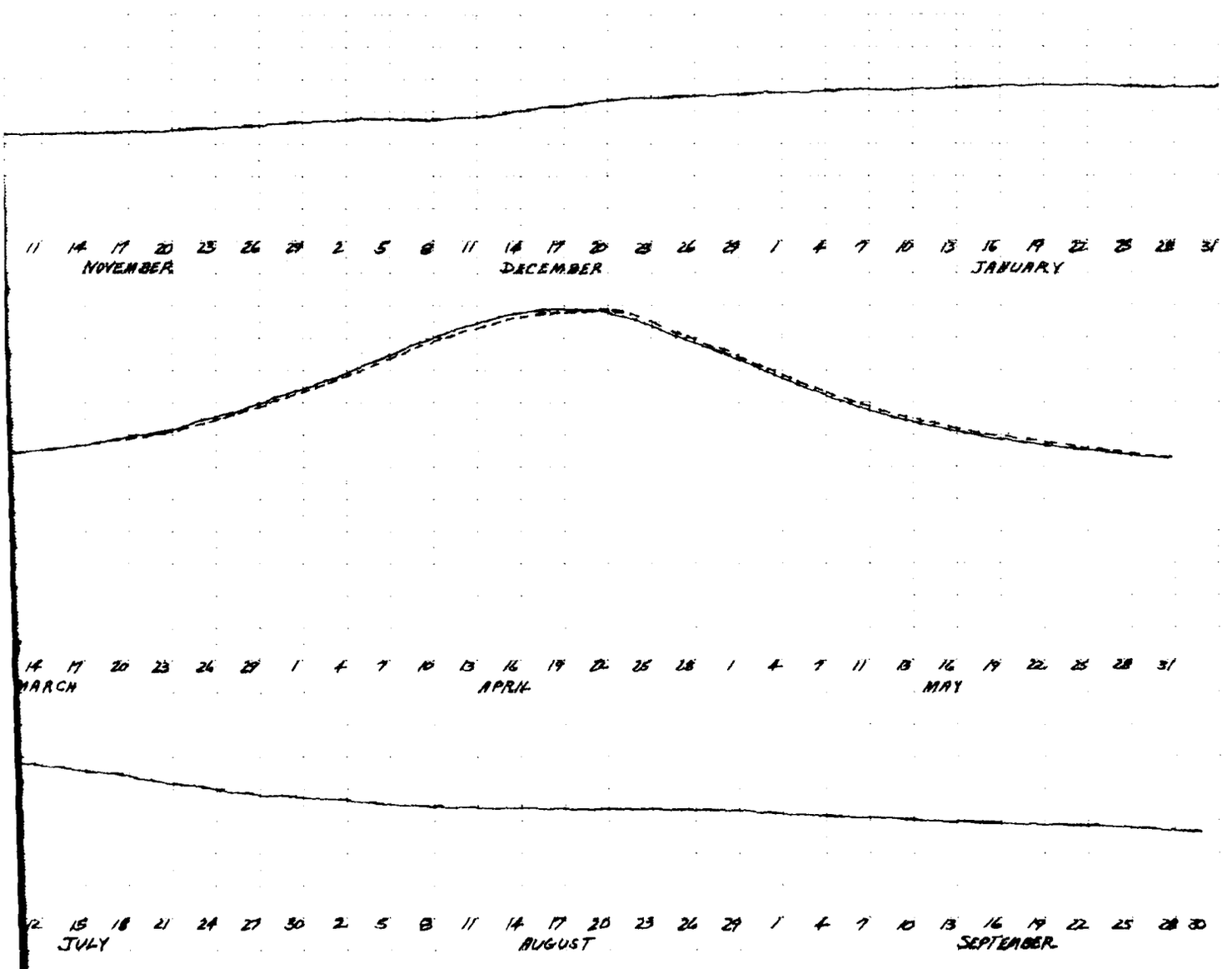


TLET OPEN
UTLET CLOSED

STAGE HYDROGRAPHS - TEST 1A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DESGLAISE - UPPER BELLE RIVER NO 2.

15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY AUGUST SEPTEMBER


DISCHARGE IN 000 CFS
300
200
100
0
1 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER
500
400
300
200
100
0
1 3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25
FEBRUARY
MARCH
APRIL
300
200
100
0
1 3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23
JUNE
JULY
AUGUST
LEGEND
TEST 1A - WAX LAKE OUTLET OPEN
TEST 1B - WAX LAKE OUTLET CLOSED



LEGEND

1A - WAX LAKE OUTLET OPEN

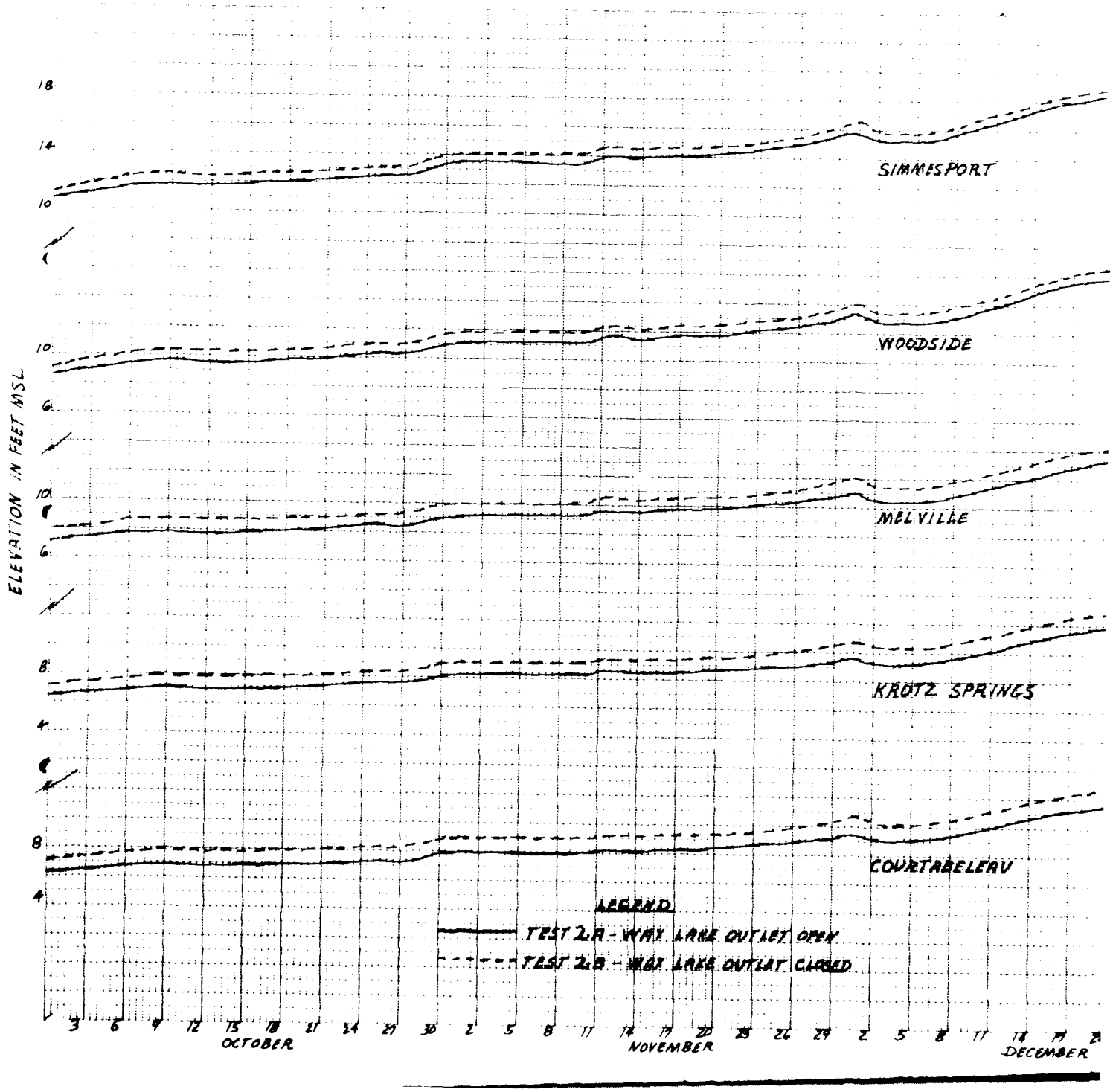
1B - WAX LAKE OUTLET CLOSED

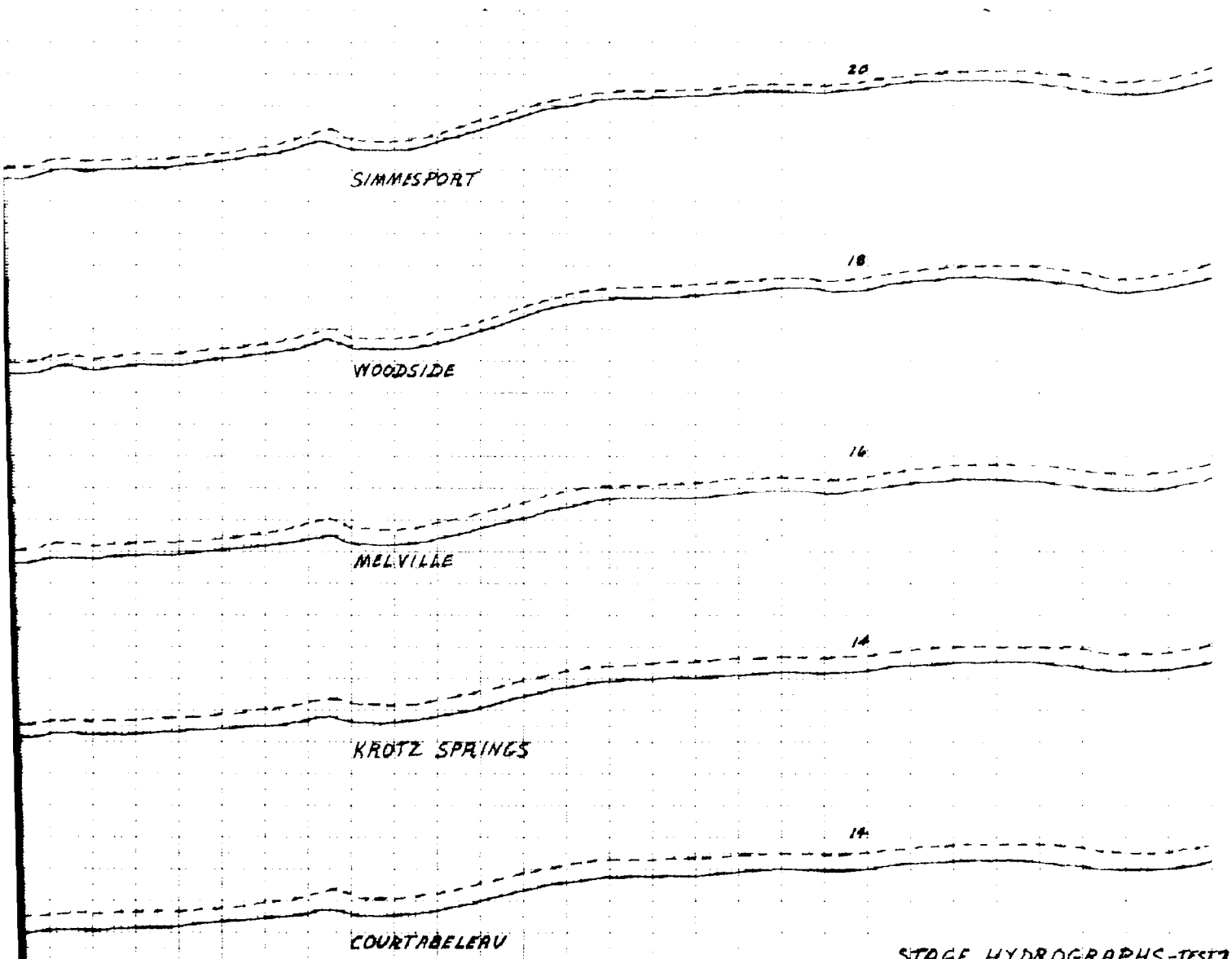
DISCHARGE HYDROGRAPHS - TEST 1A,B

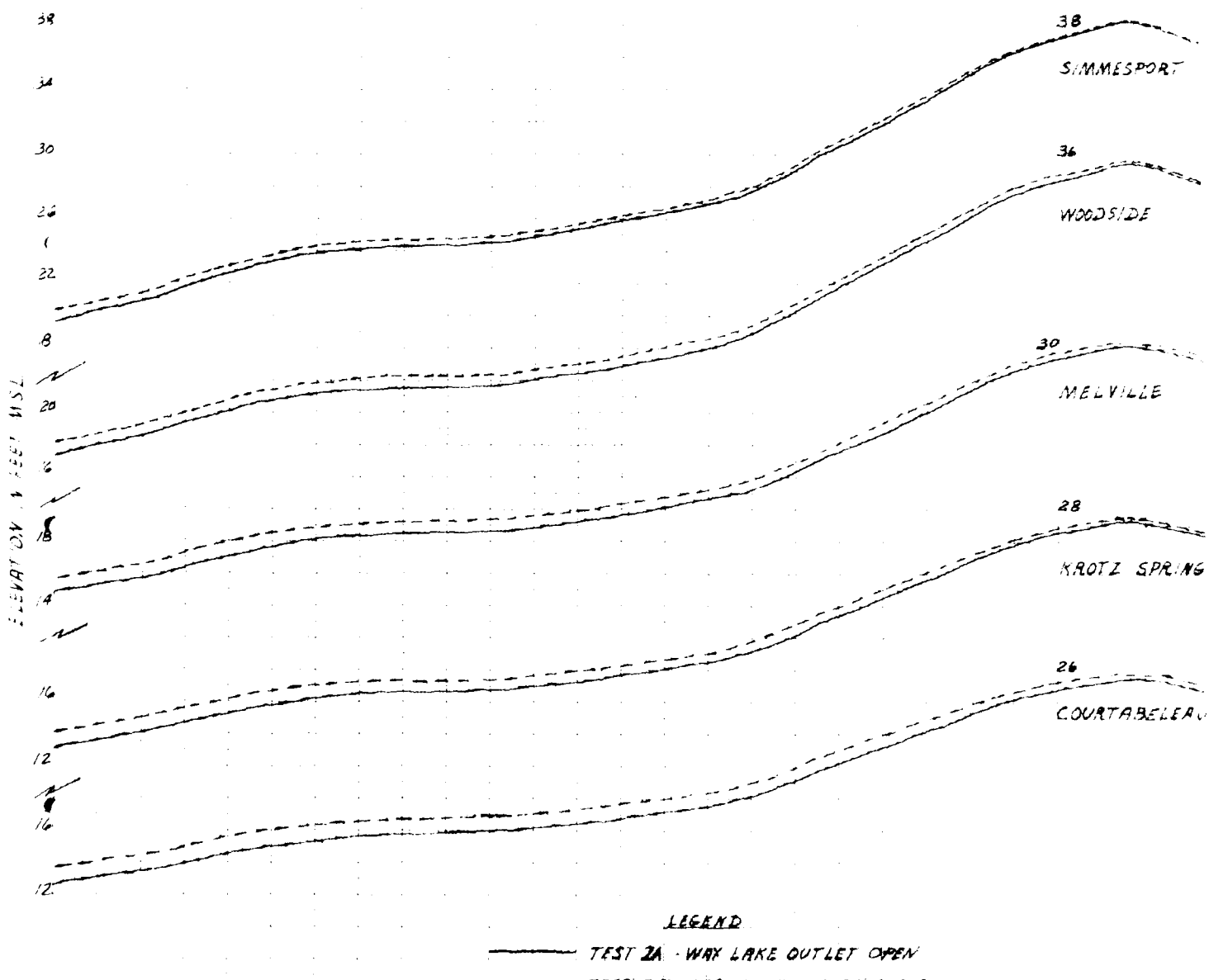
AVERAGE ANNUAL FLOWS - OCT - SEPT.

ATCHAFALAYA BAY

EUGENE ISLAND, LA

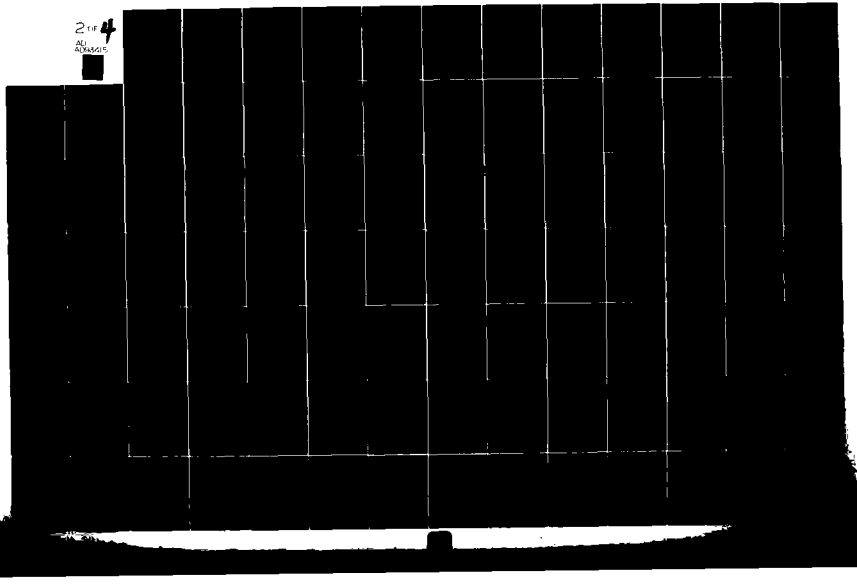

ELEVATION IN FEET MSL
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABELEAU
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

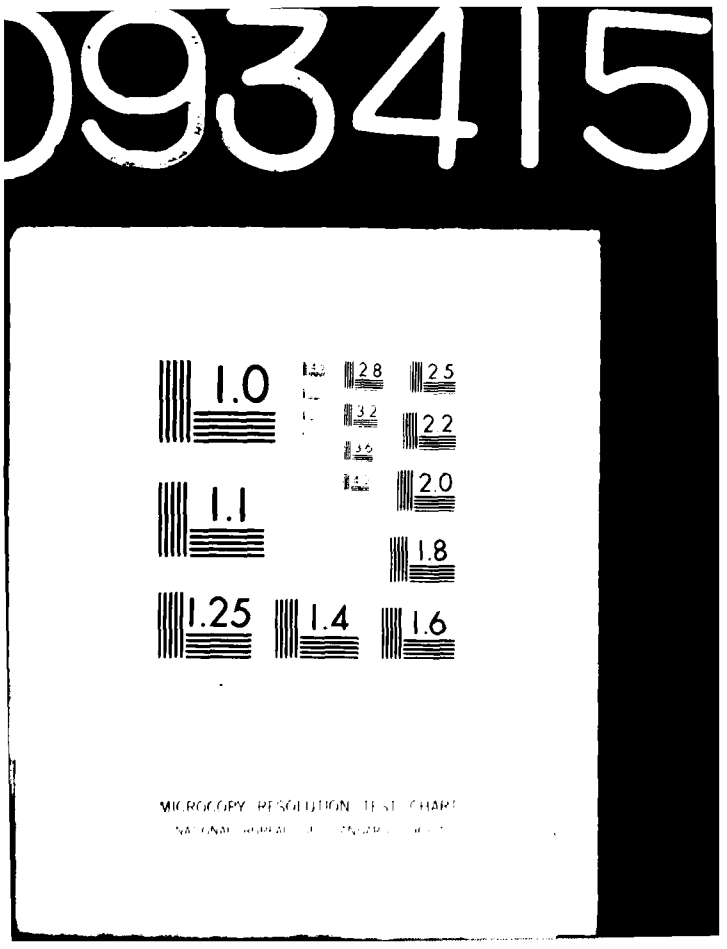

20
SIMMESPORT
18
WOODSIDE
16
MELVILLE
14
KROTZ SPRINGS
14
COURTABELEAU
LEGEND
2.A - WAX LAKE OUTLET OPEN
2.B - WAX LAKE OUTLAT CLOSED
STAGE HYDROGRAPHS-TEST 2.A, B
AVERAGE ANNUAL FLOW - OCT-JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
NOVEMBER
DECEMBER
JANUARY


38
SIMMESPORT
36
WOODSIDE
30
MELVILLE
28
KROTZ SPRING
26
COURTABELEAU
ELEVATION, IN FEET MSL
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH

AD-A093 415 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS F/G 13/2
EFFECTS OF CLOSING WAX LAKE OUTLET AND CONSTRUCTING MANAGEMENT --ETC(U)
NOV 80 J E FOSTER, J V ALLEN IAO-LMNED-79-46
UNCLASSIFIED WES-MISS-BASIN MODEL-31-8 NL

2 OF 4
ALL ANALYSIS




093415
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART

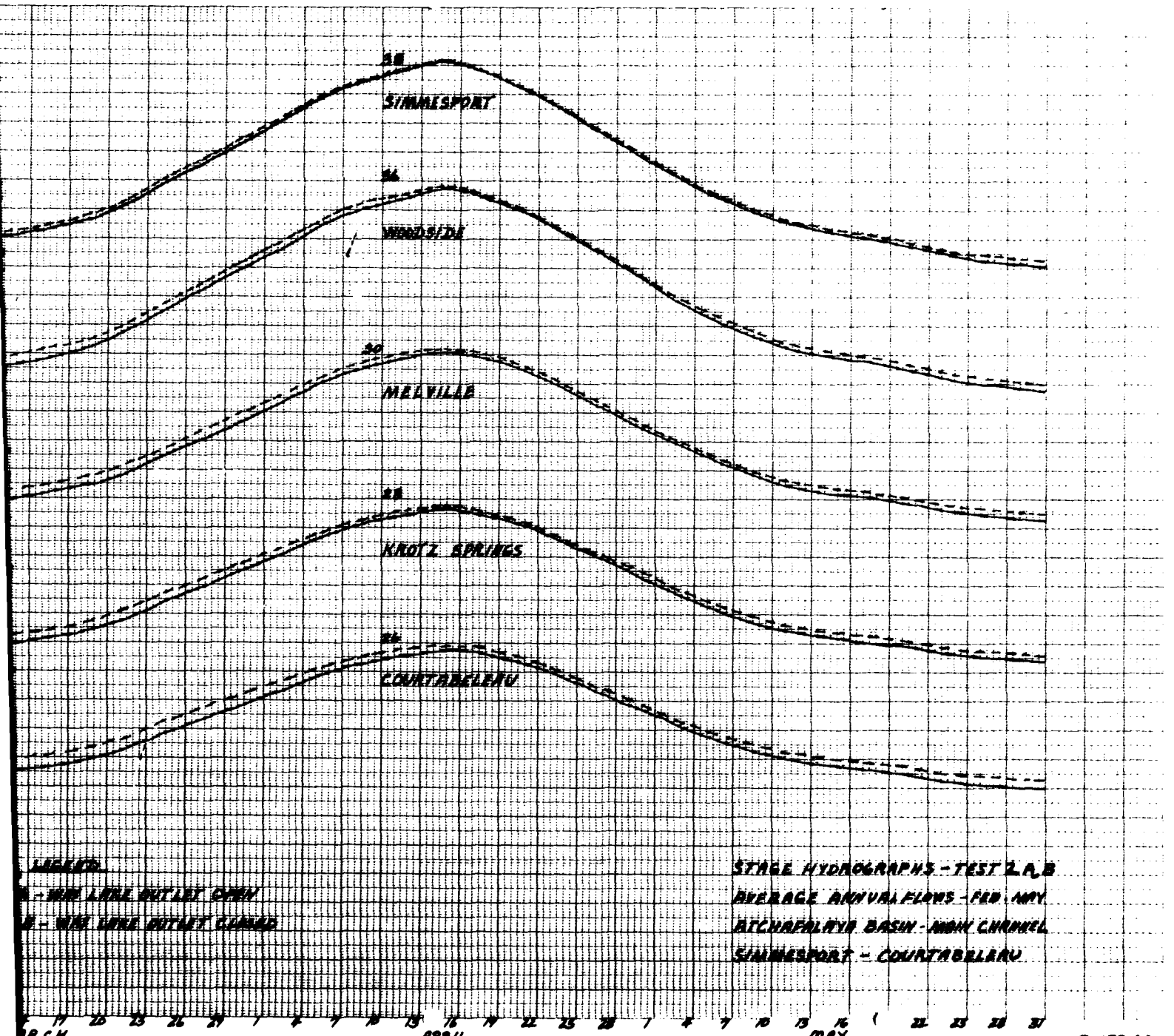
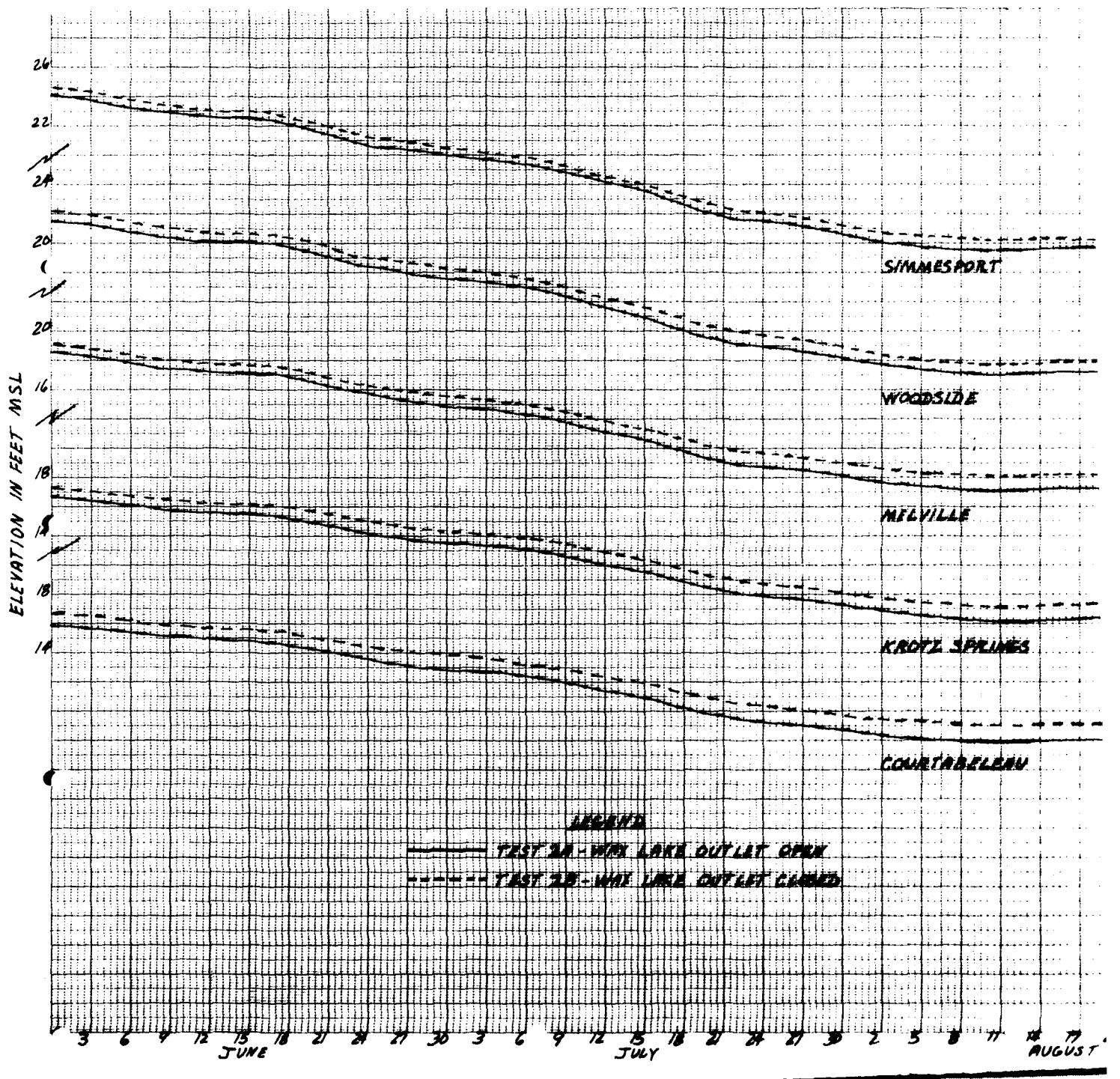

SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABELEAU
LEGEND
STAGE HYDROGRAPHS - TEST 2 A, B
AVERAGE ANNUAL FLOWS - FEB. MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
MARCH
APRIL
MAY

PLATE 40


ELEVATION IN FEET MSL
26
22
24
20
20
16
18
18
14
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABLEAU
LEGEND
TEST 2B - WHX LAKE OUTLET OPEN
TEST 2B - WHX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

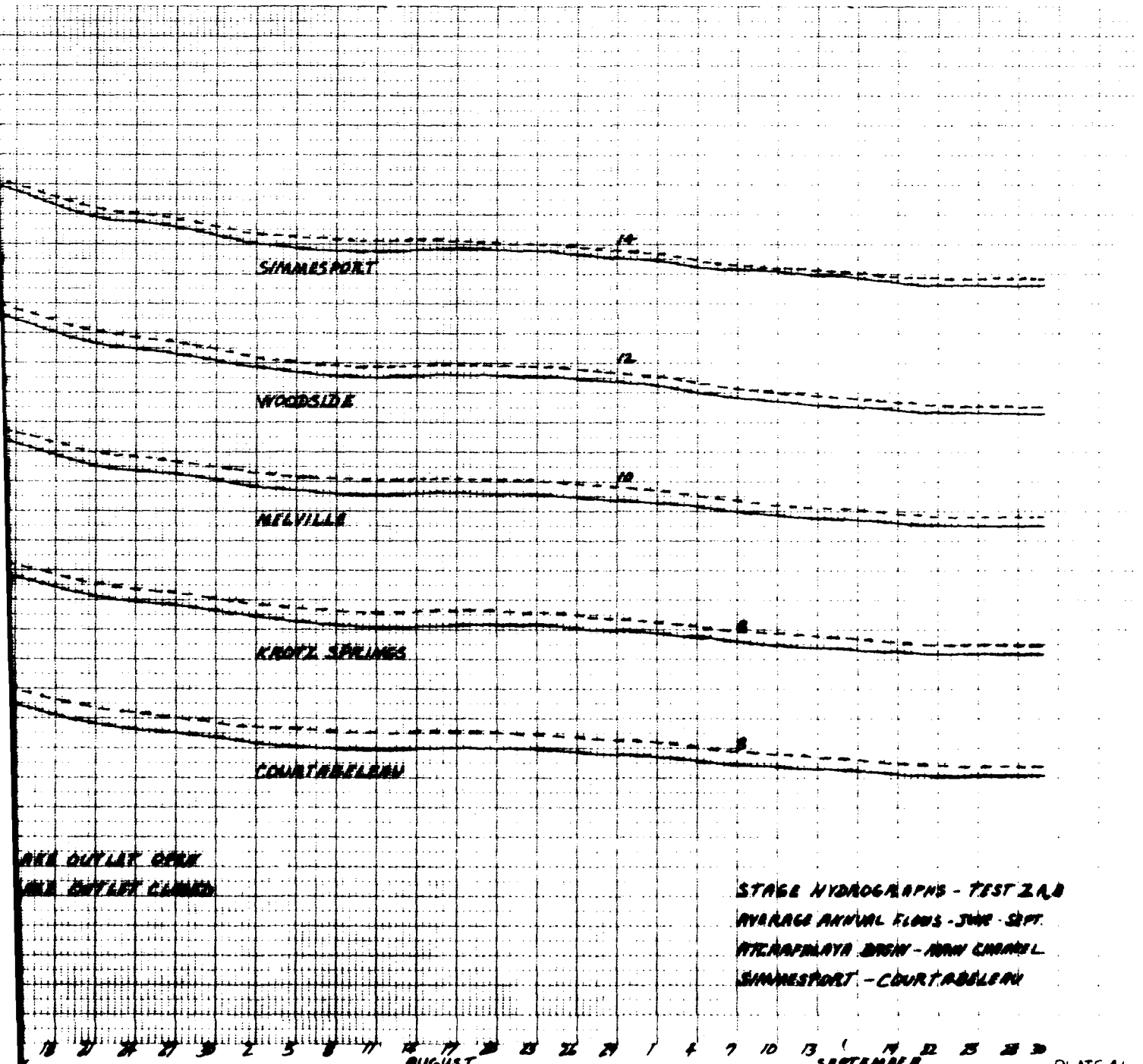
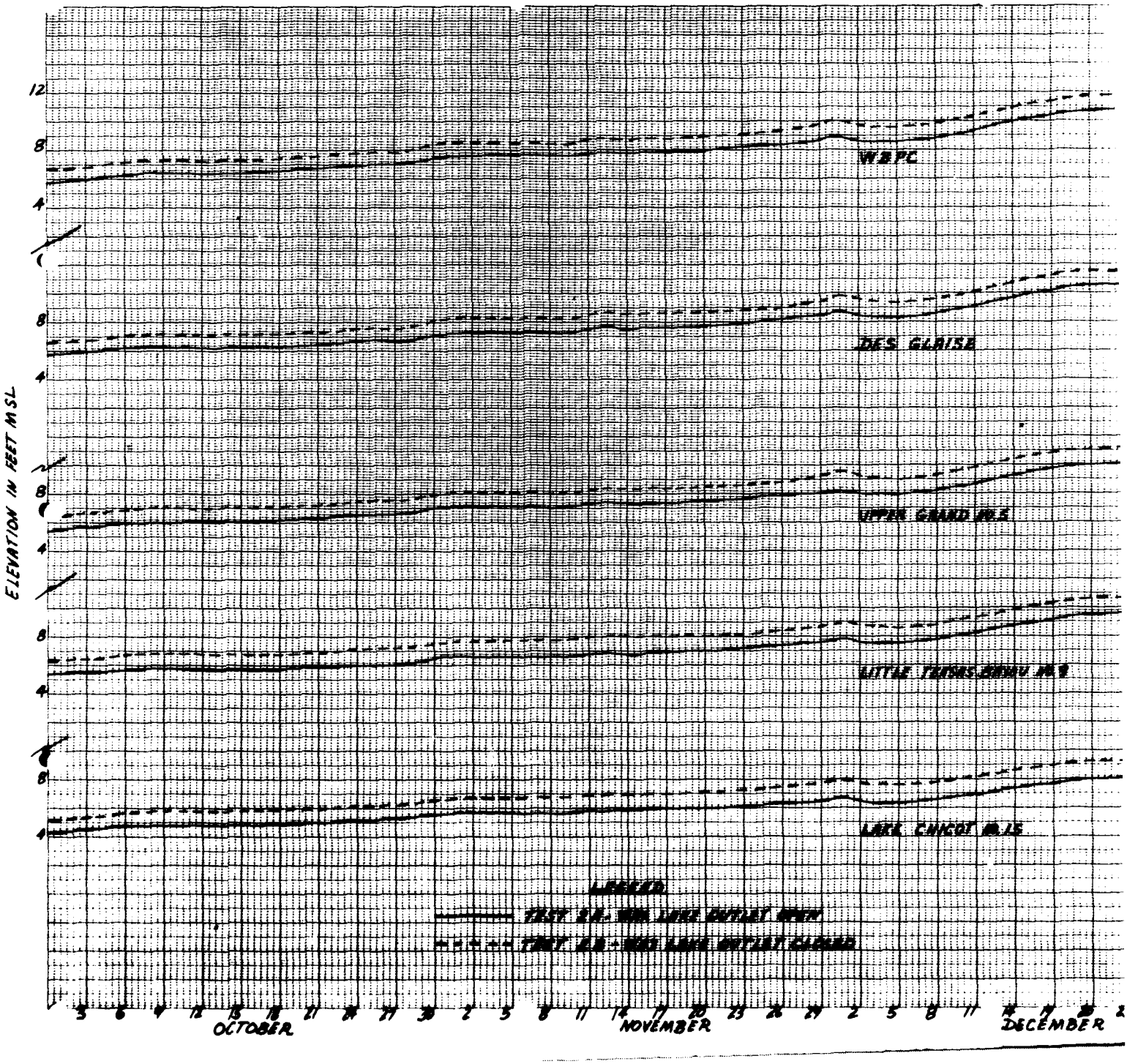

SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABLEAU
AKE OUTLET OPEN
AKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABLEAU
AUGUST
SEPTEMBER

PLATE 41


ELEVATION IN FEET MSL
12
8
4
WBPC
DES GLAISE
UPPER GRAND RES
LITTLE FRENCH CREEK RES
LAKE CHICOT RES
LEGEND
TEST 2A - WITH LAKE OUTLET OPEN
TEST 2B - WITH LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

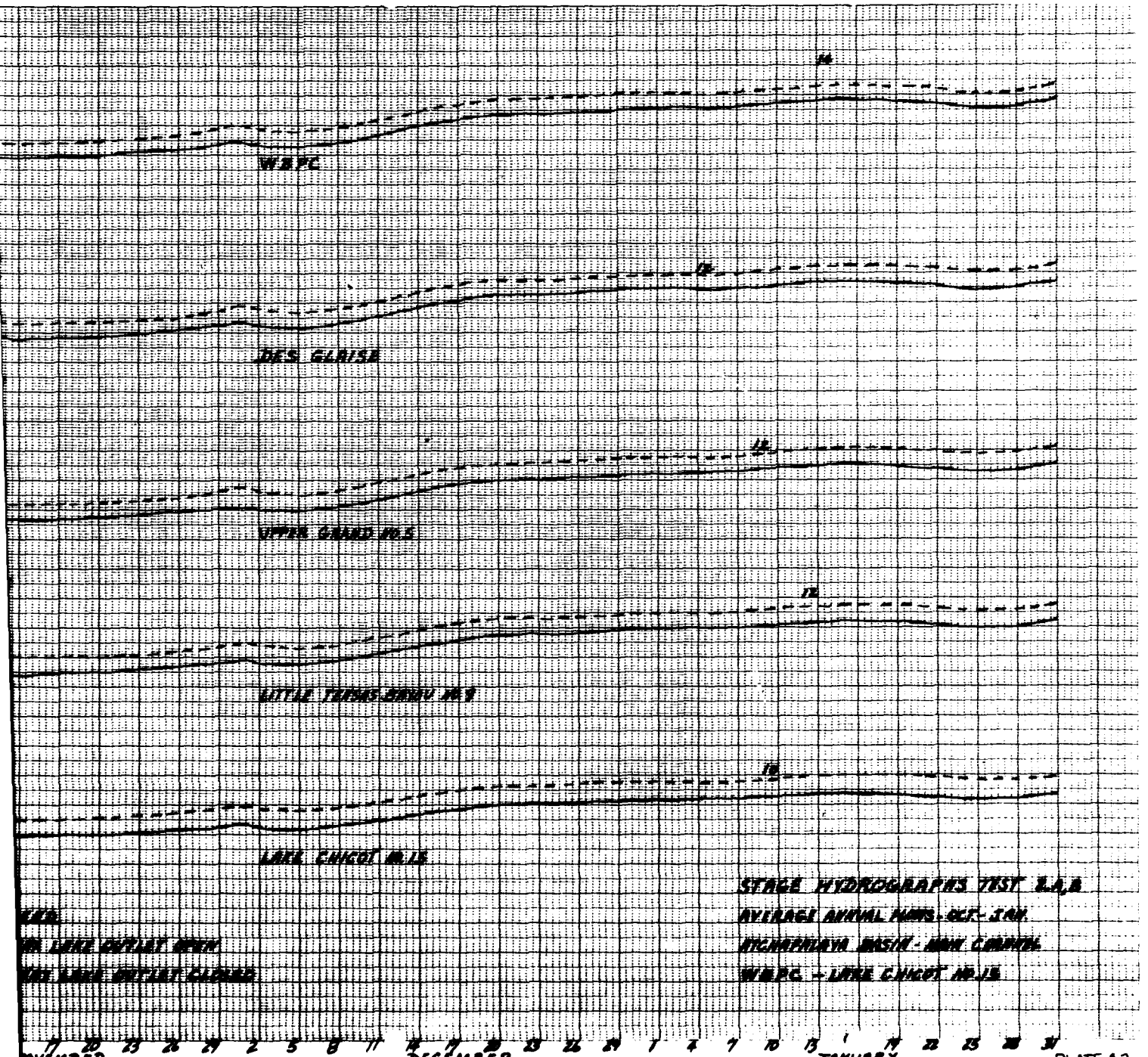
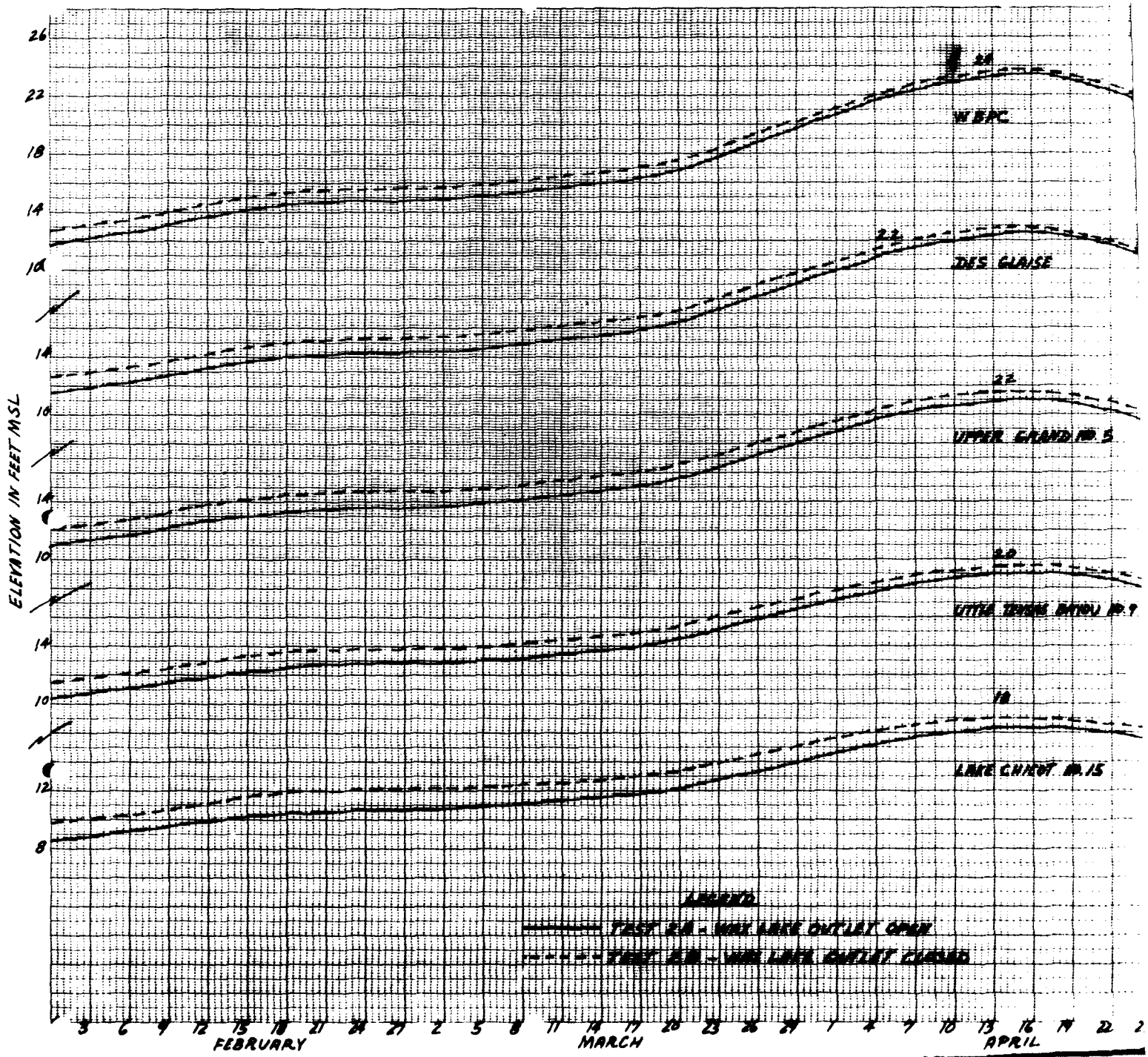

WRPC
DES GLAISE
UPPER GRAND NR. S
LITTLE FORKS BRNCH NR. 2
LAKE CHICOT NR. LS
STAGE HYDROGRAPHS TEST L.A.B
AVERAGE ANNUAL MAPS - OCT - JAN
RED RIVER BASIN - ABOVE CANADA
WRPC - LAKE CHICOT NR. LS
NOVEMBER
DECEMBER
JANUARY

PLATE 42


ELEVATION IN FEET MSL
26
22
18
14
10
14
10
14
10
14
10
12
8
W.B.P.C.
DES GLAISE
UPPER GRAND RD. 5
LITTLE TENSAS BAYOU RD. 9
LAKE CHICOT RD. 15
LEGEND
TEST 2.0 - WHEN LAKE OUTLET OPEN
TEST 2.0 - WHEN LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL

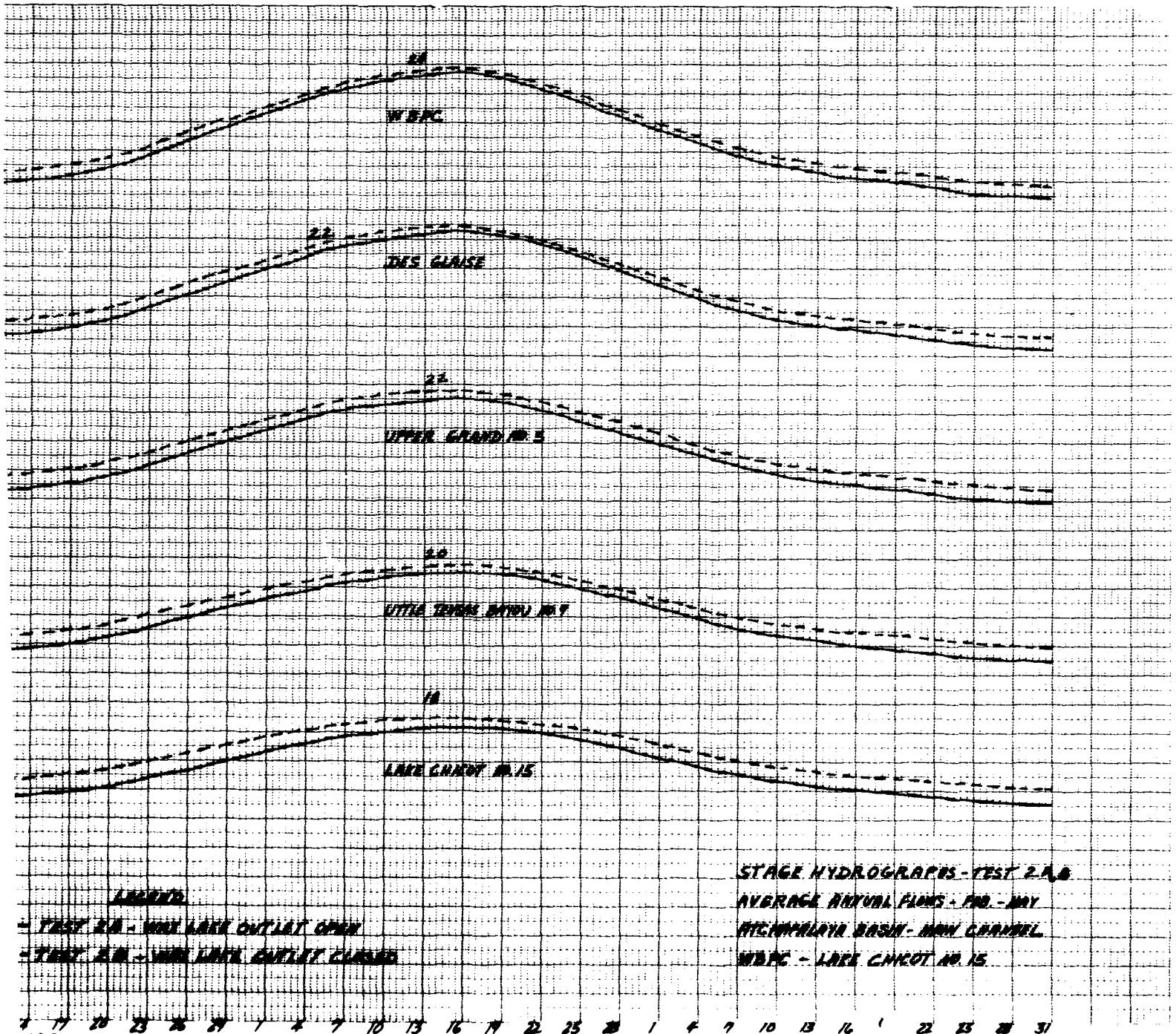
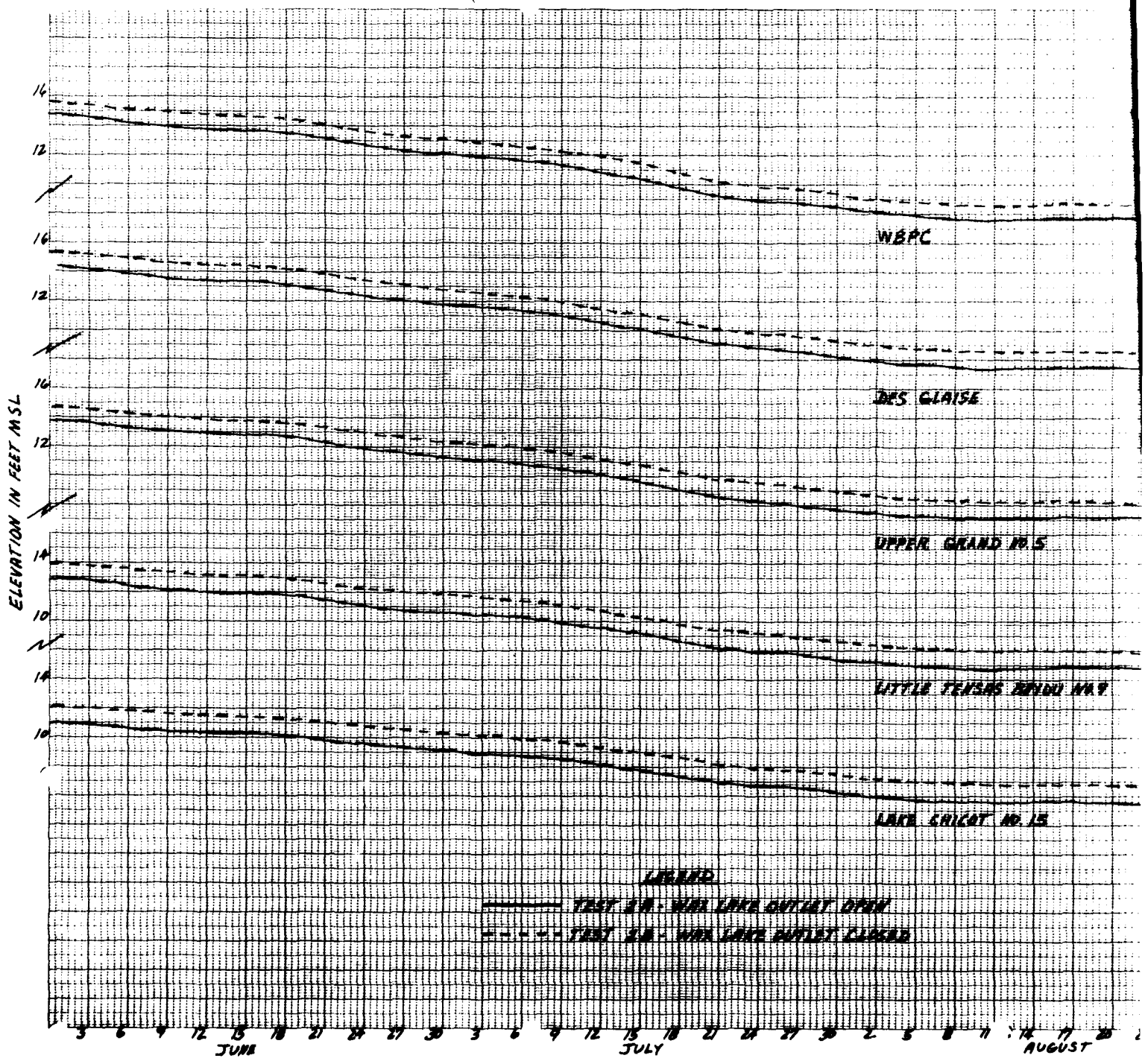

2A
WBPC
2Z
DES GLAISE
2Z
UPPER GRAND NO. 5
2Q
LITTLE TENSAS BAYOU NO. 7
1B
LAKE CHICOT NO. 15
LEGEND
- TEST 2A - MAIN LAKE OUTLET OPEN
- TEST 2B - MAIN LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
MCHM/MRVA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
MARCH
APRIL
MAY

PLATE 43


ELEVATION IN FEET MSL
16
12
16
12
16
12
14
10
14
10
WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO. 9
LAKE CHICOT NO. 15
LEGEND
TEST 2A - WEB LAKE OUTLET OPEN
TEST 2B - WEB LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST

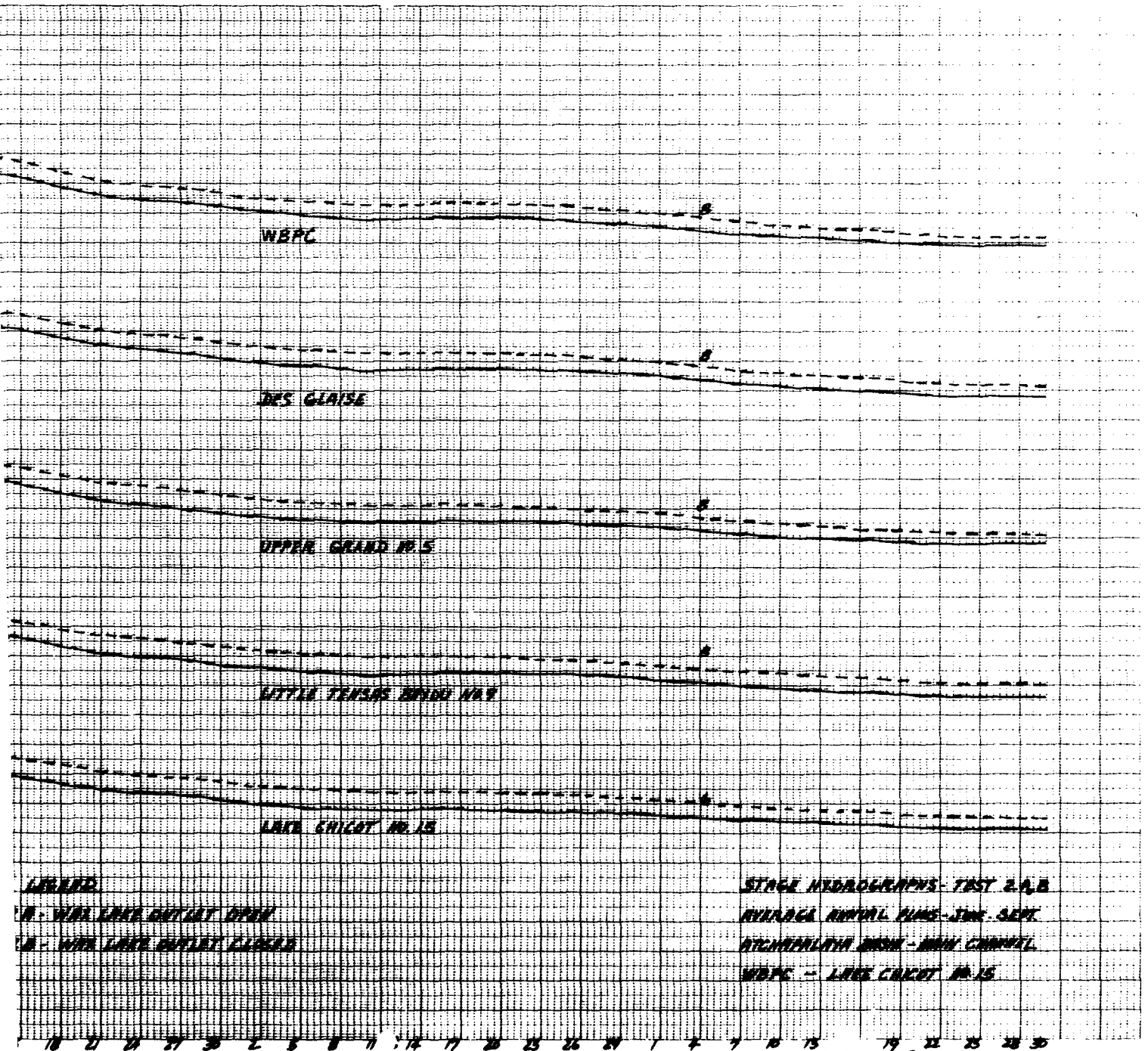
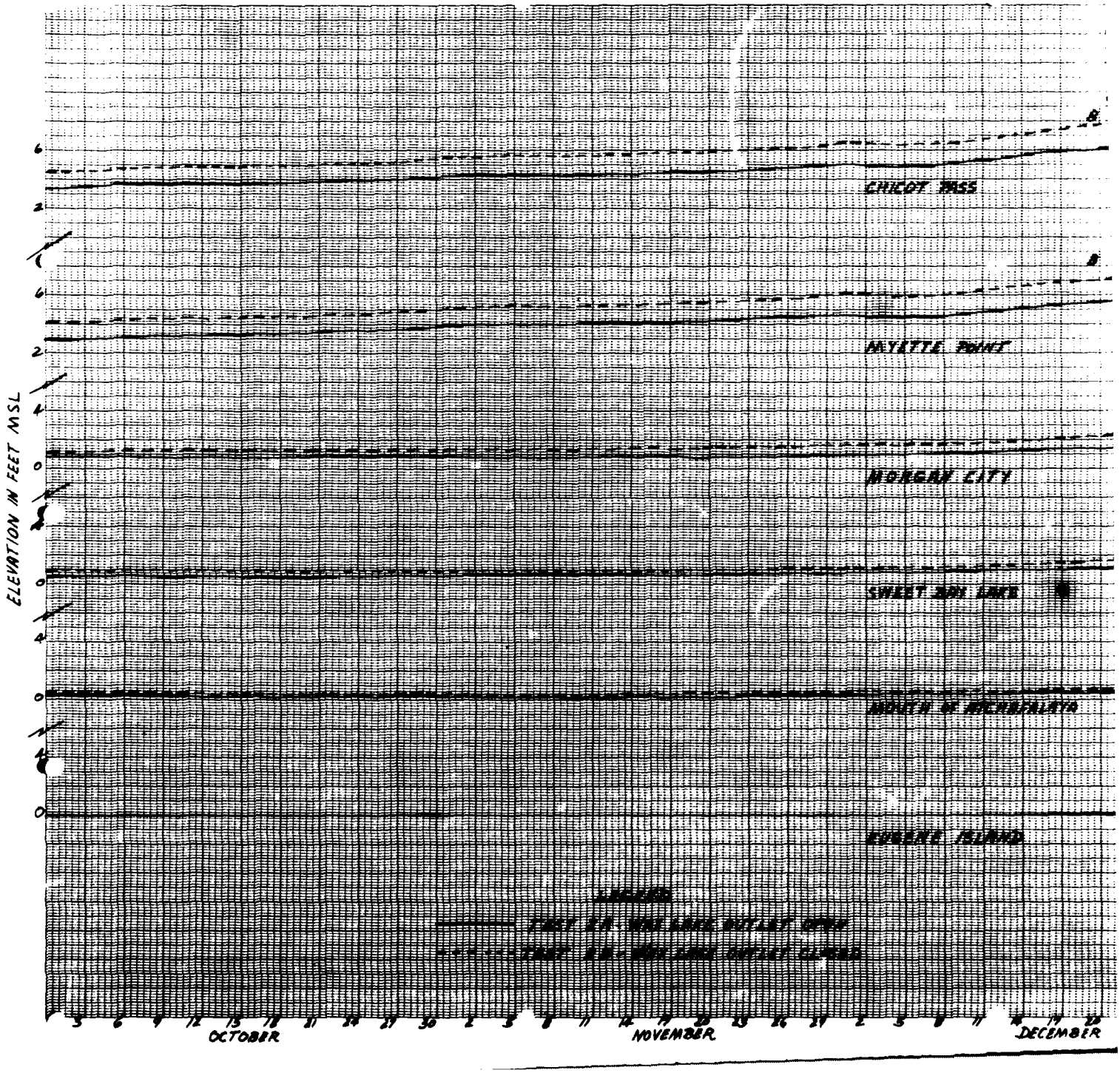

WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO. 9
LAKE CHICOT NO. 15
LEGEND
A - WHEN LAKE OUTLET OPEN
B - WHEN LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A,B
AVERAGE ANNUAL RUNS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
JULY
AUGUST
SEPTEMBER

PLATE 44


ELEVATION IN FEET MSL
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
OCTOBER
NOVEMBER
DECEMBER

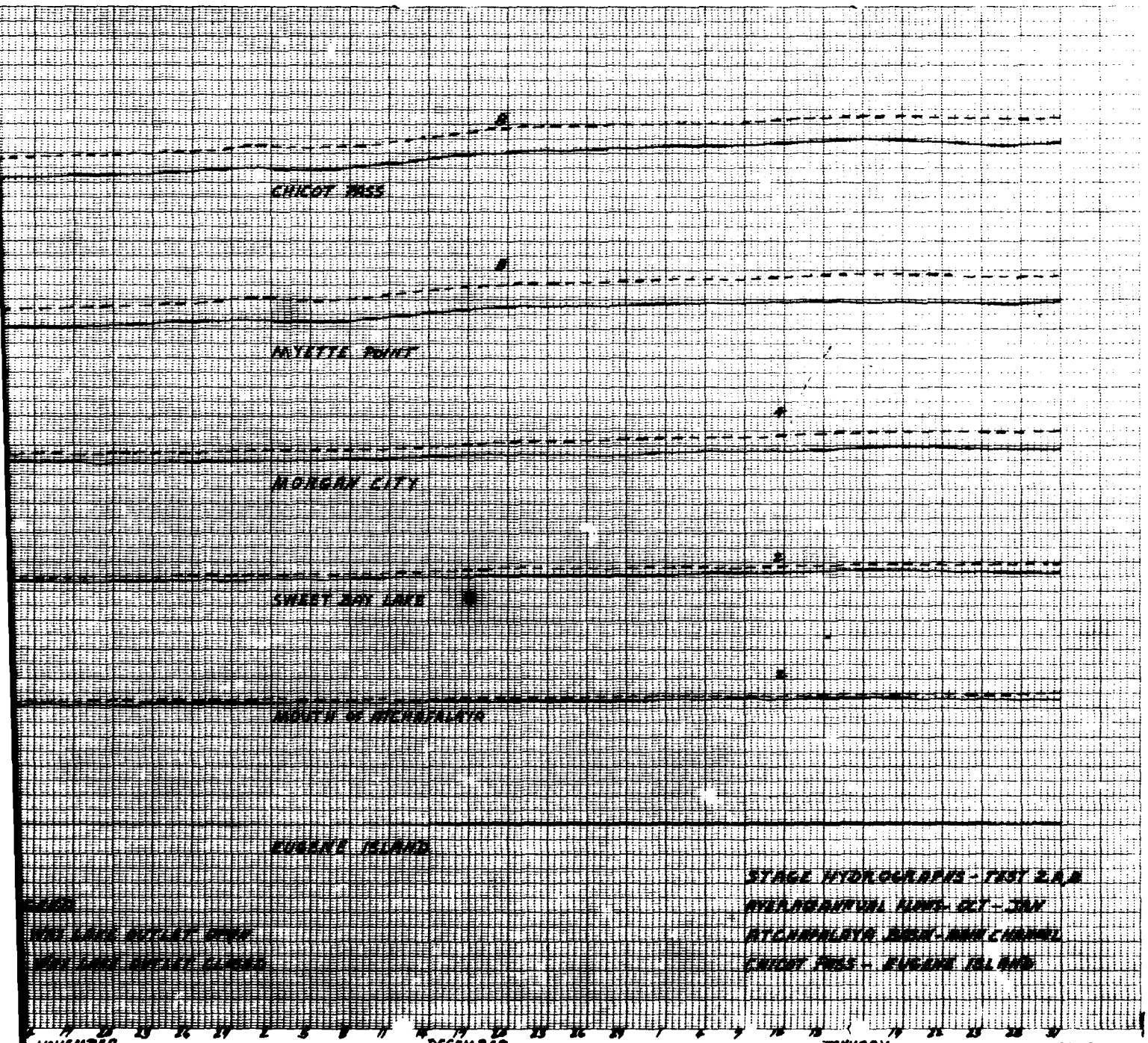
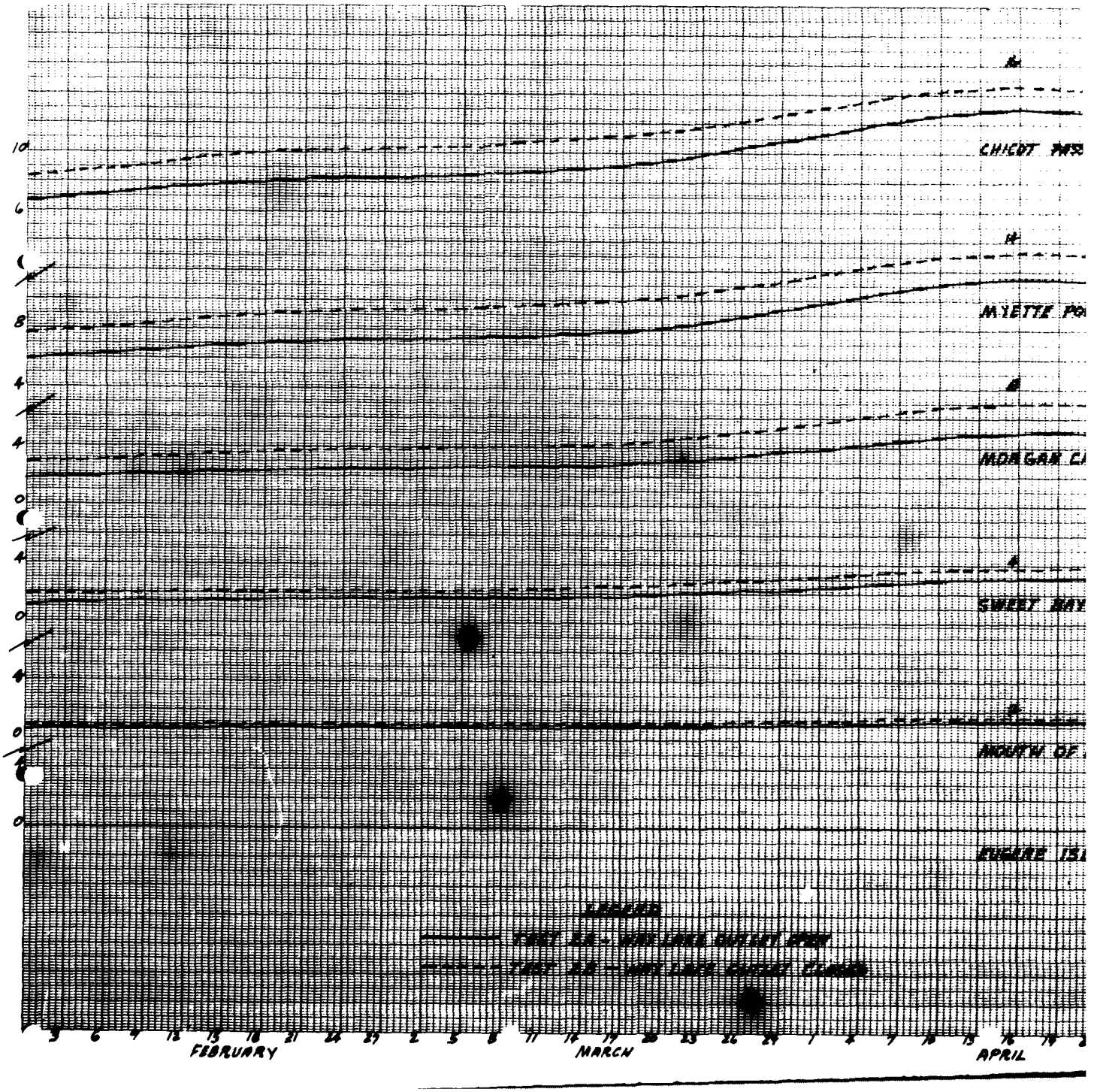

CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BOY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
STAGE HYDROGRAPHS - TEST 2 A, B
HYPOTHETICAL FLOWS - OCT - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
NOVEMBER
DECEMBER
JANUARY

PLATE 45


ELEVATION IN FEET MSL
10
6
8
4
4
0
4
0
4
0
0
CHICOT PASS
MYETTE PO
MORGAN C
SWEET BAY
MOUTH OF
EUGENE IS
LEGEND
FEBRUARY
MARCH
APRIL

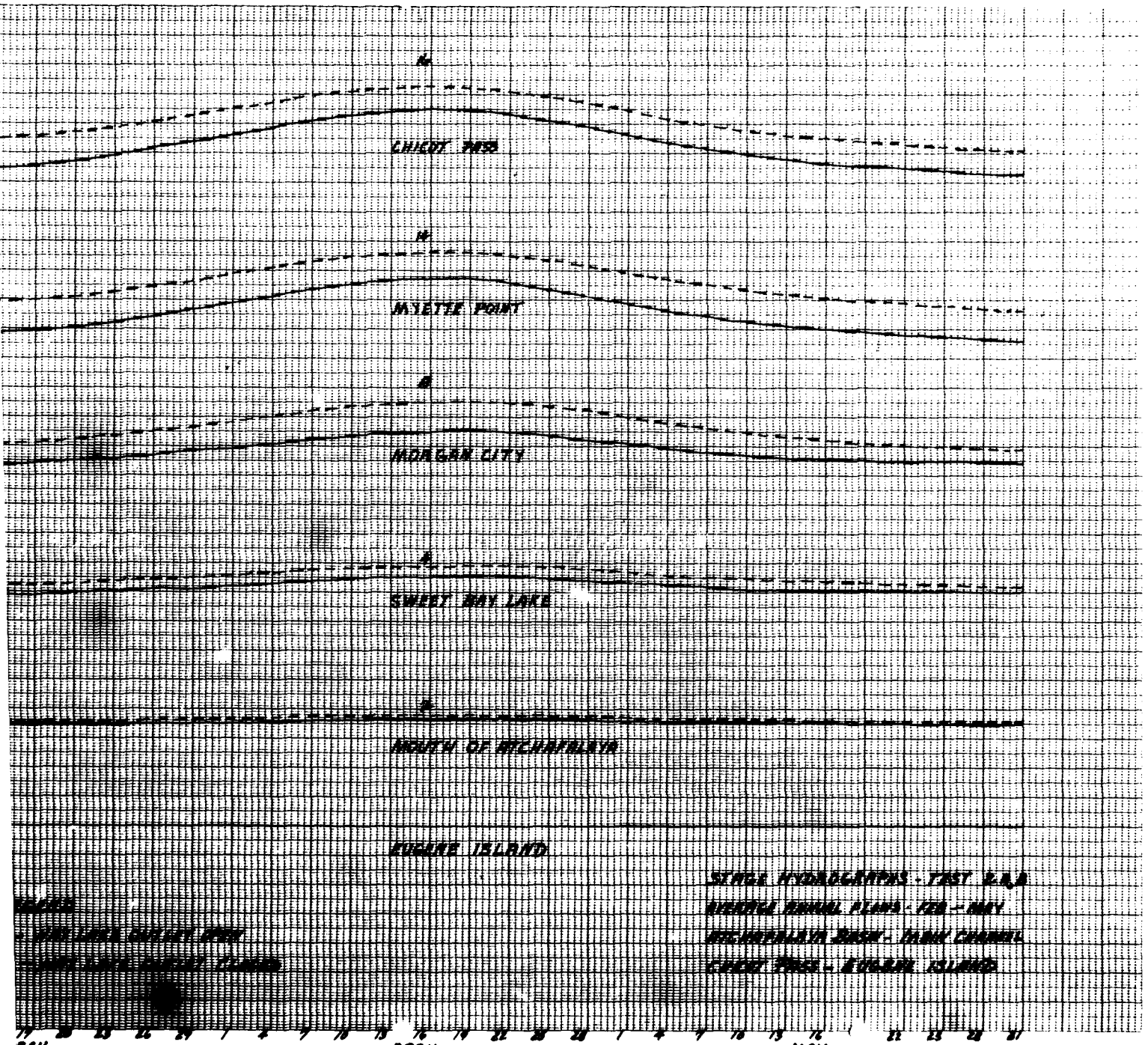
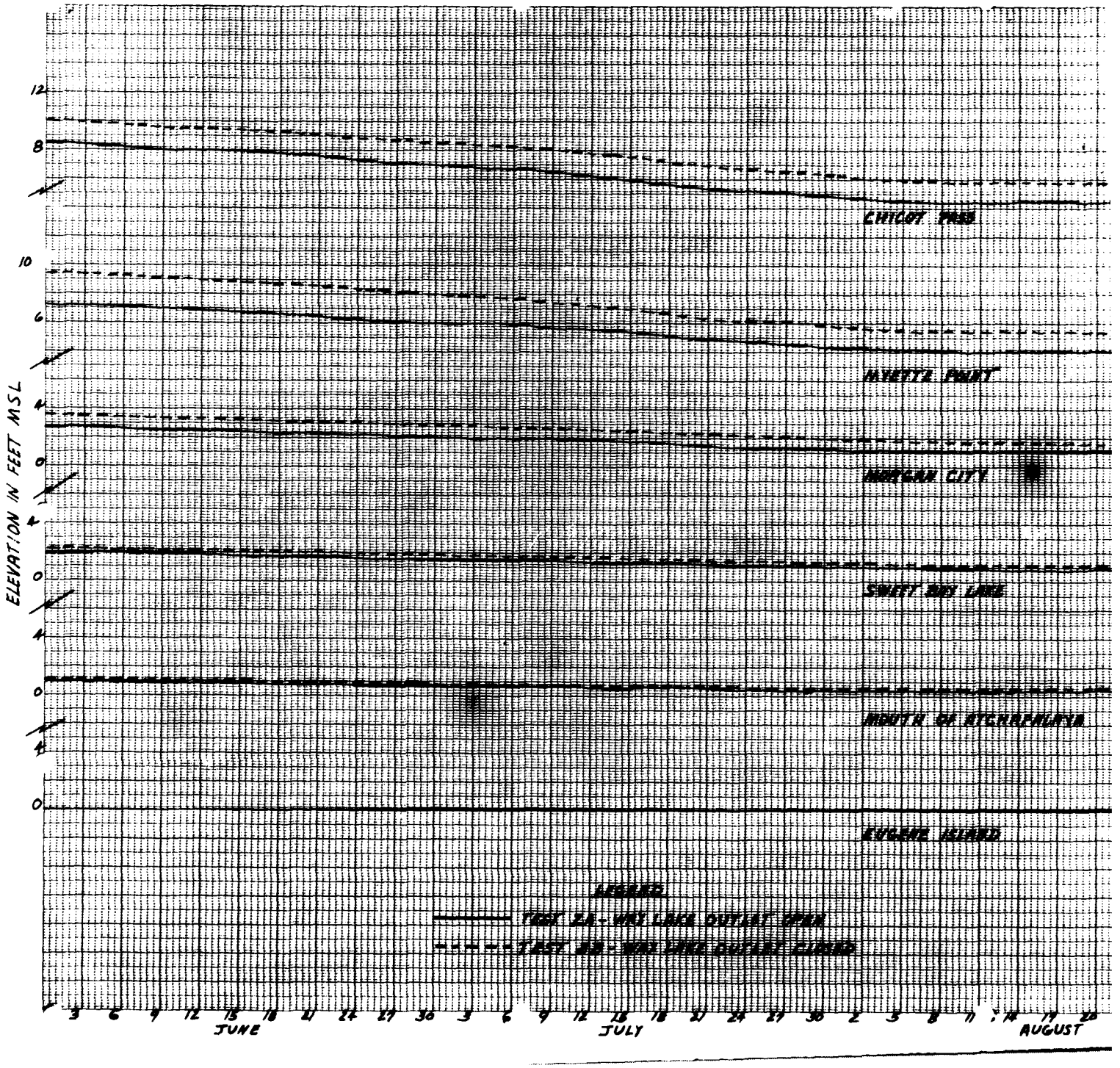

CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
SINGLE HYDROGRAPHS - FAST R.R.A
AVERAGE ANNUAL FLOODS - FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
MARCH
APRIL
MAY

PLATE 46


ELEVATION IN FEET MSL
12
8
10
6
4
0
4
0
4
0
4
0
CHICOT PARK
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TIDE ZA - WAX LAKE OUTLET OPEN
TIDE ZB - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST

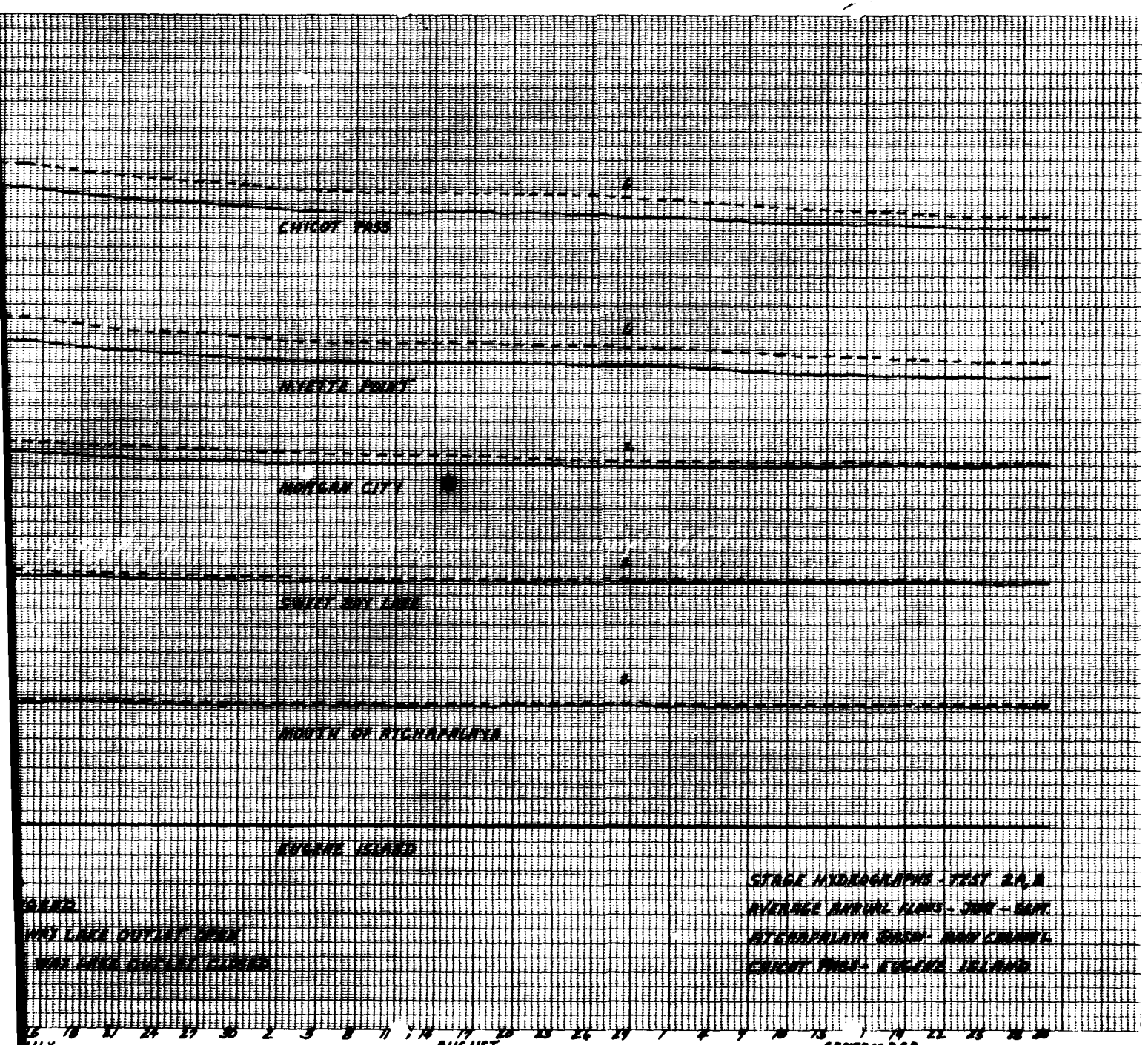
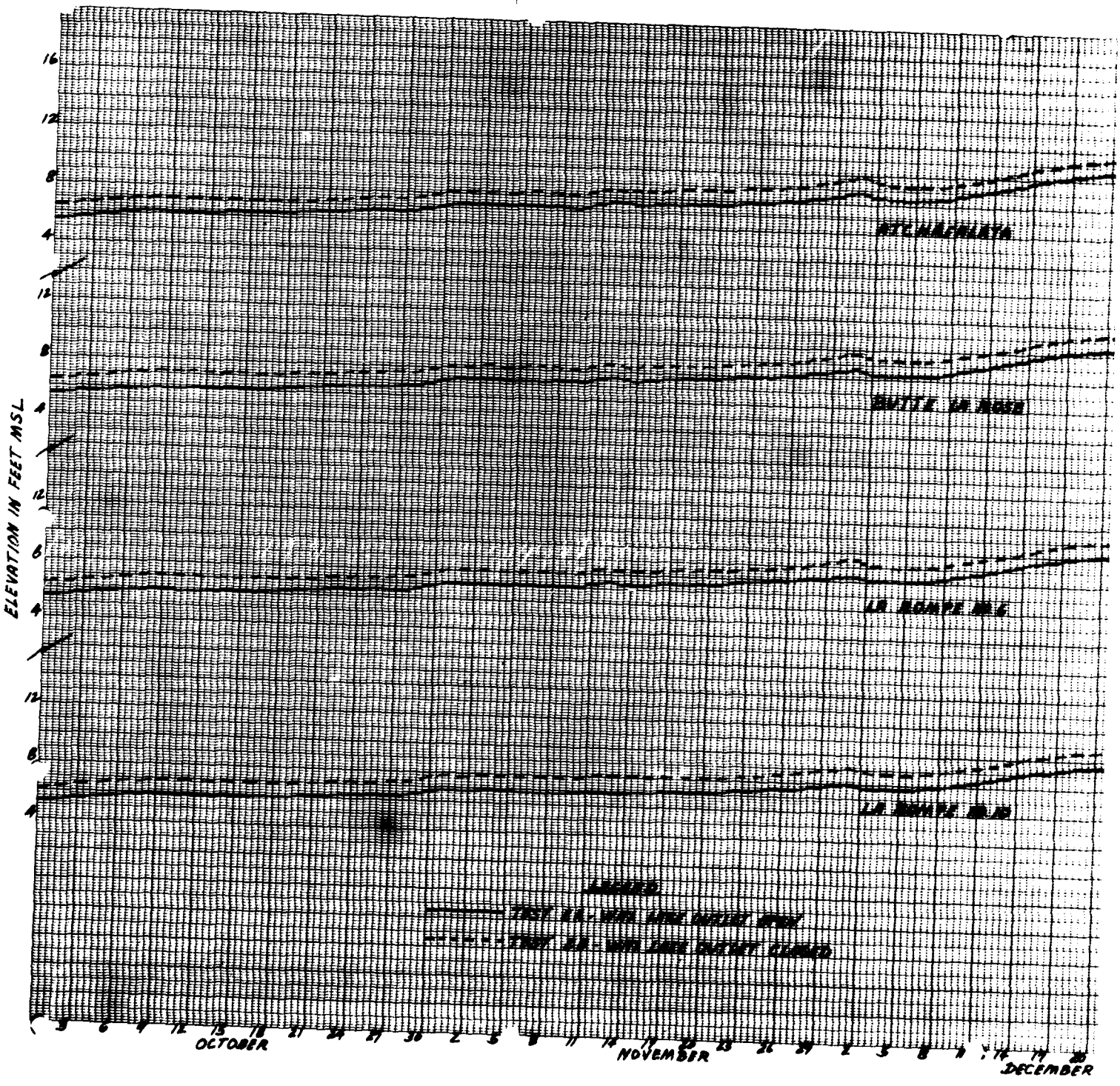

CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
STAGE HYDROGRAPHS - TEST 2A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
HAVE LOCK OUTLET OPEN
HAVE LOCK OUTLET CLOSED
16 18 20 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 47


ELEVATION IN FEET MSL
16
12
8
4
12
8
4
12
8
4
12
8
4
MICHIGAMEA
BUTTE LA ROSE
LA RONDE NO. 6
LA RONDE NO. 10
LEGEND
TEST 6A - WITH LAKE OUTLET OPEN
TEST 6A - WITH LAKE OUTLET CLOSED
5
6
9
12
15
18
21
24
27
30
2
5
8
11
14
17
20
23
26
29
2
5
8
11
14
17
20
OCTOBER
NOVEMBER
DECEMBER

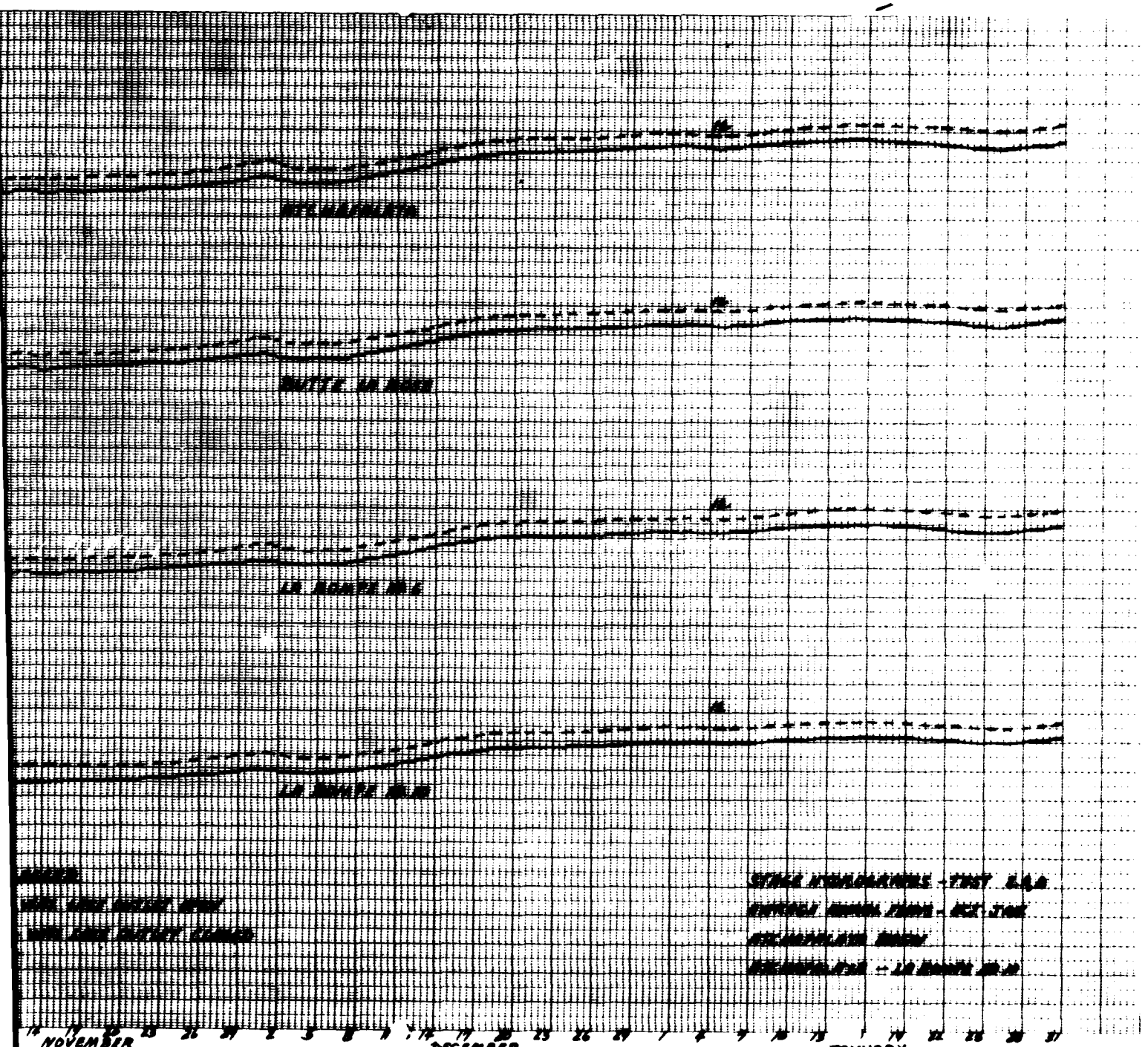
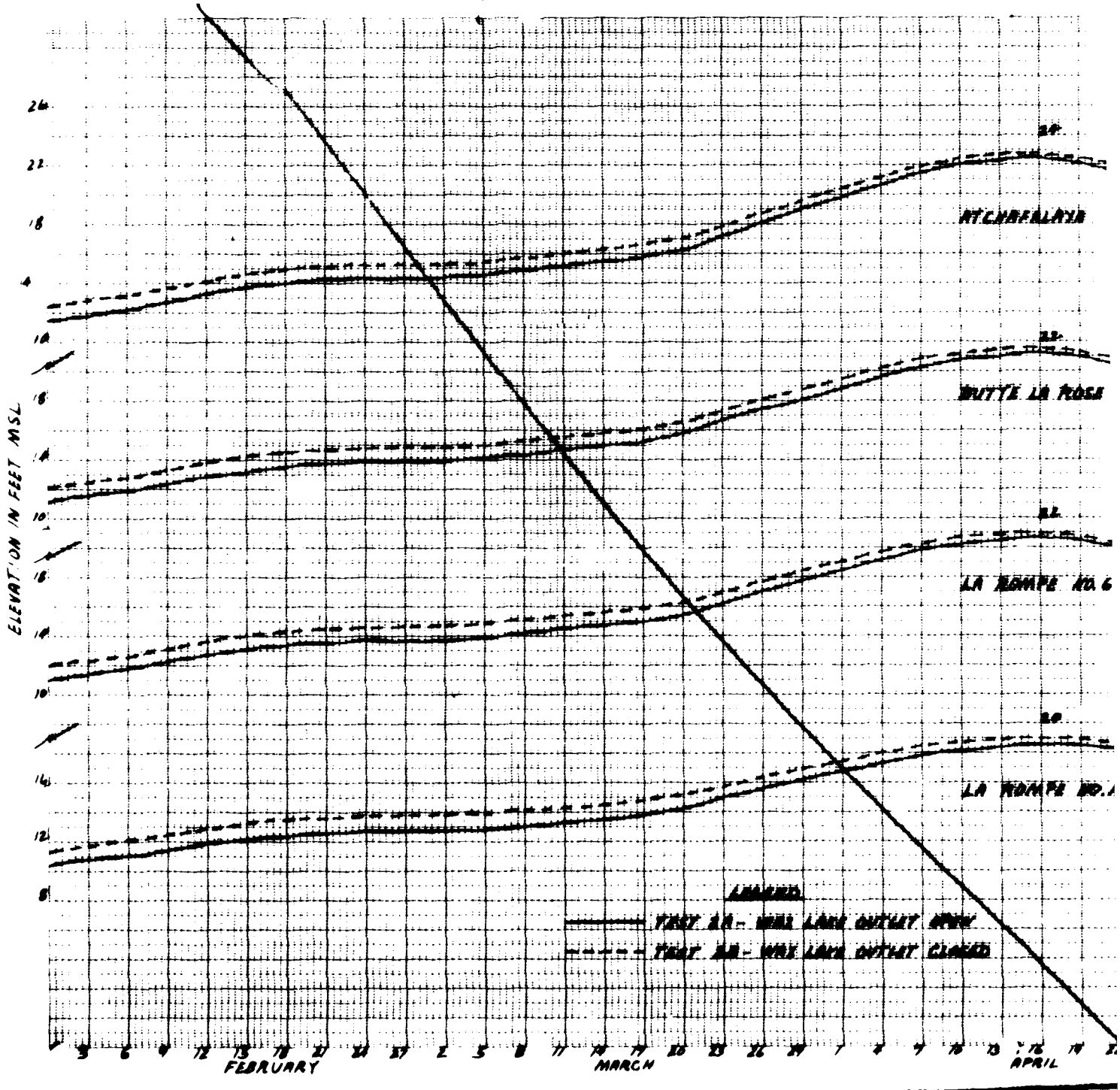


PLATE 48


ELEVATION IN FEET MSL
24
22
18
4
16
14
12
8
AT CHAFFALAYA
BUTTE LA ROSE
LA RAMPE NO. 6
LA RAMPE NO. 4
LEGEND
FEET MSL - WHEN LAKE OUTLET OPEN
FEET MSL - WHEN LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

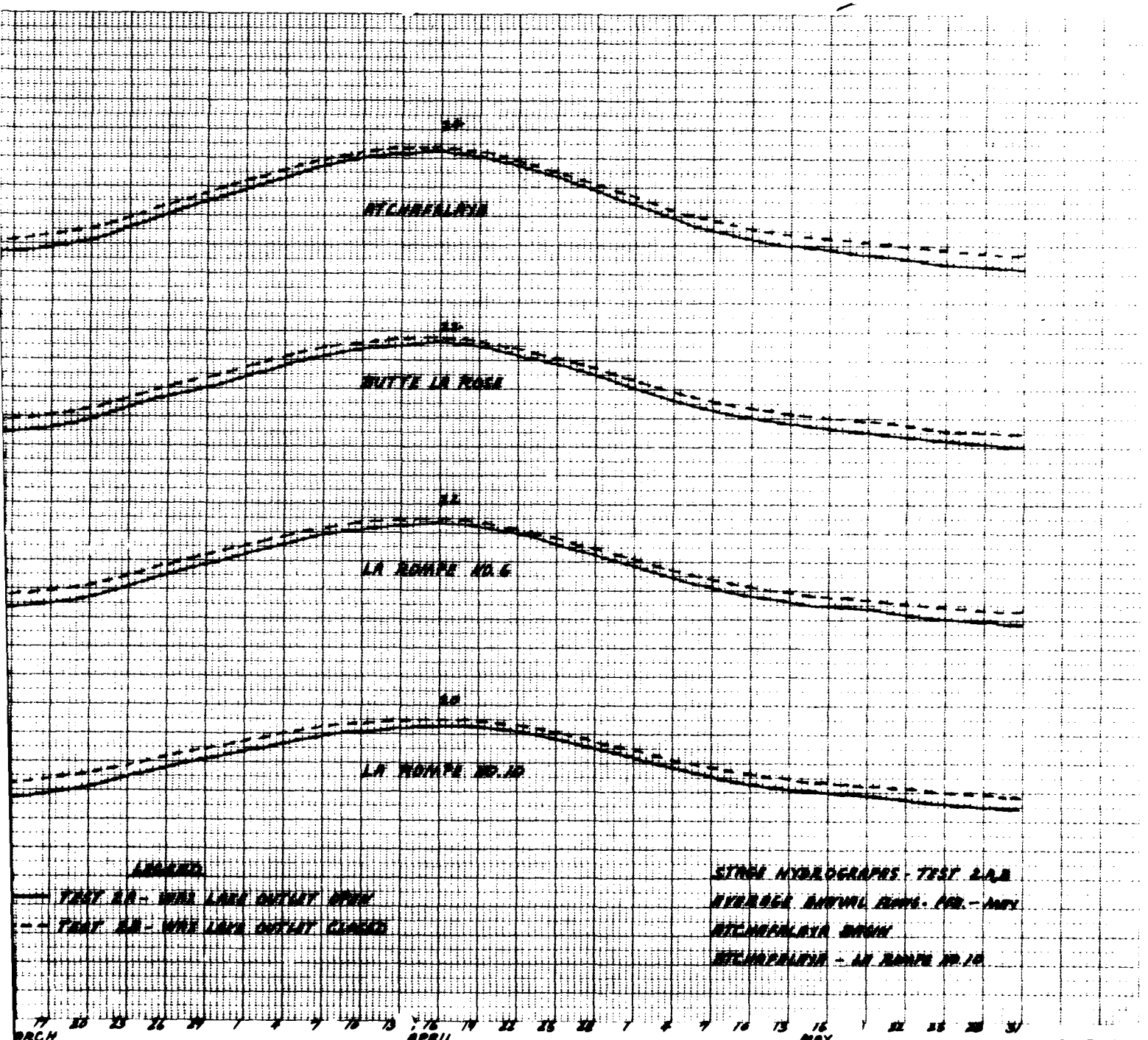
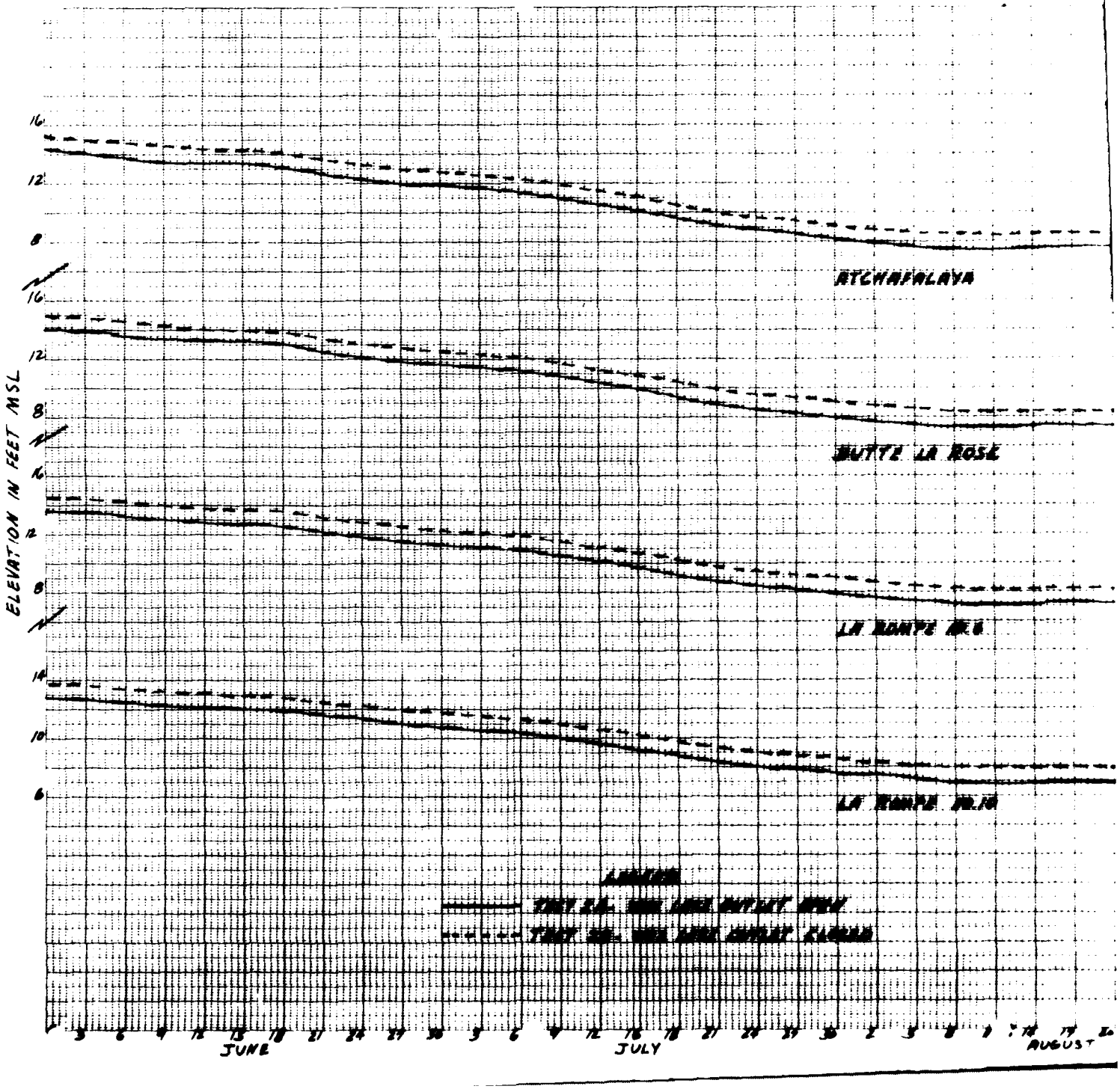

ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE KM. 6
LA ROMPE KM. 10
LEGEND
TEST 2A - WEIR LAKE OUTLET OPEN
TEST 2B - WEIR LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE DAILY GAGE HGTS. FOR - MAY
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE KM. 10
MARCH
APRIL
MAY

PLATE 49


ELEVATION IN FEET MSL
ATCHAFALAYA
BUTTE LA ROSE
LA RONDE NO. 6
LA RONDE NO. 10
JUNE
JULY
AUGUST

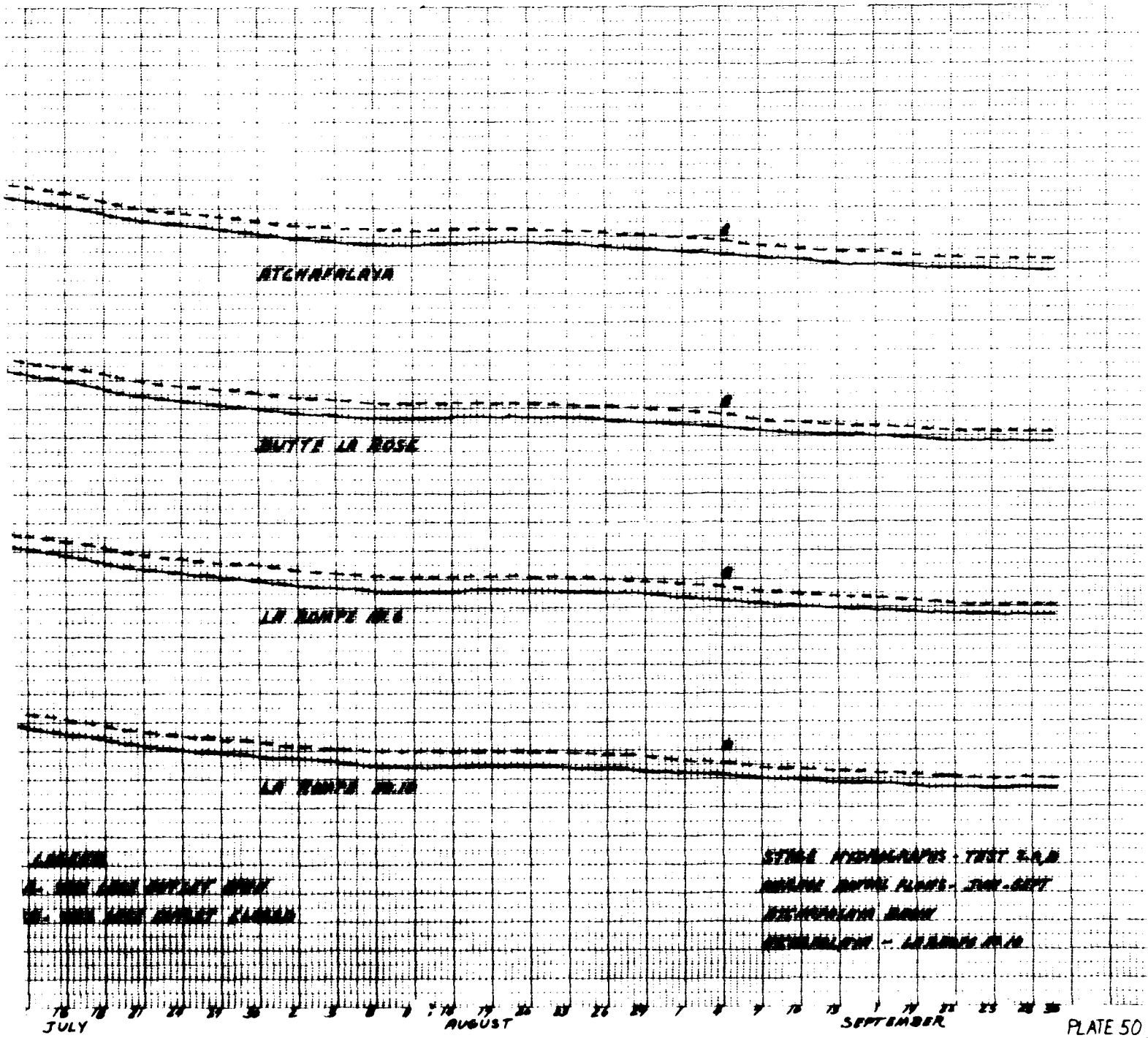
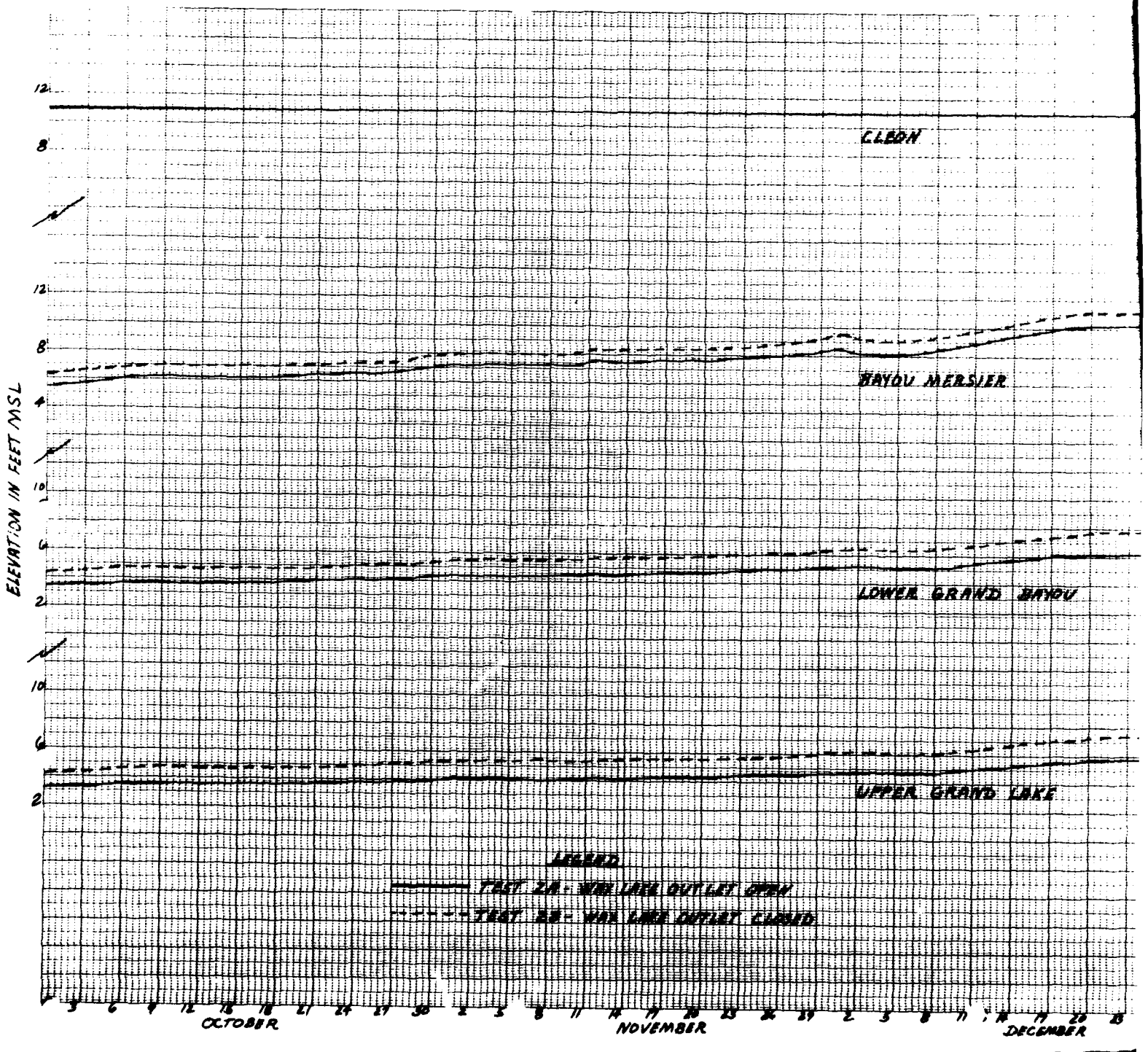


PLATE 50


ELEVATION IN FEET MSL
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 2A - WAR LAKE OUTLET OPEN
TEST 2B - WAR LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

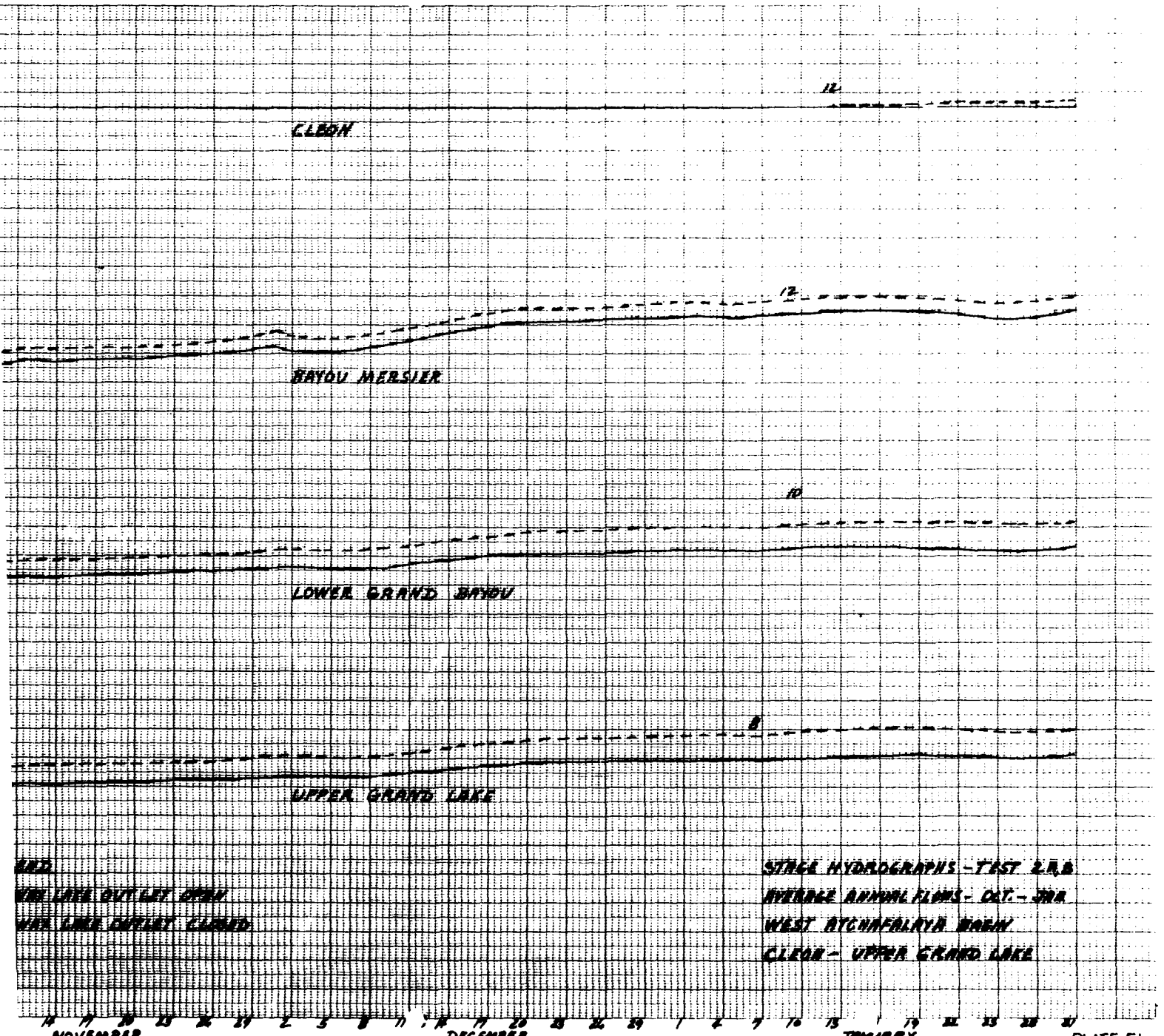
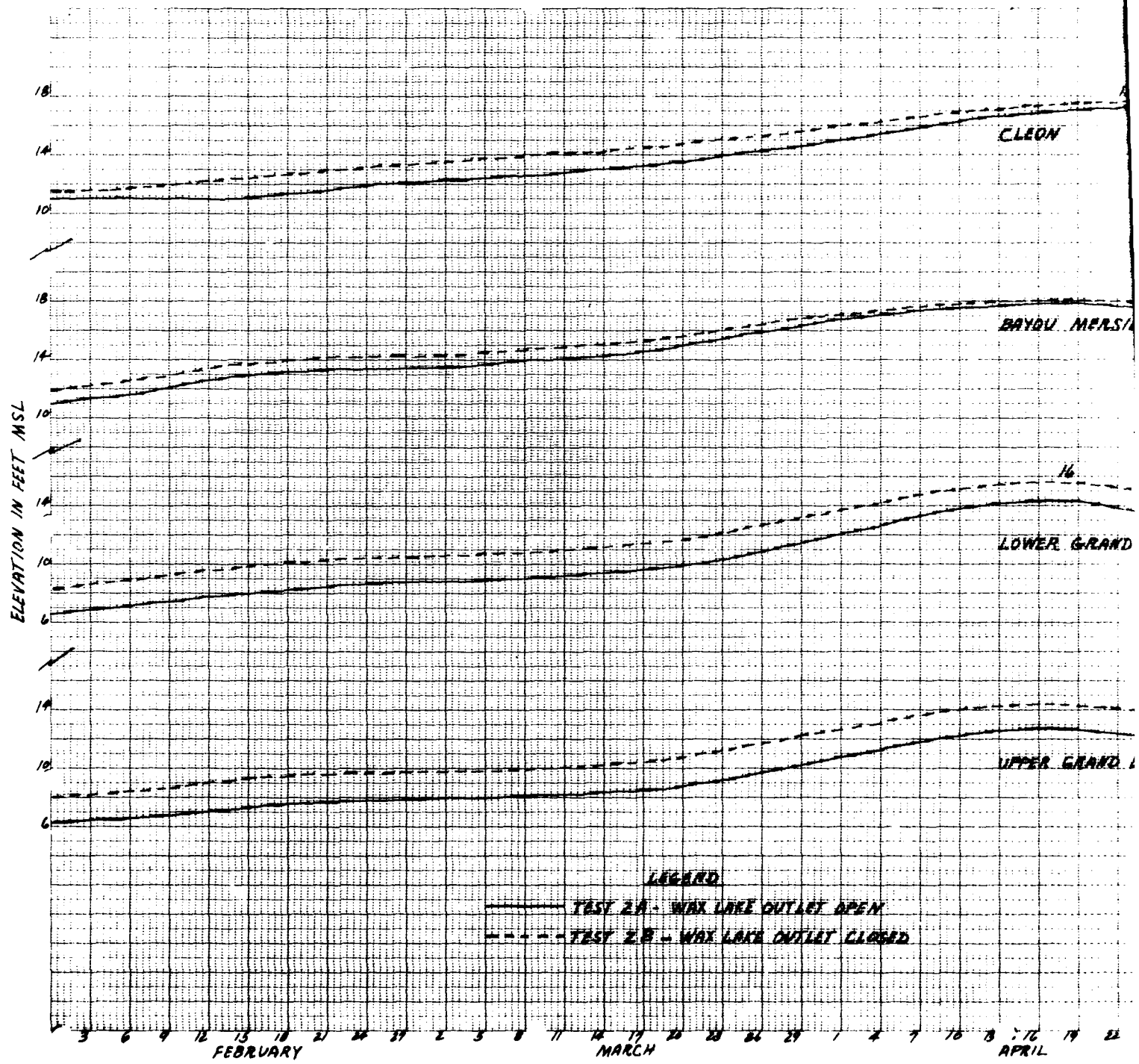

12
CLEON
12
BAYOU MERSIER
10
LOWER GRAND BAYOU
8
UPPER GRAND LAKE
RED
VAN LAKE OUTLET OPEN
VAN LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 R & B
AVERAGE ANNUAL FLOWS - OCT. - JAN
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
NOVEMBER
DECEMBER
JANUARY

PLATE 51


ELEVATION IN FEET MSL
CLEON
BAYOU MERS
LOWER GRAND
UPPER GRAND
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

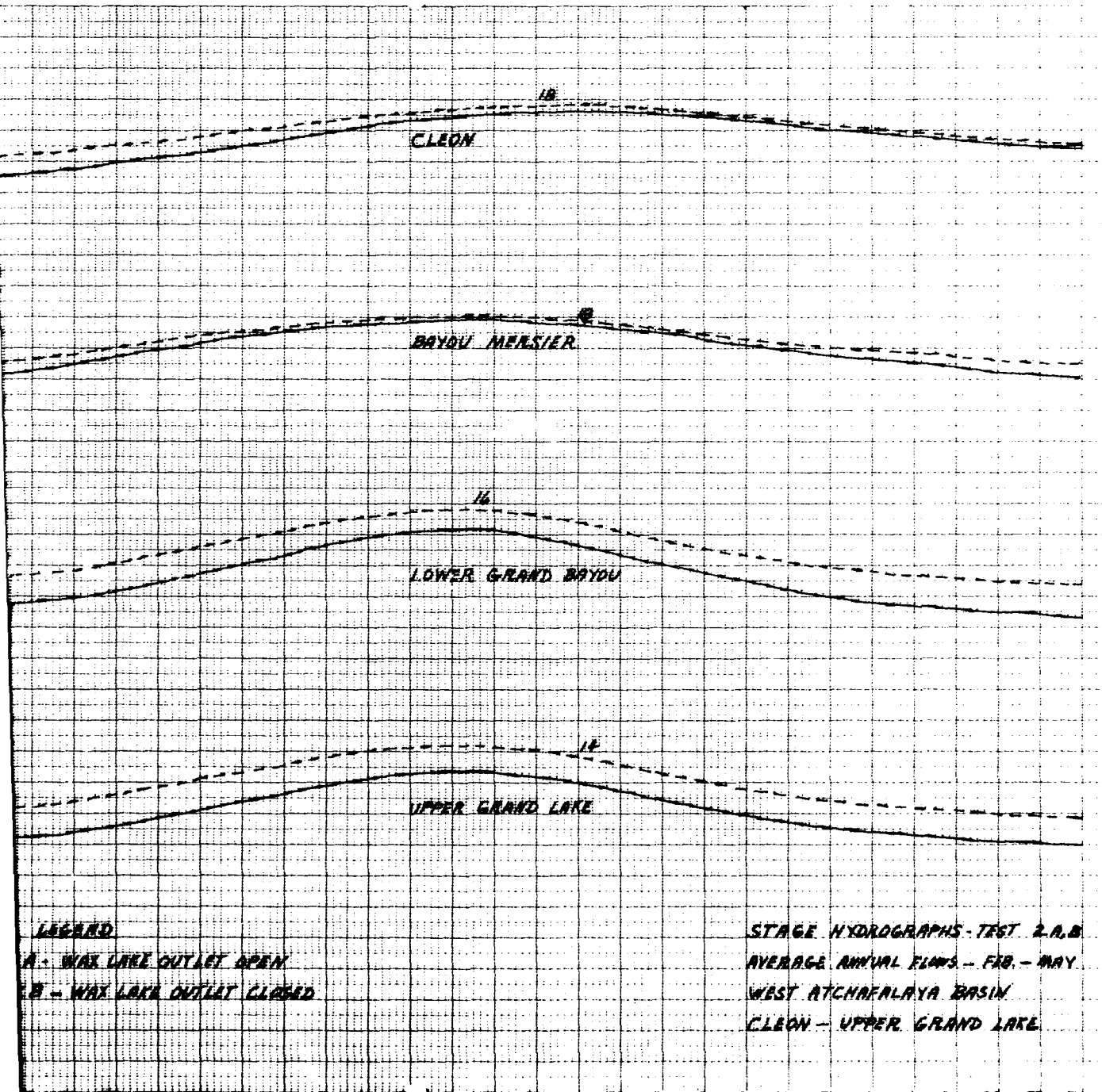
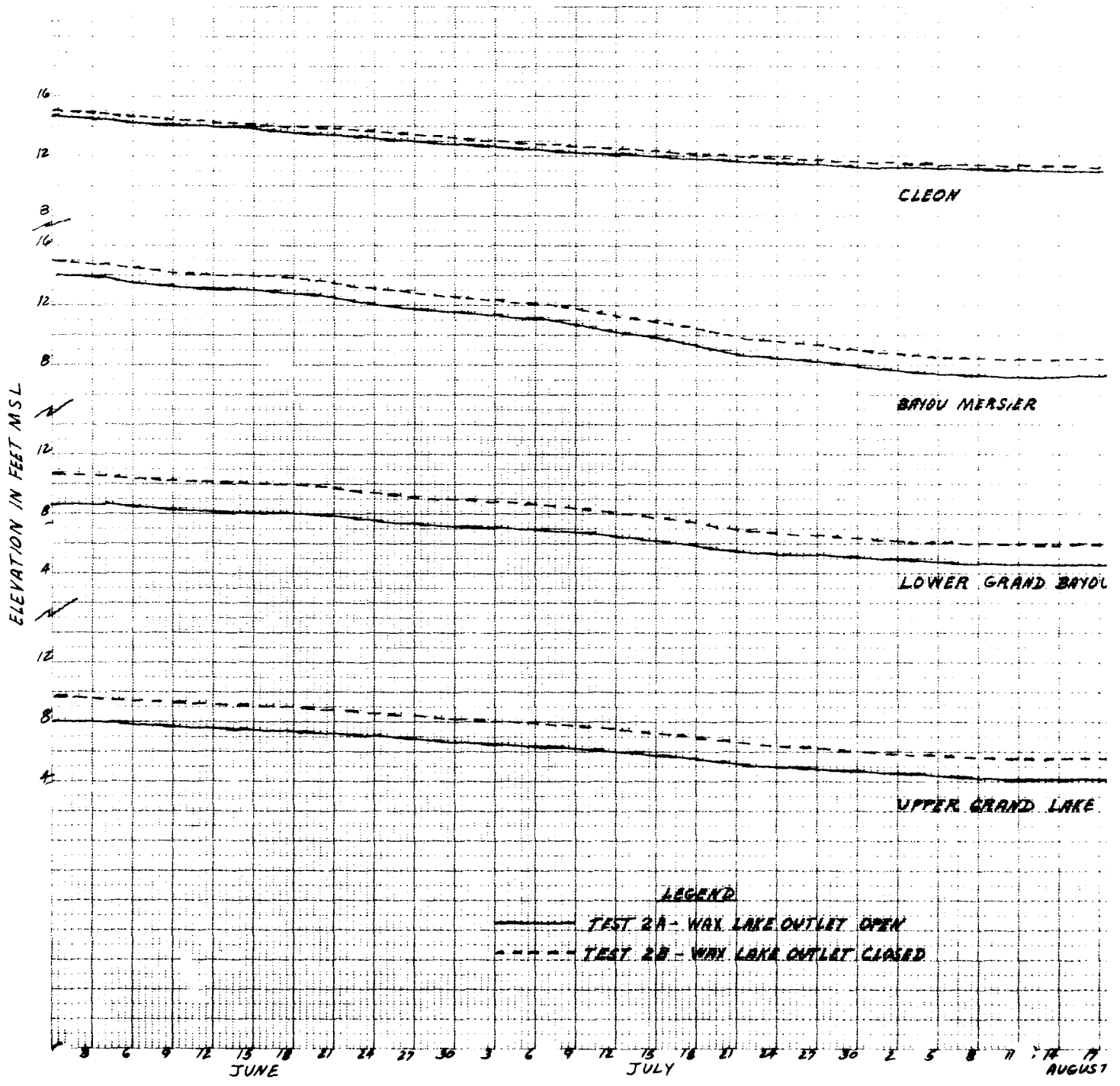

1B
CLEON
2
BAYOU MERSIER
1A
LOWER GRAND BAYOU
1
UPPER GRAND LAKE
LEGEND
A - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
APRIL
MAY

PLATE 52


ELEVATION IN FEET MSL
16
12
8
16
12
8
12
8
4
12
8
4
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

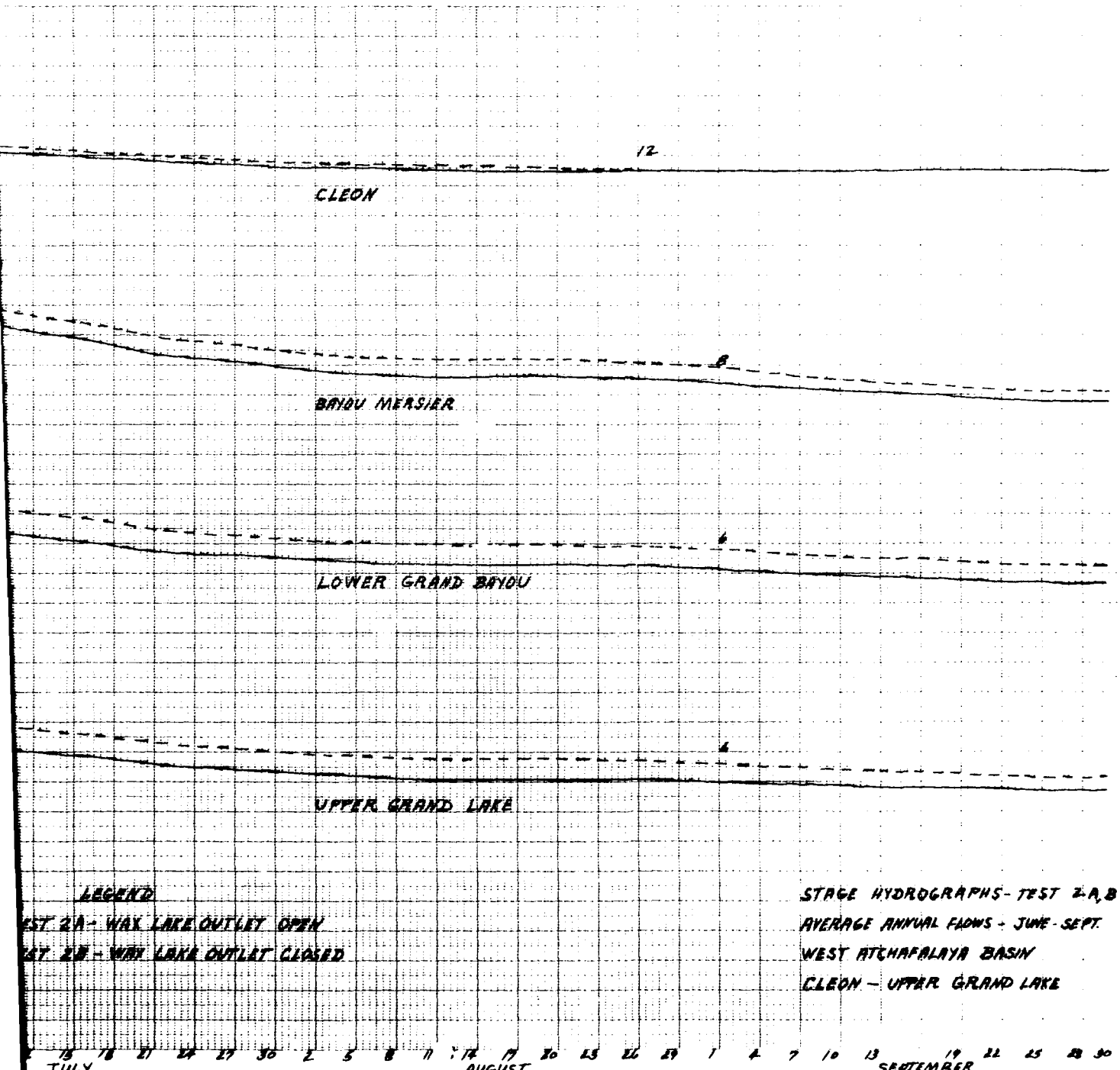
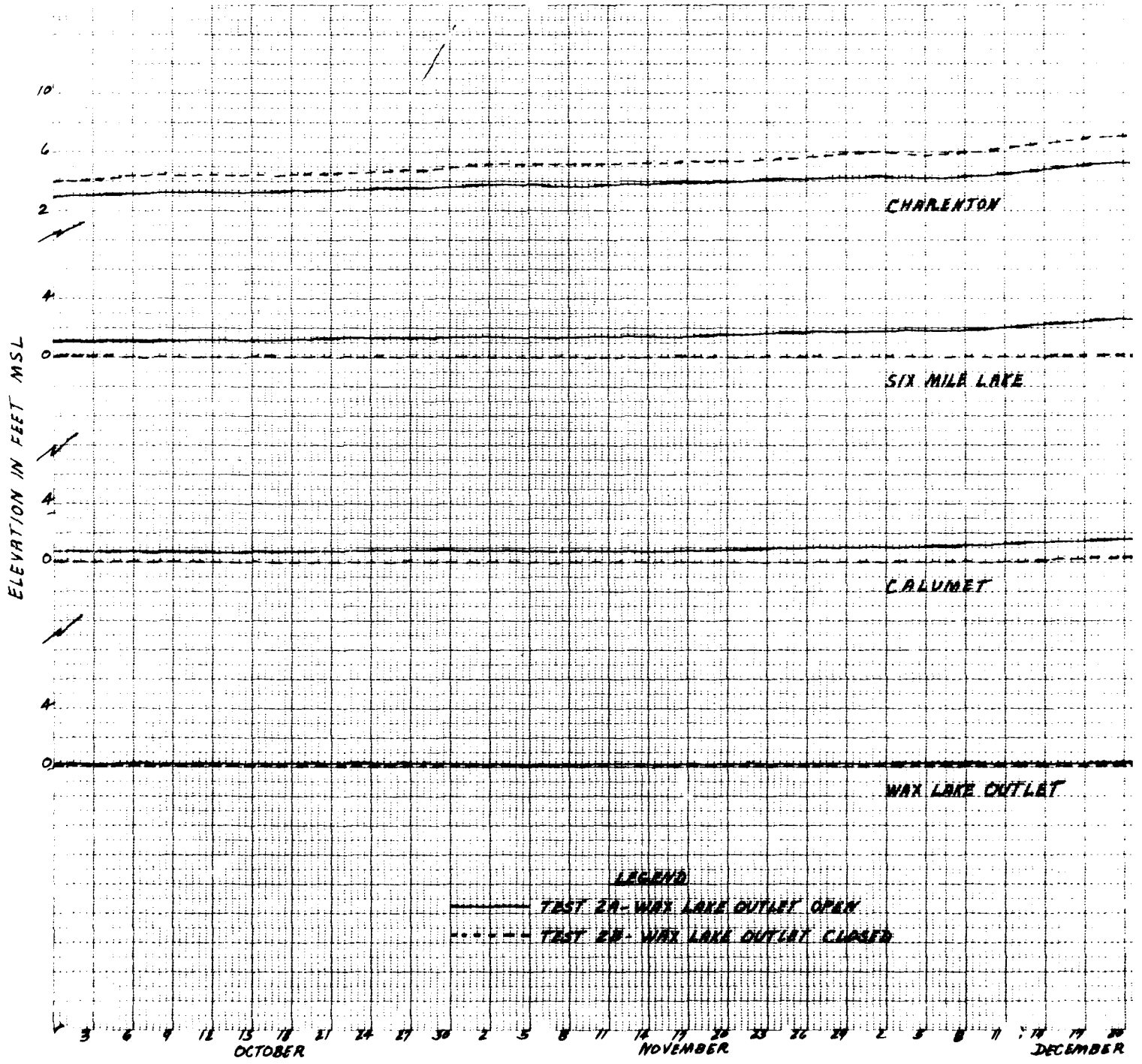

12
CLEON
8
BAYOU MEASIER
6
LOWER GRAND BAYOU
4
UPPER GRAND LAKE
LEGEND
EST 2A - WAX LAKE OUTLET OPEN
ST 2B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
JULY
AUGUST
SEPTEMBER

PLATE 53


ELEVATION IN FEET MSL
10'
6
2
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

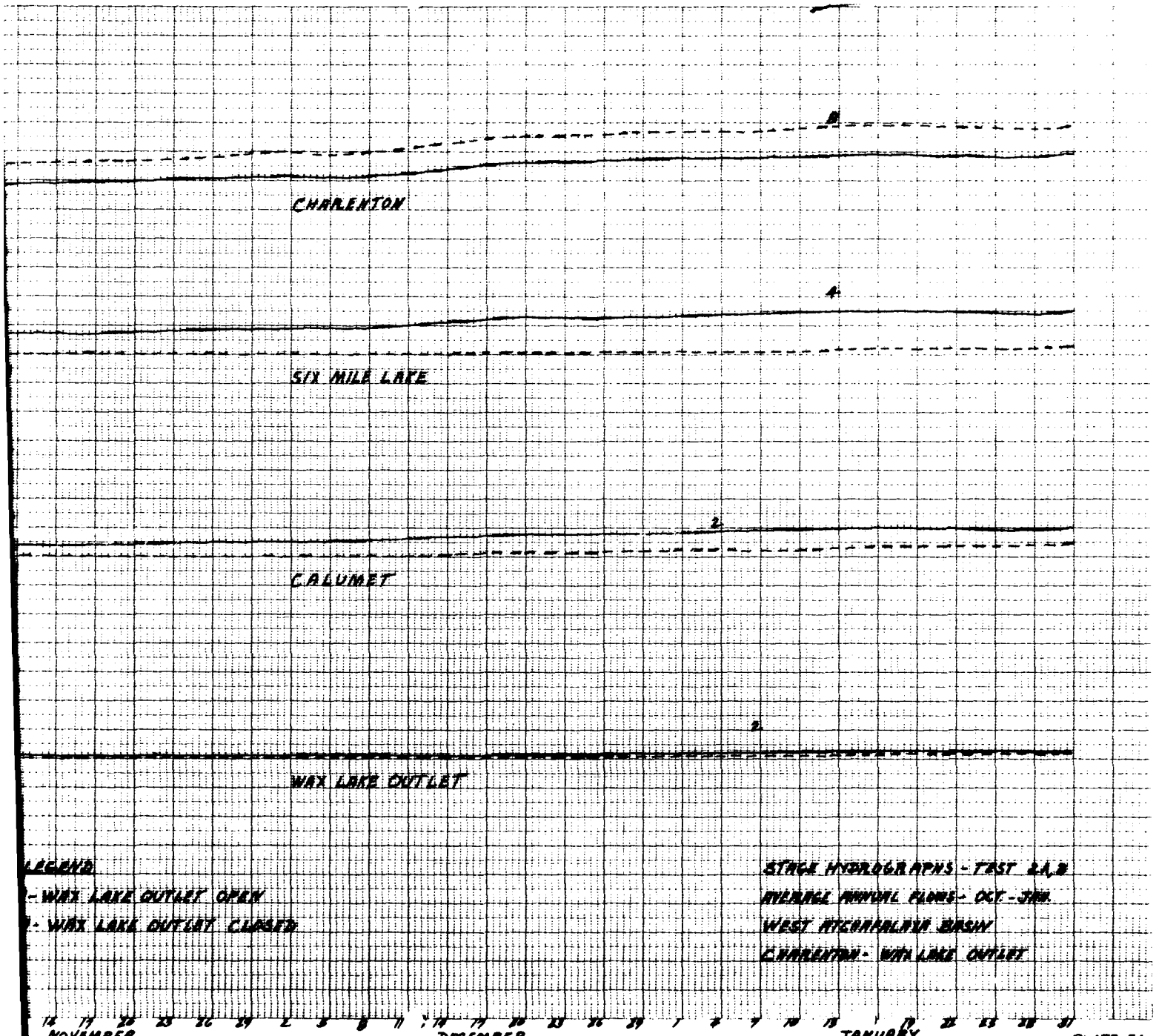
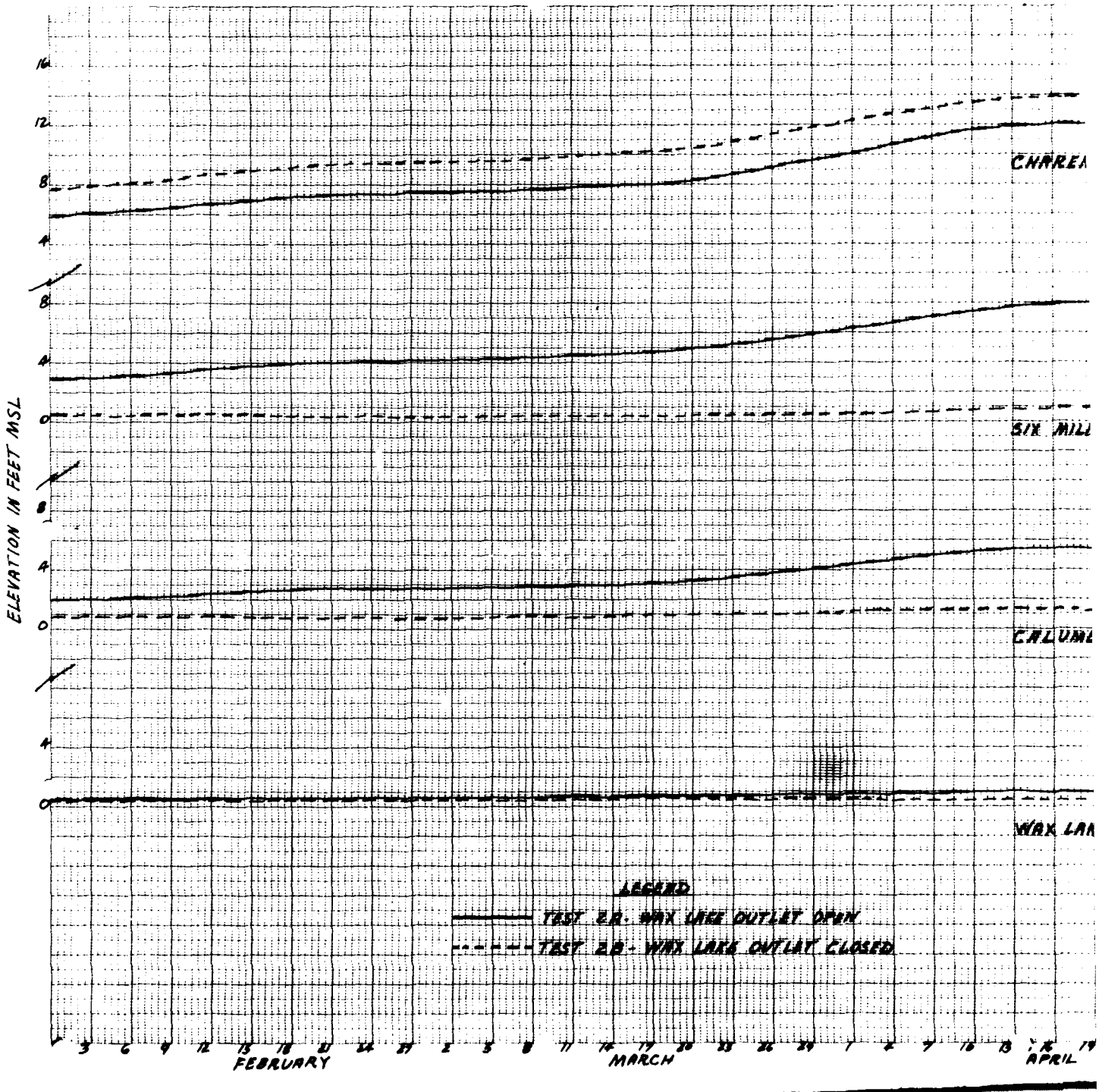

CHARLESTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - FAST 2A,B
AVERAGE ANNUAL FLOWS - OCT - JAN.
WEST ATCHAFALAYA BASIN
CHARLESTON - WAX LAKE OUTLET
NOVEMBER
DECEMBER
JANUARY

PLATE 54


ELEVATION IN FEET MSL
16
12
8
4
8
4
0
8
4
0
4
0
CHANNEL
SIX MILE
CALUMET
WAX LAKE
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16
APRIL

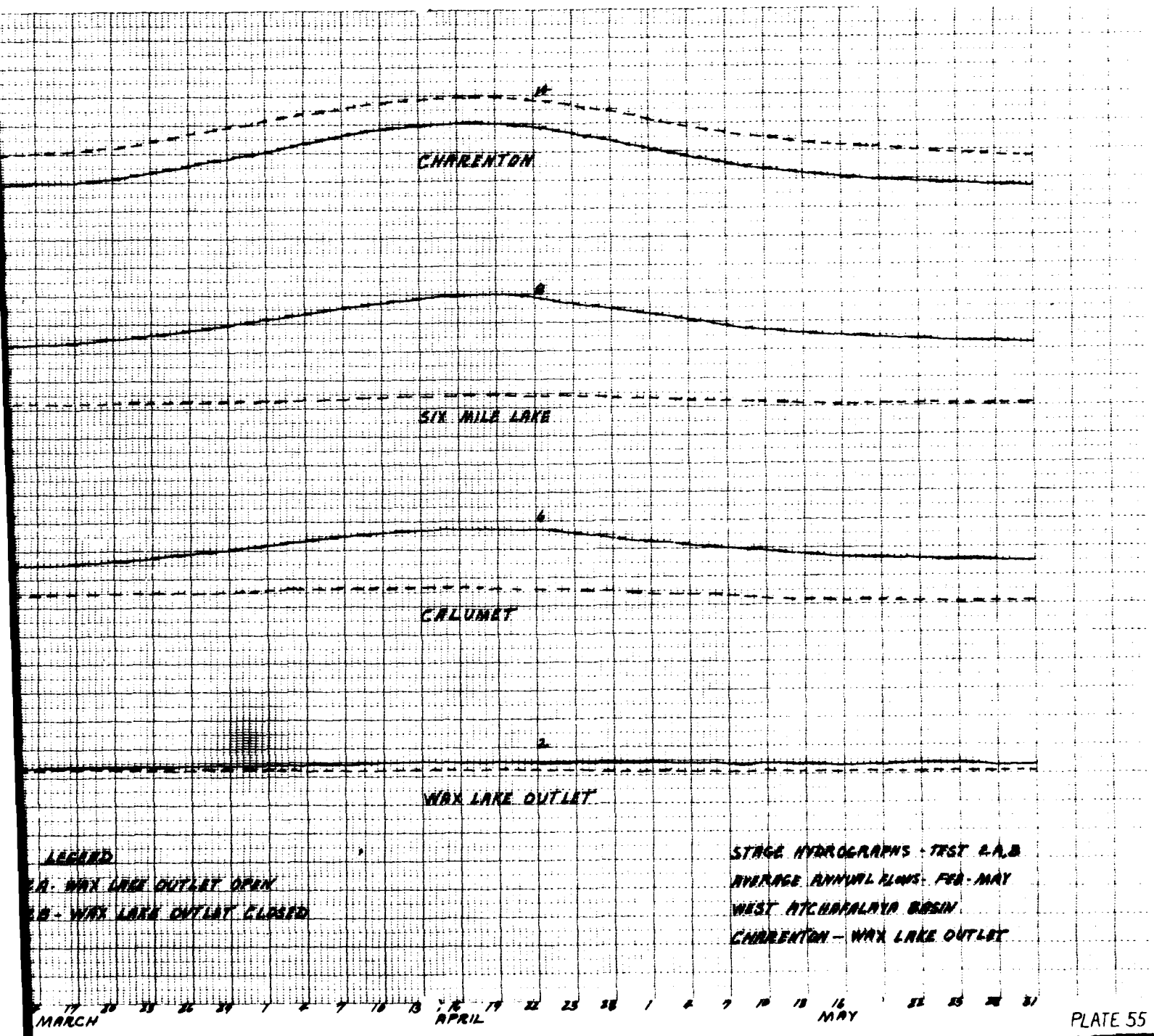
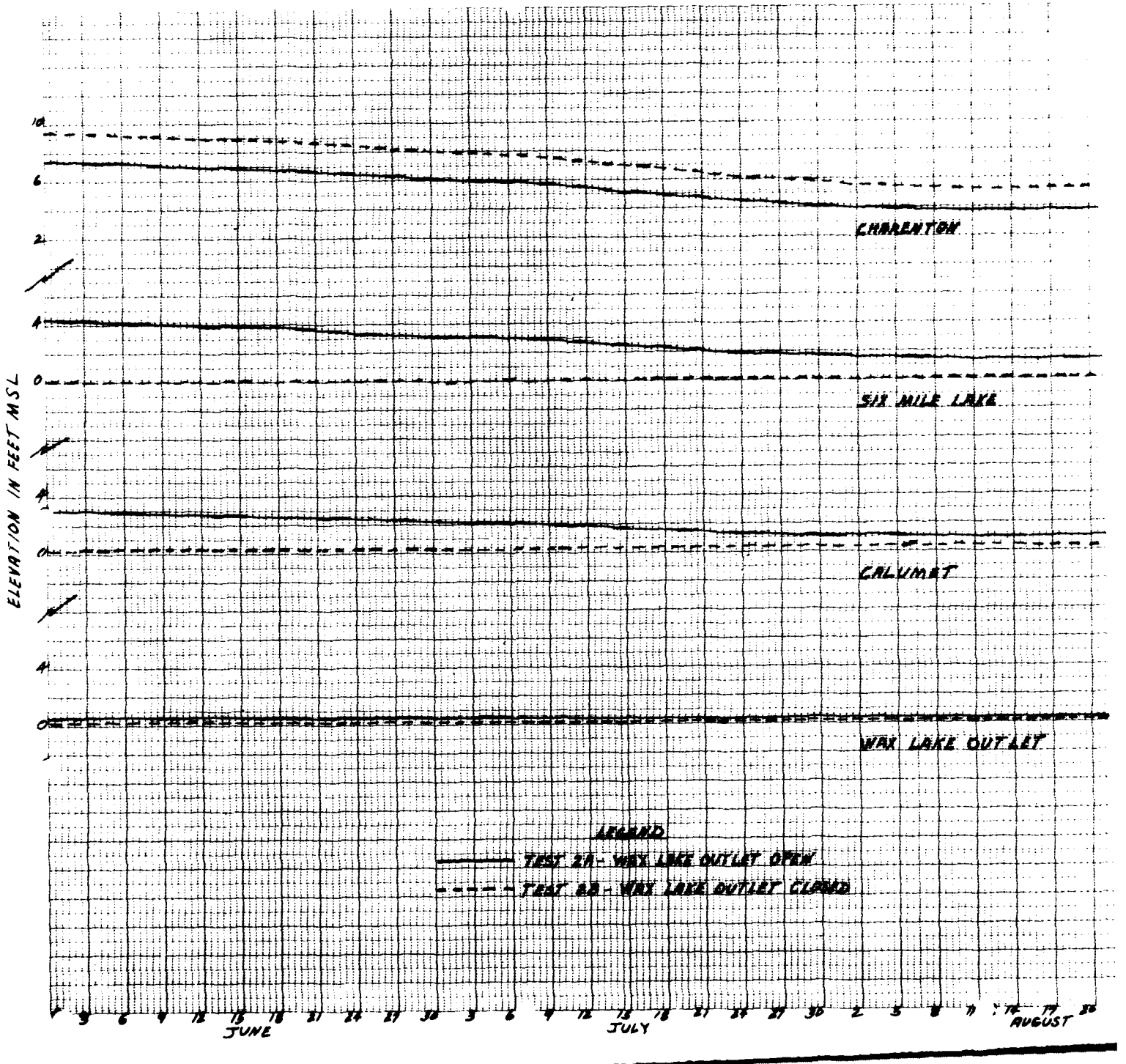

CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
A - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST A & B
AVERAGE ANNUAL FLOWS - FEB - MAY
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
MARCH
APRIL
MAY

PLATE 55


ELEVATION IN FEET MSL
10
6
2
4
0
4
0
4
0
CHABANTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

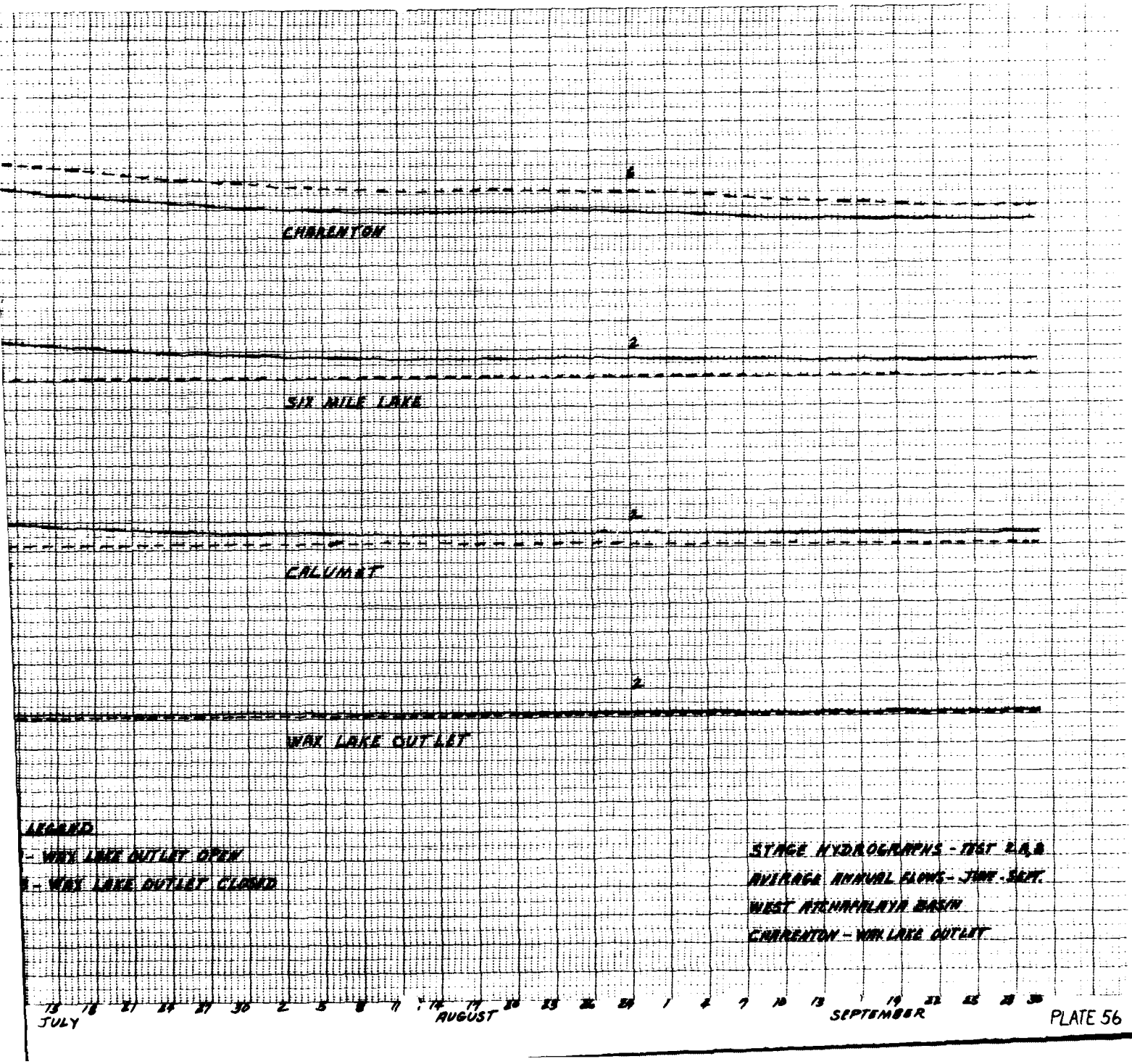
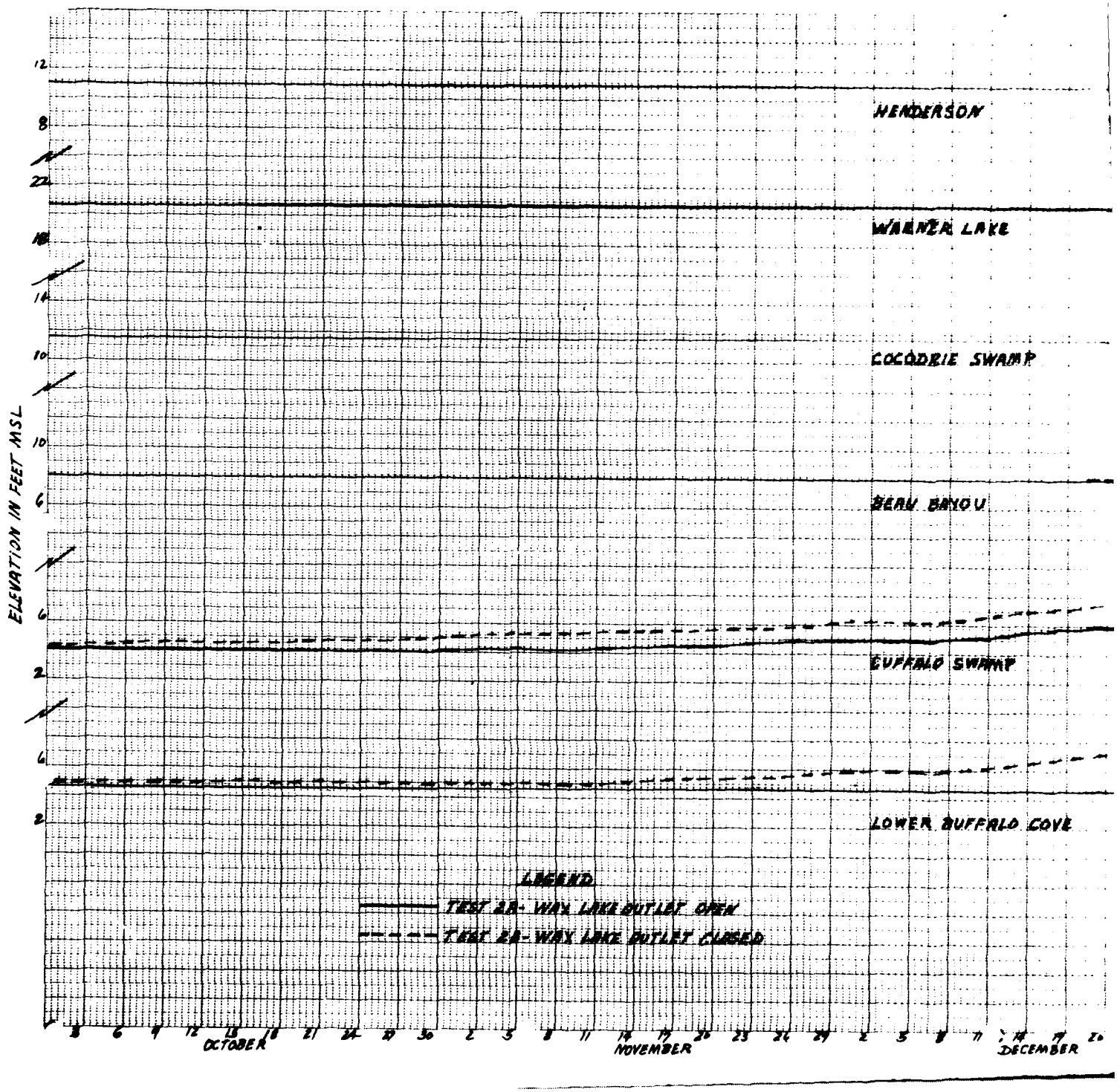
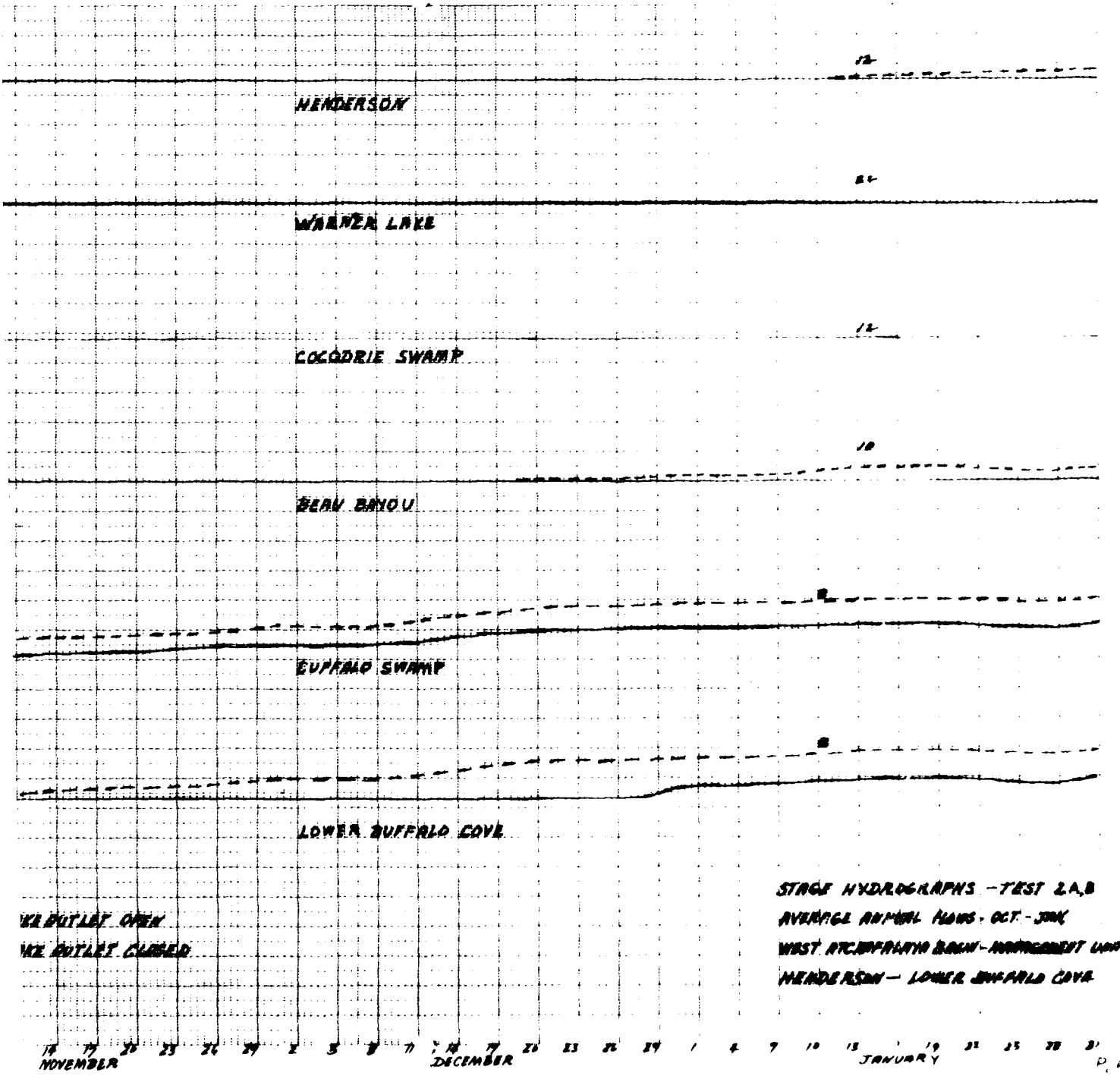
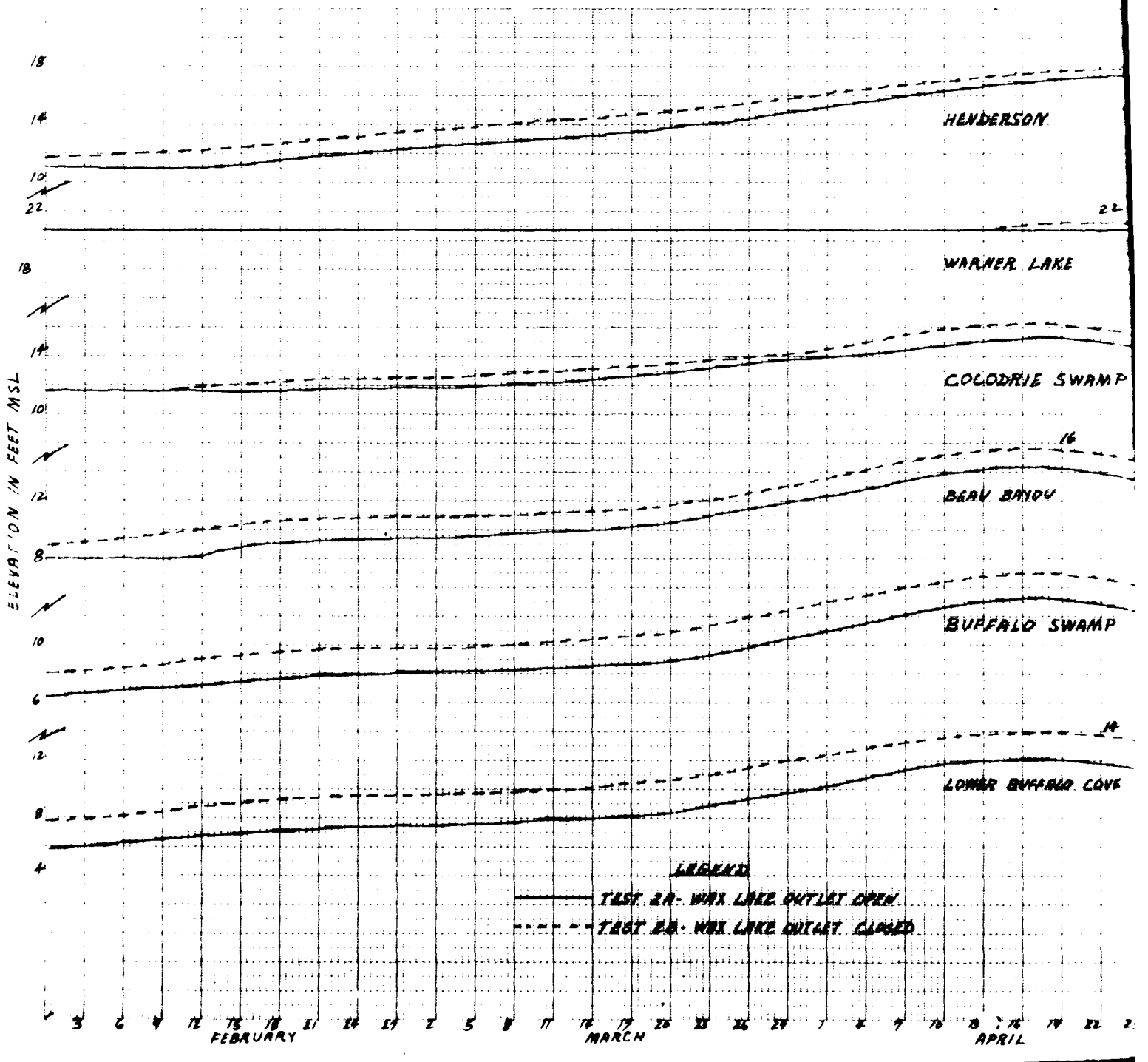

CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
AGGRED
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 & 3
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
JULY
AUGUST
SEPTEMBER

PLATE 56


ELEVATION IN FEET MSL
12
8
22
18
14
10
6
6
2
6
2
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BERU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 2A- WAX LAKE OUTLET OPEN
TEST 2B- WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER


HENDERSON
WARNER LAKE
CROCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
WE OUTLET OPEN
WE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE ANNUAL FLOWS - OCT. - JUNE
WEST ATCHAFALAYA BASIN - HENDERSON LAKES
HENDERSON - LOWER BUFFALO COVE
NOVEMBER
DECEMBER
JANUARY


HENDERSON
WARNER LAKE
COCODRIE SWAMP
BERY BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
ELEVATION IN FEET MSL
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

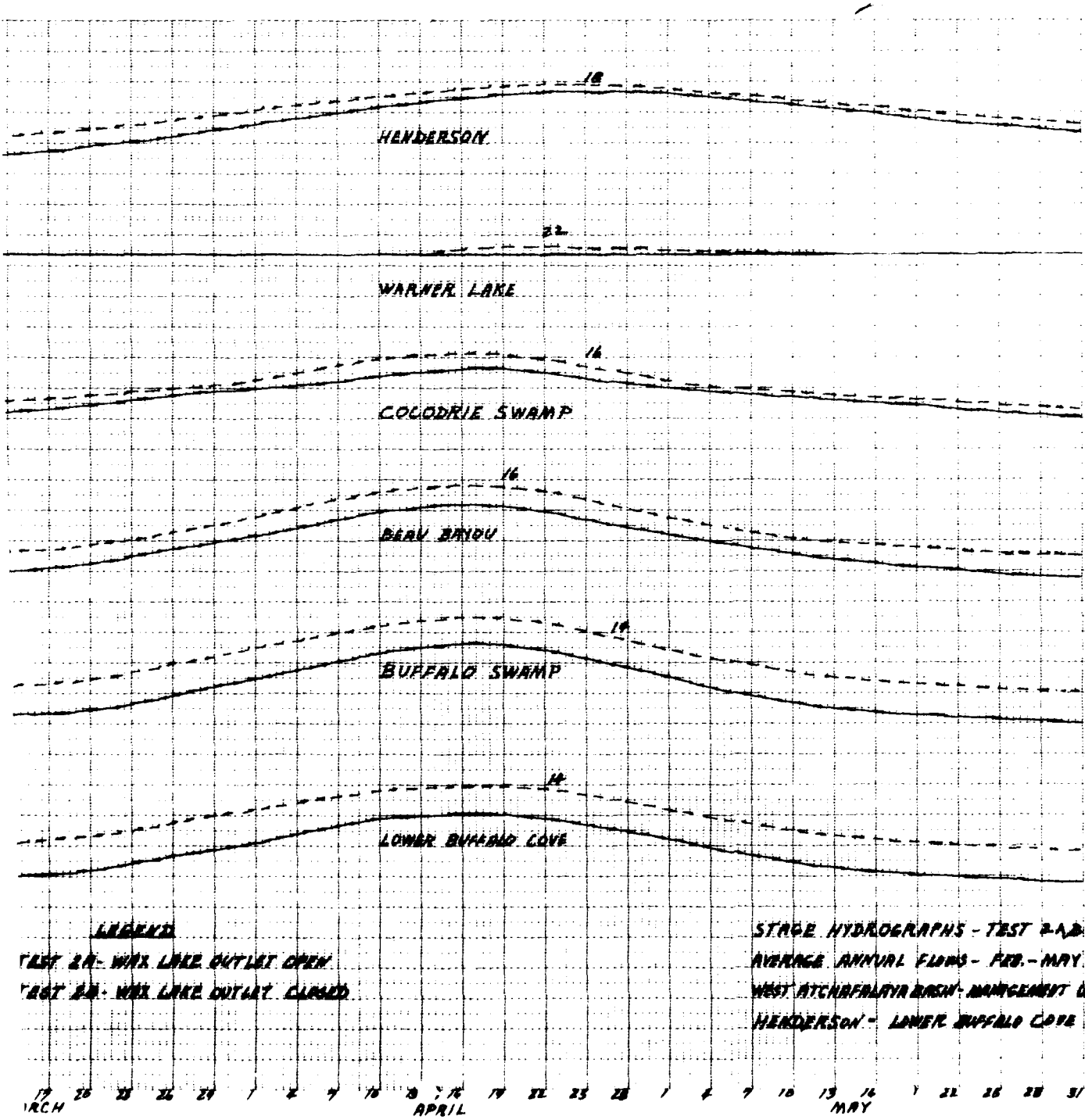
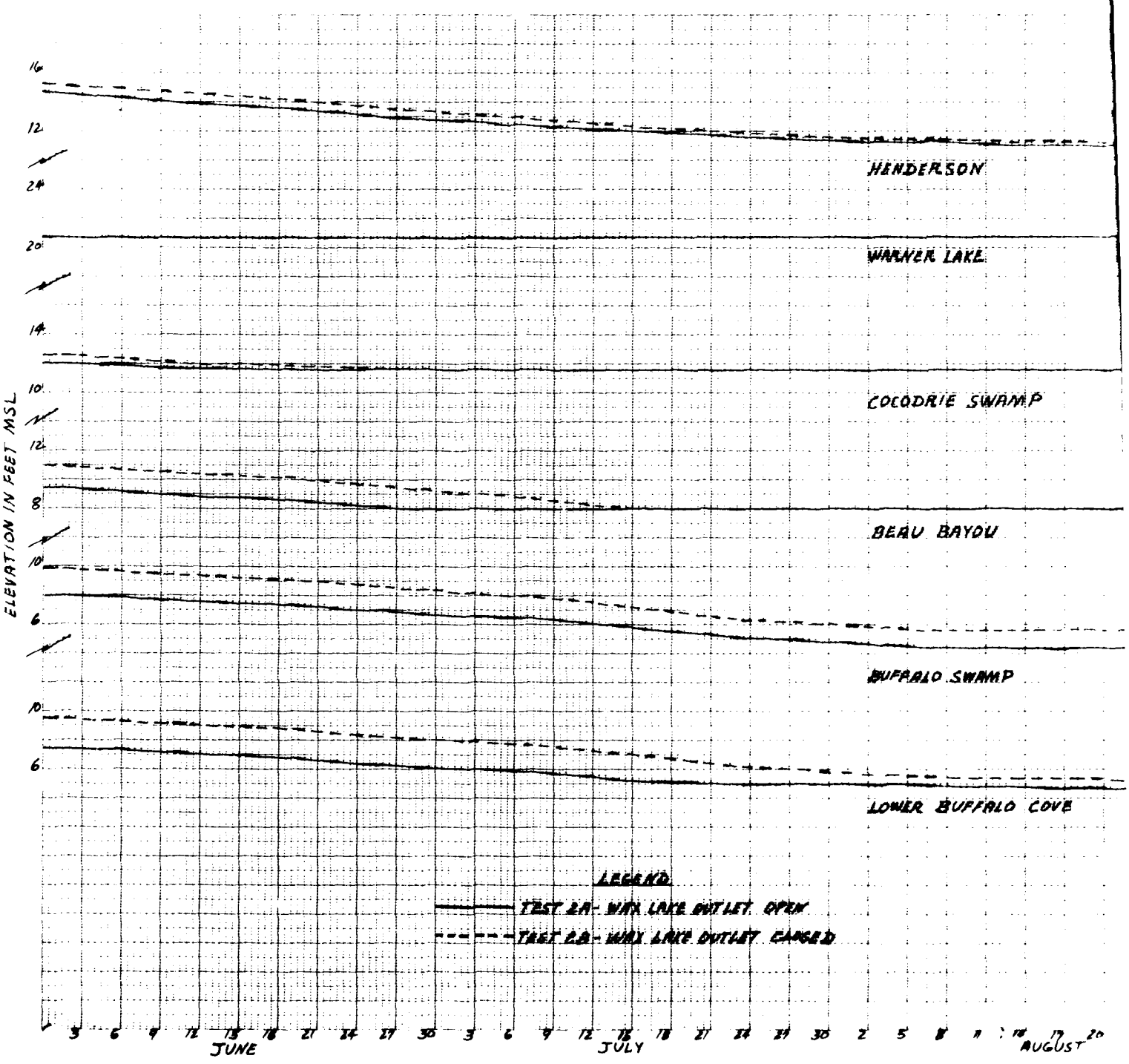
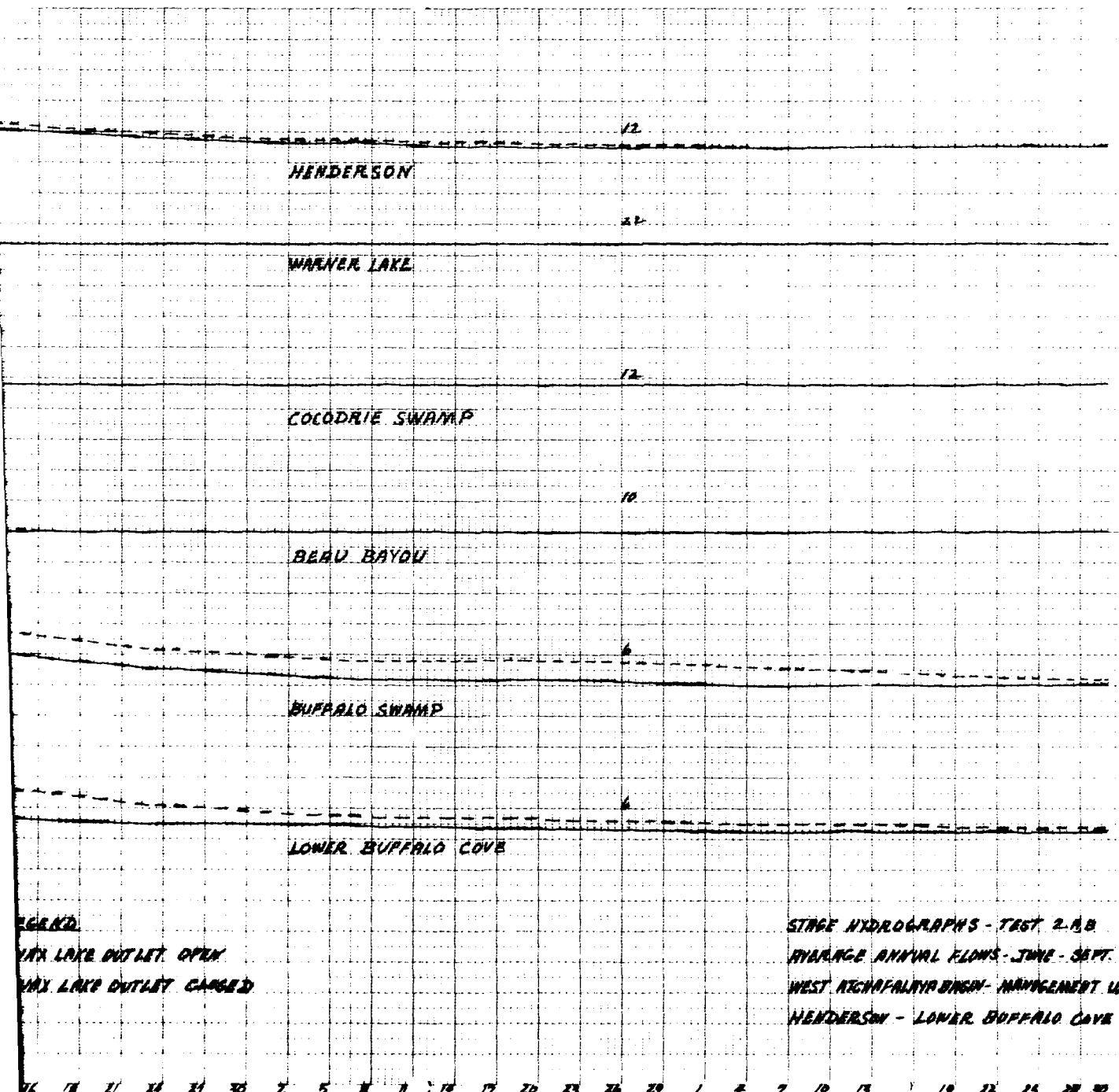

18
HENDERSON
22
WARNER LAKE
16
COCODRIE SWAMP
16
BEAU BAYOU
14
BUFFALO SWAMP
14
LOWER BUFFALO COVE
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2-A,B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE
APRIL
MAY

PLATE 58

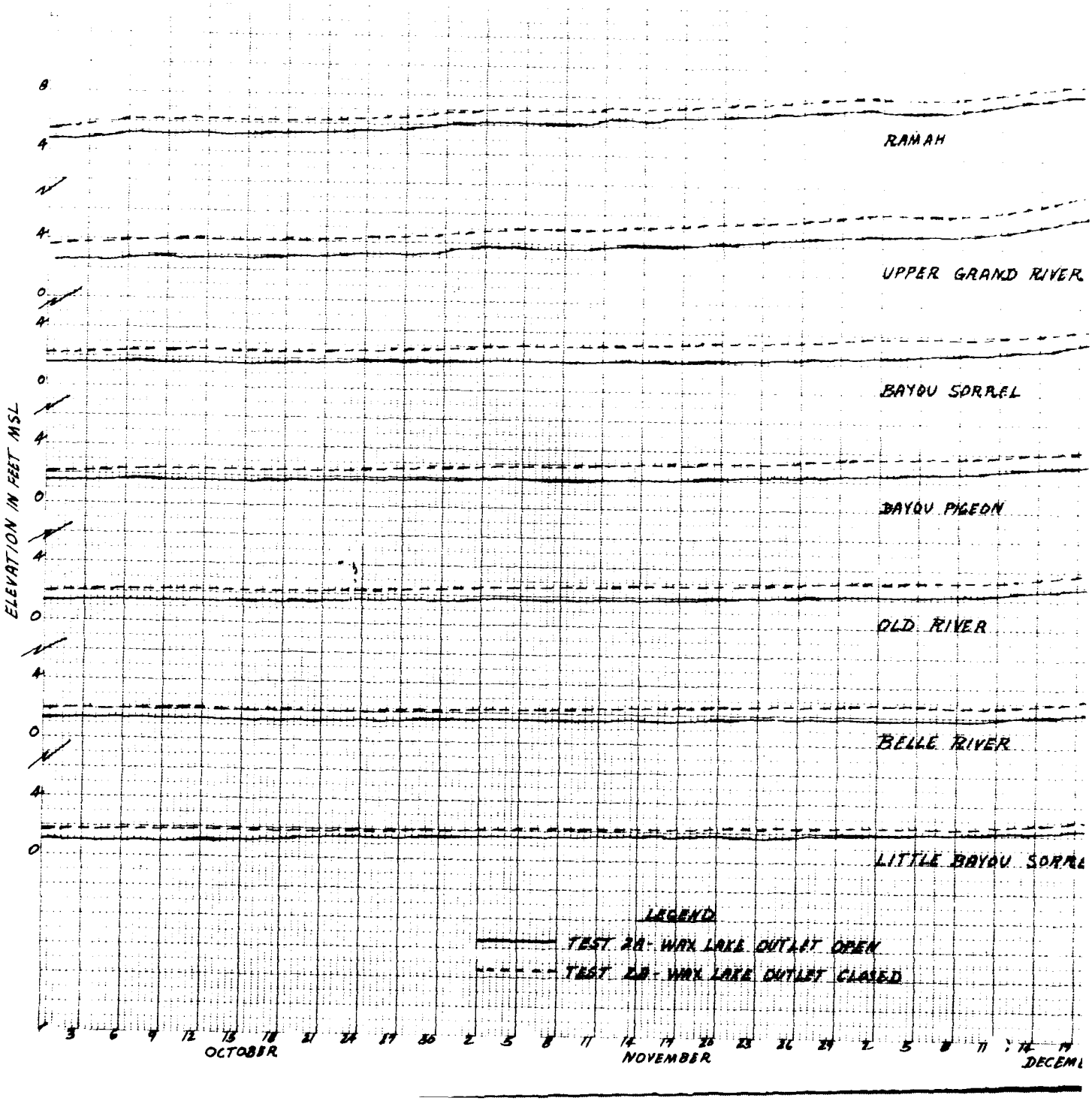

ELEVATION IN FEET MSL
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 2A - WARN LAKE OUTLET OPEN
TEST 2B - WARN LAKE OUTLET CAPPED
JUNE
JULY
AUGUST



EGEND
AX LAKE OUTLET OPEN
AX LAKE OUTLET GAGED

STAGE HYDROGRAPHS - TEST 2-A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

PLATE 59


ELEVATION IN FEET MSL
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER

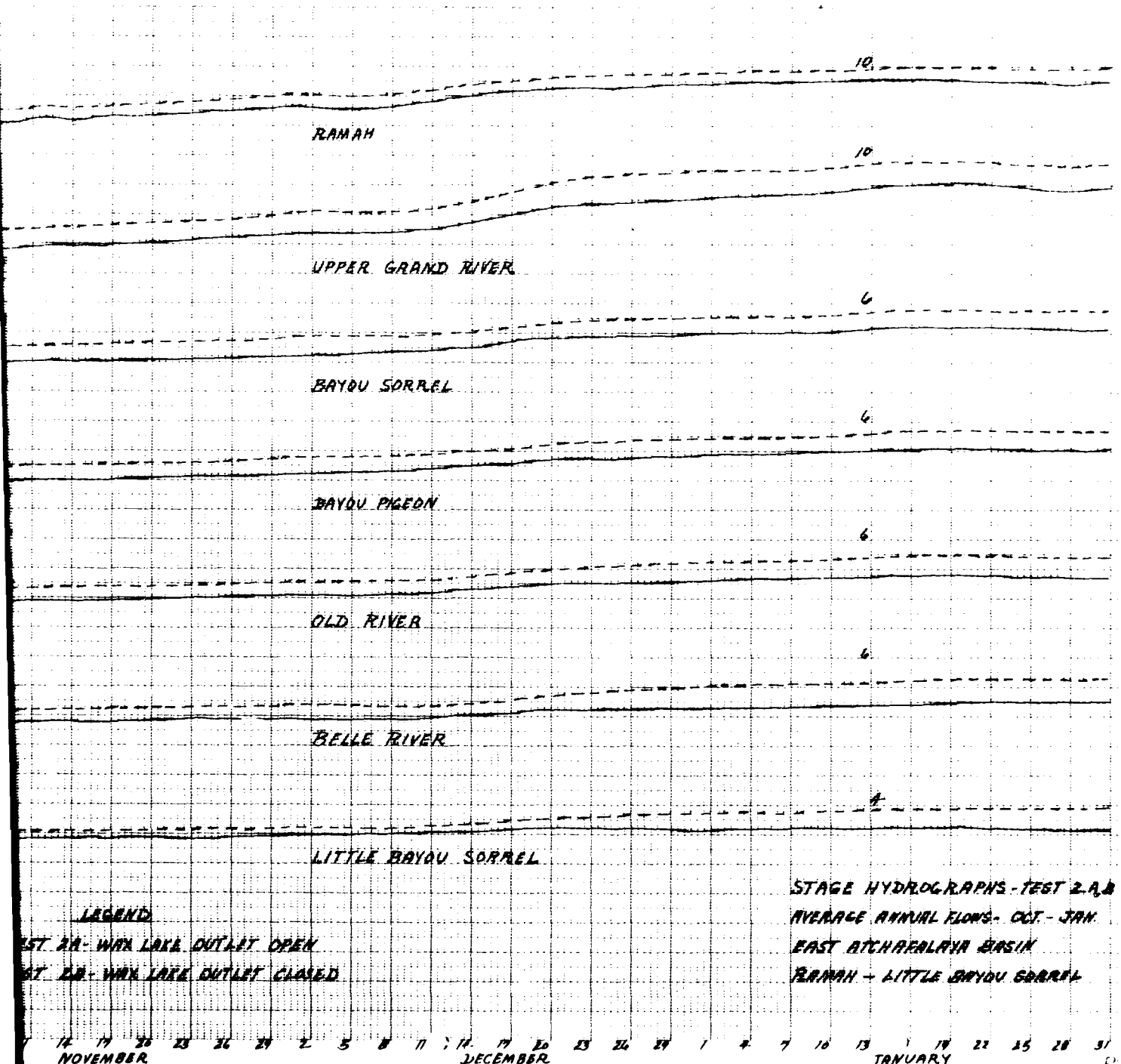
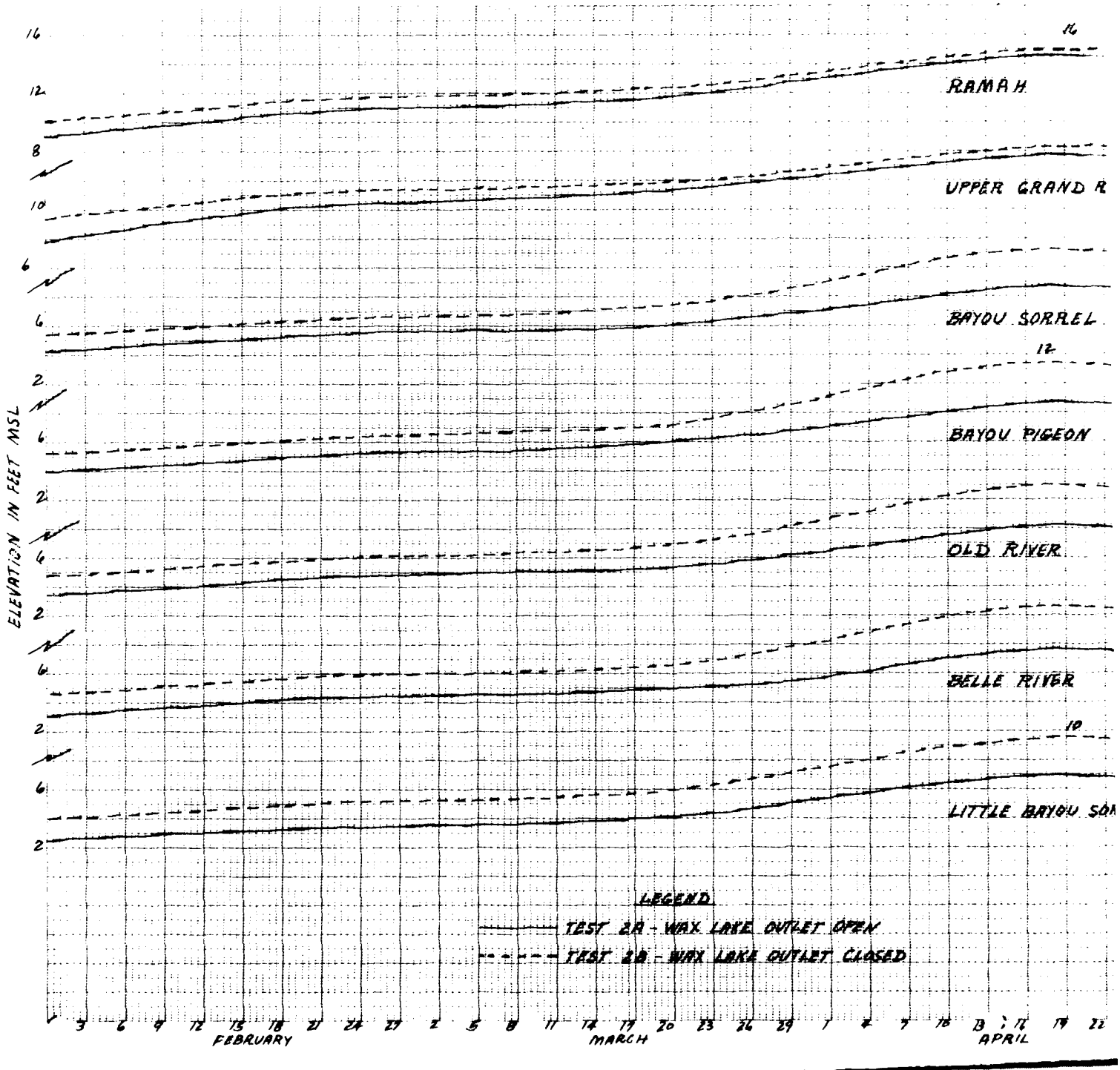

10
RAMAH
10
UPPER GRAND RIVER
6
BAYOU SORREL
6
BAYOU PIGEON
6
OLD RIVER
6
BELLE RIVER
4
LITTLE BAYOU SORREL
LEGEND
EST 2A- WAX LAKE OUTLET OPEN
ST 2B- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
RAMAH + LITTLE BAYOU SORREL
7 14 19 25 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 60


ELEVATION IN FEET MSL
RAMAH
UPPER GRAND R
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SOR
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

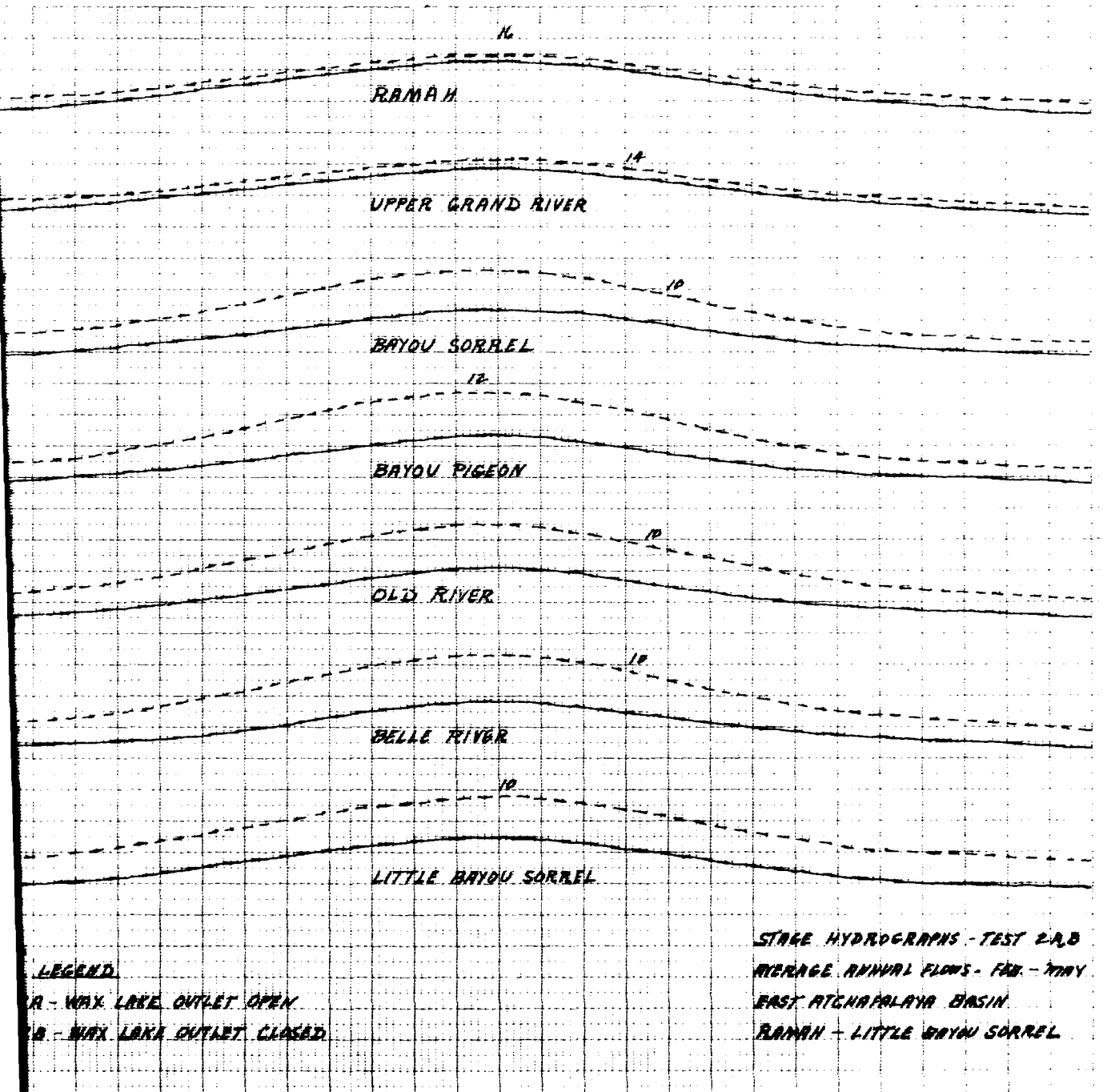
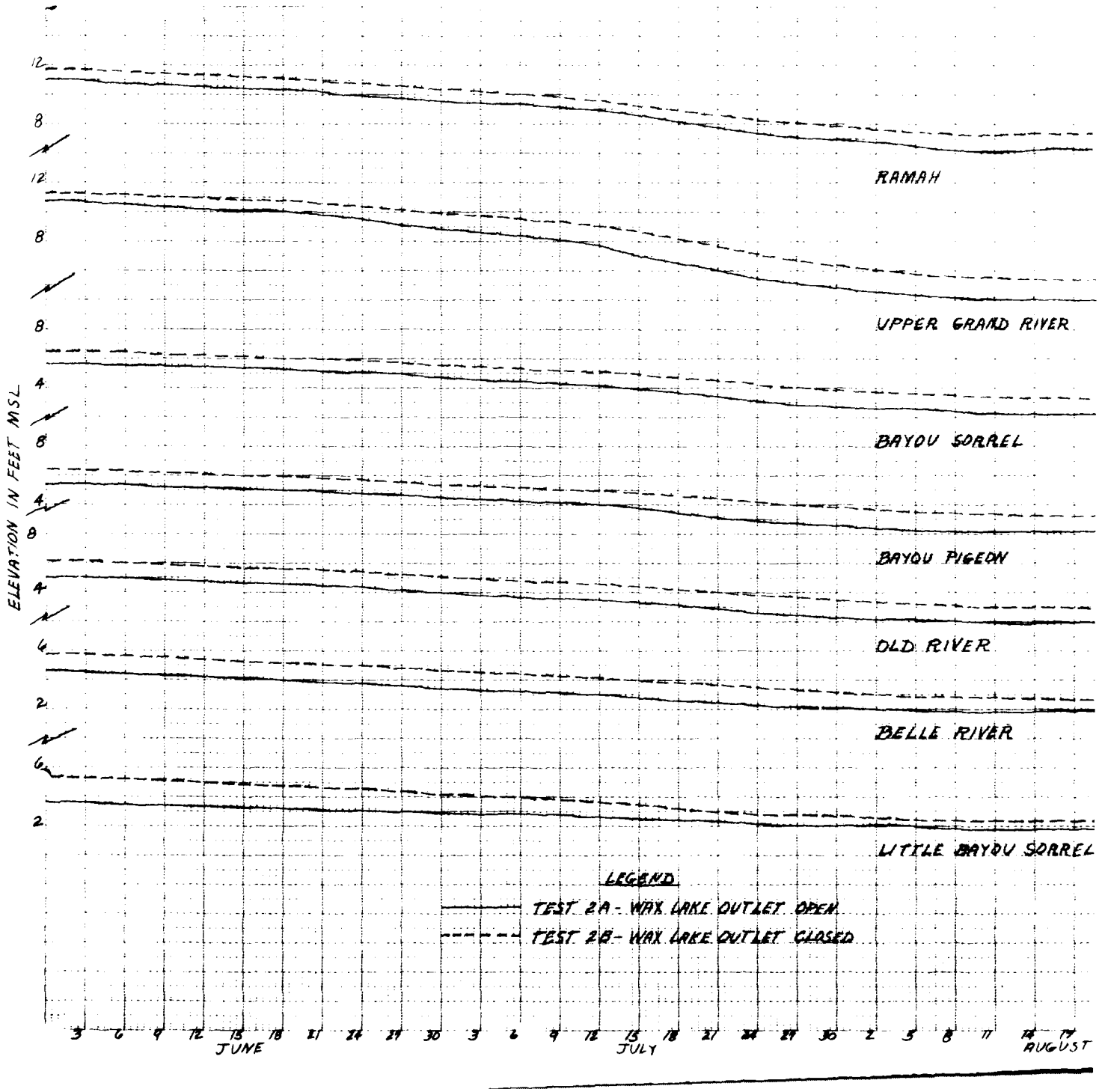

16
RAMAH
14
UPPER GRAND RIVER
10
BAYOU SORREL
12
BAYOU PIGEON
10
OLD RIVER
10
BELLE RIVER
10
LITTLE BAYOU SORREL
LEGEND
R - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2A,B
AVERAGE ANNUAL FLOWS - FAB. - MAY
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
APRIL
MAY

PLATE 61


ELEVATION IN FEET MSL
12
8
12
8
8
4
8
4
8
4
6
2
6
2
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

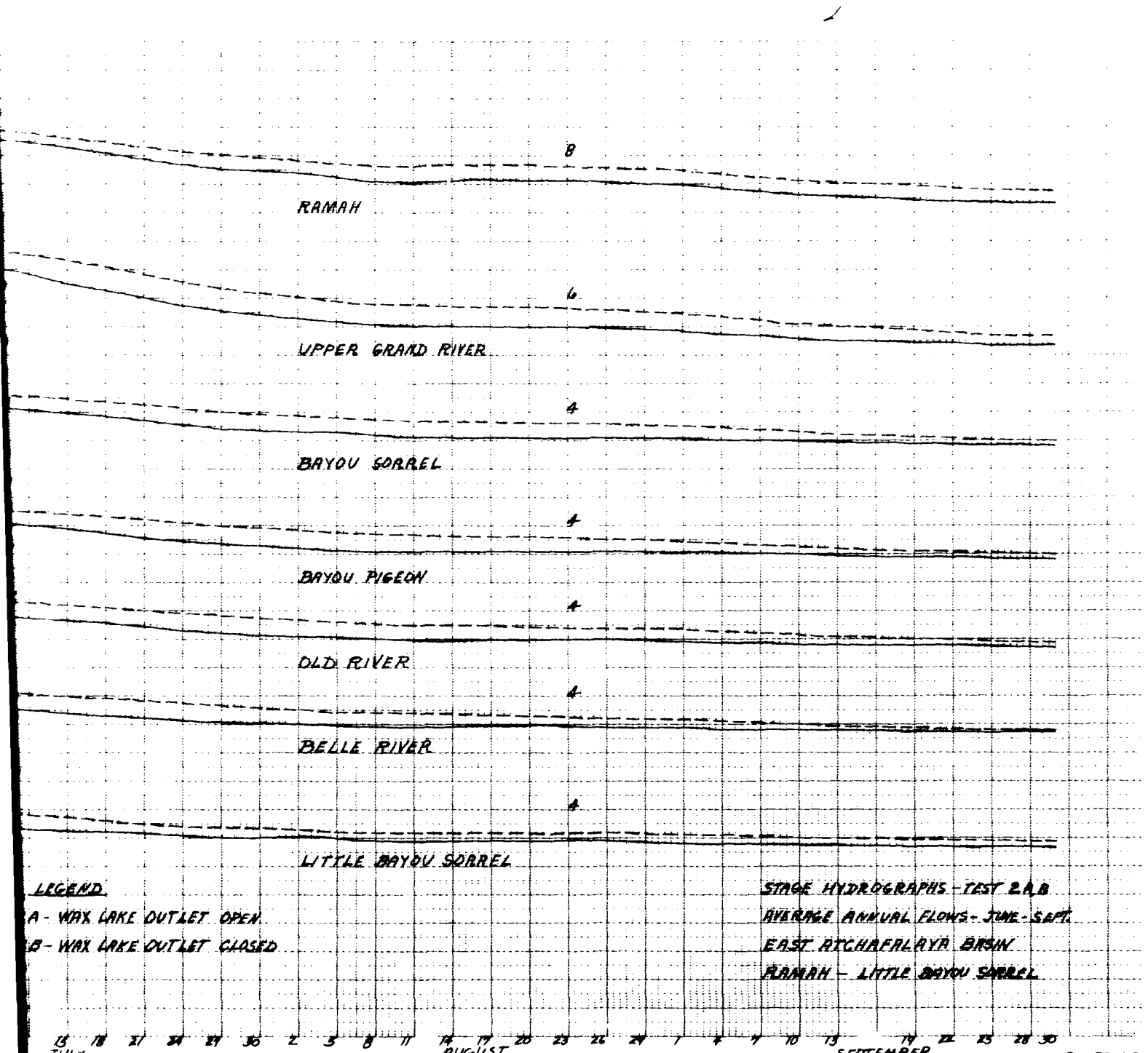
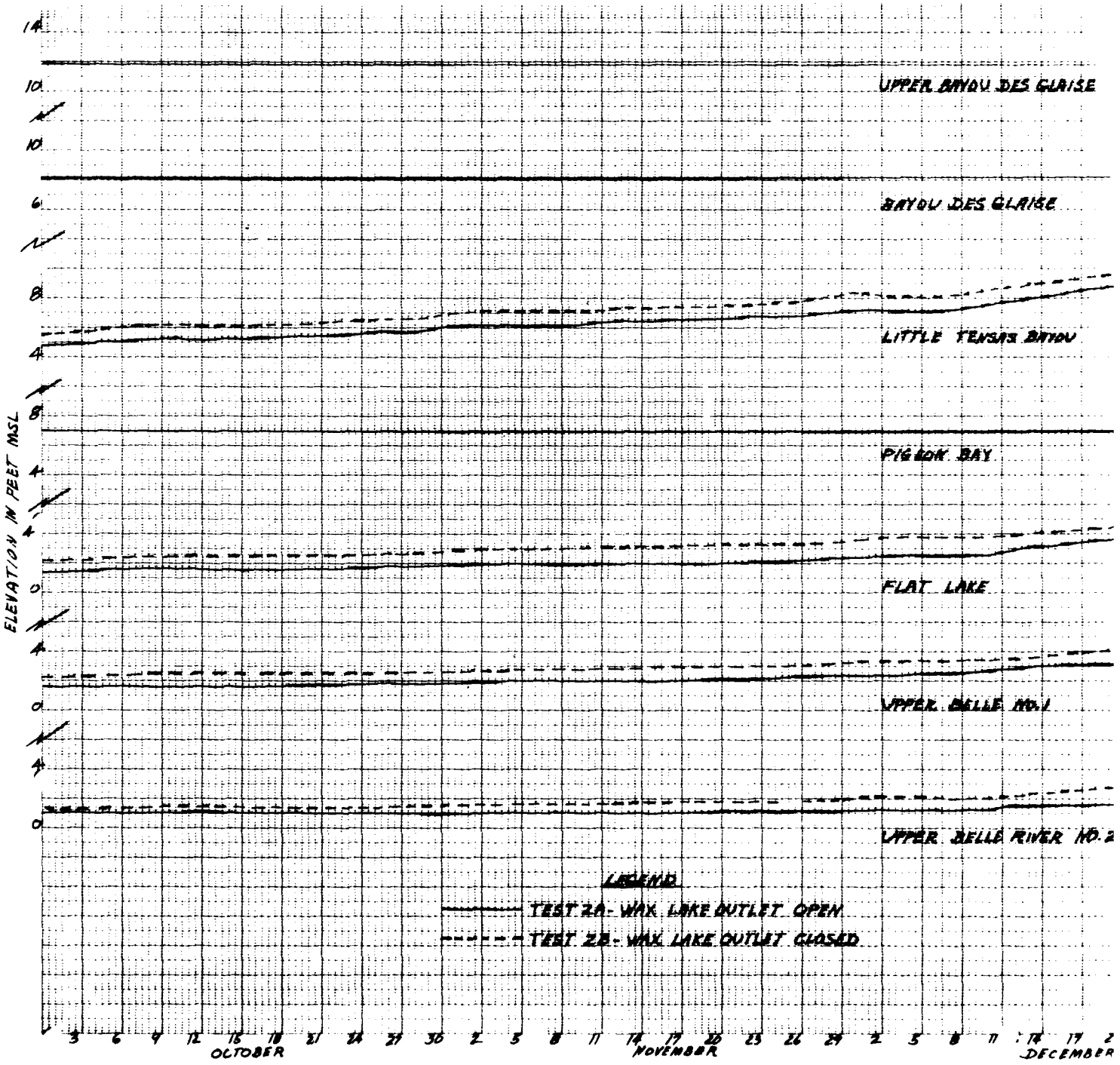

8
RAMAH
6
UPPER GRAND RIVER
4
BAYOU SORREL
4
BAYOU PIGEON
4
OLD RIVER
4
BELLE RIVER
4
LITTLE BAYOU SORREL
LEGEND
A - WAX LAKE OUTLET OPEN
B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A & B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 62


ELEVATION IN FEET MSL
UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
LITTLE TENSAS BAYOU
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER
LOWER BELLE RIVER
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

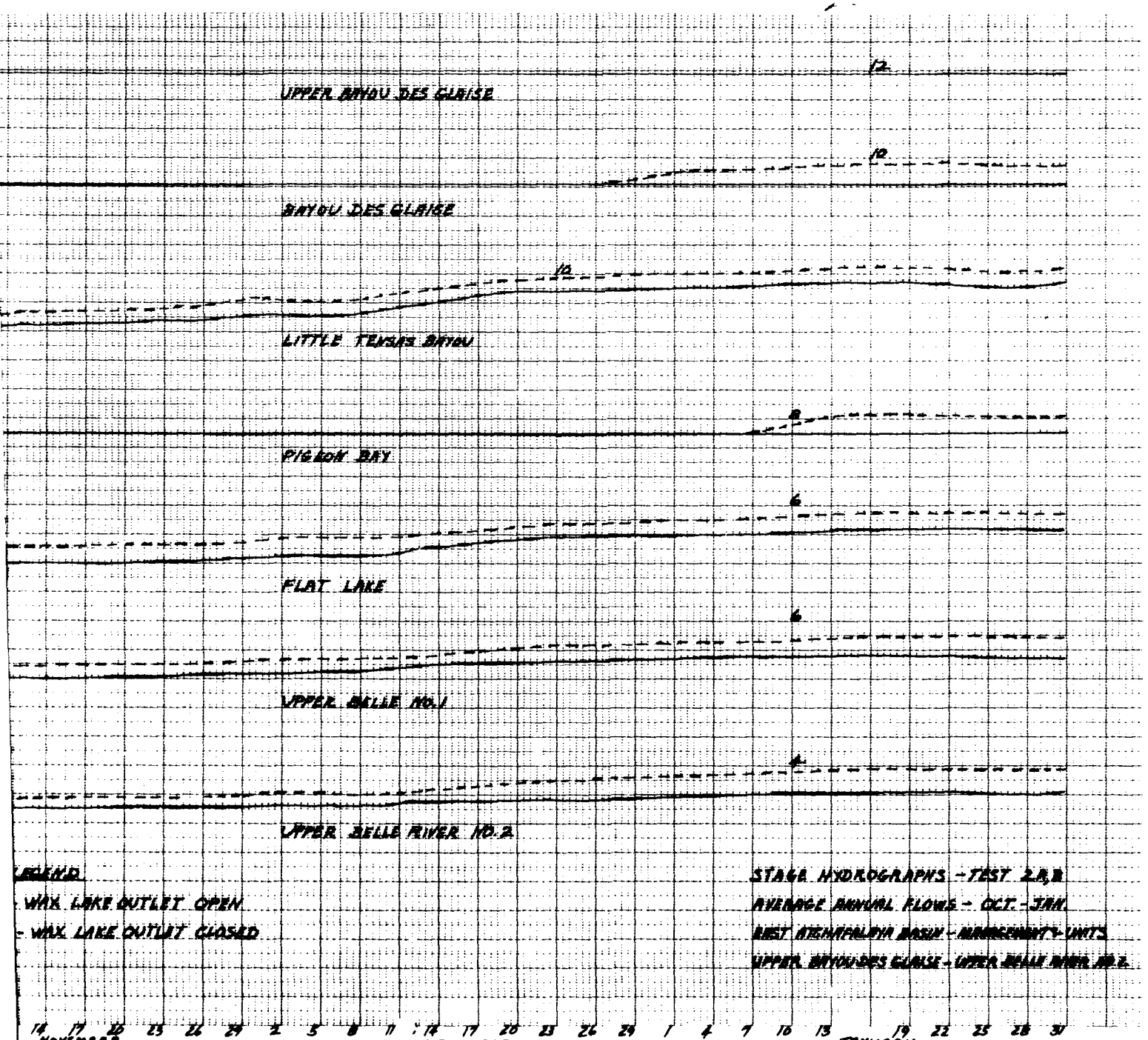
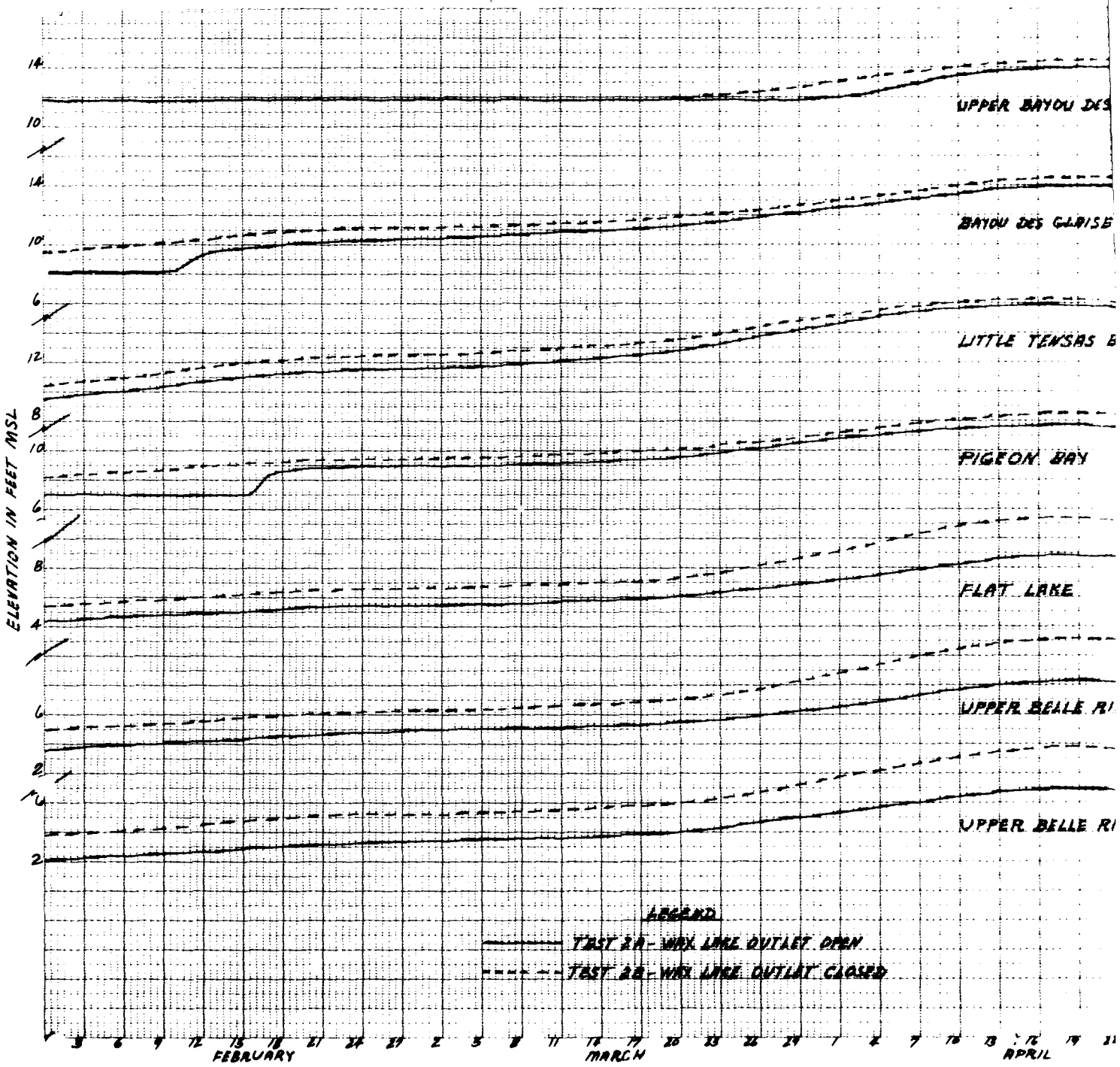
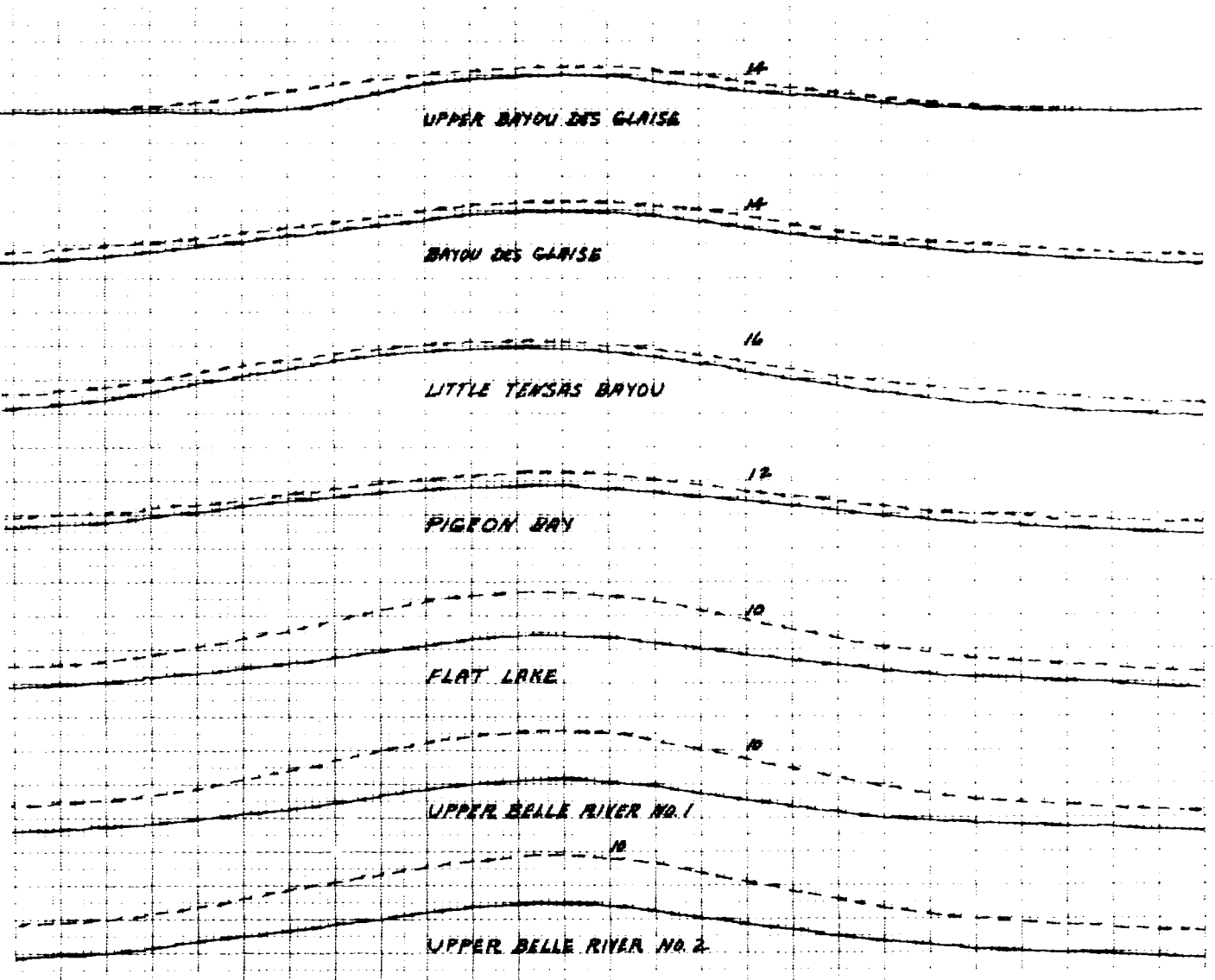

12
UPPER BAYOU DES GLAISE
12
BAYOU DES GLAISE
12
LITTLE TENSAS BAYOU
8
PIGEON BAY
6
FLAT LAKE
6
UPPER BELLE NO. 1
4
UPPER BELLE RIVER NO. 2
LEGEND
WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
RED ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 63


ELEVATION IN FEET MSL
UPPER BAYOU DES
BAYOU DES GLAISE
LITTLE TENSAS B
PIGEON BAY
FLAT LAKE
UPPER BELLE RI
UPPER BELLE RI
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



LEGEND

T 2A - WHX LAKE OUTLET OPEN

T 2B - WHX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 2A,B

AVERAGE ANNUAL FLOWS - FEB. - MAY

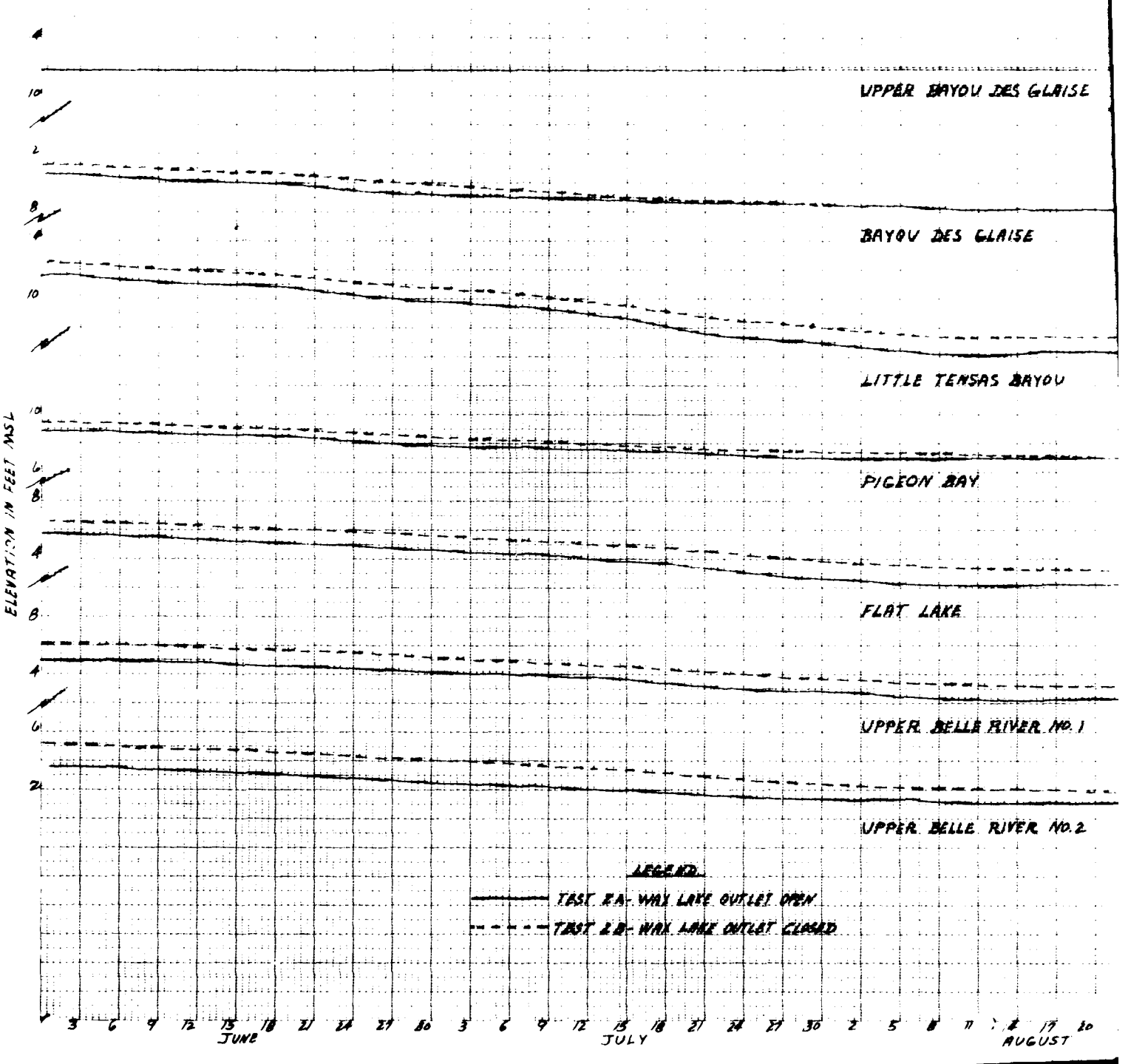
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS

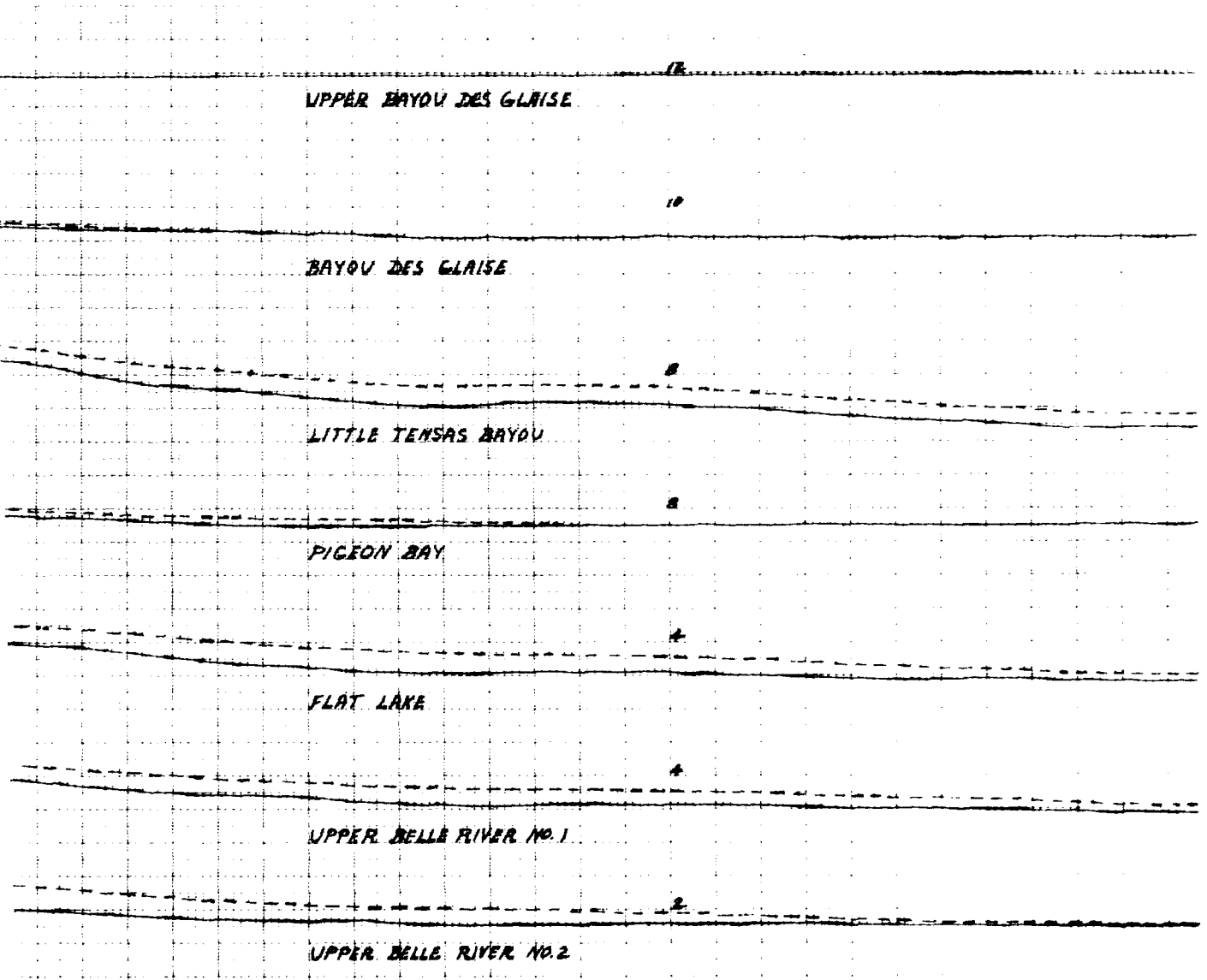
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2

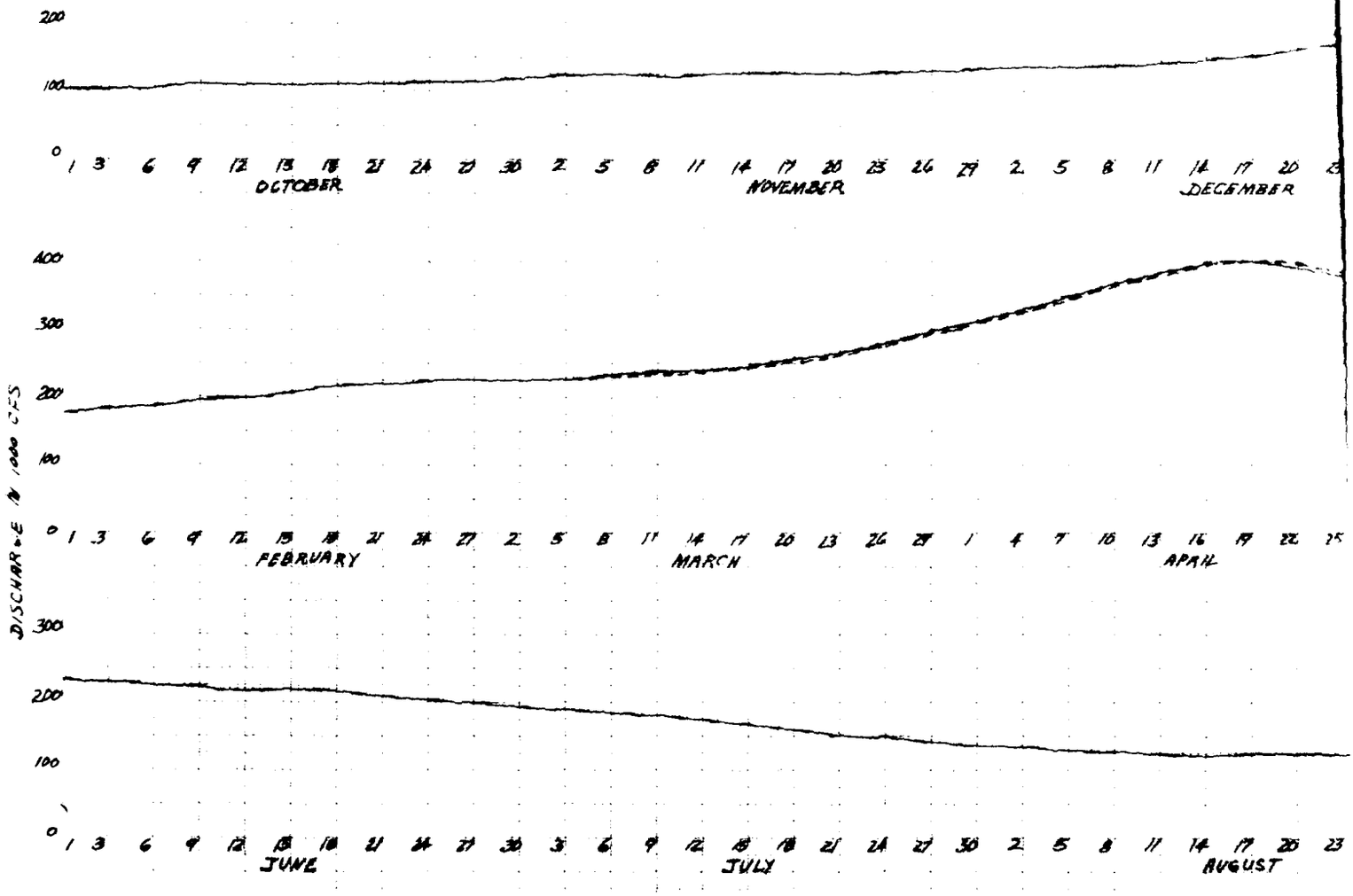
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31

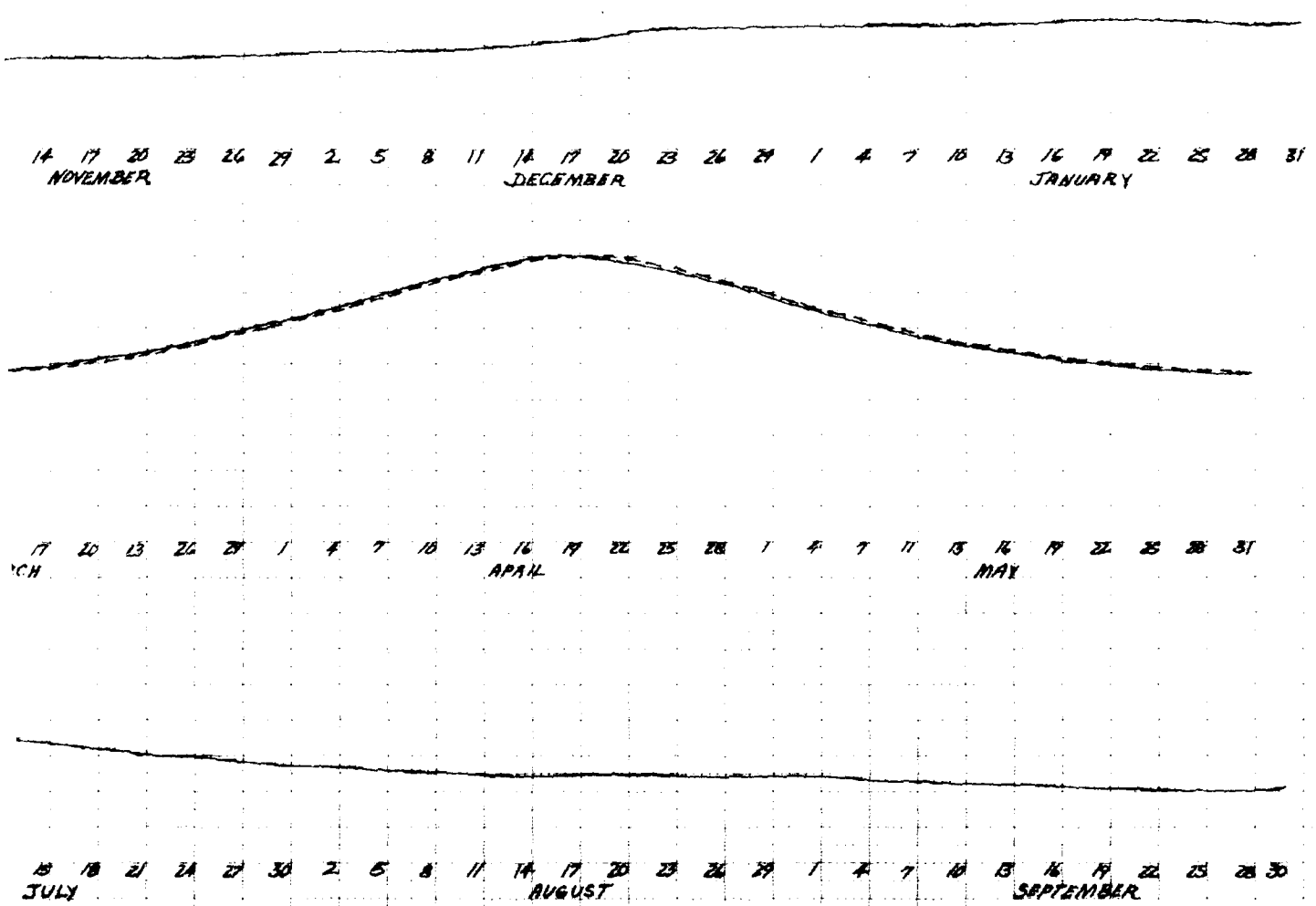
RCH APRIL MAY

PLATE 64


UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
LITTLE TENSAS BAYOU
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
ELEVATION IN FEET MSL
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED
JUNE
JULY
AUGUST


12
UPPER BAYOU DES GLAISE
10
BAYOU DES GLAISE
8
LITTLE TENSAS BAYOU
8
PIGEON BAY
4
FLAT LAKE
4
UPPER BELLE RIVER NO. 1
2
UPPER BELLE RIVER NO. 2
LEGEND
A- WAX LAKE OUTLET OPEN
B- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 2 A, B
AVERAGE RUNOFF FLOWS - JUNE - SEPT
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO 2
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER


200
100
0
1 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER
400
300
200
100
0
1 3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 28 1 4 7 10 13 16 19 22 25
FEBRUARY
MARCH
APRIL
DISCHARGE IN 1000 CFS
300
200
100
0
1 3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23
JUNE
JULY
AUGUST
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2B - WAX LAKE OUTLET CLOSED



LEGEND

— TEST 2A - WAX LAKE OUTLET OPEN

– – TEST 2B - WAX LAKE OUTLET CLOSED

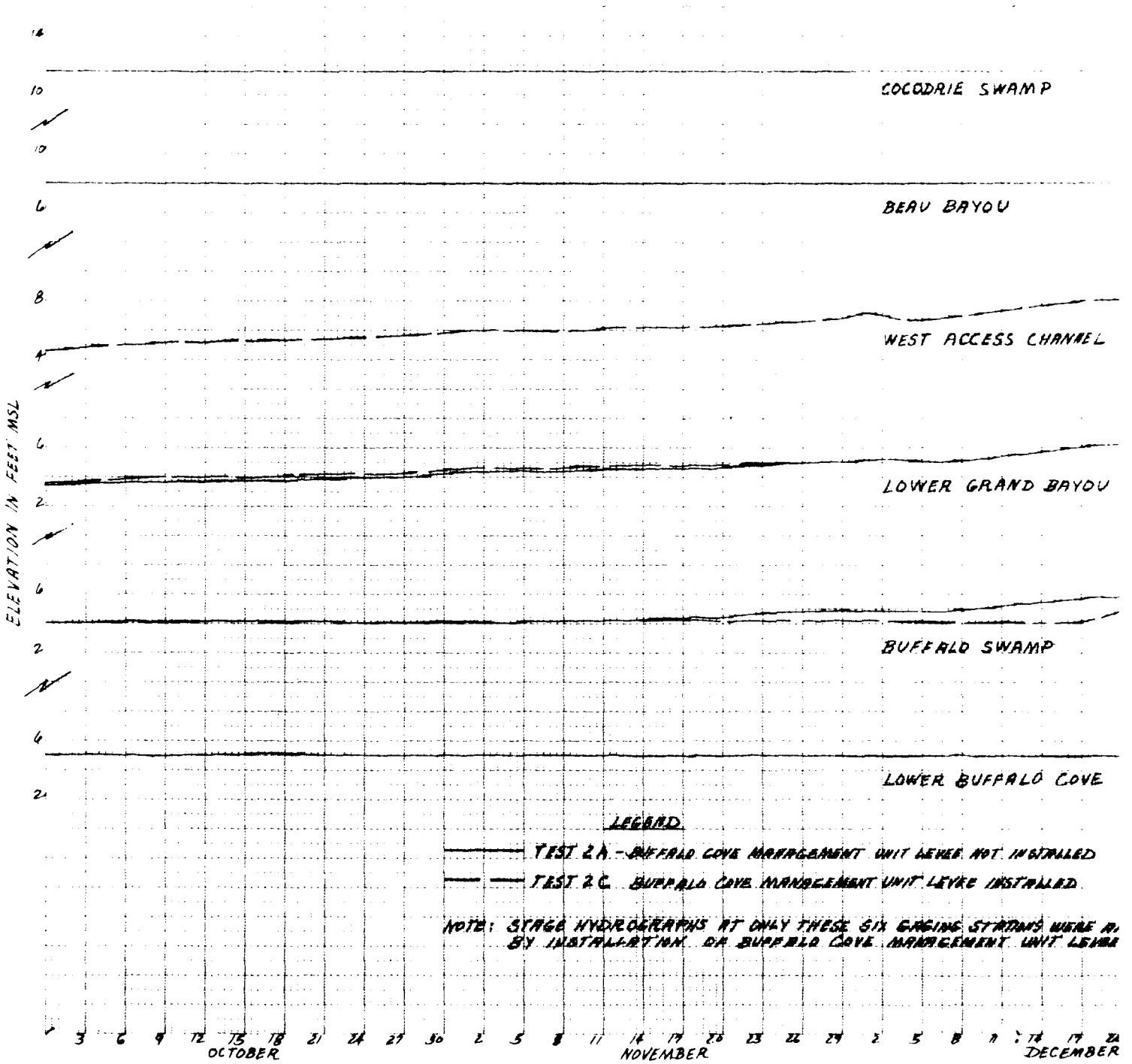
DISCHARGE HYDROGRAPHS-TEST 2A,B

AVERAGE ANNUAL FLOWS - OCT. - SEPT.

ATCHAFALAYA BAY

EUGENE ISLAND, LA.

PLATE 66


COCODRIE SWAMP
BEAU BAYOU
WEST ACCESS CHANNEL
LOWER GRAND BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
ELEVATION IN FEET MSL
LEGEND
TEST 2A - BUFFALO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED
TEST 2C BUFFALO COVE MANAGEMENT UNIT LEVEE INSTALLED
NOTE: STAGE HYDROGRAPHS AT ONLY THESE SIX GAGING STATIONS WERE A
BY INSTALLATION OF BUFFALO COVE MANAGEMENT UNIT LEVEE
OCTOBER
NOVEMBER
DECEMBER

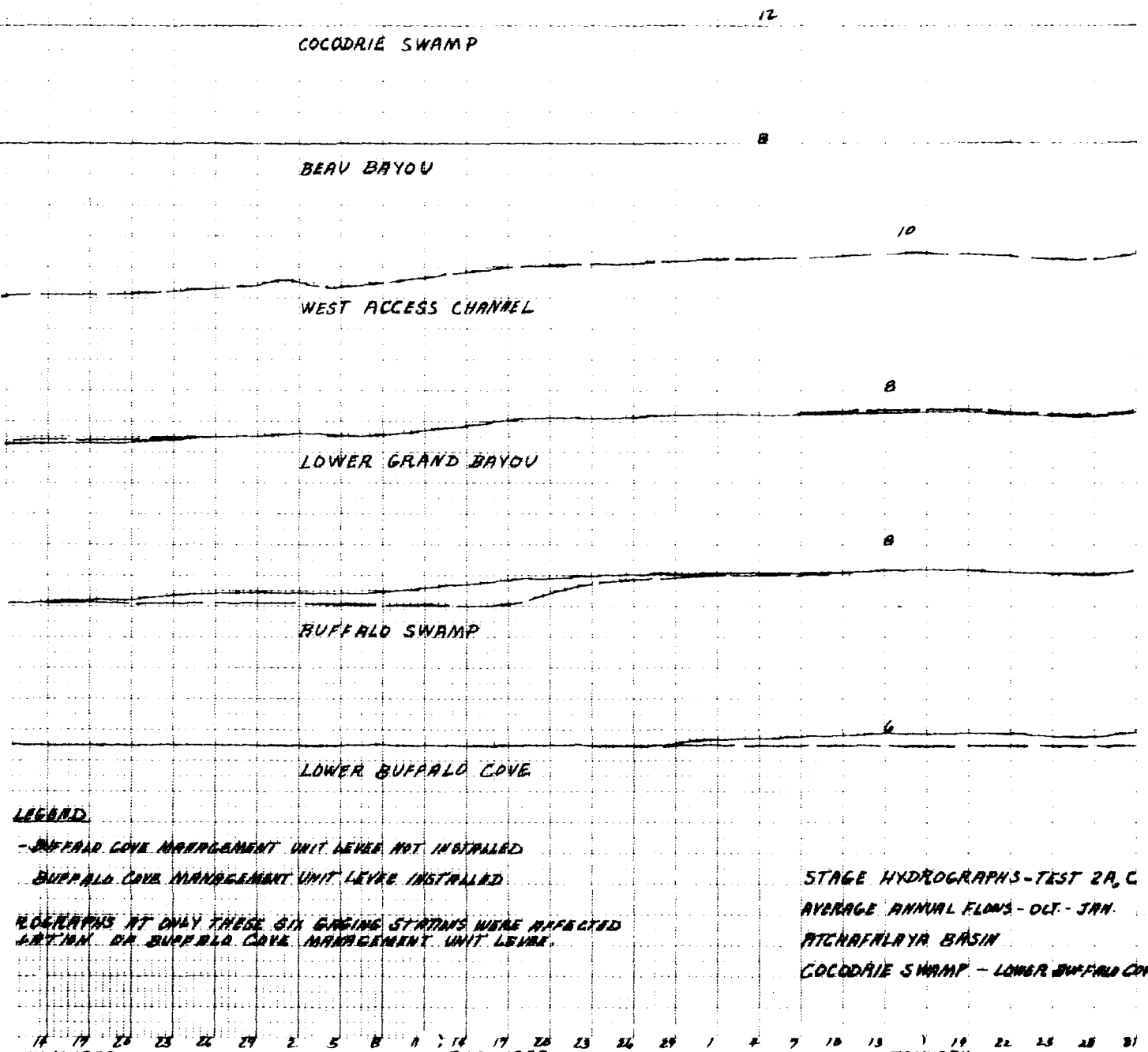
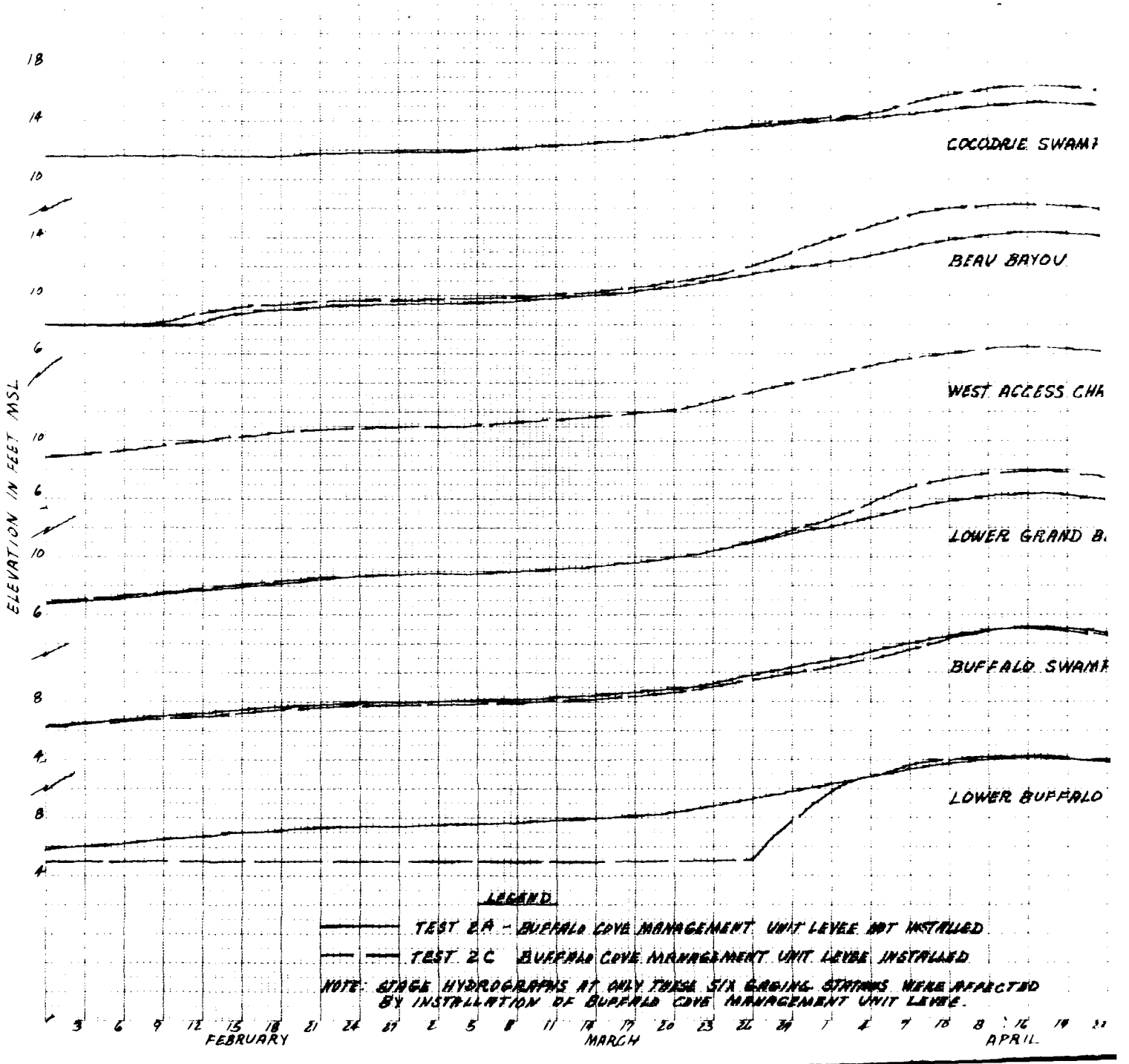
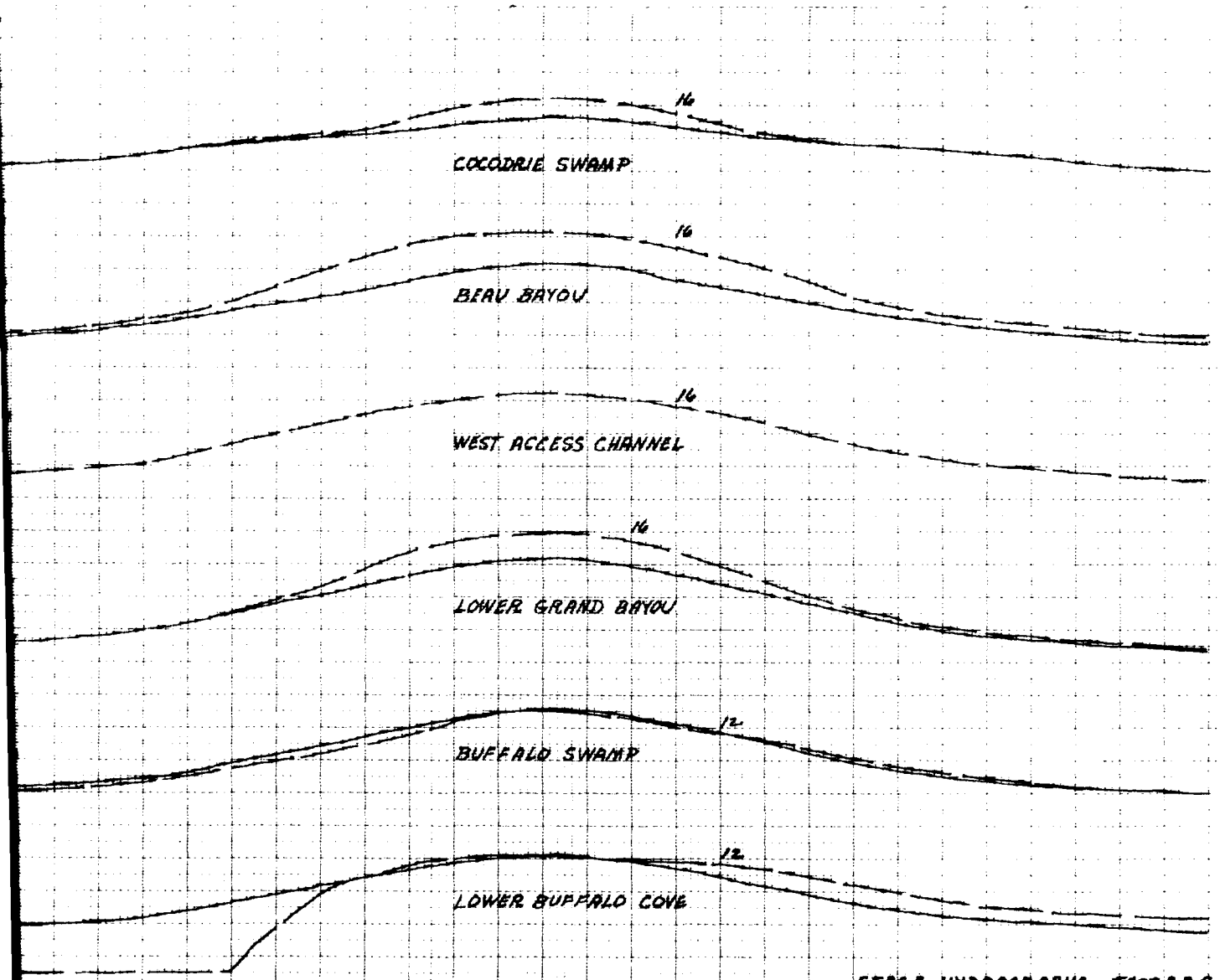

12
COCODRIE SWAMP
8
BEAU BAYOU
10
WEST ACCESS CHANNEL
8
LOWER GRAND BAYOU
8
BUFFALO SWAMP
6
LOWER BUFFALO COVE
LEGEND
- BUFFALO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED
BUFFALO COVE MANAGEMENT UNIT LEVEE INSTALLED
HYDROGRAPHS AT ONLY THESE SIX GAGING STATIONS WERE AFFECTED BY ACTION OF BUFFALO COVE MANAGEMENT UNIT LEVEE.
STAGE HYDROGRAPHS - TEST 2A, C
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN
COCODRIE SWAMP - LOWER BUFFALO COVE
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 67


ELEVATION IN FEET MSL
COCODRIE SWAMP
BEAU BAYOU
WEST ACCESS CHA
LOWER GRAND B
BUFFALO SWAMP
LOWER BUFFALO
LEGEND
TEST 2A - BUFFALO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED
TEST 2C BUFFALO COVE MANAGEMENT UNIT LEVEE INSTALLED
NOTE: STAGE HYDROGRAPHS AT ONLY THESE SIX GAGING STATIONS WERE AFFECTED BY INSTALLATION OF BUFFALO COVE MANAGEMENT UNIT LEVEE.
FEBRUARY
MARCH
APRIL



STAGE HYDROGRAPHS - TEST 2 A, C

AVERAGE ANNUAL FLOWS - FEB. - MAY

ATCHAFALAYA BASIN

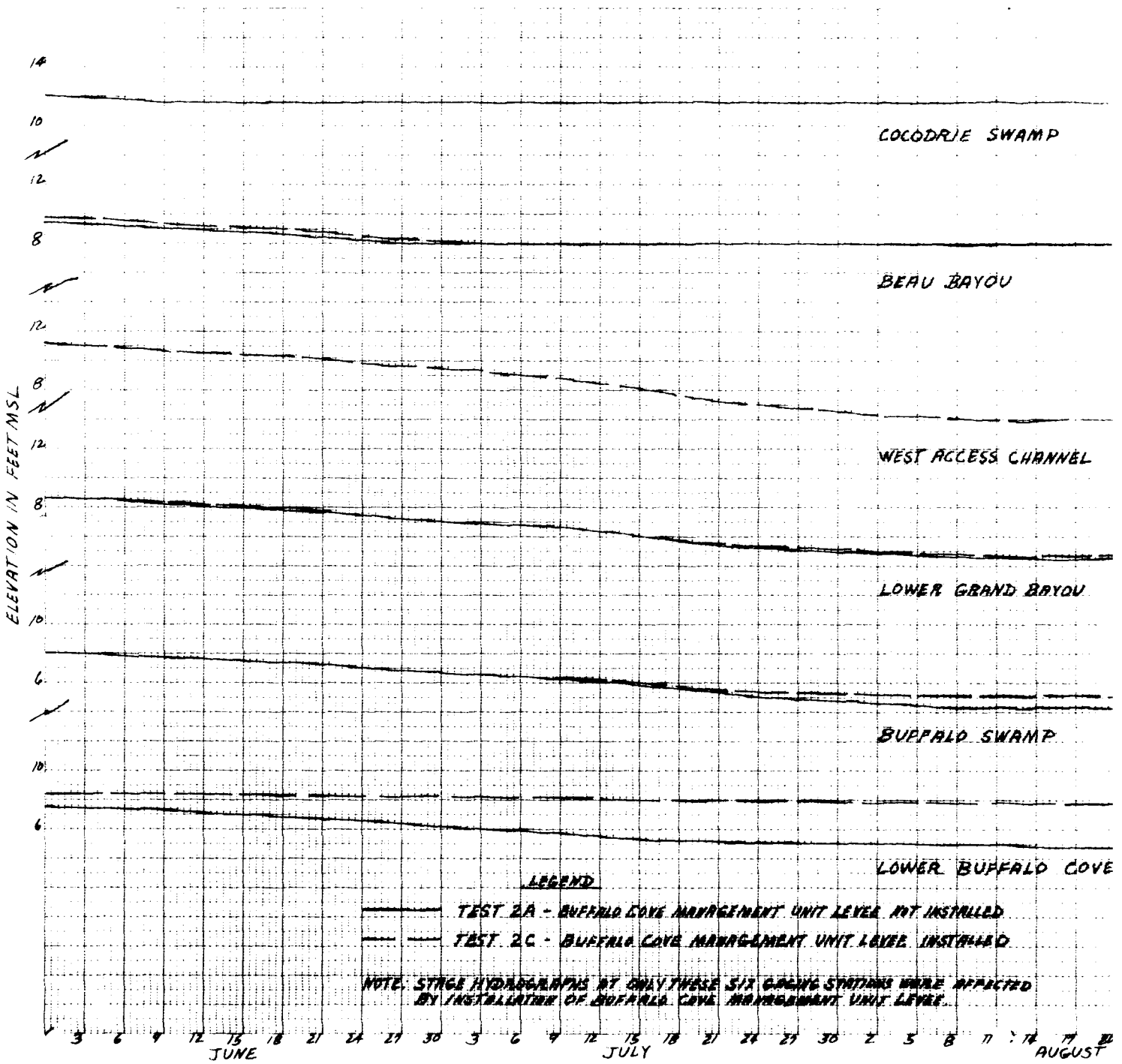
COCODRIE SWAMP - LOWER BUFFALO COVE

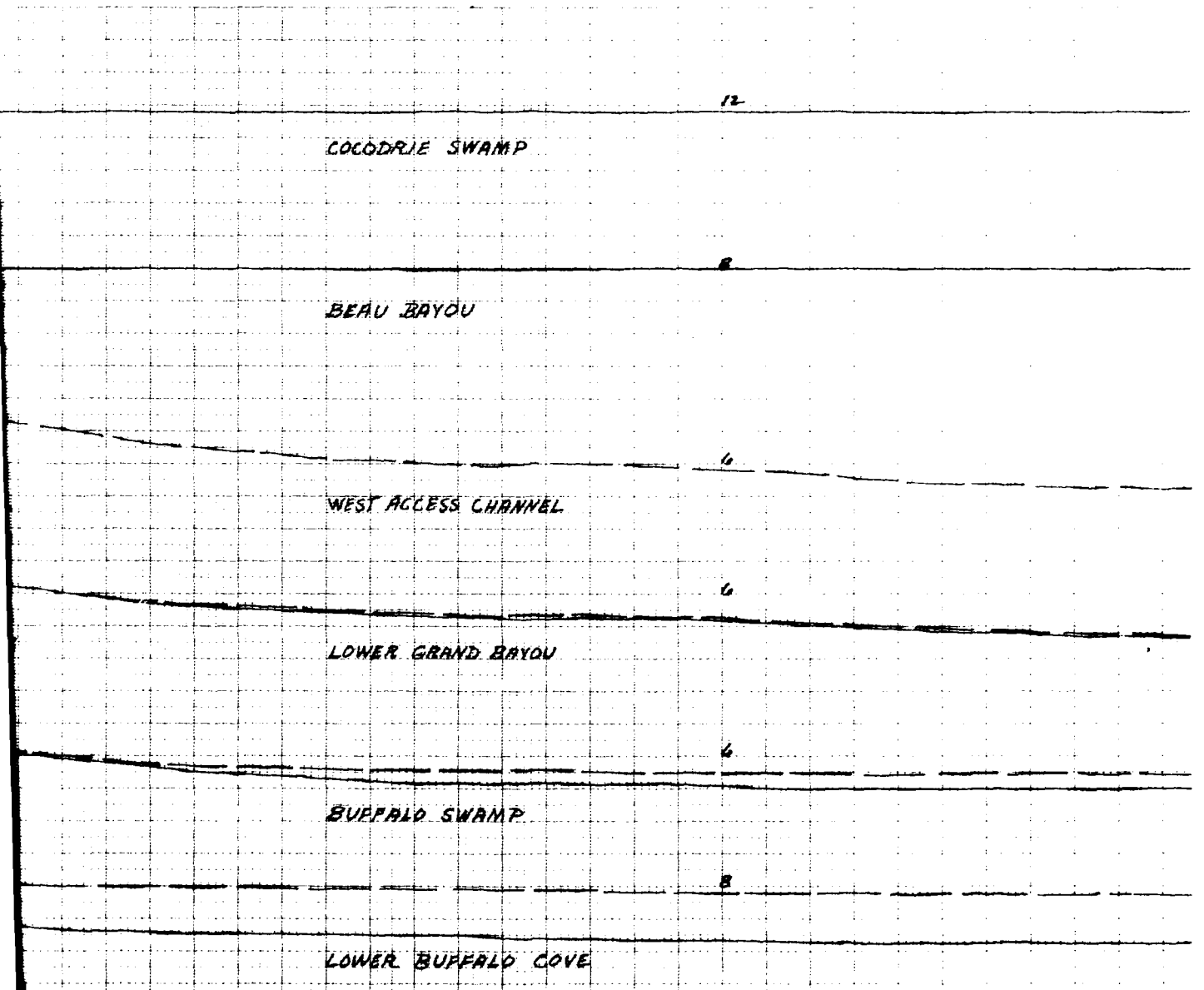
LO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED

ALO COVE MANAGEMENT UNIT LEVEE INSTALLED

AT ONLY THESE SIX GAGING STATIONS WERE AFFECTED BUFFALO COVE MANAGEMENT UNIT LEVEE.

PLATE 68


ELEVATION IN FEET MSL
14
10
12
8
12
8
12
8
10
6
10
6
COCODRIE SWAMP
BEAU BAYOU
WEST ACCESS CHANNEL
LOWER GRAND BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 2A - BUFFALO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED
TEST 2C - BUFFALO COVE MANAGEMENT UNIT LEVEE INSTALLED
NOTE: STAGE HYDROGRAPHS AT ONLY THESE SIX GAGING STATIONS WERE AFFECTED BY INSTALLATION OF BUFFALO COVE MANAGEMENT UNIT LEVEE.
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST



...LO COVE MANAGEMENT UNIT LEVEE NOT INSTALLED

...LO COVE MANAGEMENT UNIT LEVEE INSTALLED

...T ONLY THESE SIX GAGING STATIONS WERE AFFECTED ...FFALO COVE MANAGEMENT UNIT LEVEE.

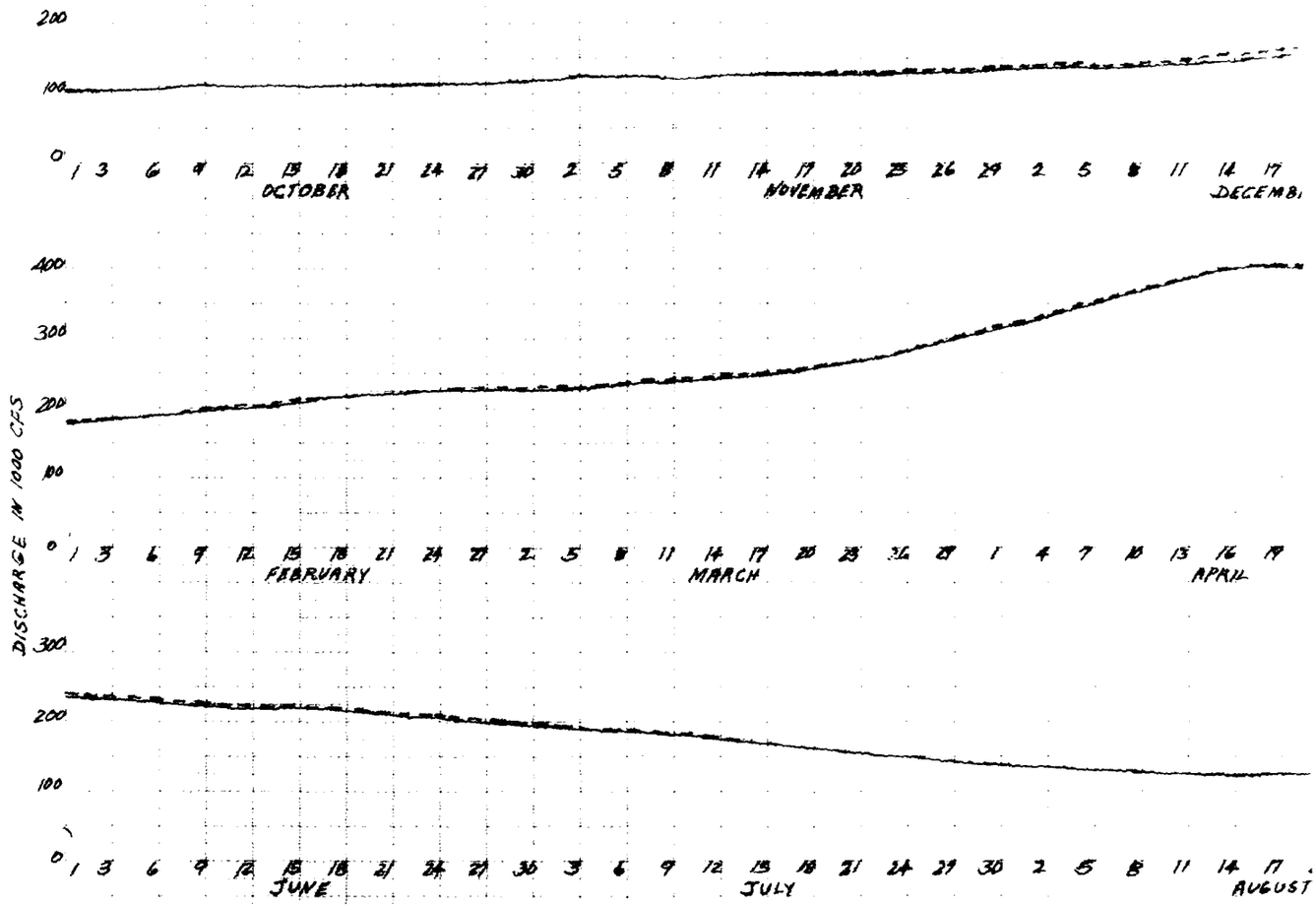
STAGE HYDROGRAPHS - TEST 2 A, C

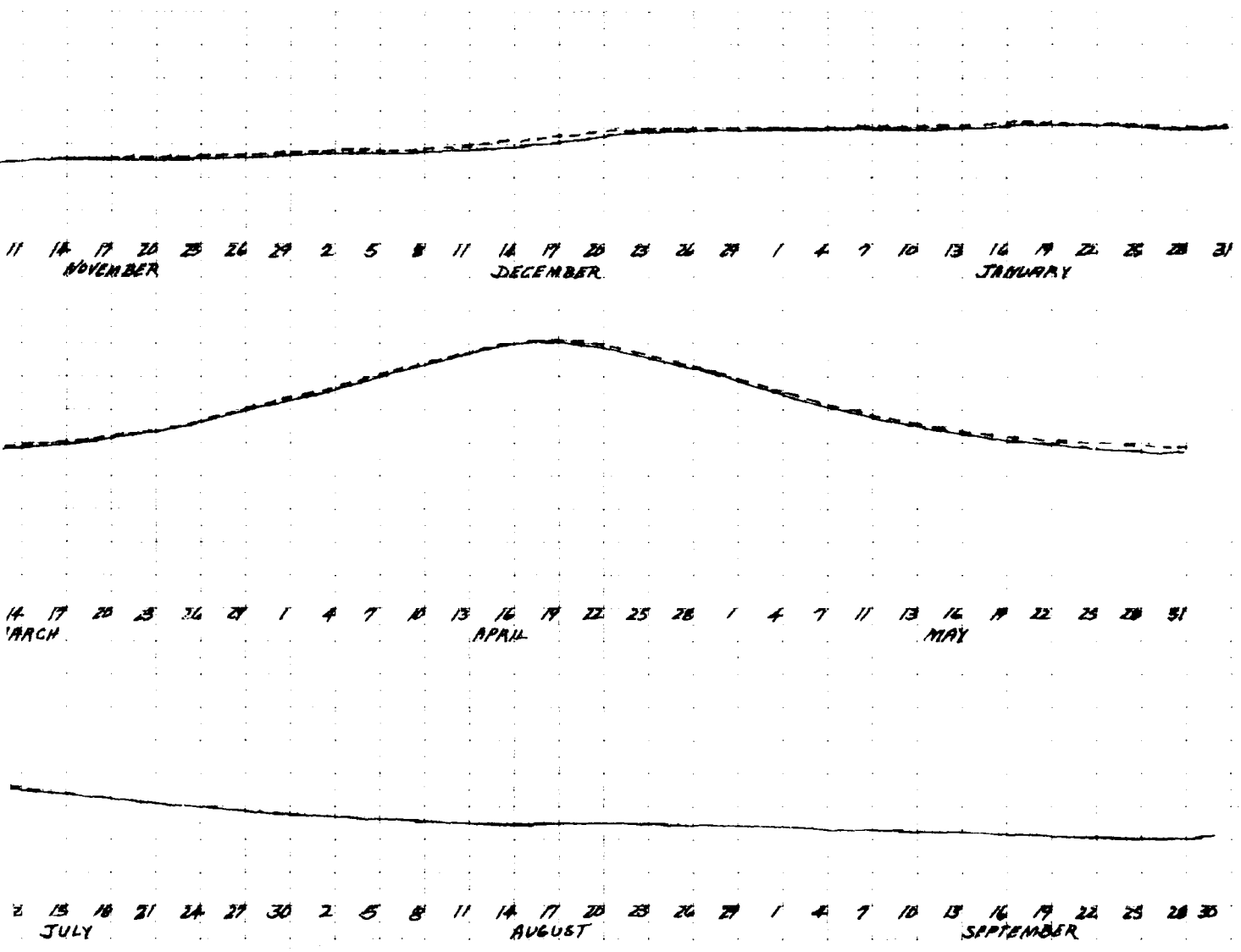
AVERAGE ANNUAL FLOWS - JUNE - SEPT.

ATCHAFALAYA BASIN

COCODRIE SWAMP - LOWER BUFFALO COVE

PLATE 69


DISCHARGE IN 1000 CFS
200
100
0
1 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 25 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMBER
400
300
200
100
0
1 3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19
FEBRUARY
MARCH
APRIL
300
200
100
0
1 3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17
JUNE
JULY
AUGUST
LEGEND
TEST 2A - WAX LAKE OUTLET OPEN
TEST 2C - BUFFALO COVE MANAGEMENT UNIT LEVEE IN

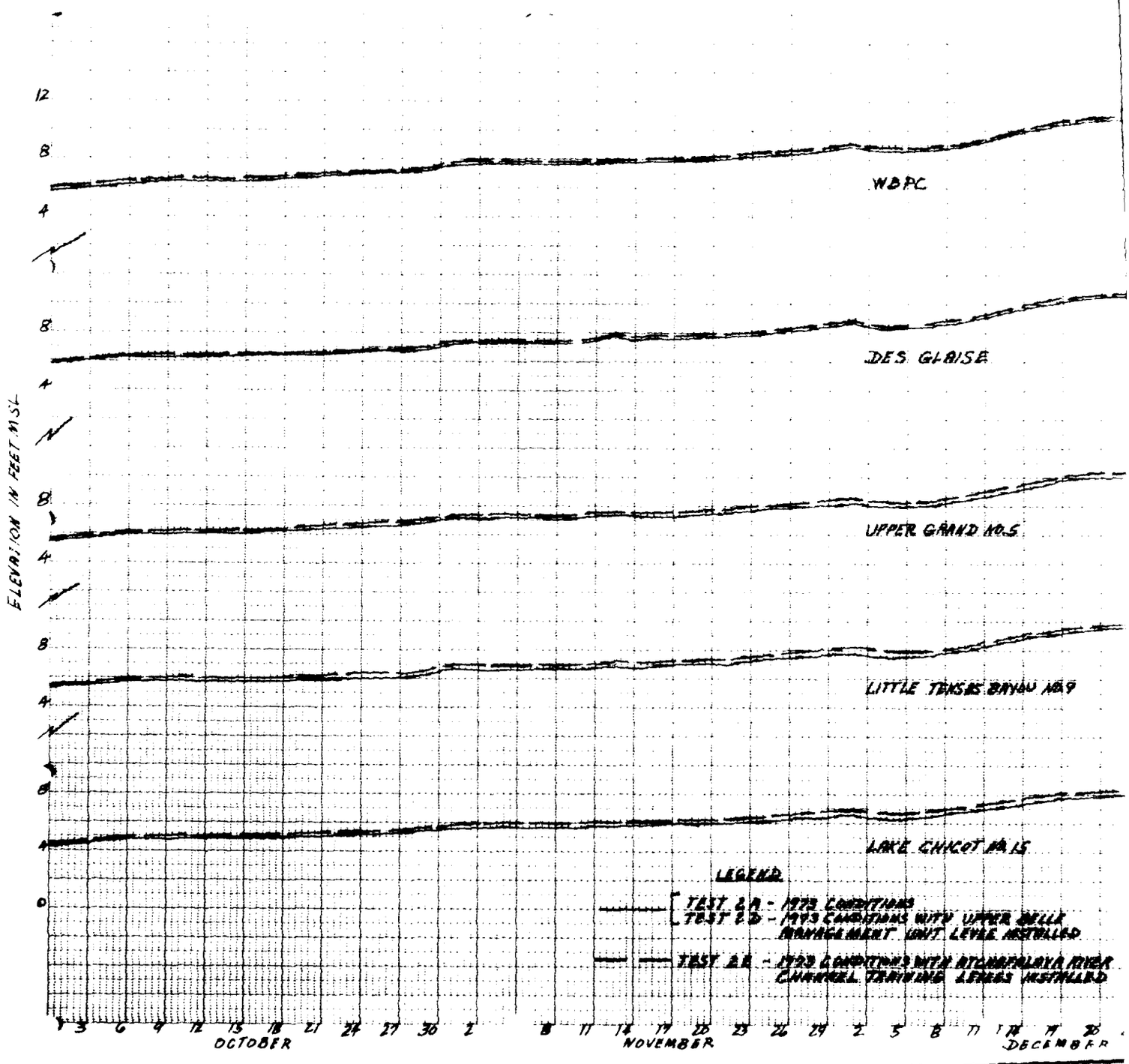


LEGEND

——— TEST 2A - WAX LAKE OUTLET OPEN

- - - - TEST 2C - BUFFALO COVE MANAGEMENT UNIT LEVEE INSTALLED

DISCHARGE HYDROGRAPHS - TEST 2A,C
AVERAGE ANNUAL FLOWS - OCT. - SEPT.
ATCHAFALAYA BAY
EUGENE ISLAND, LA


ELEVATION IN FEET MSL
12
8
4
0
WDPC
DES GLAISE
UPPER GRAND NO.5
LITTLE TEXAS BAYOU NO.9
LAKE CHICOT NO.15
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER DELTA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
1 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

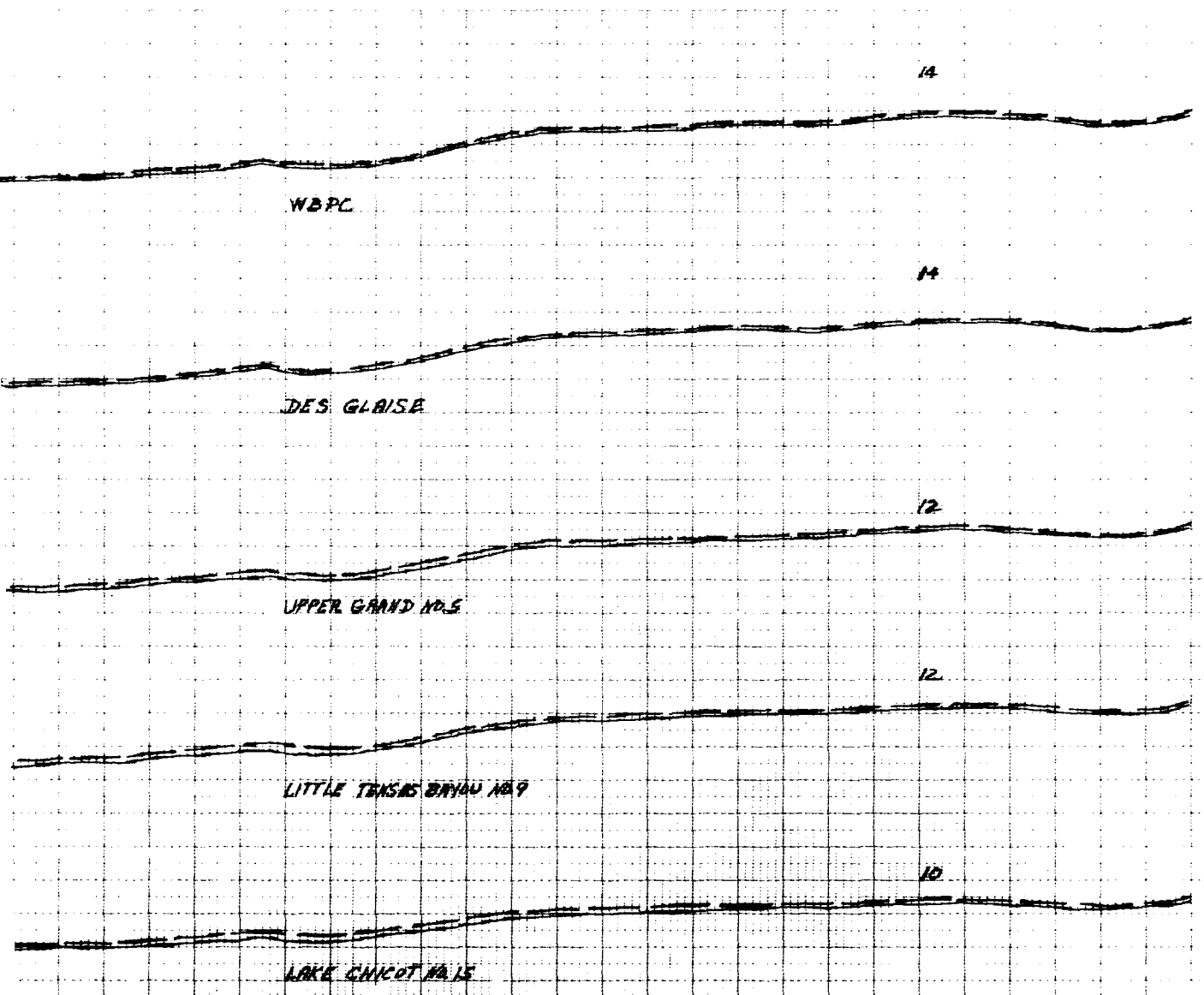
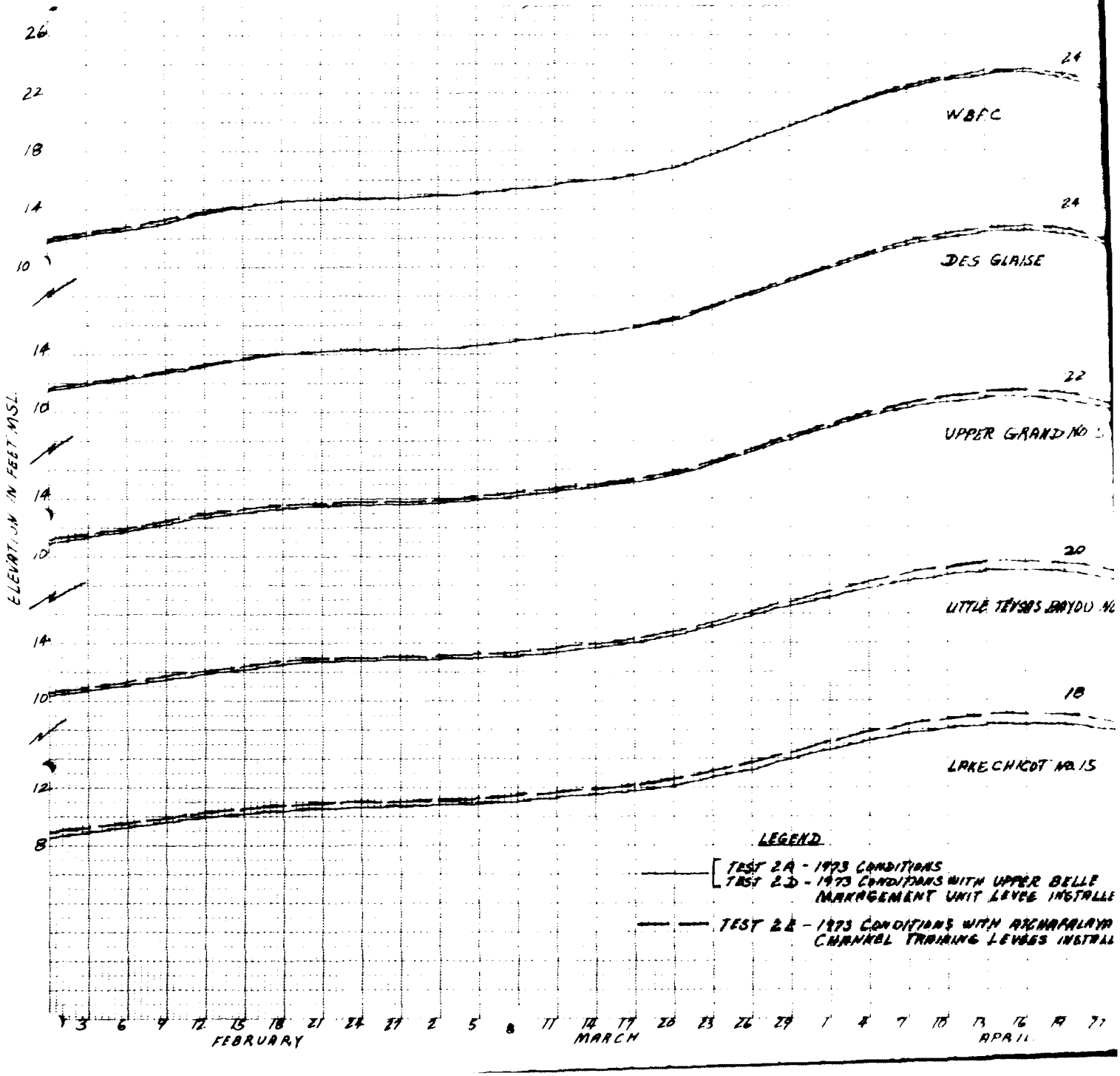
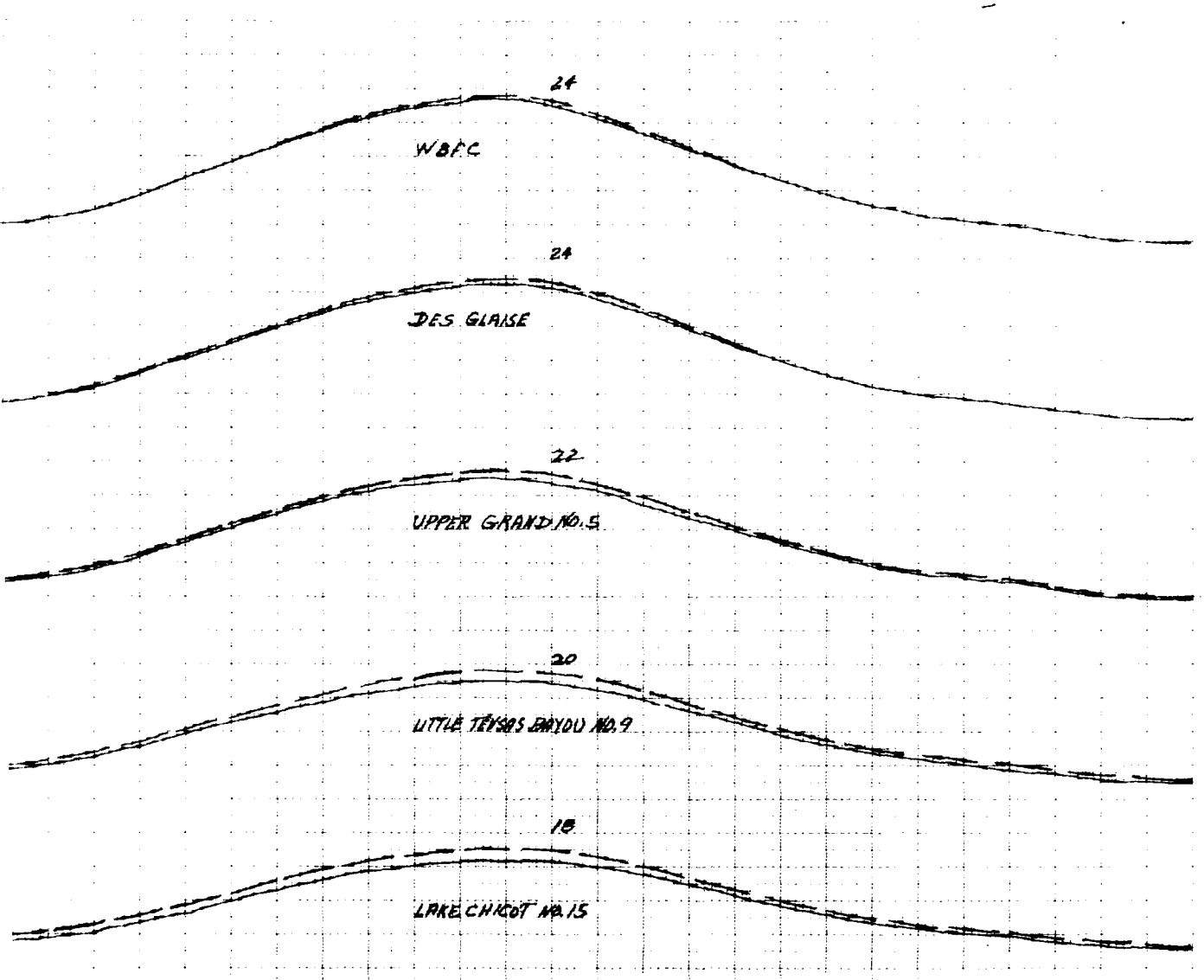

14
WBPC
14
DES GLAISE
12
UPPER GRAND NO.5
12
LITTLE TEXAS BAYOU NO.9
10
LAKE CHICOT NO.15
LEGEND
TEST 2A - 1975 CONDITIONS
TEST 2D - 1975 CONDITIONS WITH UPPER OUACHITA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS TEST 2A,D,E
AVERAGE ANNUAL FLOWS OCT.-JAN.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO.15
17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 71


ELEVATION IN FEET MSL
WBFC
DES GLAISE
UPPER GRAND NO 1
LITTLE TEXAS BAYOU NO
LAKE CHICOT NO 15
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLE
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA CHANNEL TRAINING LEVEES INSTALL
FEBRUARY
MARCH
APRIL



LEGEND

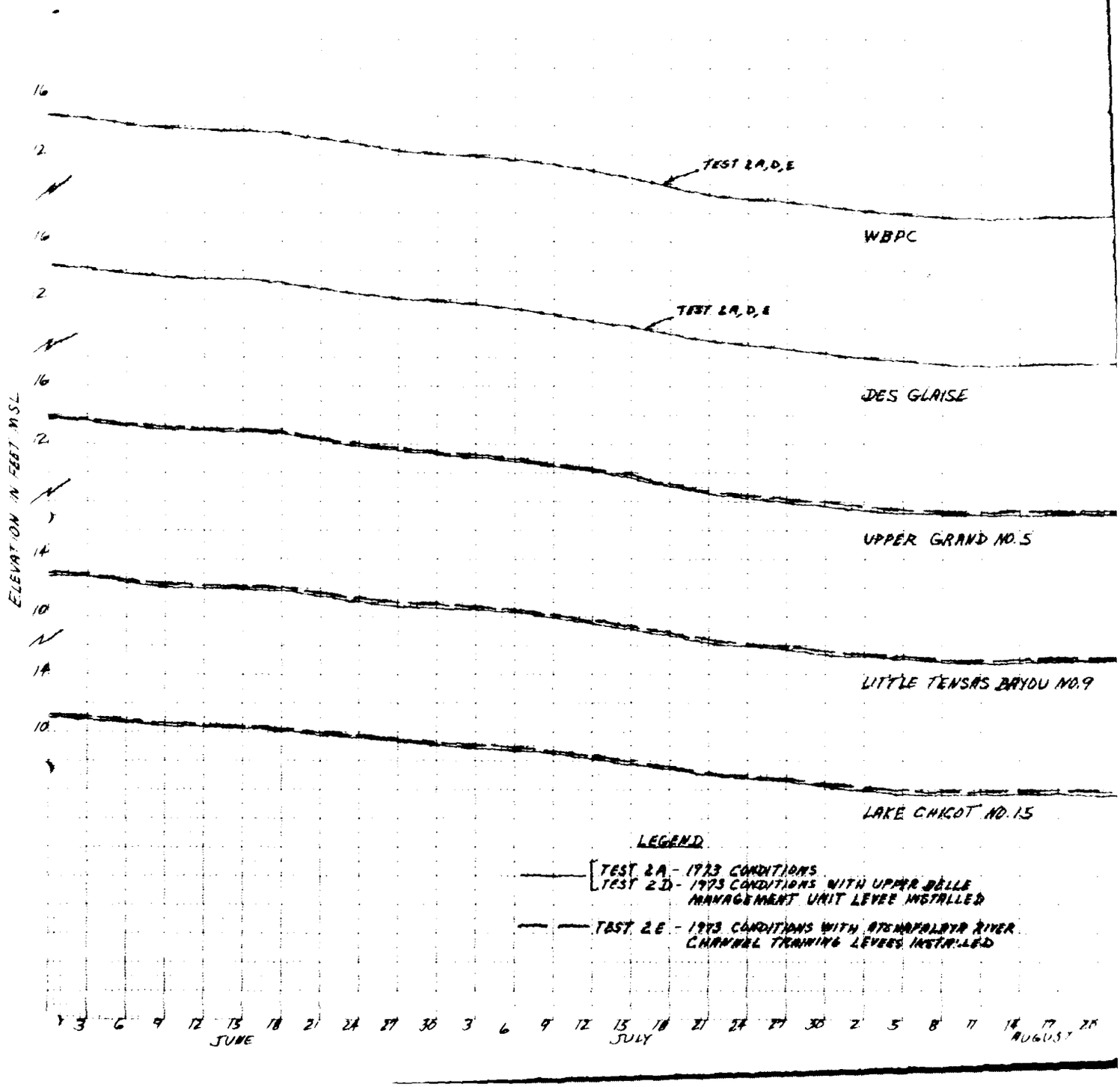
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED

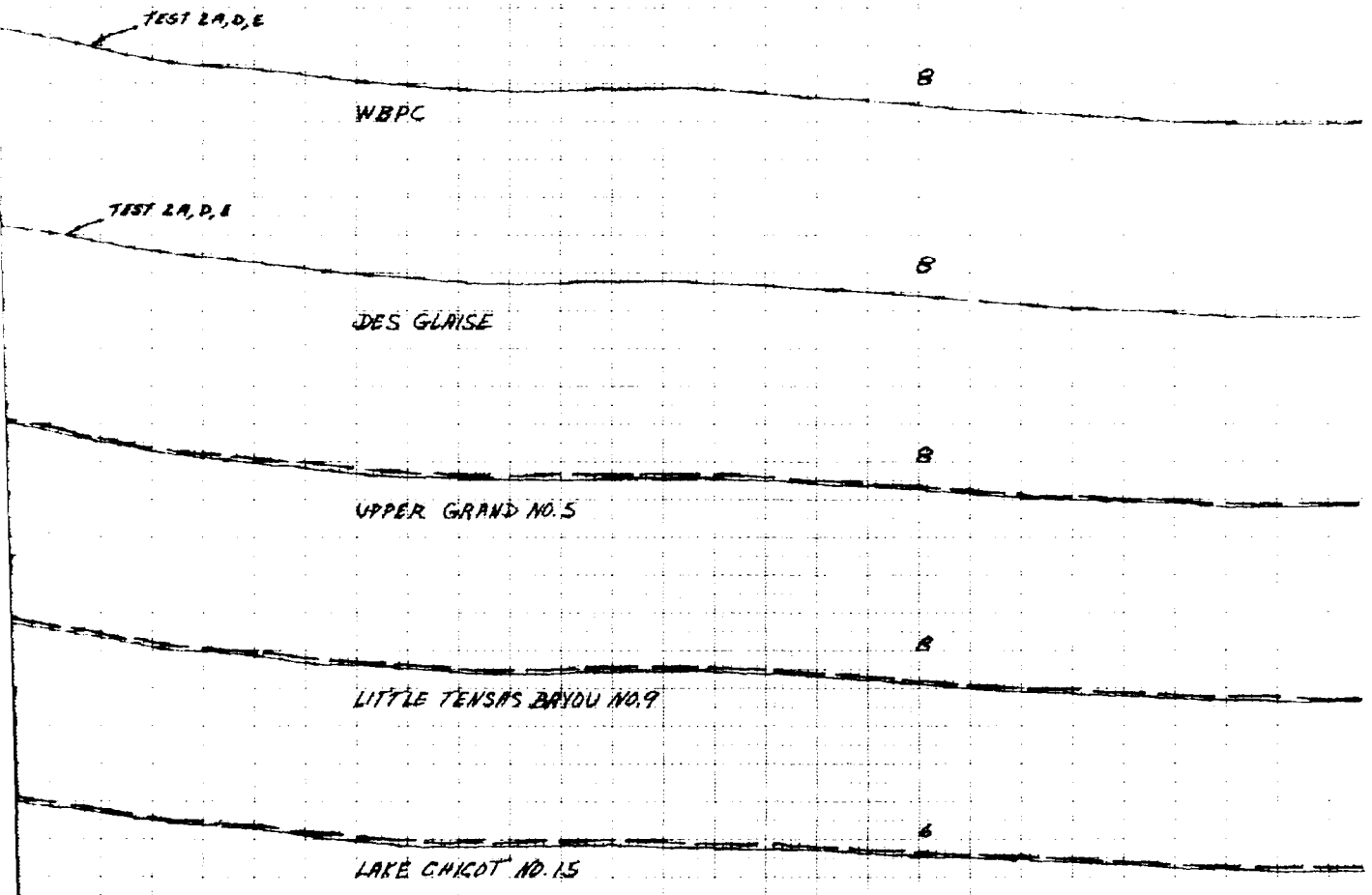
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS-TEST 2A,D,E
AVERAGE ANNUAL FLOWS-FEB.-MAY
ATCHAFALAYA BASIN- MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15

17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
CH APRIL MAY

PLATE 12


ELEVATION IN FEET MSL
16
12
16
2
16
12
14
10
14
10
TEST 2A,D,E
WBPC
TEST 2A,D,E
DES GLAISE
UPPER GRAND NO.5
LITTLE TENSAS BAYOU NO.9
LAKE CHICOT NO.15
LEGEND
TEST 2A - 1923 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER DELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
1 3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST



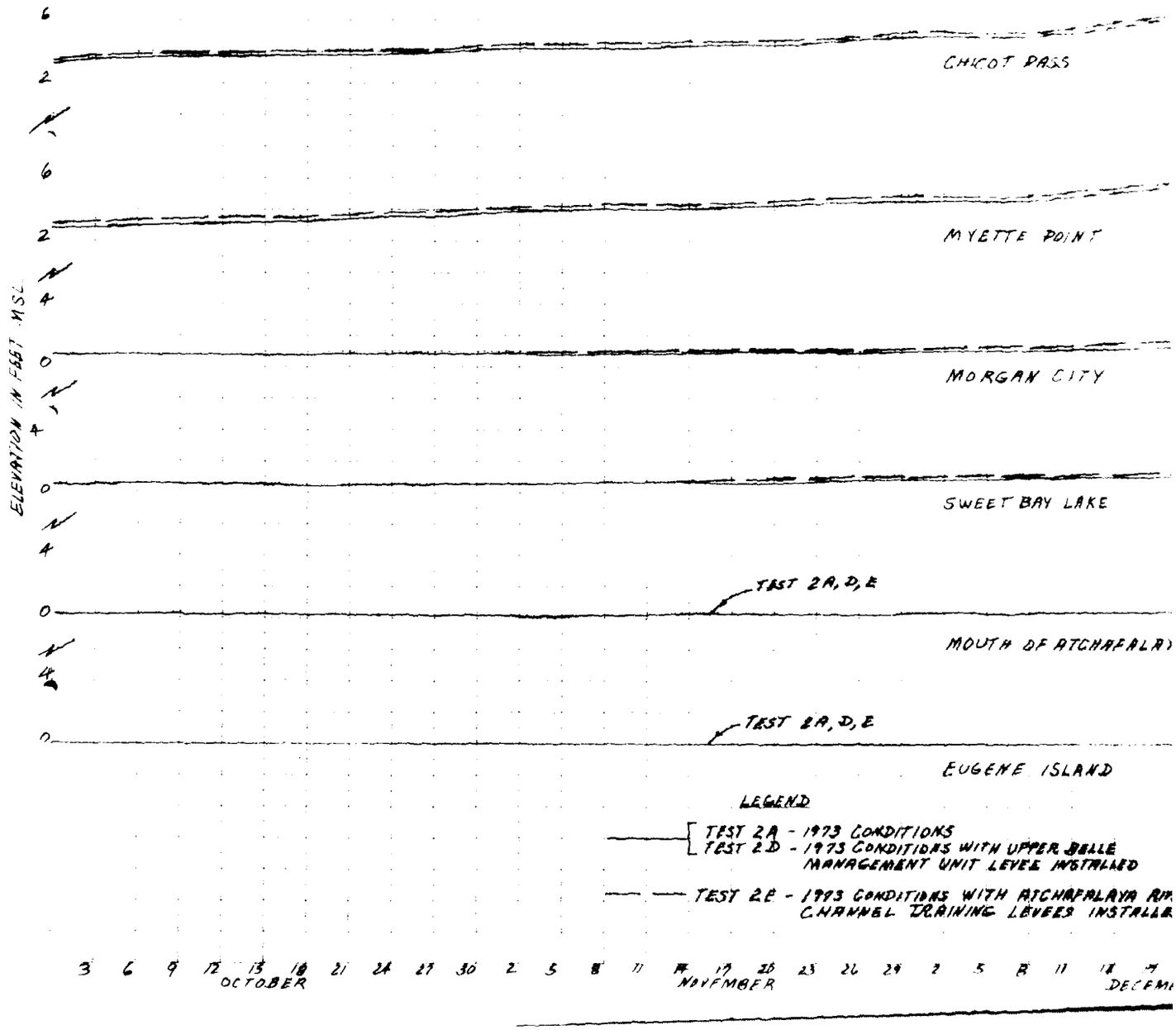
LEGEND

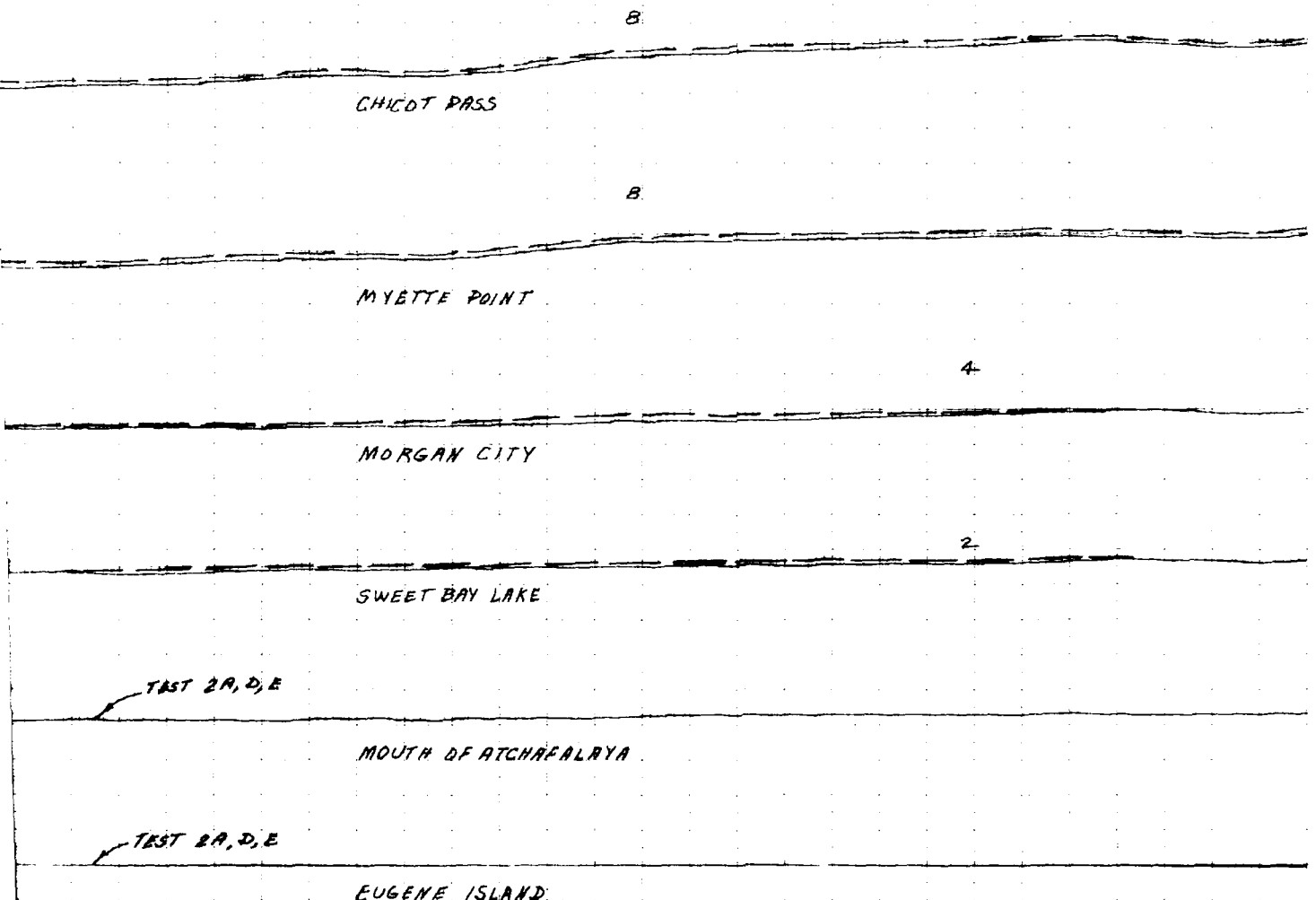
EST 2A - 1923 CONDITIONS
EST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
ST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS-TEST 2A,D,E
AVERAGE ANNUAL FLOWS - JUNE-SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC — LAKE CHICOT NO.15

15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
LY AUGUST SEPTEMBER

PLATE 13


ELEVATION IN FEET MSL
6
2
6
2
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
TEST 2A, D, E
MOUTH OF ATCHAFALAYA
TEST 2A, D, E
EUGENE ISLAND
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE
MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1993 CONDITIONS WITH ATCHAFALAYA RIV
CHANNEL DRAINING LEVEES INSTALLE
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMI



LEGEND

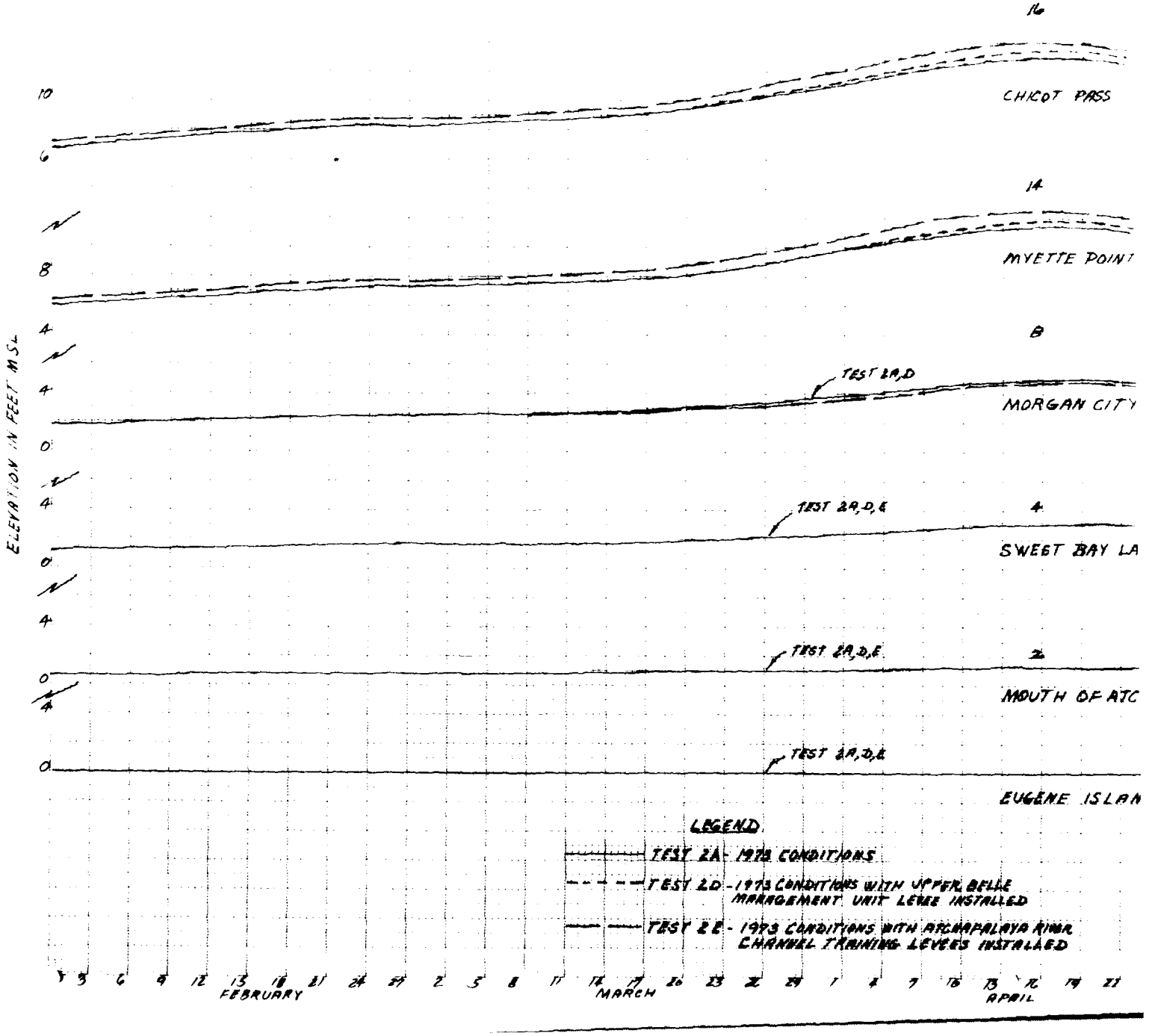
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED

TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2A, D, E
AVERAGE ANNUAL FLOWS - OCT.-JAN.
ATCHAFALAYA BASIN-MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND

17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER DECEMBER JANUARY

PLATE 74


ELEVATION IN FEET MSL
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LA
MOUTH OF ATC
EUGENE ISLAN
TEST 2A,D
TEST 2A,D,E
TEST 2A,D,E
TEST 2A,D,E
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
FEBRUARY
MARCH
APRIL

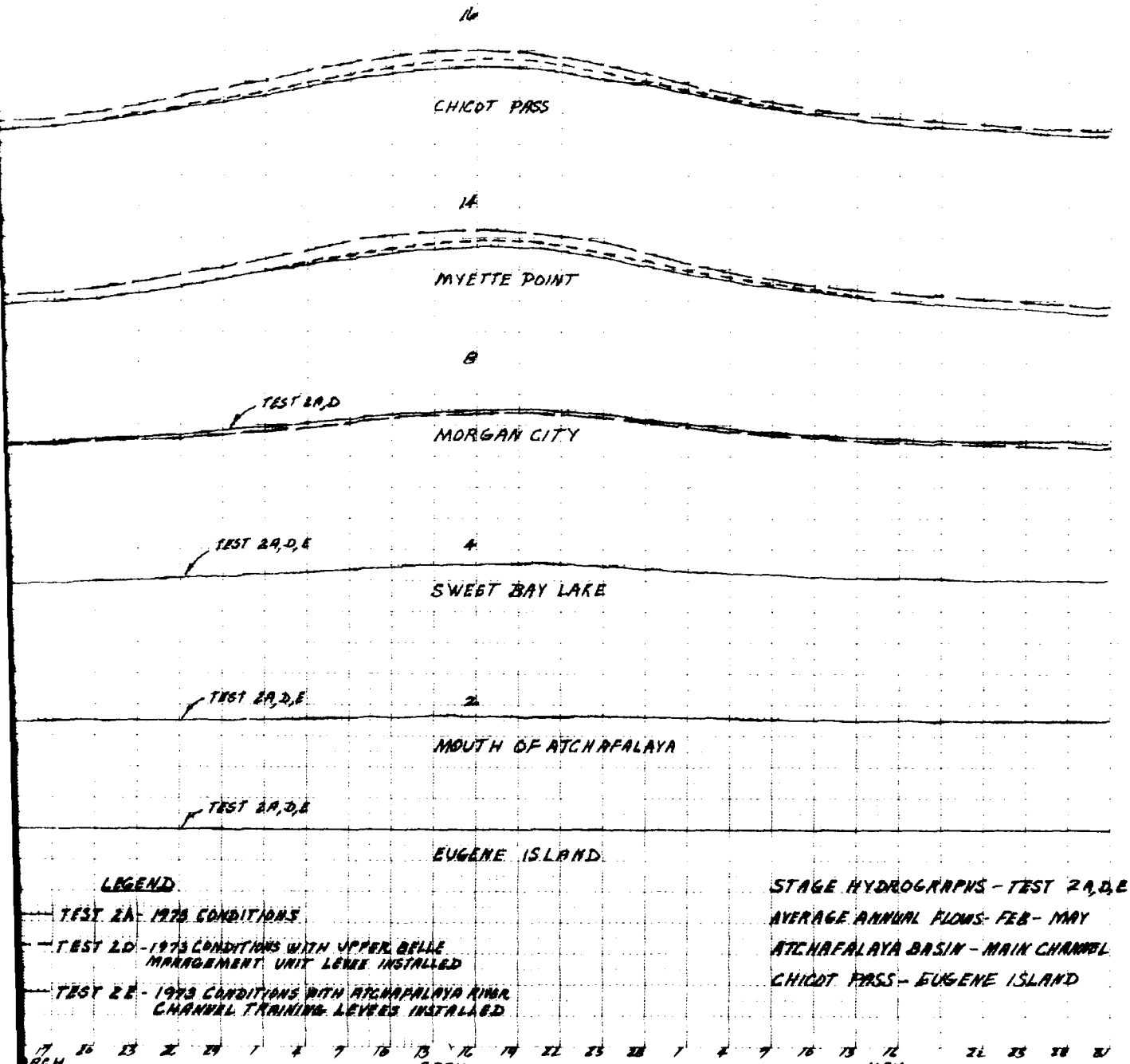
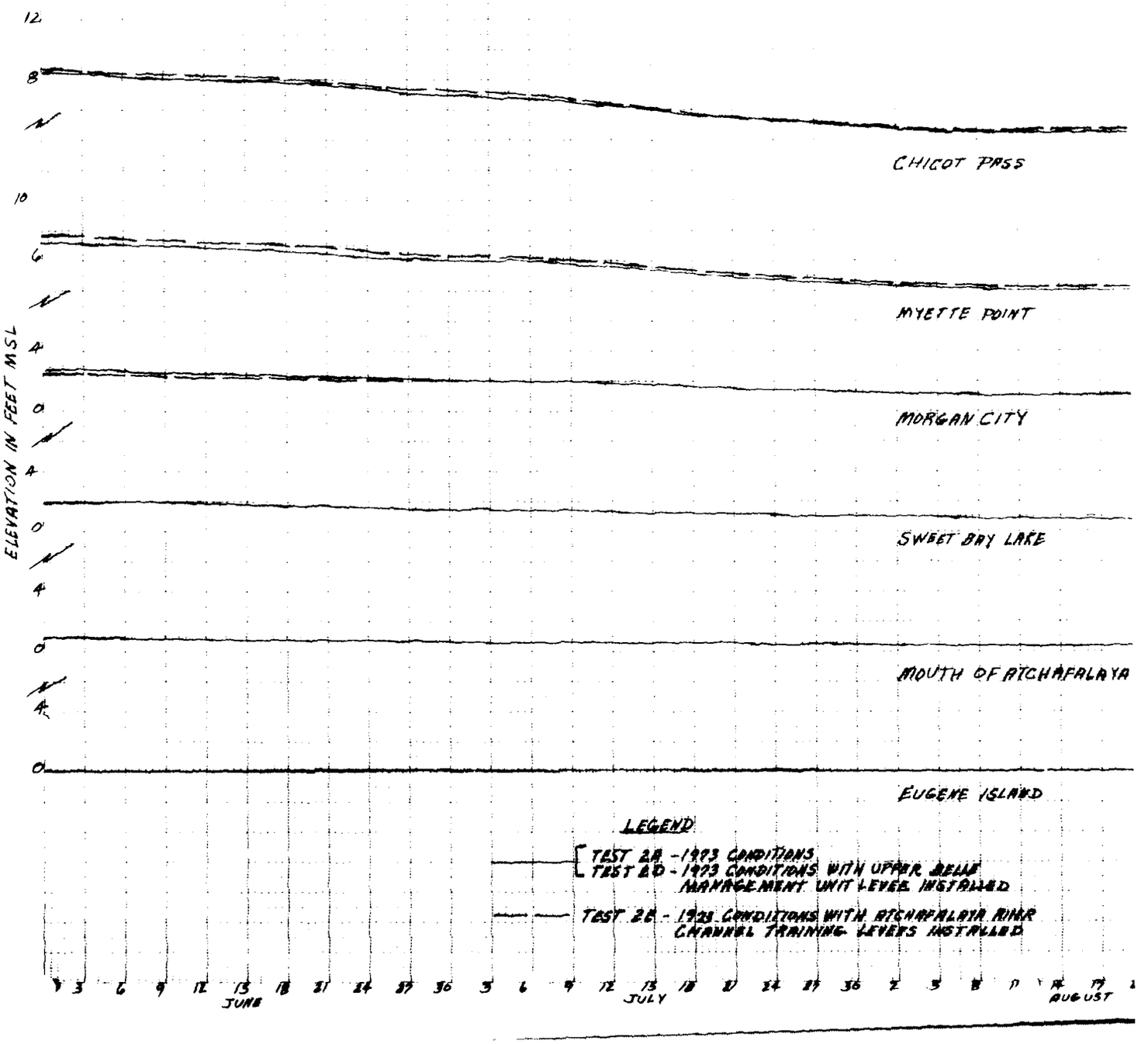

16
CHICOT PASS
14
MYETTE POINT
8
TEST 2A,D
MORGAN CITY
TEST 2A,D,E
4
SWEET BAY LAKE
TEST 2A,D,E
2
MOUTH OF ATCHAFALAYA
TEST 2A,D,E
EUGENE ISLAND
LEGEND
TEST 2A - 1975 CONDITIONS
TEST 2D - 1975 CONDITIONS WITH UPPER BELLE MARAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
17 10 13 22 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
MARCH
APRIL
MAY

PLATE 75


ELEVATION IN FEET MSL
12
8
4
0
4
0
4
0
4
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 2A - 1993 CONDITIONS
TEST 2D - 1993 CONDITIONS WITH UPPER DELTA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1993 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
JUNE
JULY
AUGUST

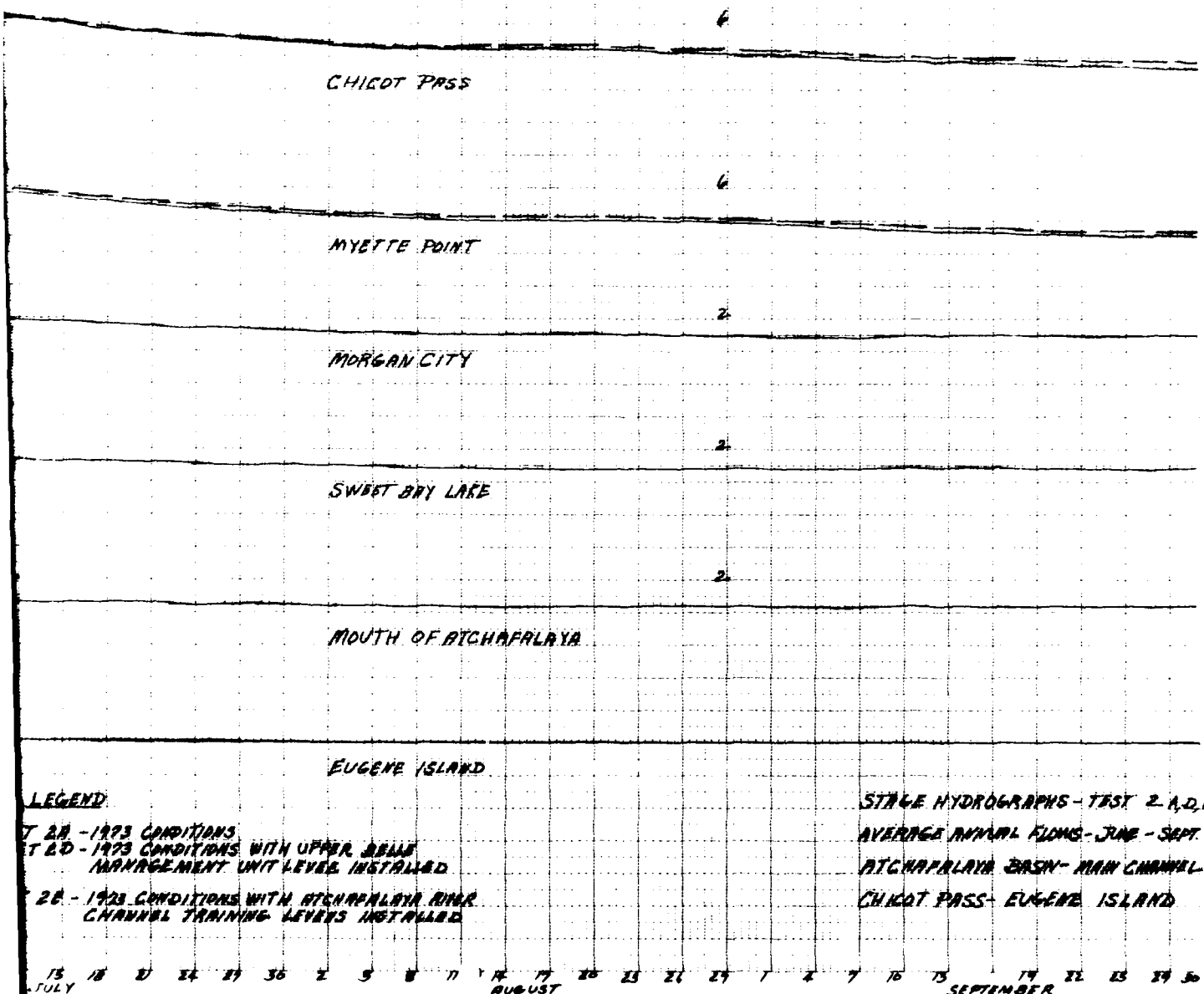
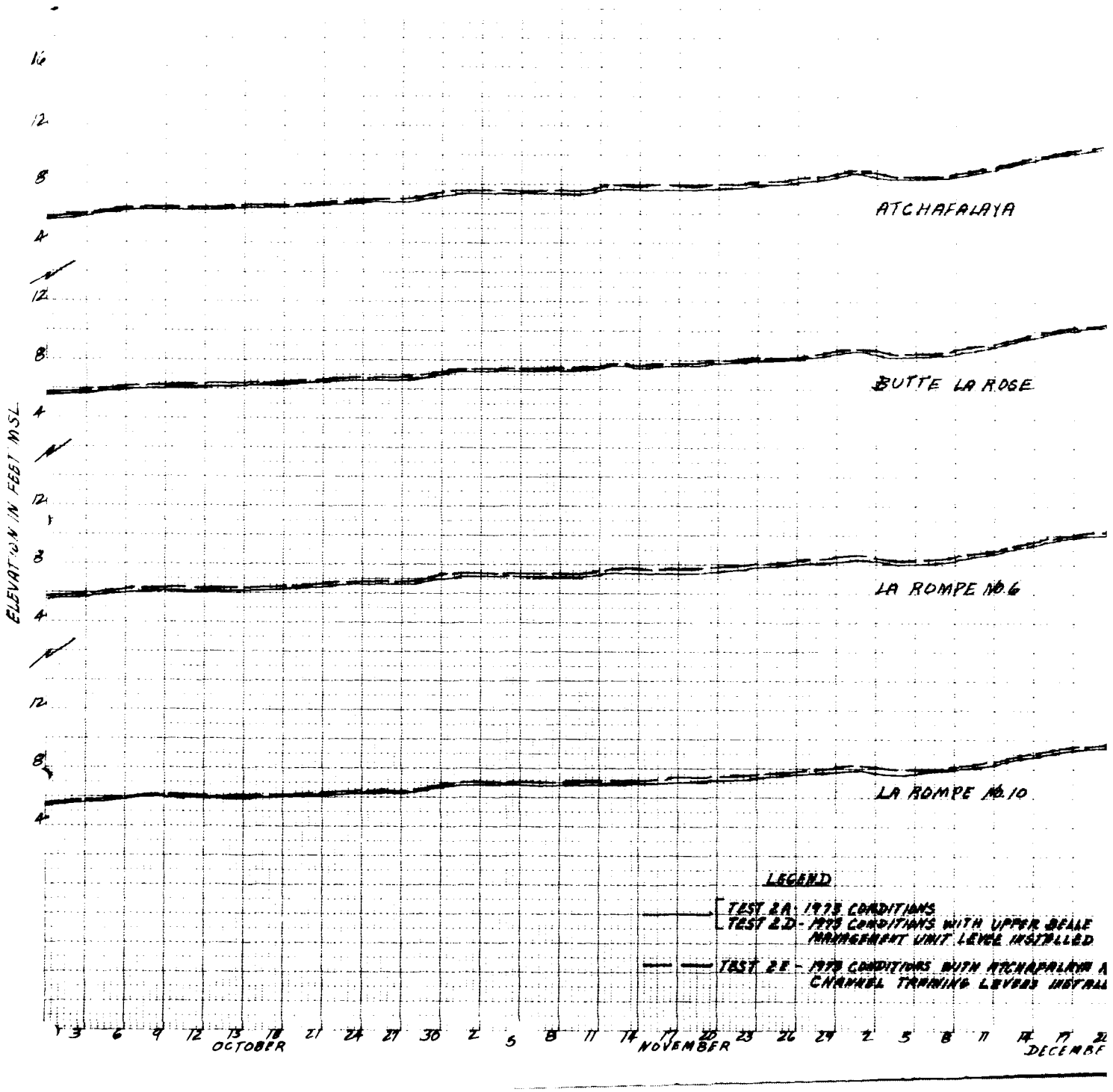
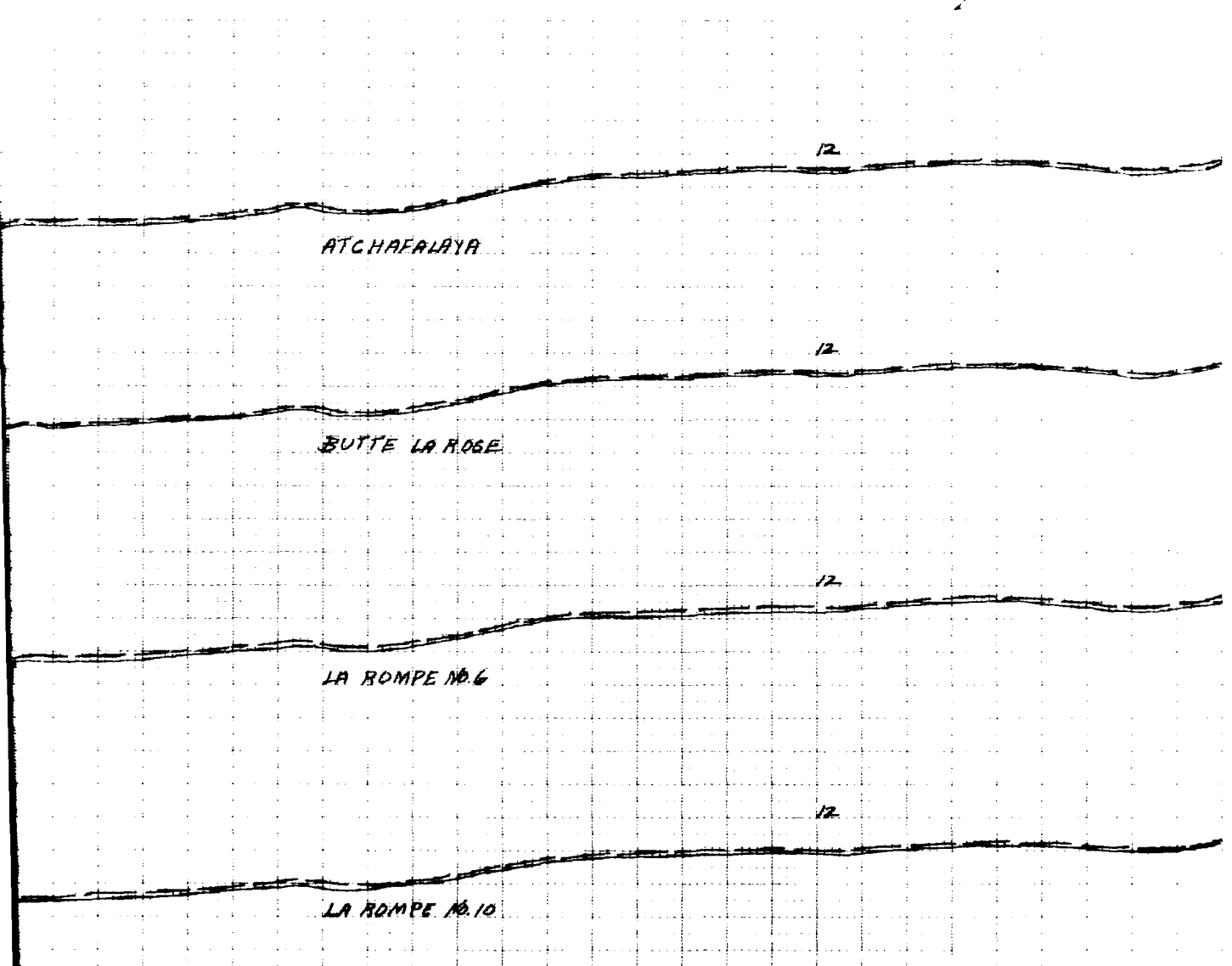

6
CHICOT PASS
6
MYETTE POINT
2
MORGAN CITY
2
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
T 2B - 1973 CONDITIONS
T 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2 A,D,E
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 76


ELEVATION IN FEET MSL
16
12
8
4
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
LEGEND
TEST 2A: 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE
MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA
CHANNEL TRAINING LEVEES INSTALL
1 3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17
DECEMBER



LEGEND

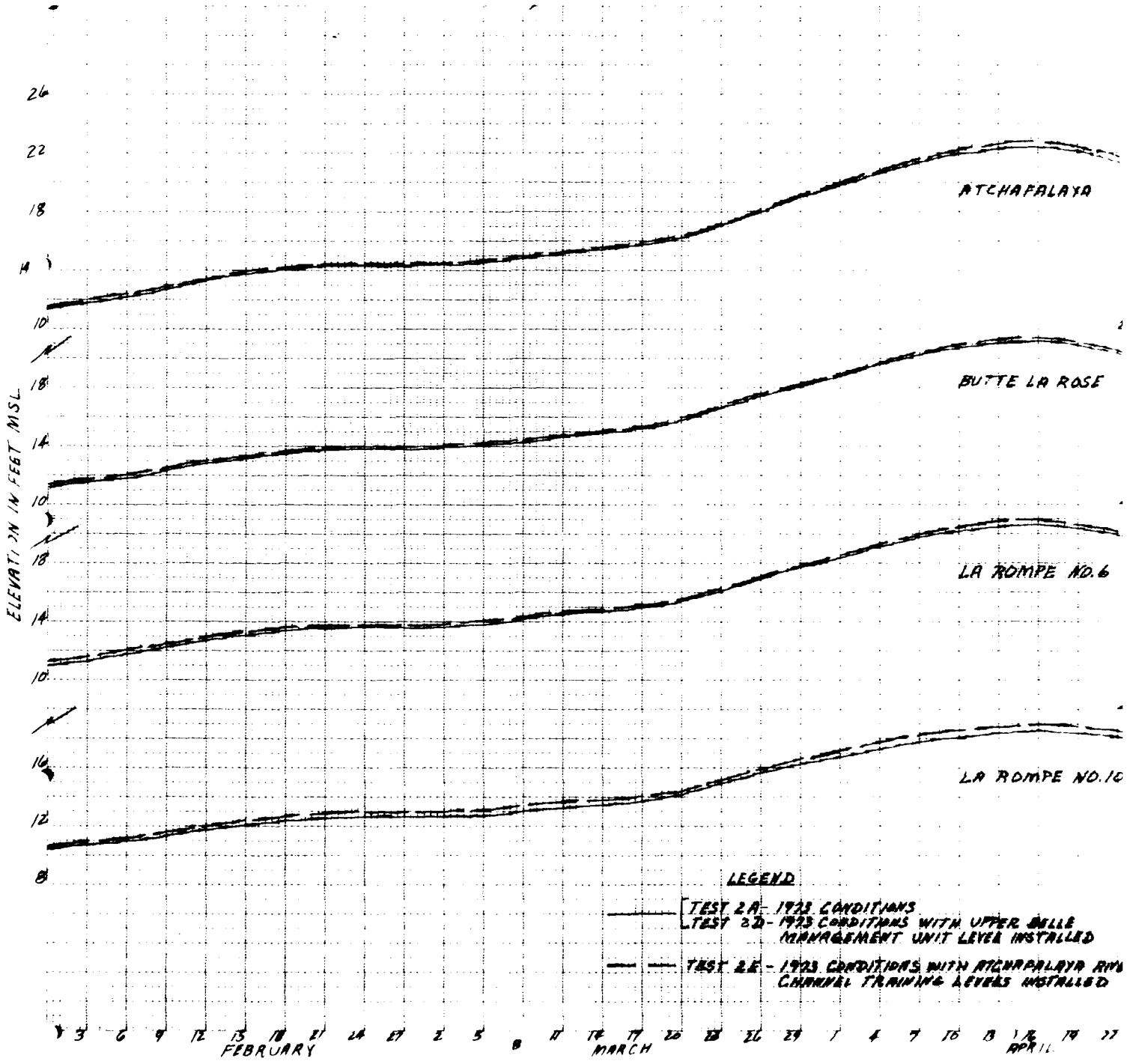
TEST 2A: 1975 CONDITIONS
TEST 2D: 1975 CONDITIONS WITH UPPER BASIN MANAGEMENT UNIT LEVEE INSTALLED

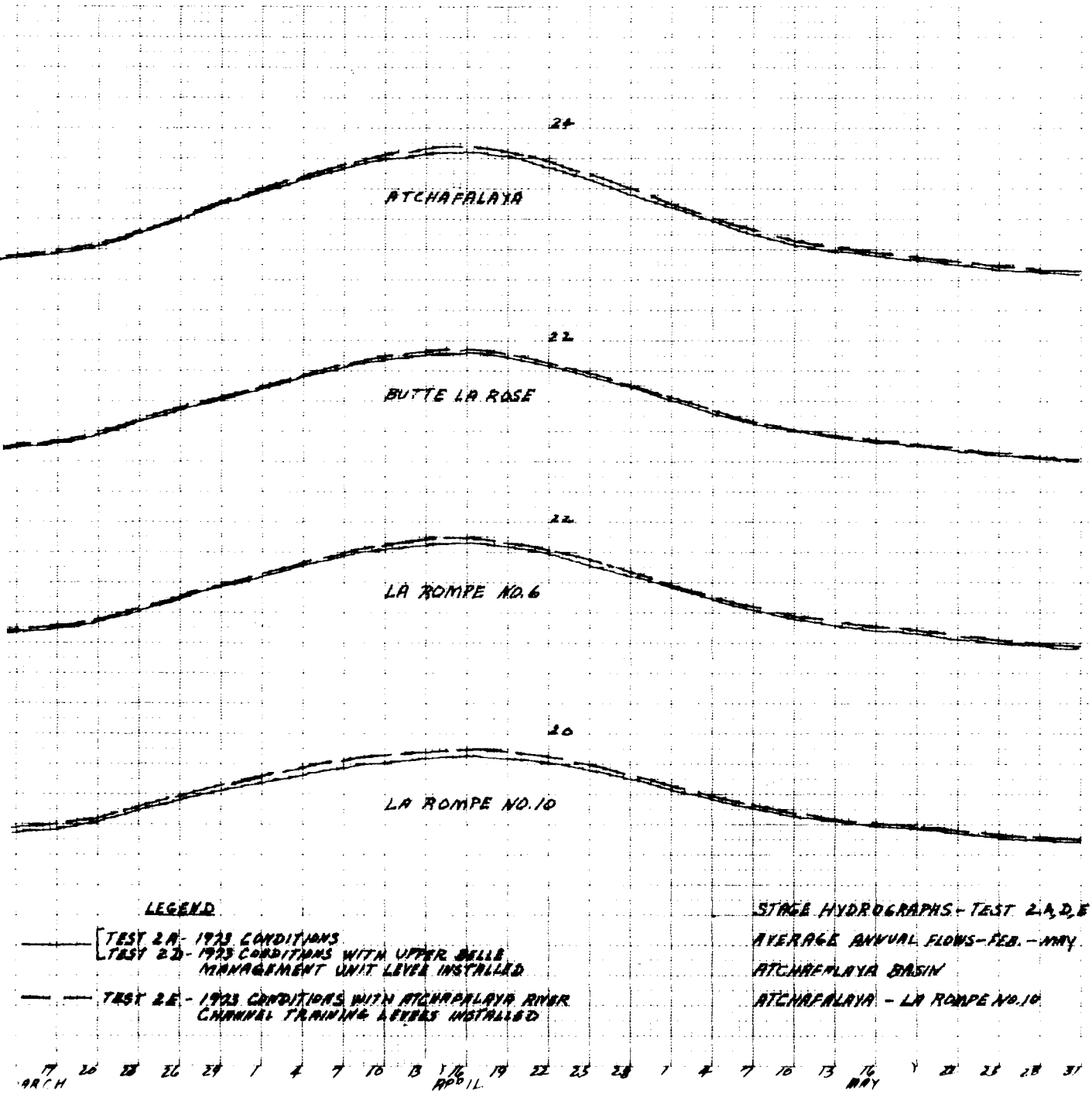
TEST 2E: 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - OCT-JAN
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10

14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER DECEMBER JANUARY

PLATE 77


ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
ELEVATION IN FEET MSL
FEBRUARY
MARCH
APRIL
LEGEND
TEST 2A - 1923 CONDITIONS
TEST 2D - 1923 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1923 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED



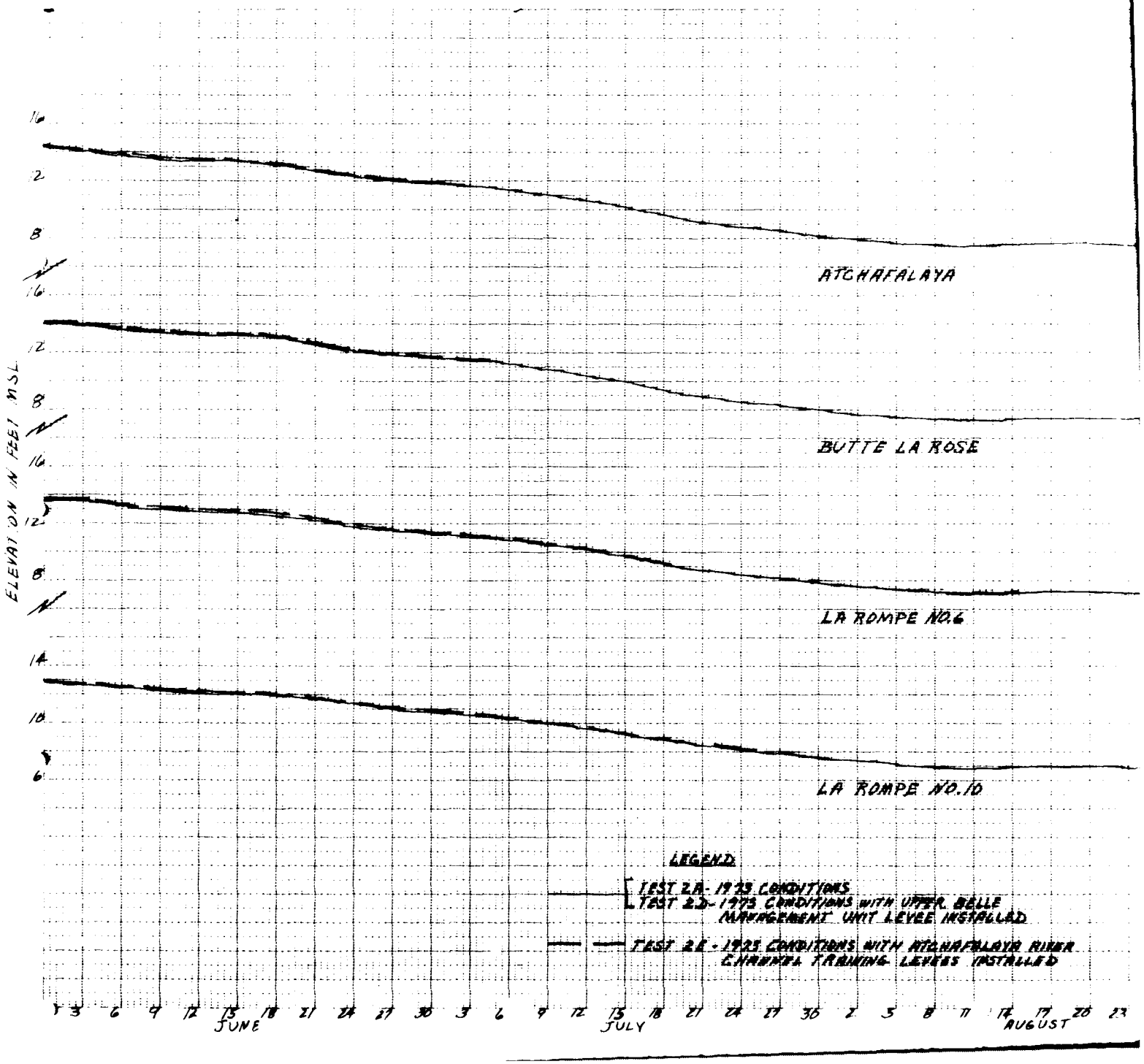
STAGE HYDROGRAPHS - TEST 2A, D, E

AVERAGE ANNUAL FLOWS - FEB. - MAY

ATCHAFALAYA BASIN

ATCHAFALAYA - LA ROMPE NO. 10

PLATE 28


ELEVATION IN FEET MSL
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO.6
LA ROMPE NO.10
LEGEND
TEST 2A - 1925 CONDITIONS
TEST 2D - 1975 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1925 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
JUNE
JULY
AUGUST

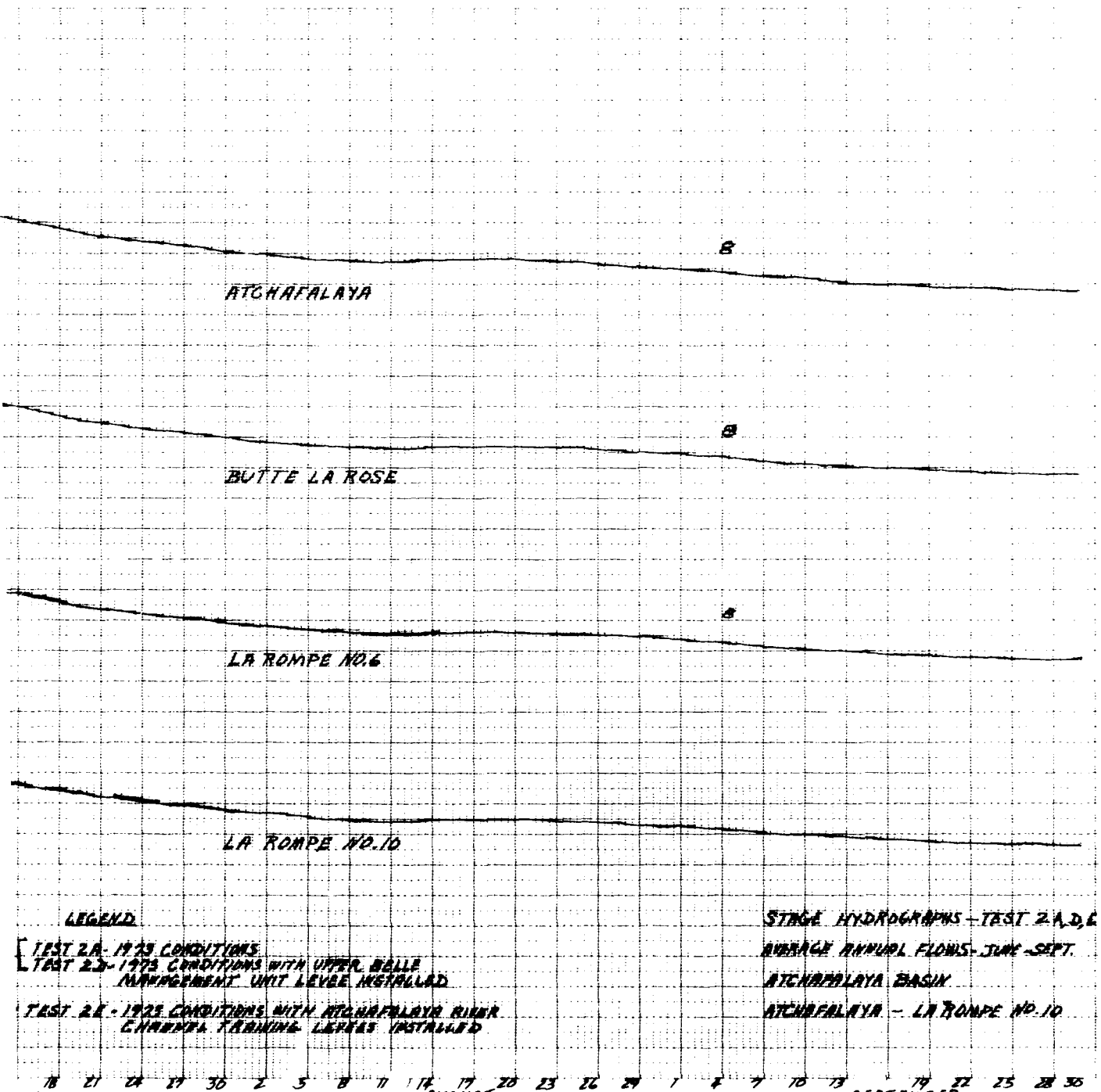
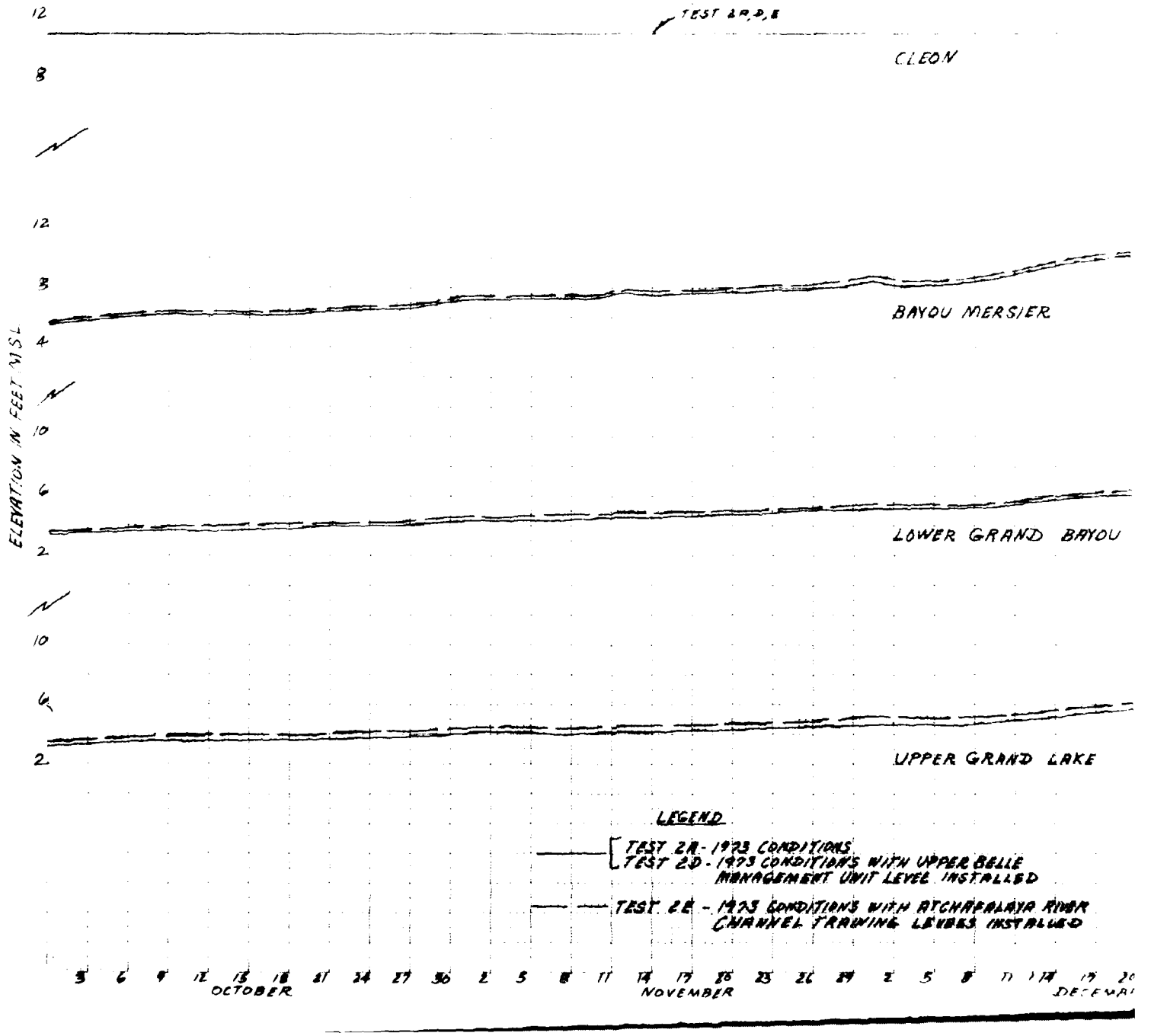
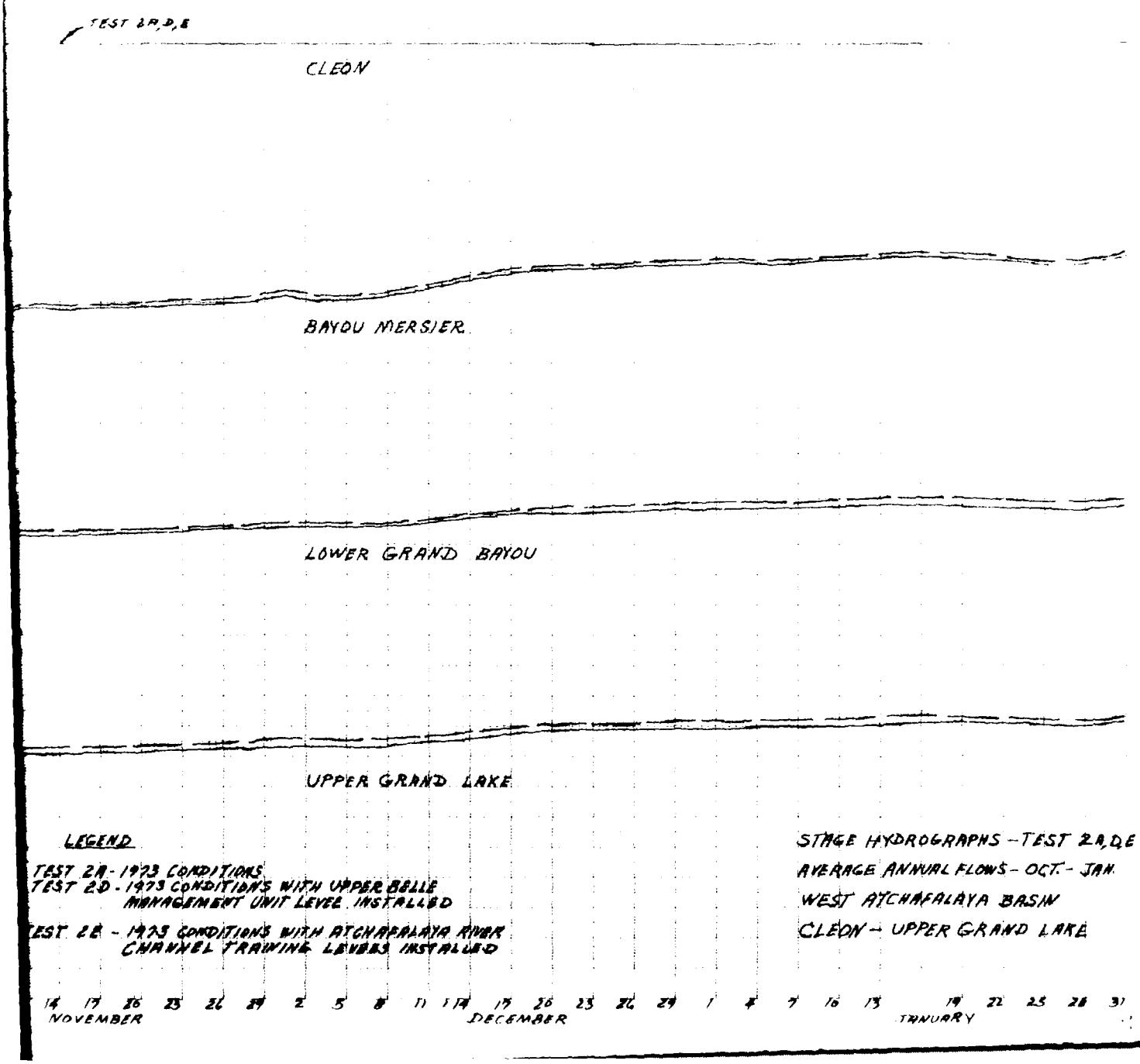
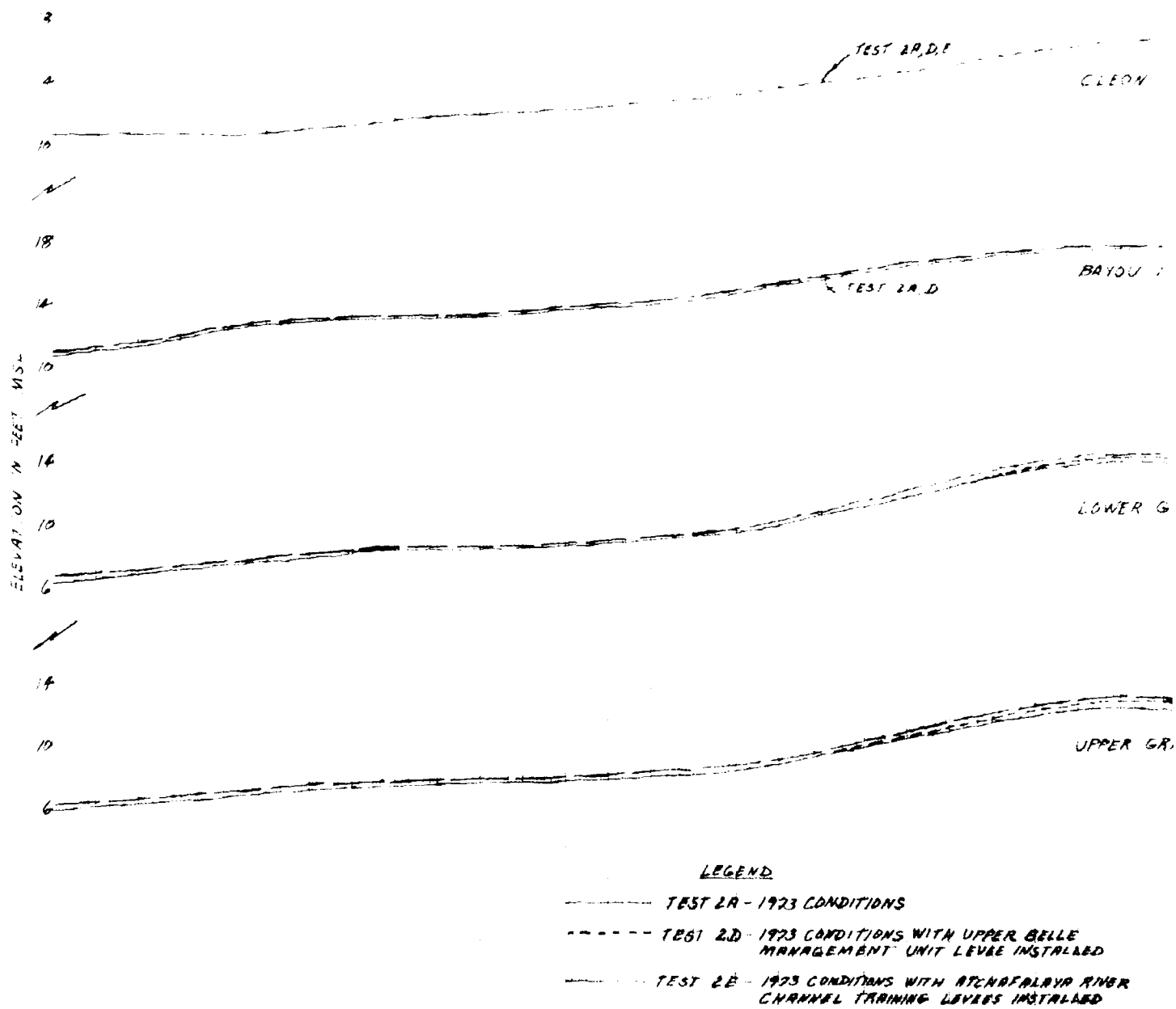
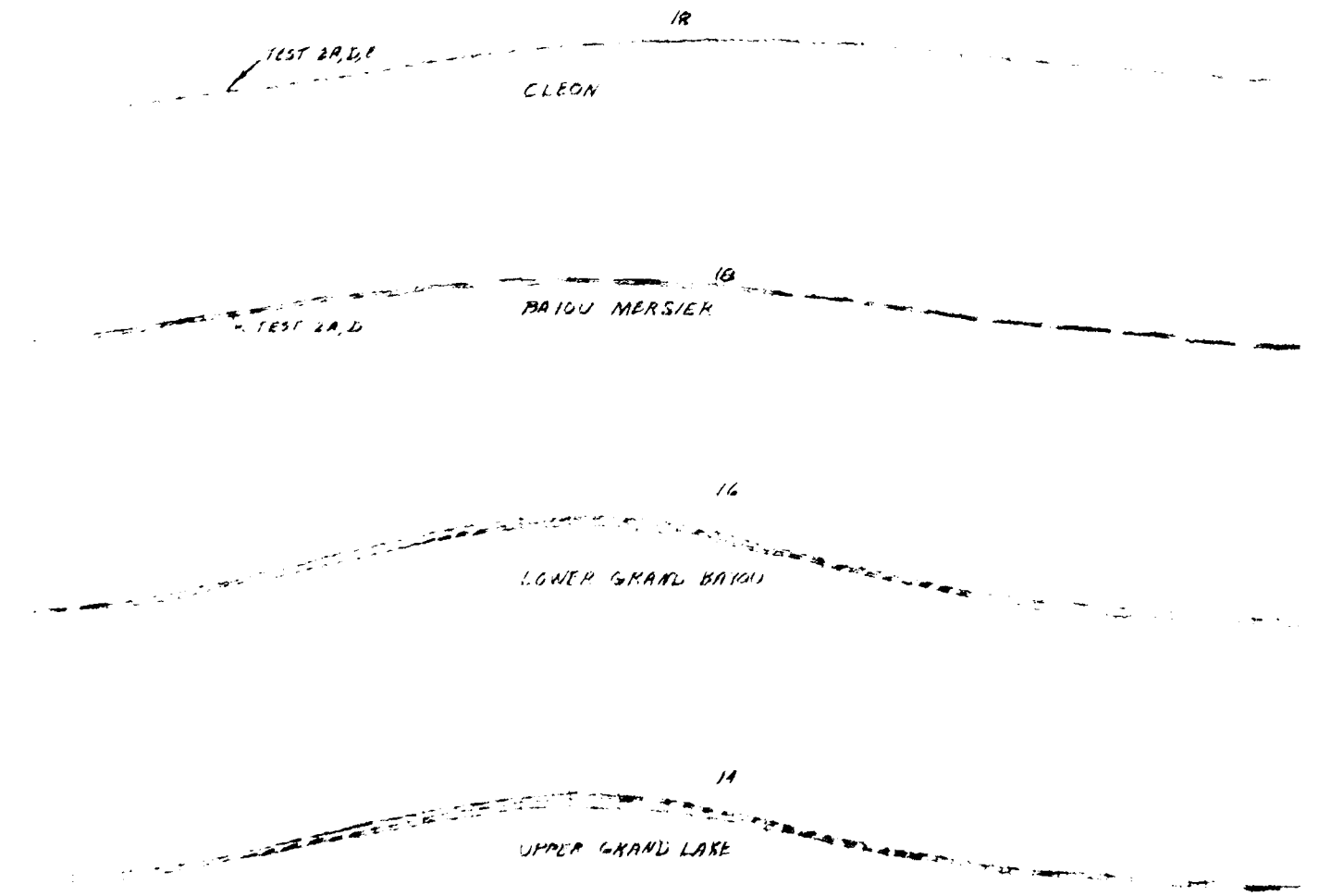

B
ATCHAFALAYA
B
BUTTE LA ROSE
A
LA ROMPE NO.6
LA ROMPE NO.10
LEGEND
TEST 2A - 1929 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1929 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - JULY - SEPT.
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10
18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
AUGUST
SEPTEMBER

PLATE 79


TEST 2A,D,E
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
ELEVATION IN FEET MSL
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
OCTOBER
NOVEMBER


TEST 2A, D, E
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - OCT. - JAN.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY


TEST 2A,D,E
CLEON
TEST 2A,D
BAYOU
LOWER G
UPPER GR
ELEVATION IN FEET MSL
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
FEBRUARY
MARCH
APRIL



LEGEND

TEST 2A 1973 CONDITIONS

TEST 2D 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED

TEST 2E 1973 CONDITIONS WITH ATCHAFALAYA RIVER NAVIGATION CHANNEL TRAINING LEVEES INSTALLED

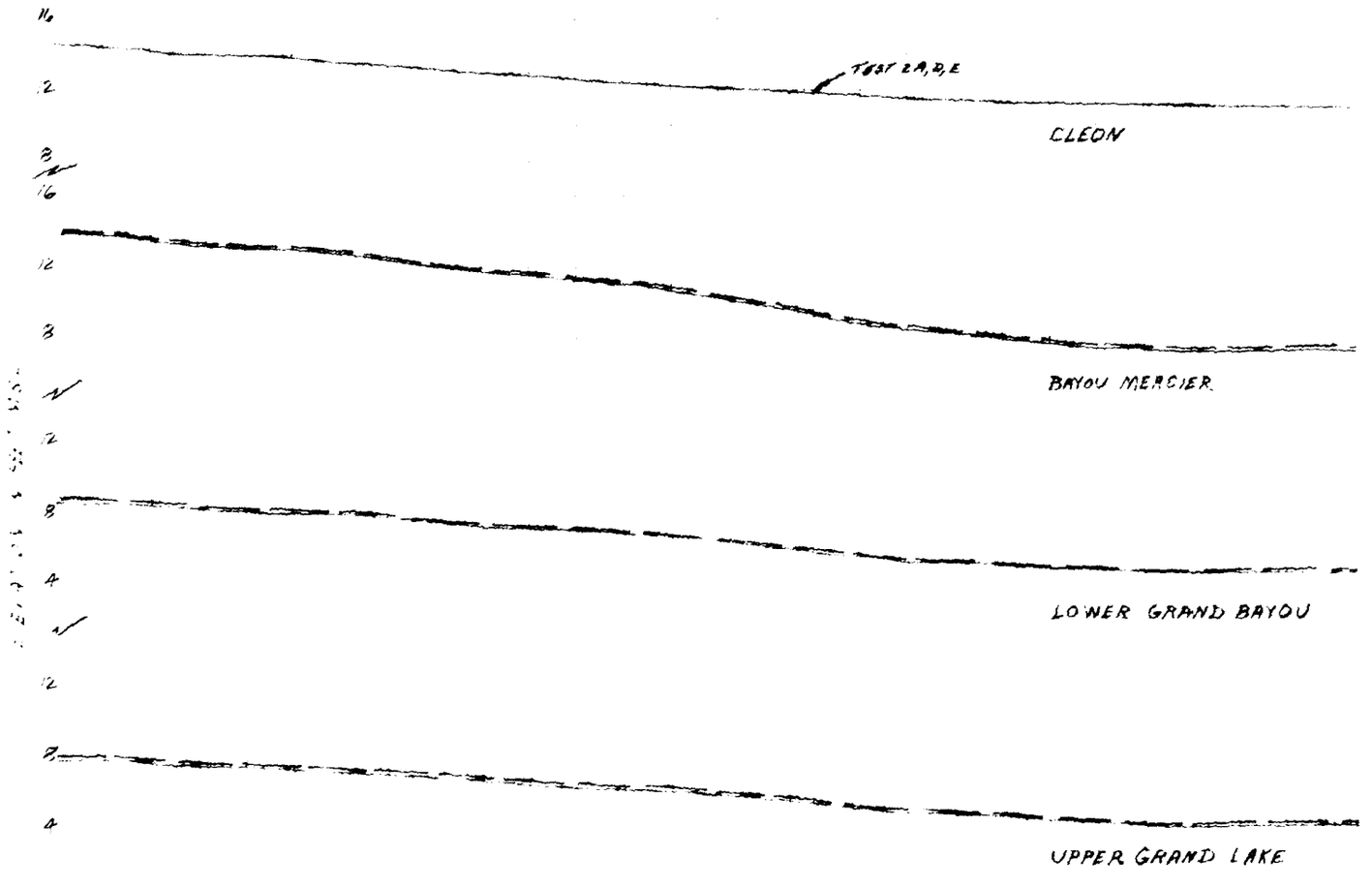
STAGE HYDROGRAPHS TEST 2A, D, E

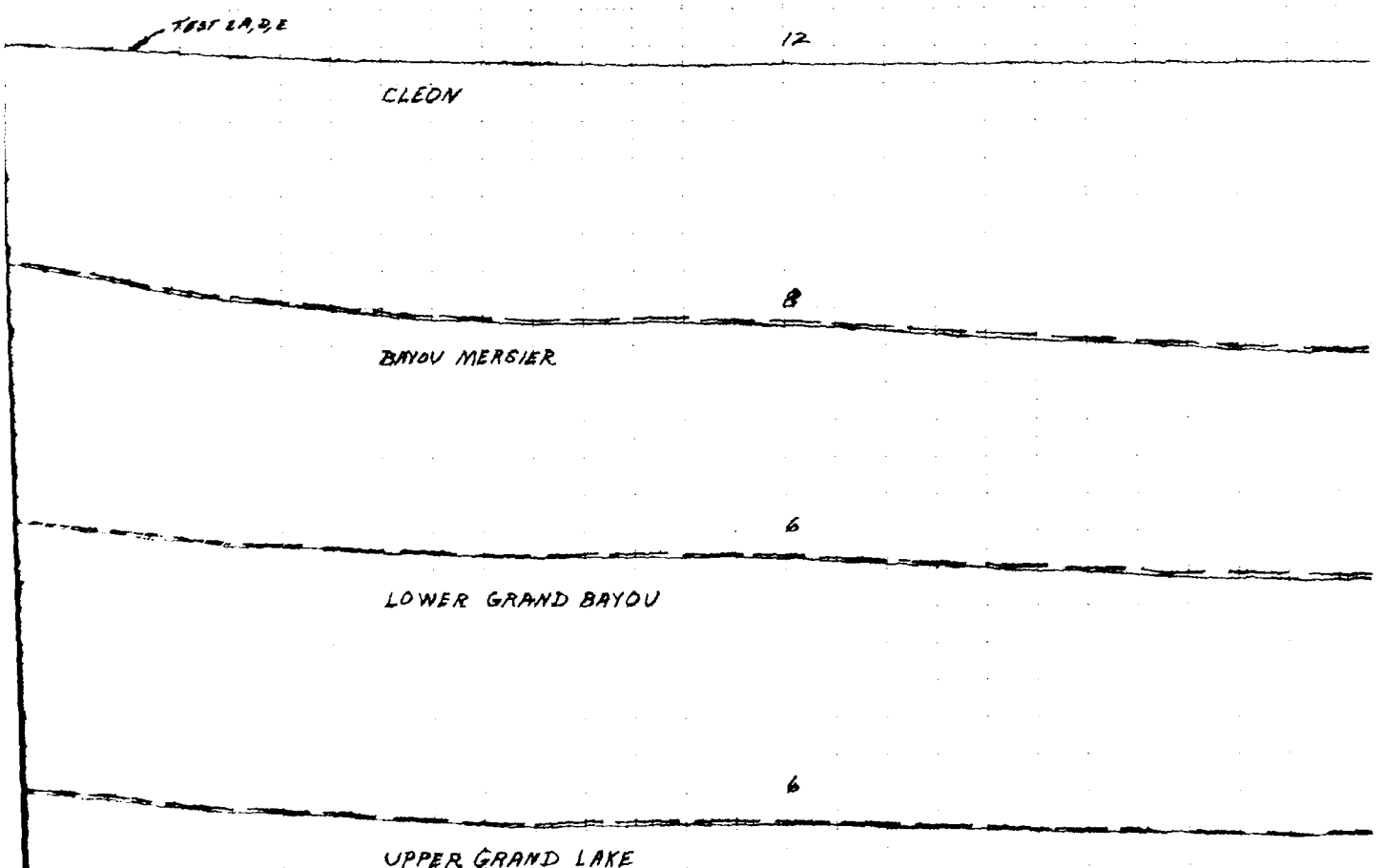
AVERAGE ANNUAL FLOWS - FEB. MAY

WEST ATCHAFALAYA BASIN

CLEON - UPPER GRAND LAKE

APRIL MAY


TEST 2A, D, E
CLEON
BAYOU MERCIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 2A 1973 CONDITIONS
TEST 2D 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
JUNE
JULY
AUGUST



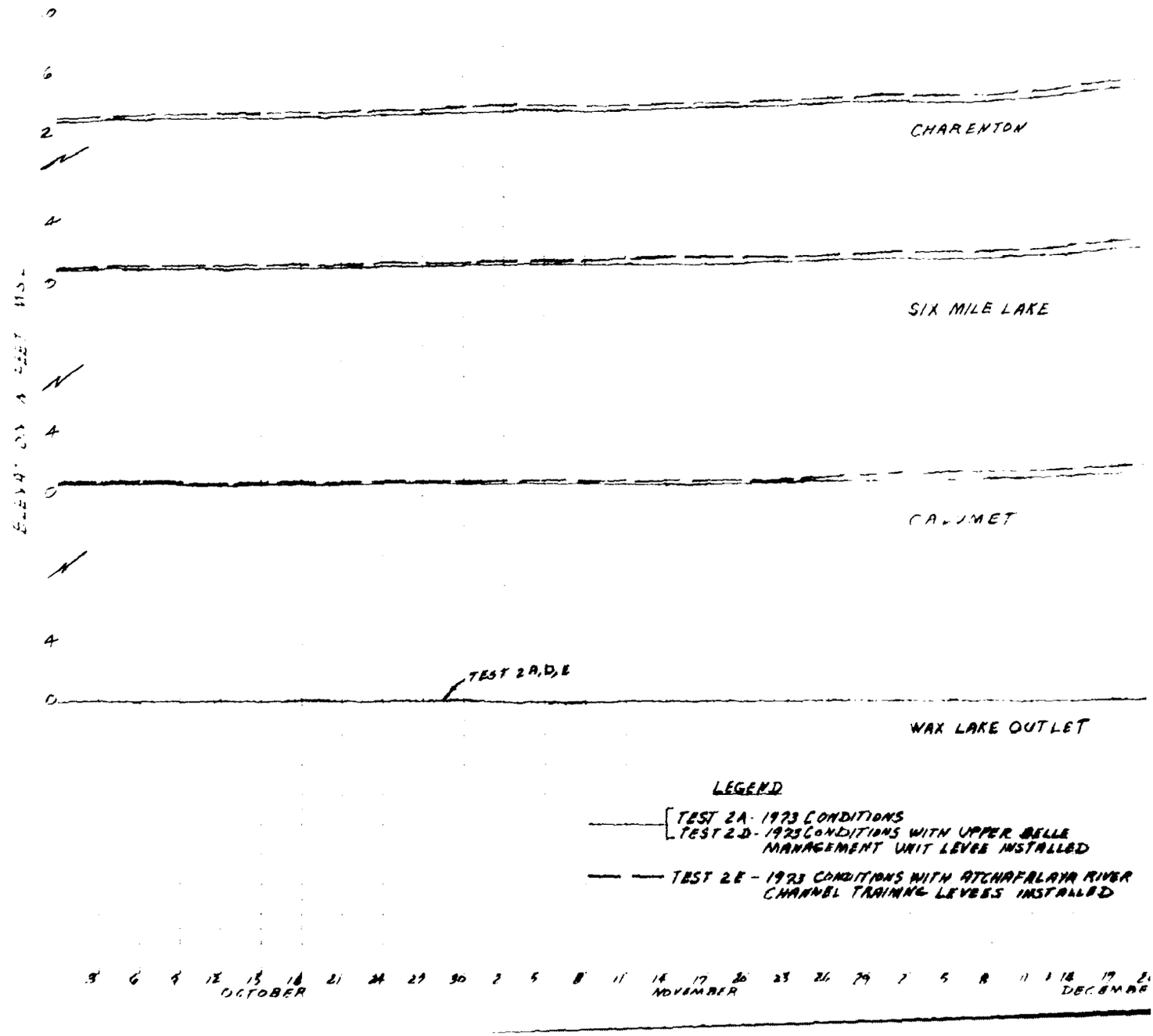
LEGEND

TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2A, D, E
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

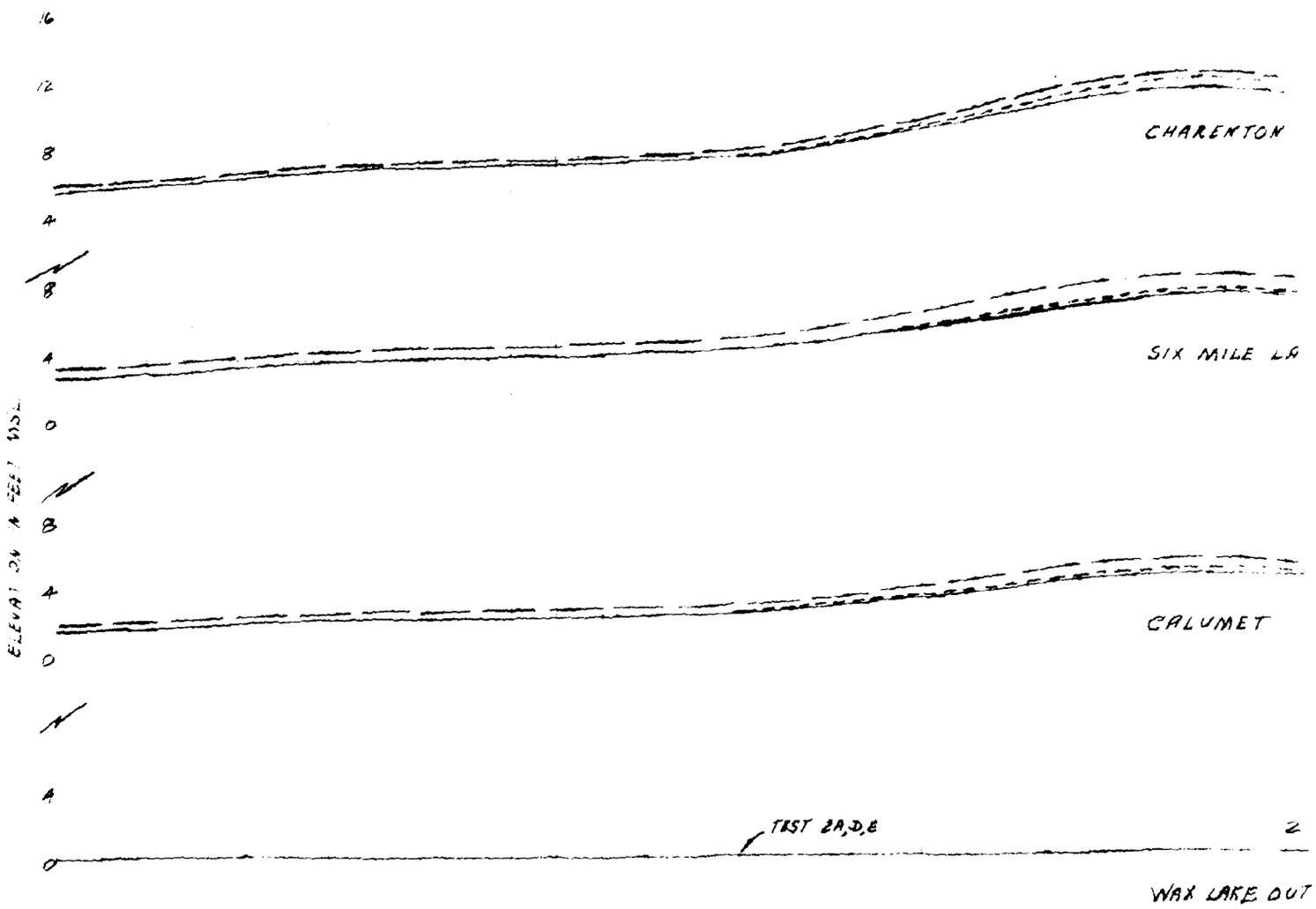
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
JULY AUGUST SEPTEMBER

MAY 82


CHARENTON
SIX MILE LAKE
CALUMET
TEST 2A,D,E
WAX LAKE OUTLET
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
OCTOBER
NOVEMBER
DECEMBER

8
CHARENTON
4
SIX MILE LAKE
4
CALUMET
2
WAX LAKE OUTLET
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - OCT. - JAN.
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
16 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 83

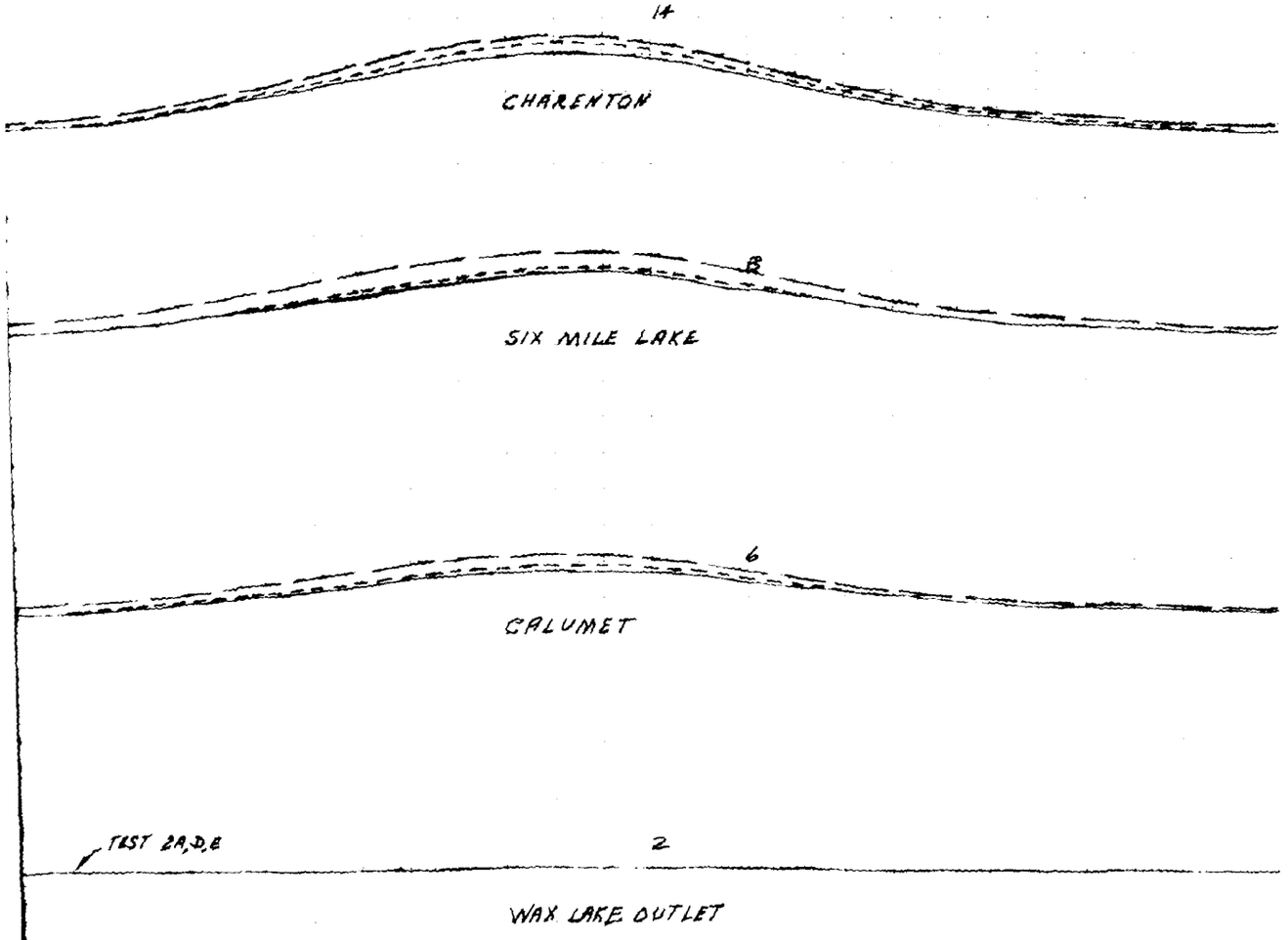


LEGEND

——— TEST 2A - 1973 CONDITIONS

- - - - - - TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED

—— —— TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED



END

- 1973 CONDITIONS
- -1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
- -1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2.A,D,E

AVERAGE ANNUAL FLOWS - FEB - MAY

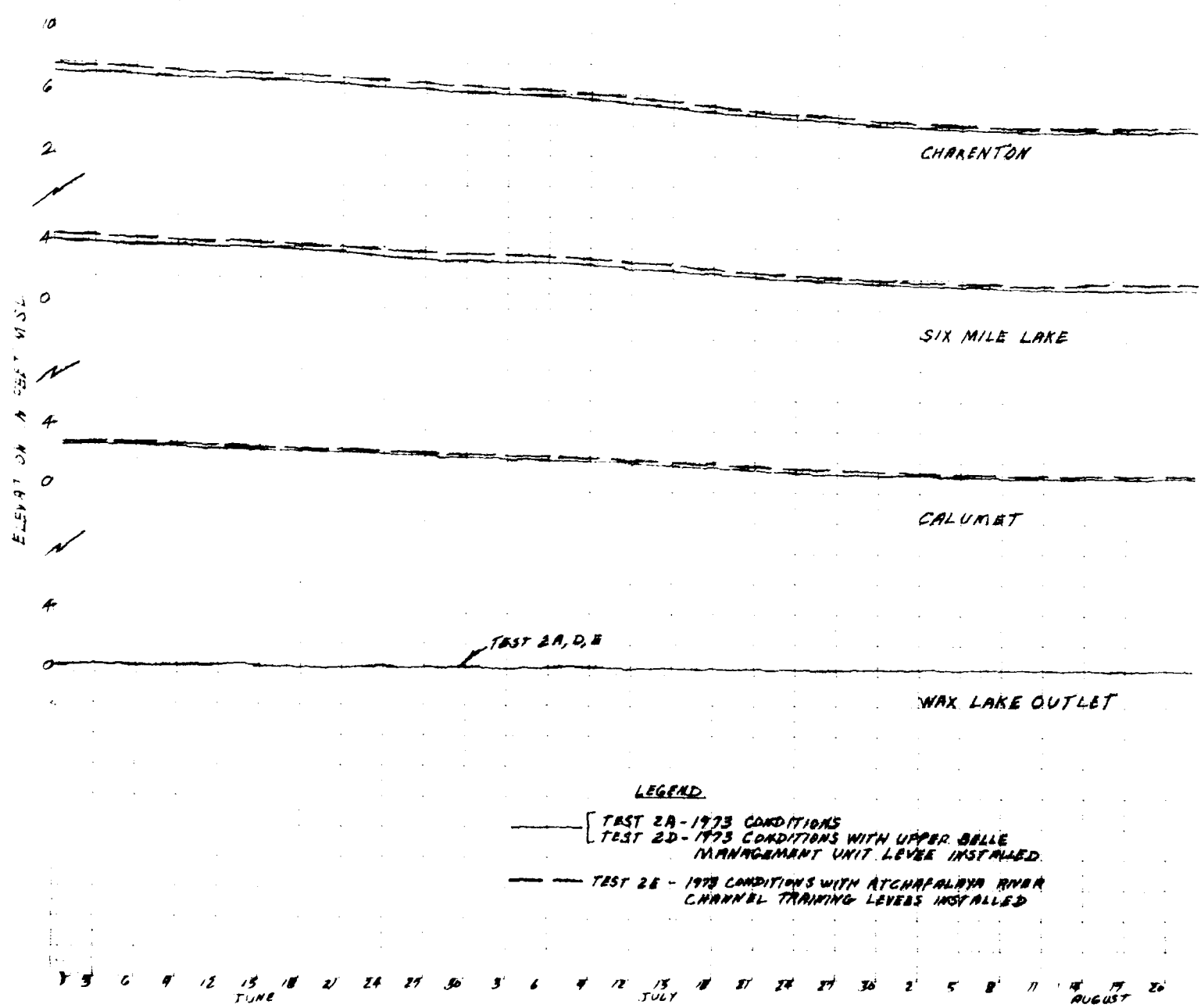
WEST ATCHAFALAYA BASIN

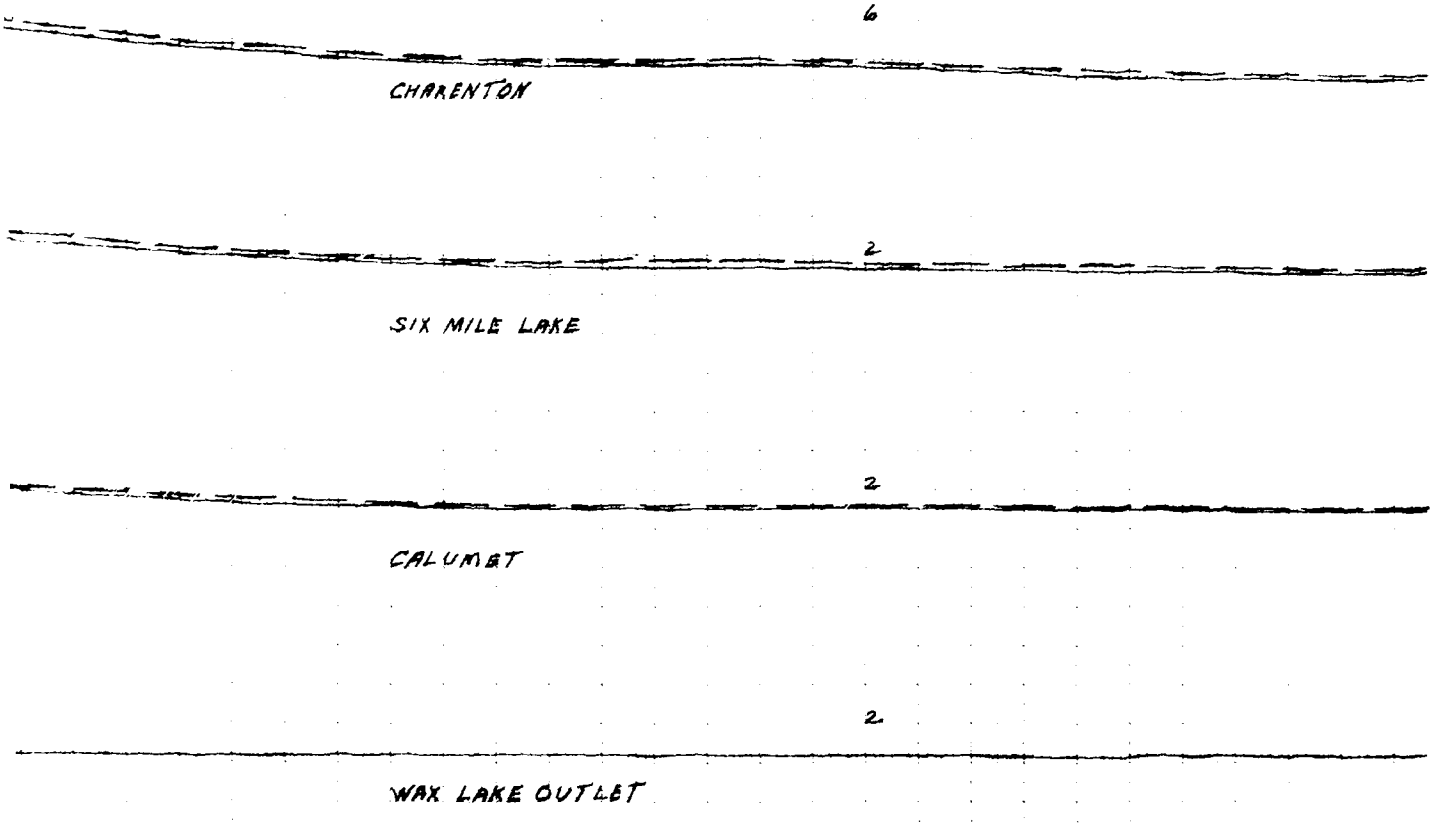
CHARENTON -- WAX LAKE OUTLET

17 30 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31

MARCH APRIL MAY

PLATE 2.8


ELEVATION IN FEET MSL
10
6
2
4
0
4
0
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
TEST 2A, D, E
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
1 3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST

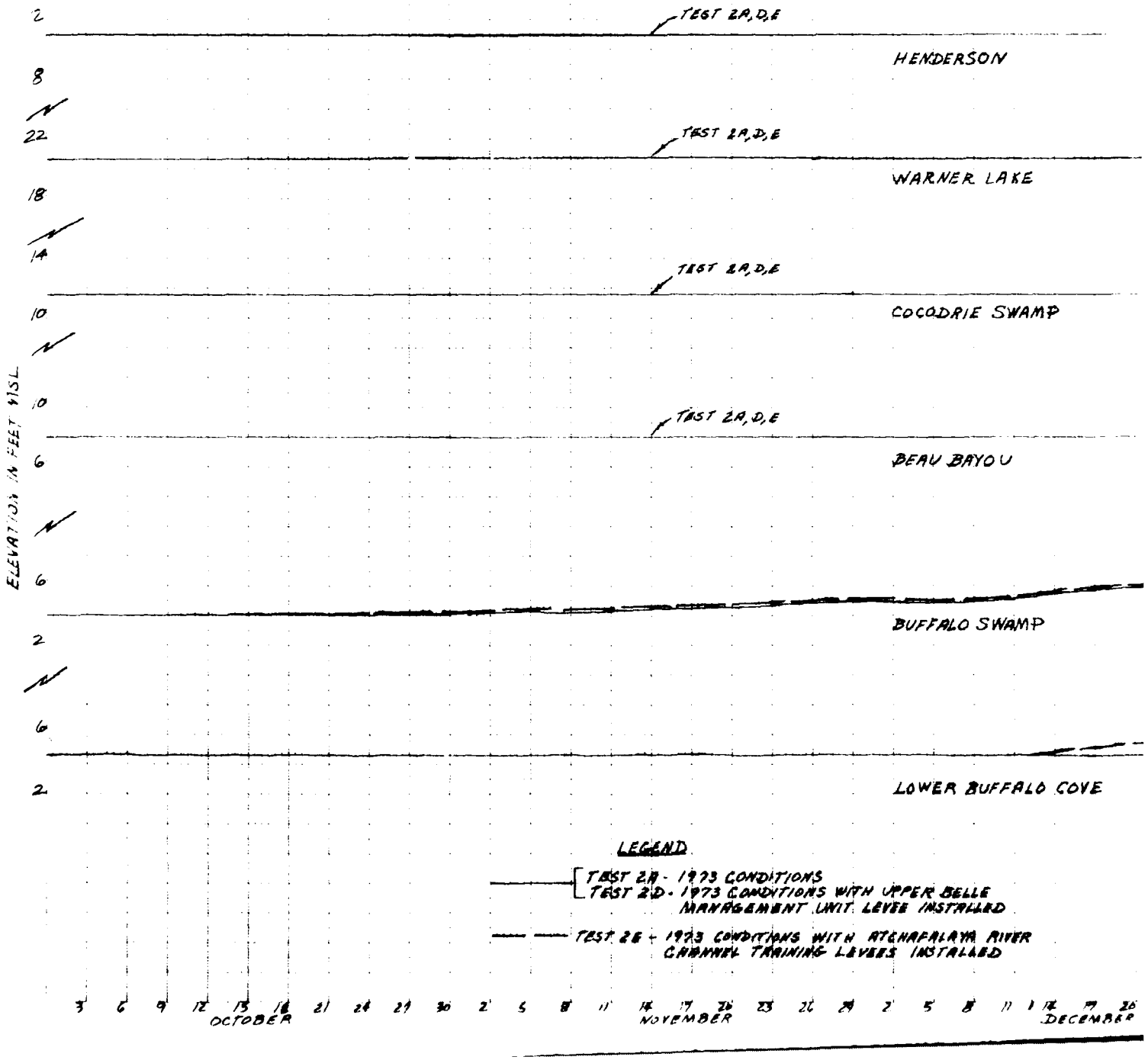


LEGEND

T 2A - 1973 CONDITIONS
T 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2A, D, E
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET

4 AIE 85


ELEVATION IN FEET MSL
2
TEST 2A,D,E
HENDERSON
8
22
TEST 2A,D,E
WARNER LAKE
18
14
TEST 2A,D,E
COCODRIE SWAMP
10
10
TEST 2A,D,E
BEAU BAYOU
6
6
BUFFALO SWAMP
2
6
LOWER BUFFALO COVE
2
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

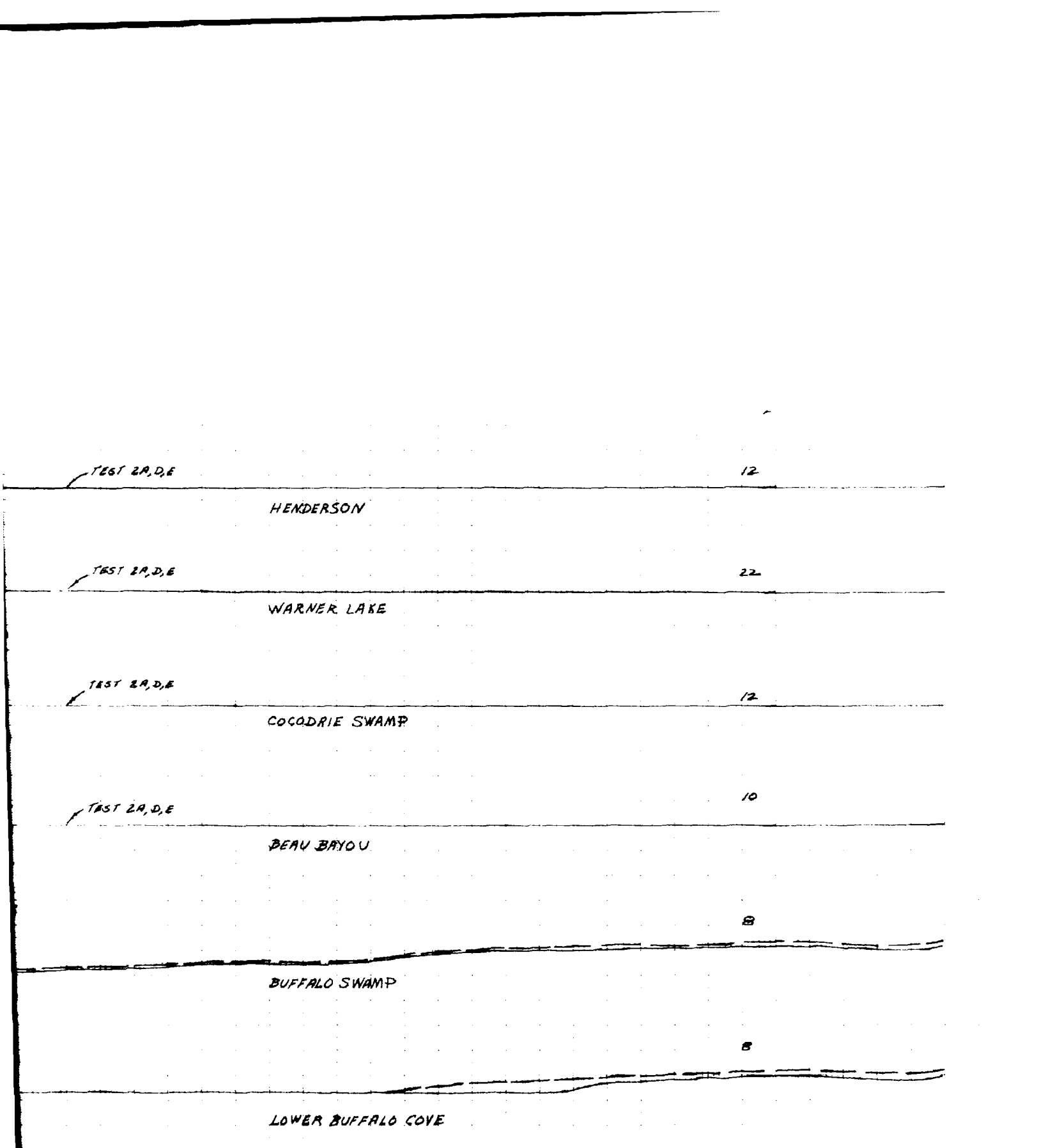
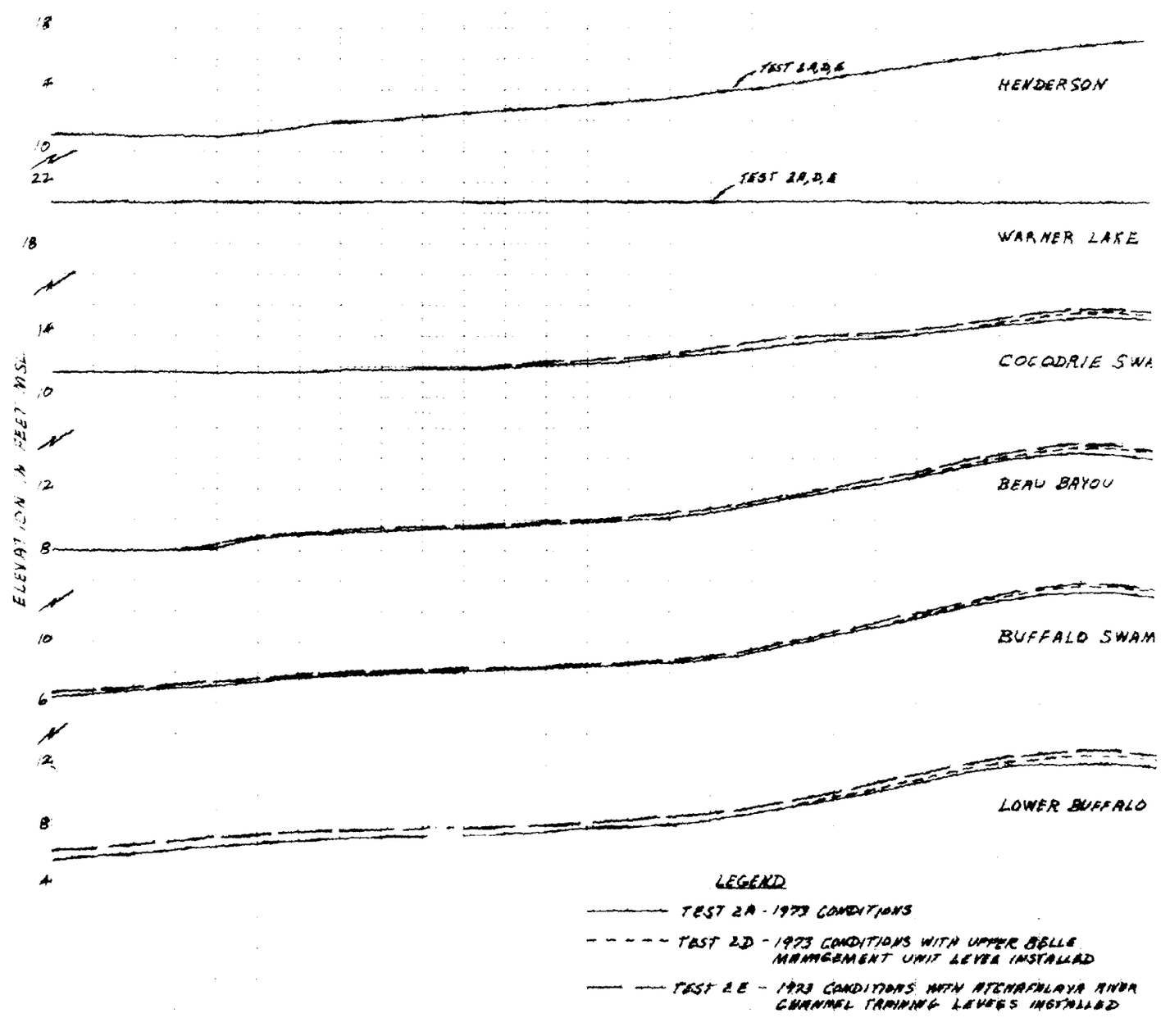
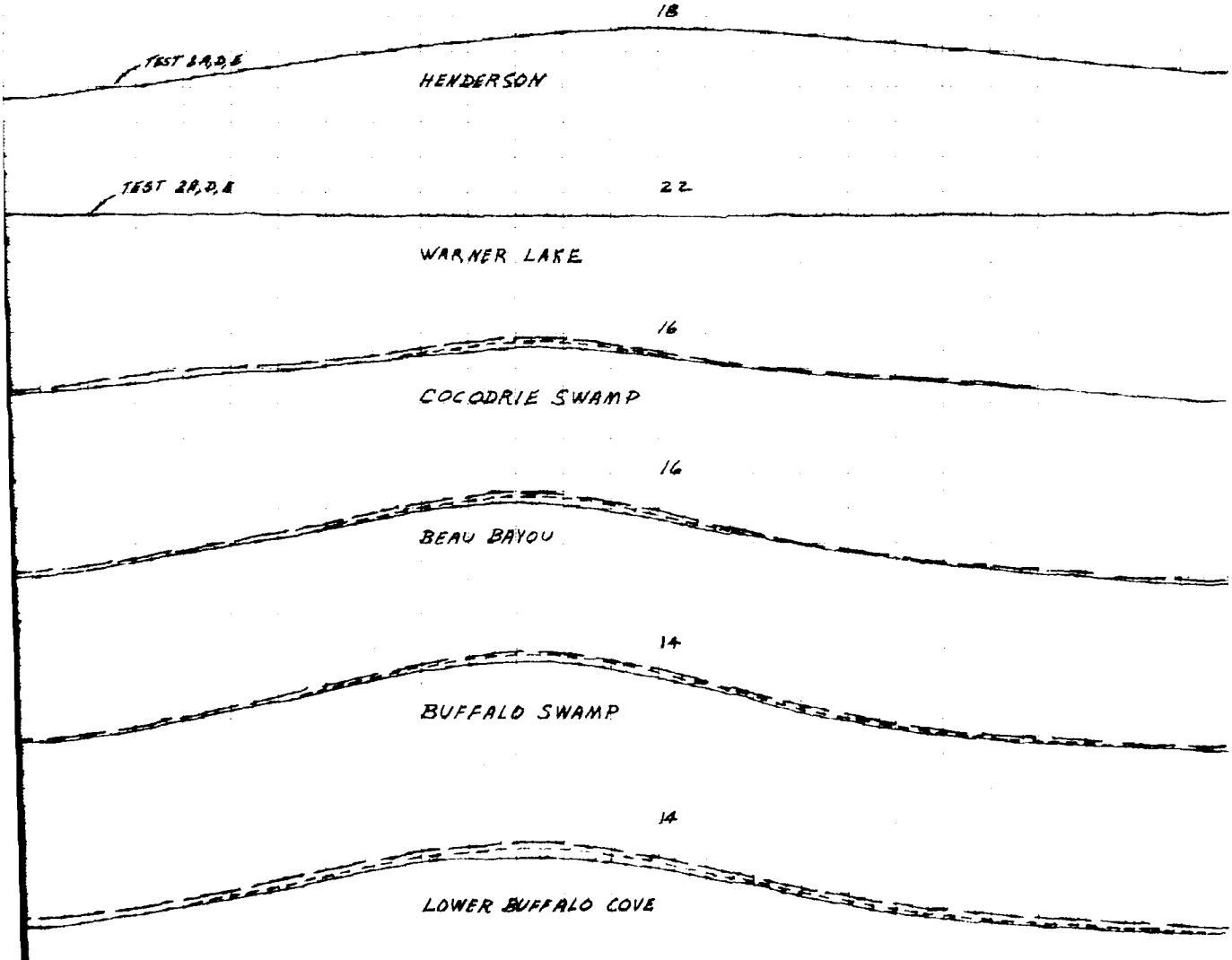

TEST 2A,D,E
12
HENDERSON
TEST 2A,D,E
22
WARNER LAKE
TEST 2A,D,E
12
COCODRIE SWAMP
TEST 2A,D,E
10
BEAU BAYOU
8
BUFFALO SWAMP
8
LOWER BUFFALO COVE
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - OCT. JAN
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE
NOVEMBER
DECEMBER
JANUARY

PLATE 86


HENDERSON
TEST 2A,D,E
WARNER LAKE
TEST 2A,D,E
COCODRIE SWA
BEAU BAYOU
BUFFALO SWAM
LOWER BUFFALO
ELEVATION IN FEET MSL
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
FEBRUARY
MARCH
APRIL



LEGEND

- TEST 2A - 1973 CONDITIONS
- TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
- TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED

STAGE HYDROGRAPHS - TEST 2A,D,E

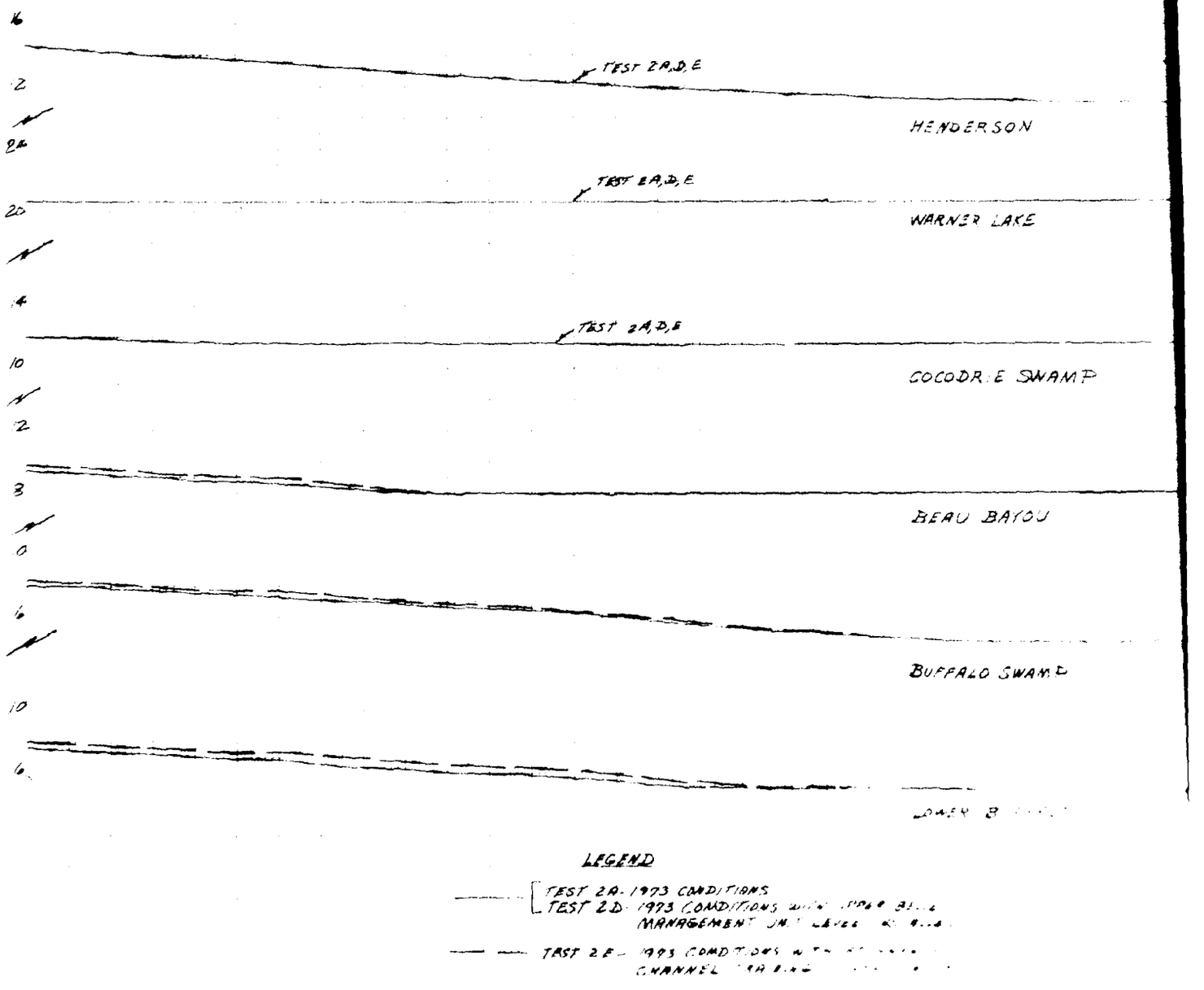
AVERAGE ANNUAL FLOWS - FEB. - MAY

WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS

HENDERSON - LOWER BUFFALO COVE

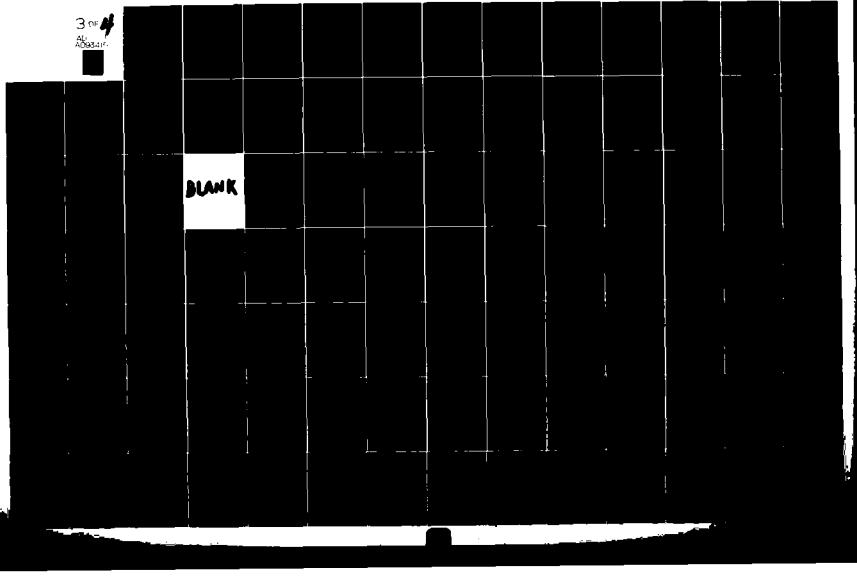
30 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31

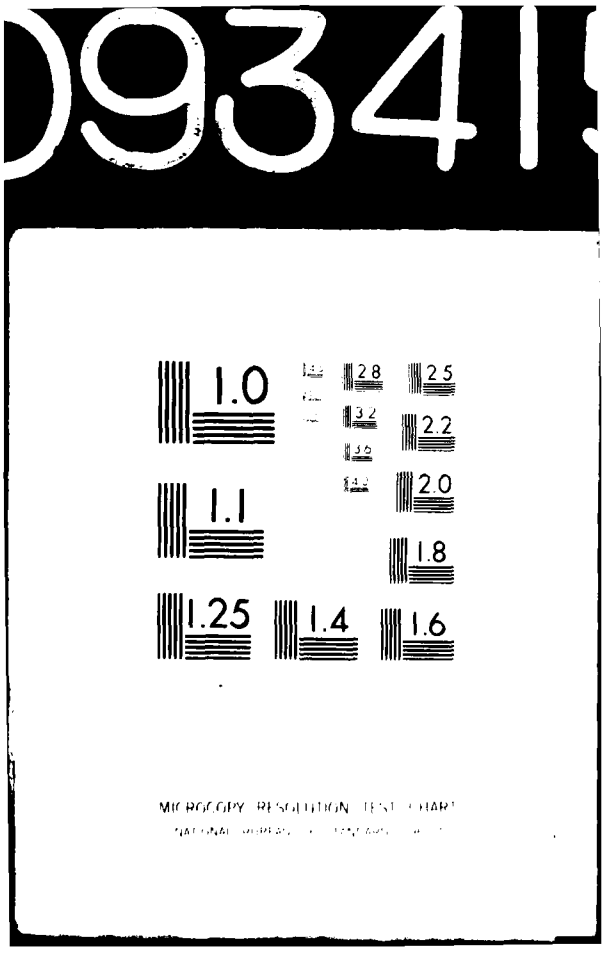
APRIL MAY


TEST 2A,D,E
HENDERSON
TEST 2A,D,E
WARNER LAKE
TEST 2A,D,E
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER
LEGEND
TEST 2A- 1993 CONDITIONS
TEST 2D- 1993 CONDITIONS
MANAGEMENT
TEST 2E- 1993 CONDITIONS
CHANNEL
3 6 9 12 15 18 21 24 27 30 3 6 9
JUNE

AD-A093 415 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS F/G 13/2
EFFECTS OF CLOSING WAX LAKE OUTLET AND CONSTRUCTING MANAGEMENT --ETC(U)
NOV 80 J E FOSTER, J V ALLEN IAO-LMNED-79-86
UNCLASSIFIED WES-MISS-BASIN MODEL-31-8 NL

3 OF 4
AD A093415




1.0
1.1
1.25
1.4
1.6
2.8
2.5
3.2
2.2
3.5
4.0
2.0
1.8
MICROCOPY RESOLUTION TEST CHART

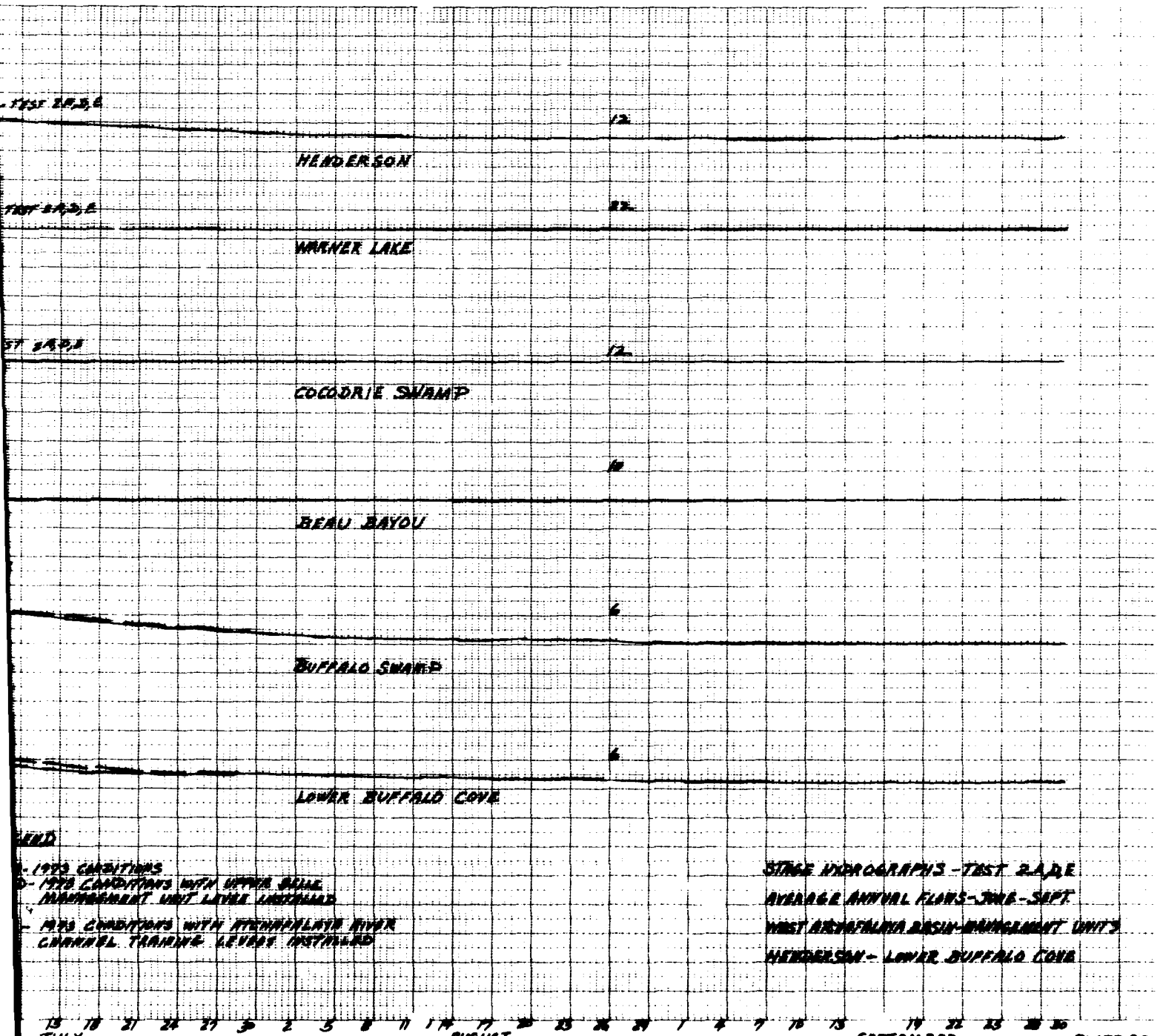
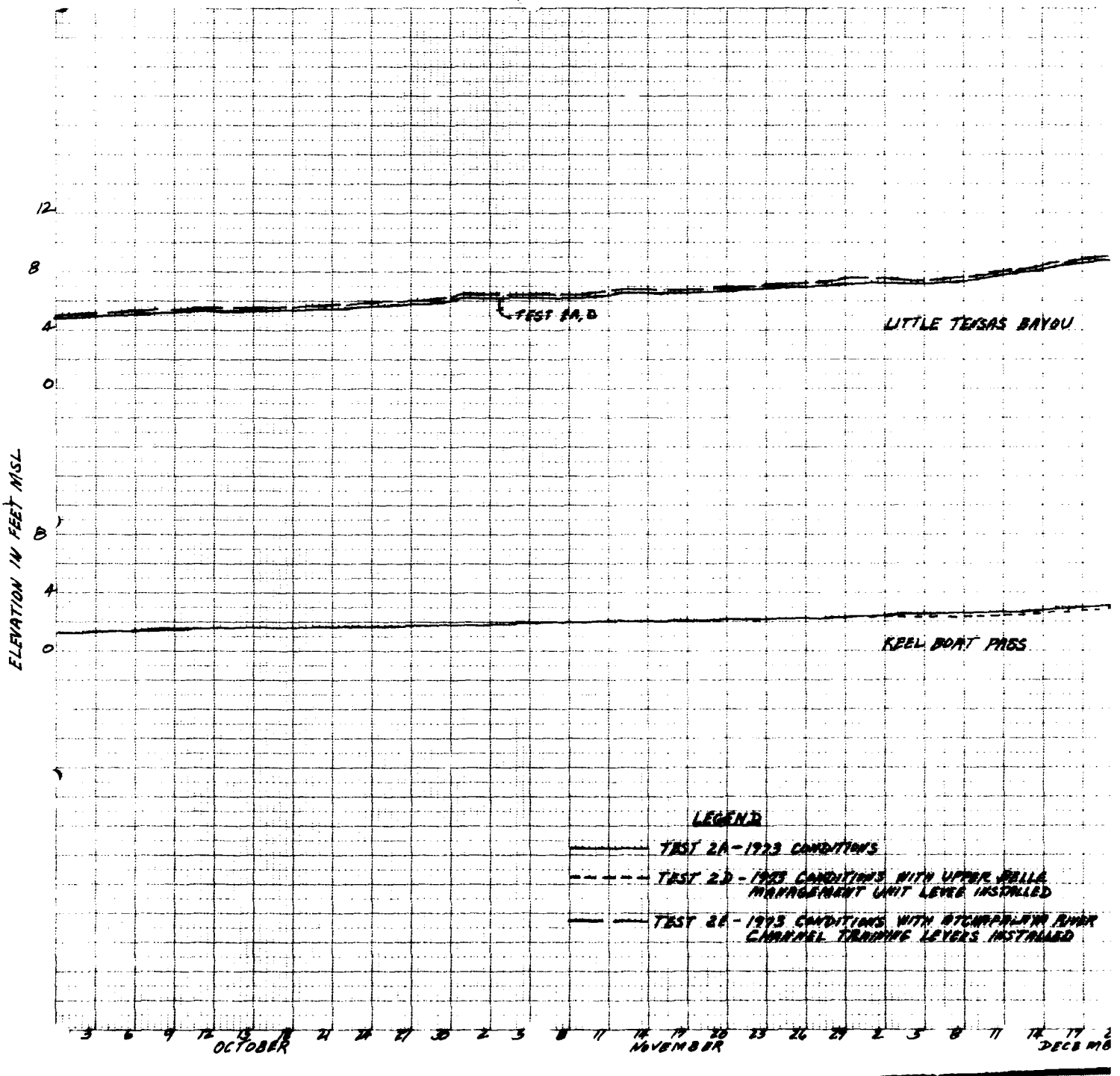

TEST 2,A,D,E
12
HENDERSON
TEST 2,A,D,E
12
WARNER LAKE
ST 2,A,D,E
12
COCODRIE SWAMP
10
BEAU BAYOU
6
BUFFALO SWAMP
6
LOWER BUFFALO COVE
END
- 1973 CONDITIONS
- 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
- 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2,A,D,E
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN-MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE
13 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
JULY
AUGUST
SEPTEMBER

PLATE 88


ELEVATION IN FEET MSL
12
8
4
0
8
4
0
TEST 2A, B
LITTLE TEXAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER ATCHAFALAYA RIVER MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
3 6 9 12 15 18 21 24 27 30 2 3 8 11 14 17 20 23 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMBER

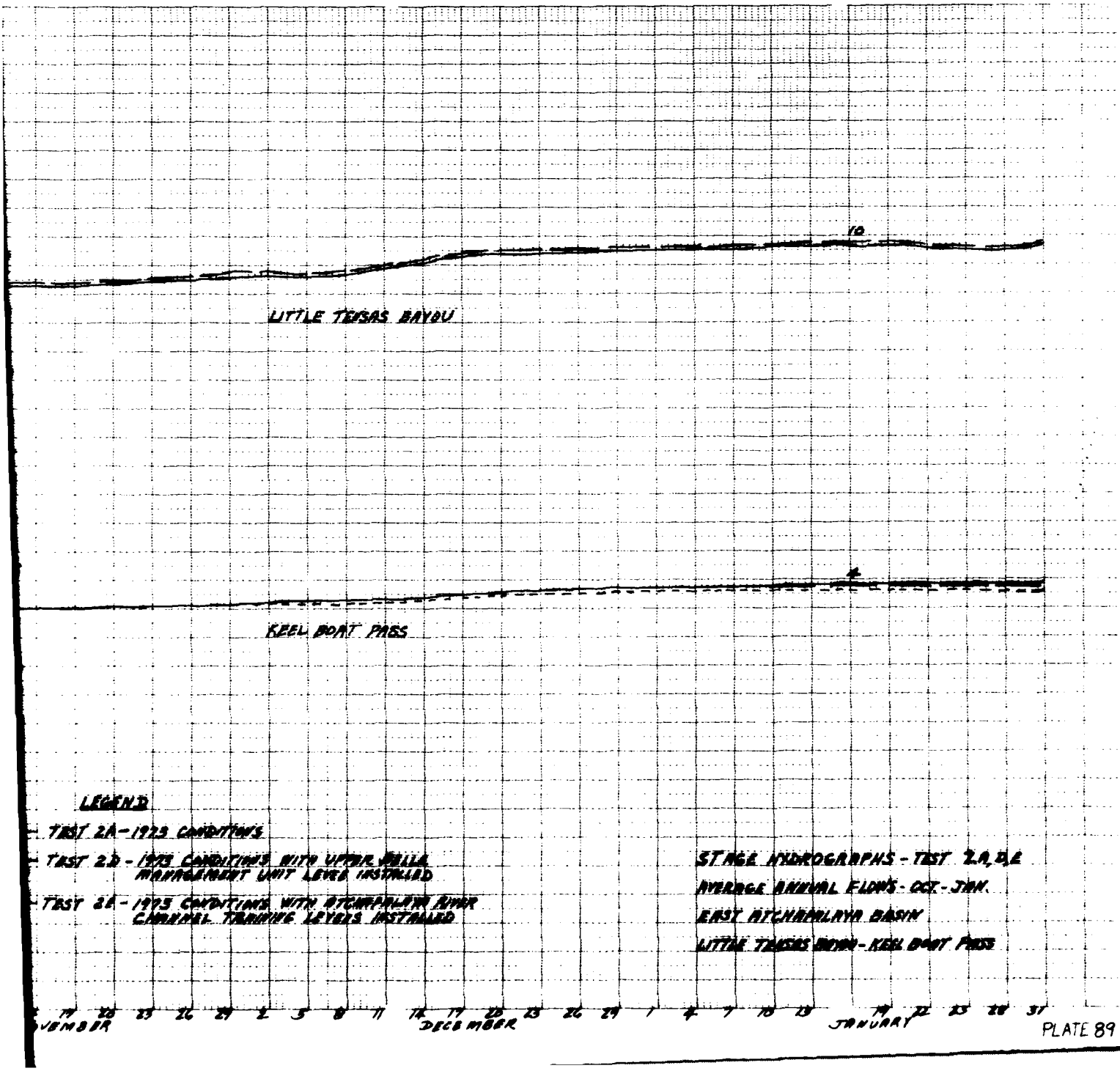
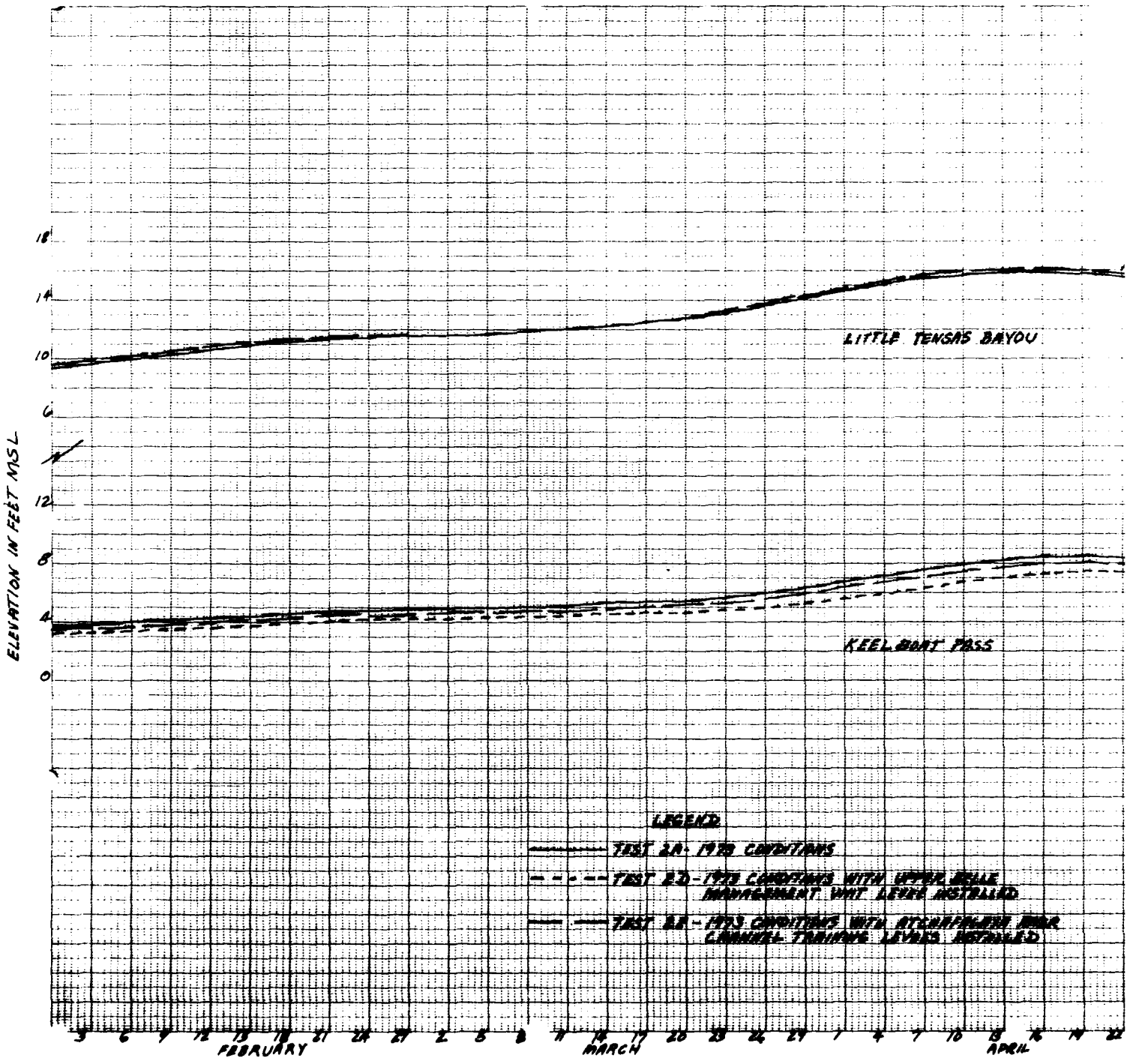

10
LITTLE TENSAS BAYOU
4
KEEL BOAT PASS
LEGEND
TEST 2A - 1929 CONDITIONS
TEST 2D - 1975 CONDITIONS WITH UPPER DELTA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A, D, E
AVERAGE ANNUAL FLOWS - OCT - JAN.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 89


ELEVATION IN FEET MSL
18
14
10
6
12
8
4
0
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 2A- 1978 CONDITIONS
TEST 2D- 1978 CONDITIONS WITH UPPER REACH MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E- 1978 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22
APRIL

2

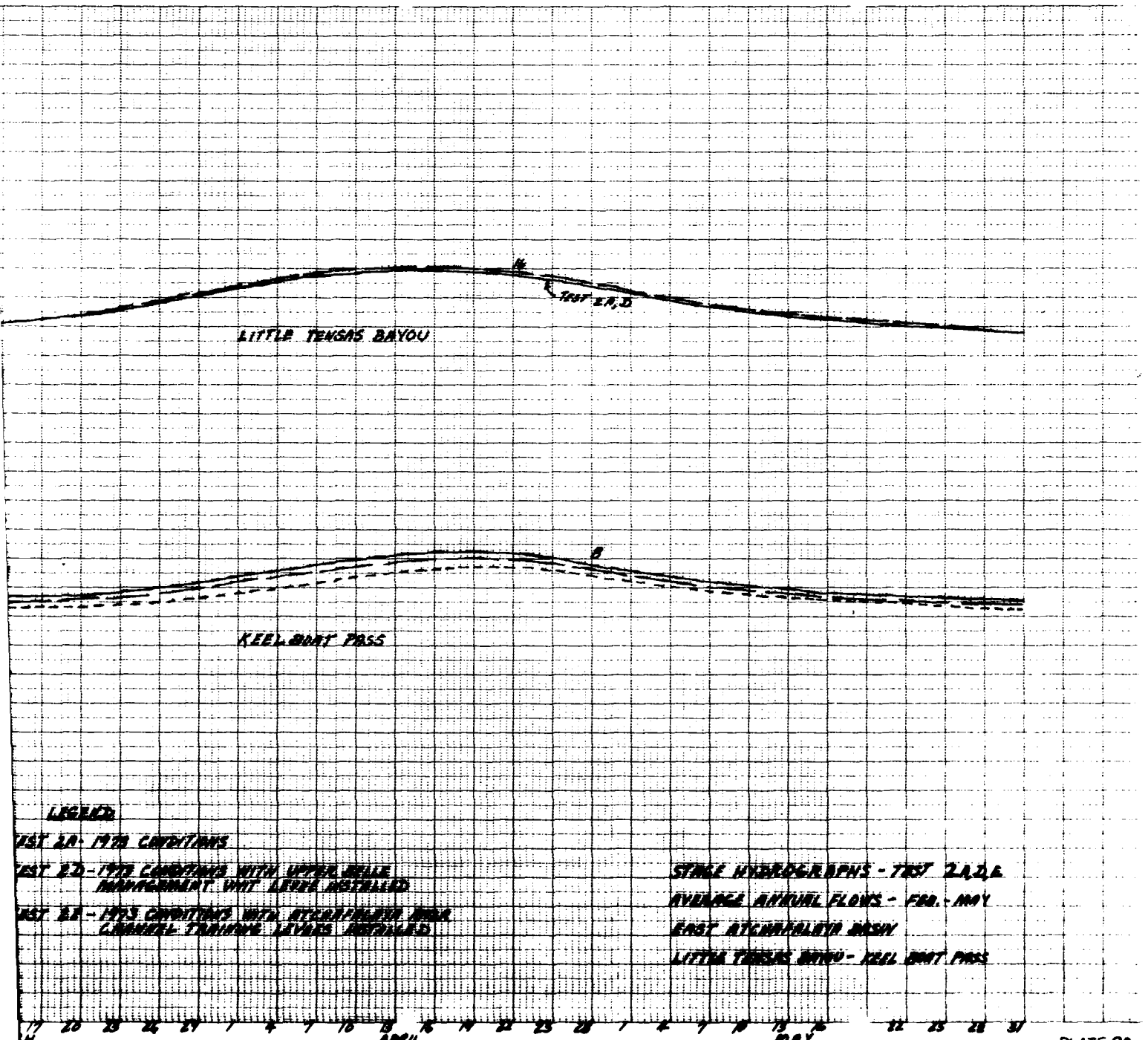
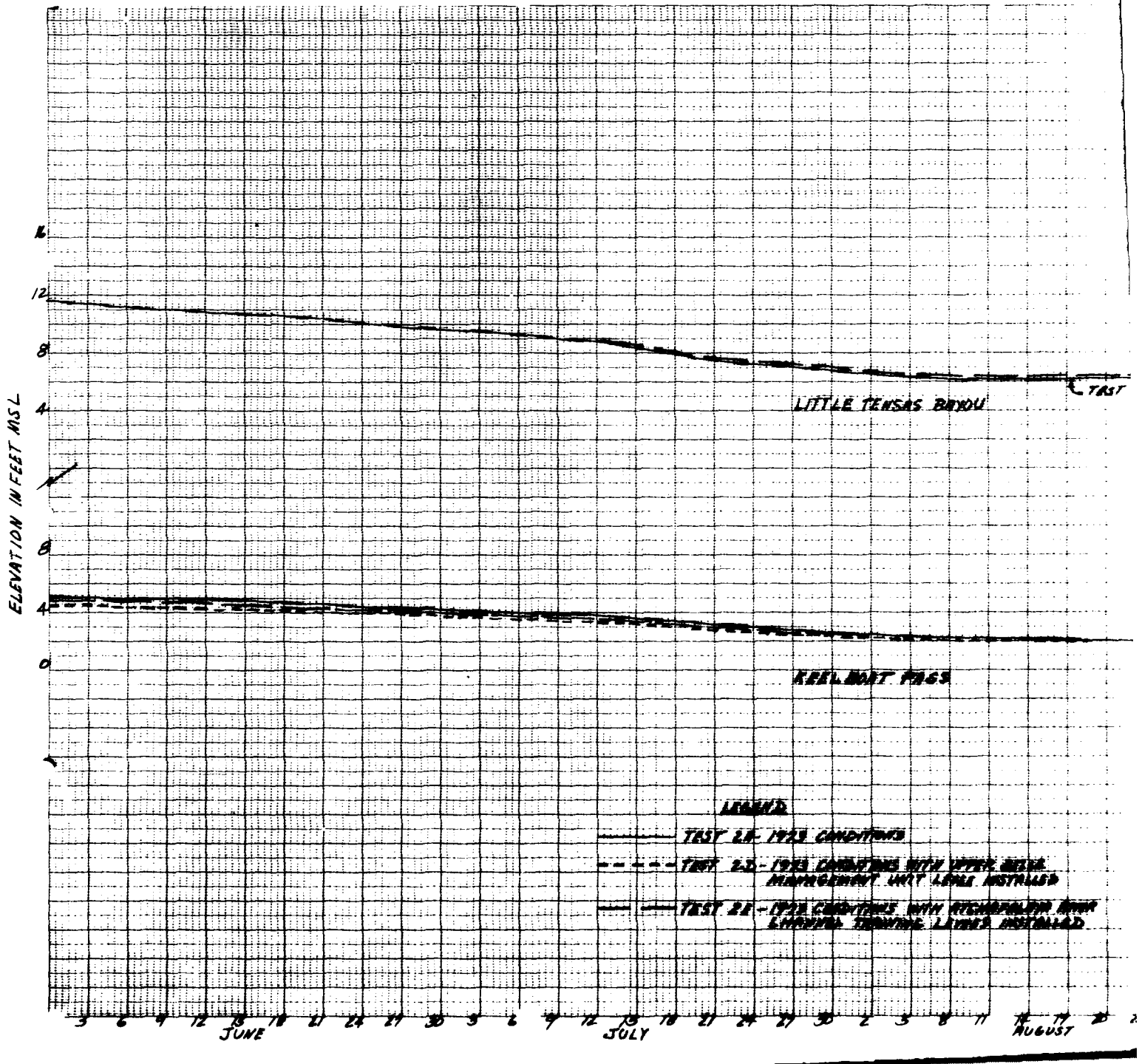

TEST 2A, D
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 2A- 1978 CONDITIONS
TEST 2D- 1978 CONDITIONS WITH UPPER DELTA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E- 1978 CONDITIONS WITH ATCHAFALAYA BASIN CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - FEB. - MAY
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
MARCH
APRIL
MAY

PLATE 90


ELEVATION IN FEET MSL
12
8
4
0
LITTLE TENSAS BAYOU
KEELBOAT PASS
TEST
LEGEND
TEST 2A - 1929 CONDITIONS
TEST 2B - 1978 CONDITIONS WITH UPPER DELTA MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1978 CONDITIONS WITH RICHARDSON BEND & MONTEREY TERMINAL LEVEES INSTALLED
JUNE
JULY
AUGUST

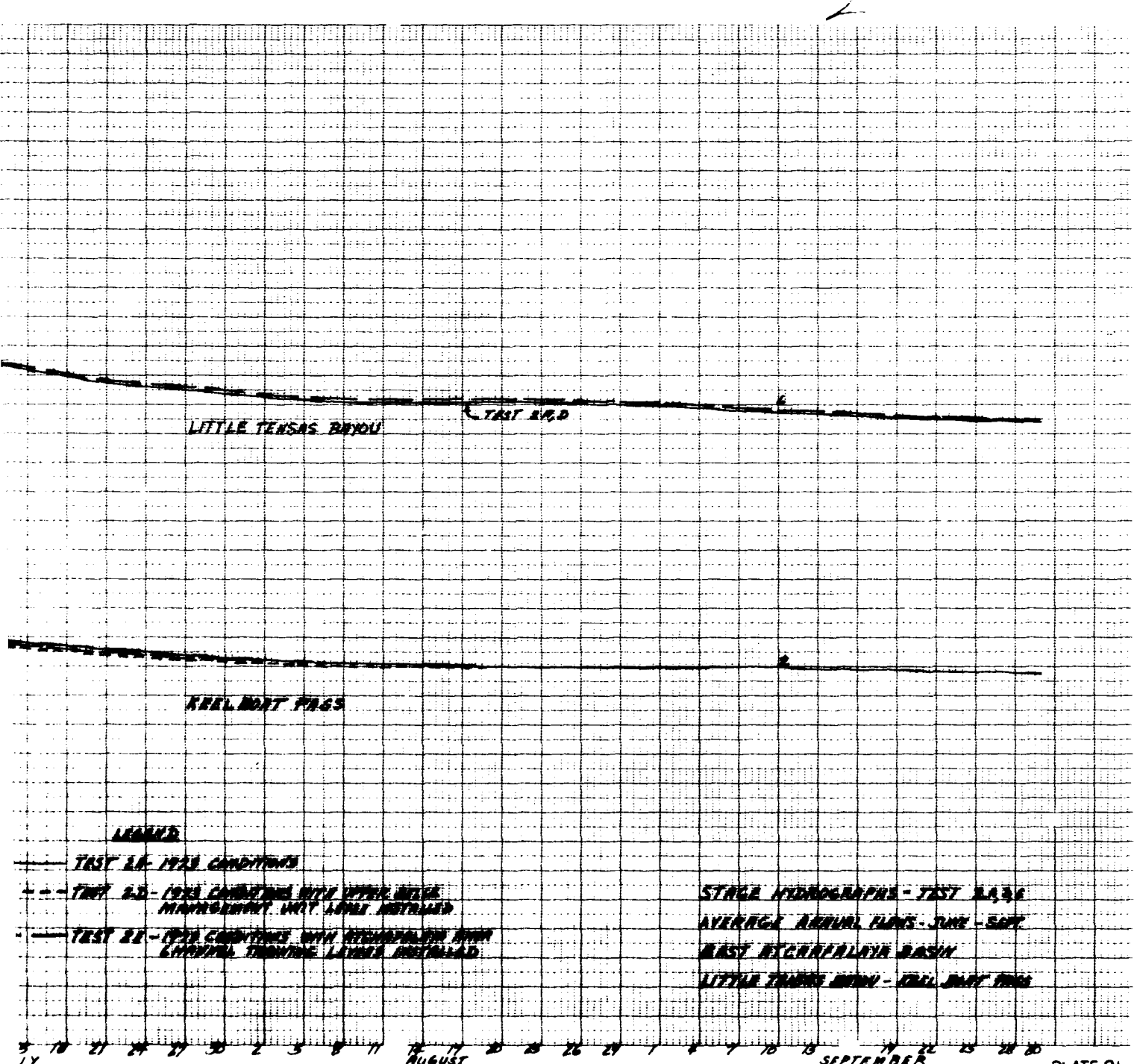
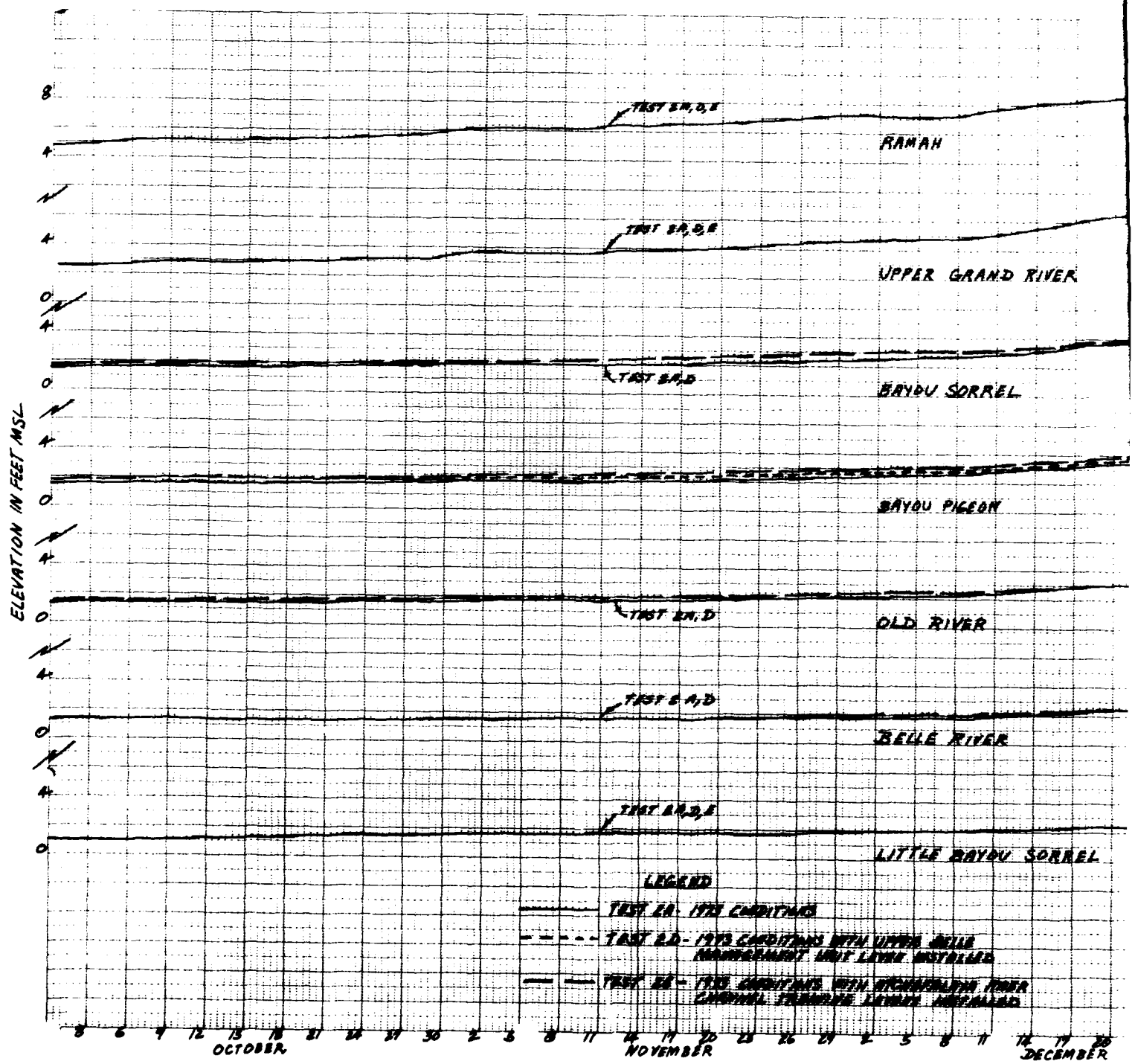

LITTLE TENSAS BAYOU
TEST A & D
KEEL BOAT PAGS
LEGEND
TEST 2A- 1928 CONDITIONS
TEST 2D- 1928 CONDITIONS WITH UPPER MISSI. MANAGEMENT UNIT LEVEE RESTORED
TEST 2E- 1928 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,2D,2E
AVERAGE RETURN FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PAGS
JULY
AUGUST
SEPTEMBER

PLATE 91


ELEVATION IN FEET MSL
RAMAH
TEST E-M, D, E
UPPER GRAND RIVER
TEST E-A, D, E
BAYOU SORREL
TEST E-A, D
BAYOU PIGEON
OLD RIVER
TEST E-M, D
BELLE RIVER
TEST E-A, D
LITTLE BAYOU SORREL
TEST E-A, D, E
LEGEND
TEST E-A: 1975 CONDITIONS
TEST E-D: 1975 CONDITIONS WITH UPPER BELLE
RIVER MAINTENANCE LEVEE INSTALLED
TEST E-E: 1975 CONDITIONS WITH ATCHAFALAYA RIVER
CHANNEL TRAINING LEVEES INSTALLED
OCTOBER
NOVEMBER
DECEMBER

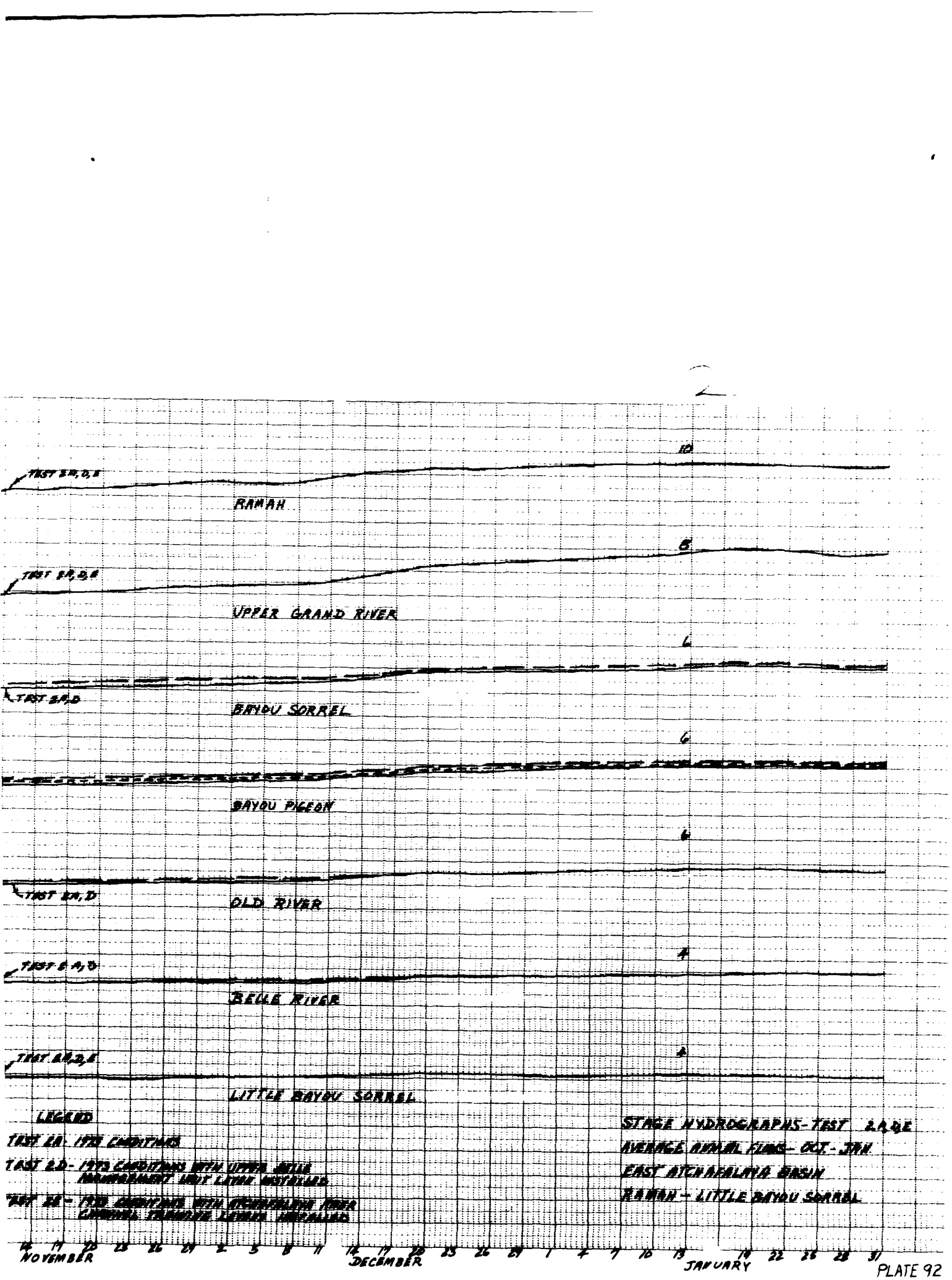
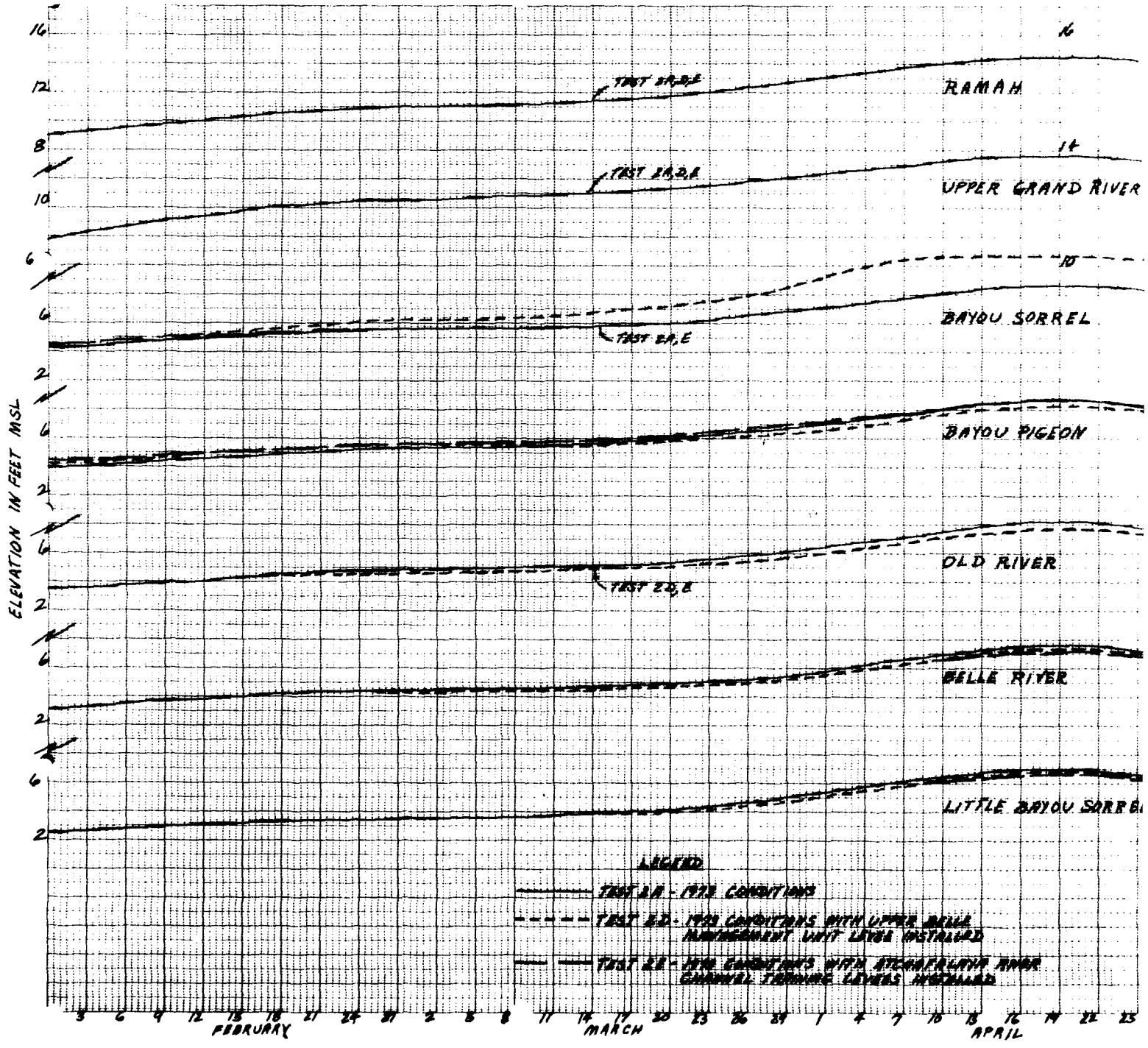

TEST 2A, D, E
RAMAH
10
TEST 2A, D, E
UPPER GRAND RIVER
8
TEST 2A, D
BAYOU SORREL
4
BAYOU PIGEON
6
TEST 2A, D
OLD RIVER
4
TEST 2A, D
BELLE RIVER
4
TEST 2A, D, E
LITTLE BAYOU SORREL
4
LEGEND
TEST 2A: 1973 CONDITIONS
TEST 2D: 1973 CONDITIONS WITH UPPER BELLE
RIVER IMPROVEMENT AND LEVEE WESTWARD
TEST 2E: 1973 CONDITIONS WITH ATCHAFALAYA RIVER
CHANNEL TERMINUS LEVEES ABANDONED
STAGE HYDROGRAPHS - TEST 2A, D, E
AVERAGE ANNUAL FLOWS - OCT. - JAN
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
12 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 92


ELEVATION IN FEET MSL
RAMAH
TEST 2A,B,E
UPPER GRAND RIVER
TEST 2A,B,E
BAYOU SORREL
TEST 2A,E
BAYOU PIGEON
OLD RIVER
TEST 2D,E
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 2A - 1975 CONDITIONS
TEST 2D - 1975 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
FEBRUARY
MARCH
APRIL

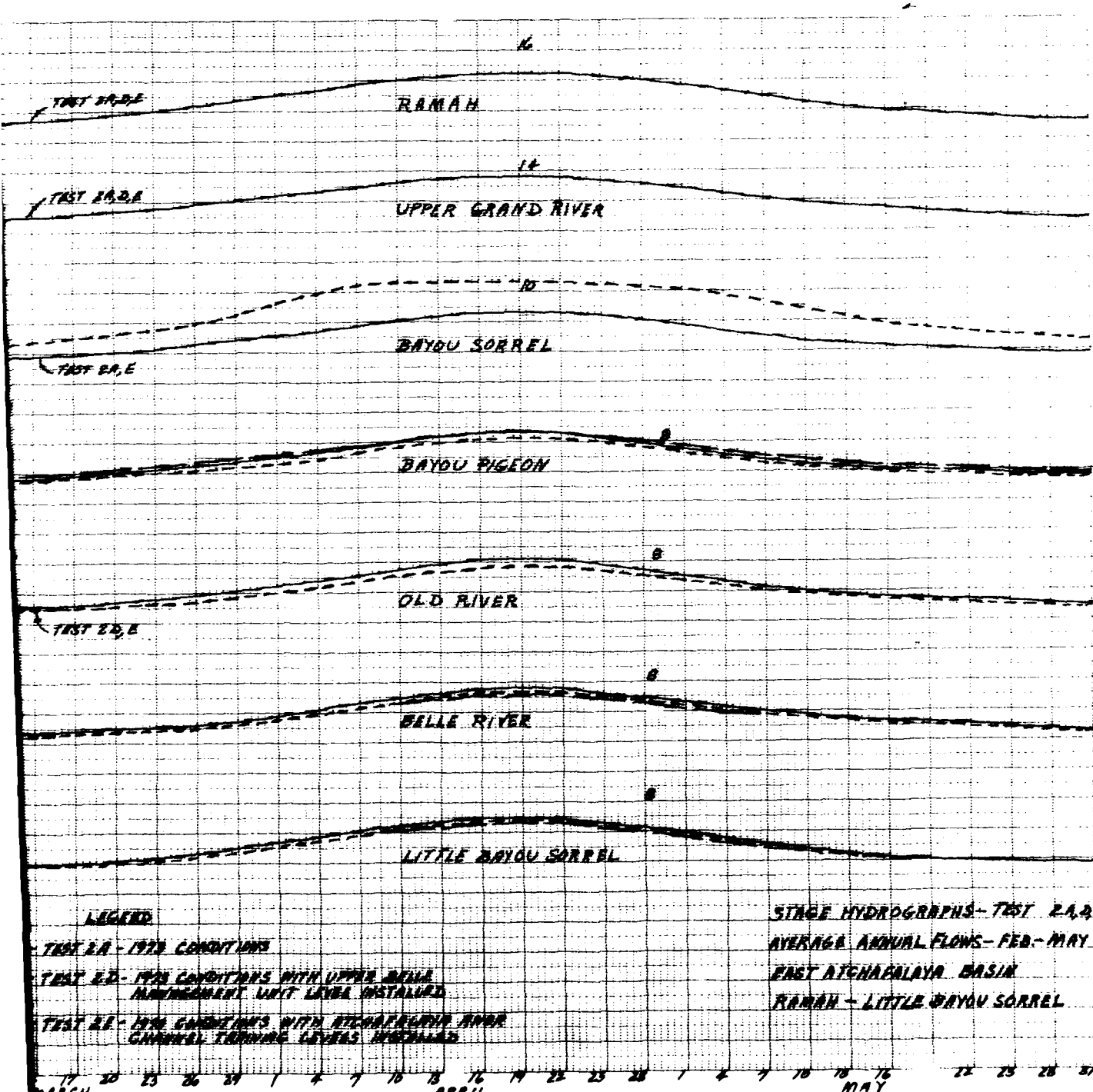
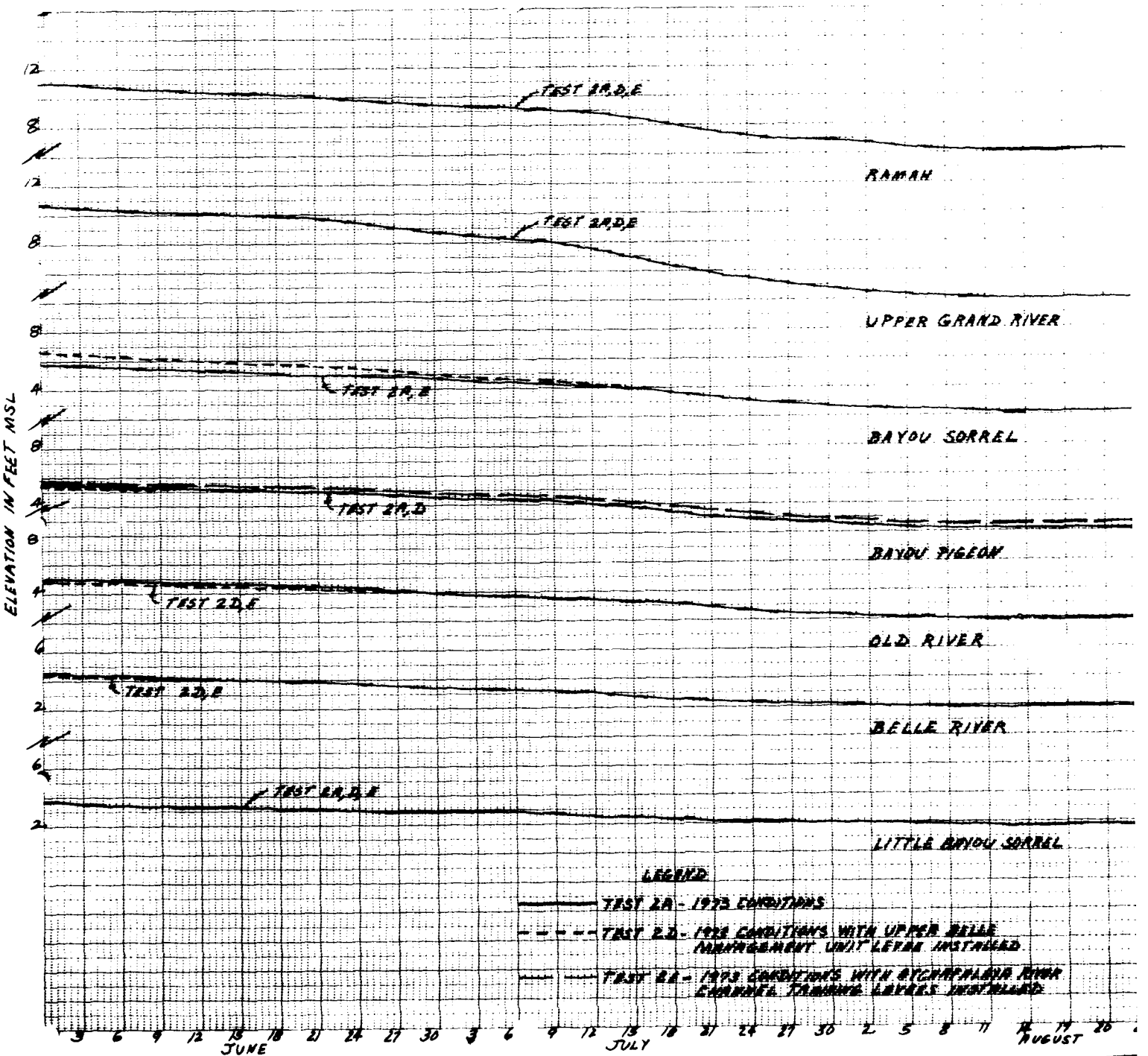

RAMAH
TEST 2A,D,E
UPPER GRAND RIVER
TEST 2A,D,E
BAYOU SORREL
TEST 2A,E
BAYOU PIGEON
OLD RIVER
TEST 2D,E
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1973 CONDITIONS WITH UPPER BELLE MANMEUVERET UNIT LEVEE INSTALLED
TEST 2E - 1973 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - FEB. - MAY
FOR ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
MARCH
APRIL
MAY

PLATE 93


ELEVATION IN FEET MSL
TEST 2A,D,E
RAMAH
TEST 2A,D,E
UPPER GRAND RIVER
TEST 2A,E
BAYOU SORREL
TEST 2A,D
BAYOU PIGEON
TEST 2D,E
OLD RIVER
TEST 2D,E
BELLE RIVER
TEST 2A,D,E
LITTLE BAYOU SORREL
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2D - 1978 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1978 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
JUNE
JULY
AUGUST

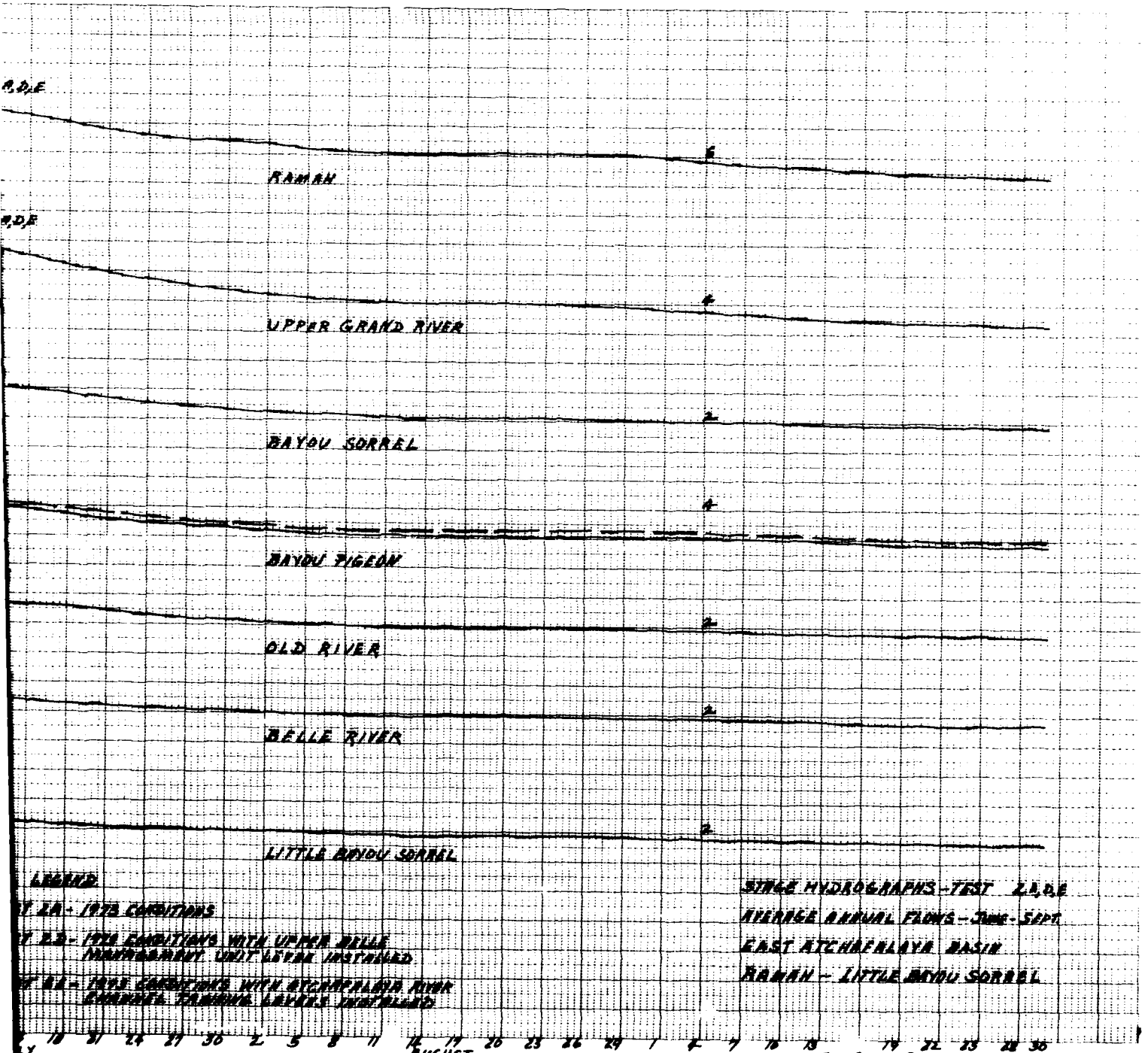
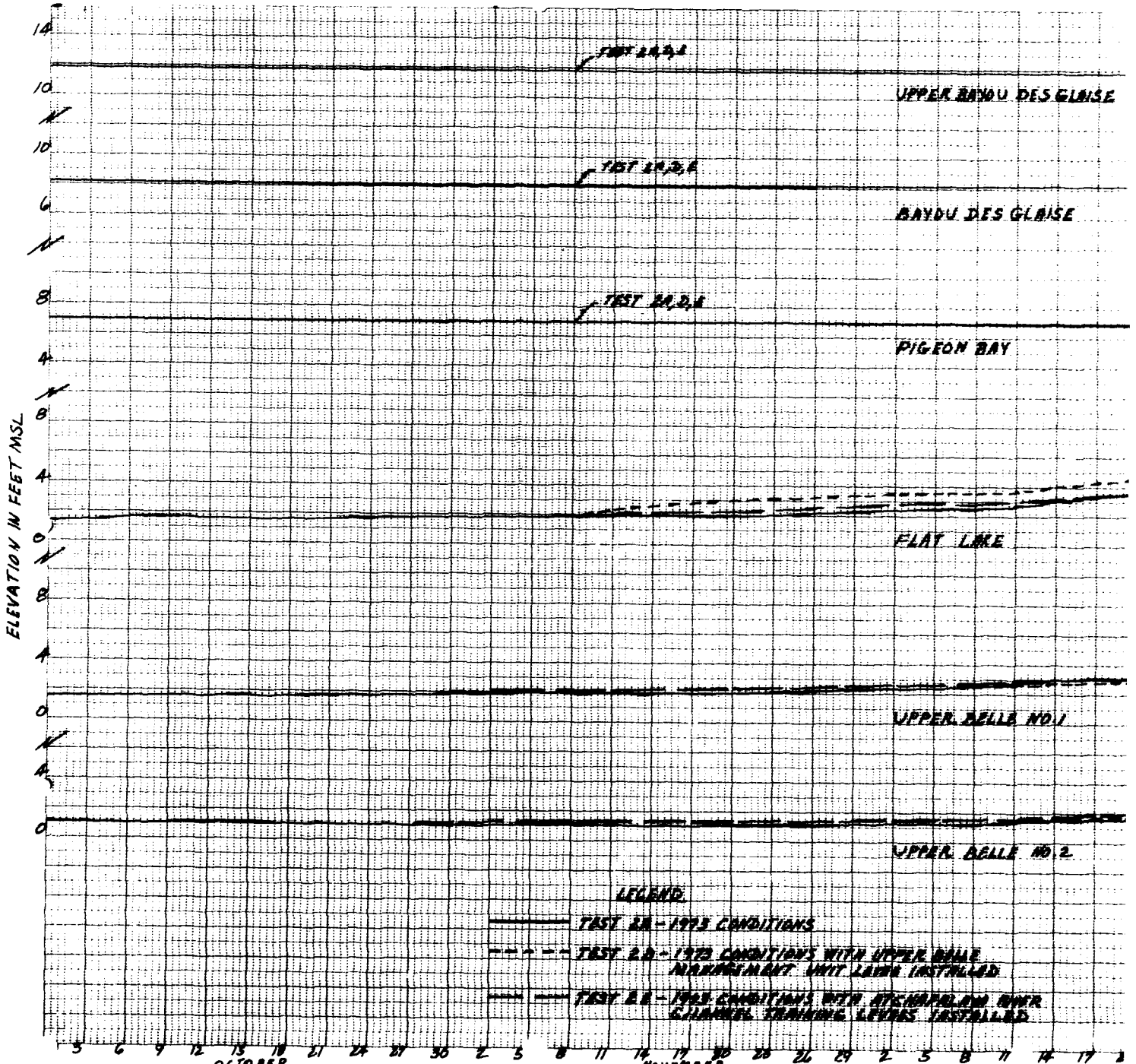

A,D,E
RAMAH
A,D,E
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
2A - 1978 CONDITIONS
2D - 1978 CONDITIONS WITH UPPER BELLE
MAINTENANCE UNIT LEVEE INSTALLED
2E - 1978 CONDITIONS WITH ATCHAFALAYA RIVER
CONTROL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 2A,D,E
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
AUGUST
SEPTEMBER

PLATE 94


ELEVATION IN FEET MSL
14
10
10
6
8
4
8
4
0
8
4
0
4
0
TEST 2A,B,E
UPPER BAYOU DES GLAISE
TEST 2A,B,E
BAYOU DES GLAISE
TEST 2A,B,E
PIGEON BAY
FLAT LAKE
UPPER BELLE NO.1
UPPER BELLE NO.2
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2B - 1973 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
TEST 2E - 1985 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
5 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17
DECEMBER

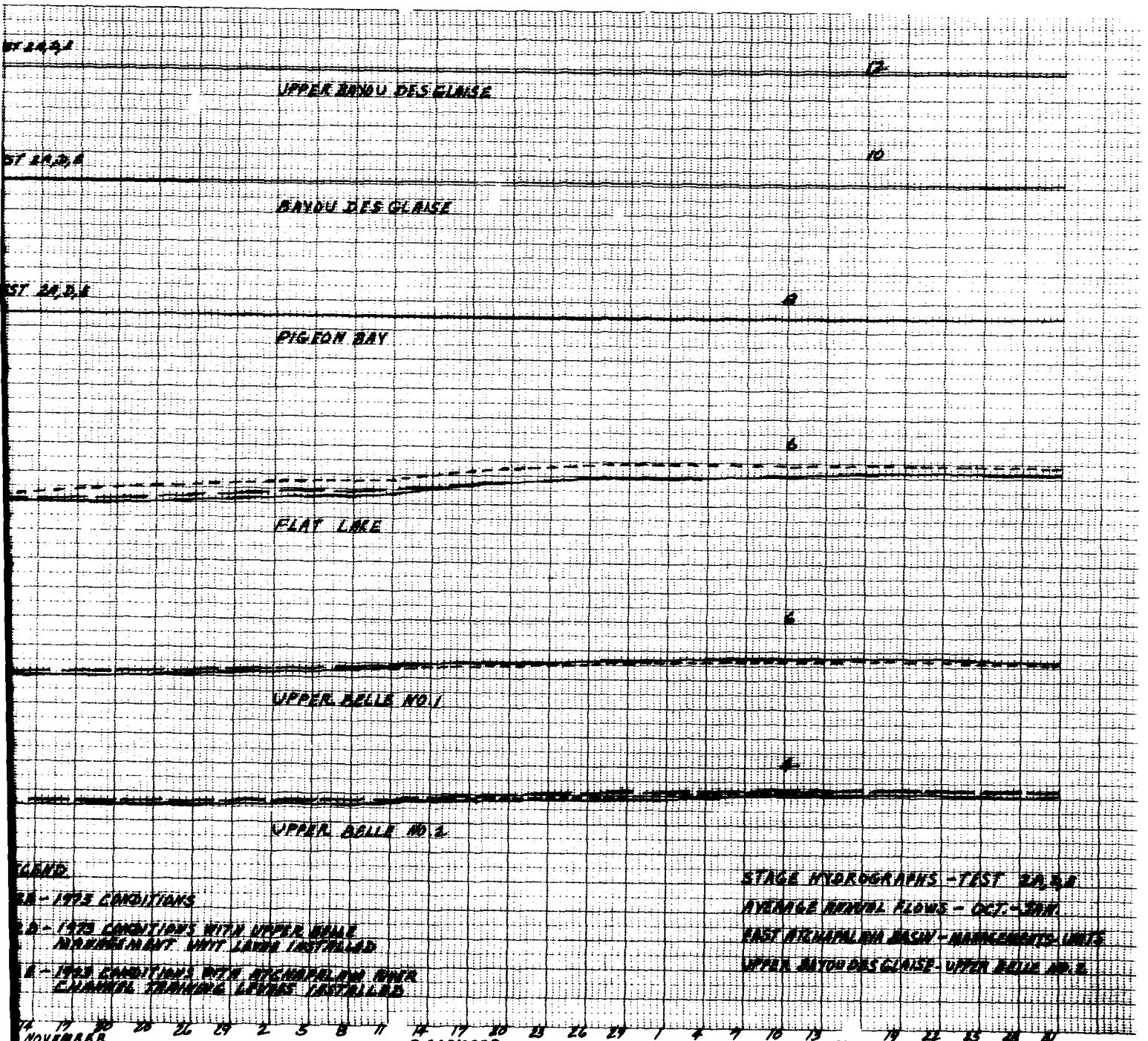
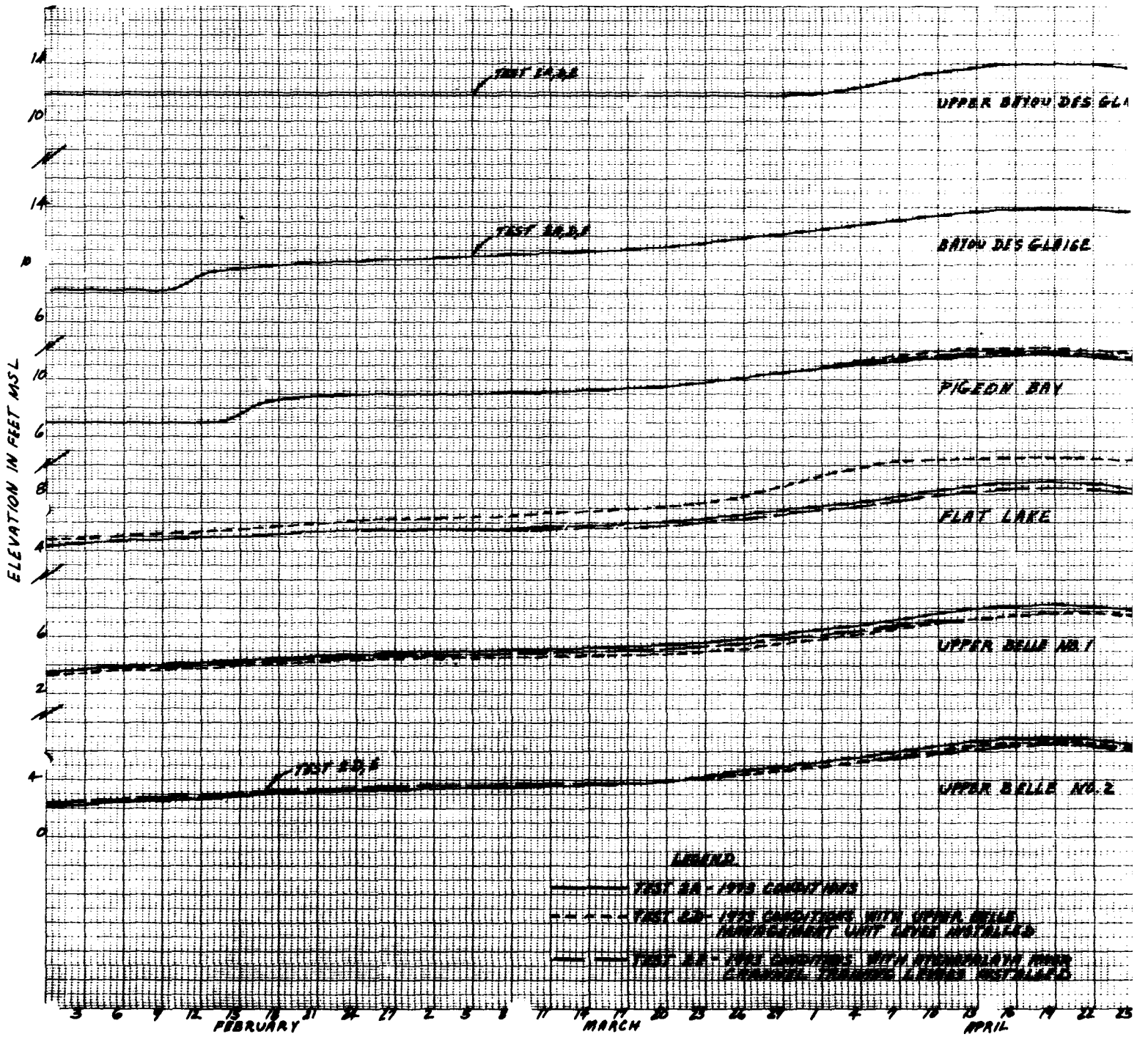

ST 24,D,E
12
UPPER BAYOU DES GLAISE
ST 24,D,E
10
BAYOU DES GLAISE
ST 24,D,E
8
PIGEON BAY
6
FLAT LAKE
6
UPPER BELLE NO.1
4
UPPER BELLE NO.2
LEGEND
E - 1975 CONDITIONS
D - 1975 CONDITIONS WITH UPPER BELLE MANAGEMENT UNIT LEVEE INSTALLED
E - 1975 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL TRAINING LEVEES INSTALLED
STAGE HYDROGRAPHS - TEST 24,D,E
AVERAGE ANNUAL FLOWS - OCT.-MAR.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE NO.2
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
NOVEMBER
DECEMBER
JANUARY

PLATE 95


ELEVATION IN FEET MSL
14
10
14
10
6
10
6
8
4
6
2
4
0
TEST 2-A, B
TEST 2-A, B
TEST 2-A, B
TEST 2-A, B
UPPER BAYOU DES GL
BAYOU DES GLAIGE
PIGEON BAY
FLAT LAKE
UPPER BELLE NO. 1
UPPER BELLE NO. 2
LEGEND.
TEST 2A - 1975 CANDITIONS
TEST 2B - 1975 CONDITIONS WITH UPPER BELLE
MANAGEMENT UNIT LEVEE INSTALLED
TEST 2A - 1975 CONDITIONS WITH FITZGERALDS POND
CHANNEL IMPROVED & LEVEES INSTALLED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25
FEBRUARY
MARCH
APRIL

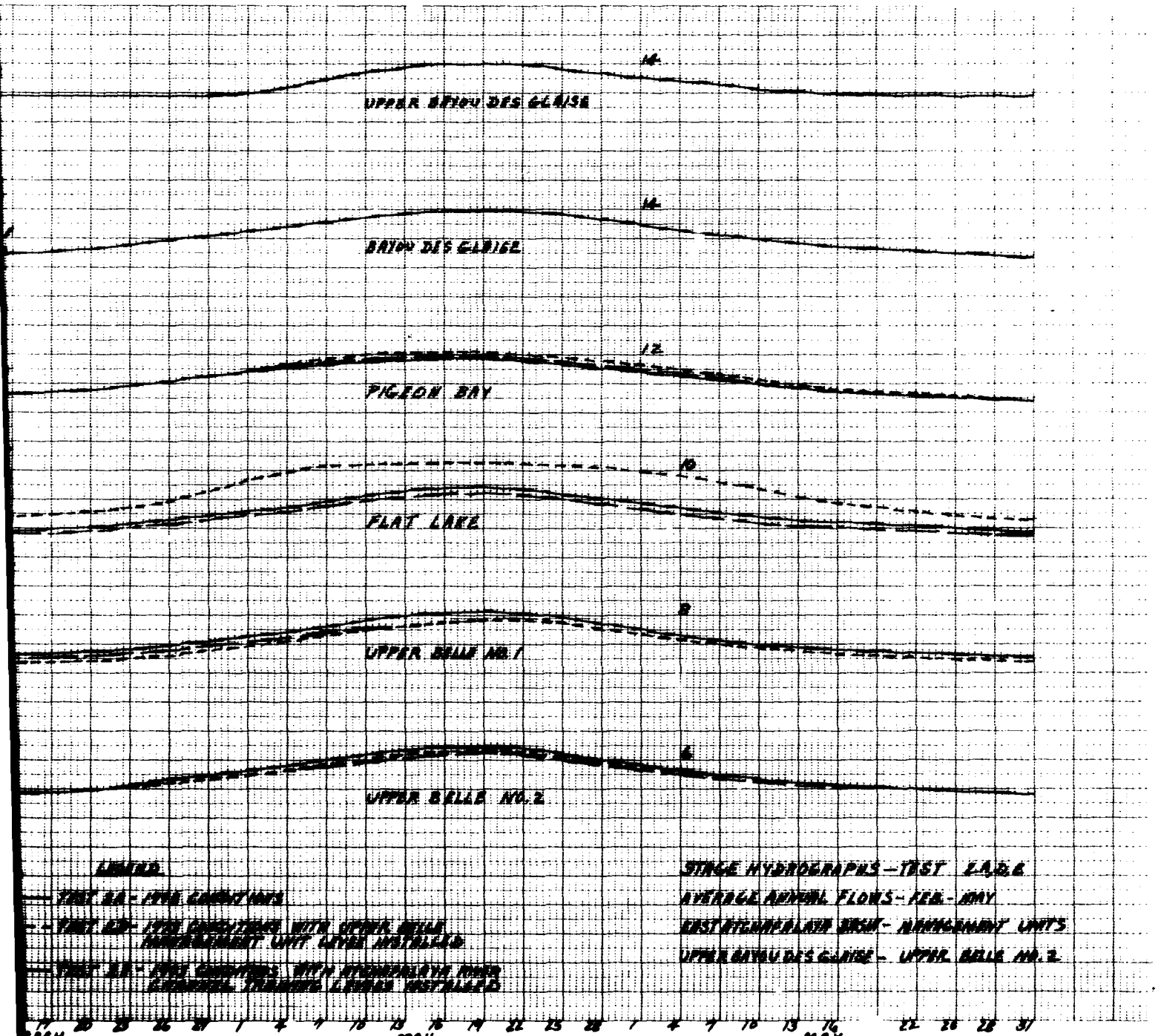
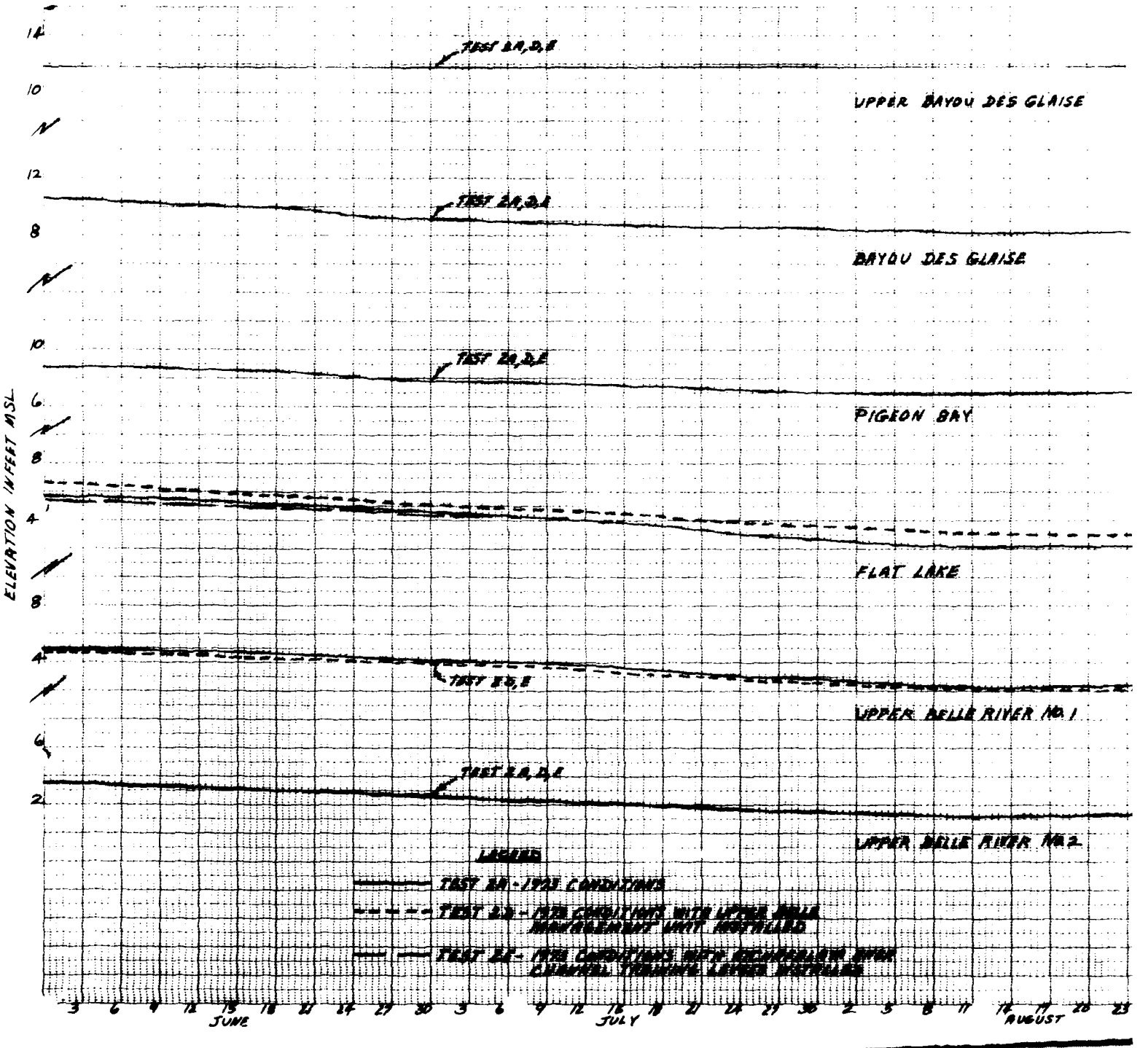

14
UPPER BAYOU DES GLAISE
14
BAYOU DES GLAISE
12
PIGEON BAY
10
FLAT LAKE
8
UPPER BELLE NO. 1
6
UPPER BELLE NO. 2
LEGEND
TEST 2A - FIVE CREEK MAPS
TEST 2B - FIVE CREEKS WITH UPPER BELLE MANAGEMENT UNIT OUTLET INSTALLED
TEST 3A - FIVE CREEKS WITH STRONGLAYTE RIVER DIVERSION THROUGH LOWER OUTFALLS
STAGE HYDROGRAPHS - TEST 2A & 2B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE NO. 2
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
MARCH
APRIL
MAY

PLATE 96


ELEVATION IN FEET MSL
14
10
12
8
10
6
8
4
8
4
6
2
TEST 2A, D, E
UPPER BAYOU DES GLAISE
TEST 2A, D, E
BAYOU DES GLAISE
TEST 2A, D, E
PIGEON BAY
FLAT LAKE
TEST 2B, E
UPPER BELLE RIVER NO. 1
TEST 2A, D, E
UPPER BELLE RIVER NO. 2
LEGEND
TEST 2A - 1973 CONDITIONS
TEST 2B - 1978 CONDITIONS WITH UPPER BELLE MOUNTAINHURST UNIT HOTFIELD
TEST 2E - 1978 CONDITIONS WITH RECHANNELIZATION OVER CURRENT TERMINUS LOWER HOTFIELD
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23
JUNE
JULY
AUGUST

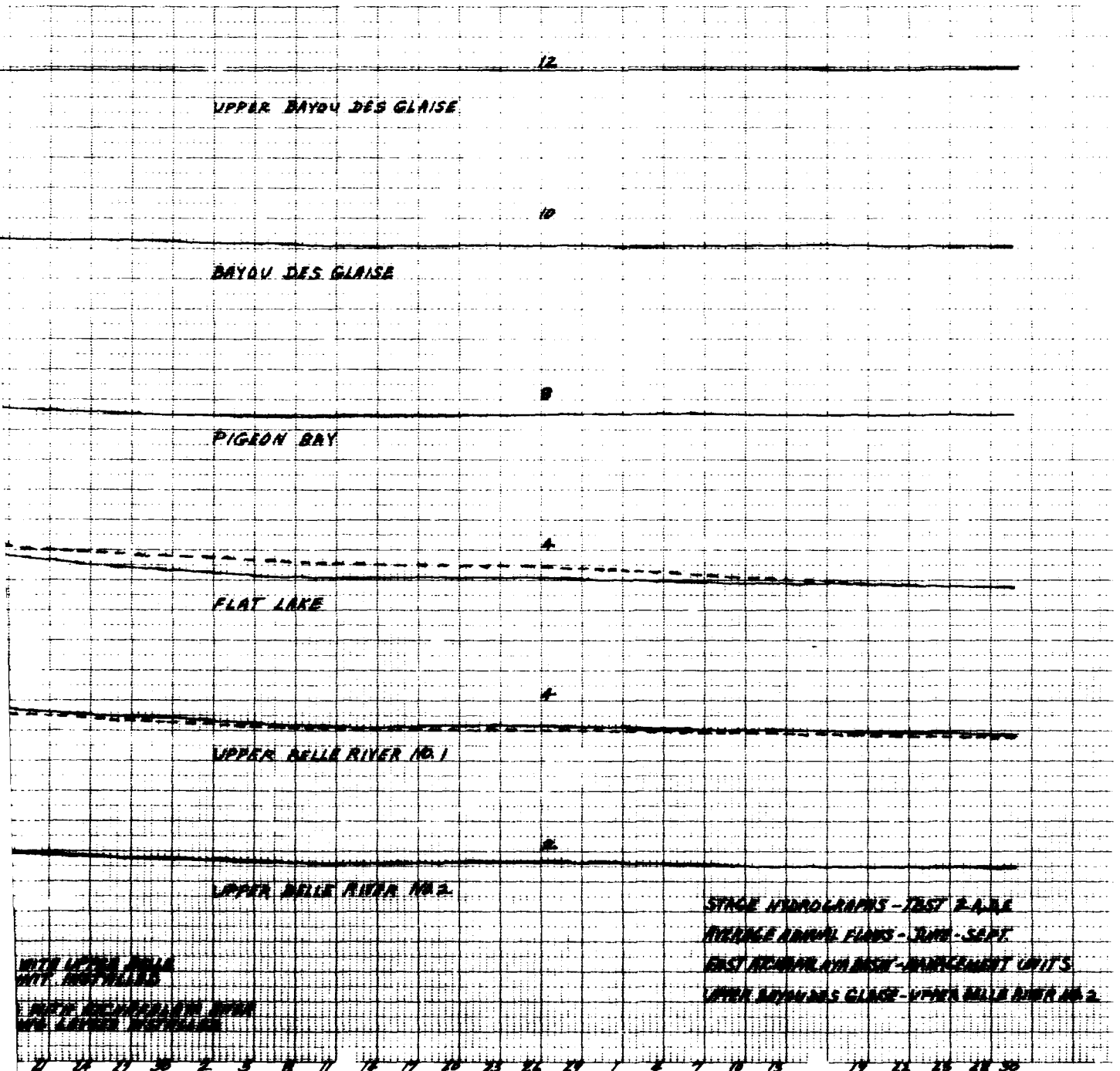
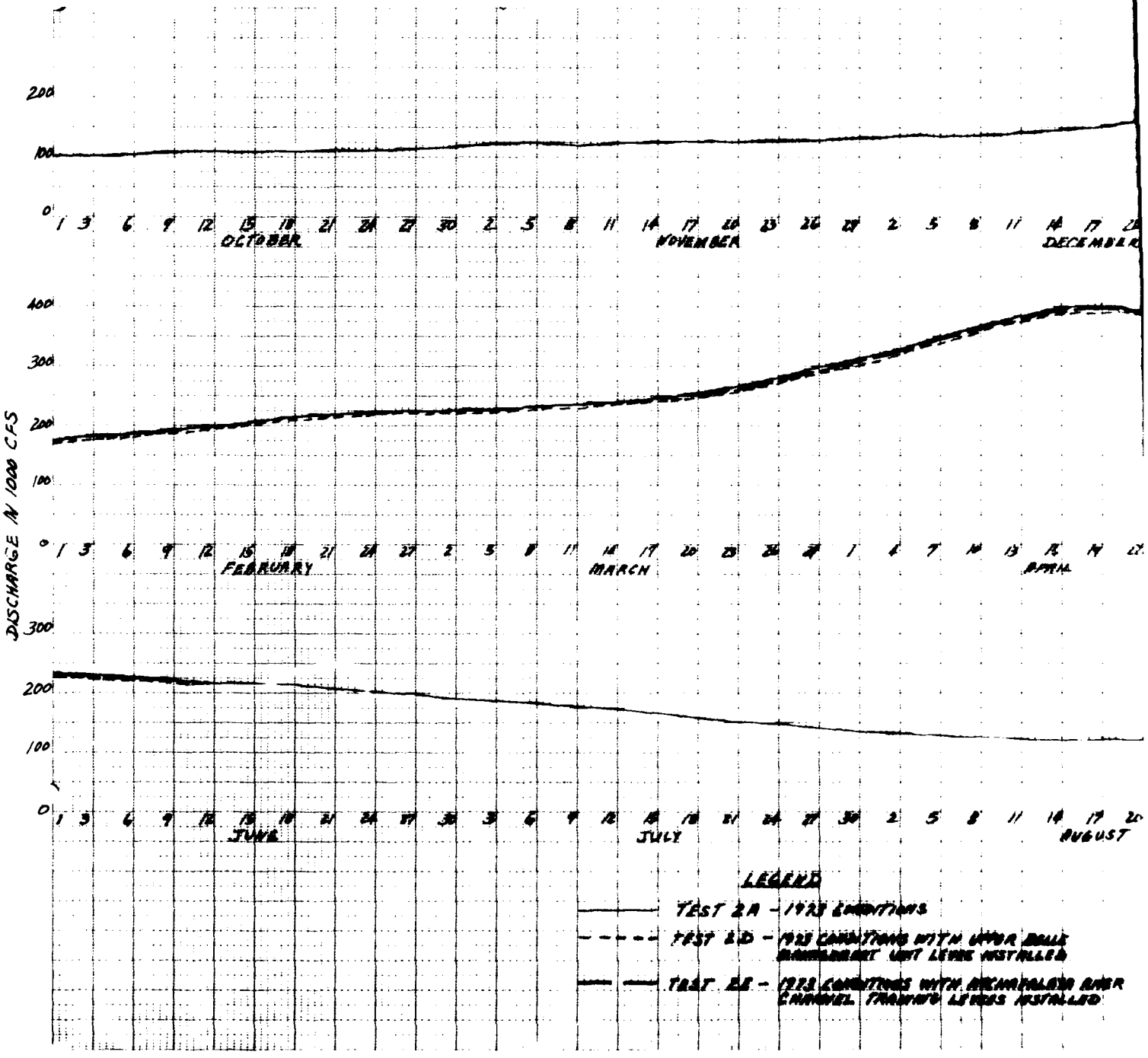
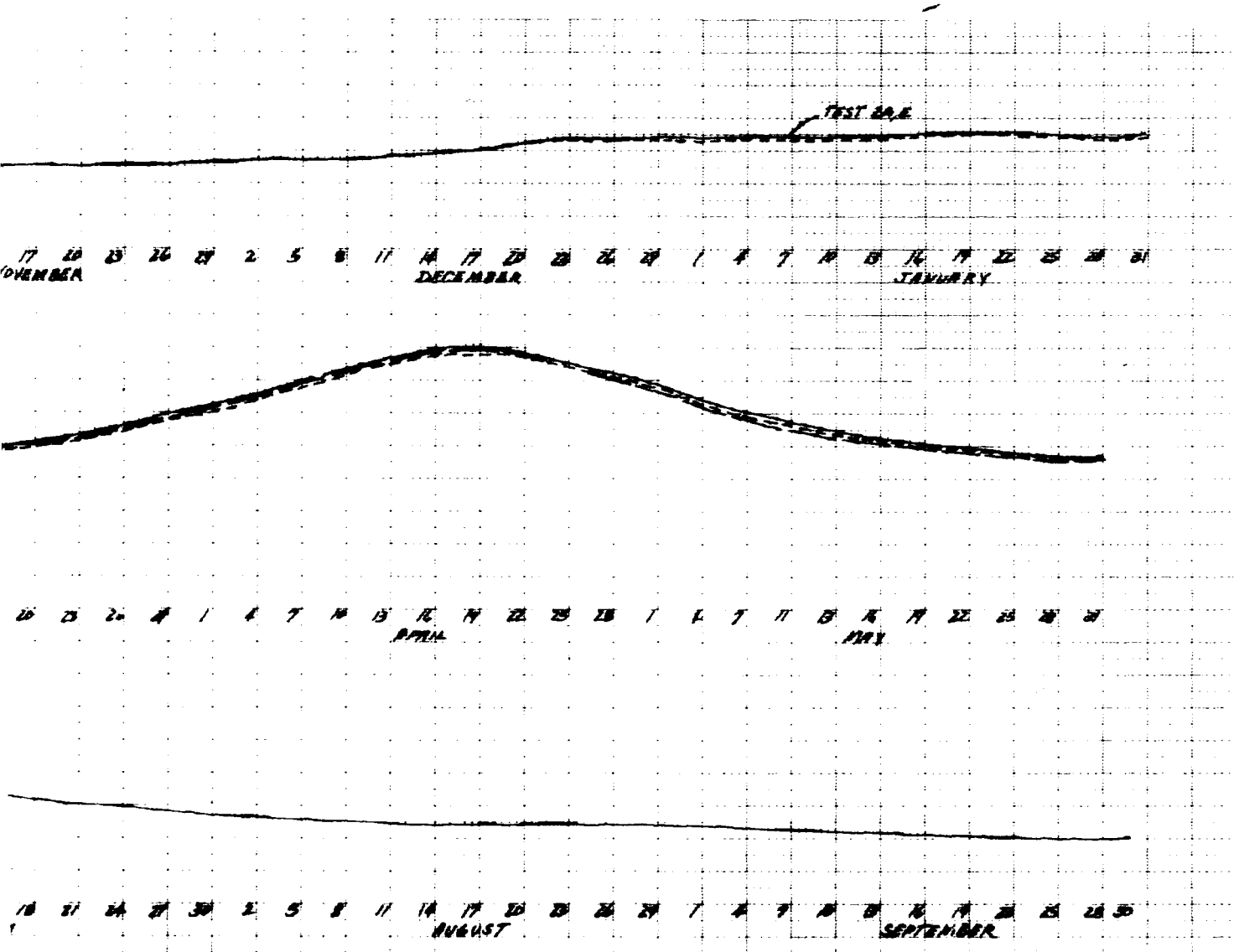

12
UPPER BAYOU DES GLAISE
10
BAYOU DES GLAISE
8
PIGEON BAY
4
FLAT LAKE
4
UPPER BELLE RIVER NO. 1
6
UPPER BELLE RIVER NO. 2
STAGE HYDROGRAPHS - TEST 2-A-RE
RECORDED ANNUAL FLOODS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN - MAINTENANCE UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2
22 24 29 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30
AUGUST
SEPTEMBER

PLATE 97


DISCHARGE IN 1000 CFS
200
100
0
1 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17
OCTOBER
NOVEMBER
DECEMBER
400
300
200
100
0
1 3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19
FEBRUARY
MARCH
APRIL
300
200
100
0
1 3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20
JUNE
JULY
AUGUST
LEGEND
TEST 2A - 1928 CONDITIONS
TEST 2D - 1928 CONDITIONS WITH UPPER MILLS EMBANKMENT AND LEVEE INSTALLED
TEST 2E - 1928 CONDITIONS WITH RECTANGULAR INNER CHANNEL TRAINING LEVEES INSTALLED



LEGEND

TEST 2A – 1928 CONDITIONS

TEST 2B – 1928 CONDITIONS WITH LOWER DELTA DISTRIBUTARY UNIT LEVEE INSTALLED

TEST 2E – 1928 CONDITIONS WITH ATCHAFALAYA RIVER CHANNEL FLOODWAY LEVEES INSTALLED

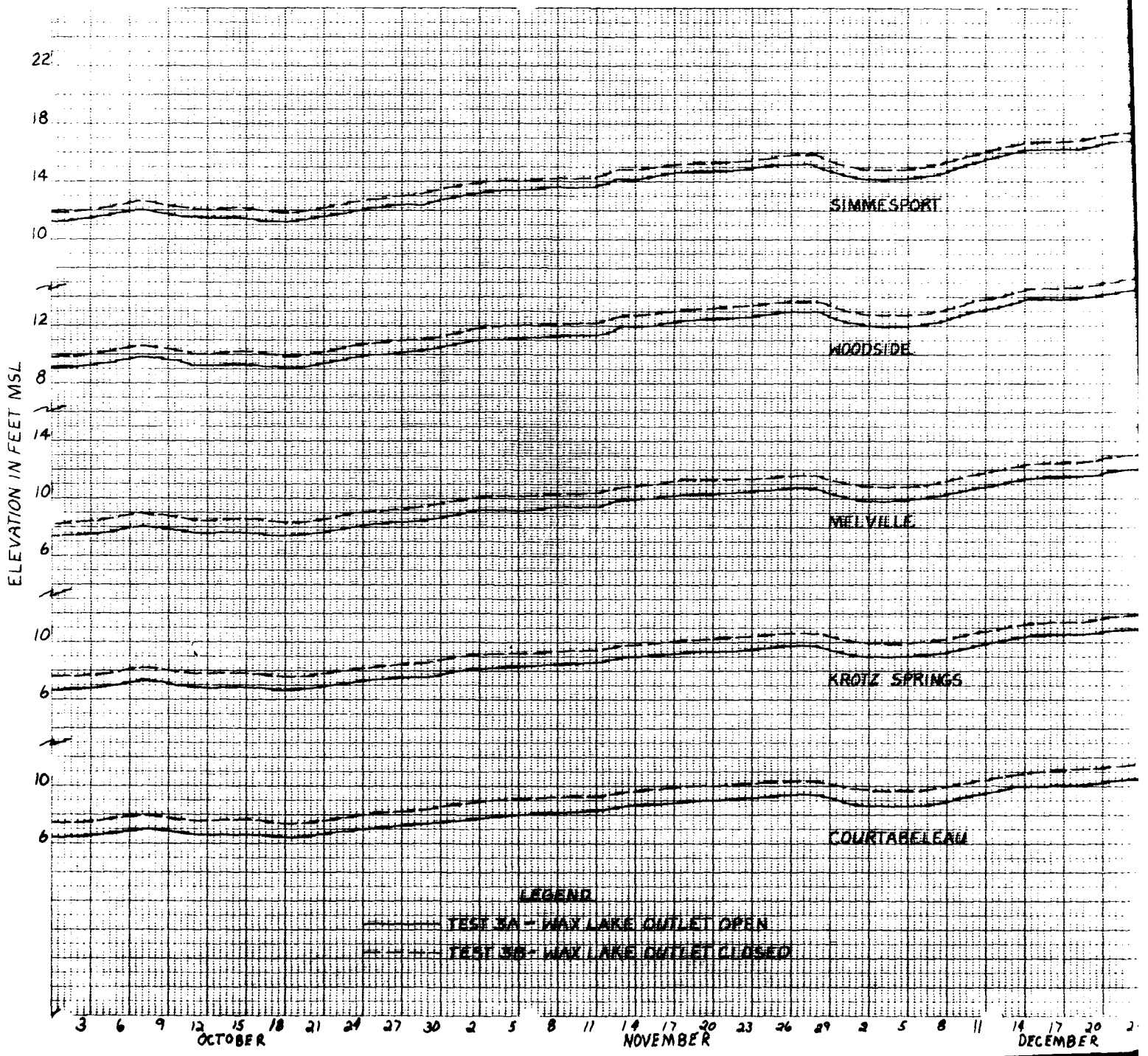
DISCHARGE HYDROGRAPHS-TEST 2A,B,E

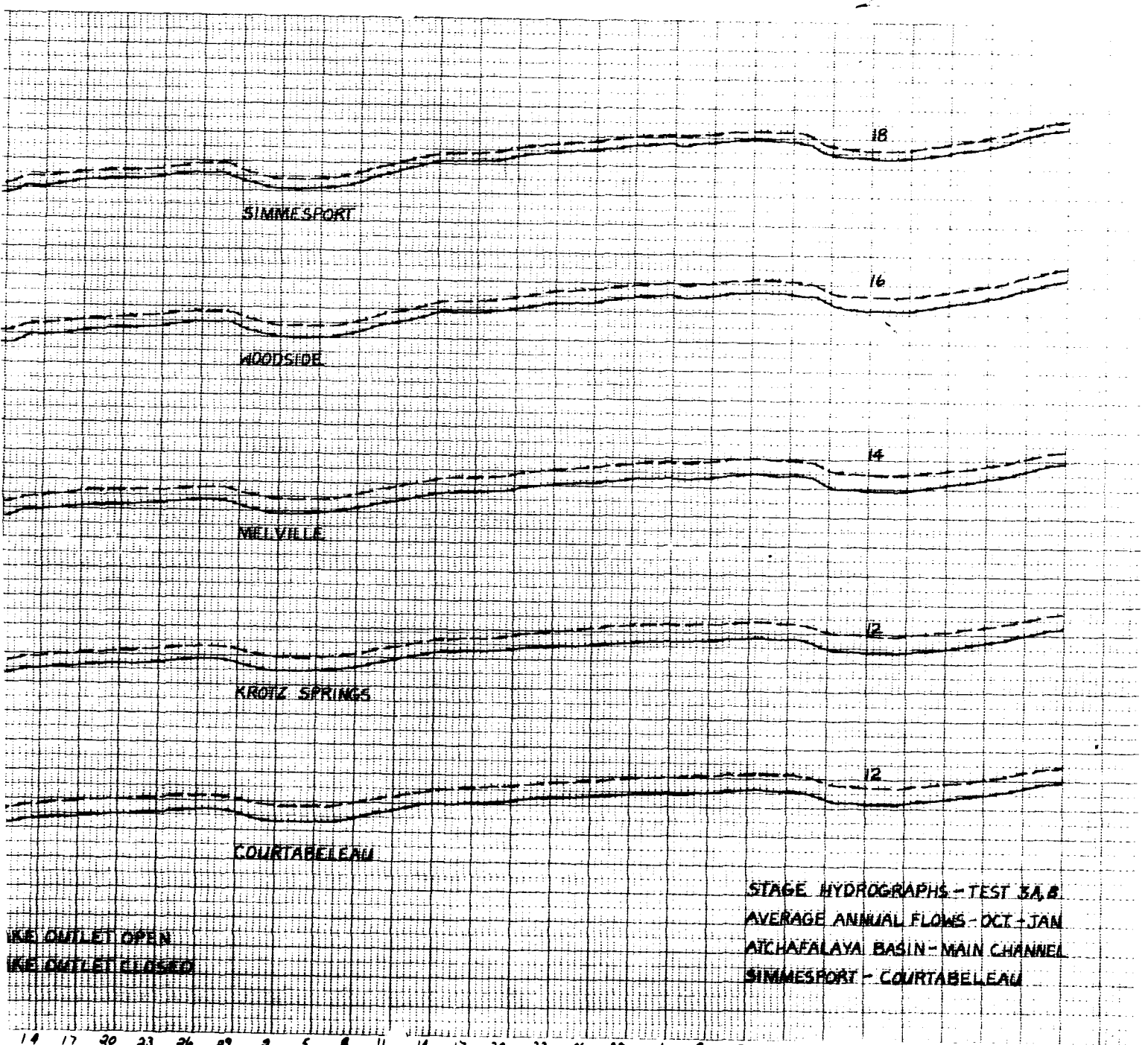
AVERAGE ANNUAL FLOWS - OCT. - SEPT.

ATCHAFALAYA BAY

EUGENE ISLAND, LA.

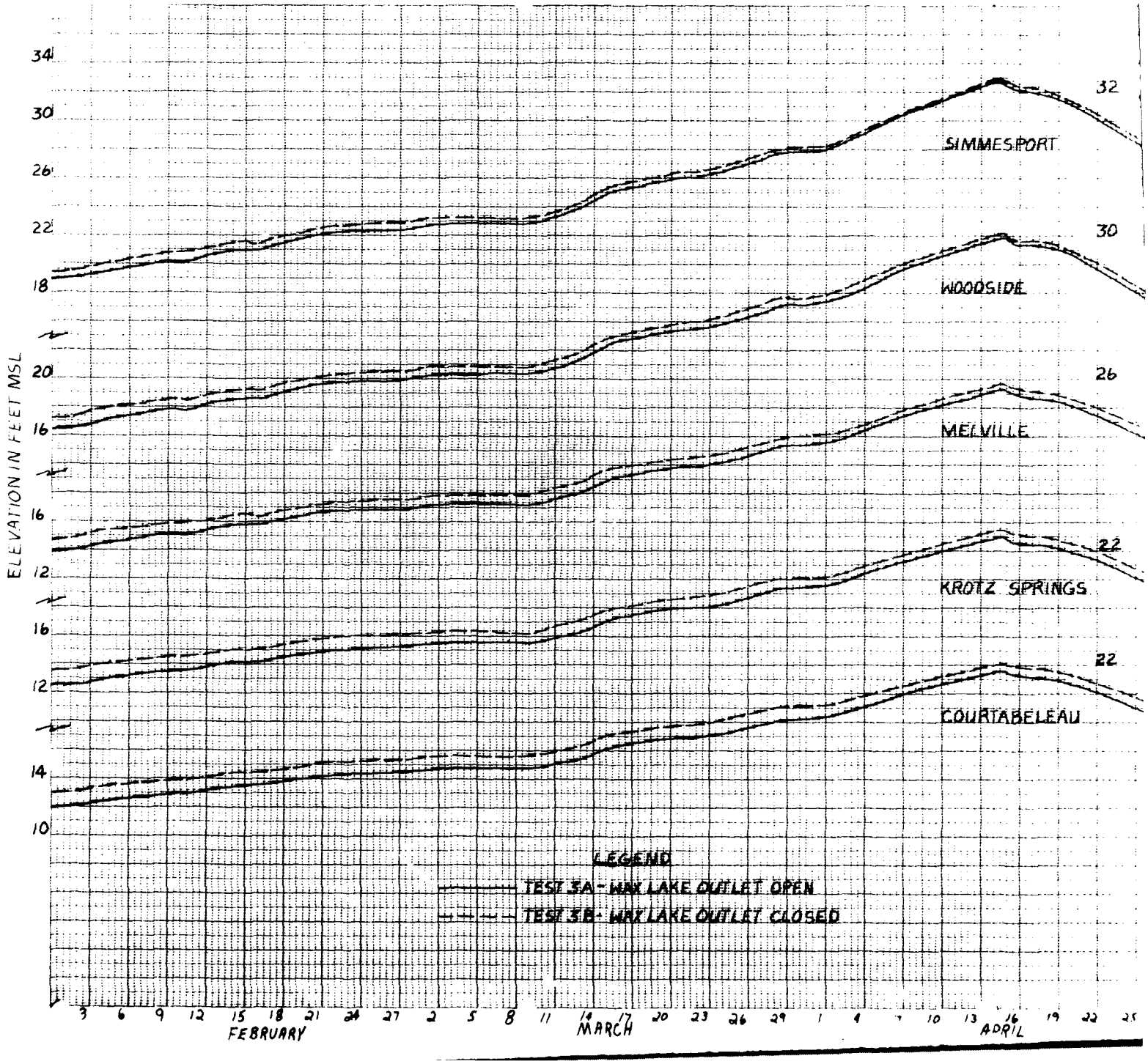
PLATE 98


ELEVATION IN FEET MSL
22
18
14
10
12
8
14
10
6
10
6
10
6
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABLEAU
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER



STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU

PLATE 99


ELEVATION IN FEET MSL
34
30
26
22
18
20
16
12
16
12
14
10
32
SIMMESPORT
30
WOODSIDE
26
MELVILLE
22
KROTZ SPRINGS
22
COURTABELEAU
LEGEND
TEST 5A - WAX LAKE OUTLET OPEN
TEST 5B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25
FEBRUARY
MARCH
APRIL

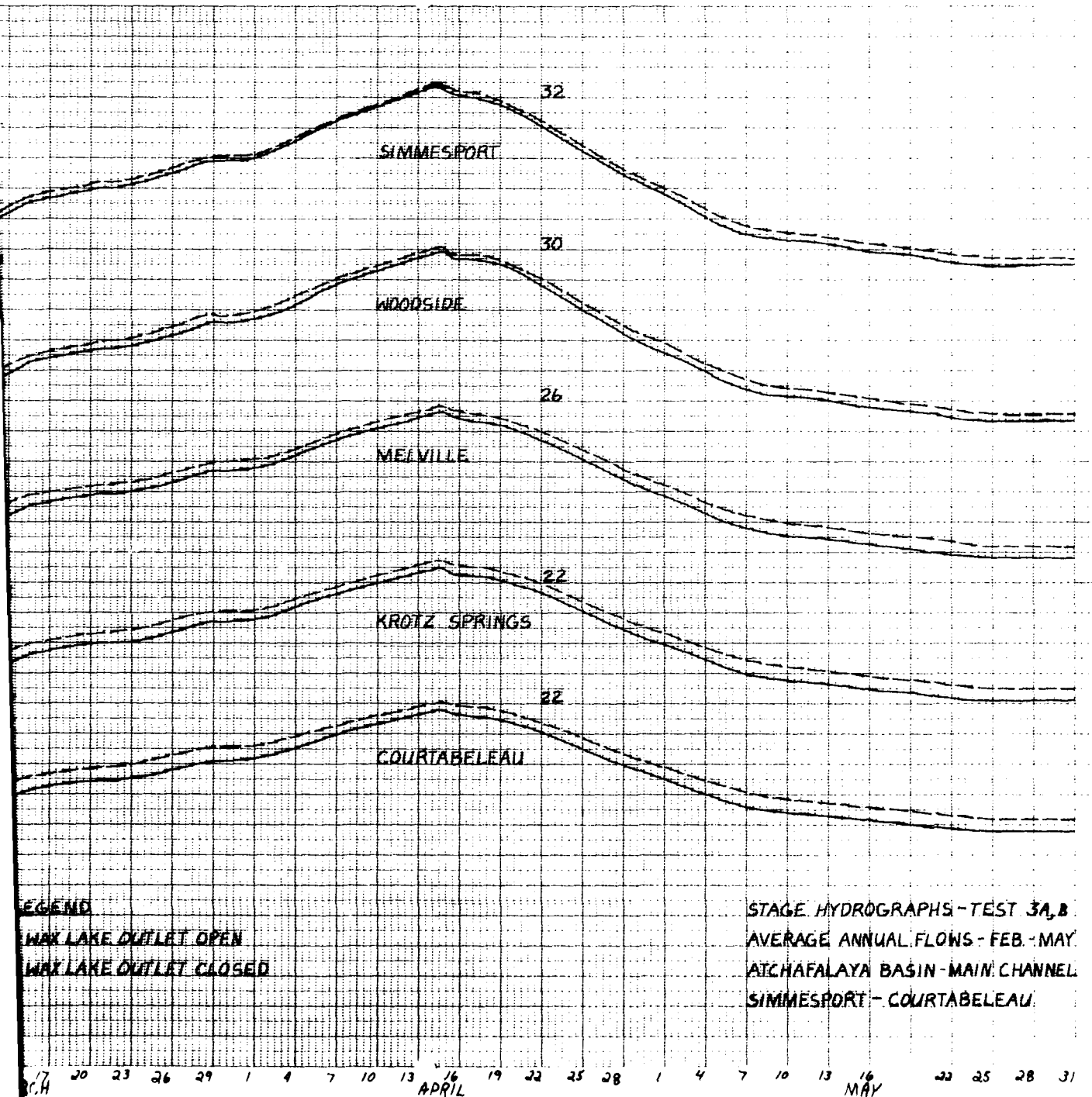
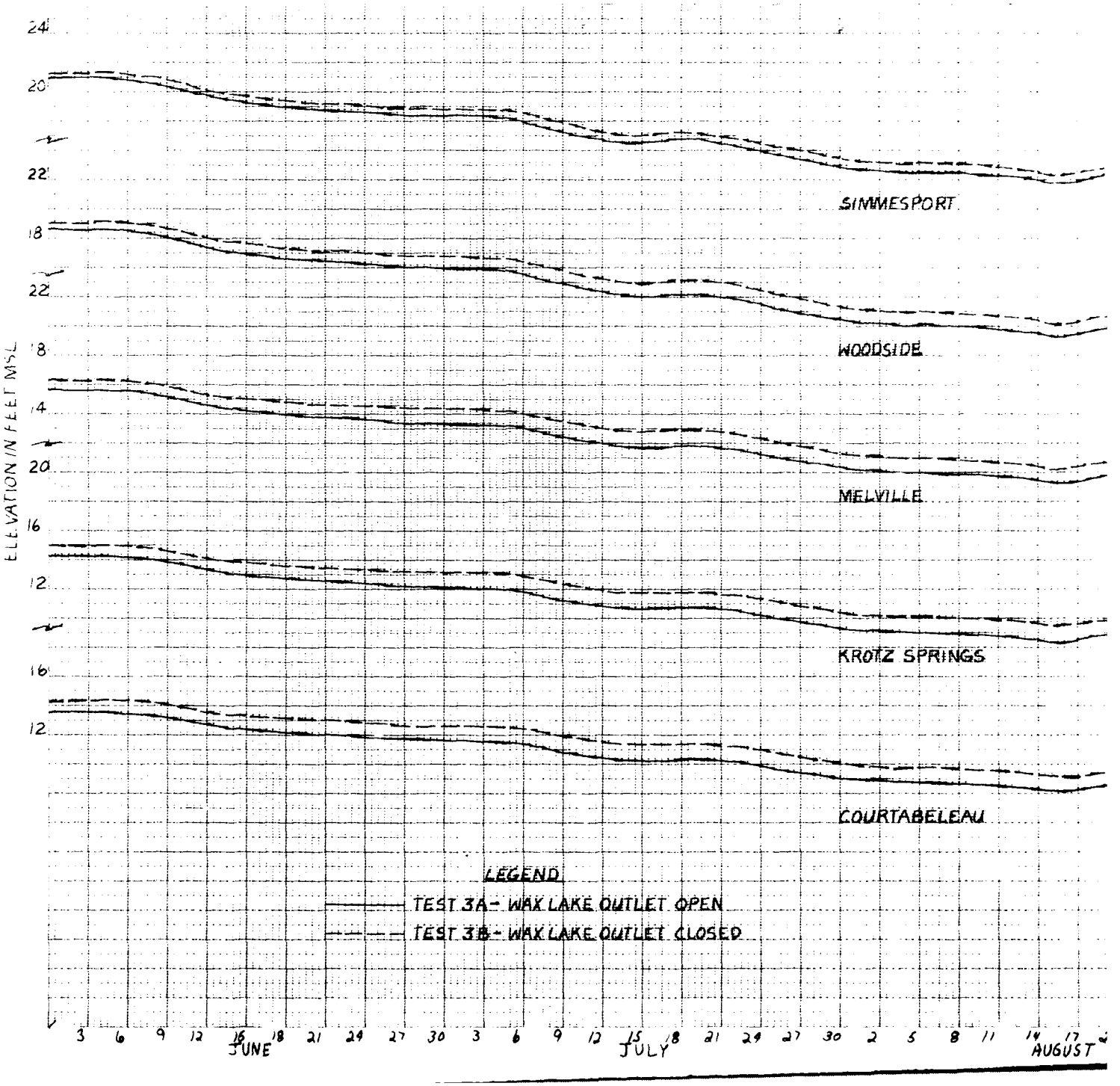

32
SIMMESPORT
30
WOODSIDE
26
MELVILLE
22
KROTZ SPRINGS
22
COURTABELEAU
LEGEND
WAX LAKE OUTLET OPEN
WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB. - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
17
20
23
26
29
1
4
7
10
13
16
19
22
25
28
1
4
7
10
13
16
22
25
28
31
APRIL
MAY

PLATE 100


ELEVATION IN FEET MSL
24
20
22
18
22
18
14
20
16
12
16
12
SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABELEAU
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

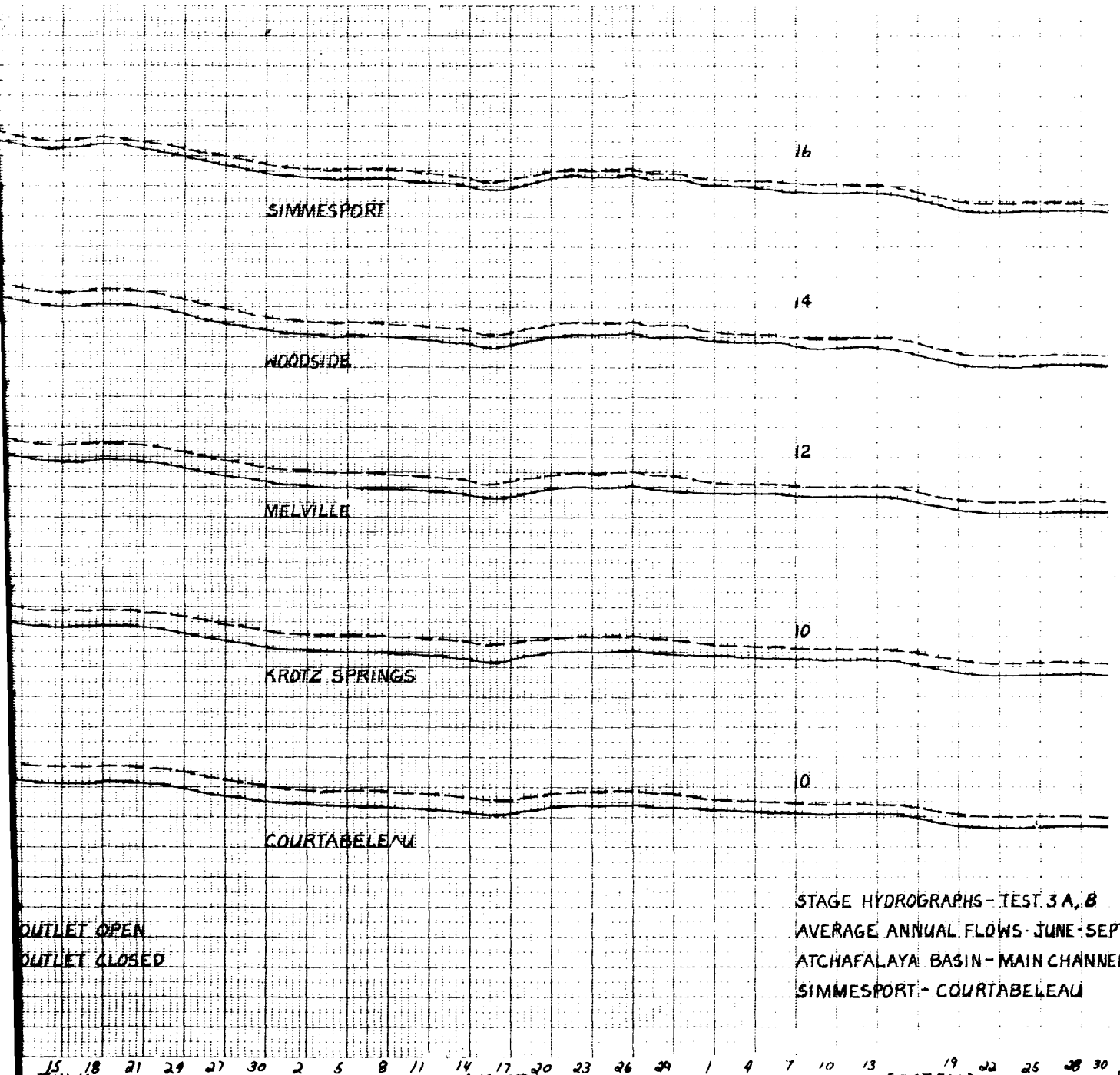
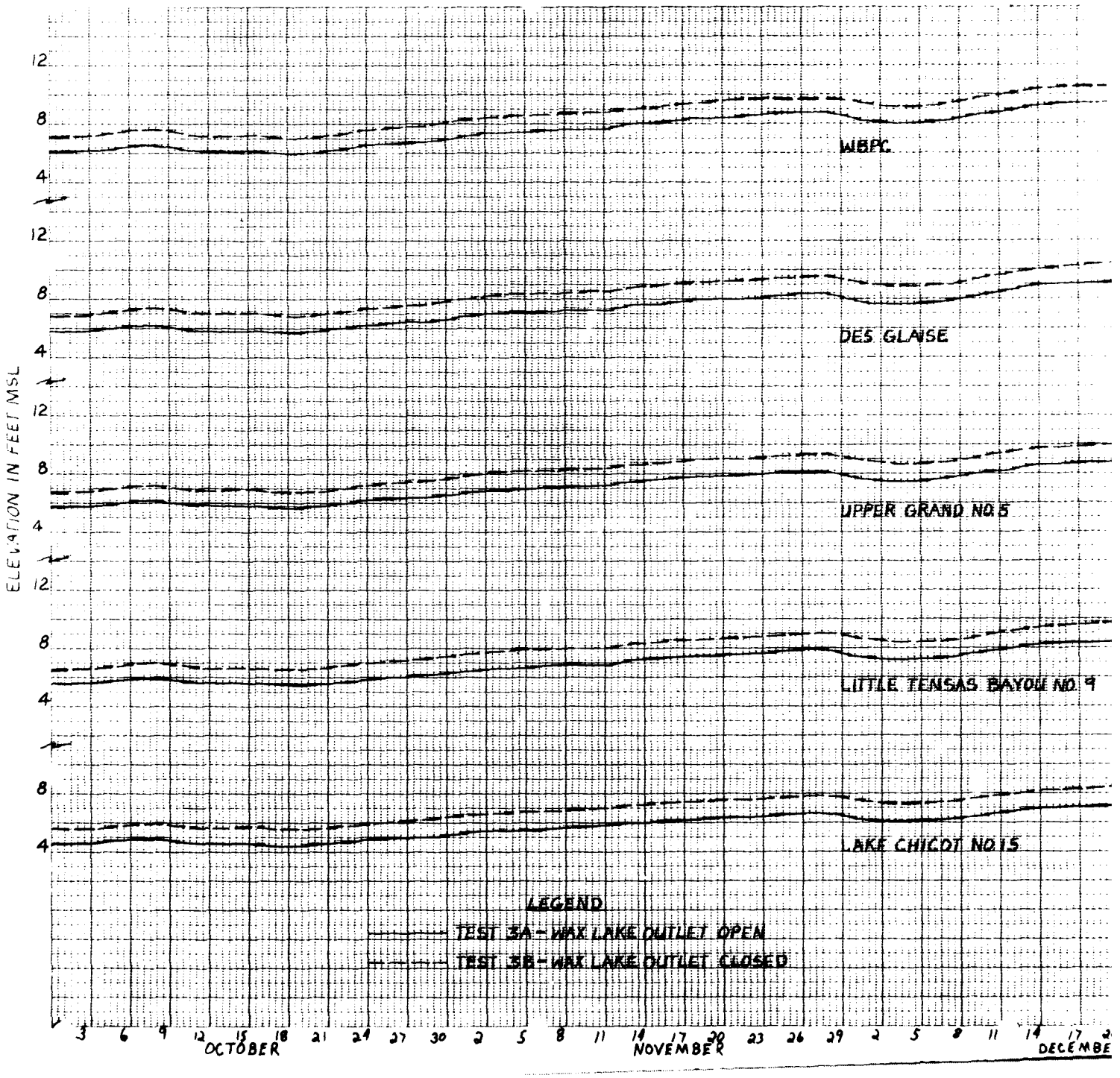

16
SIMMESPORT
14
WOODSIDE
12
MELVILLE
10
KROTZ SPRINGS
10
COURTABELEAU
OUTLET OPEN
OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3 A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 101


ELEVATION IN FEET MSL
12
8
4
WBPC
DES GLAISE
UPPER GRAND NO 5
LITTLE TENSAS BAYOU NO 9
LAKE CHICOT NO 15
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17
DECEMBE

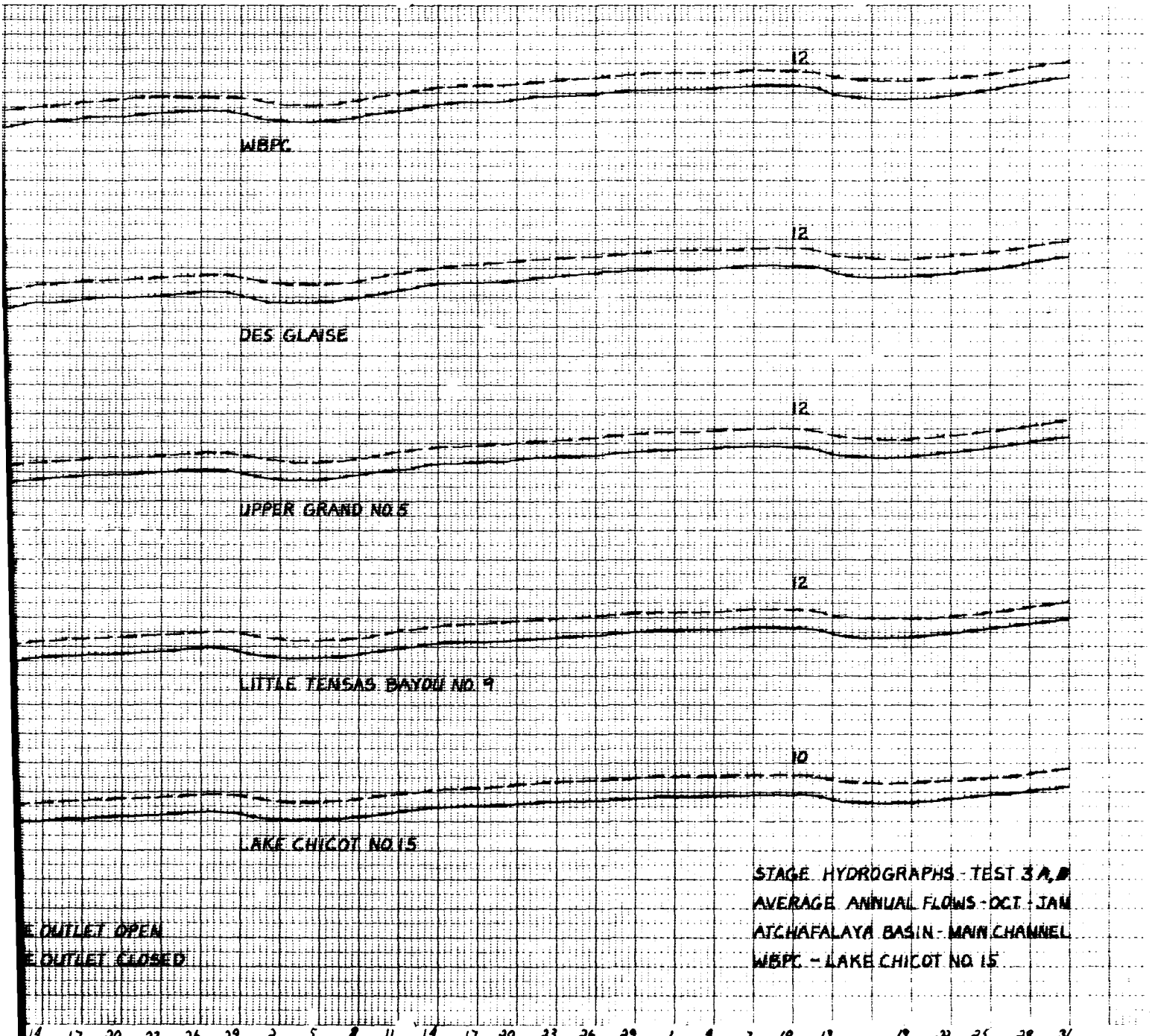
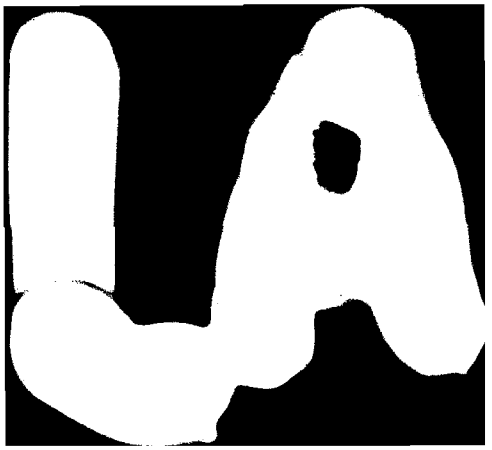
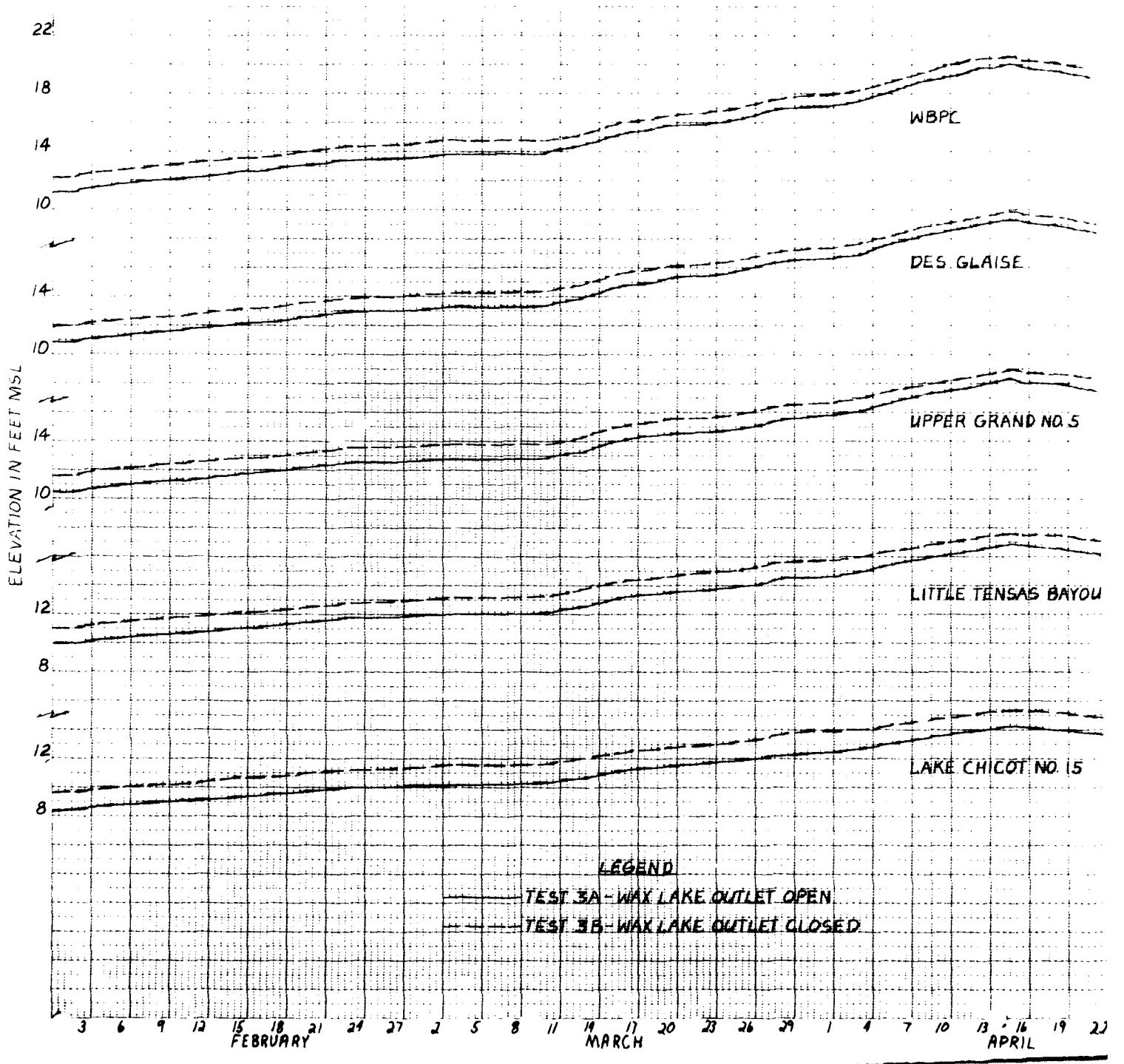
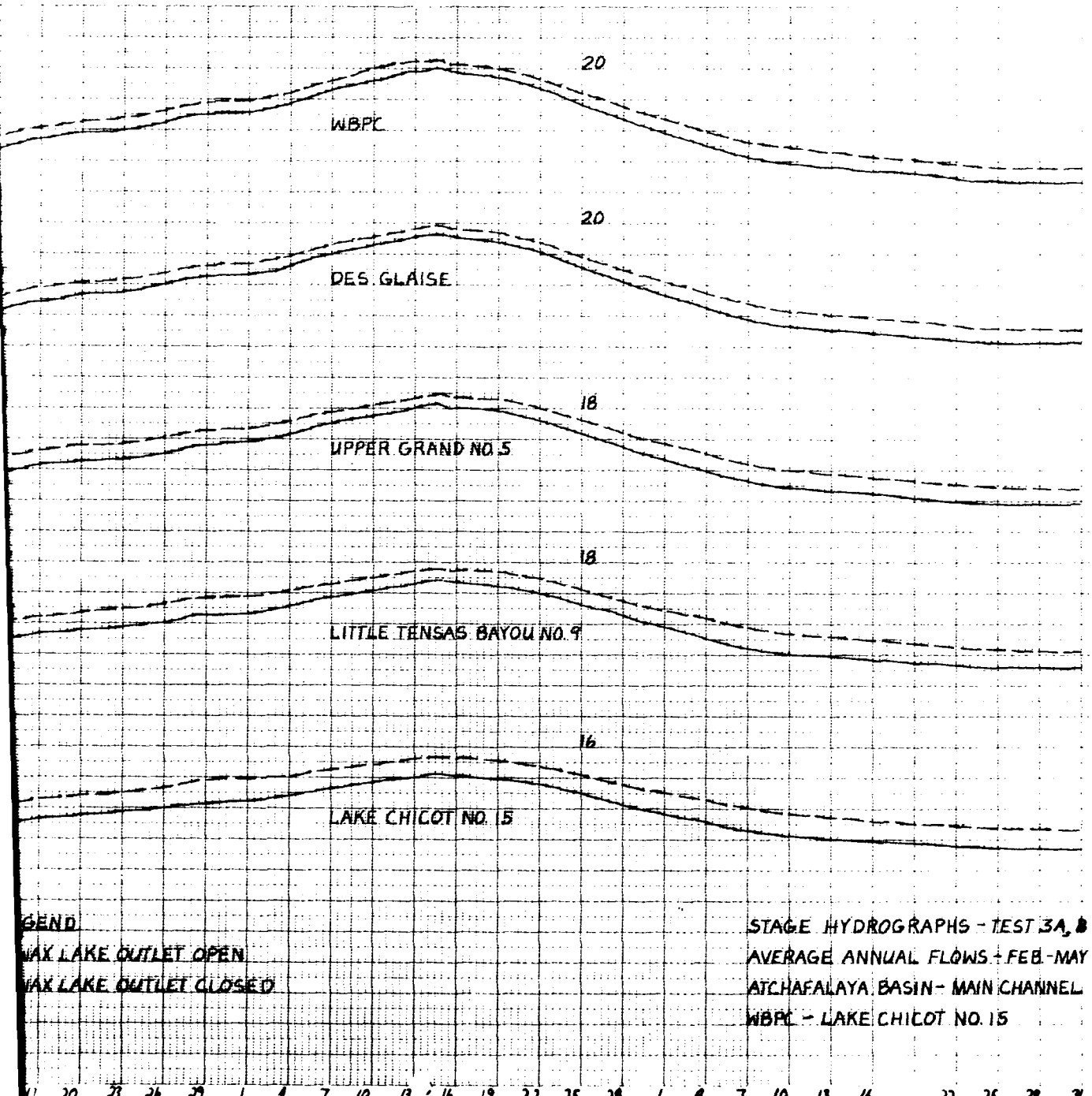

12
WBPC
12
DES GLAISE
12
UPPER GRAND NO.5
12
LITTLE TENSAS BAYOU NO. 9
10
LAKE CHICOT NO.15
STAGE HYDROGRAPHS - TEST 3 A, B
AVERAGE ANNUAL FLOWS - OCT - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
E OUTLET OPEN
E OUTLET CLOSED
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 102



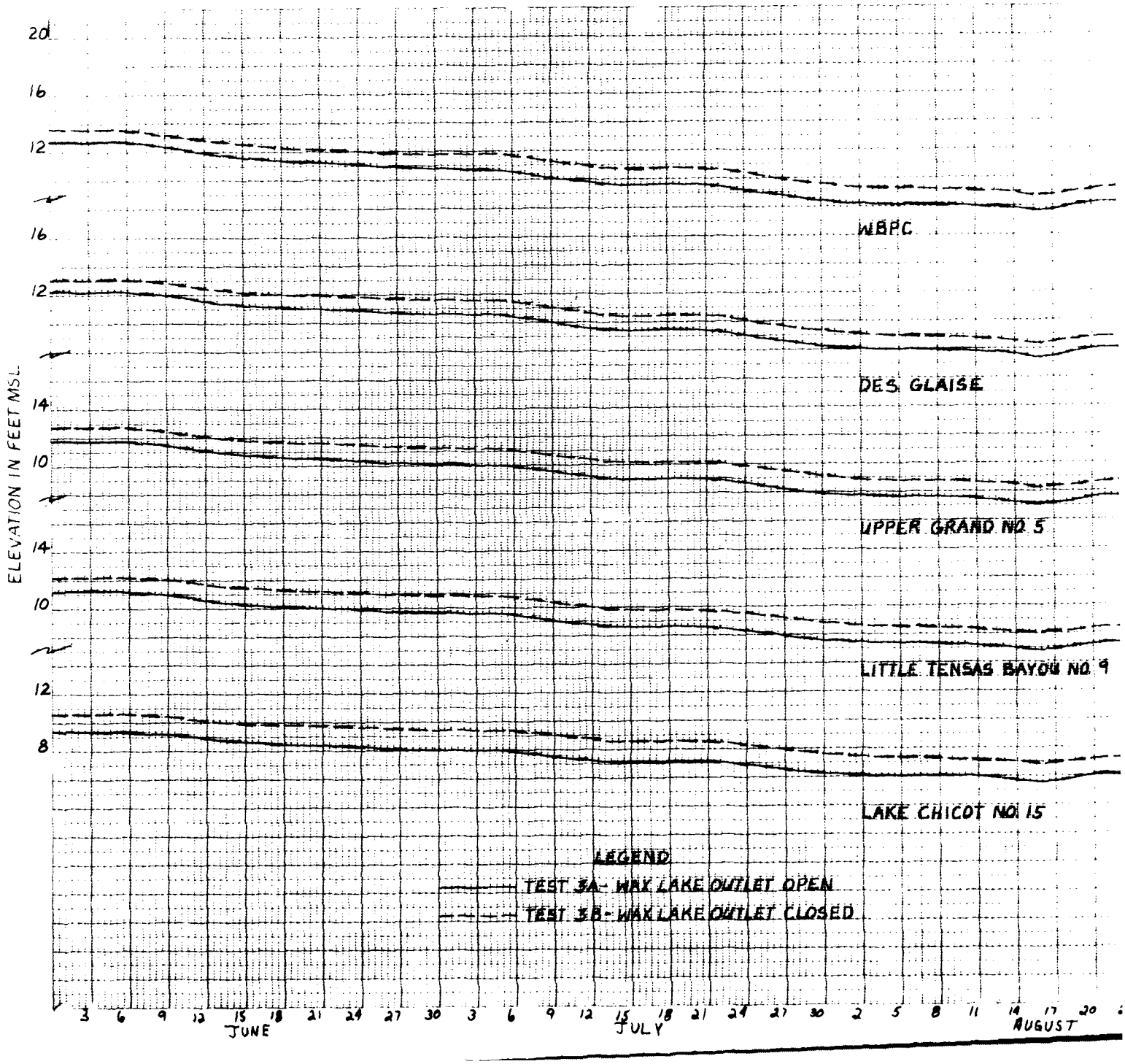

ELEVATION IN FEET MSL
22
18
14
10
14
10
14
10
12
8
12
8
WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU
LAKE CHICOT NO. 15
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22
APRIL

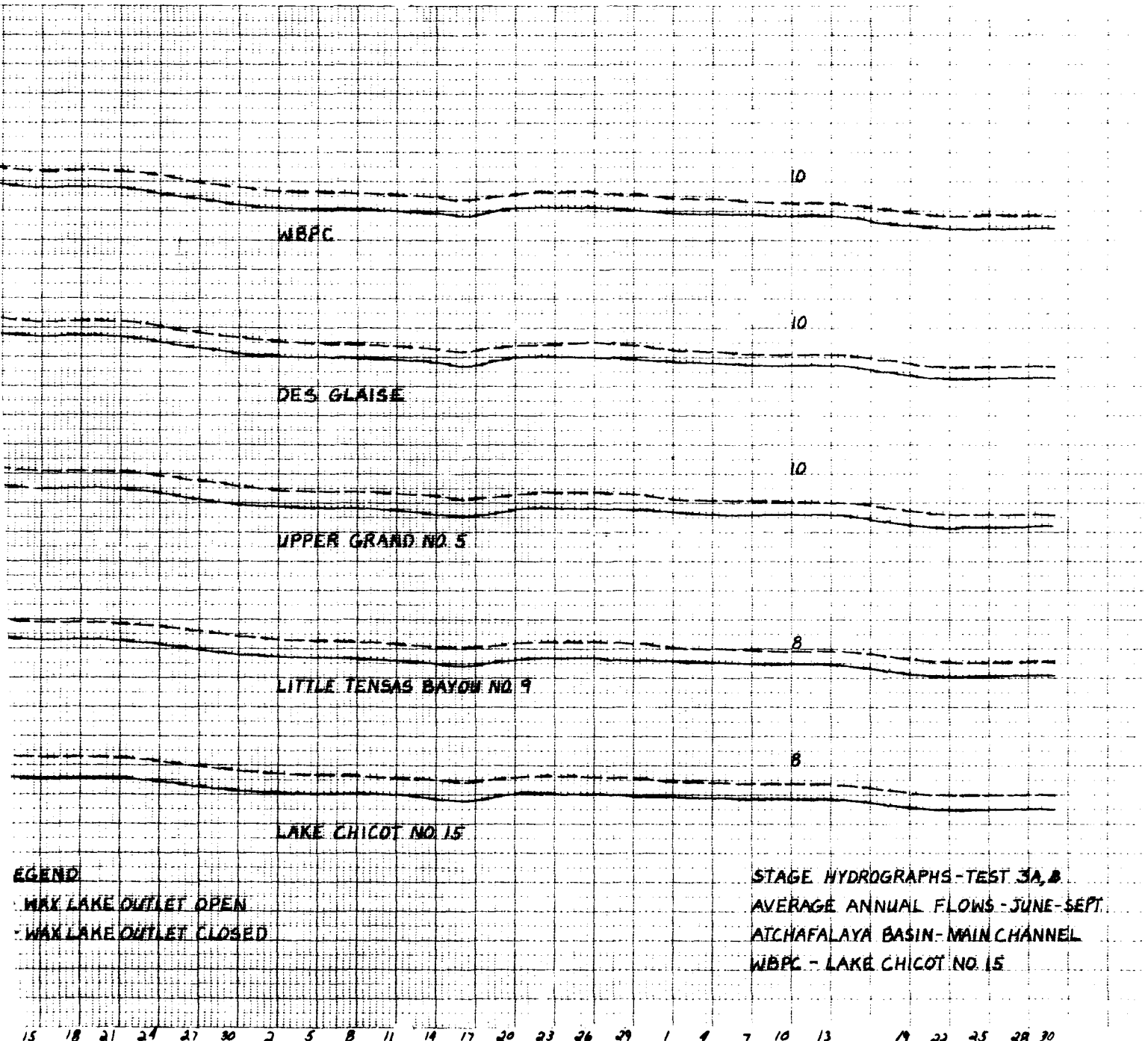


LEGEND
WAX LAKE OUTLET OPEN
WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB-MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15

PLATE 103

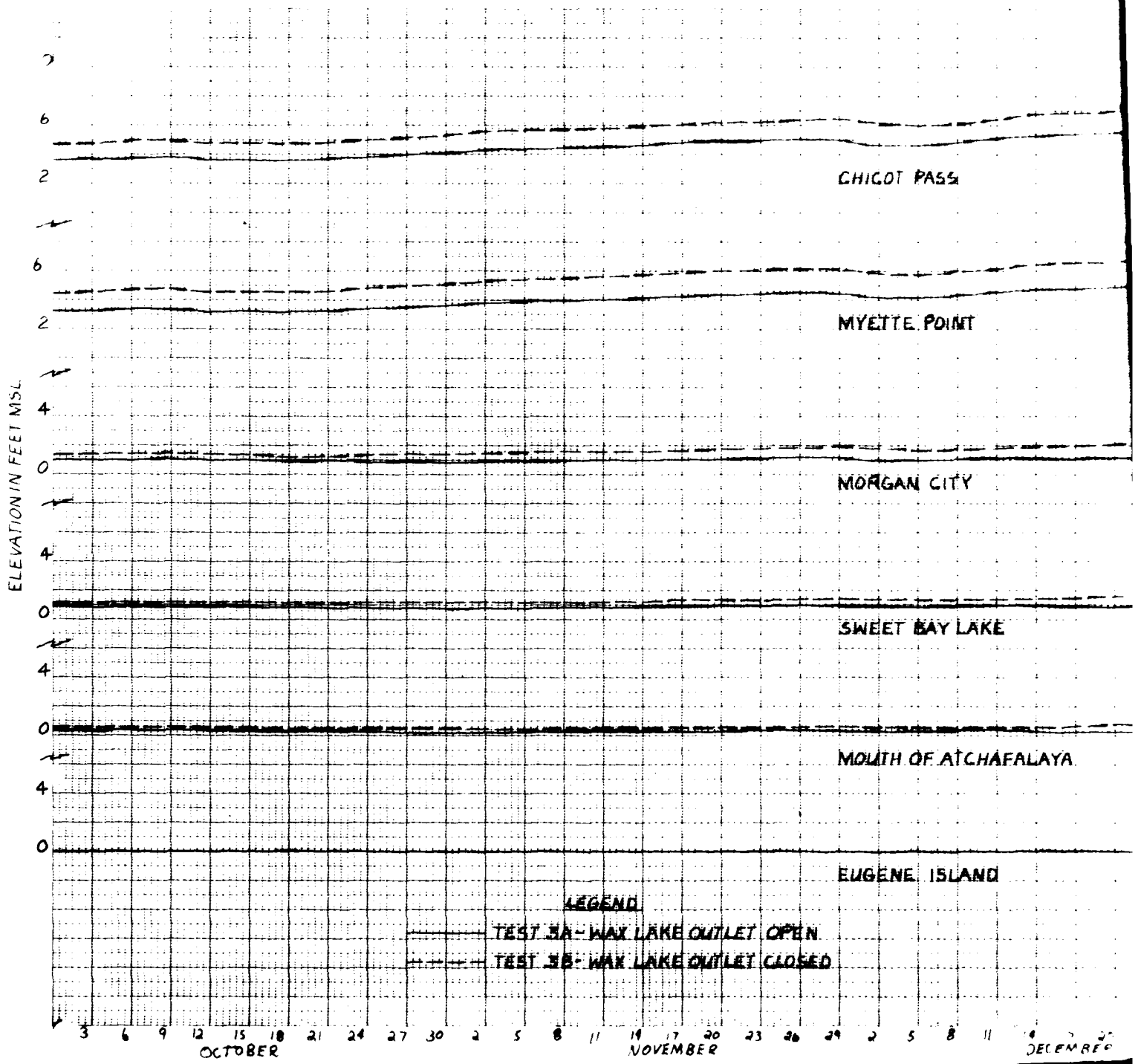

ELEVATION IN FEET MSL.
20
16
12
16
12
14
10
14
10
12
8
WBPC
DES GLAISE
UPPER GRAND NO 5
LITTLE TENSAS BAYOU NO 9
LAKE CHICOT NO 15
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

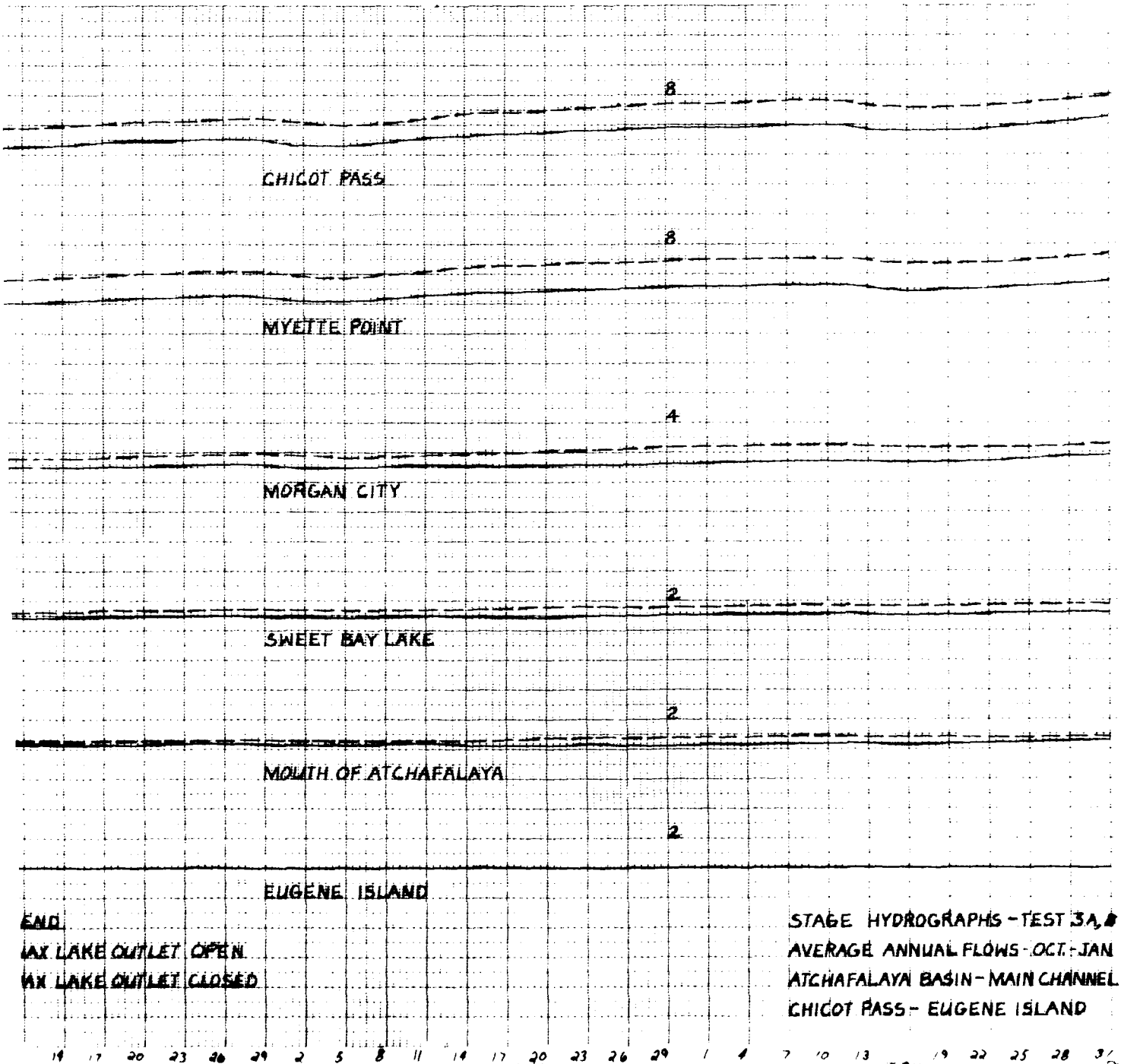


EGEND
WAX LAKE OUTLET OPEN
WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15

PLATE 104

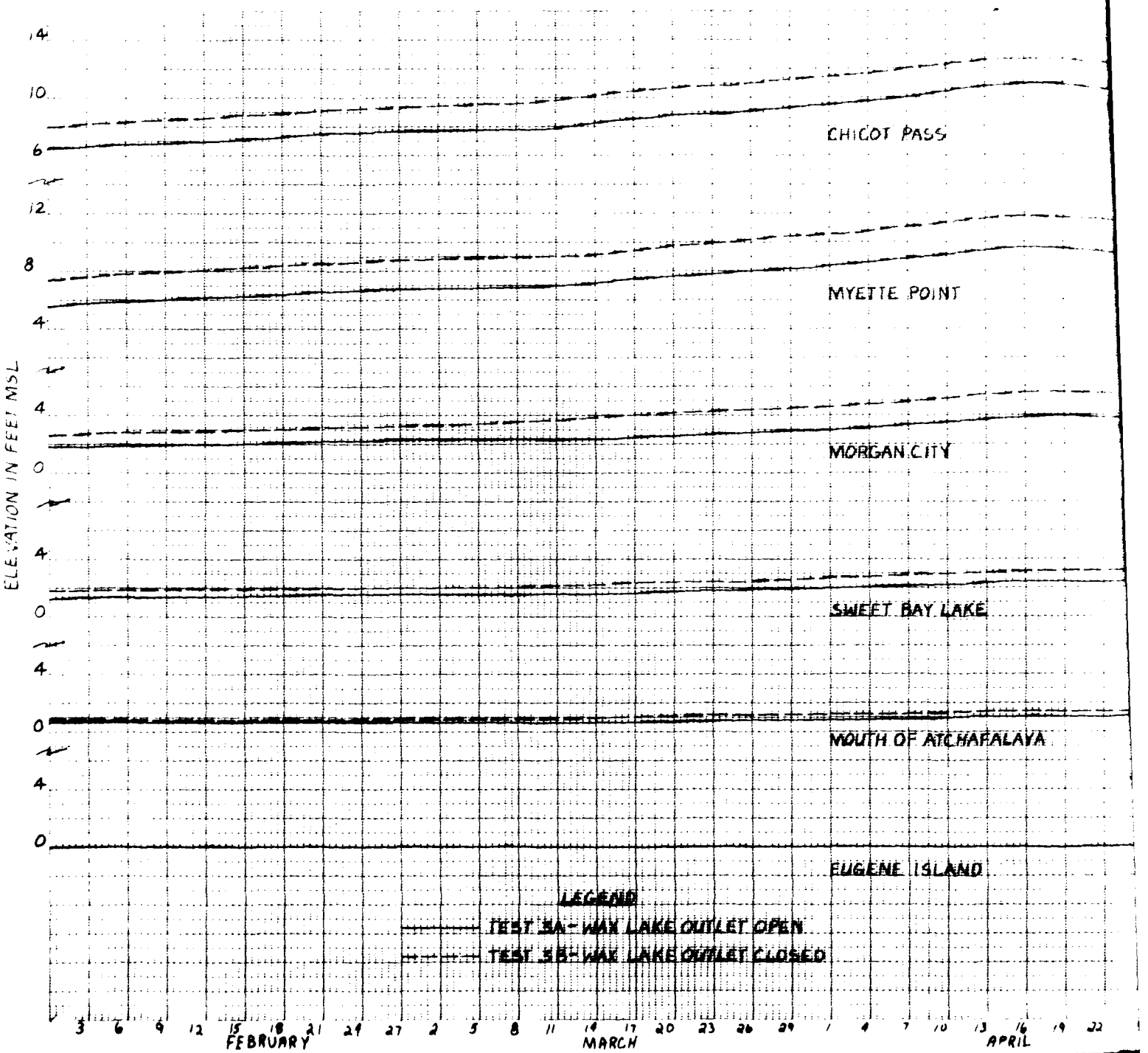

ELEVATION IN FEET MSL
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 5A - WAX LAKE OUTLET OPEN
TEST 5B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER



END
AX LAKE OUTLET OPEN
AX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND

PLATE 25


ELEVATION IN FEET MSL
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 5A- WAX LAKE OUTLET OPEN
TEST 5B- WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

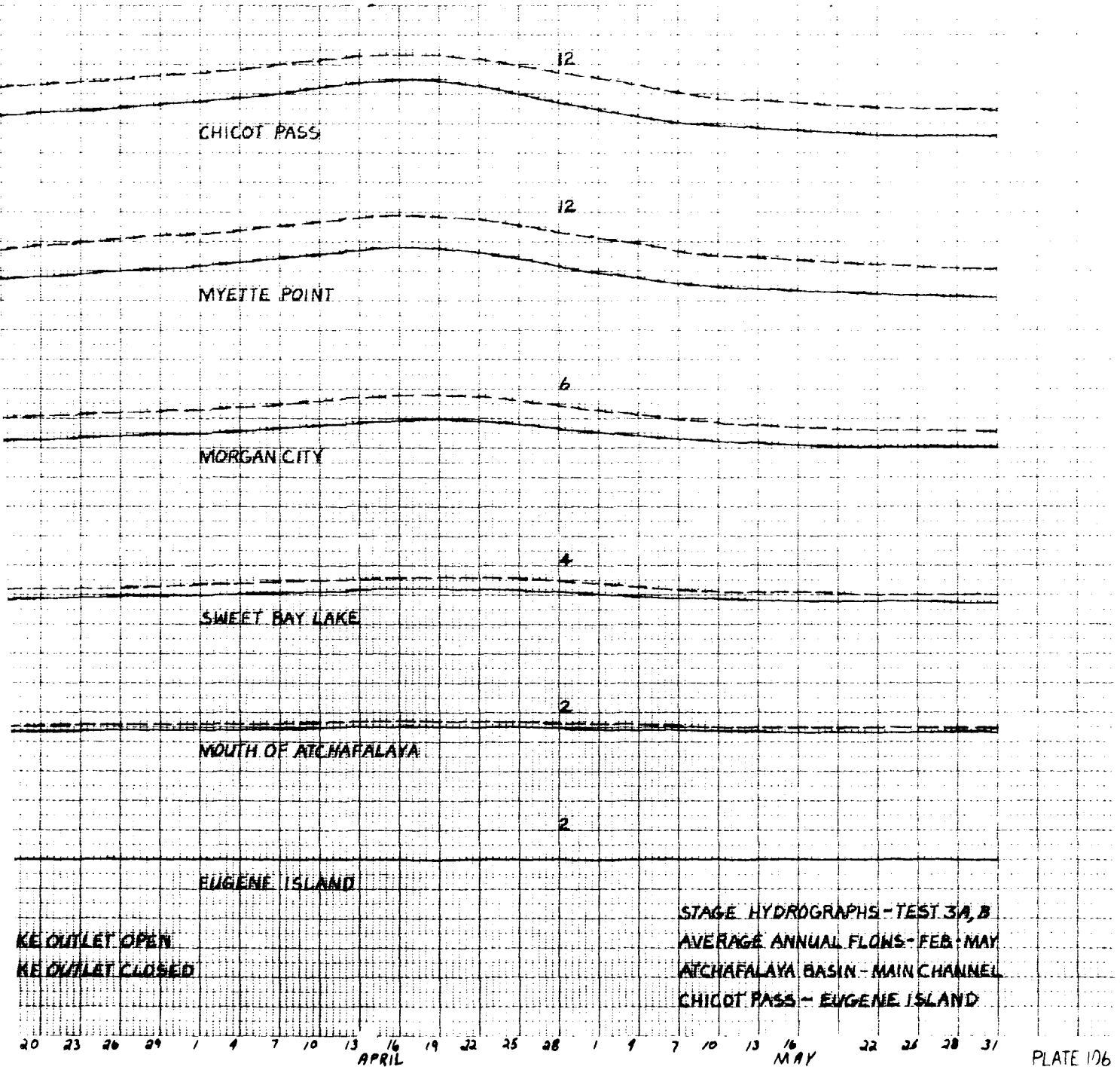
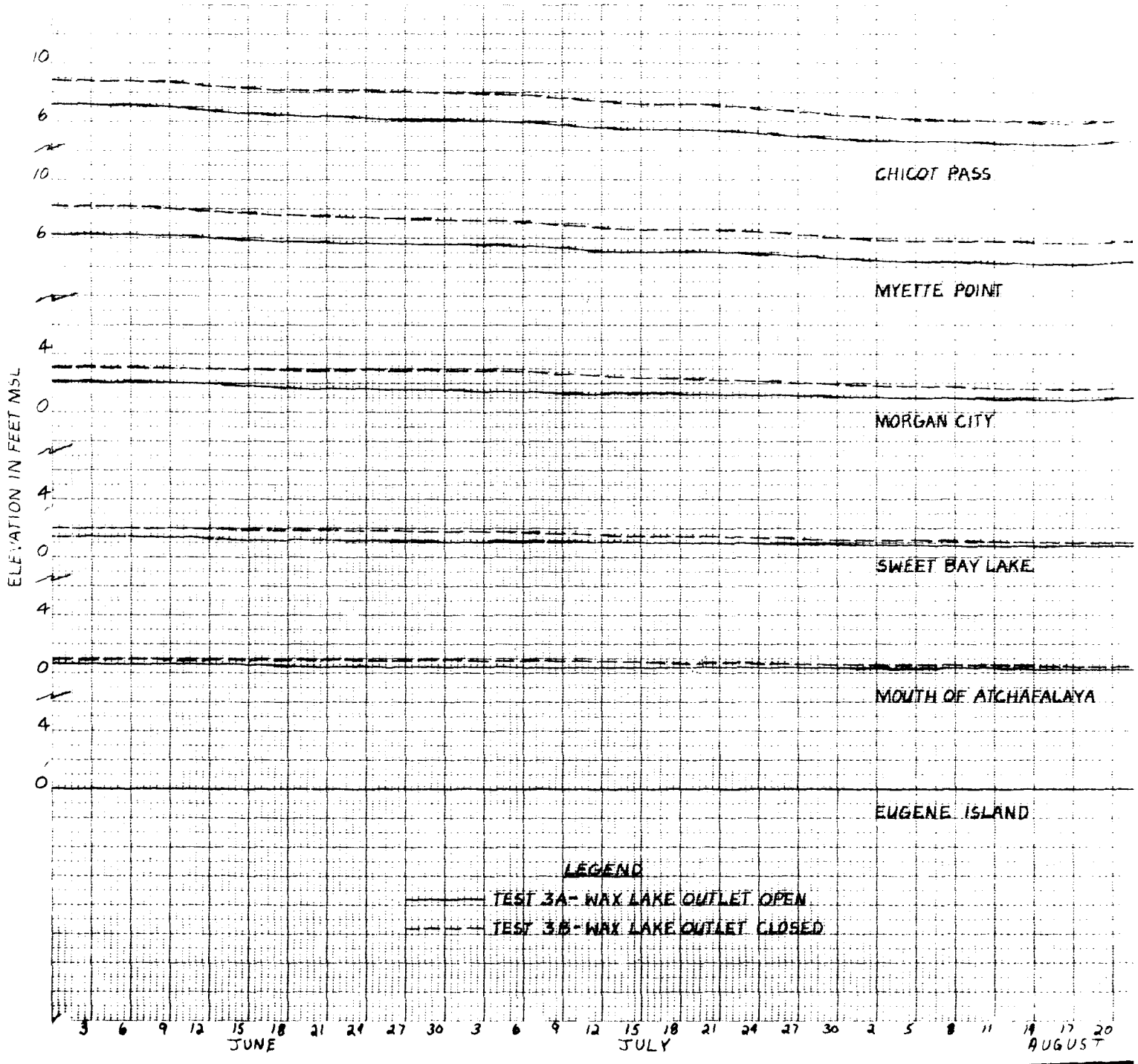

12
CHICOT PASS
12
MYETTE POINT
6
MORGAN CITY
4
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
2
EUGENE ISLAND
KE OUTLET OPEN
KE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE 106


ELEVATION IN FEET MSL
10
6
10
6
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

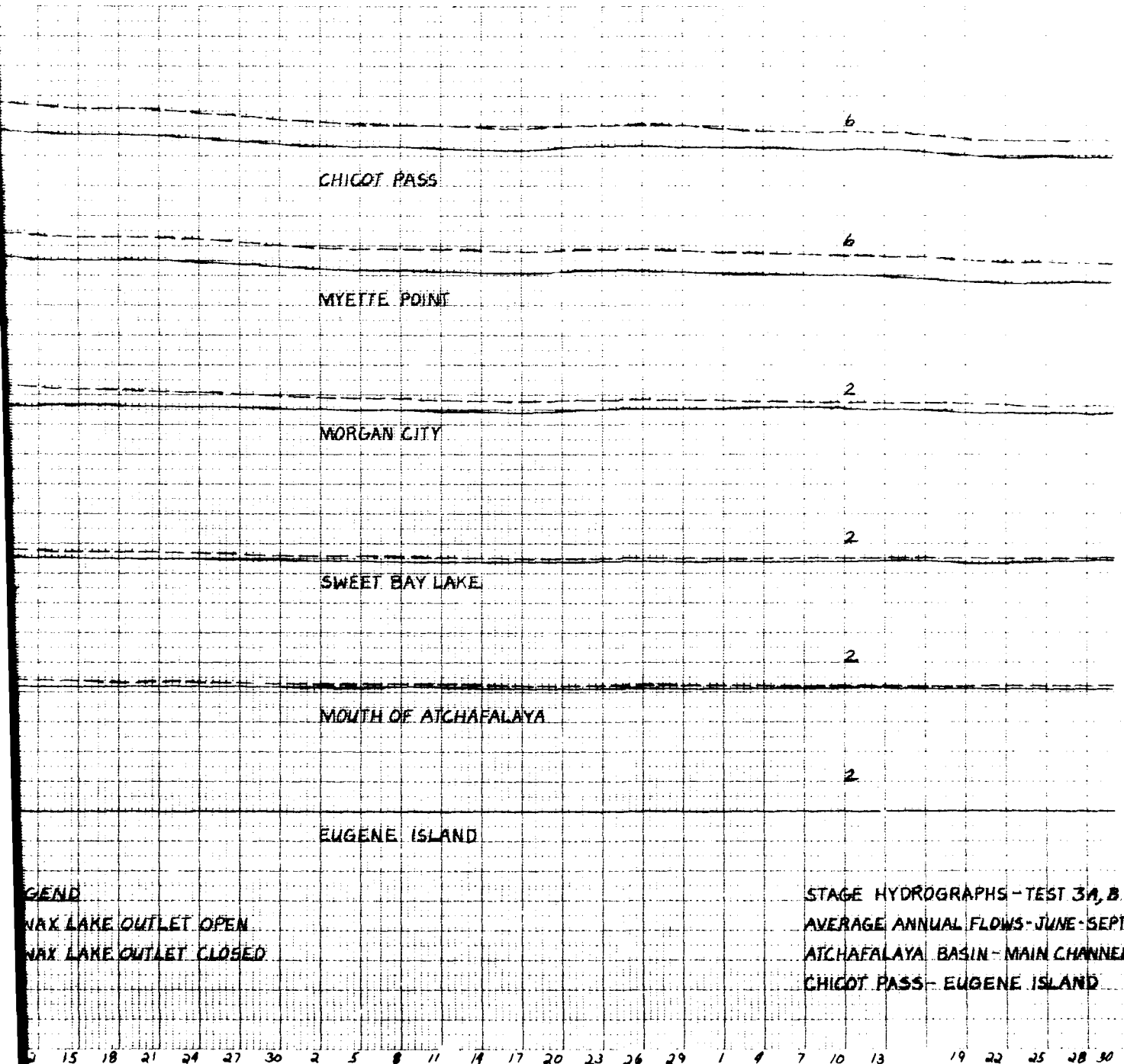
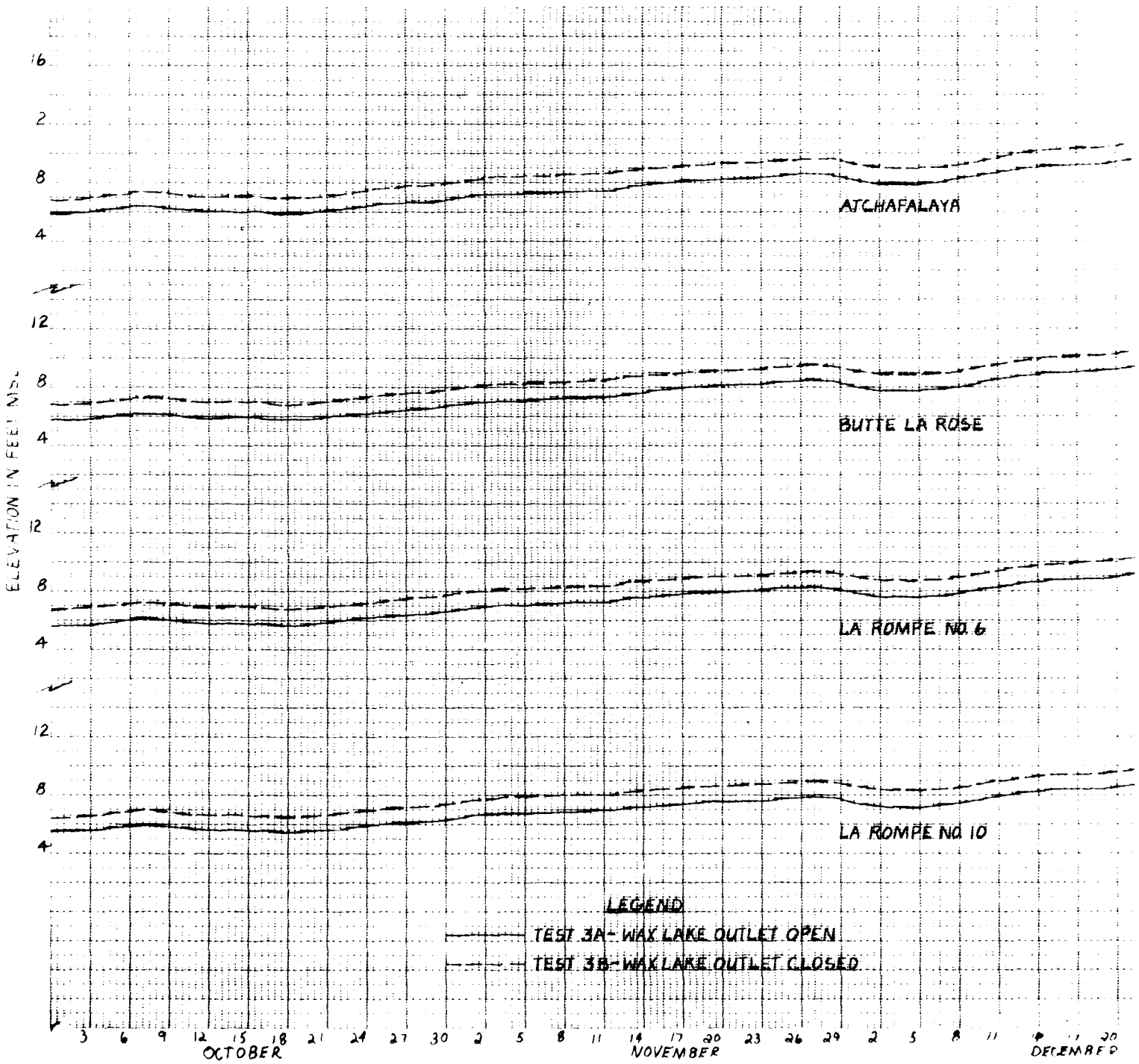

6
CHICOT PASS
6
MYETTE POINT
2
MORGAN CITY
2
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
2
EUGENE ISLAND
GEND
NAX LAKE OUTLET OPEN
NAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 107


ELEVATION IN FEET MSL
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

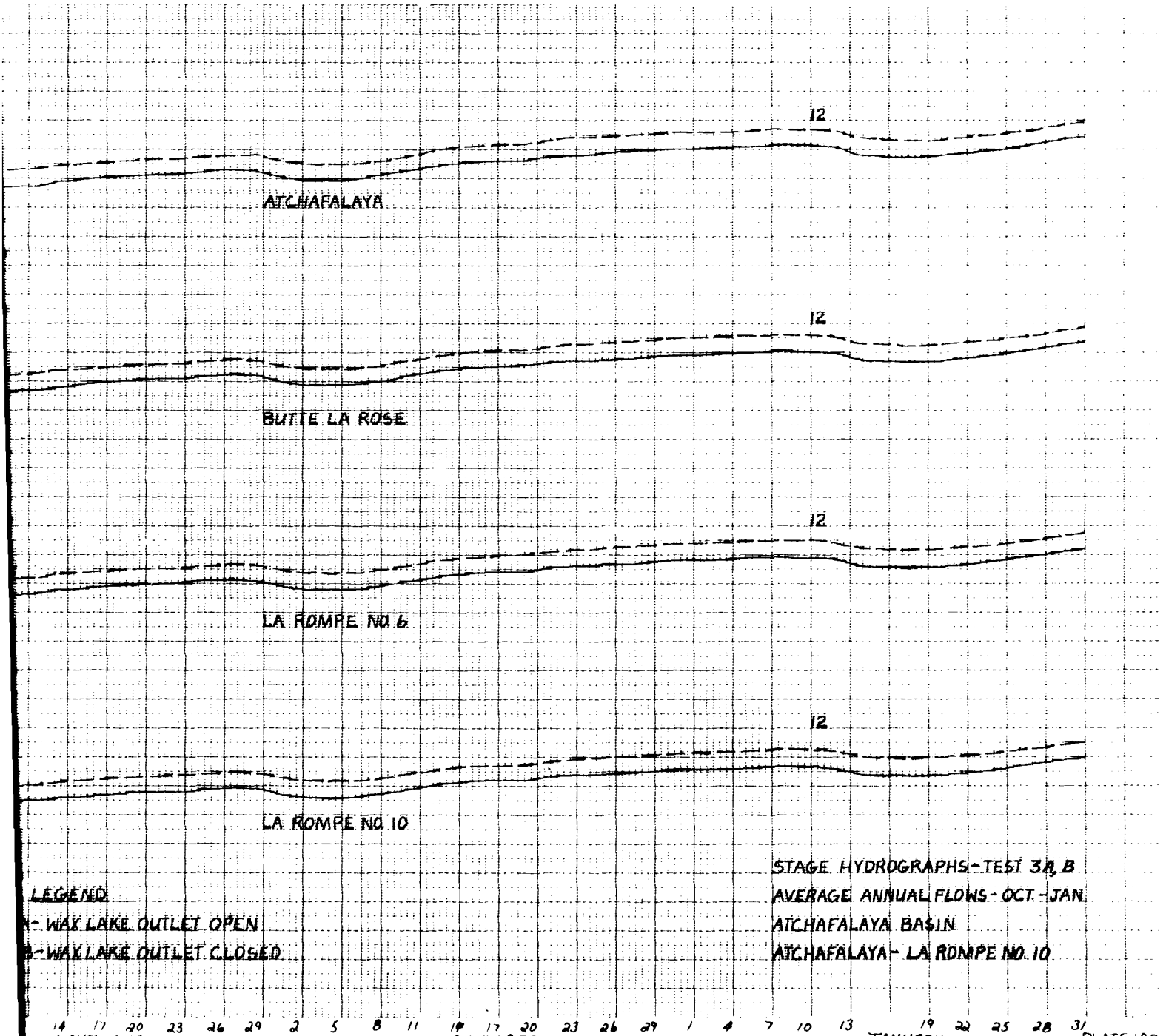
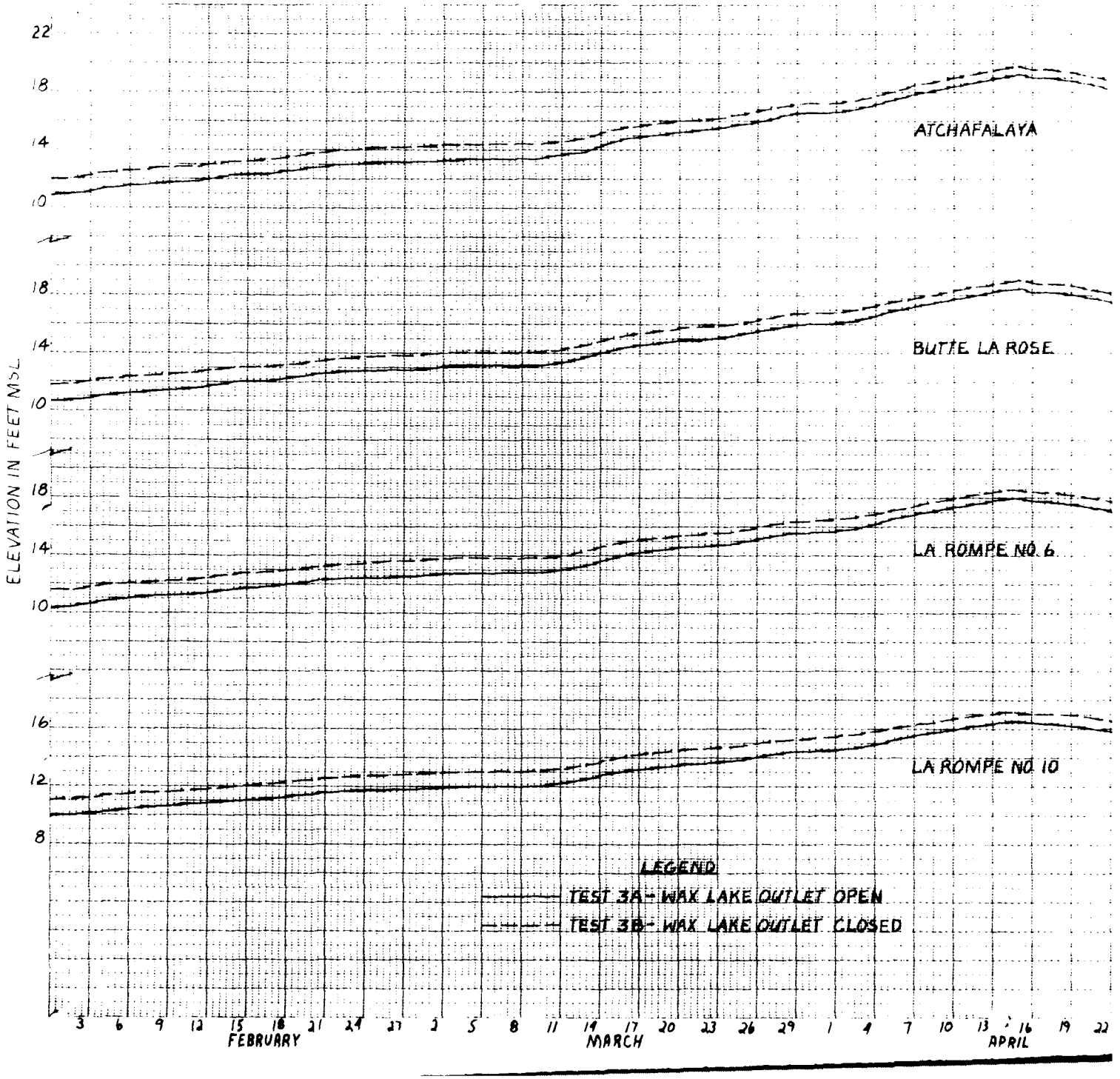

12
ATCHAFALAYA
12
BUTTE LA ROSE
12
LA ROMPE NO 6
12
LA ROMPE NO 10
LEGEND
A- WAX LAKE OUTLET OPEN
B- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10
14 17 20 23 26 29 2 5 8 11 16 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 108


ELEVATION IN FEET MSL.
22
18
14
10
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22
APRIL

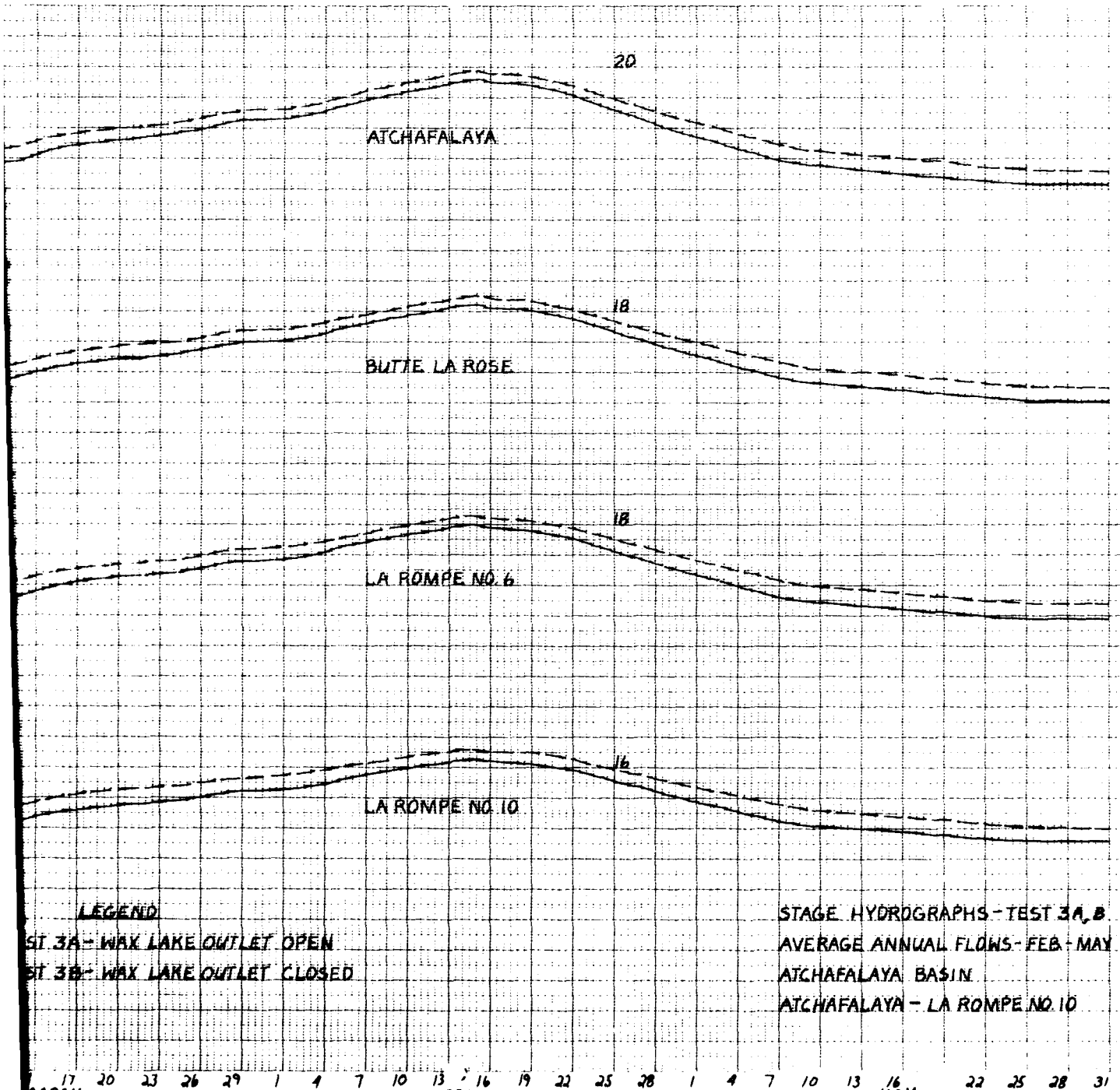
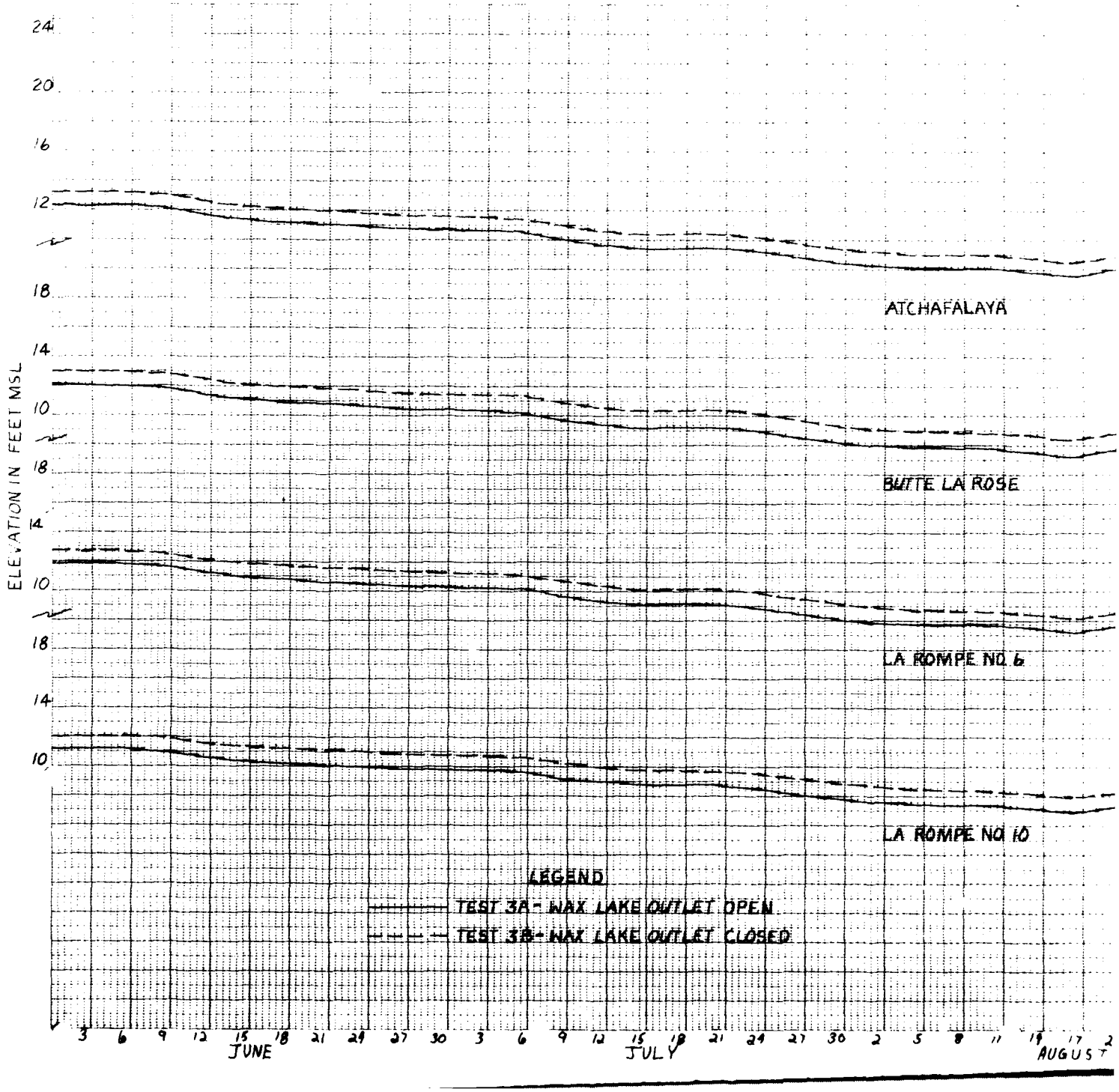

20
ATCHAFALAYA
18
BUTTE LA ROSE
18
LA ROMPE NO. 6
16
LA ROMPE NO. 10
LEGEND
ST 3A - WAX LAKE OUTLET OPEN
ST 3B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
MARCH
APRIL
MAY

PLATE 109


ELEVATION IN FEET MSL
24
20
16
12
18
14
10
18
14
10
18
14
10
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO 10
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

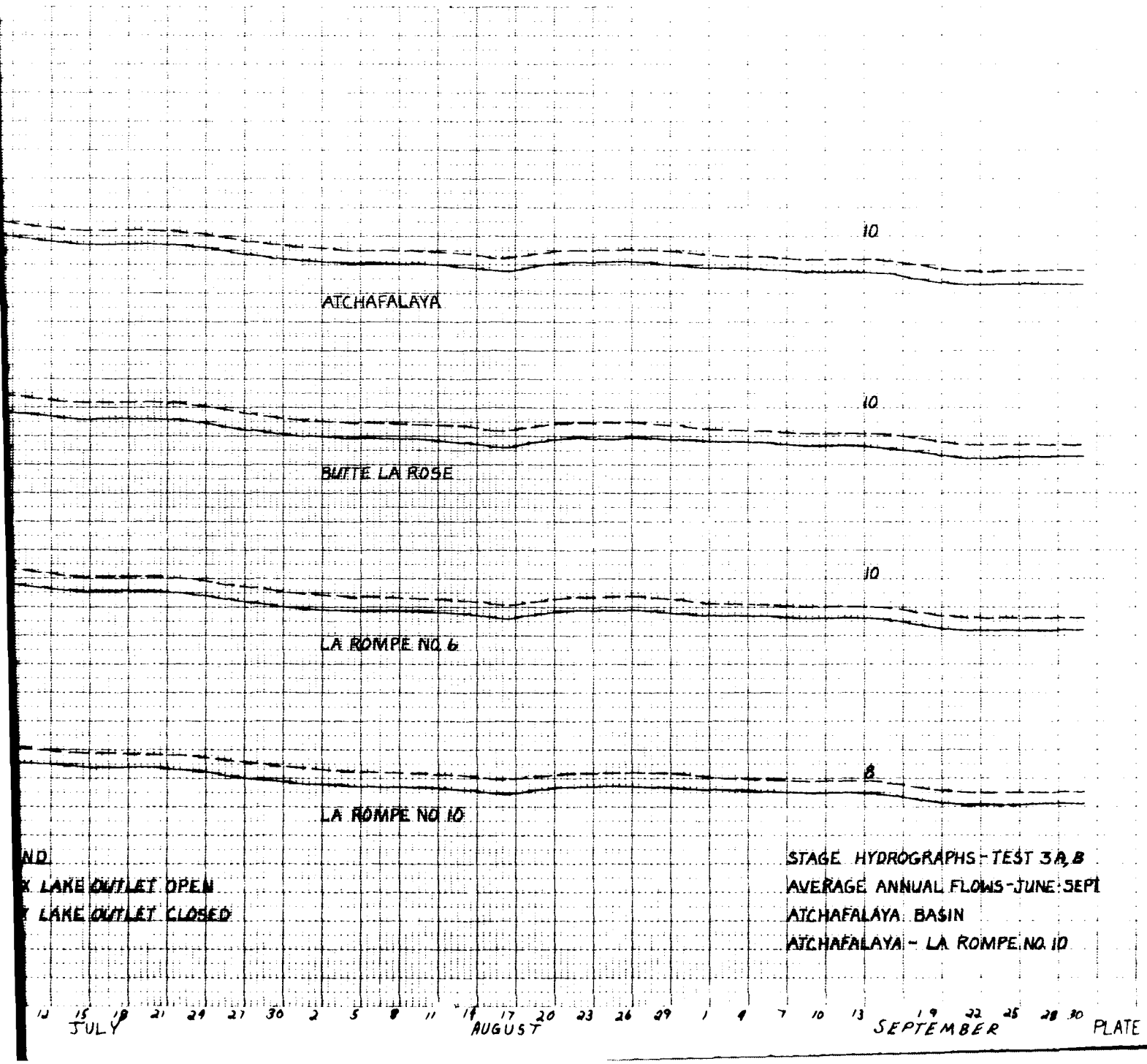
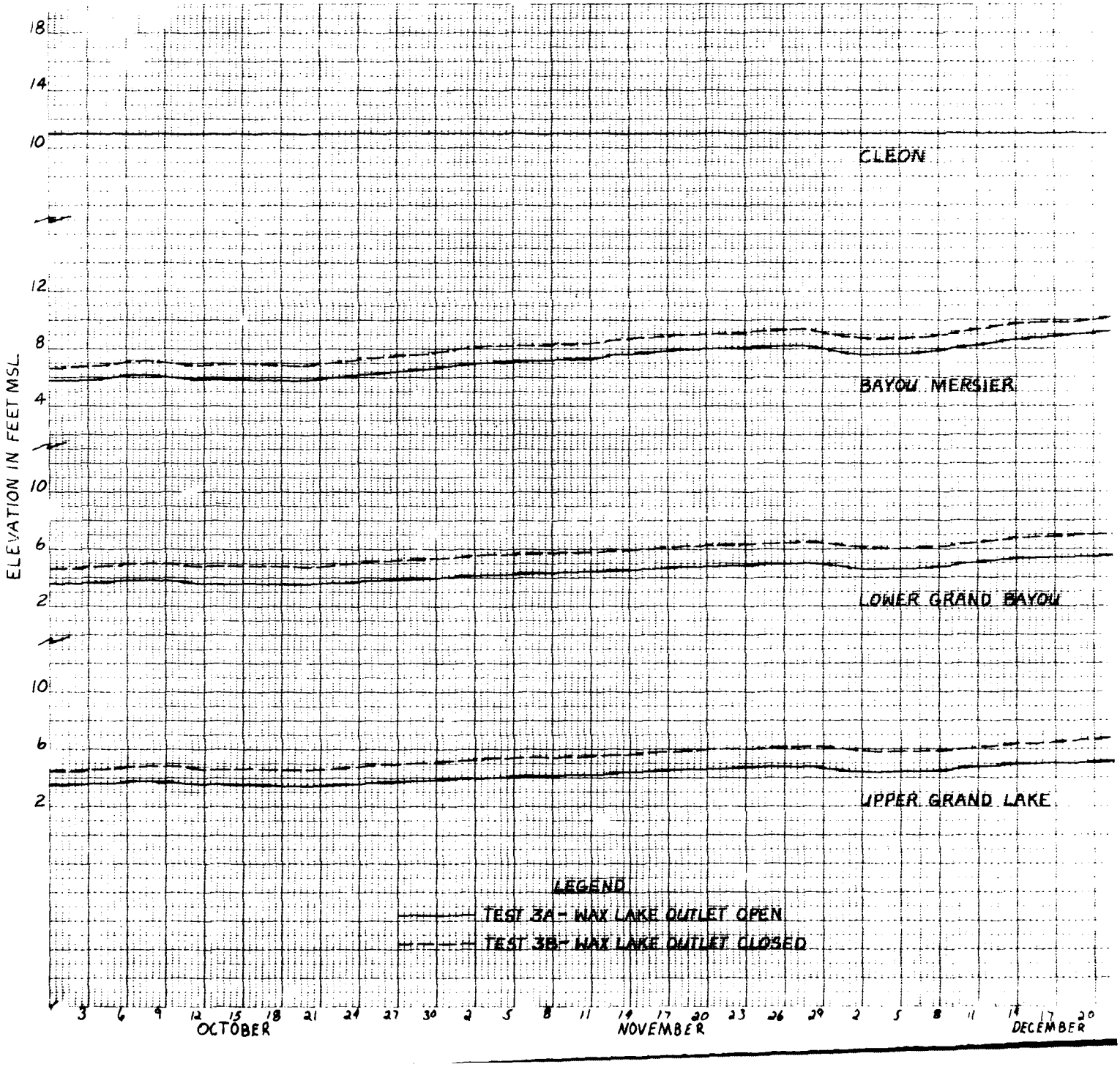
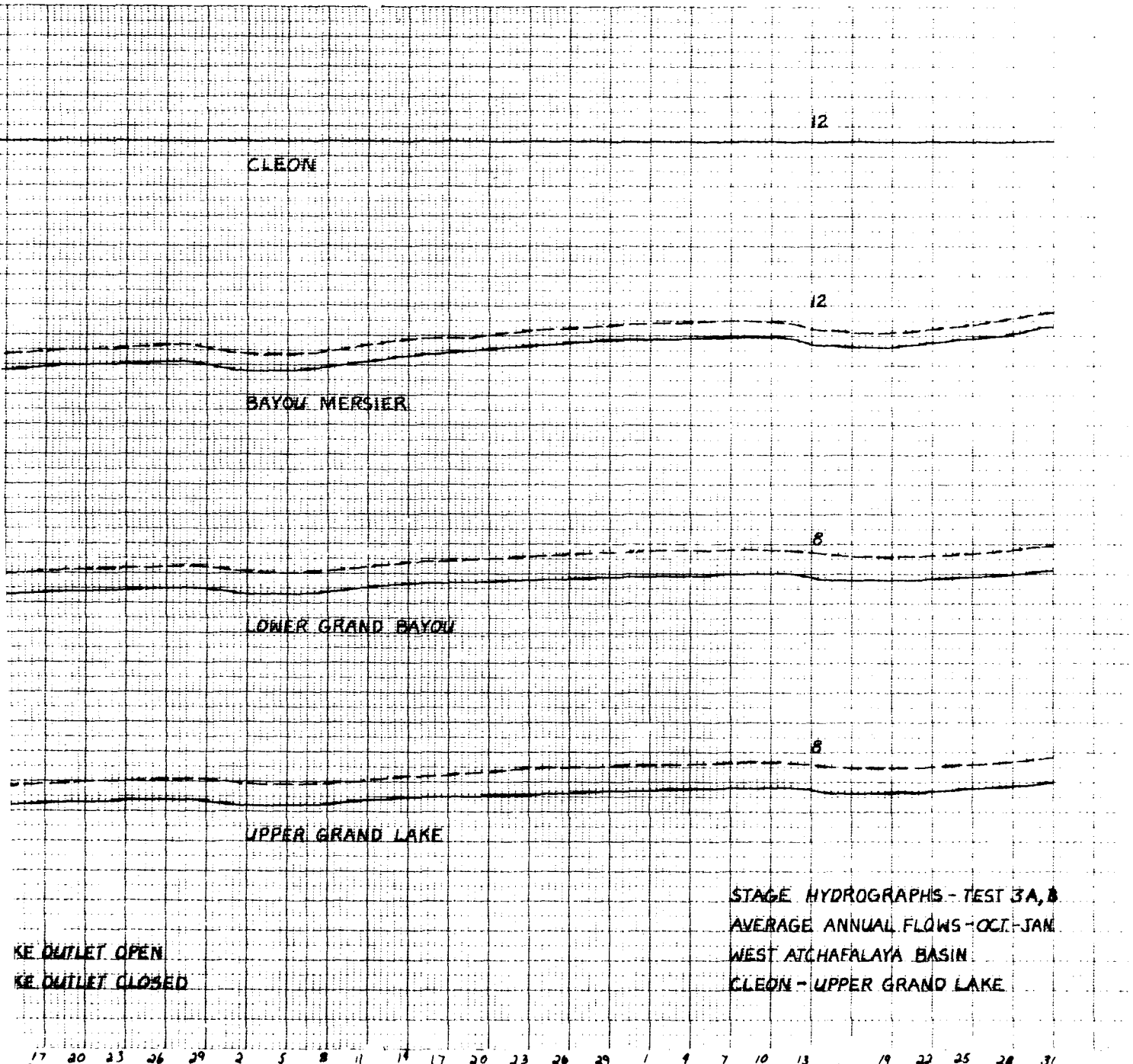

10
ATCHAFALAYA
10
BUTTE LA ROSE
10
LA ROMPE NO 6
8
LA ROMPE NO 10
ND
X LAKE OUTLET OPEN
Y LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE-SEPT
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO 10
12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 110

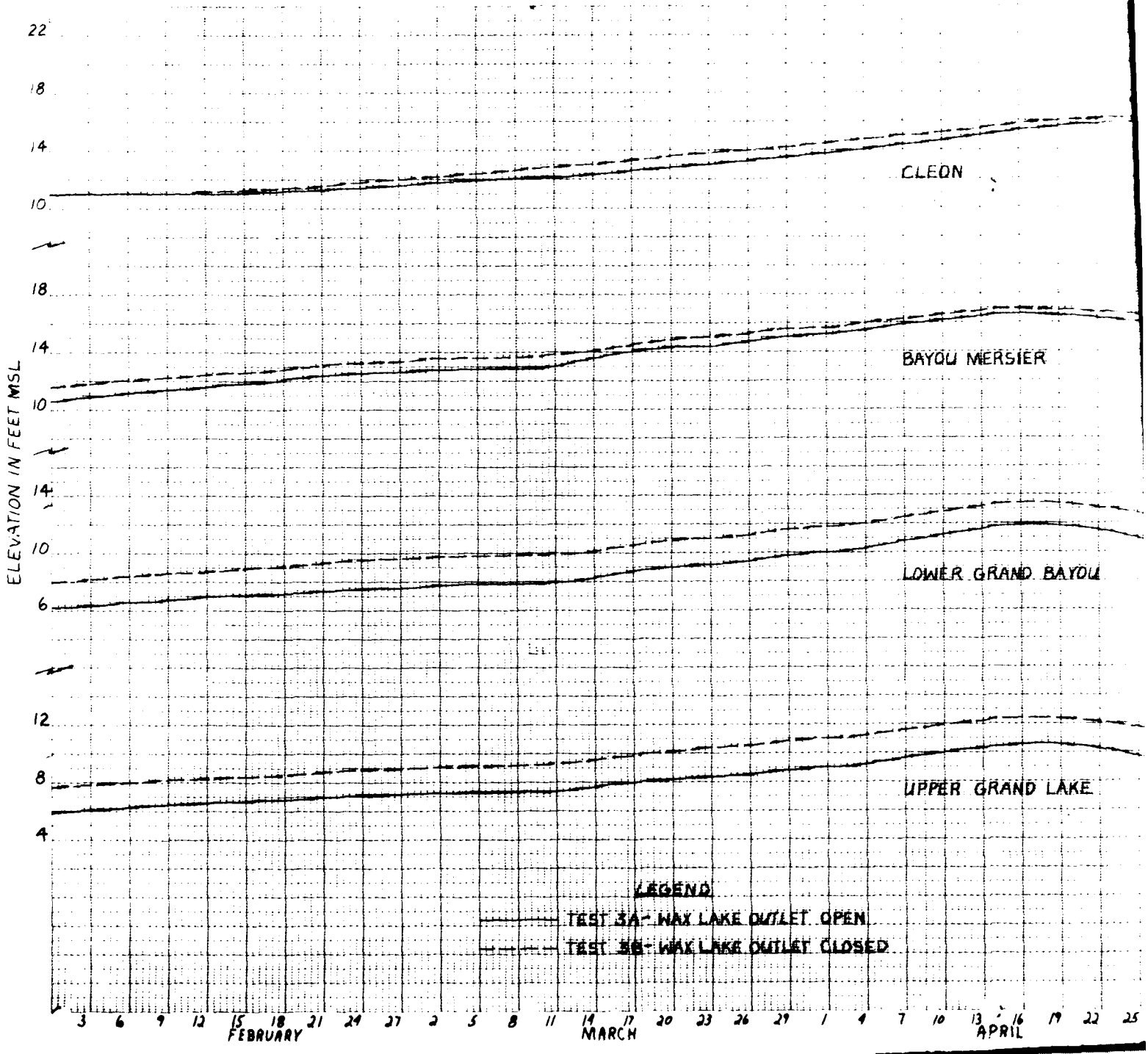

ELEVATION IN FEET MSL
18
14
10
12
8
4
10
6
2
10
6
2
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER

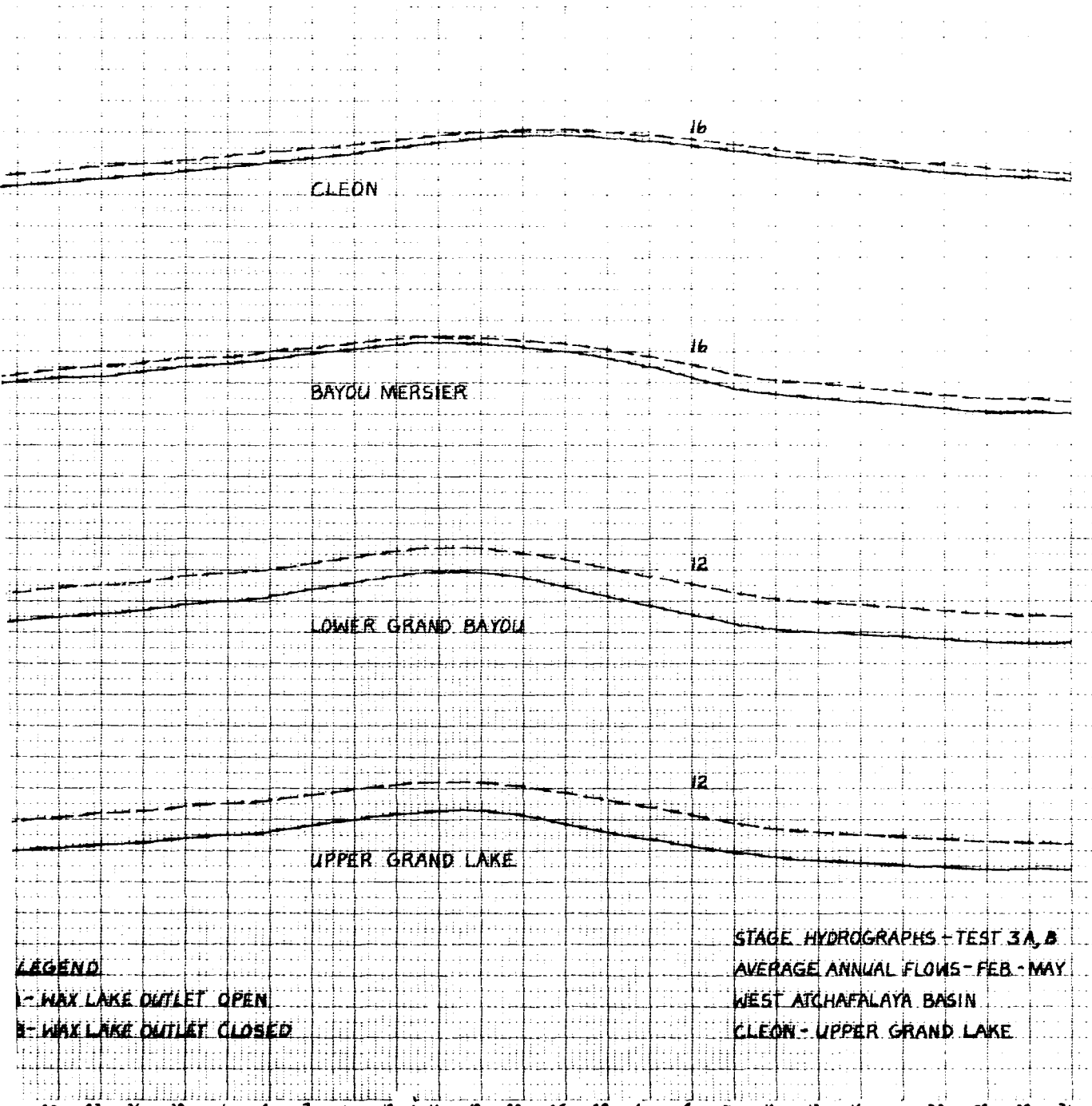


KE OUTLET OPEN
KE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT.-JAN.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

PLATE III


ELEVATION IN FEET MSL
22
18
14
10
18
14
10
14
10
6
12
8
4
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22 25
APRIL



LEGEND

A - WAX LAKE OUTLET OPEN

B - WAX LAKE OUTLET CLOSED

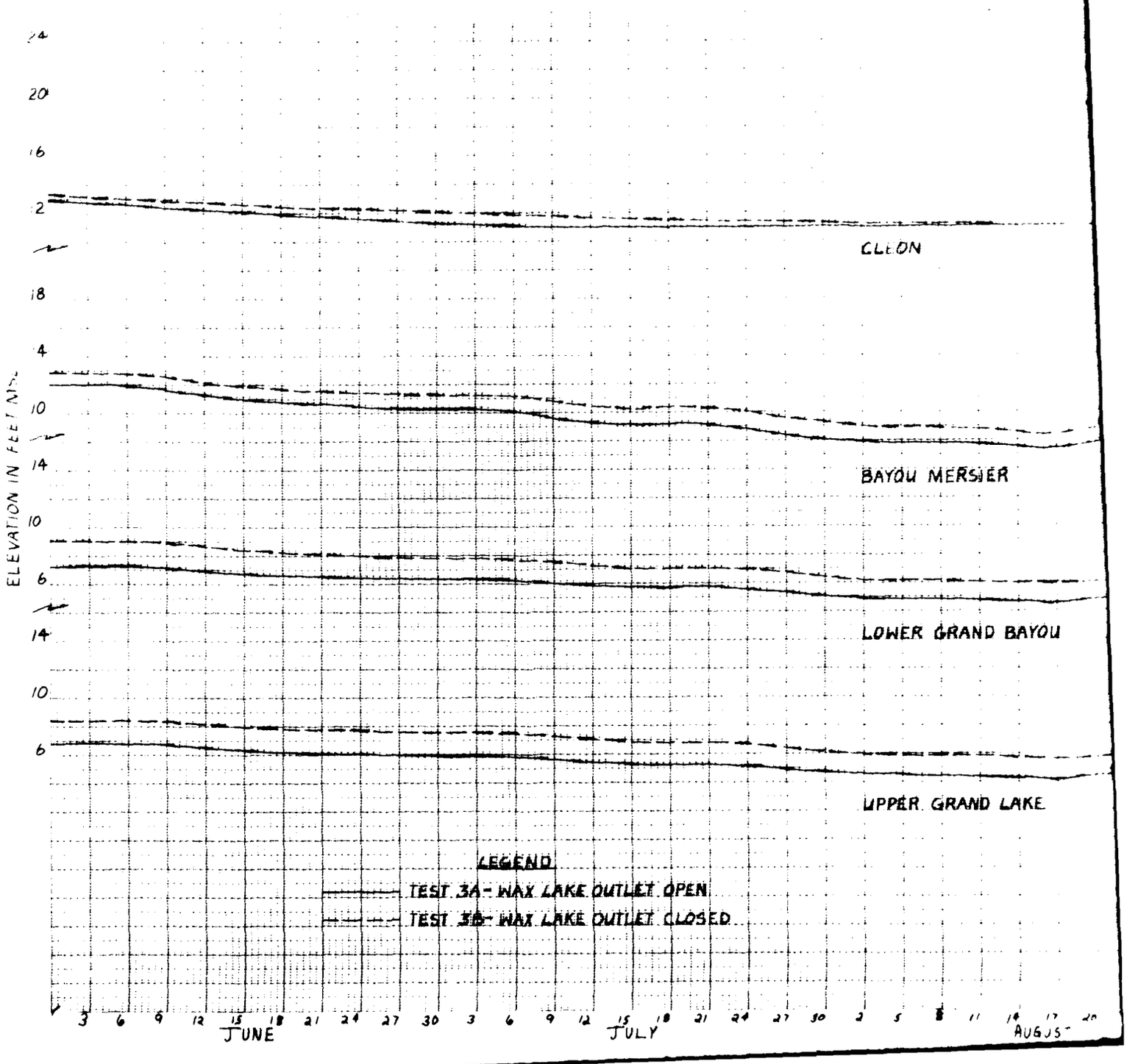
STAGE HYDROGRAPHS - TEST 3A, B

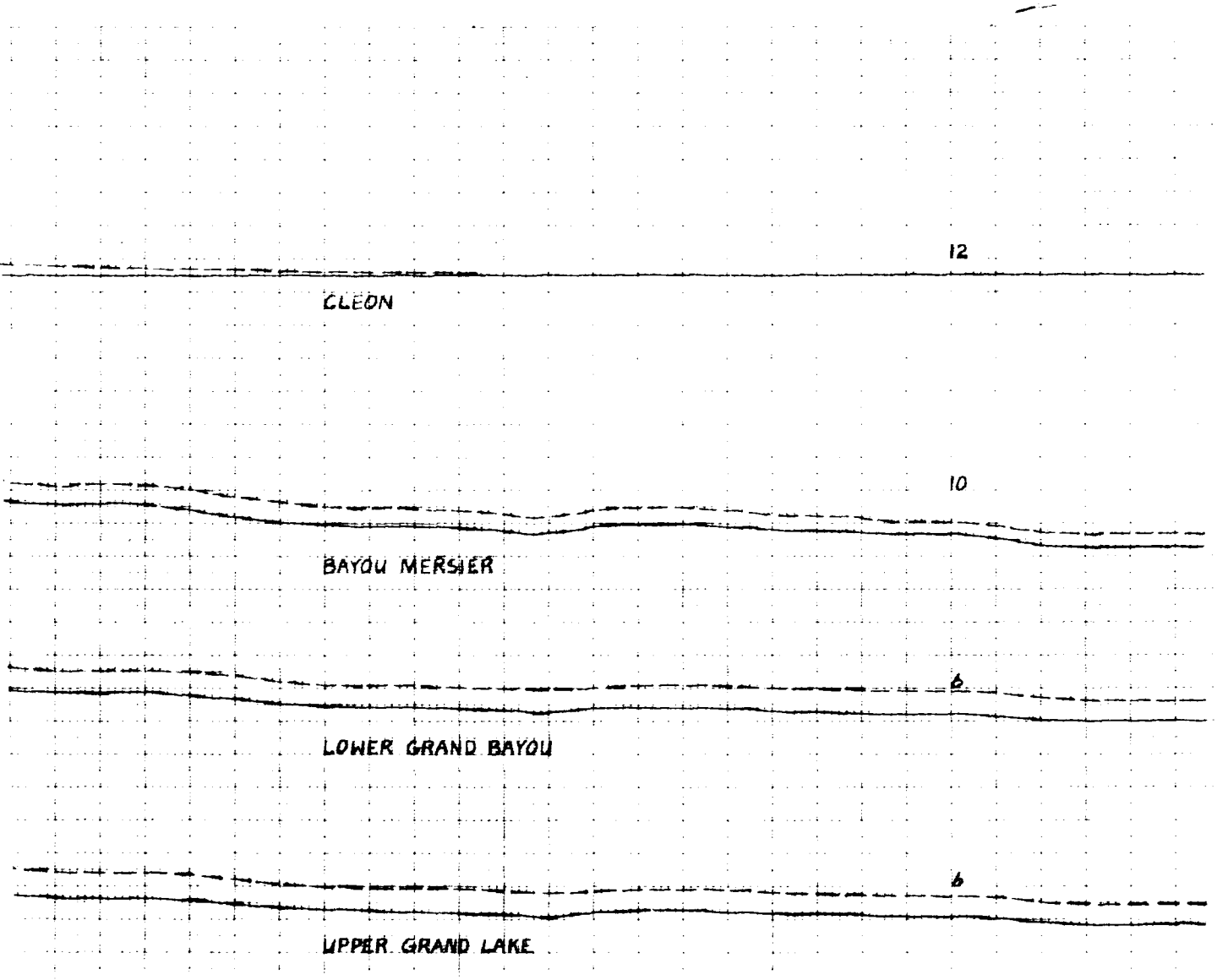
AVERAGE ANNUAL FLOWS - FEB - MAY

WEST ATCHAFALAYA BASIN

CLEON - UPPER GRAND LAKE

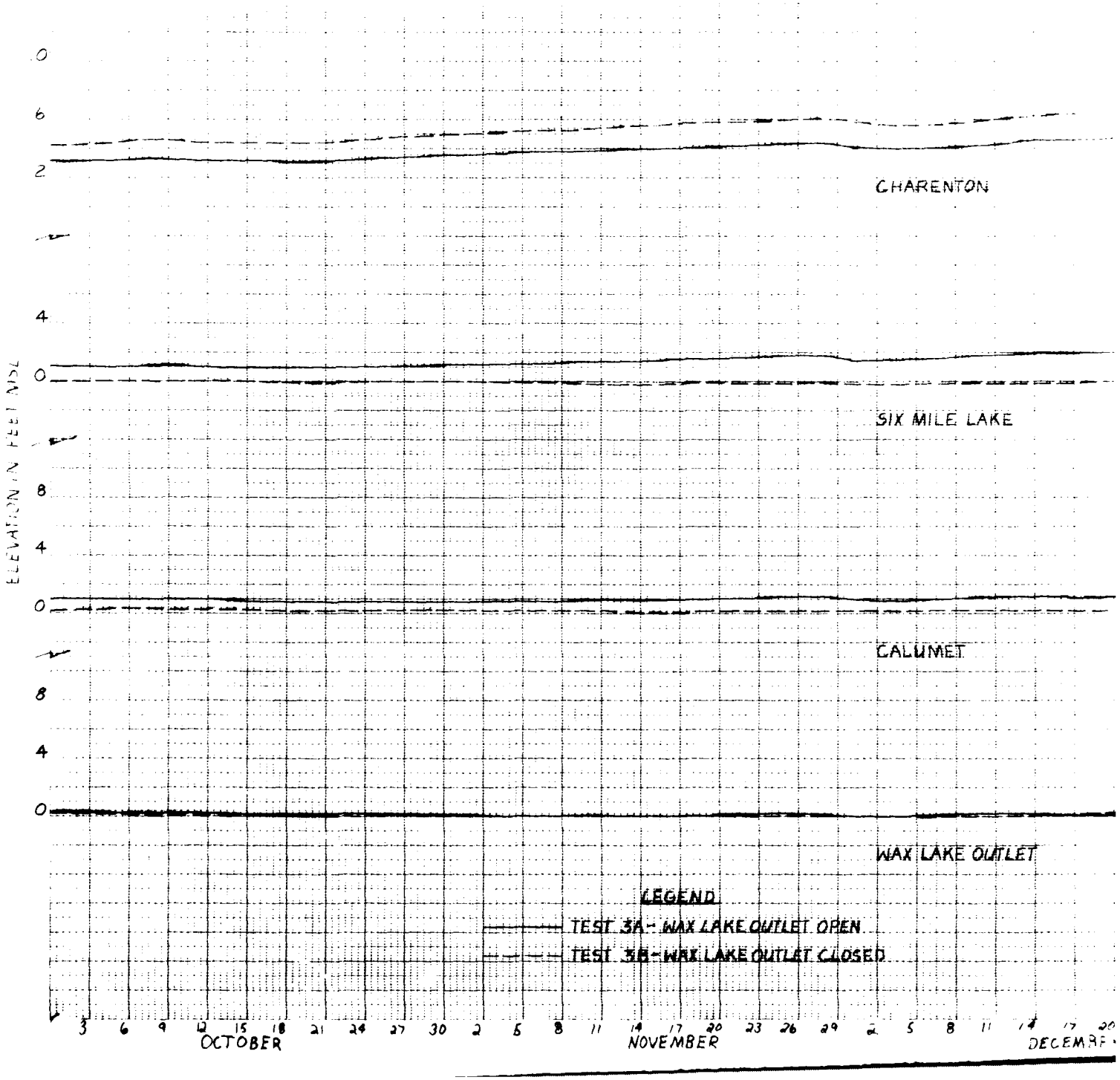
PLATE 112


ELEVATION IN FEET MSL
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
JUNE
JULY
AUGUST



STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

PLATE 3


ELEVATION IN FEET MSL
0
6
2
CHARENTON
4
0
SIX MILE LAKE
8
4
0
CALUMET
8
4
0
WAX LAKE OUTLET
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER

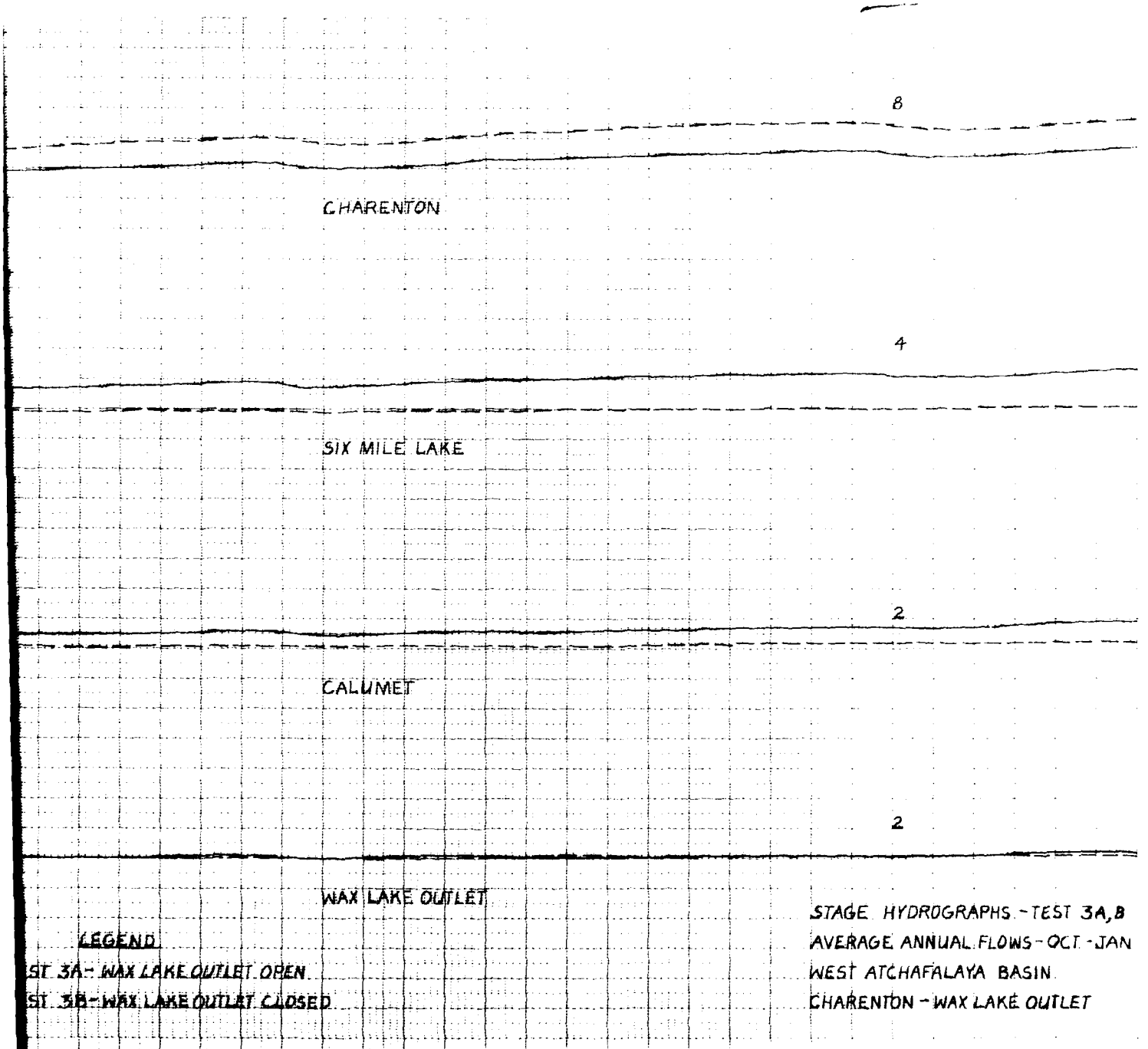
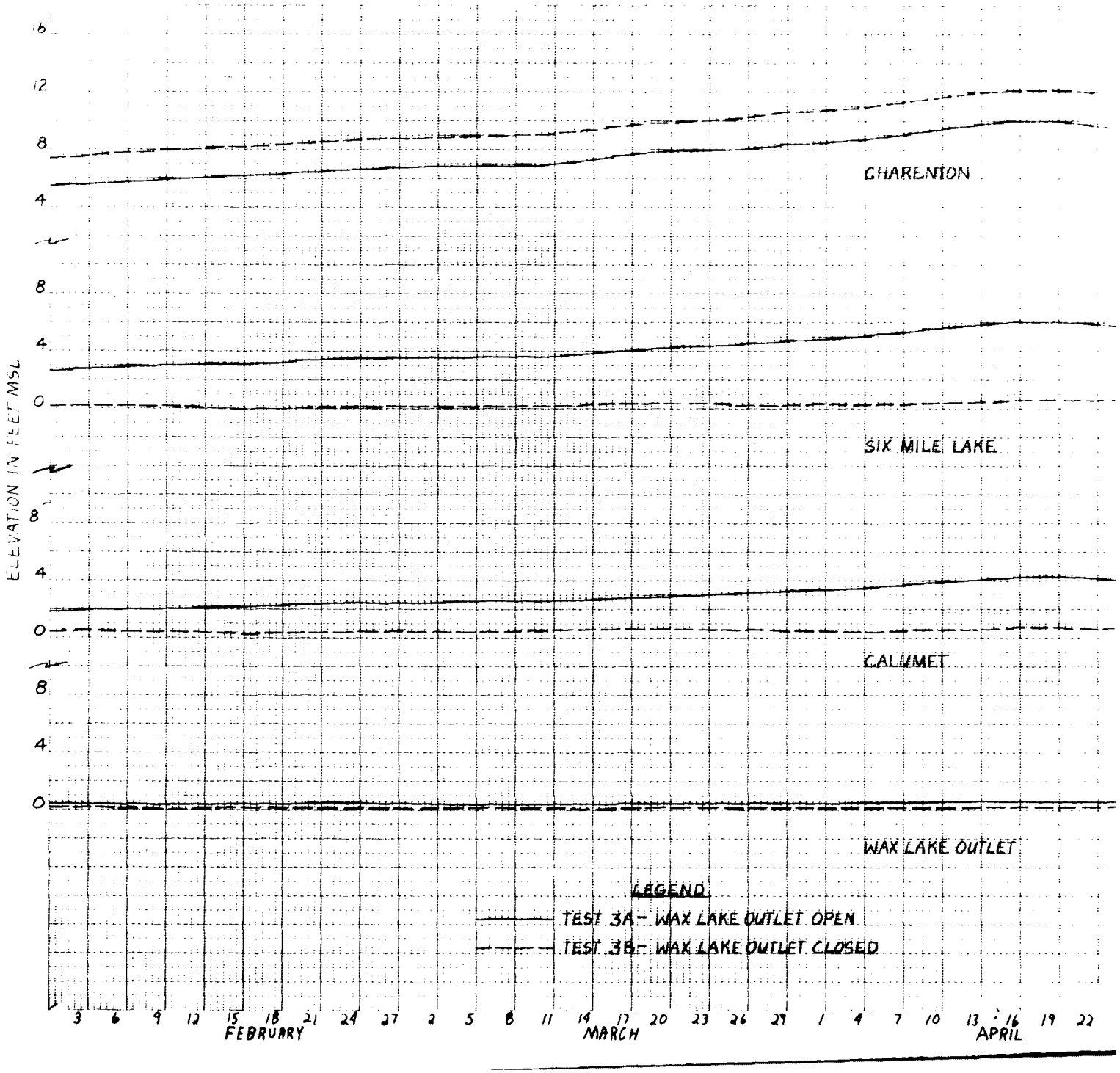
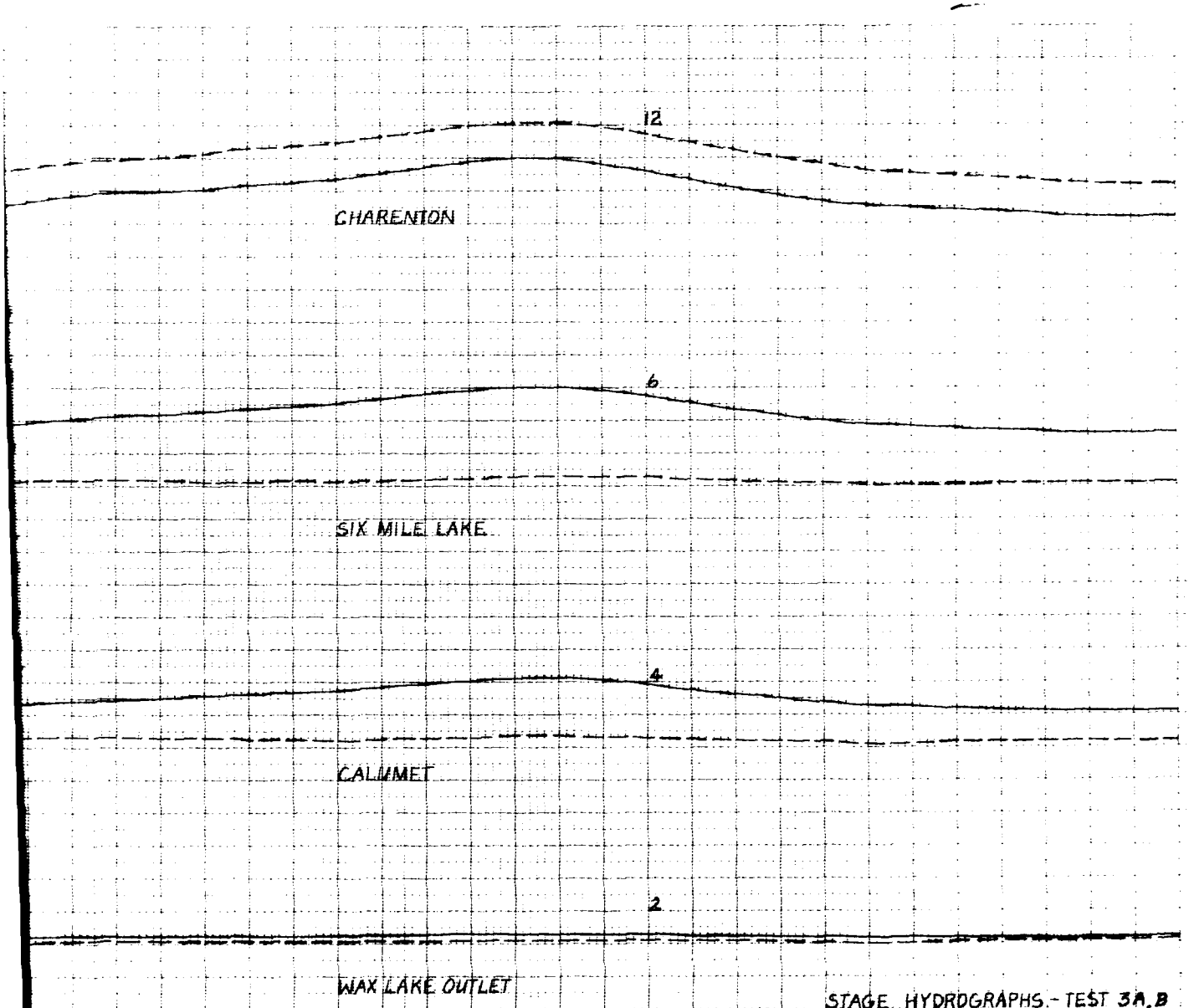

8
CHARENTON
4
SIX MILE LAKE
2
CALUMET
2
WAX LAKE OUTLET
LEGEND
ST. 3A - WAX LAKE OUTLET OPEN
ST. 3B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 1.4


ELEVATION IN FEET MSL
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



LEGEND

3A - WAX LAKE OUTLET OPEN

3B - WAX LAKE OUTLET CLOSED

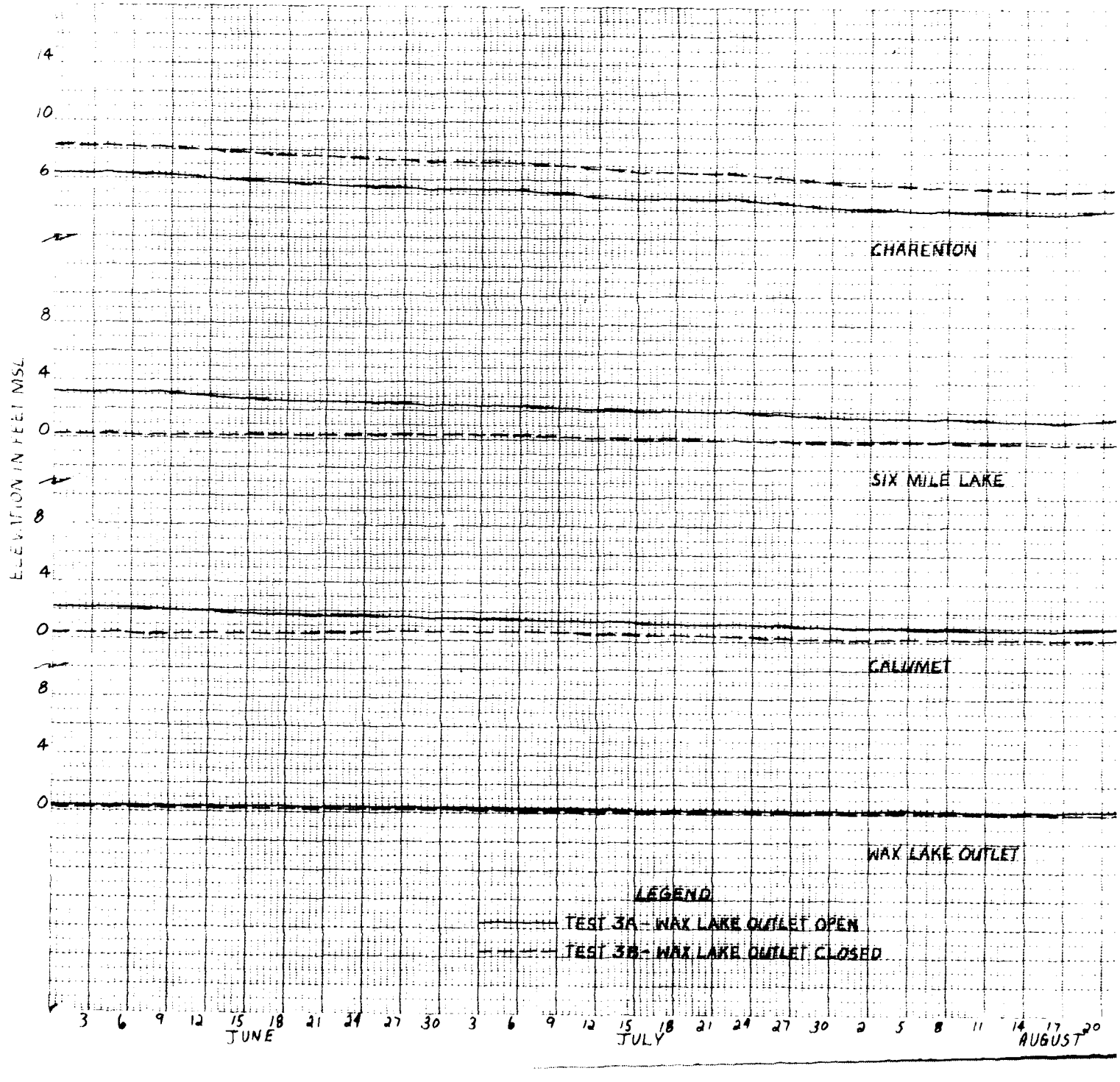
STAGE HYDROGRAPHS - TEST 3A, B

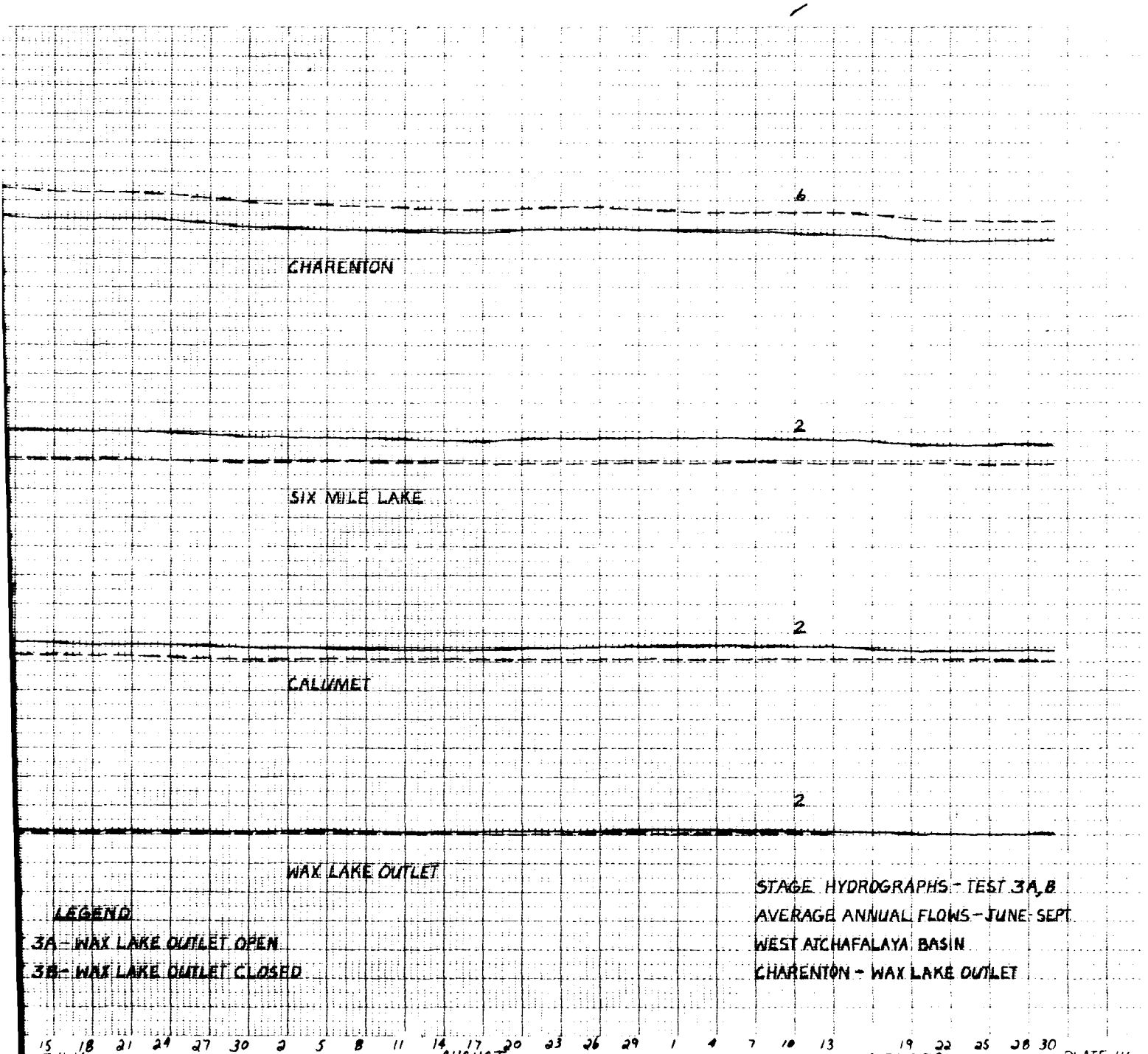
AVERAGE ANNUAL FLOWS - FEB - MAY

WEST ATCHAFALAYA BASIN

CHARENTON - WAX LAKE OUTLET

PLATE 115


ELEVATION IN FEET MSL
14
10
6
CHARENTON
8
4
0
SIX MILE LAKE
8
4
0
CALUMET
8
4
0
WAX LAKE OUTLET
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST



LEGEND

3A - WAX LAKE OUTLET OPEN

3B - WAX LAKE OUTLET CLOSED

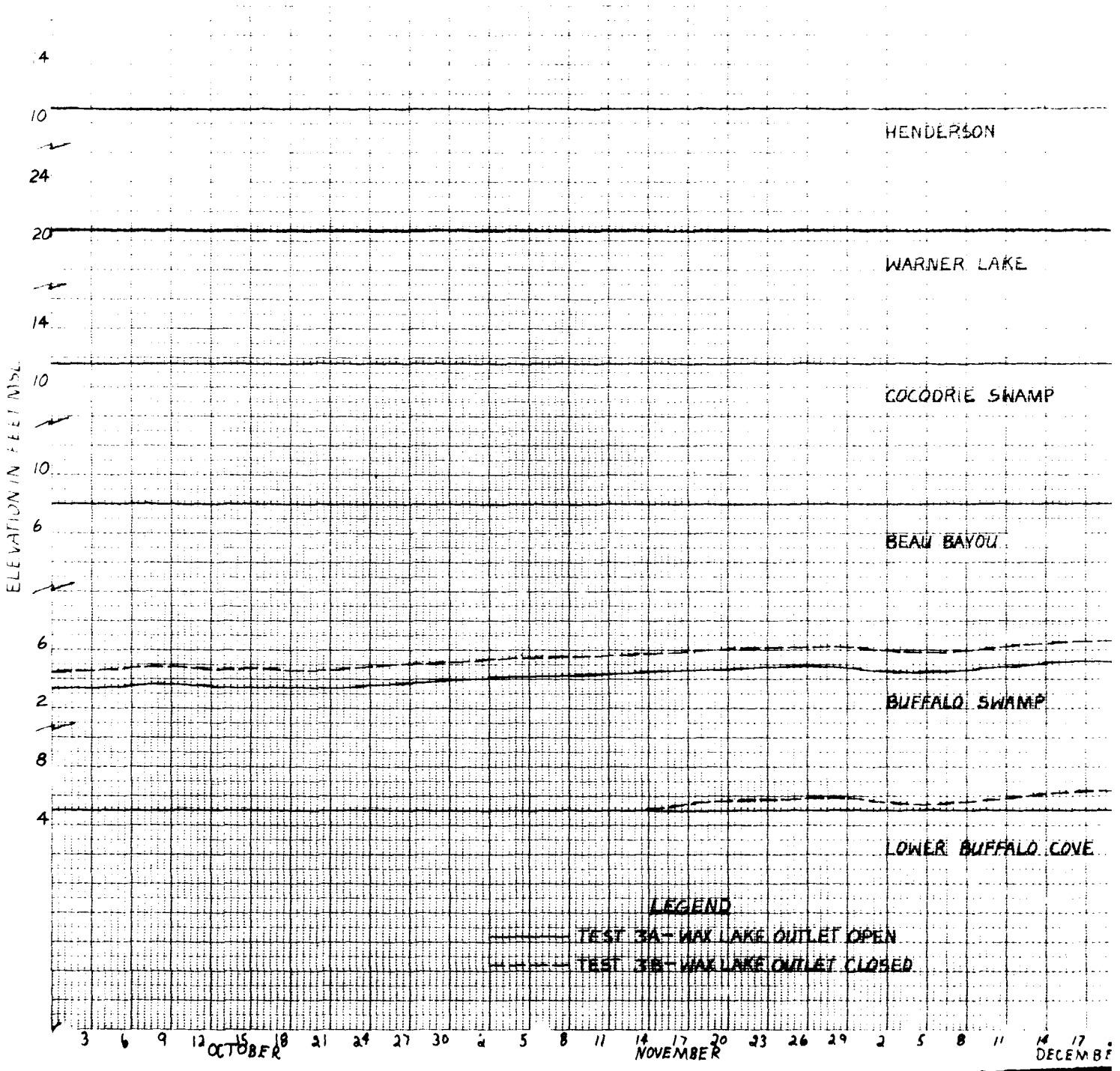
STAGE HYDROGRAPHS - TEST 3A,B

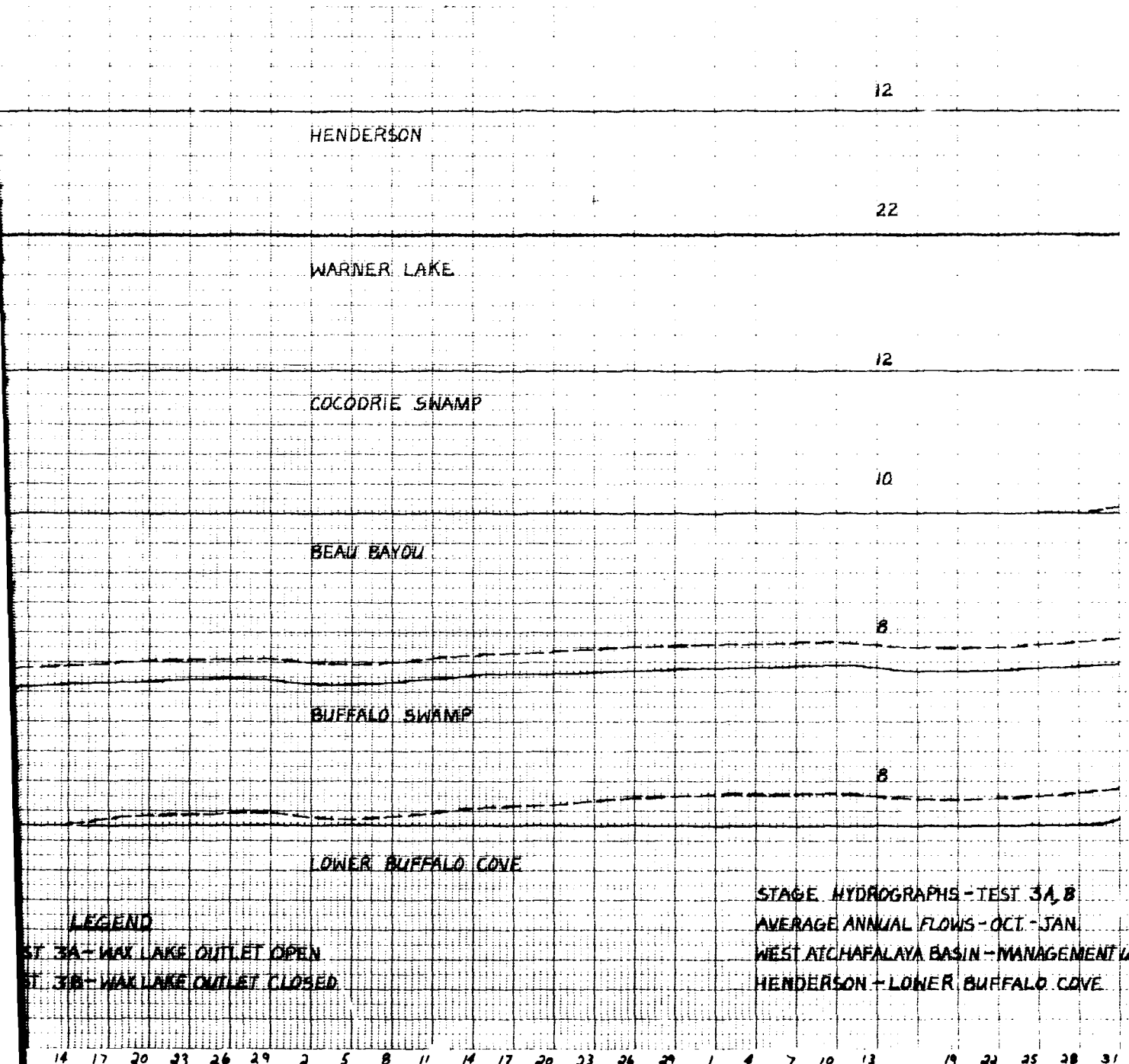
AVERAGE ANNUAL FLOWS - JUNE-SEPT

WEST ATCHAFALAYA BASIN

CHARENTON - WAX LAKE OUTLET

PLATE 116


4
10
24
20
14
10
10
6
6
2
8
4
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
ELEVATION IN FEET MSL
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17
DECEMBE



LEGEND

ST 3A - MAX LAKE OUTLET OPEN

ST 3B - MAX LAKE OUTLET CLOSED

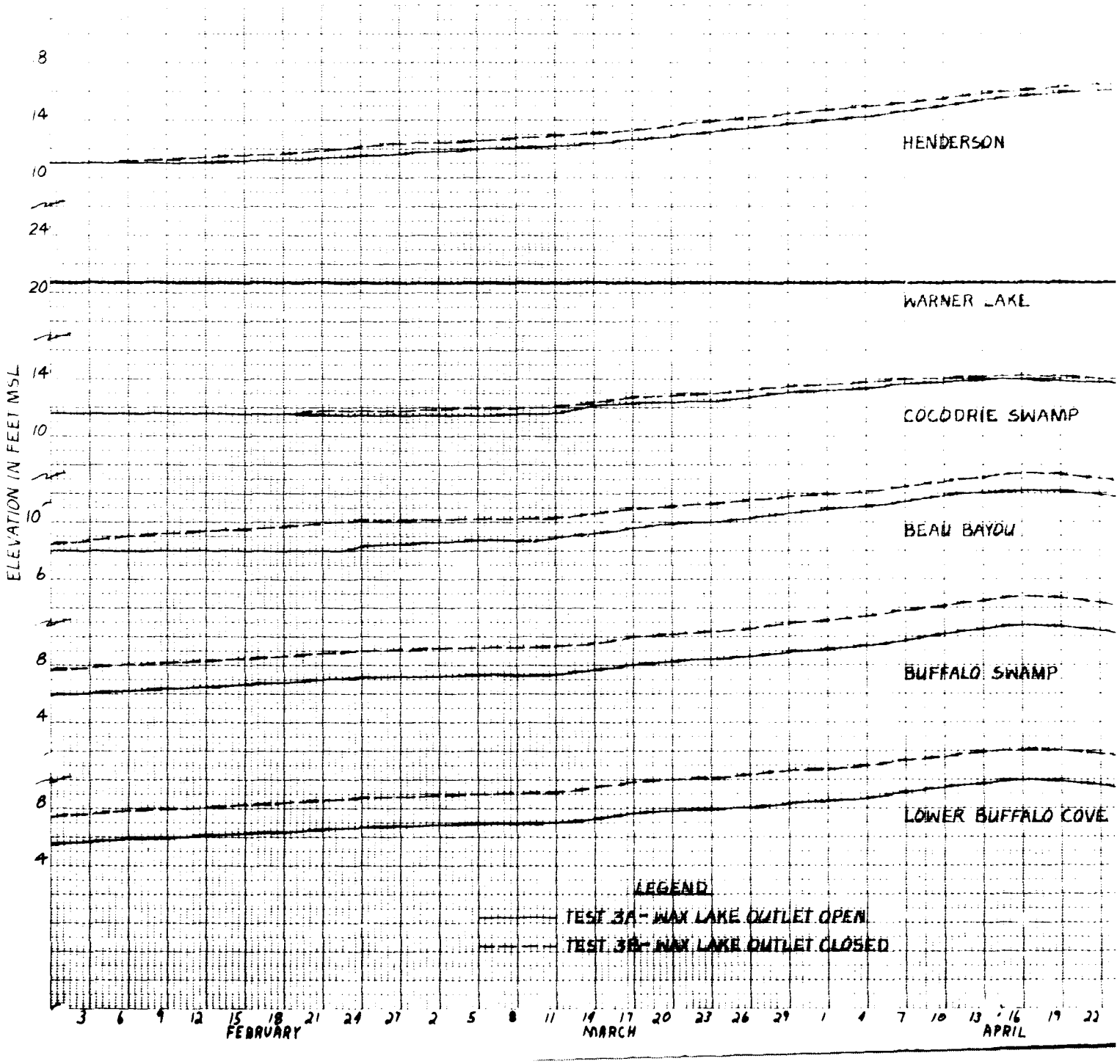
STAGE HYDROGRAPHS - TEST 3A, B

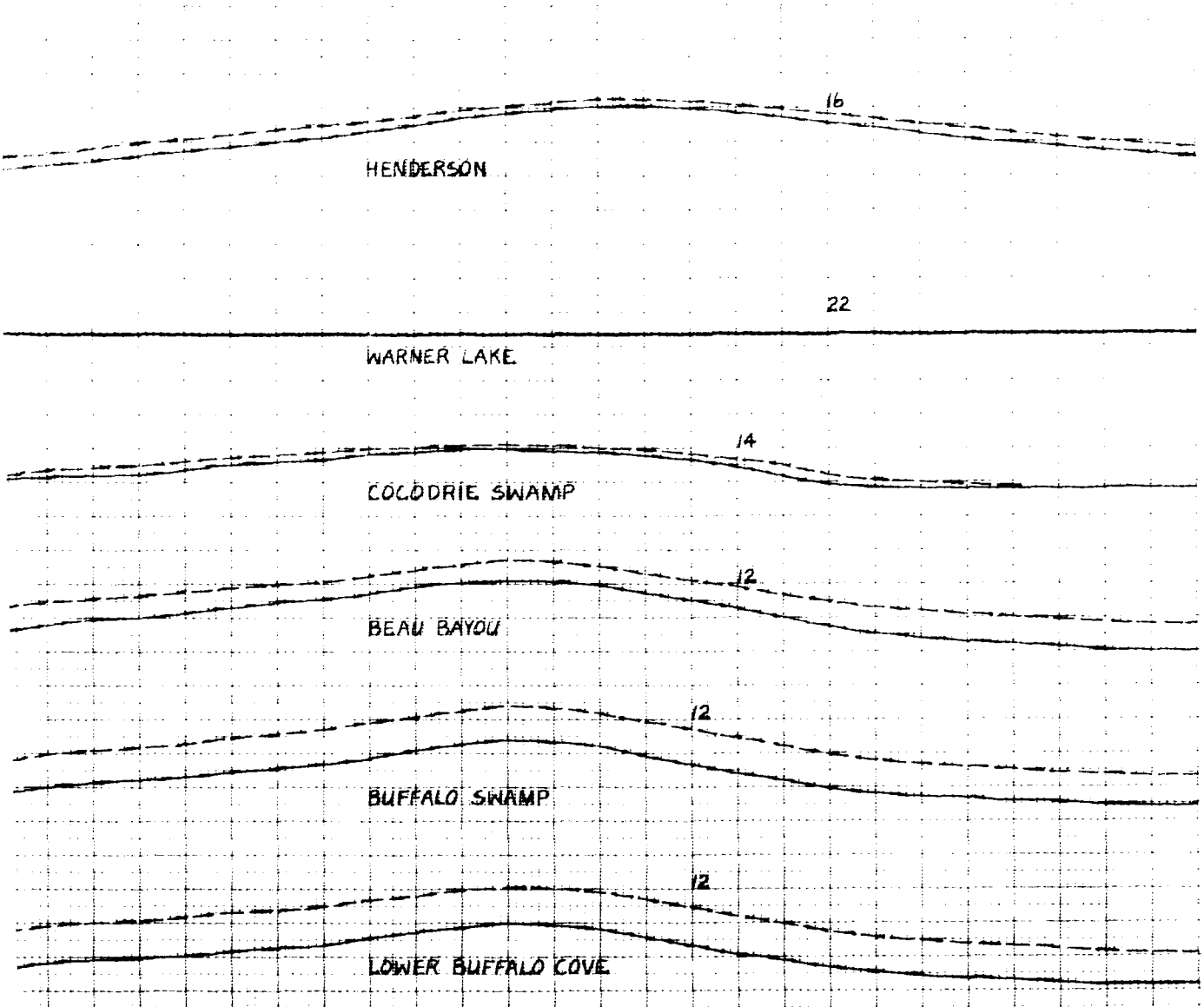
AVERAGE ANNUAL FLOWS - OCT. - JAN.

WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS

HENDERSON - LOWER BUFFALO COVE

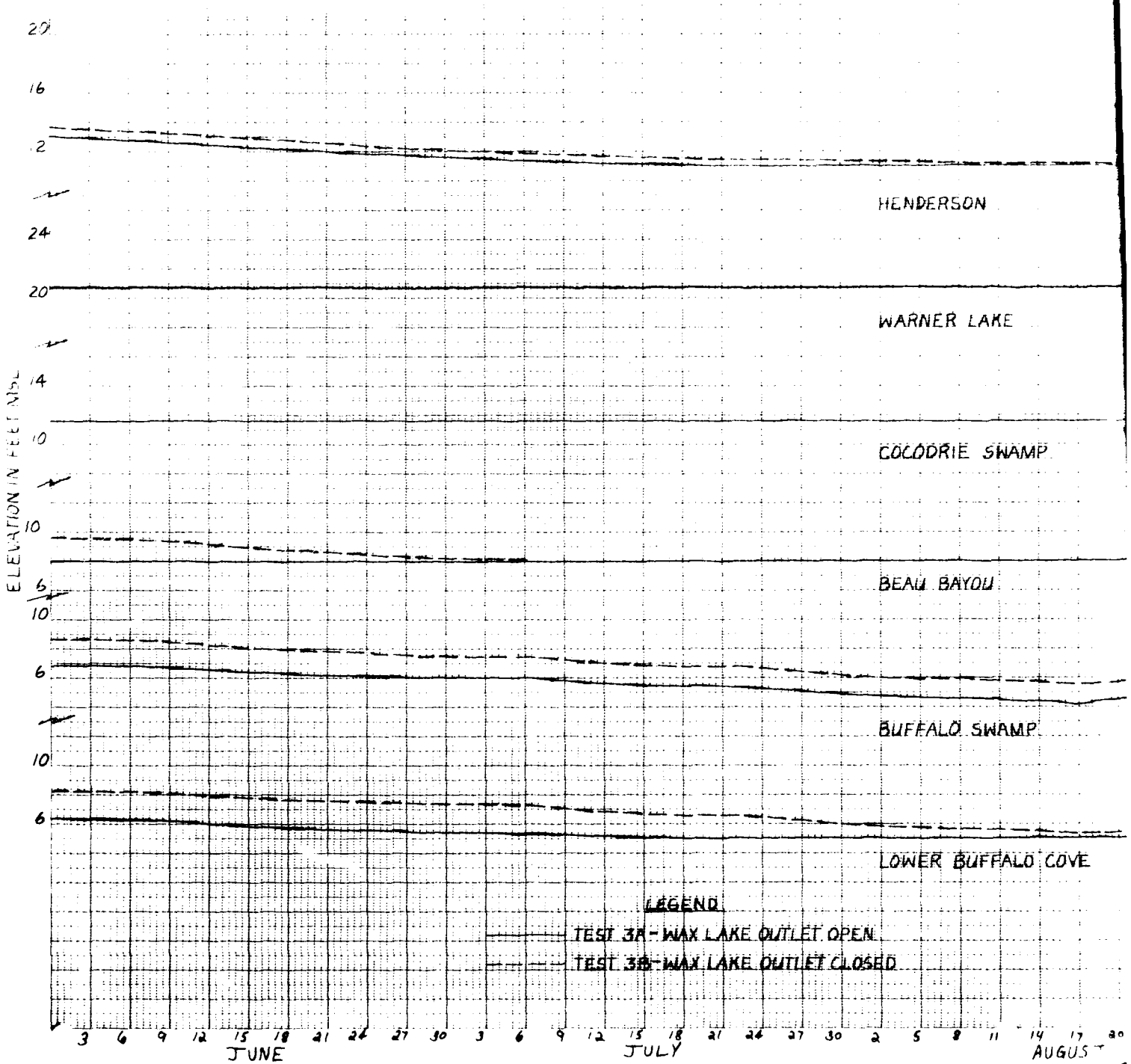
PLATE 117

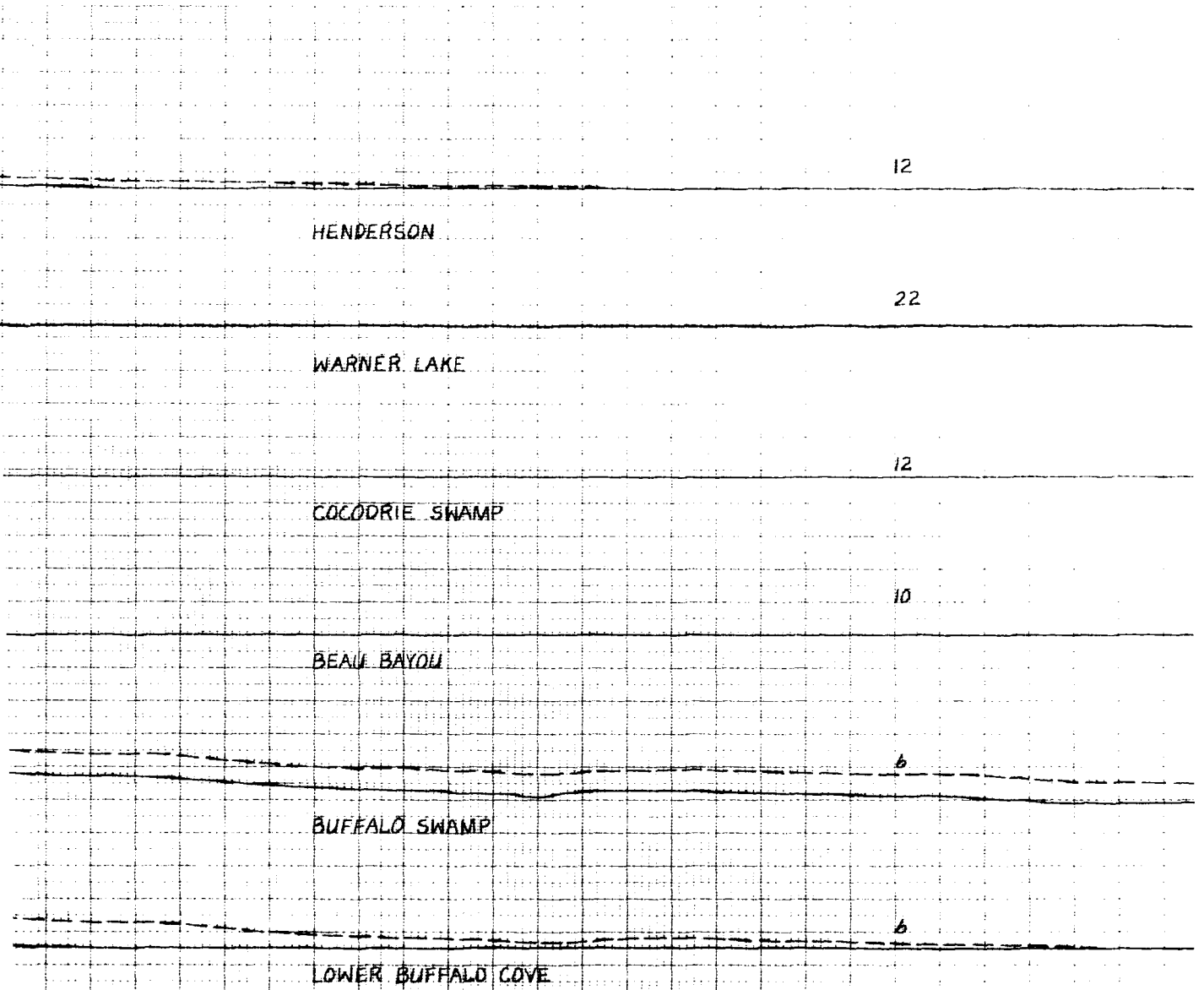

HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
ELEVATION IN FEET MSL
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

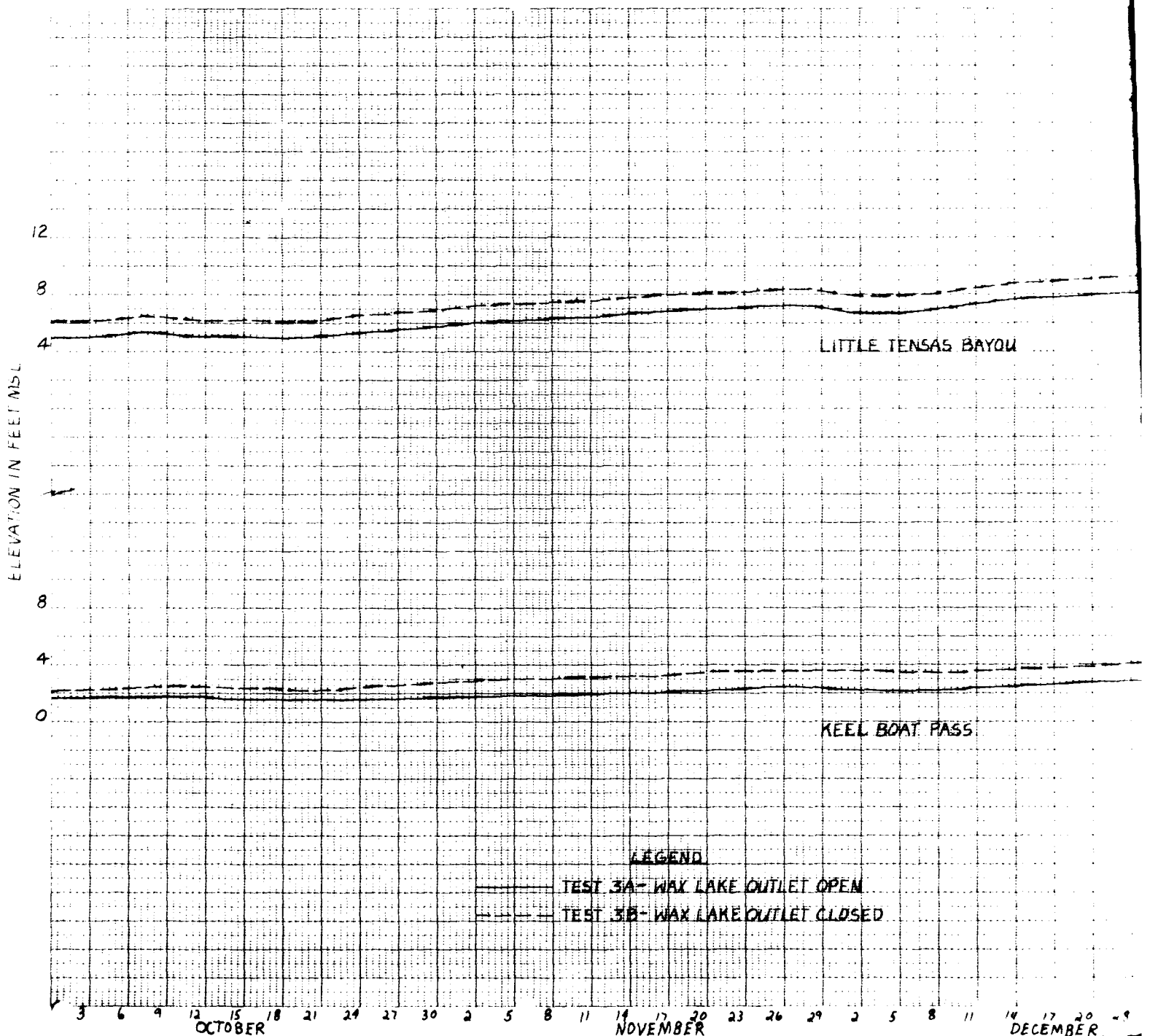
PLATE 118

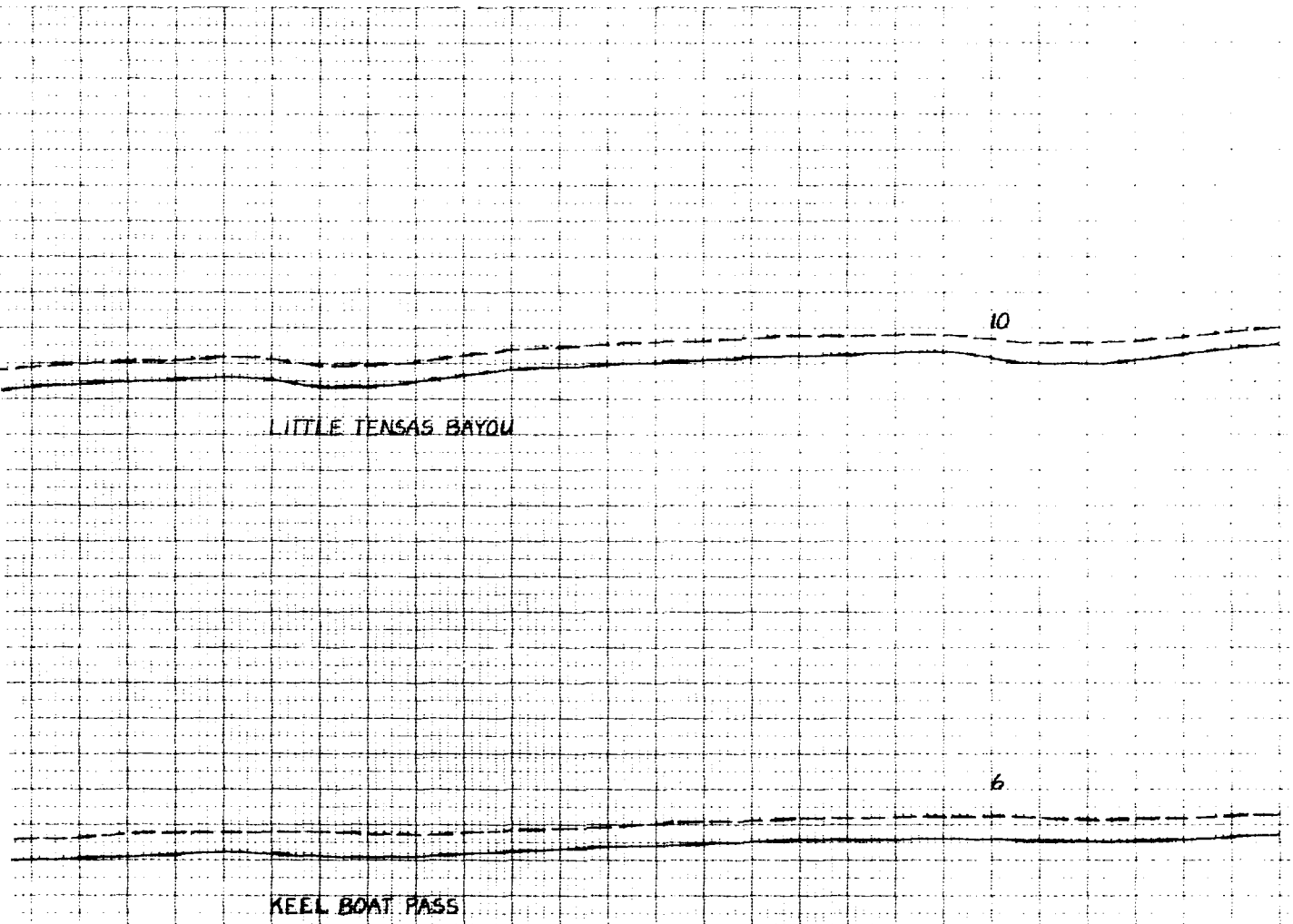

ELEVATION IN FEET MSL
20
16
12
24
20
14
10
10
6
10
6
10
6
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST



STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

PLATE 119


ELEVATION IN FEET MSL
12
8
4
8
4
0
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER



LEGEND

3A- WAX LAKE OUTLET OPEN

3B- WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B

AVERAGE ANNUAL FLOWS - OCT. - JAN.

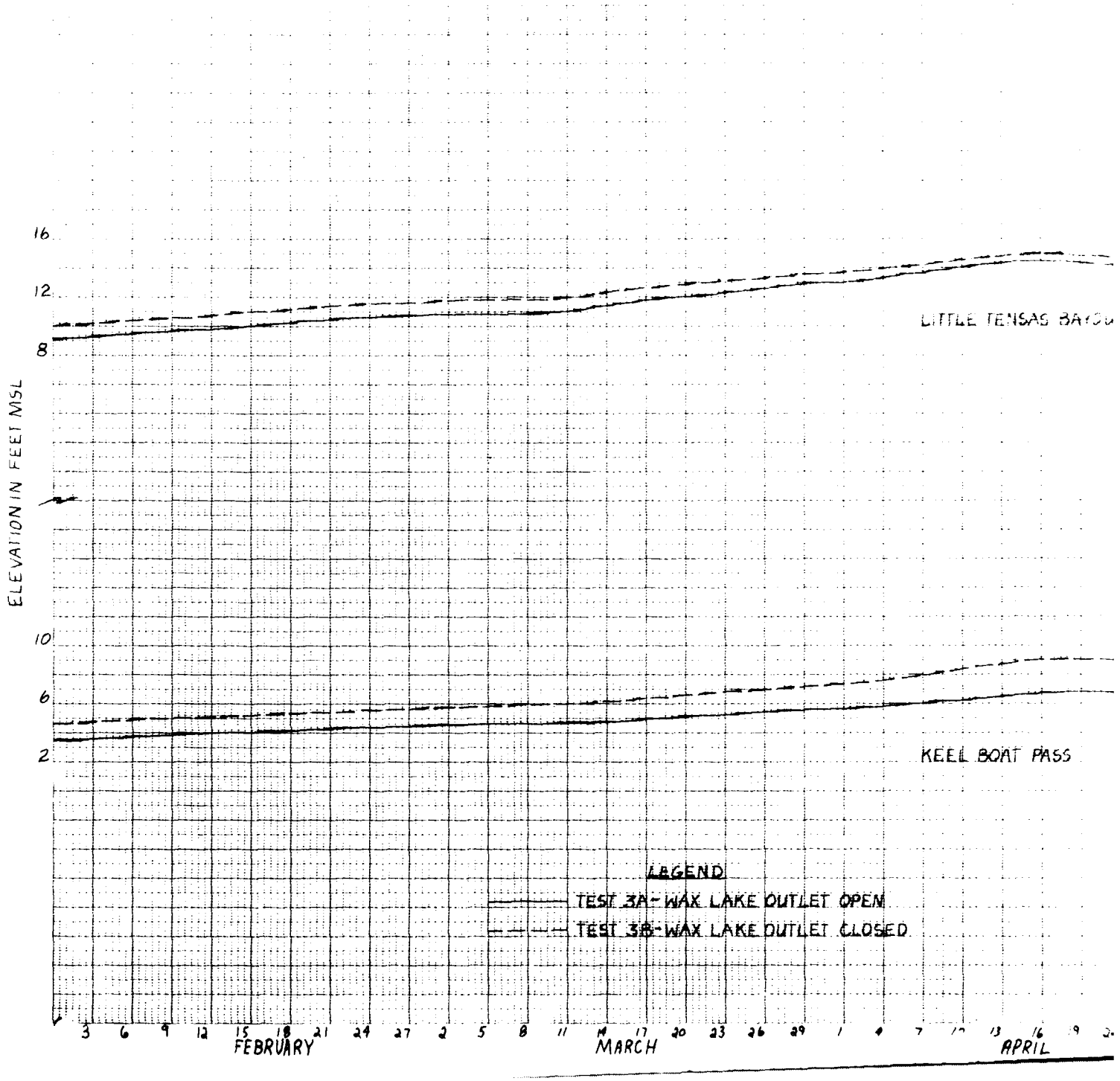
EAST ATCHAFALAYA BASIN

LITTLE TENSAS BAYOU - KEEL BOAT PASS

4 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31

NOVEMBER DECEMBER JANUARY

PLATE 120


ELEVATION IN FEET MSL
16
12
8
10
6
2
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19
FEBRUARY
MARCH
APRIL

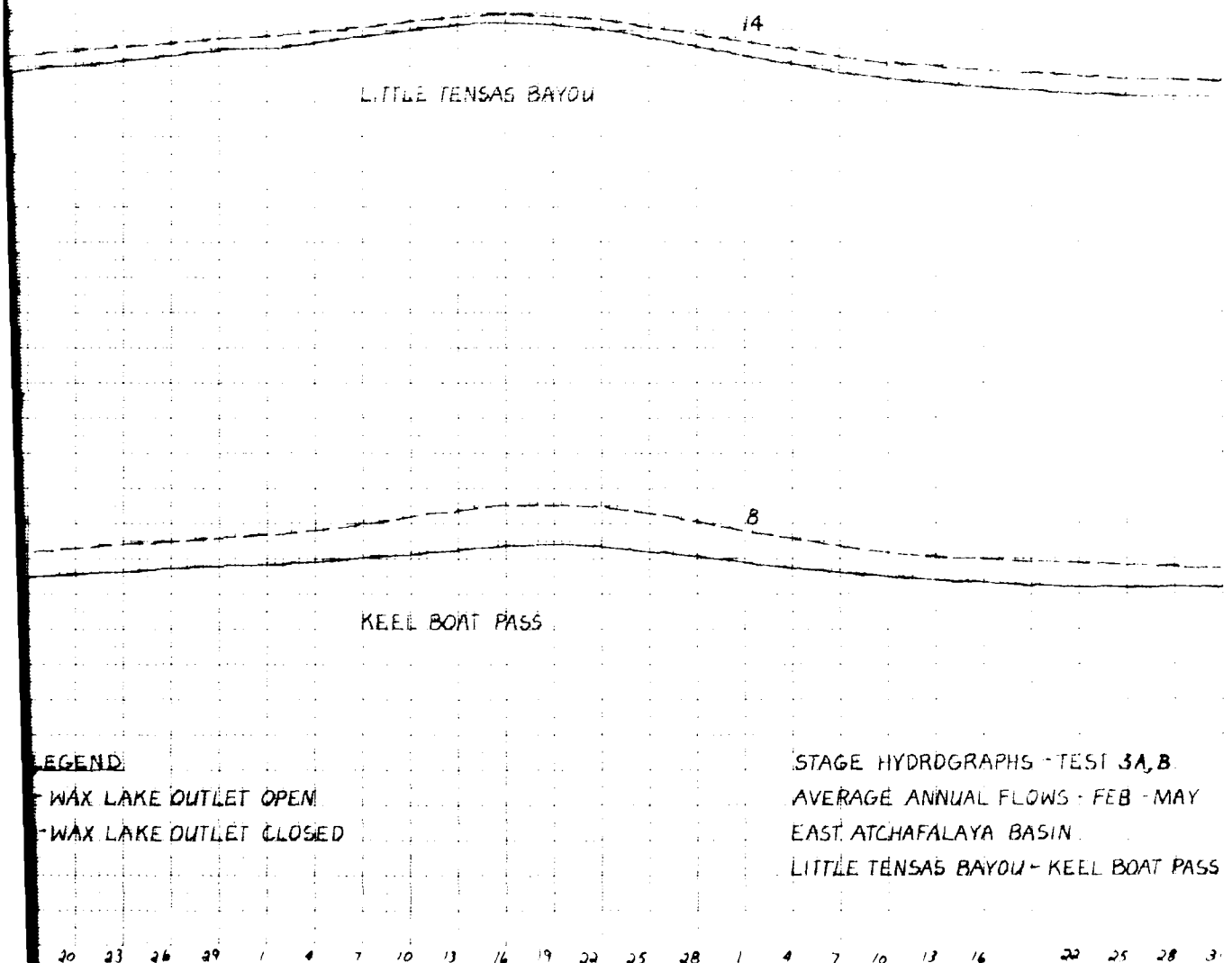
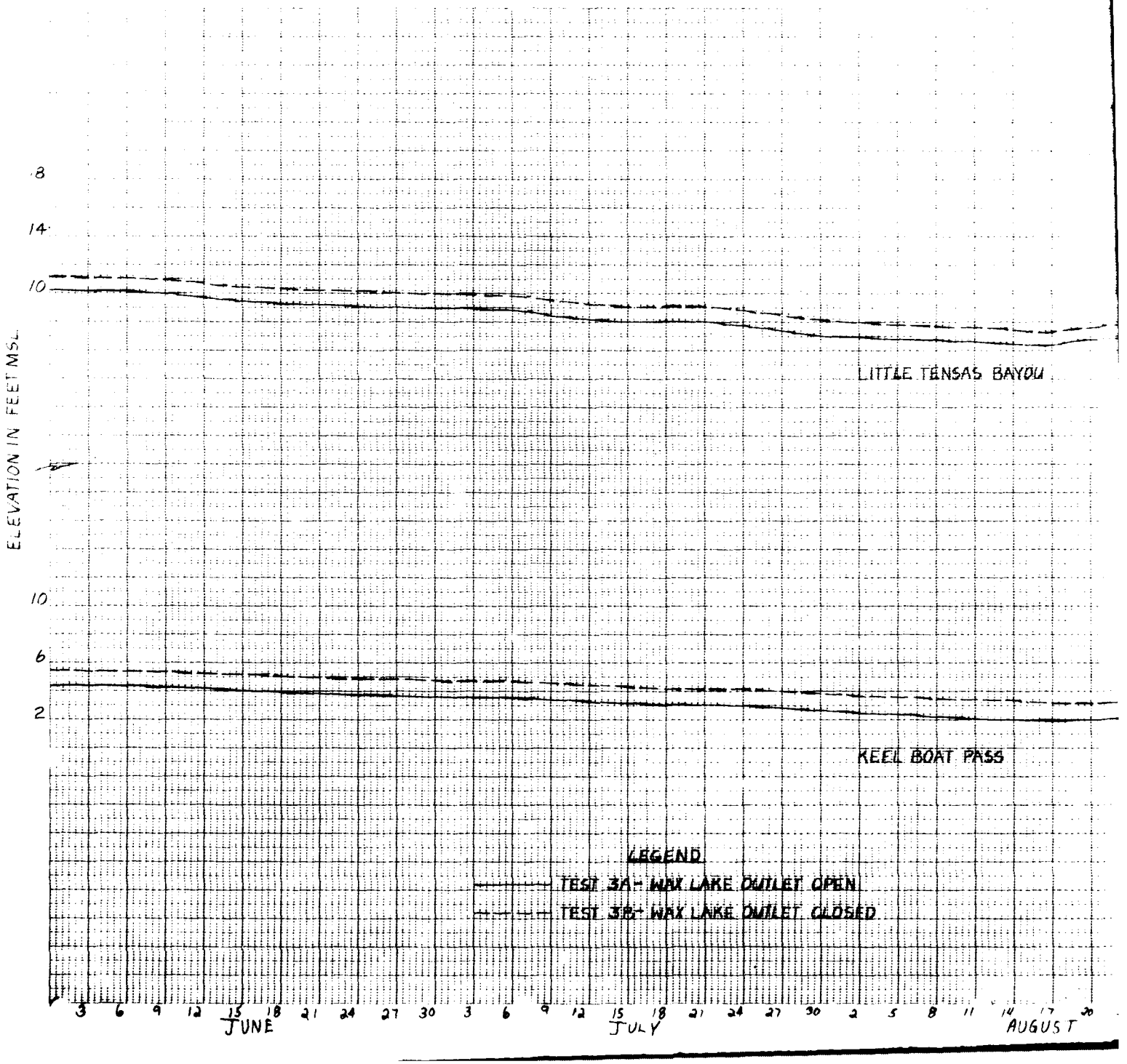

14
LITTLE TENSAS BAYOU
8
KEEL BOAT PASS
LEGEND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE 121


8
14
10
ELEVATION IN FEET MSL.
LITTLE TENSAS BAYOU
10
6
2
KEEL BOAT PASS
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

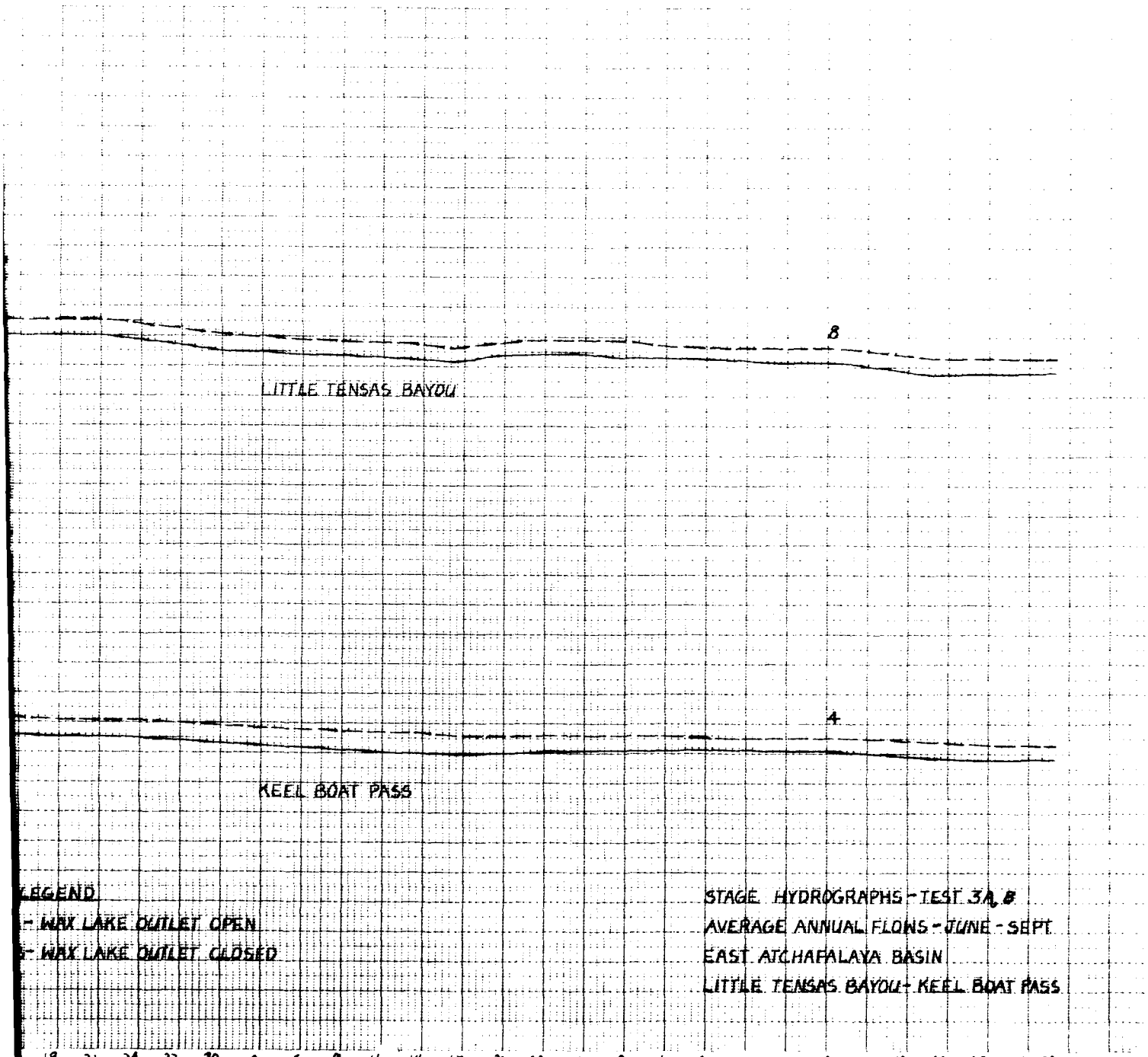
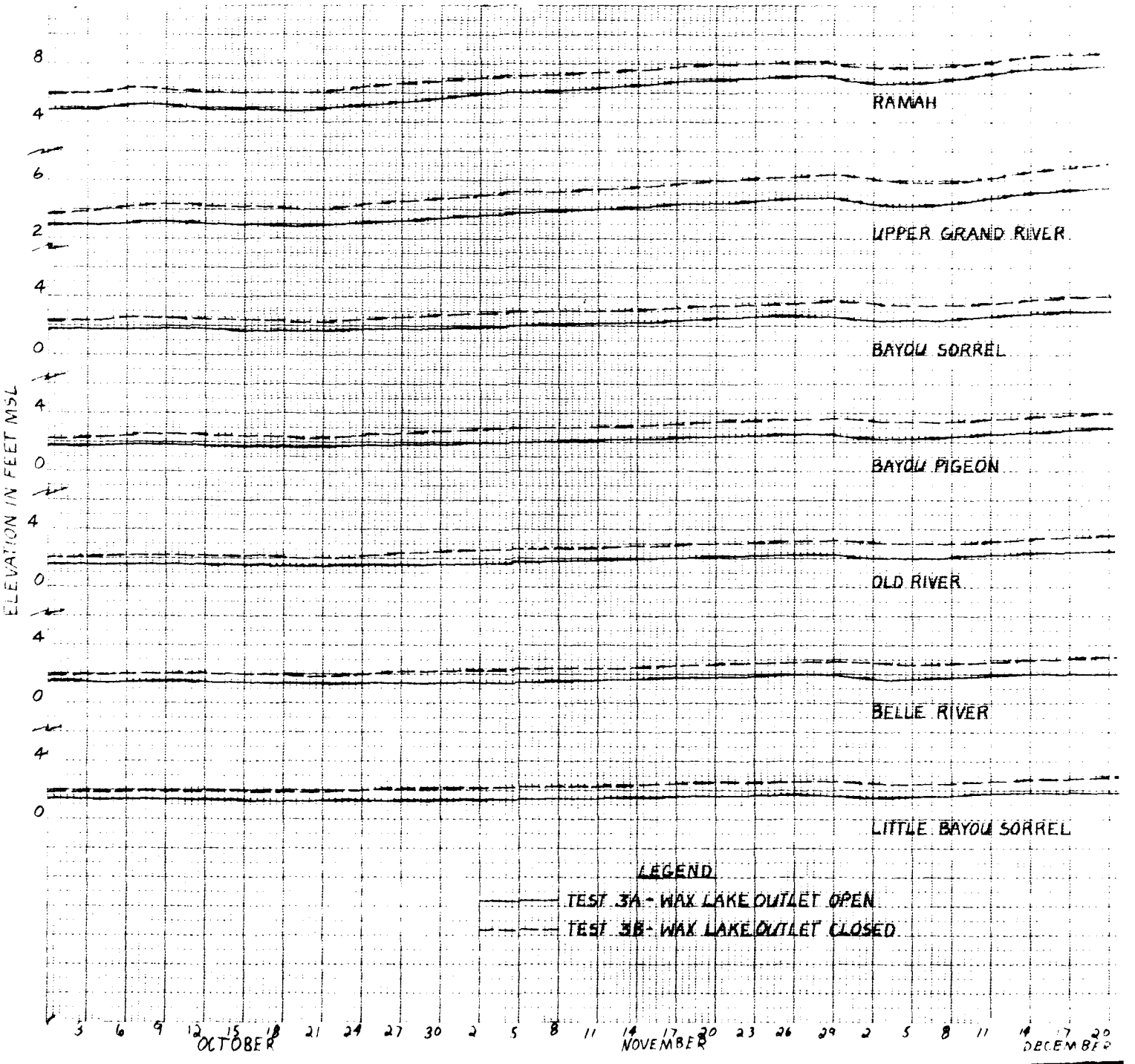
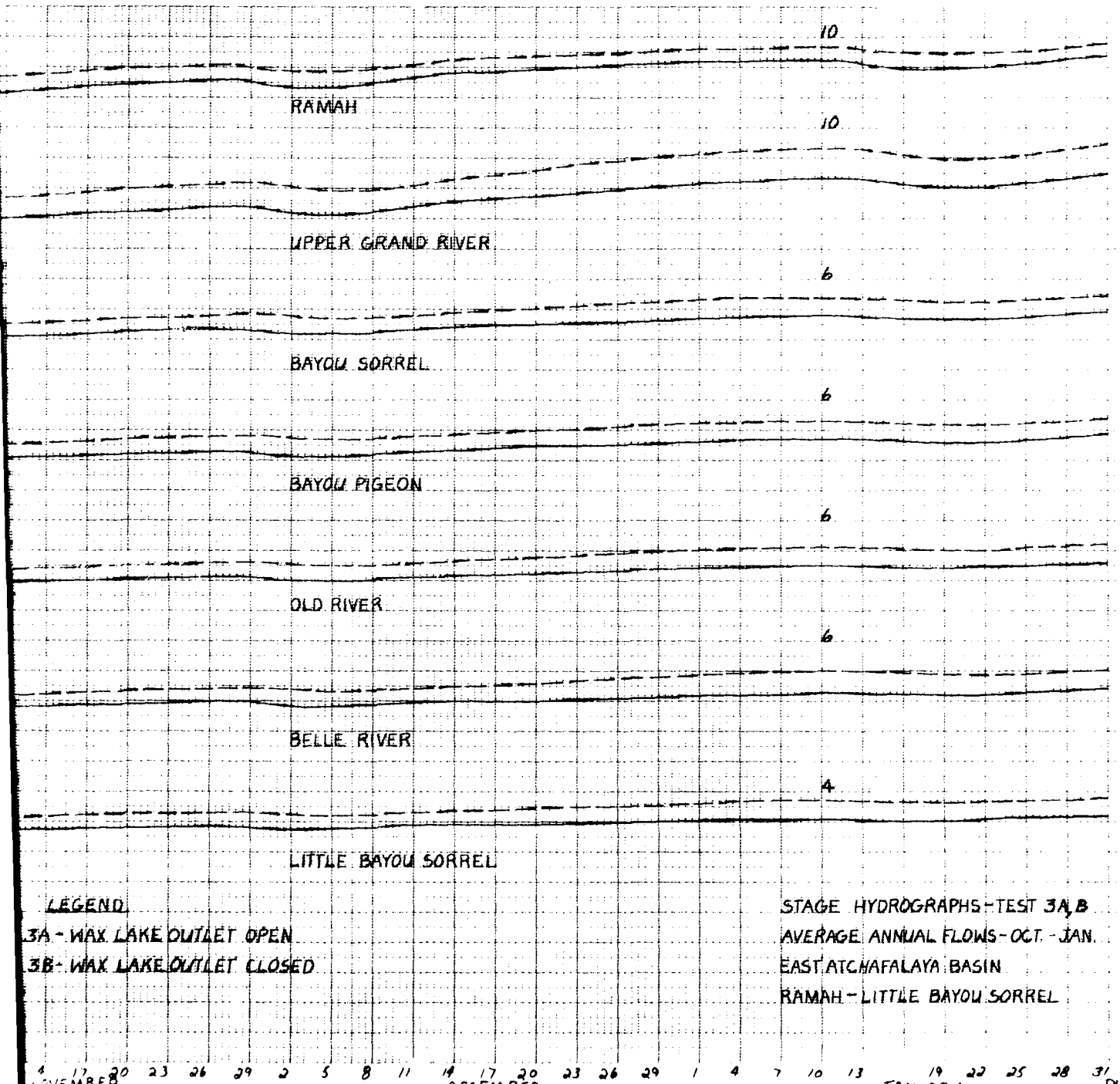

B
LITTLE TENSAS BAYOU
A
KEEL BOAT PASS
LEGEND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
Y
AUGUST
SEPTEMBER

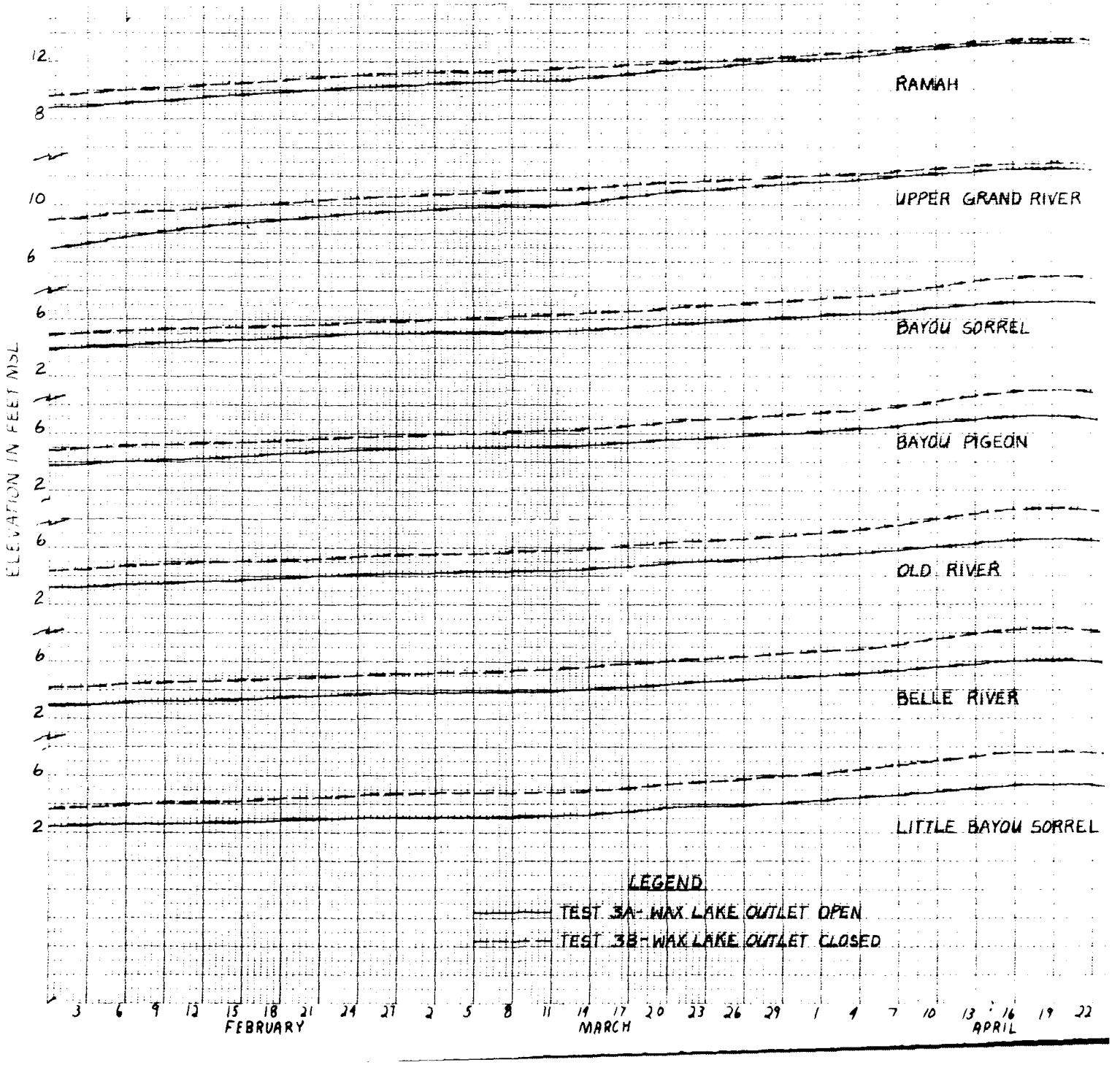
PLATE 122

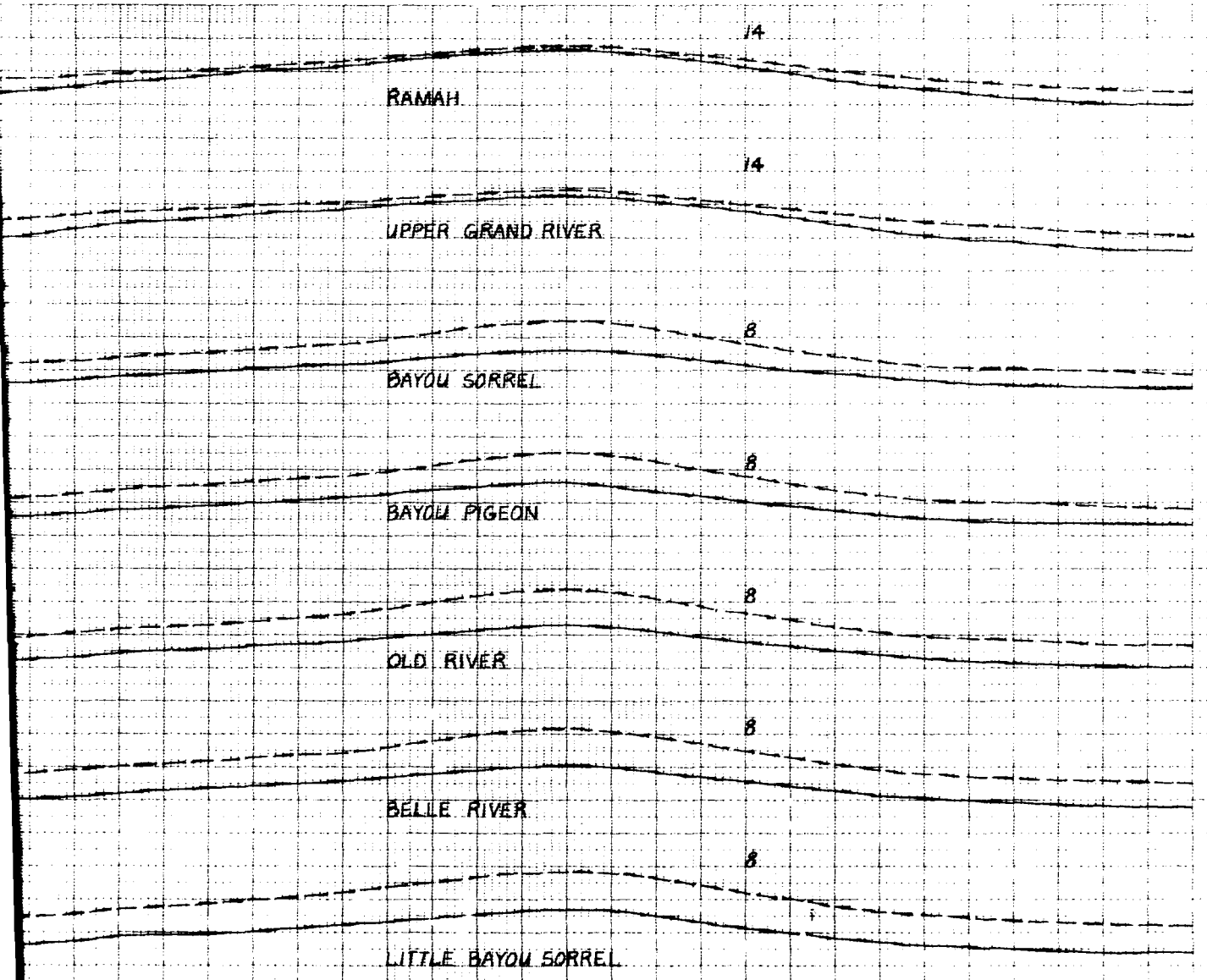

ELEVATION IN FEET MSL
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER



STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL

PLATE 123


ELEVATION IN FEET MSL
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



LEGEND

T 3A - WAX LAKE OUTLET OPEN

T 3B - WAX LAKE OUTLET CLOSED

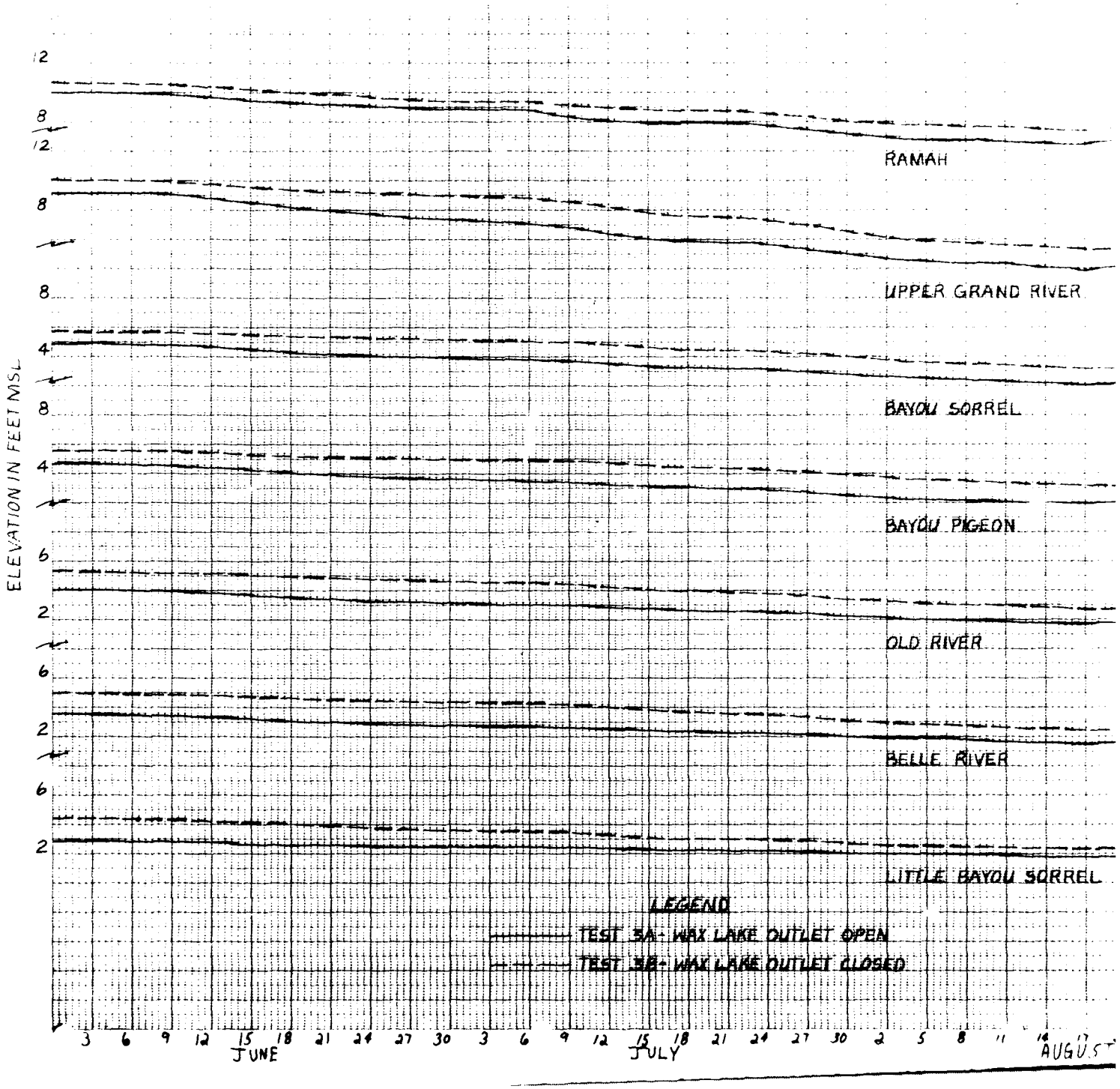
STAGE HYDROGRAPHS - TEST 3A, B

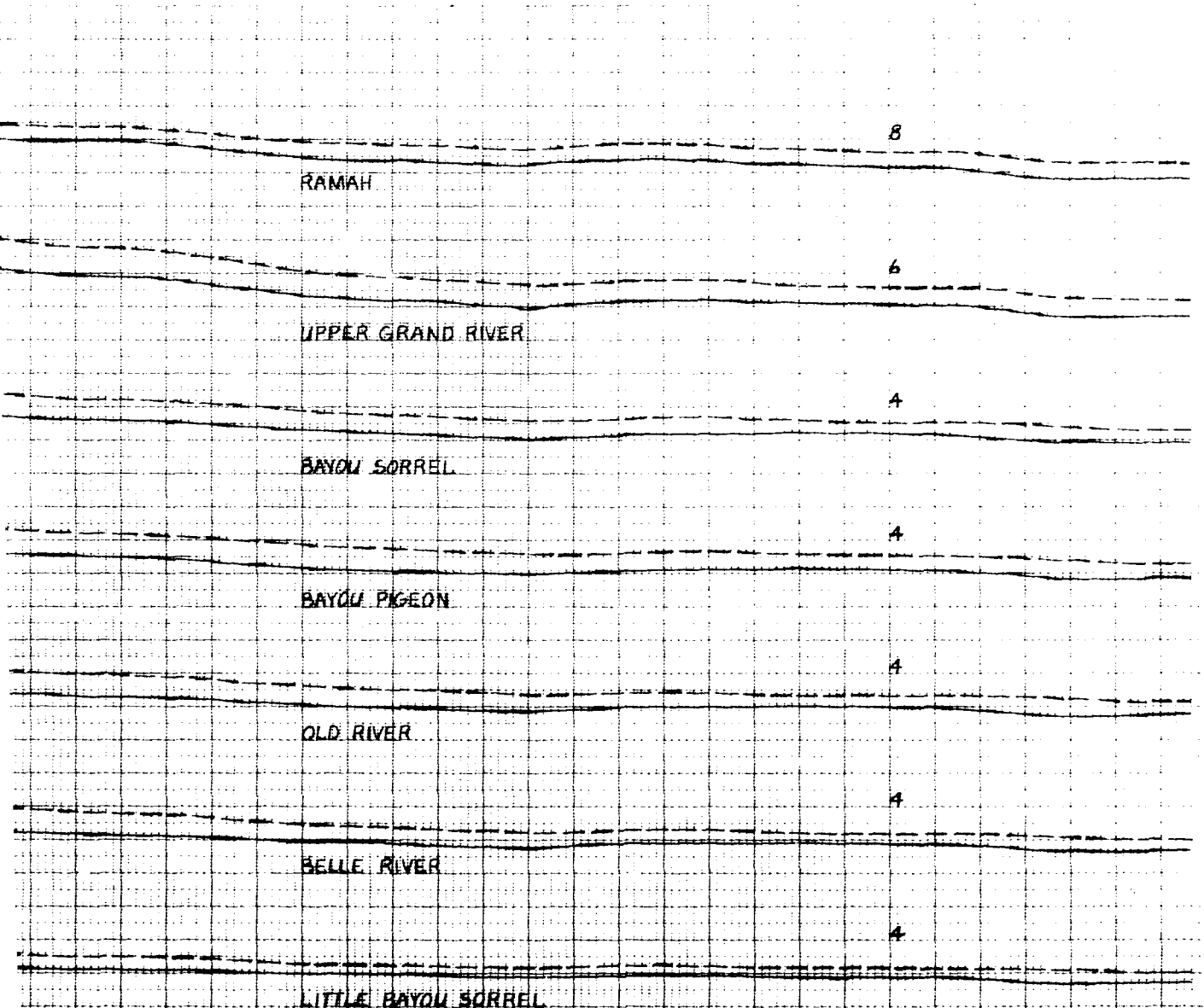
AVERAGE ANNUAL FLOWS - FEB - MAY

EAST ATCHAFALAYA BASIN

RAMAH - LITTLE BAYOU SORREL

PLATE 124


ELEVATION IN FEET MSL
12
8
12
RAMAH
8
UPPER GRAND RIVER
8
4
BAYOU SORREL
8
4
BAYOU PIGEON
6
2
OLD RIVER
6
2
BELLE RIVER
6
2
LITTLE BAYOU SORREL
LEGEND
TEST 3A- WAX LAKE OUTLET OPEN
TEST 3B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17
JUNE
JULY
AUGUST



LEGEND

1A- WAX LAKE OUTLET OPEN

1B- WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3+,B

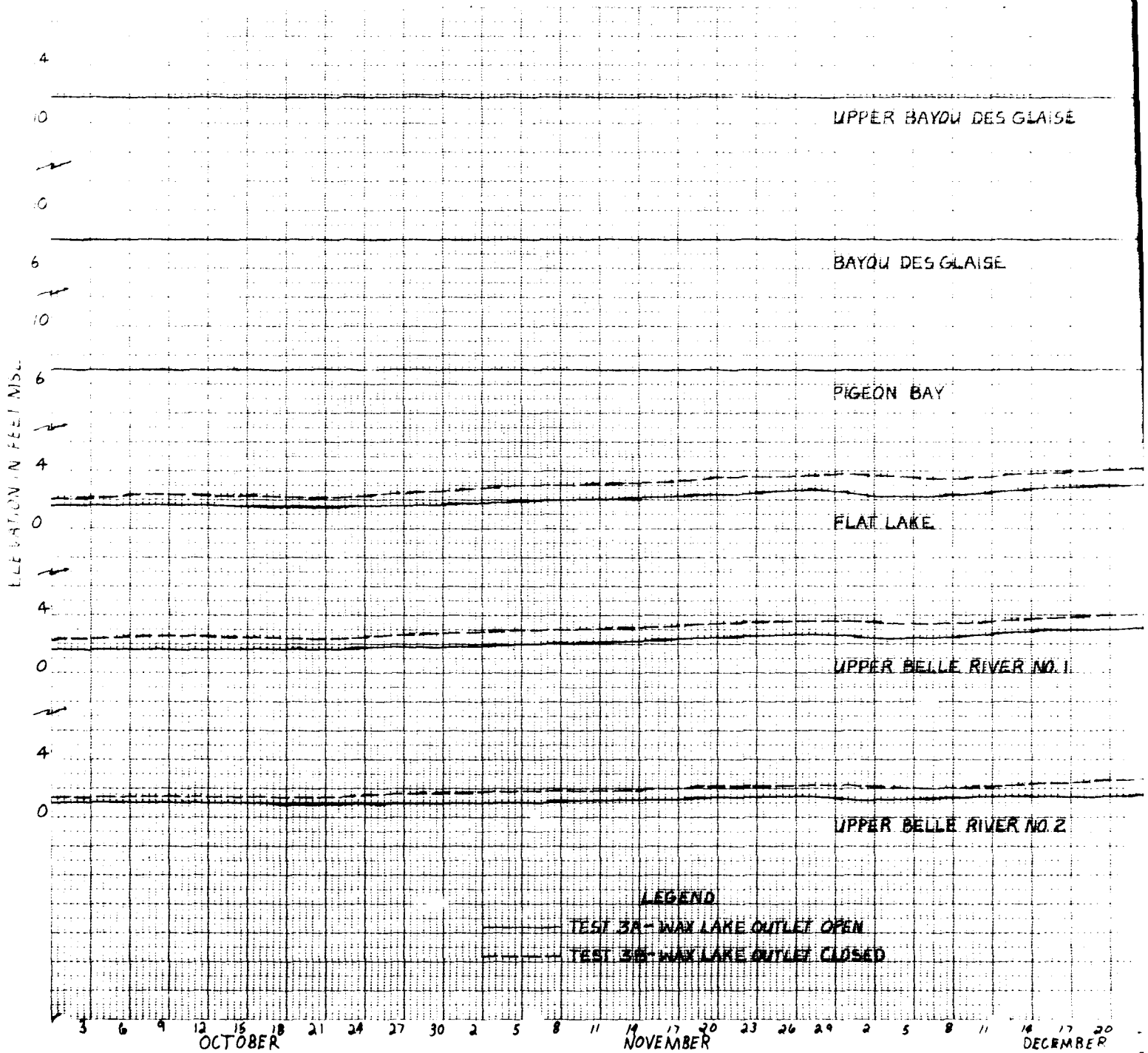
AVERAGE ANNUAL FLOWS - JUNE - SEPT.

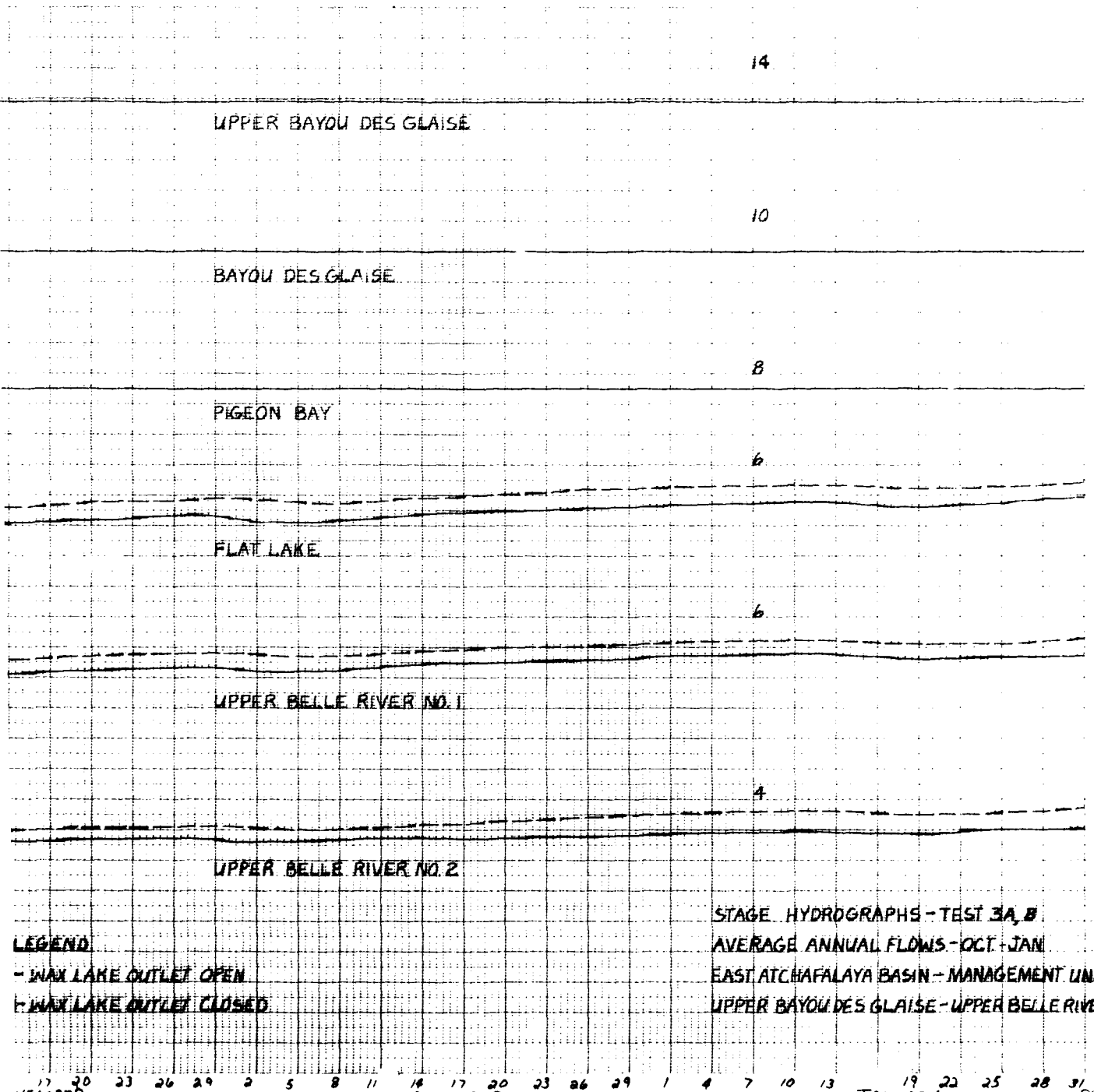
EAST ATCHAFALAYA BASIN

RAMAH - LITTLE BAYOU SORREL

JULY 18 21 24 27 30 AUGUST 2 5 8 11 14 17 20 23 26 29 SEPTEMBER 1 4 7 10 13 16 19 22 25 28 30

PLATE 125


UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

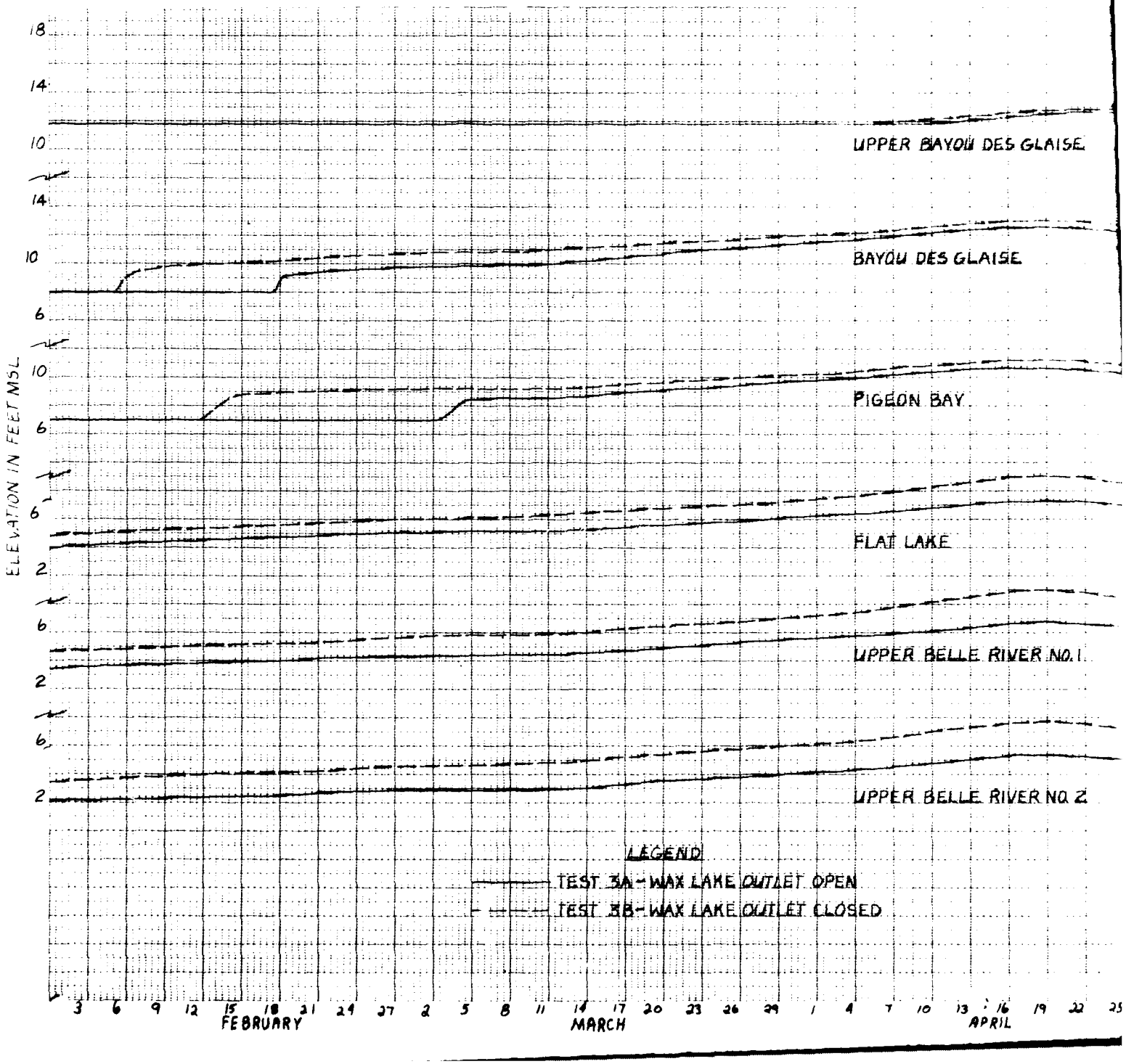


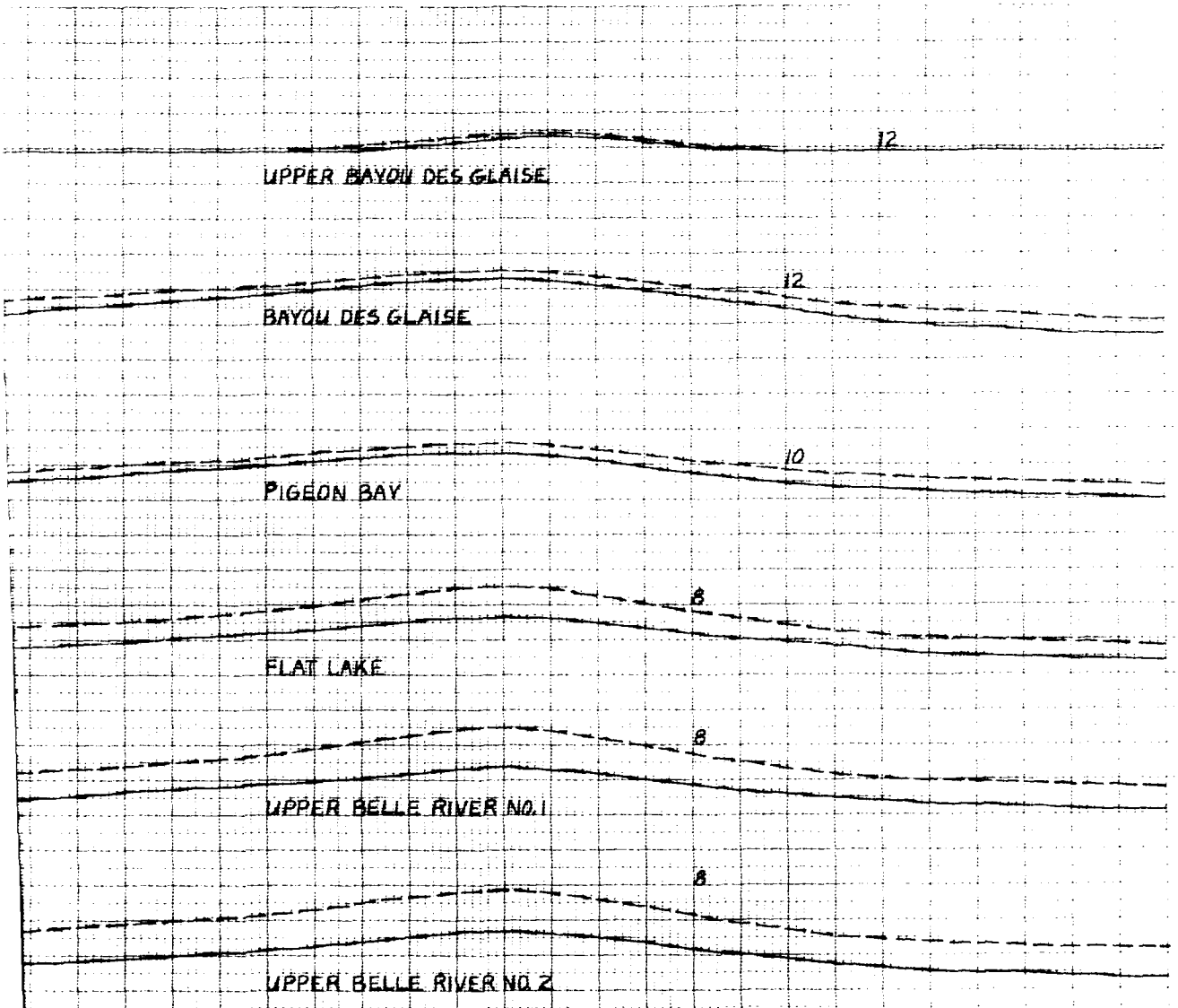
LEGEND

- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2

PLATE 126


ELEVATION IN FEET MSL
UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

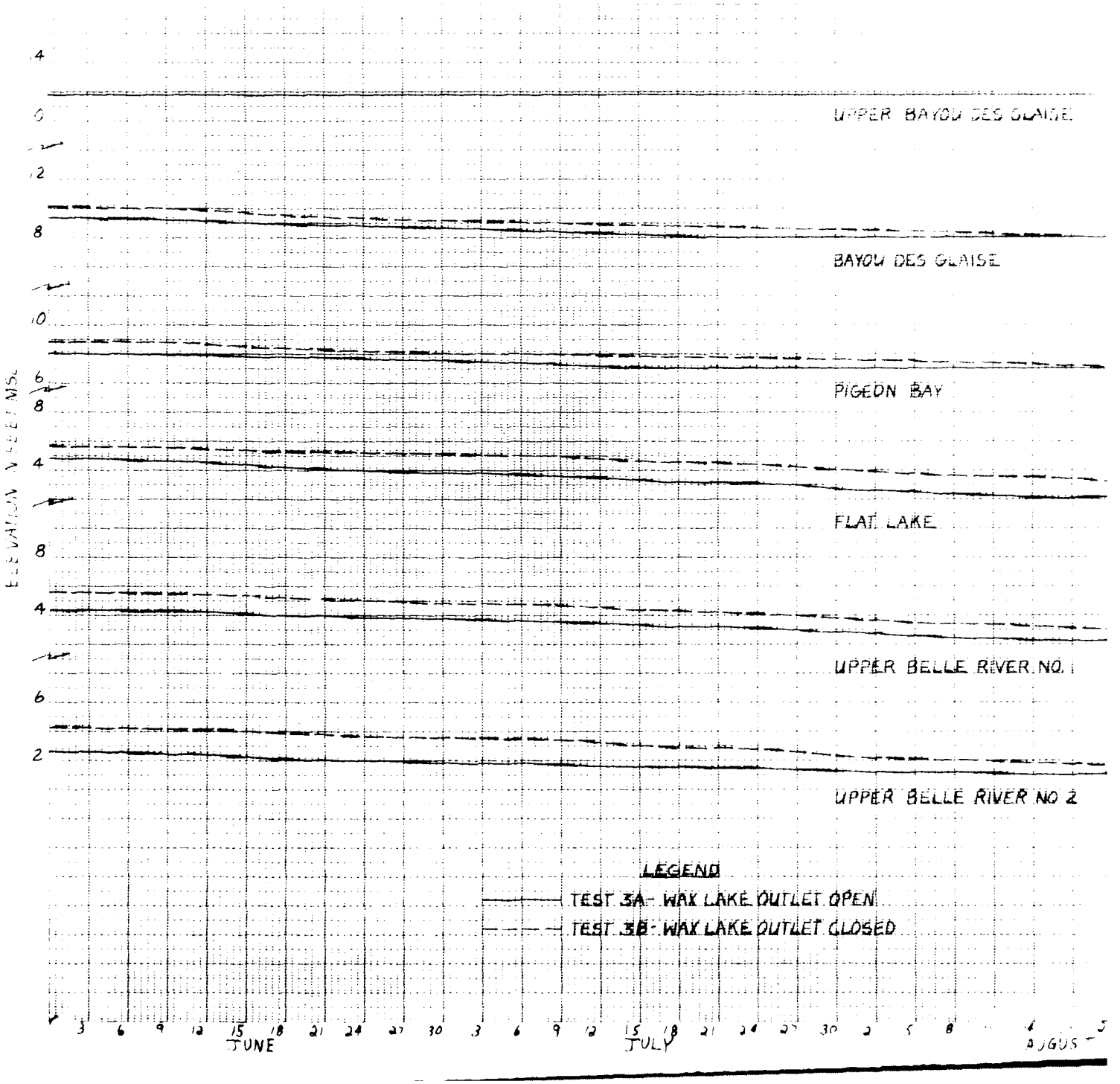


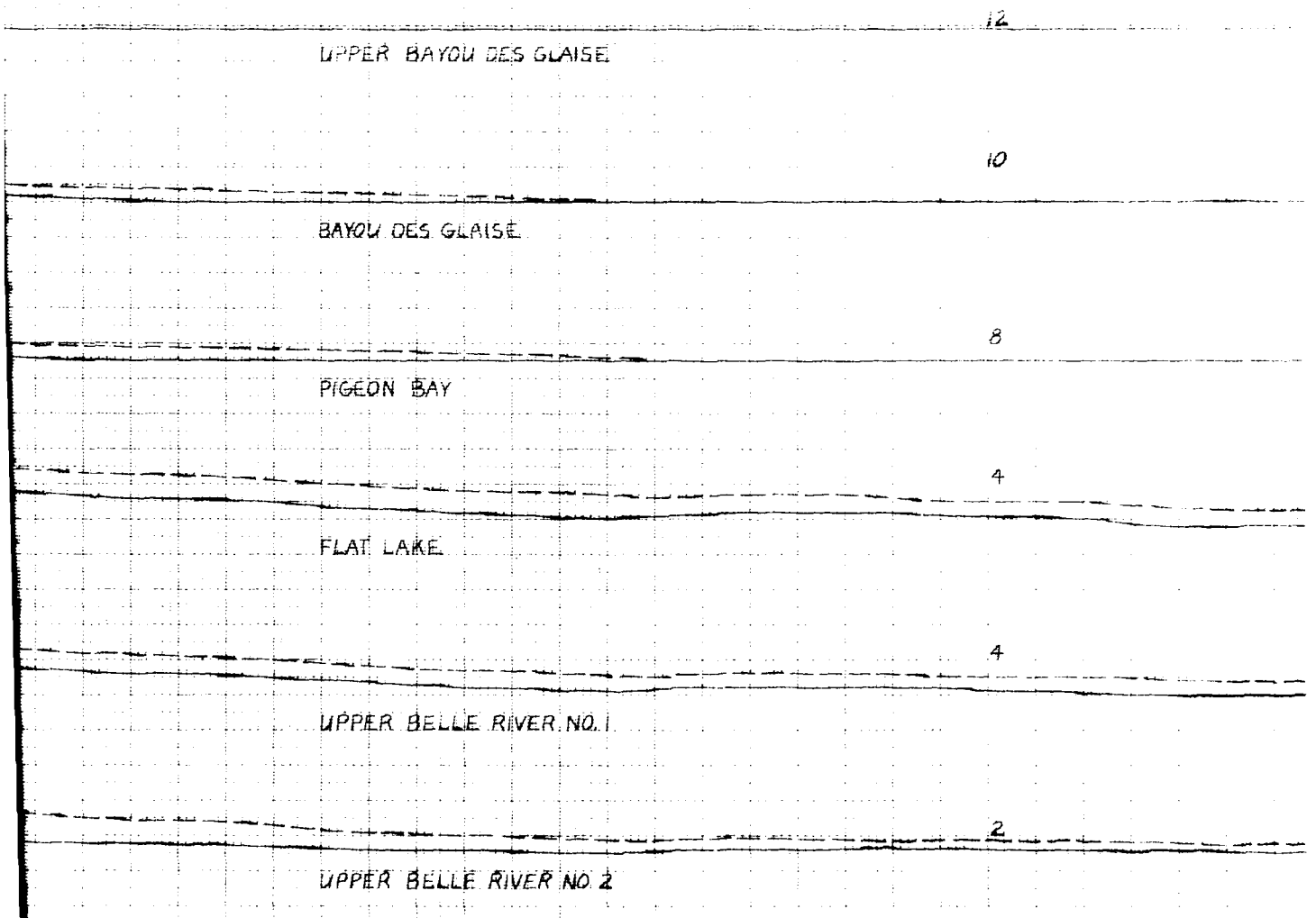
END
AX LAKE OUTLET OPEN
AX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B.
AVERAGE ANNUAL FLOWS - FEB - MAY
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS.
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2.

23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL MAY

PLATE 27


UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO 2
LEGEND
TEST 3A - WAX LAKE OUTLET OPEN
TEST 3B - WAX LAKE OUTLET CLOSED
JUNE
JULY



LEGEND

ST 3A - WAX LAKE OUTLET OPEN

ST 3B - WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 3A, B

AVERAGE ANNUAL FLOWS - JUNE - SEPT

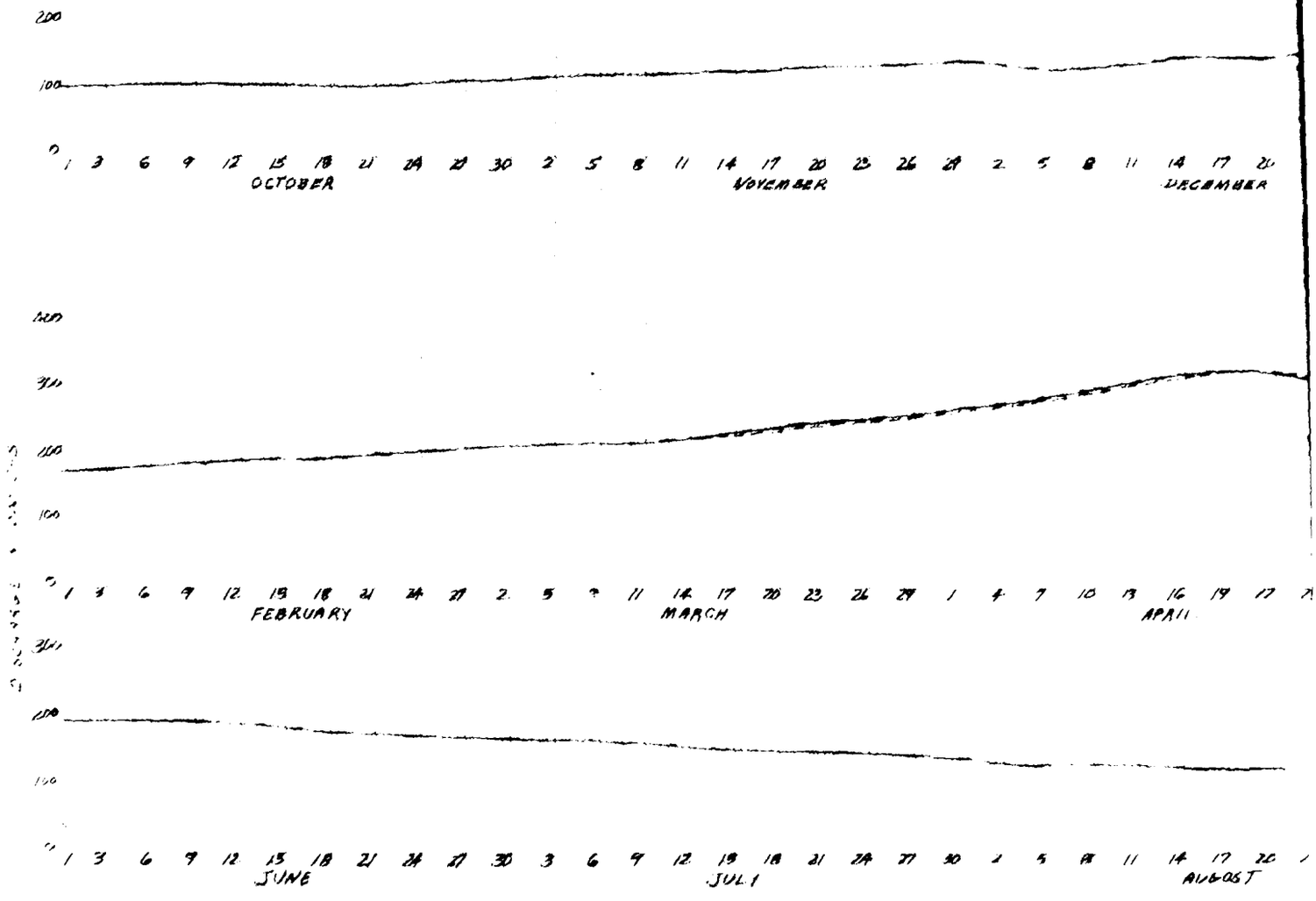
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS

UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO 2

15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 30

JULY AUGUST SEPTEMBER

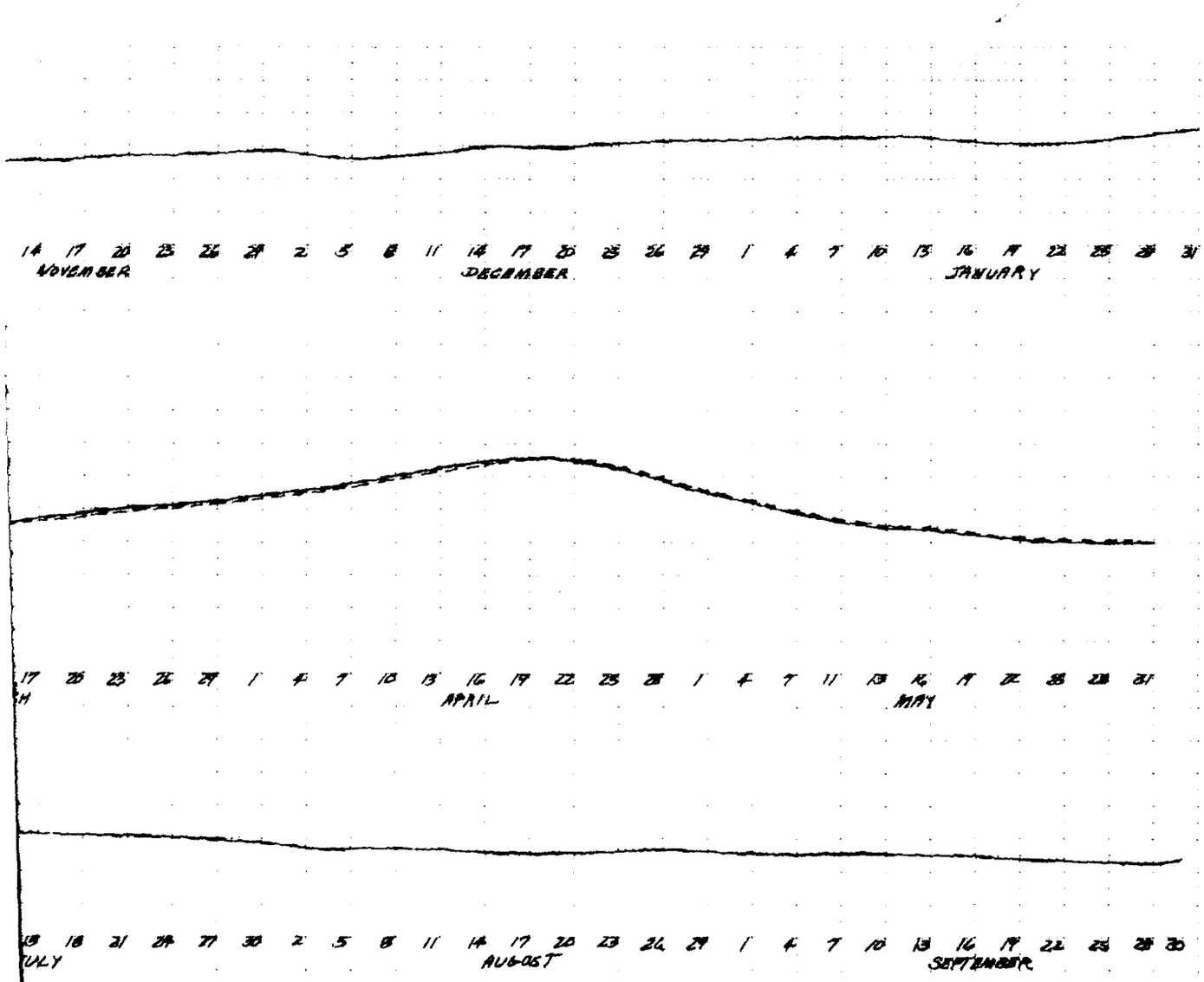
PLATE 28



LEGEND.

TEST 3A - WAX LAKE OUTLET OPEN

TEST 3B - WAX LAKE OUTLET CLOSED



LEGEND.

EST 3A - WAX LAKE OUTLET OPEN

ST 3B - WAX LAKE OUTLET CLOSED

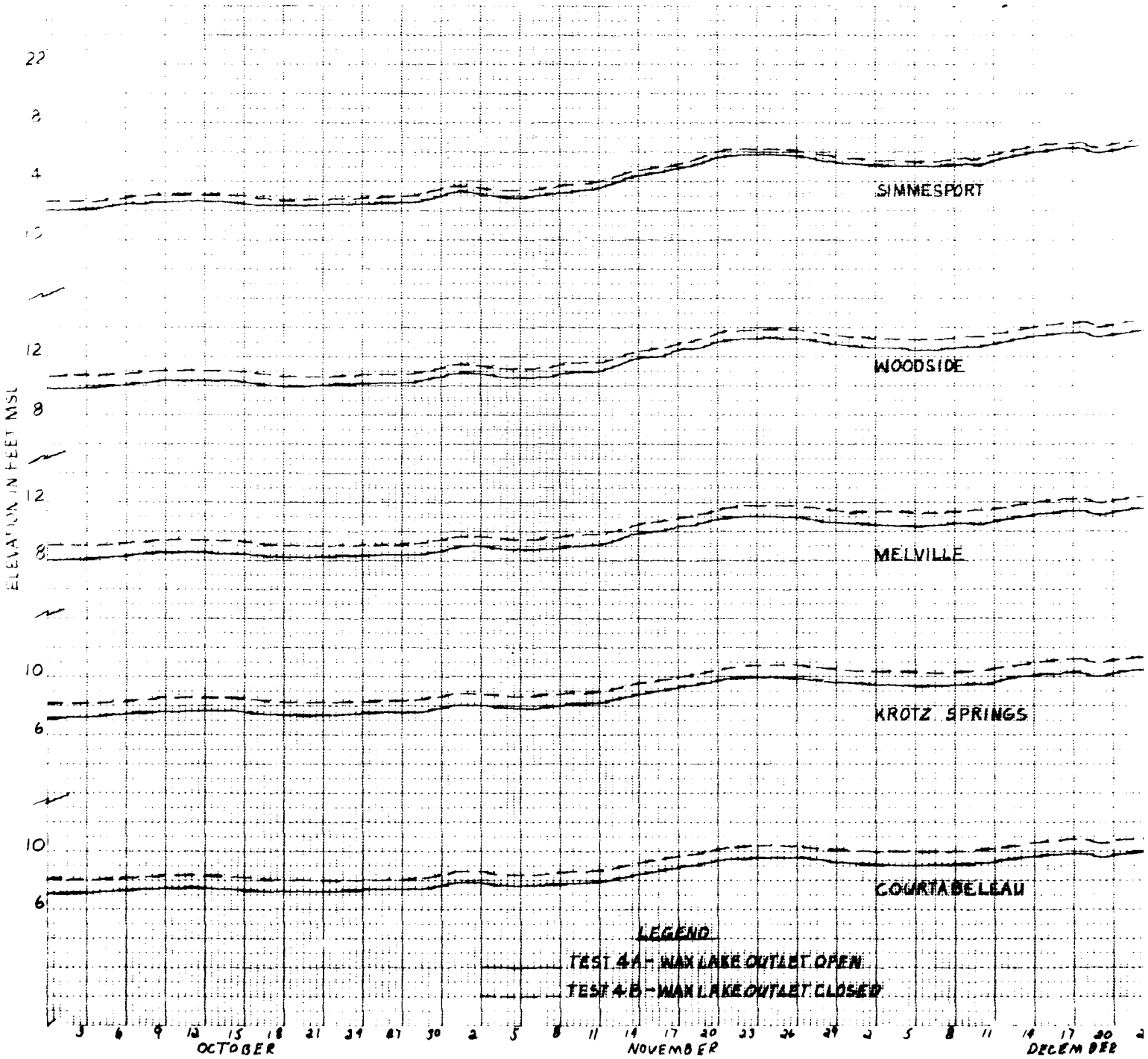
DISCHARGE HYDROGRAPHS TEST 3A, B

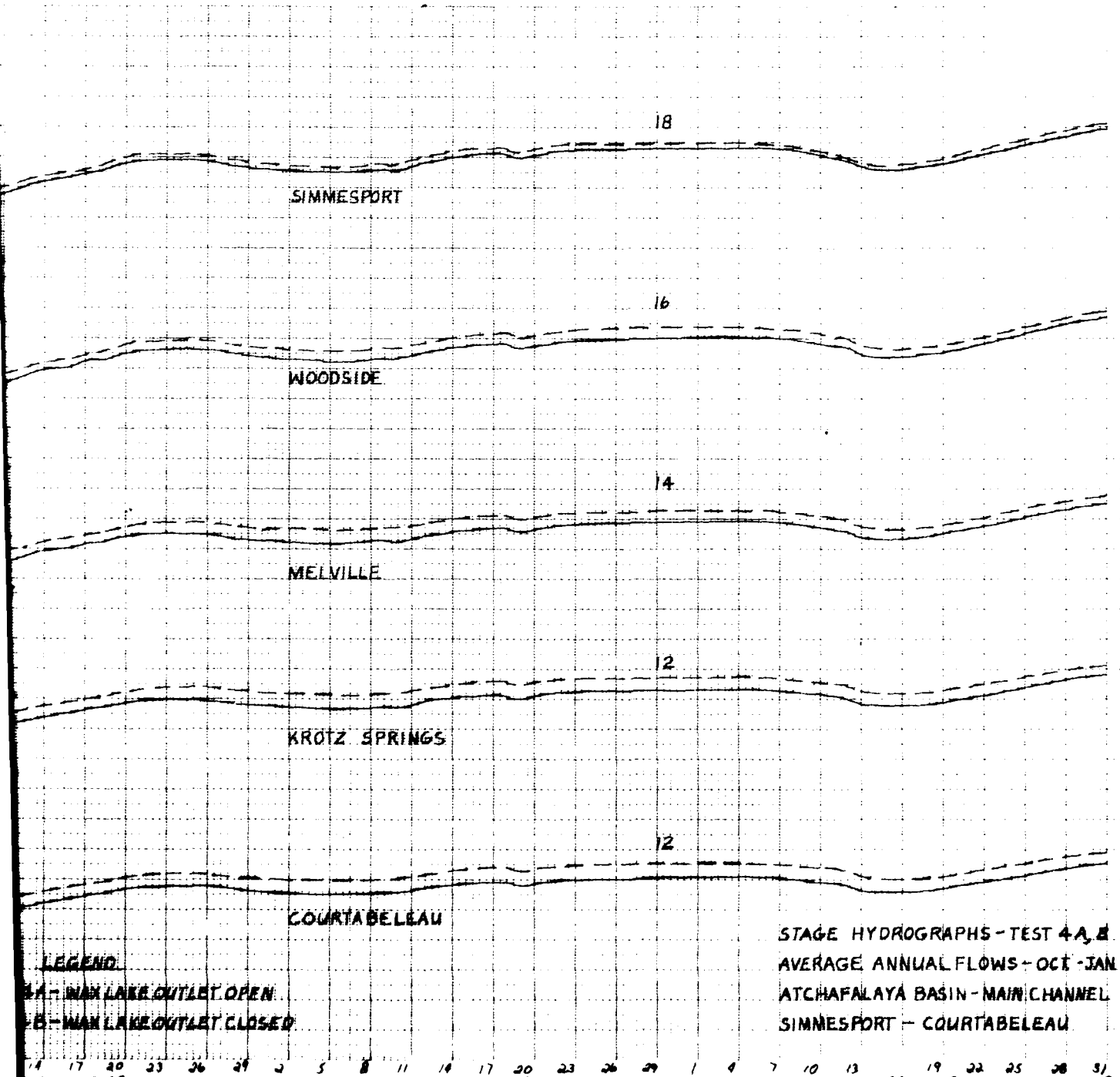
AVERAGE ANNUAL FLOWS - OCT. - SEPT.

ATCHAFALAYA BAY

EUGENE ISLAND, LA.

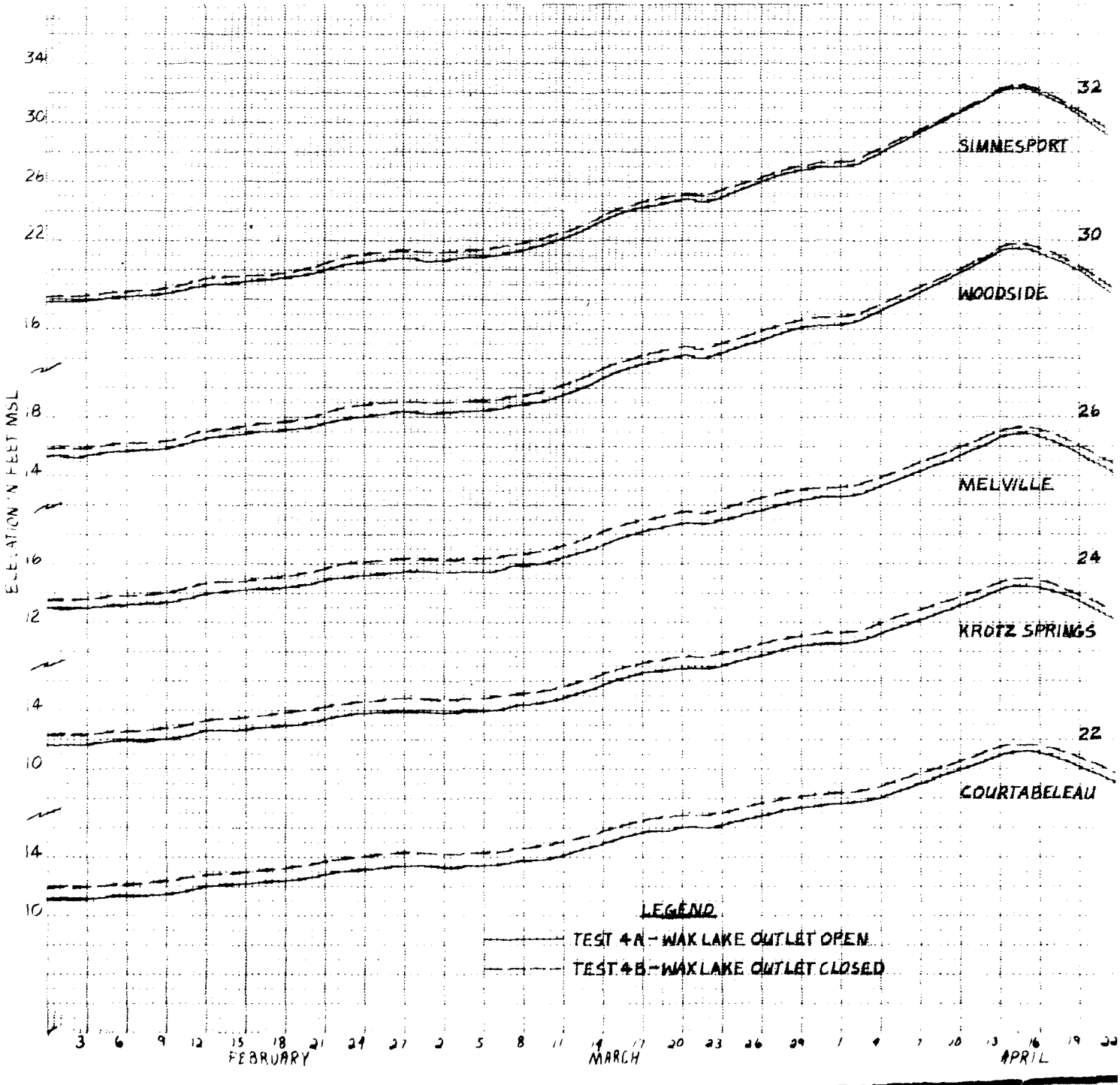
PLATE 129

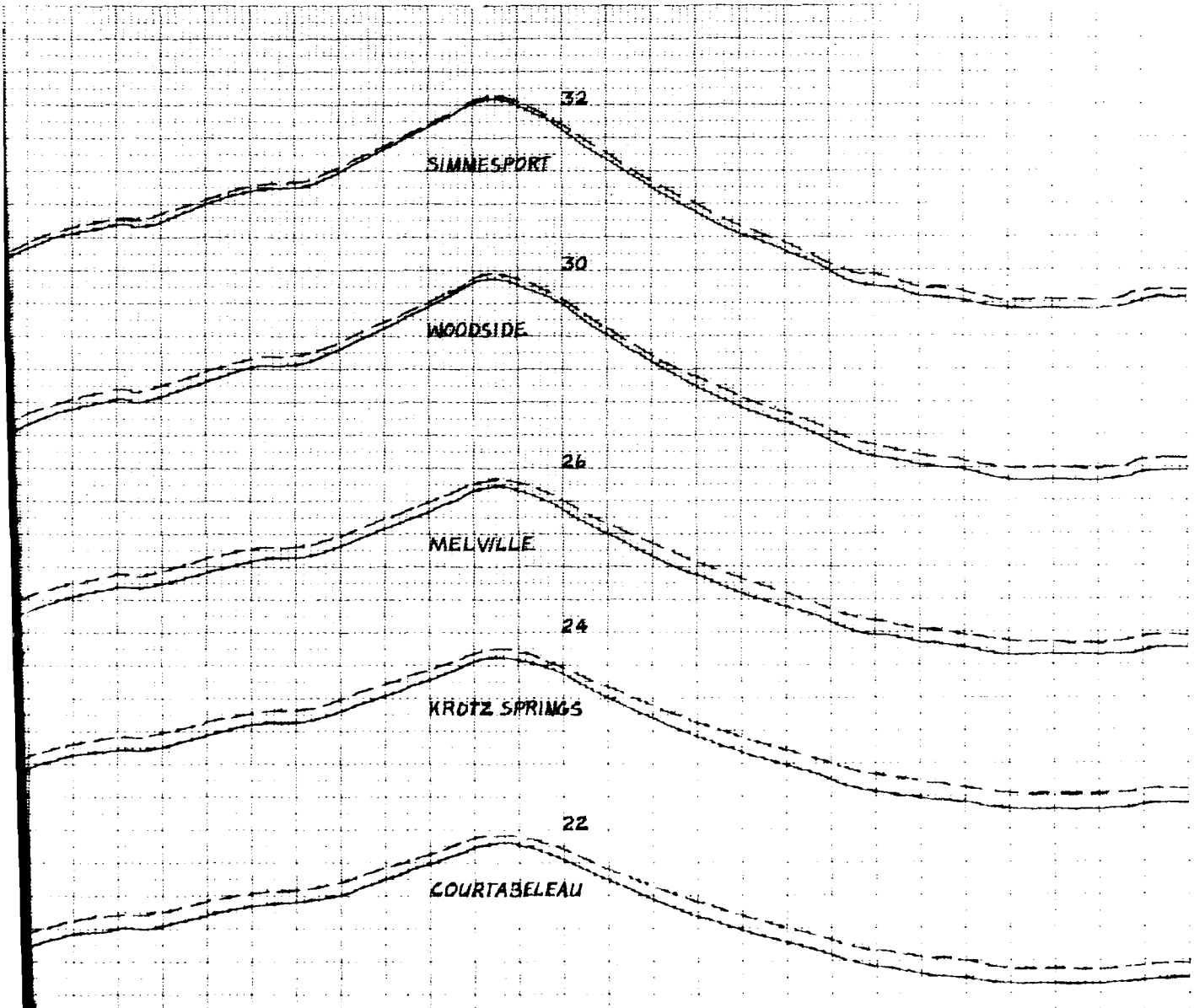

ELEVATION IN FEET MSL
22
8
4
SIMMESPORT
12
WOODSIDE
8
12
MELVILLE
8
10
KROTZ SPRINGS
6
10
COURTABELEAU
6
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER



STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - OCT - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU

PLATE 130


ELEVATION IN FEET MSL
34
30
26
22
16
18
14
16
12
14
10
14
10
32
SIMMESPORT
30
WOODSIDE
26
MELVILLE
24
KROTZ SPRINGS
22
COURTABELEAU
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL



LEGEND

4A – WAX LAKE OUTLET OPEN

4B – WAX LAKE OUTLET CLOSED

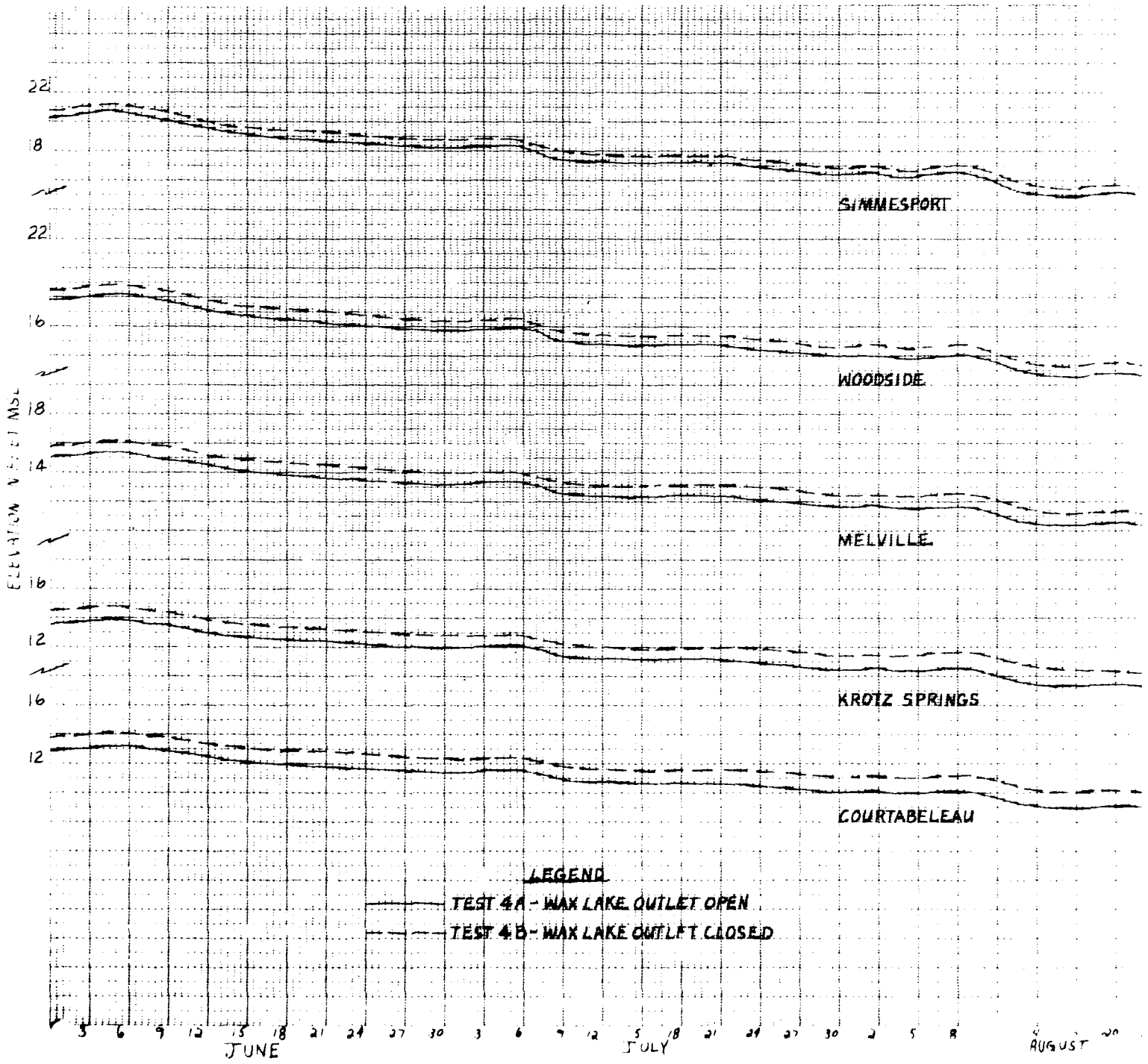
STAGE HYDROGRAPHS – TEST 4A,B

AVERAGE ANNUAL FLOWS – FEB – MAY

ATCHAFALAYA BASIN – MAIN CHANNEL

SIMMESPORT – COURTABELEAU

PLATE 131


SIMMESPORT
WOODSIDE
MELVILLE
KROTZ SPRINGS
COURTABELEAU
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
JUNE
JULY
AUGUST

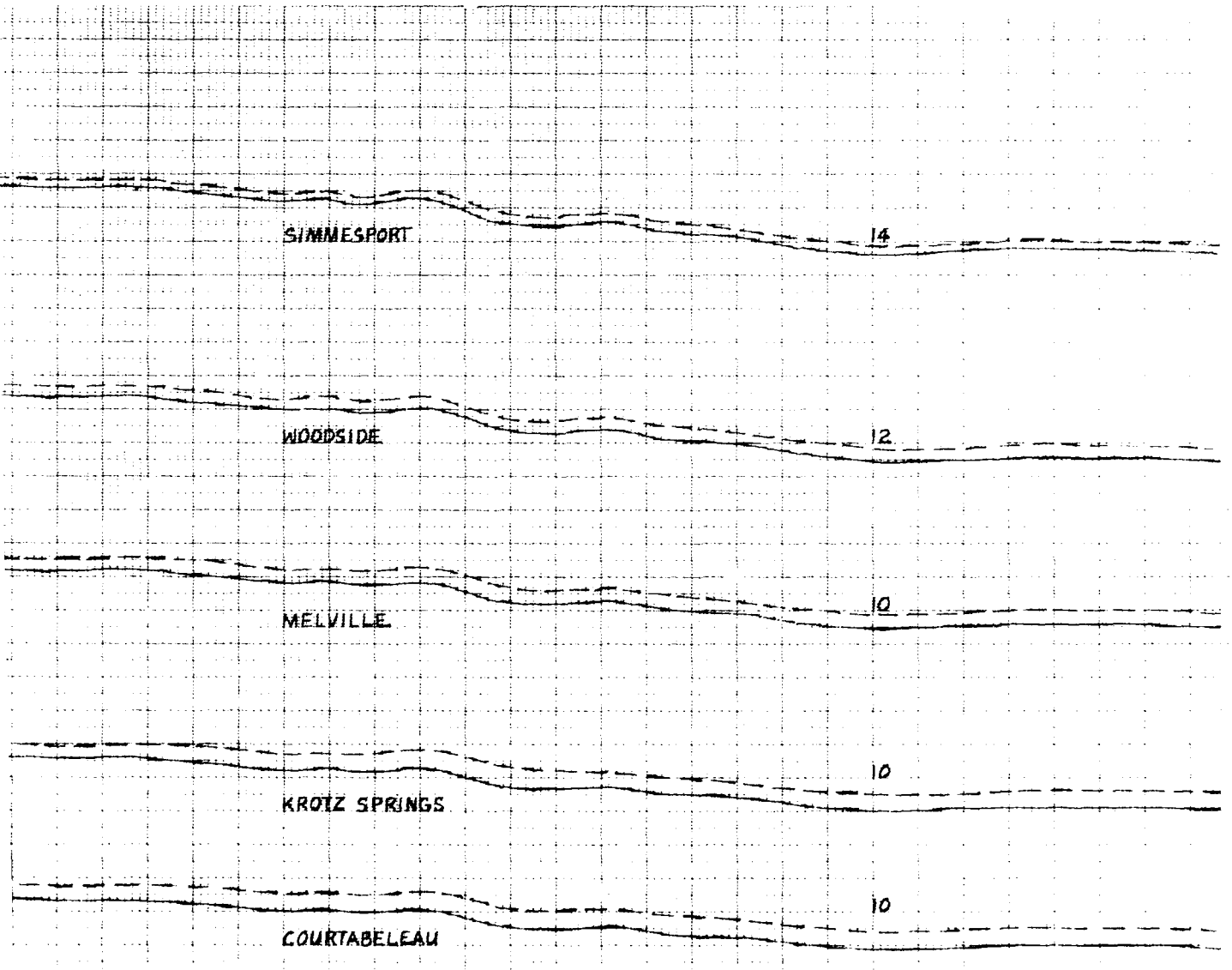
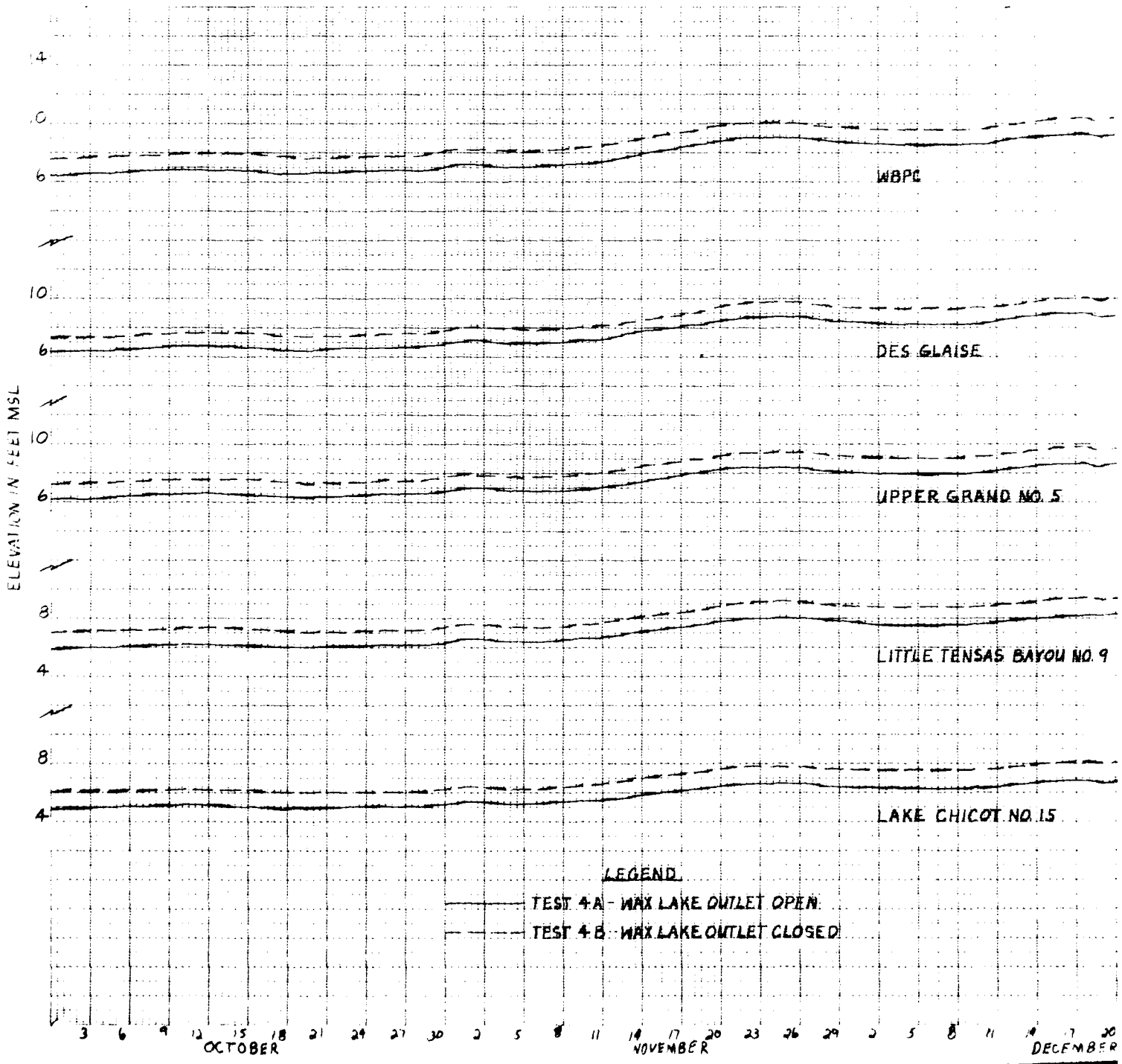

SIMMESPORT
14
WOODSIDE
12
MELVILLE
10
KROTZ SPRINGS
10
COURTABELEAU
10
KE OUTLET OPEN
KE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4 A,B
AVERAGE ANNUAL FLOWS - JUNE-SEPT
ATCHAFALAYA BASIN - MAIN CHANNEL
SIMMESPORT - COURTABELEAU
5 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 32


ELEVATION IN FEET MSL
WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO. 9
LAKE CHICOT NO. 15
LEGEND
TEST 4-A - WAX LAKE OUTLET OPEN
TEST 4-B - WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER

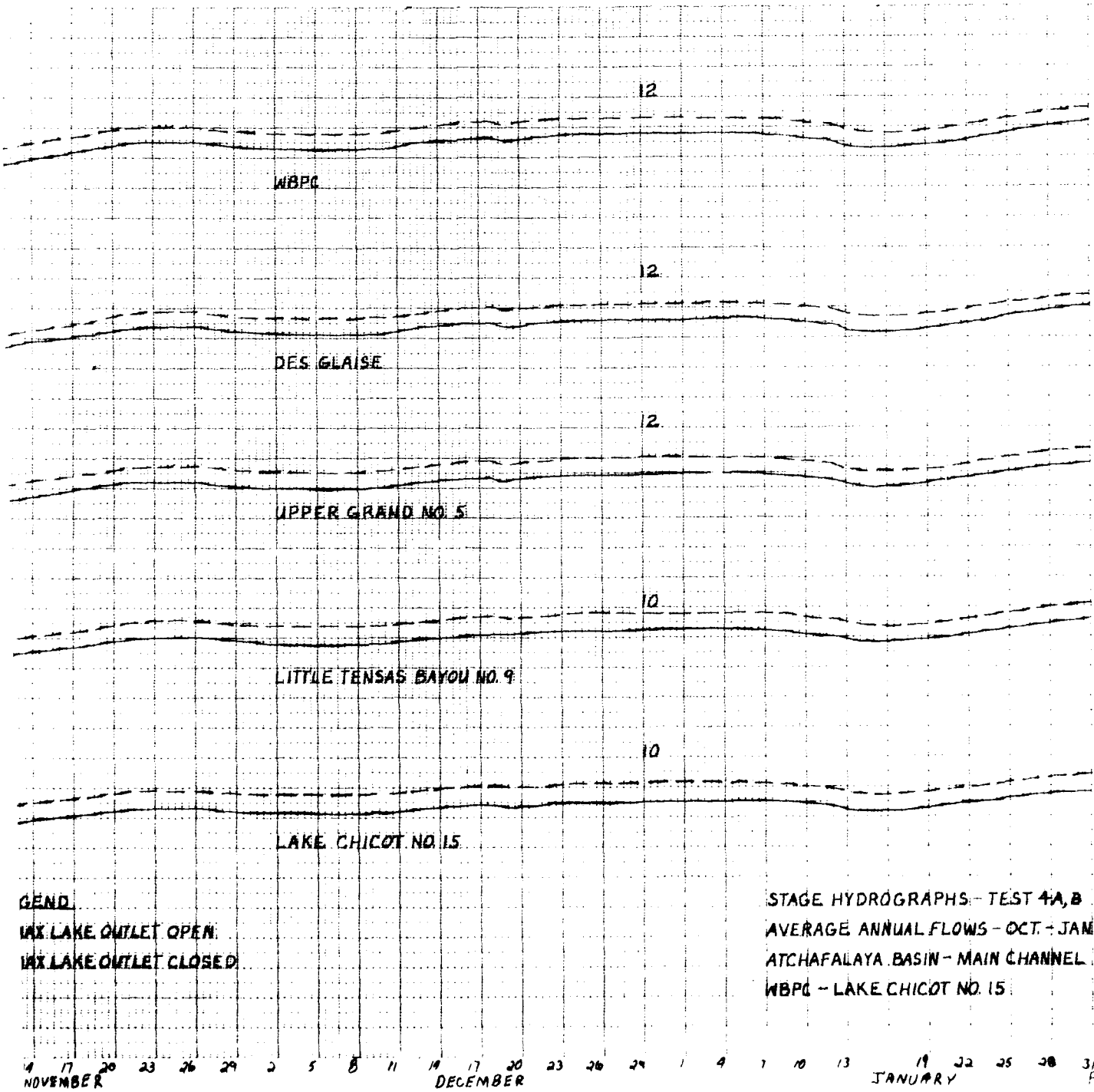
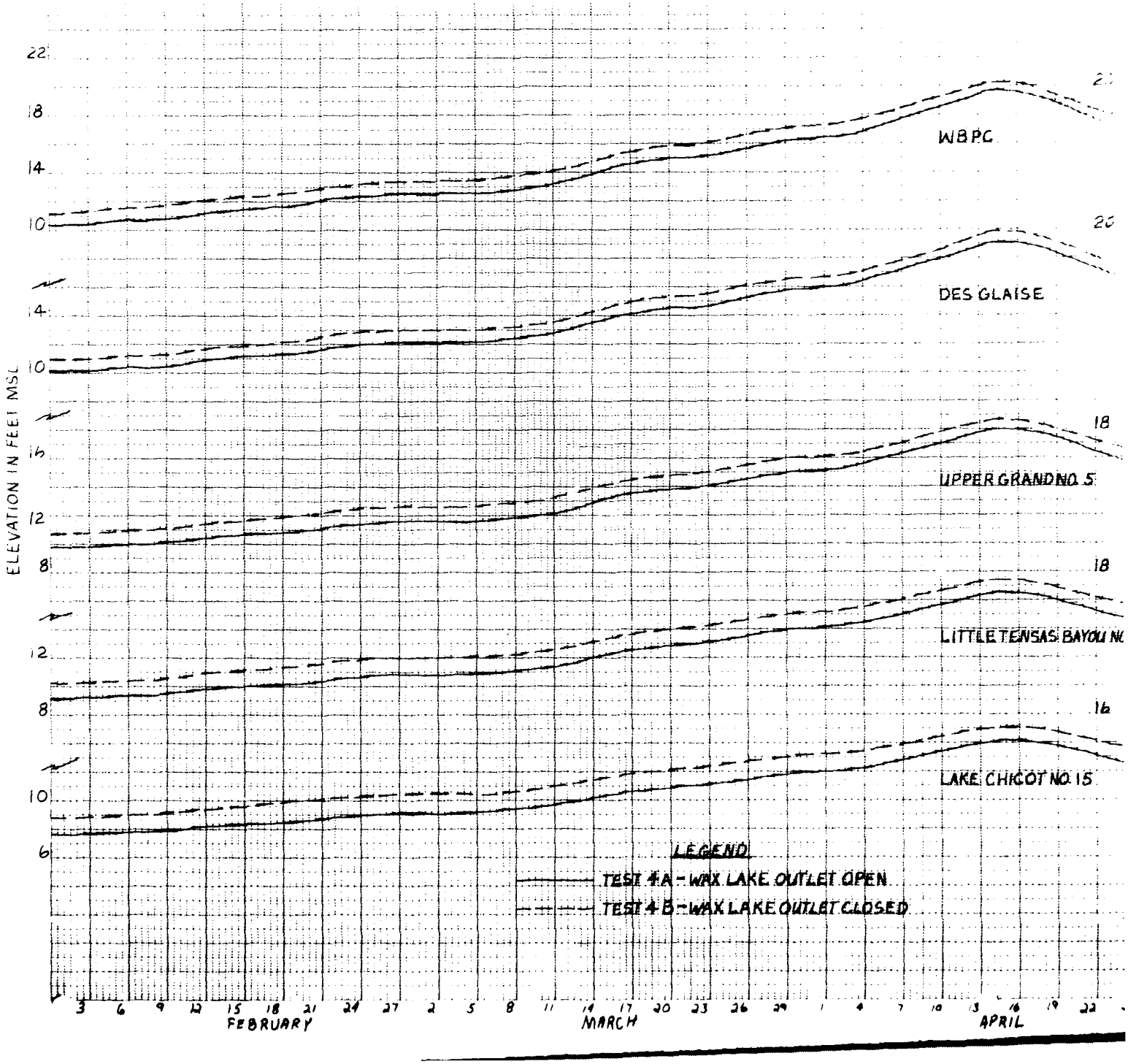

12
WBPC
12
DES GLAISE
12
UPPER GRAND NO. 5
10
LITTLE TENSAS BAYOU NO. 9
10
LAKE CHICOT NO. 15
LEGEND
IAX LAKE OUTLET OPEN
IAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
NOVEMBER
DECEMBER
JANUARY

PLATE 153


ELEVATION IN FEET MSL
WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO.
LAKE CHICOT NO. 15
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

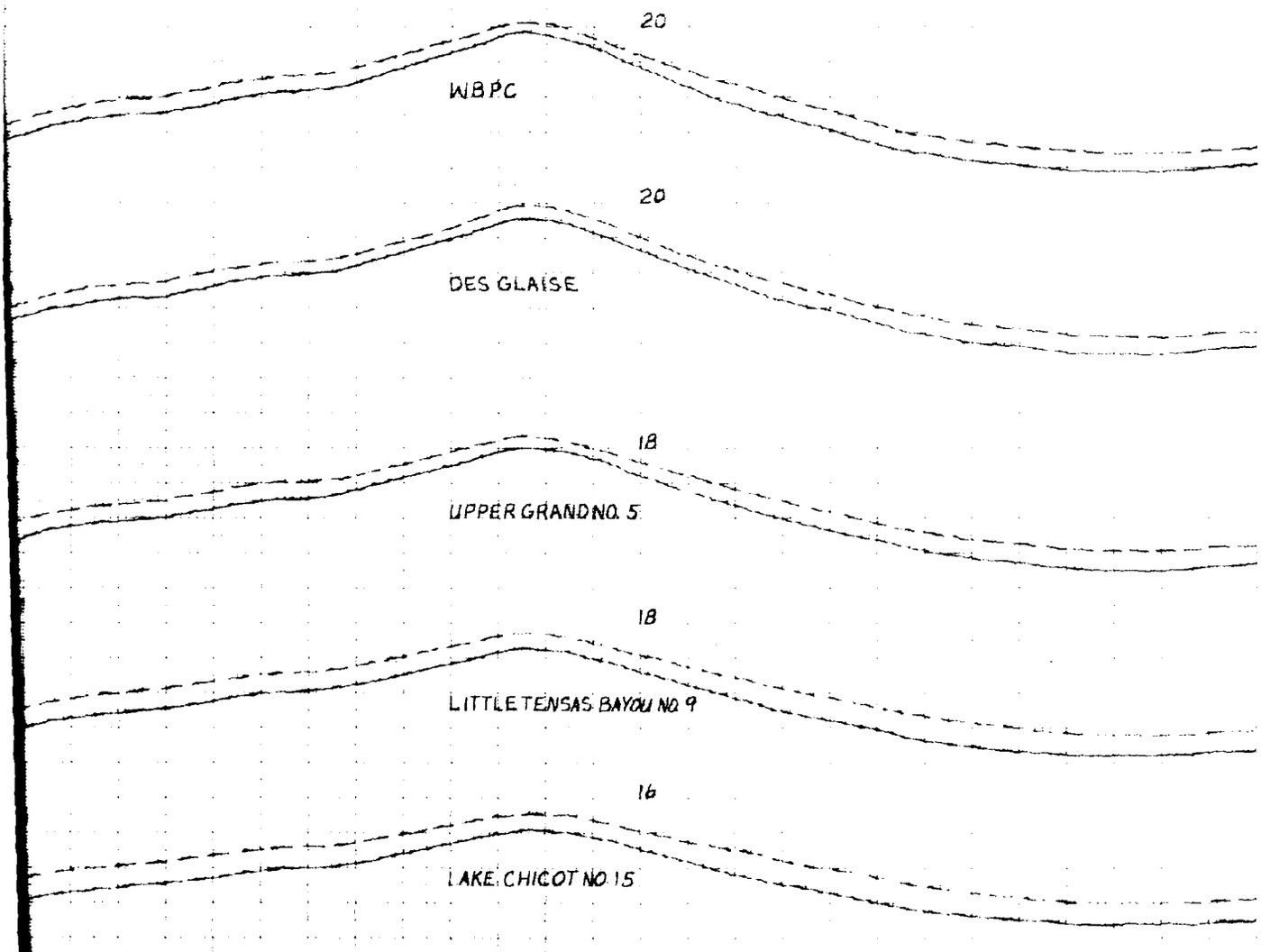
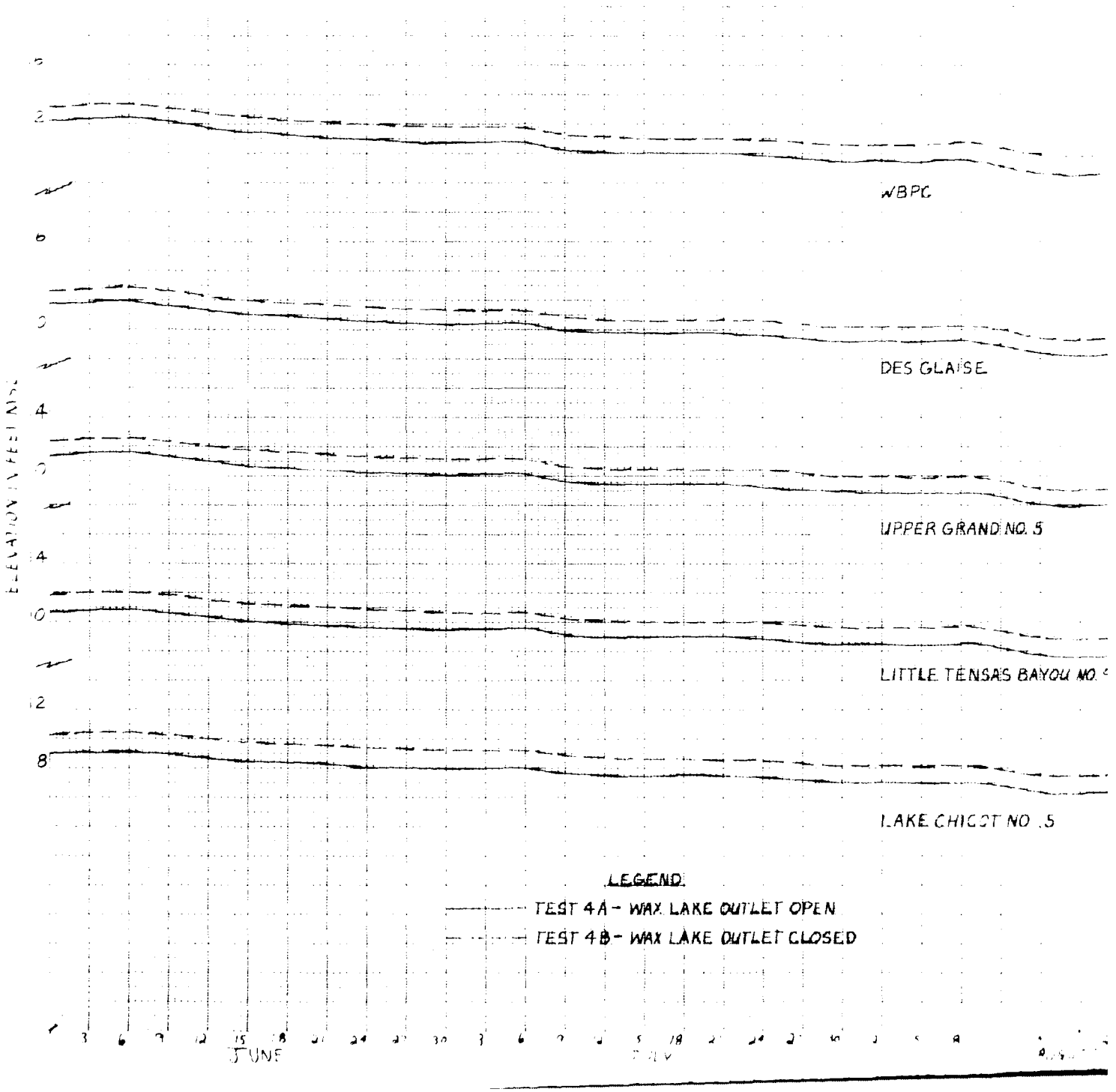
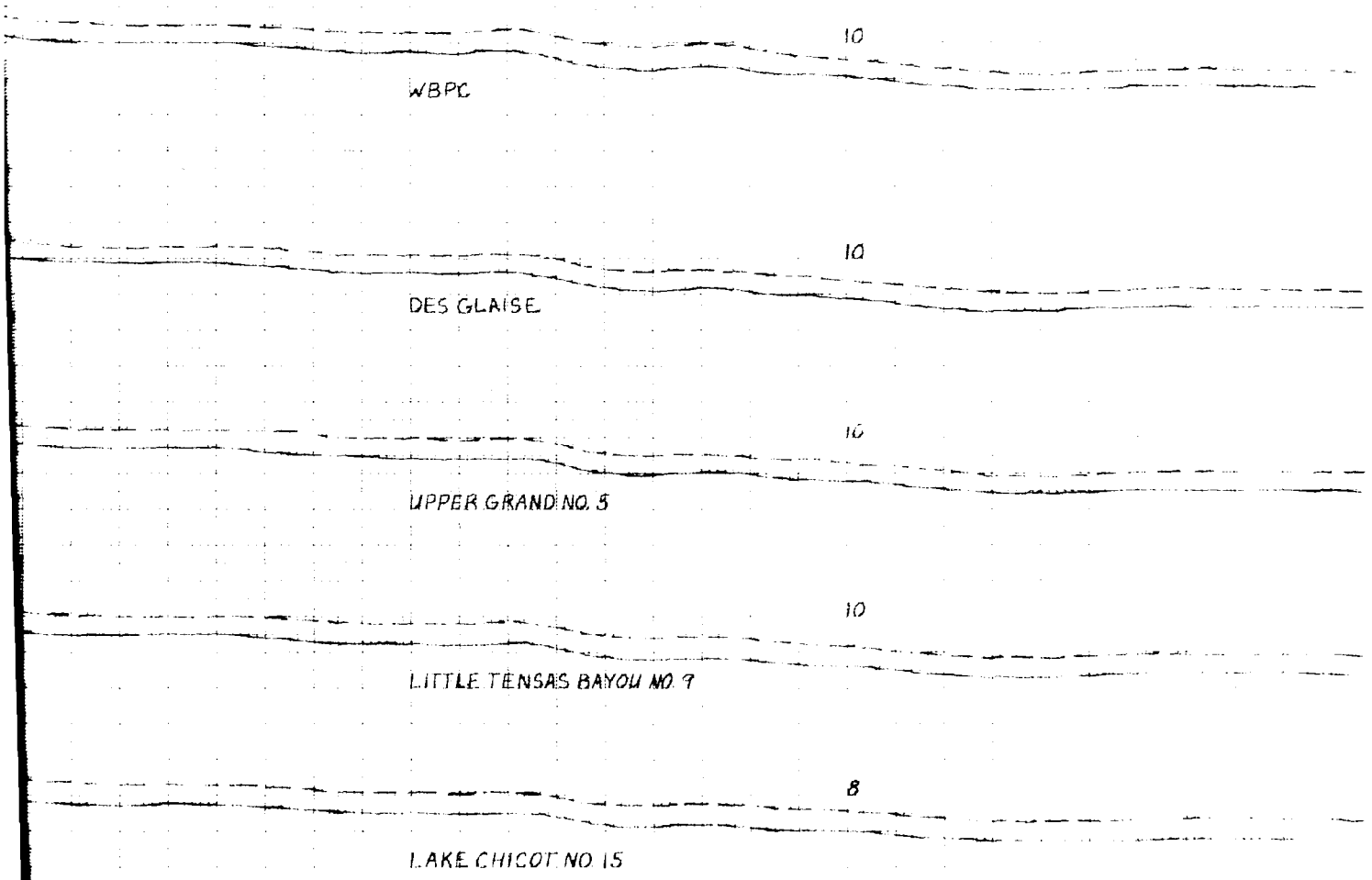

20
WBPC
20
DES GLAISE
18
UPPER GRAND NO. 5
18
LITTLE TENSAS BAYOU NO. 9
16
LAKE CHICOT NO. 15
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
RCH
APRIL
MAY

PLATE 34

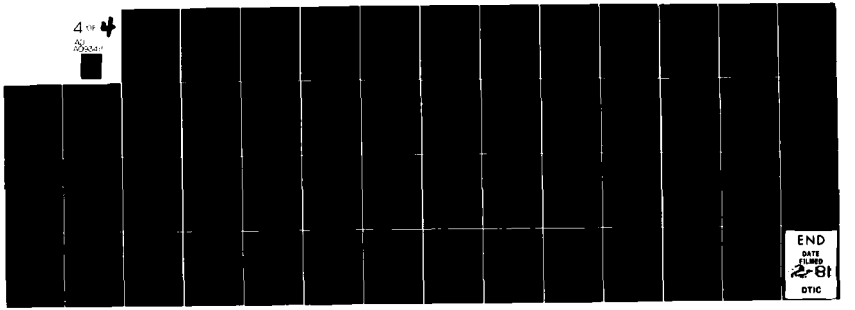

WBPC
DES GLAISE
UPPER GRAND NO. 5
LITTLE TENSAS BAYOU NO.
LAKE CHICOT NO .5
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
JUNE

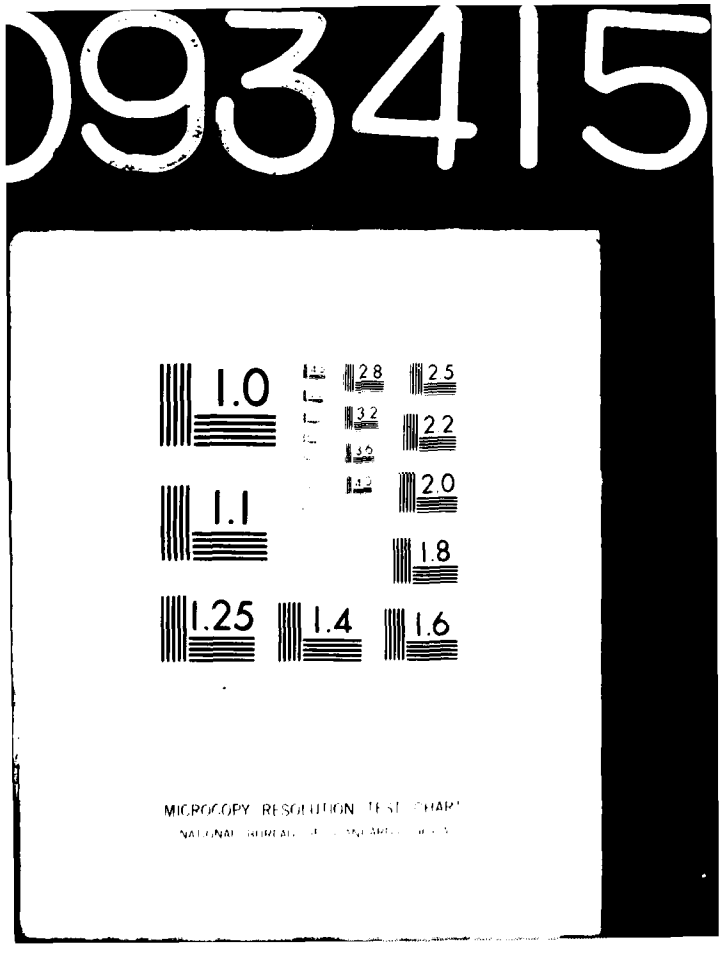


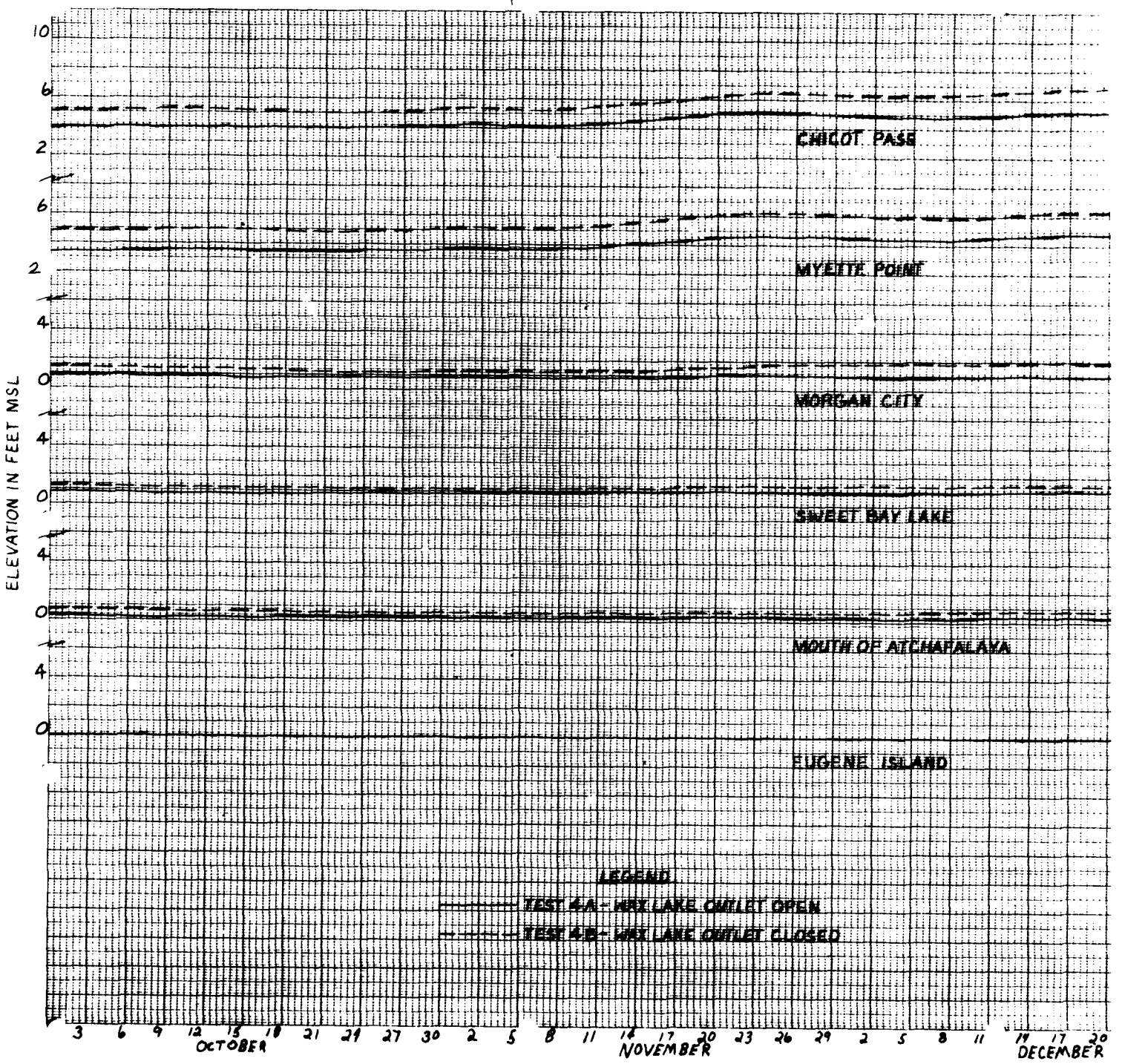
LEGEND:
4A - WAX LAKE OUTLET OPEN
4B - WAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS JUNE-SEPT
ATCHAFALAYA BASIN MAIN CHANNEL
WBPC - LAKE CHICOT NO. 15

AD-A093 415 ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS F/G 13/2
EFFECTS OF CLOSING WAX LAKE OUTLET AND CONSTRUCTING MANAGEMENT --ETC(U)
NOV 80 J E FOSTER, J V ALLEN IAO-LMNED-79-96
UNCLASSIFIED WES-MISS-BASIN MODEL-31-8 NL




093415
1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART


ELEVATION IN FEET MSL
10
6
2
6
2
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

2

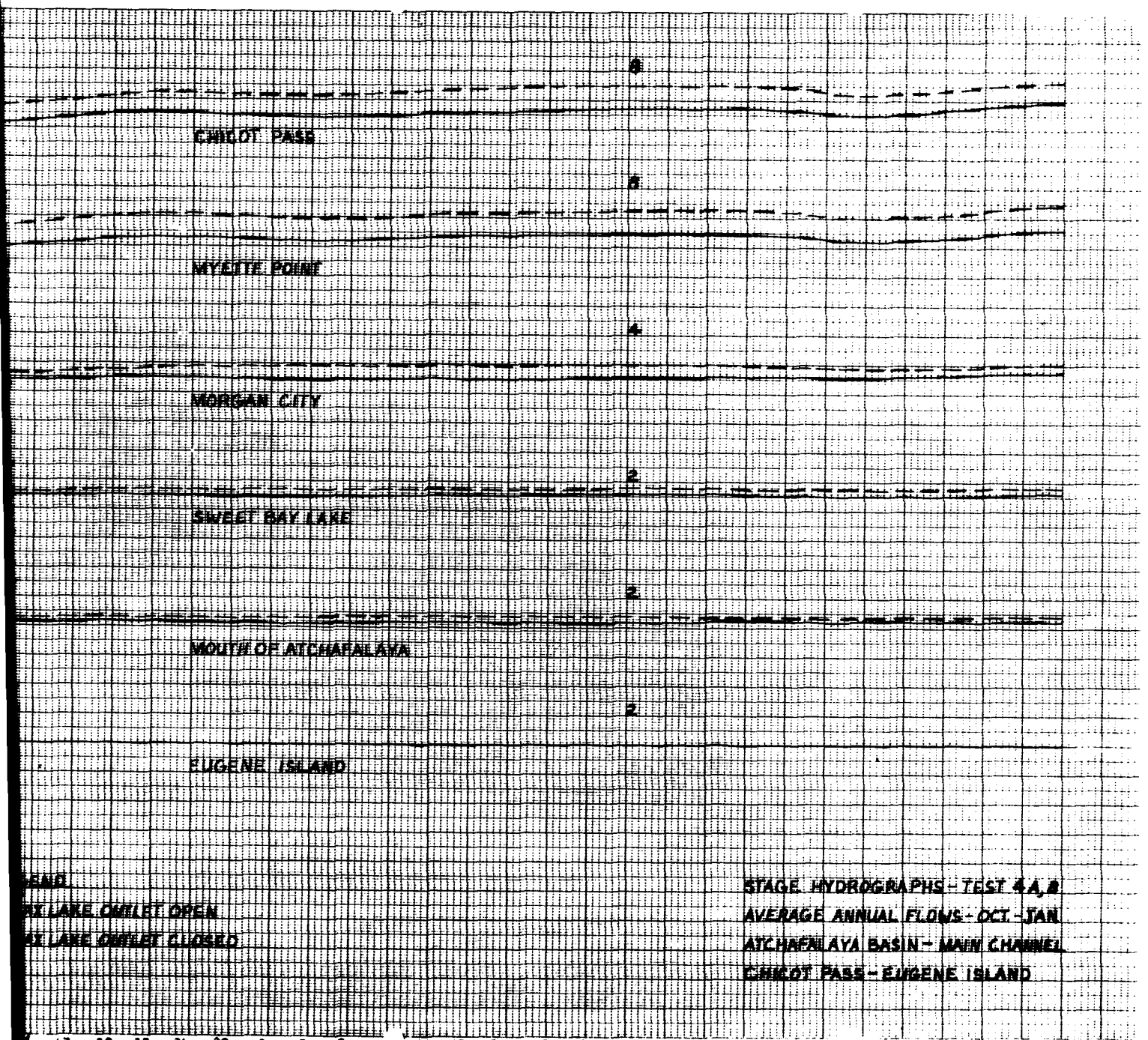
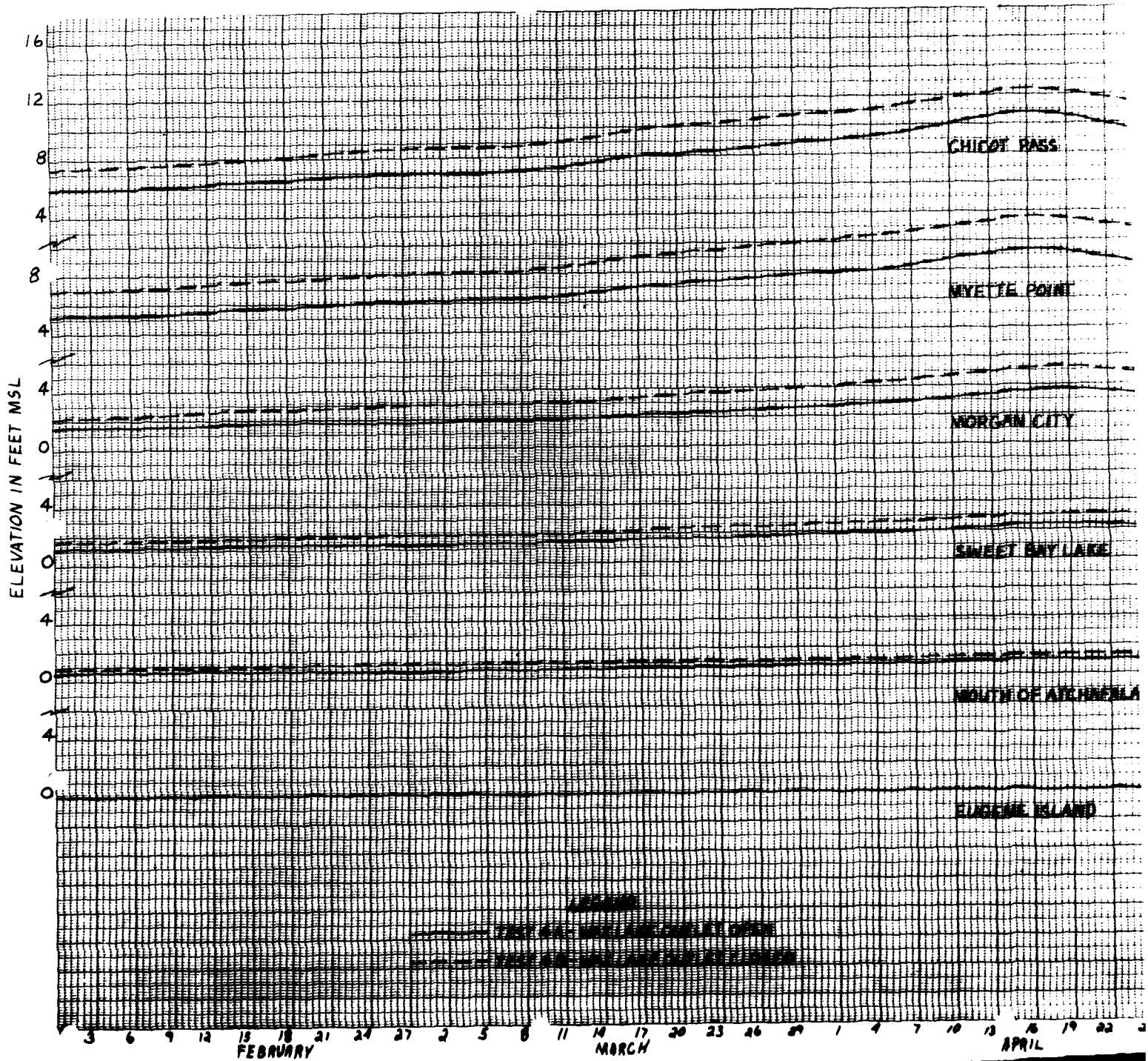

6
CHICOT PASS
5
MYETTE POINT
4
MORGAN CITY
2
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
2
EUGENE ISLAND
END
AX LAKE OUTLET OPEN
AX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - OCT - JAN
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 31
OVEMBER
DECEMBER
JANUARY

PLATE 136


ELEVATION IN FEET MSL
16
12
8
4
8
4
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
EUGENE ISLAND
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL

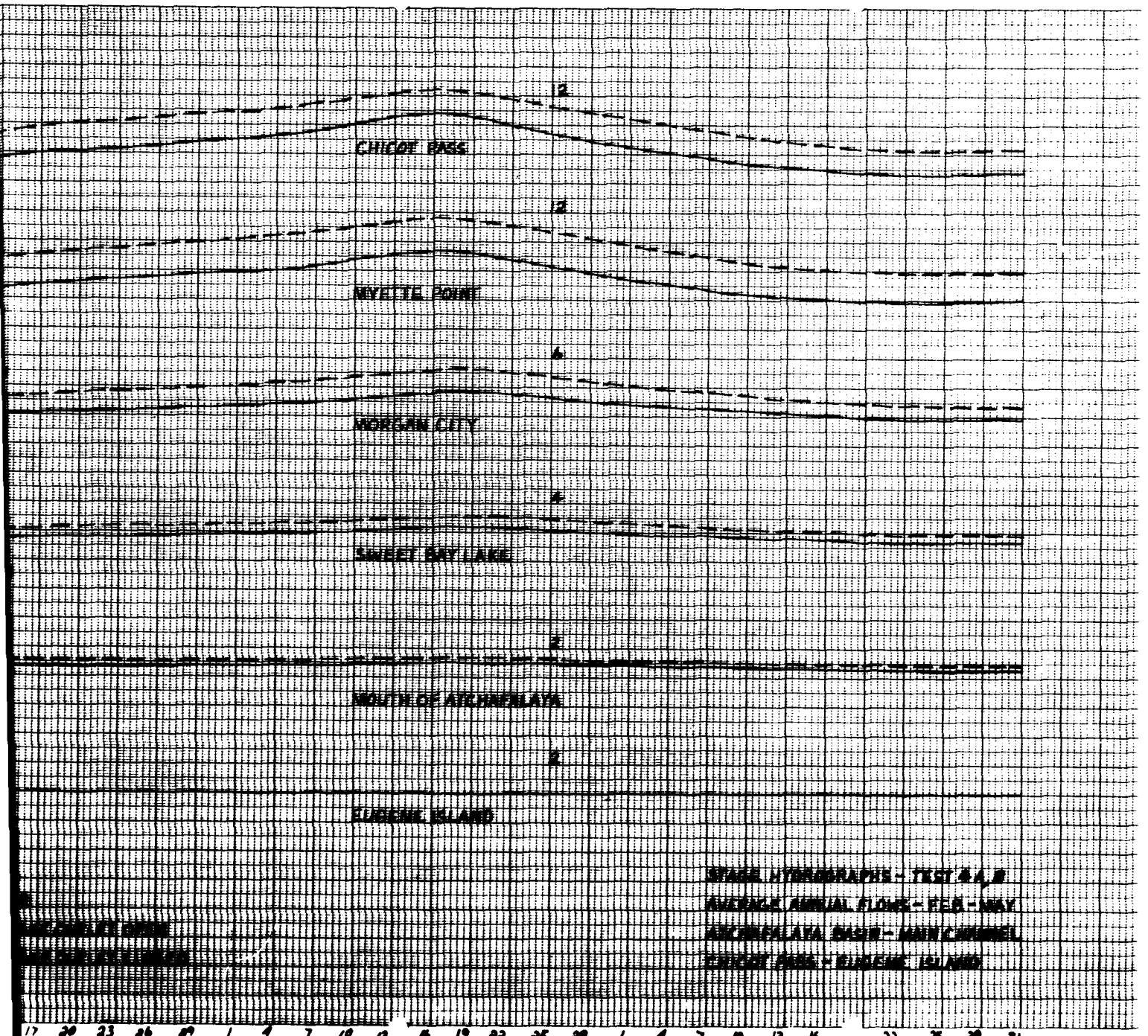
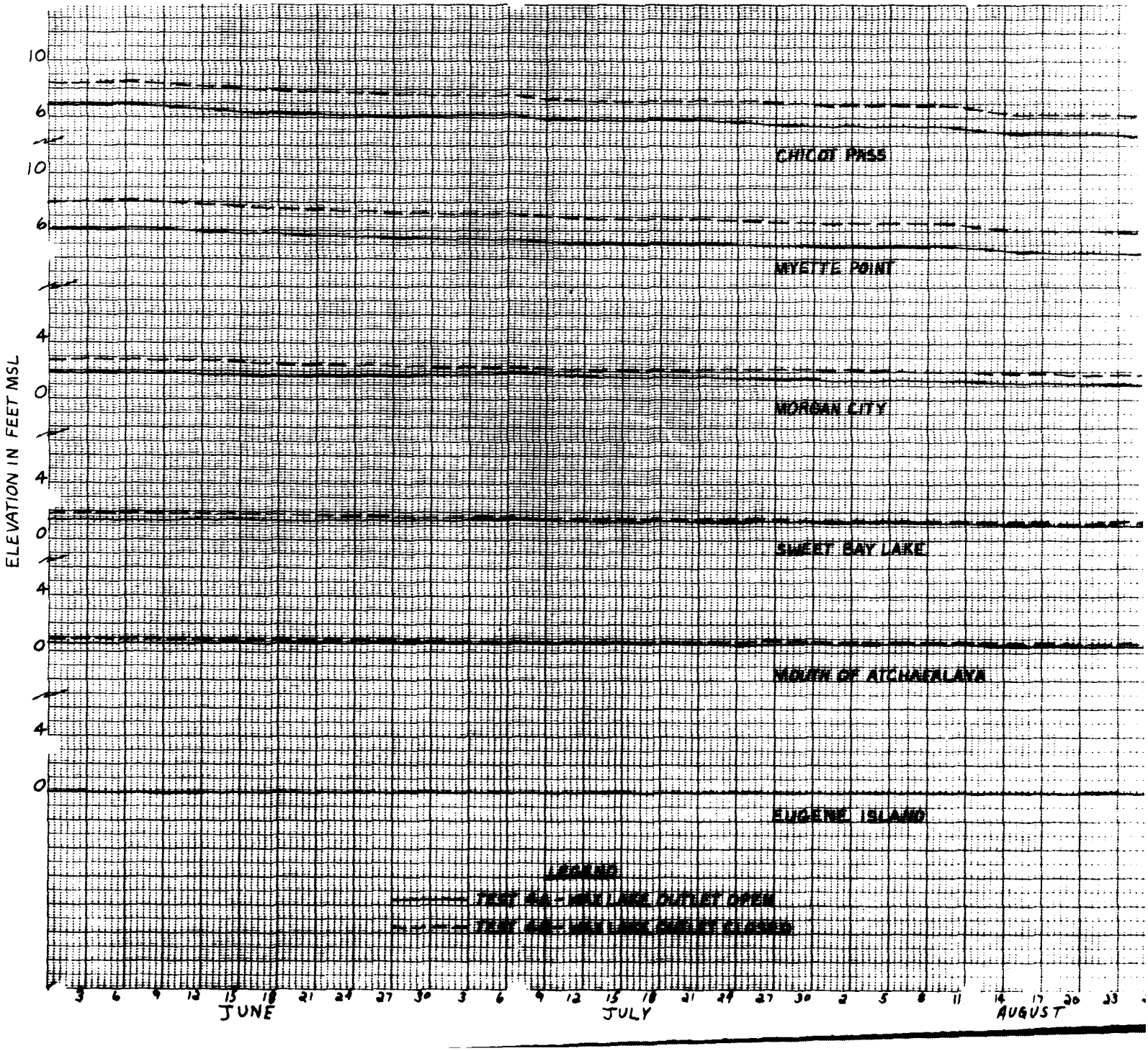

12
CHICOT PASS
12
VIVETTE POINT
4
MORGAN CITY
4
SWEET BAY LAKE
2
MOUTH OF ATCHAFALAYA
2
EUGENE ISLAND
STAGE HYDROGRAPHS - TEST A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
17 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE 137


ELEVATION IN FEET MSL
10
6
10
6
4
0
4
0
4
0
4
0
CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
LEGEND
TEST 44 - WAX LAKE OUTLET OPEN
TEST 44B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23
JUNE
JULY
AUGUST

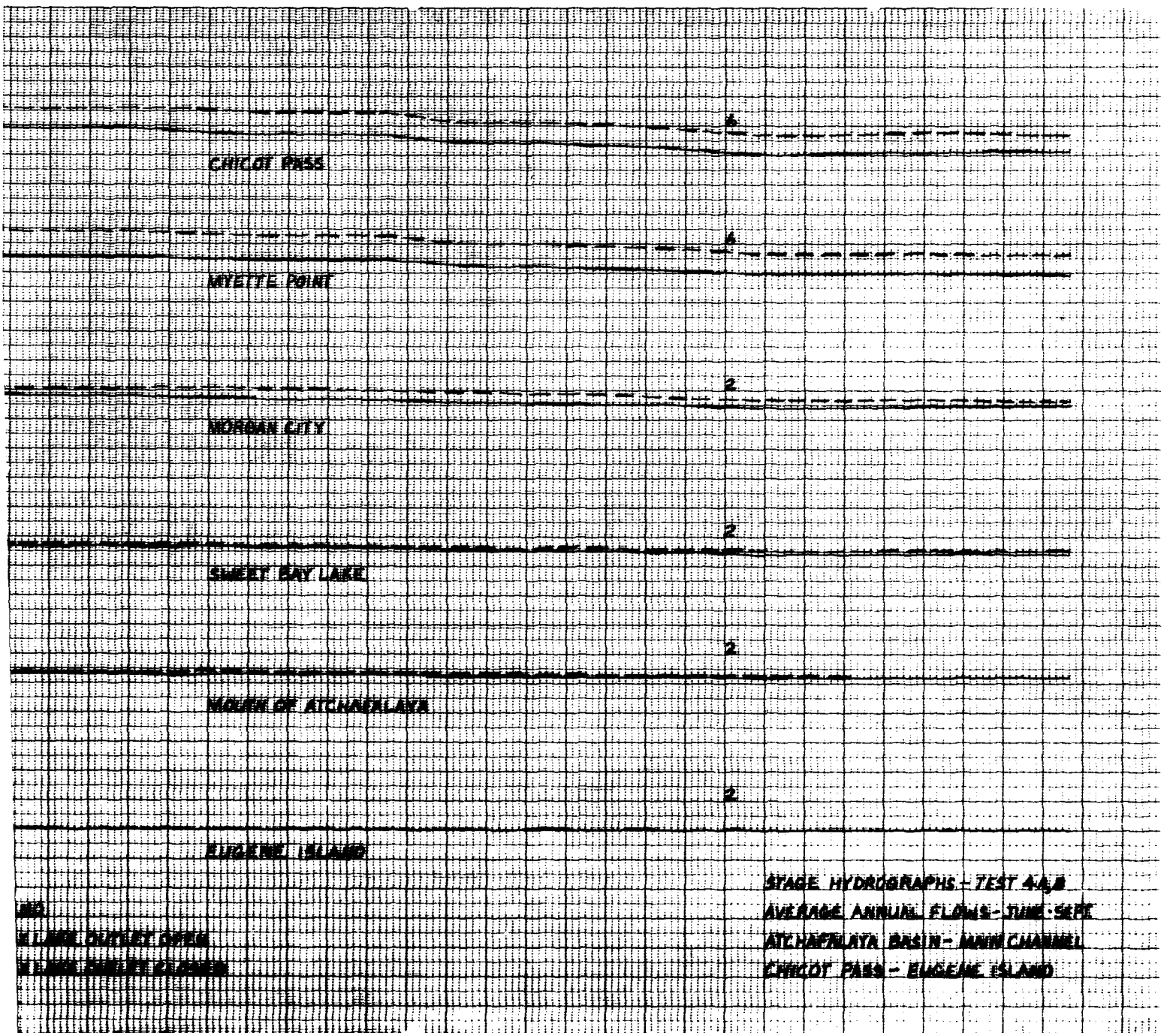
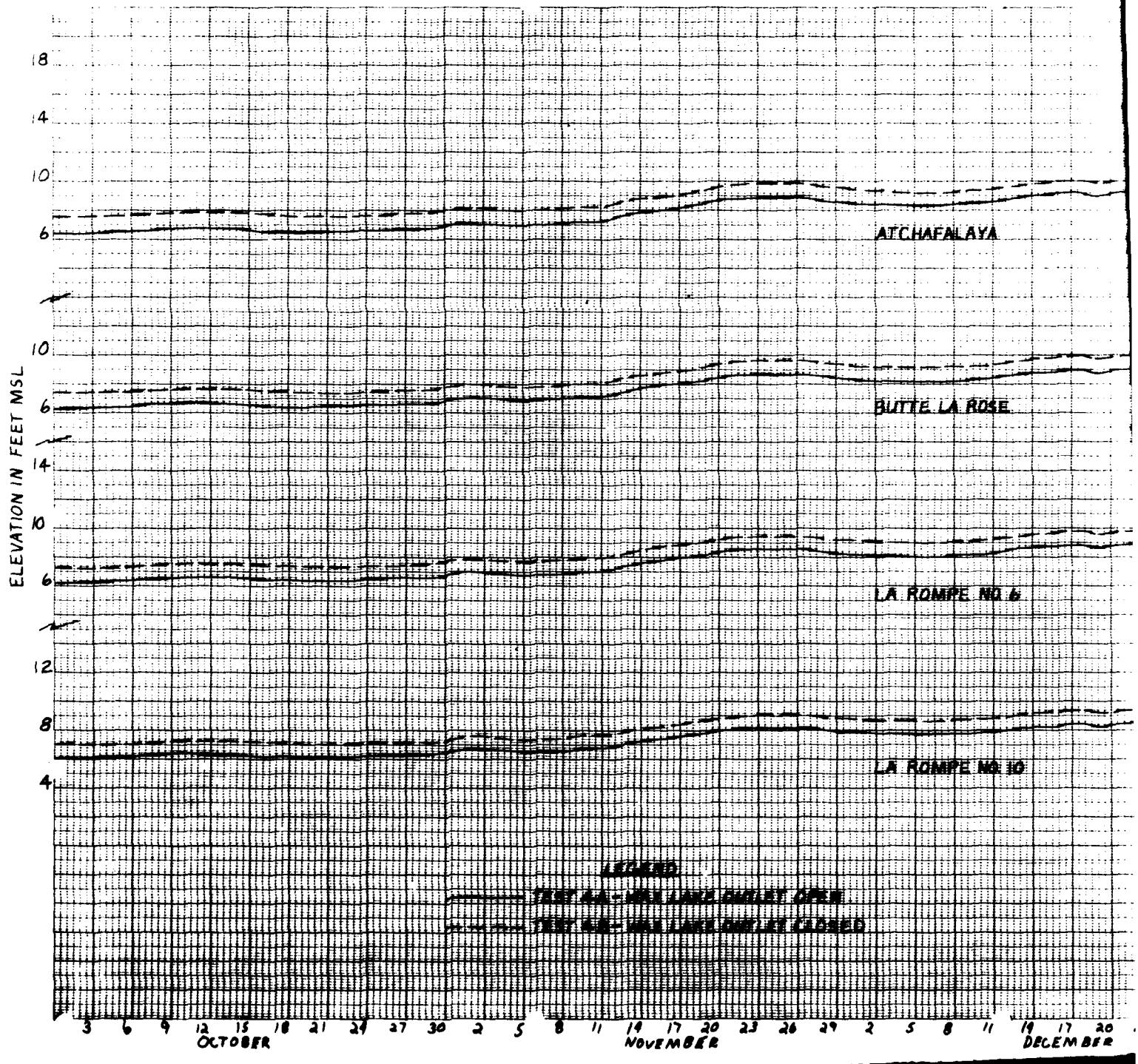

CHICOT PASS
MYETTE POINT
MORGAN CITY
SWEET BAY LAKE
MOUTH OF ATCHAFALAYA
EUGENE ISLAND
STAGE HYDROGRAPHS - TEST 4-A,B
AVERAGE ANNUAL FLOWS - JUNE-SEPT
ATCHAFALAYA BASIN - MAIN CHANNEL
CHICOT PASS - EUGENE ISLAND
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 138


ELEVATION IN FEET MSL
18
14
10
6
10
6
14
10
6
12
8
4
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO 6
LA ROMPE NO 10
LEGEND
TEST 6A - MRK LAKE OUTLET OPEN
TEST 6B - MRK LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

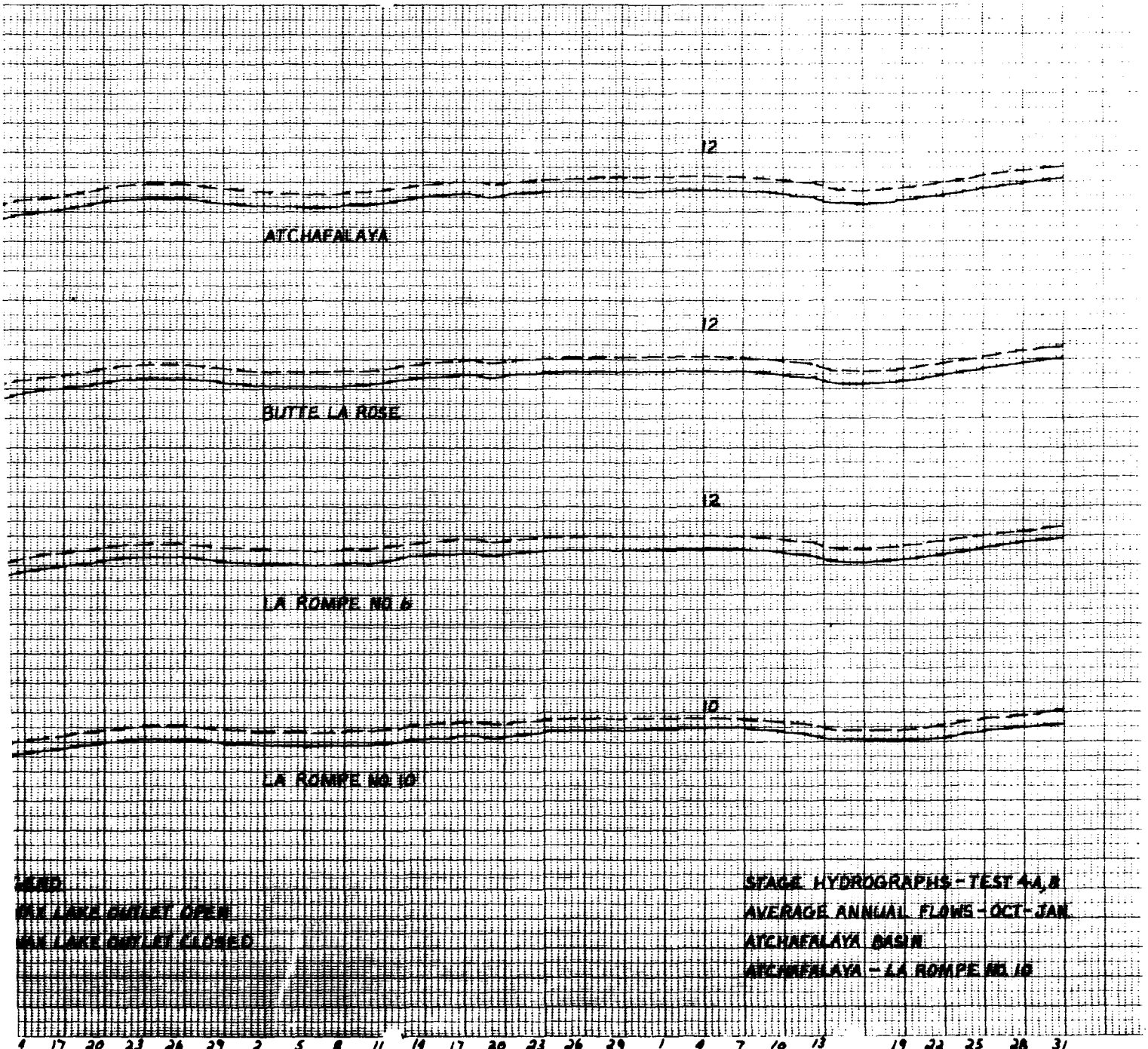
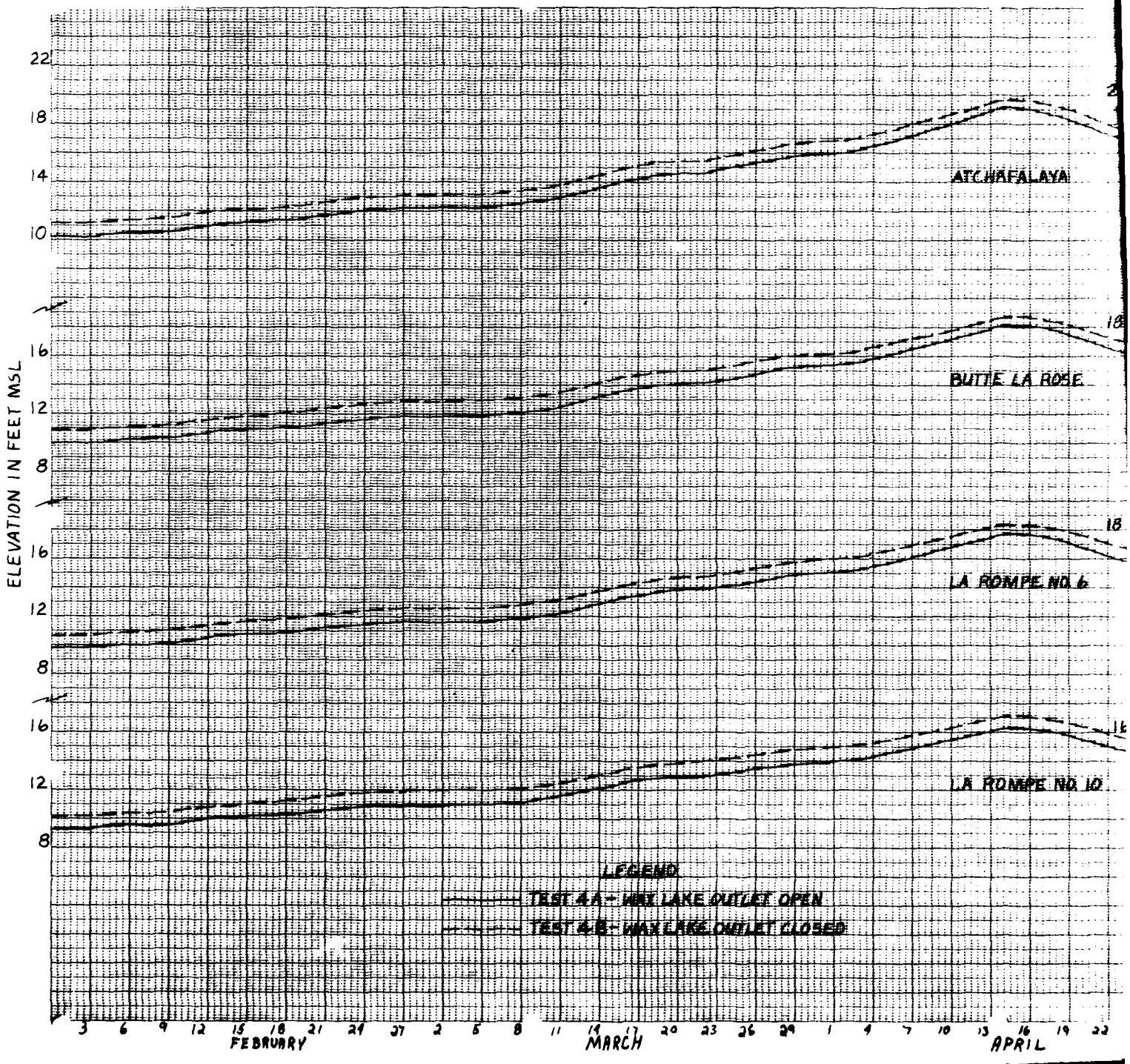

12
ATCHAFALAYA
12
BUTTE LA ROSE
12
LA ROMPE NO 6
10
LA ROMPE NO 10
4 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
OVEMBER
DECEMBER
JANUARY
MED
WK LAKE OUTLET OPEN
WK LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4-A,B
AVERAGE ANNUAL FLOWS - OCT - JAN.
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10

PLATE 139


ELEVATION IN FEET MSL
22
18
14
10
16
12
8
ATCHAFALAYA
BUTTE LA ROSE
LA ROMPE NO. 6
LA ROMPE NO. 10
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL

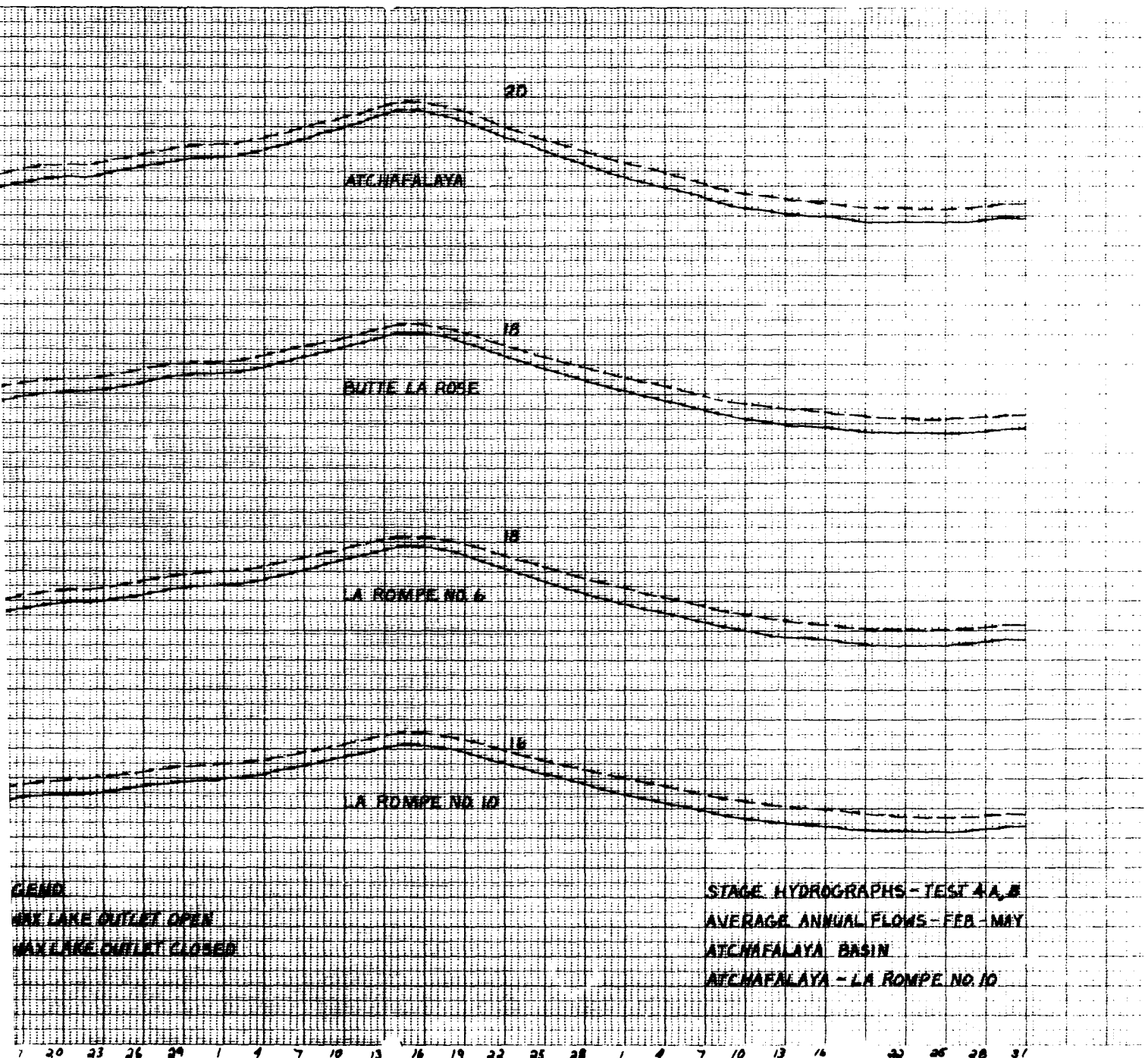
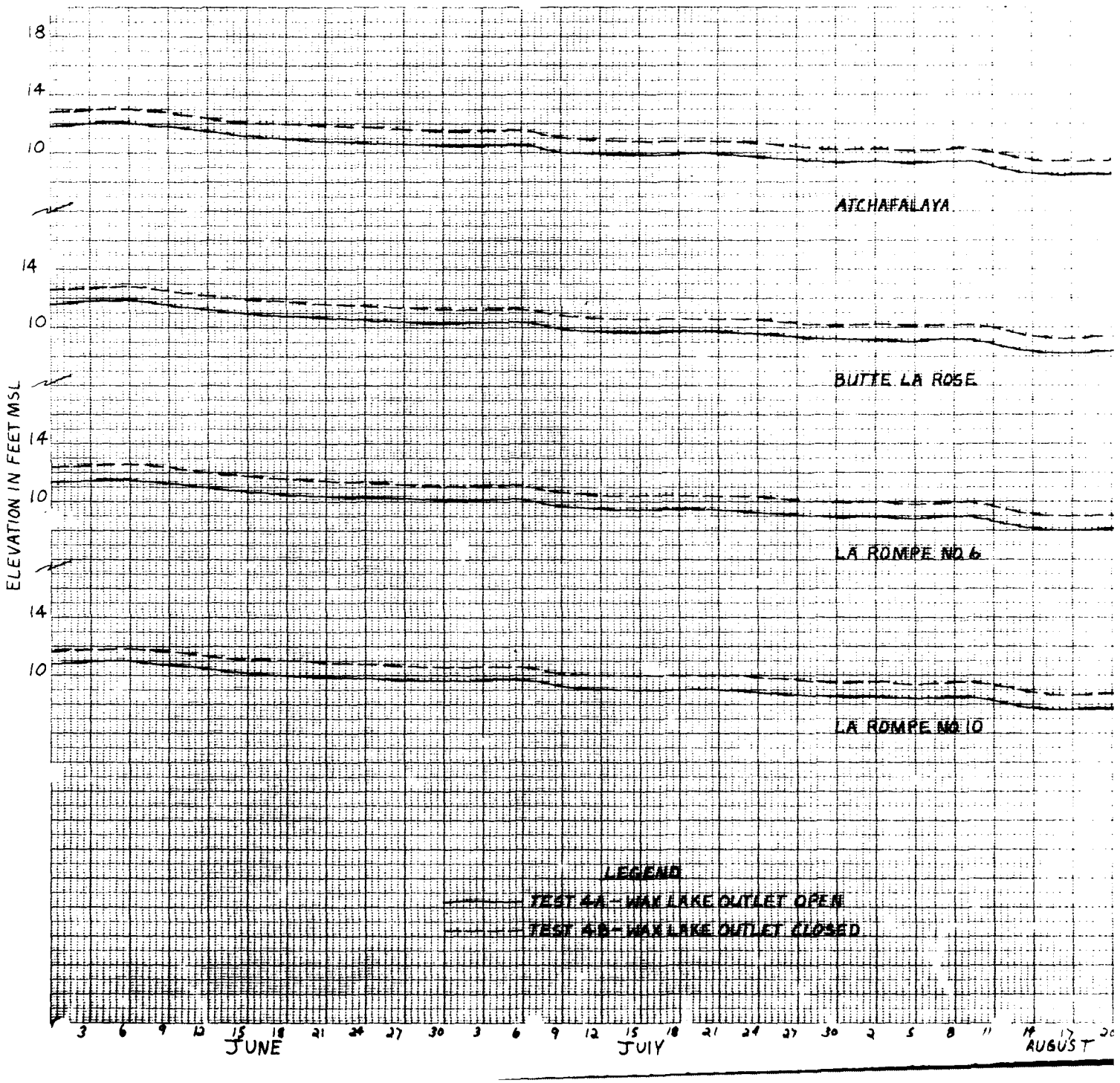

2D
ATCHAFALAYA
1B
BUTTE LA ROSE
1B
LA ROMPE NO. 6
1B
LA ROMPE NO. 10
LEGEND
WAX LAKE OUTLET OPEN
WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4 A, B
AVERAGE ANNUAL FLOWS - FEB - MAY
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO. 10
H
20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 22 25 28 31
APRIL
MAY

PLATE 140


ELEVATION IN FEET MSL
18
14
10
ATCHAFALAYA
14
10
BUTTE LA ROSE
14
10
LA ROMPE NO 6
14
10
LA ROMPE NO 10
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17
JUNE
JULY
AUGUST

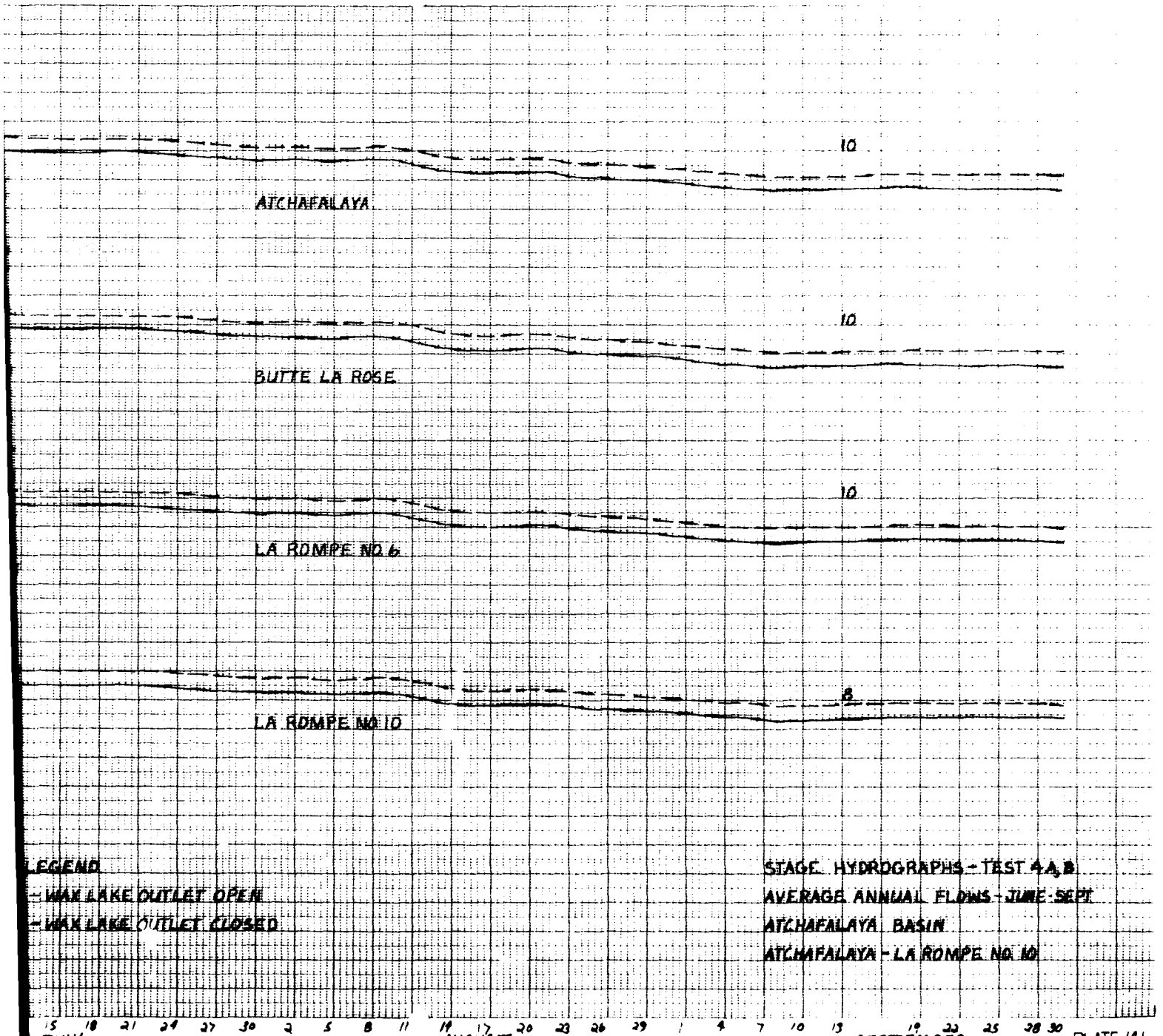
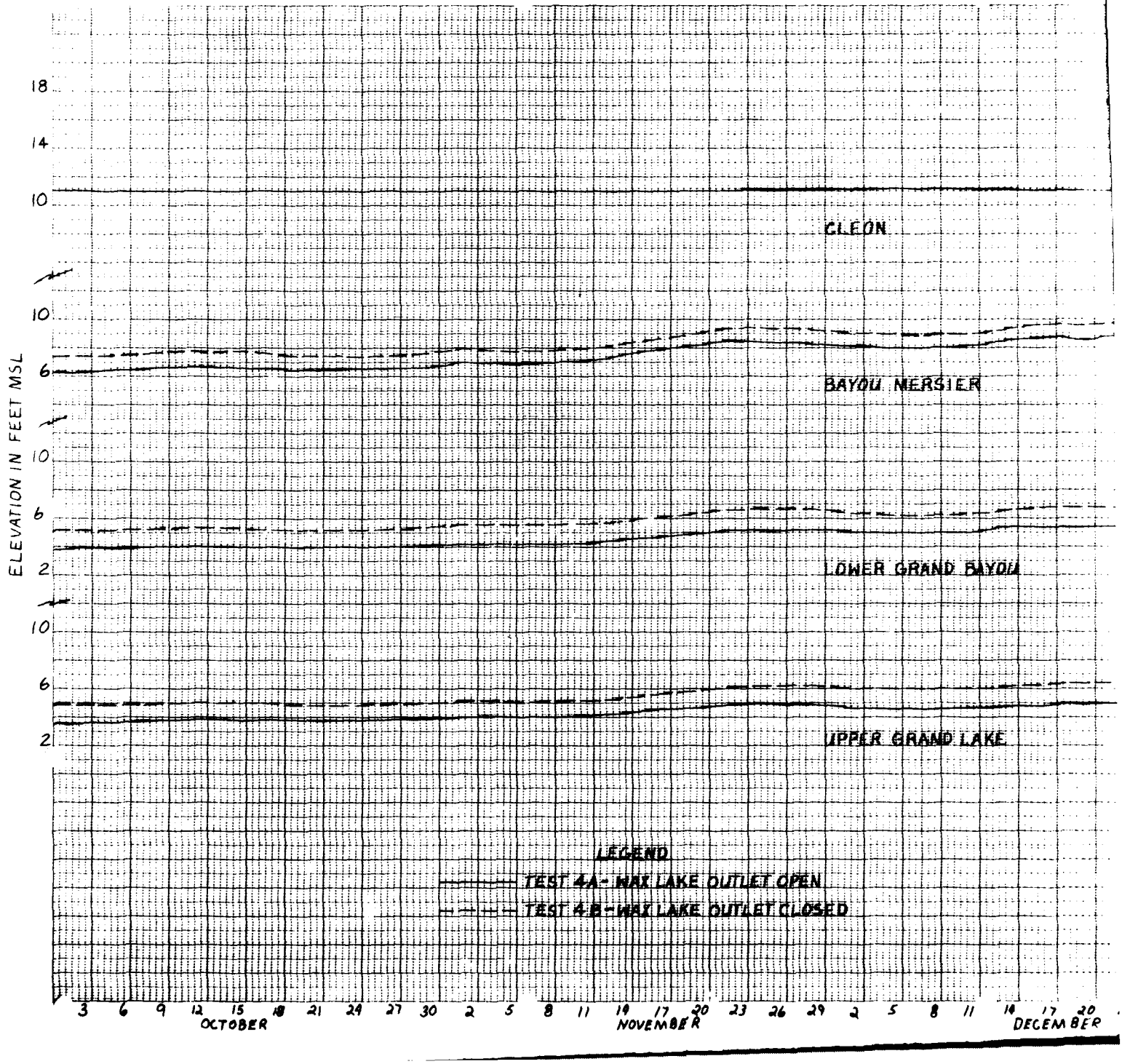

10
ATCHAFALAYA
10
BUTTE LA ROSE
10
LA ROMPE NO 6
8
LA ROMPE NO 10
LEGEND
- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4 A, B
AVERAGE ANNUAL FLOWS - JUNE-SEPT
ATCHAFALAYA BASIN
ATCHAFALAYA - LA ROMPE NO 10
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 141


ELEVATION IN FEET MSL
18
14
10
10
6
10
6
2
10
6
2
CLEON
BAYOU MERSIER
LOWER GRAND BAYOU
UPPER GRAND LAKE
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4 B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER

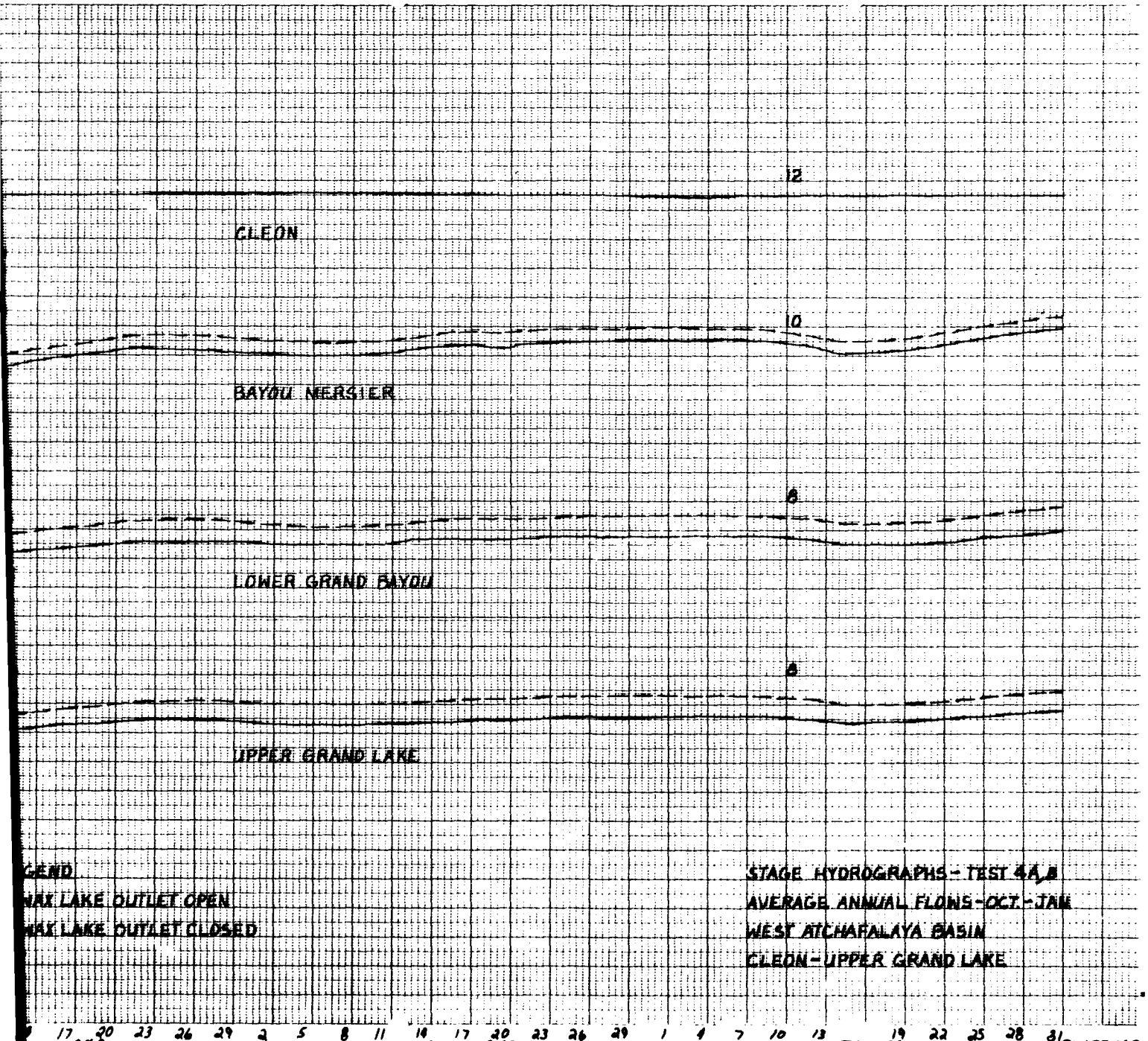
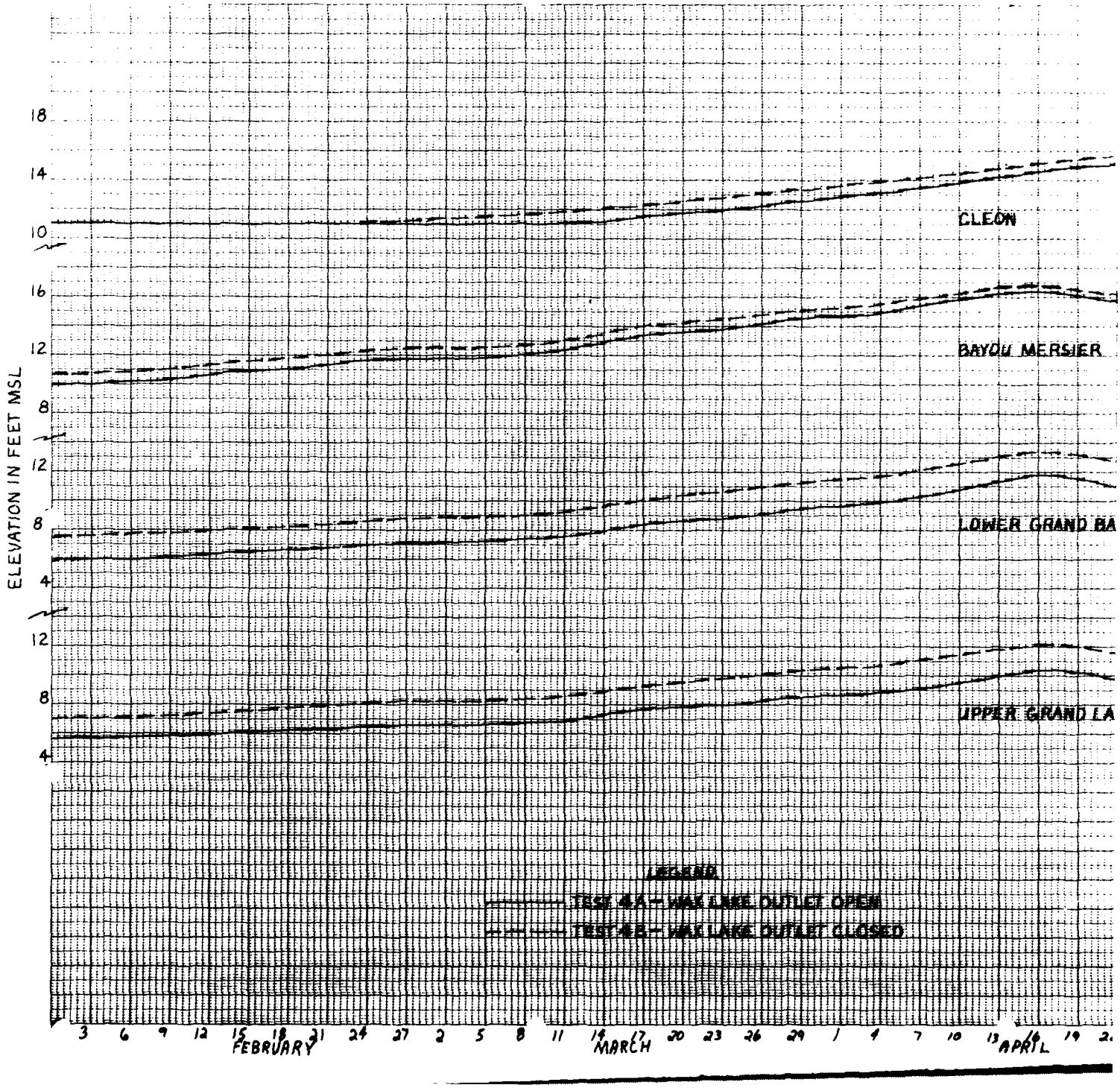
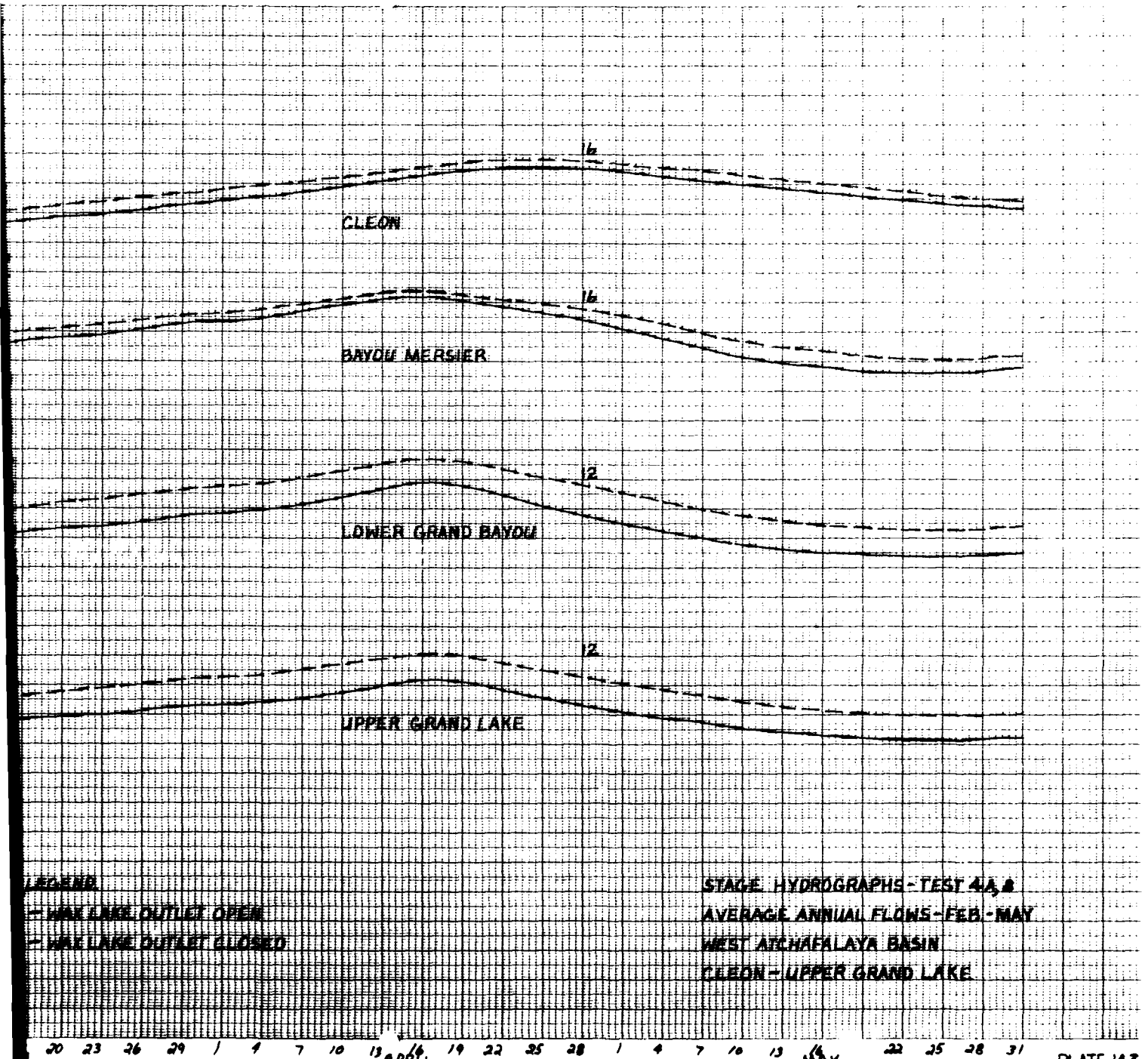

12
CLEON
10
BAYOU MERSIER
8
LOWER GRAND BAYOU
6
UPPER GRAND LAKE
GEND
NAX LAKE OUTLET OPEN
NAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE
17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 142

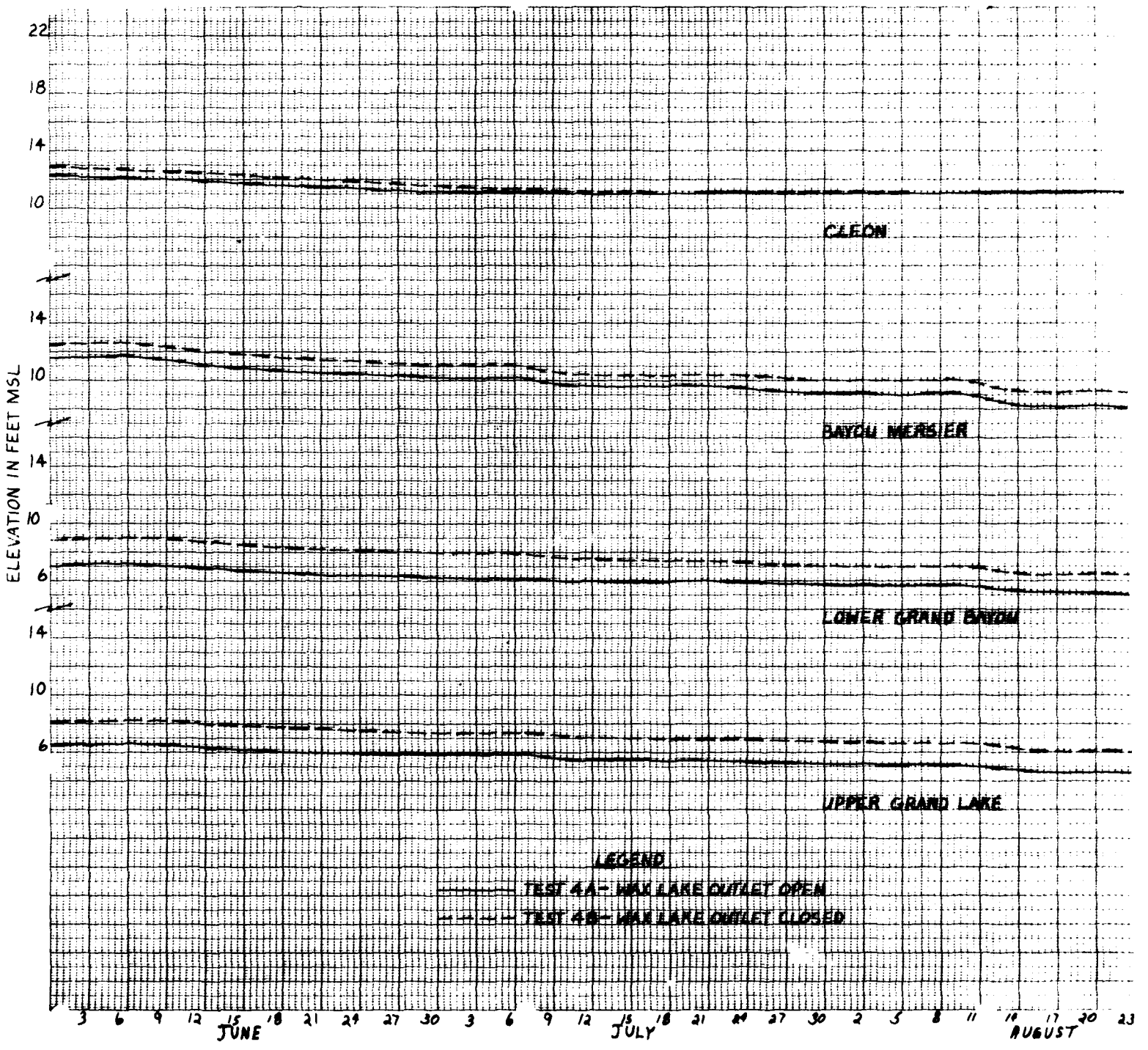

ELEVATION IN FEET MSL
18
14
10
16
12
8
12
8
4
12
8
4
CLEON
BAYOU MERSIER
LOWER GRAND BA
UPPER GRAND LA
LEGEND
TEST 4A — WAX LAKE OUTLET OPEN
TEST 4B — WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27
FEBRUARY
2 5 8 11 14 17 20 23 26 29
MARCH
1 4 7 10 13 16 19 22
APRIL

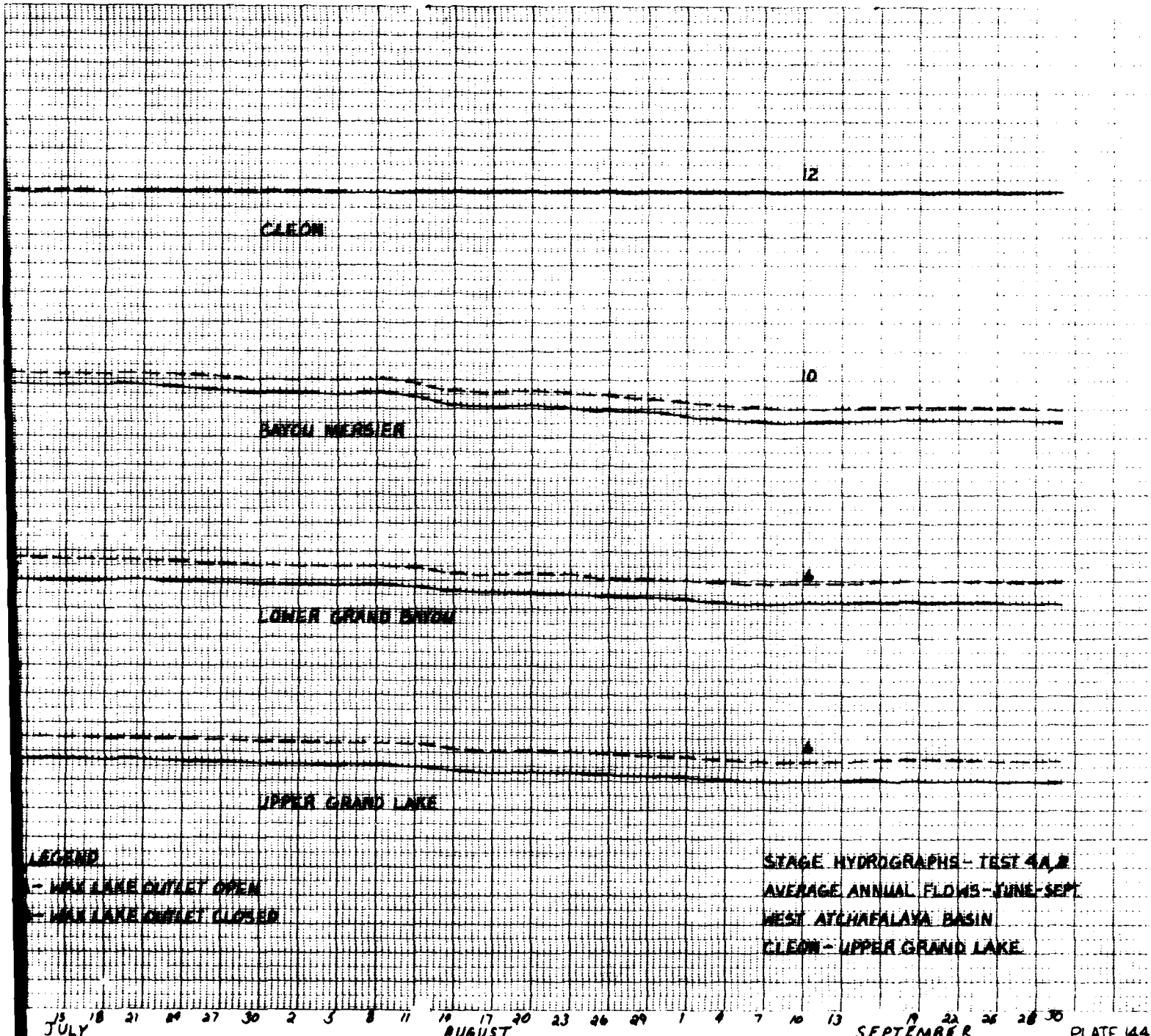
2



STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - FEB. - MAY
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

PLATE 143

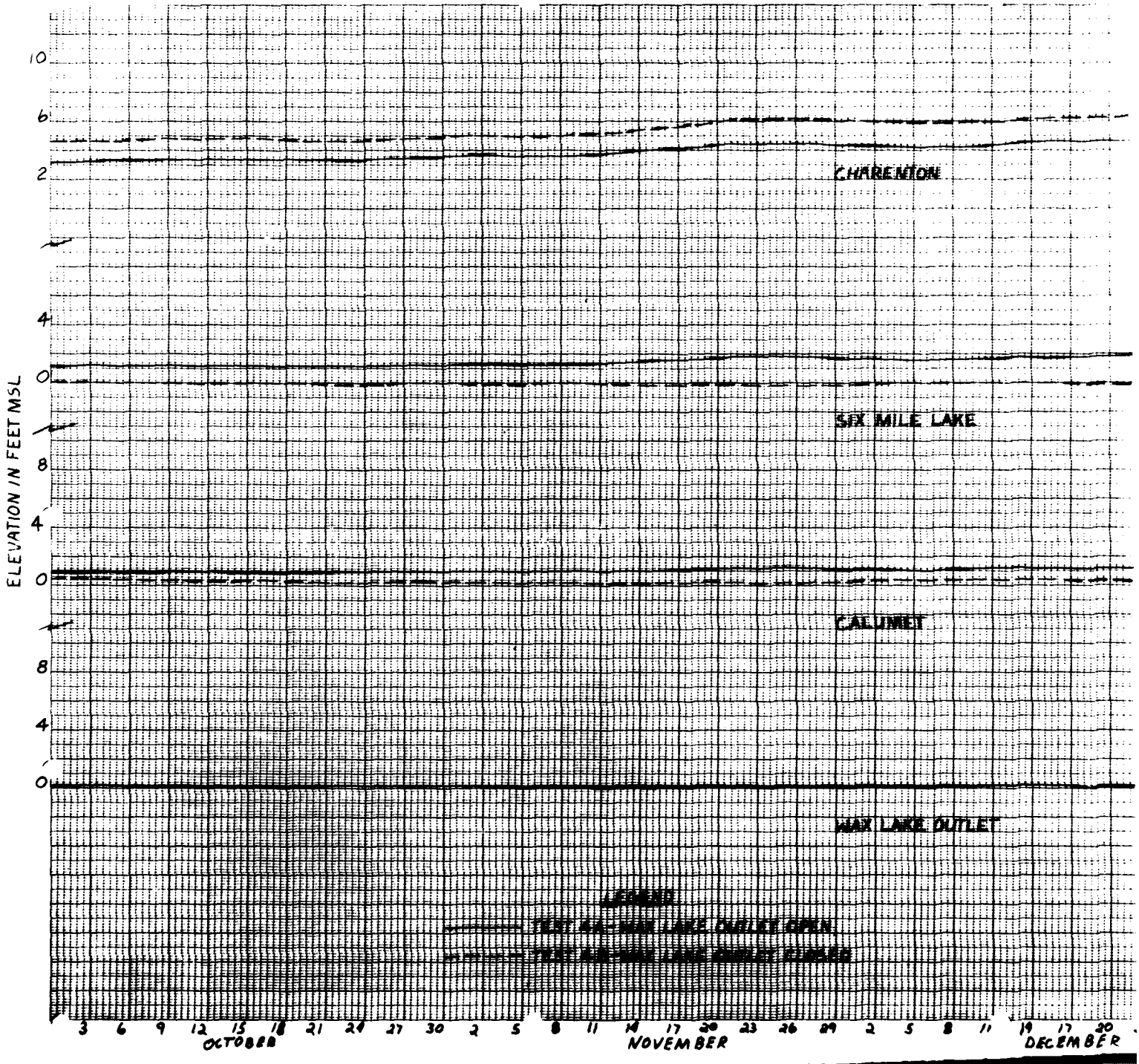

ELEVATION IN FEET MSL
22
18
14
10
CLEON
14
10
BAYOU MERSIER
14
10
6
LOWER GRAND BAYOU
14
10
6
UPPER GRAND LAKE
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20 23
AUGUST



LEGEND
- MAX LAKE OUTLET OPEN
- MAX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS - JUNE-SEPT.
WEST ATCHAFALAYA BASIN
CLEON - UPPER GRAND LAKE

PLATE 144


ELEVATION IN FEET MSL
10
6
2
4
0
8
4
0
8
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST AA-WAX LAKE OUTLET OPEN
TEST A-B-WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

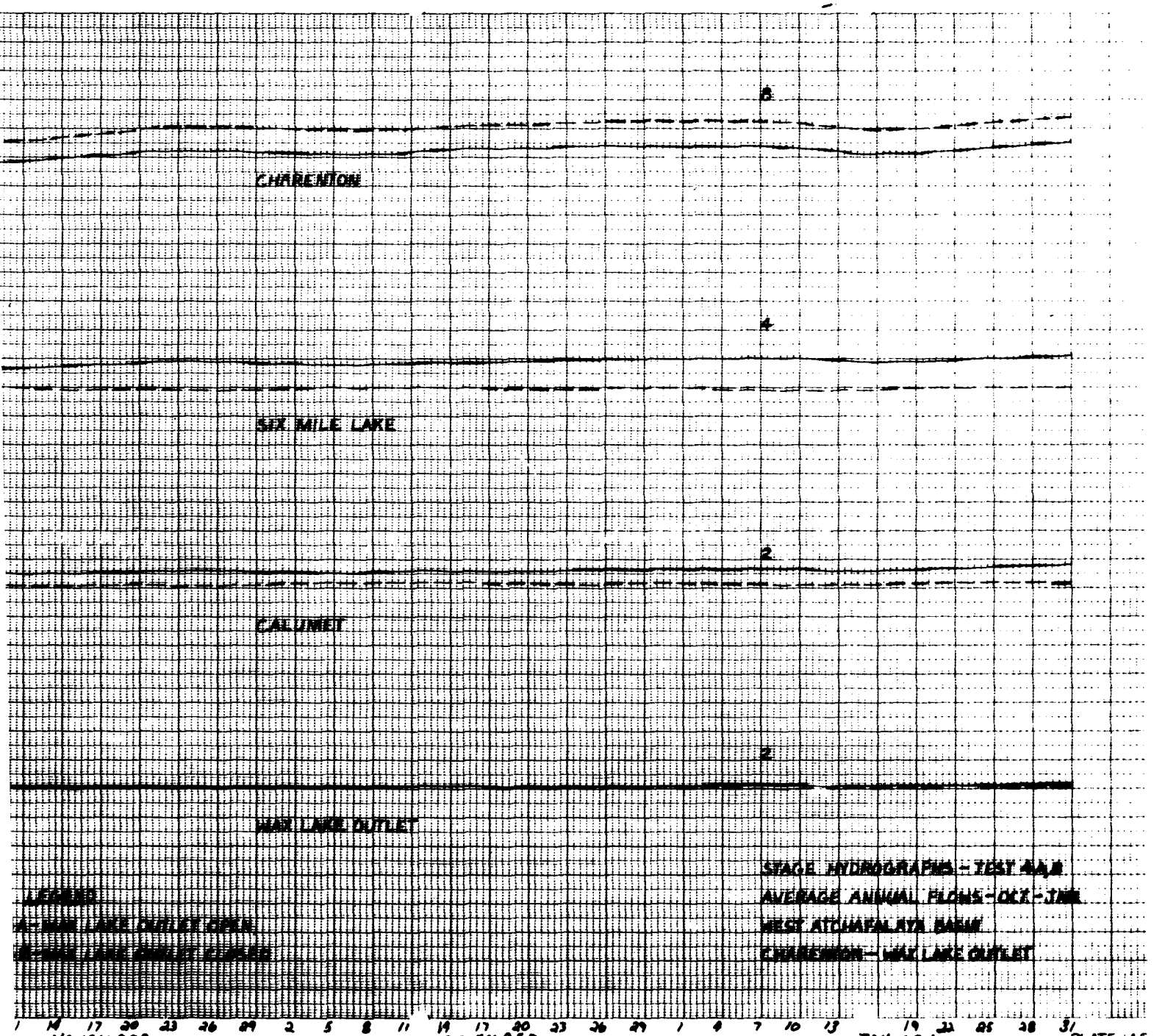
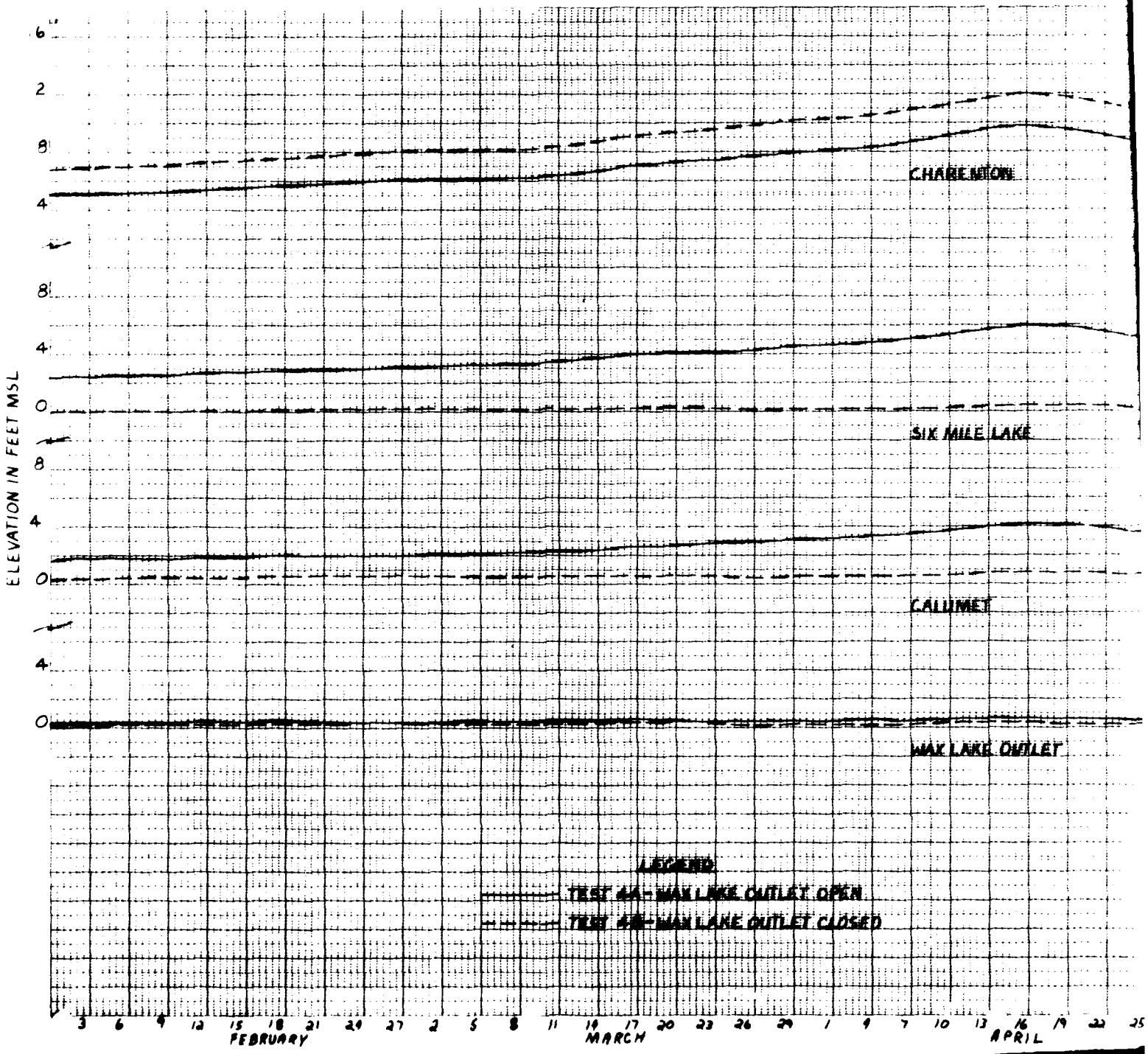
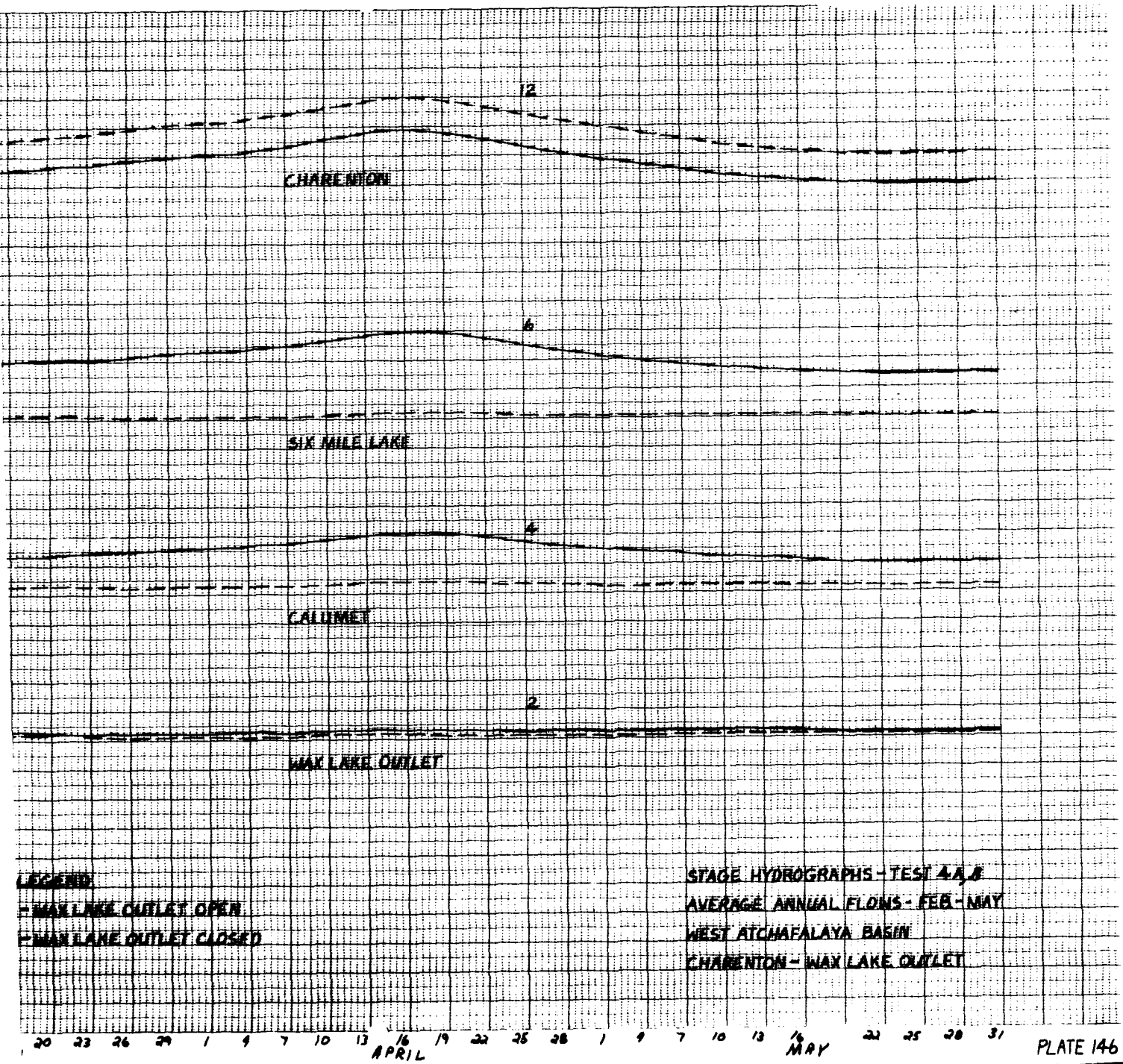

6
CHARENTON
4
SIX MILE LAKE
2
CALUMET
2
MAIN LAKE OUTLET
LEGEND
A- MAIN LAKE OUTLET OPEN
B- MAIN LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS - OCT - JUNE
WEST ATCHAFALAYA BASIN
CHARENTON - MAIN LAKE OUTLET
1 14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 145


ELEVATION IN FEET MSL
6
2
8
4
8
4
0
8
4
0
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22 25
FEBRUARY
MARCH
APRIL



LEGEND

- WAX LAKE OUTLET OPEN
- WAX LAKE OUTLET CLOSED

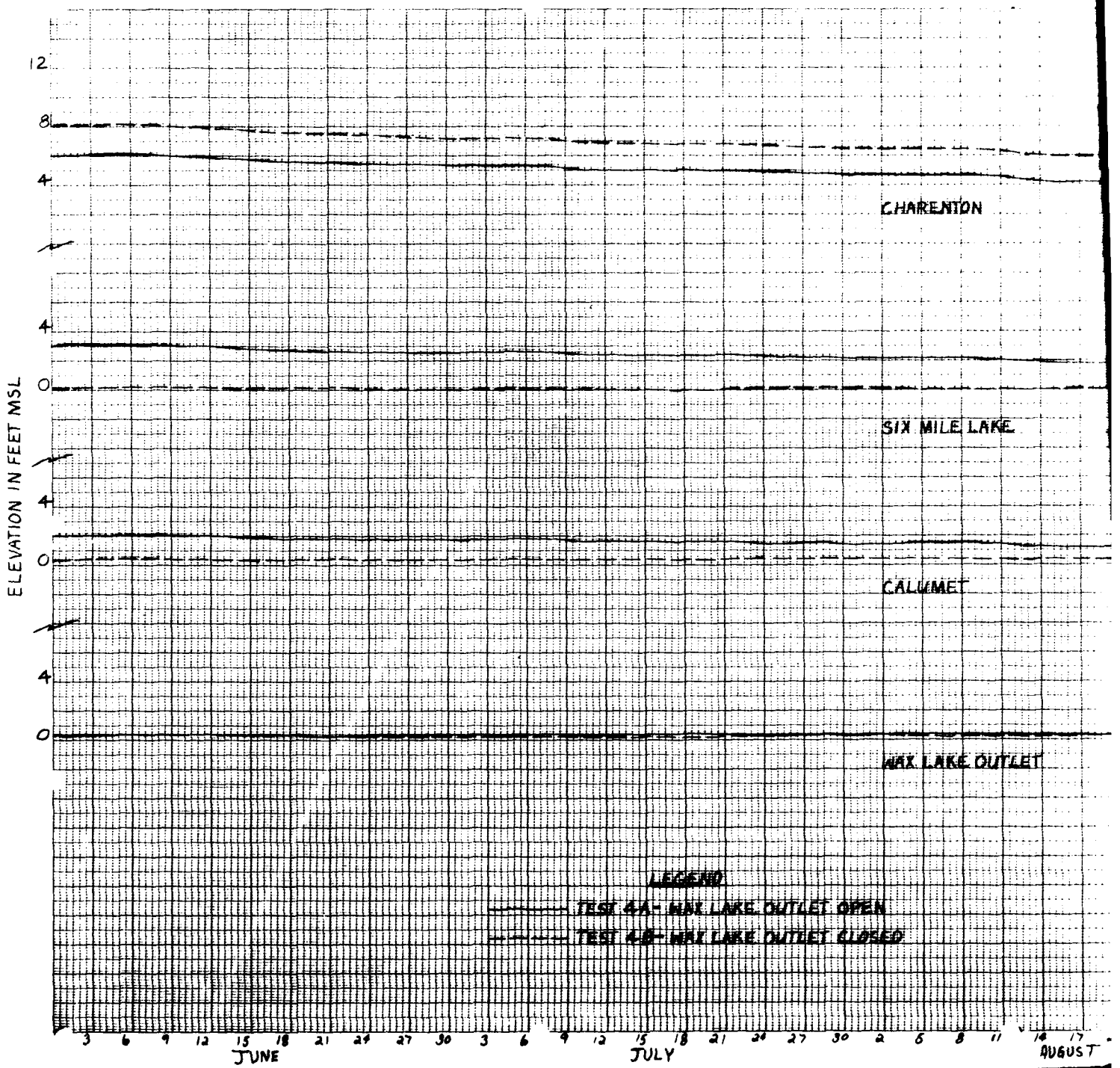
STAGE HYDROGRAPHS - TEST 4A,B

AVERAGE ANNUAL FLOWS - FEB - MAY

WEST ATCHAFALAYA BASIN

CHARENTON - WAX LAKE OUTLET

PLATE 146


ELEVATION IN FEET MSL
12
8
4
4
0
4
0
4
0
CHARENTON
SIX MILE LAKE
CALUMET
WAX LAKE OUTLET
LEGEND
TEST 4A- WAX LAKE OUTLET OPEN
TEST 4B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17
AUGUST

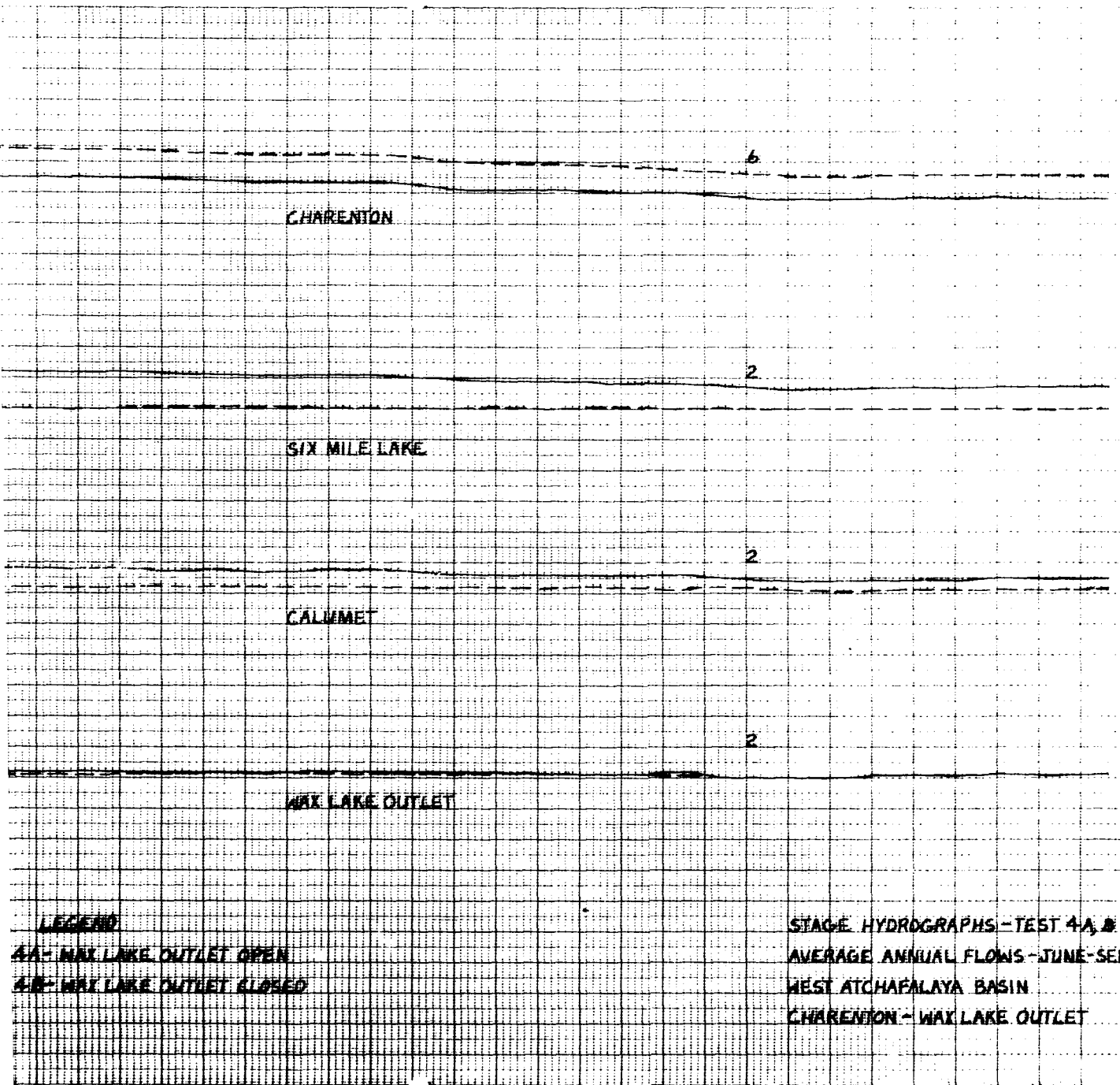
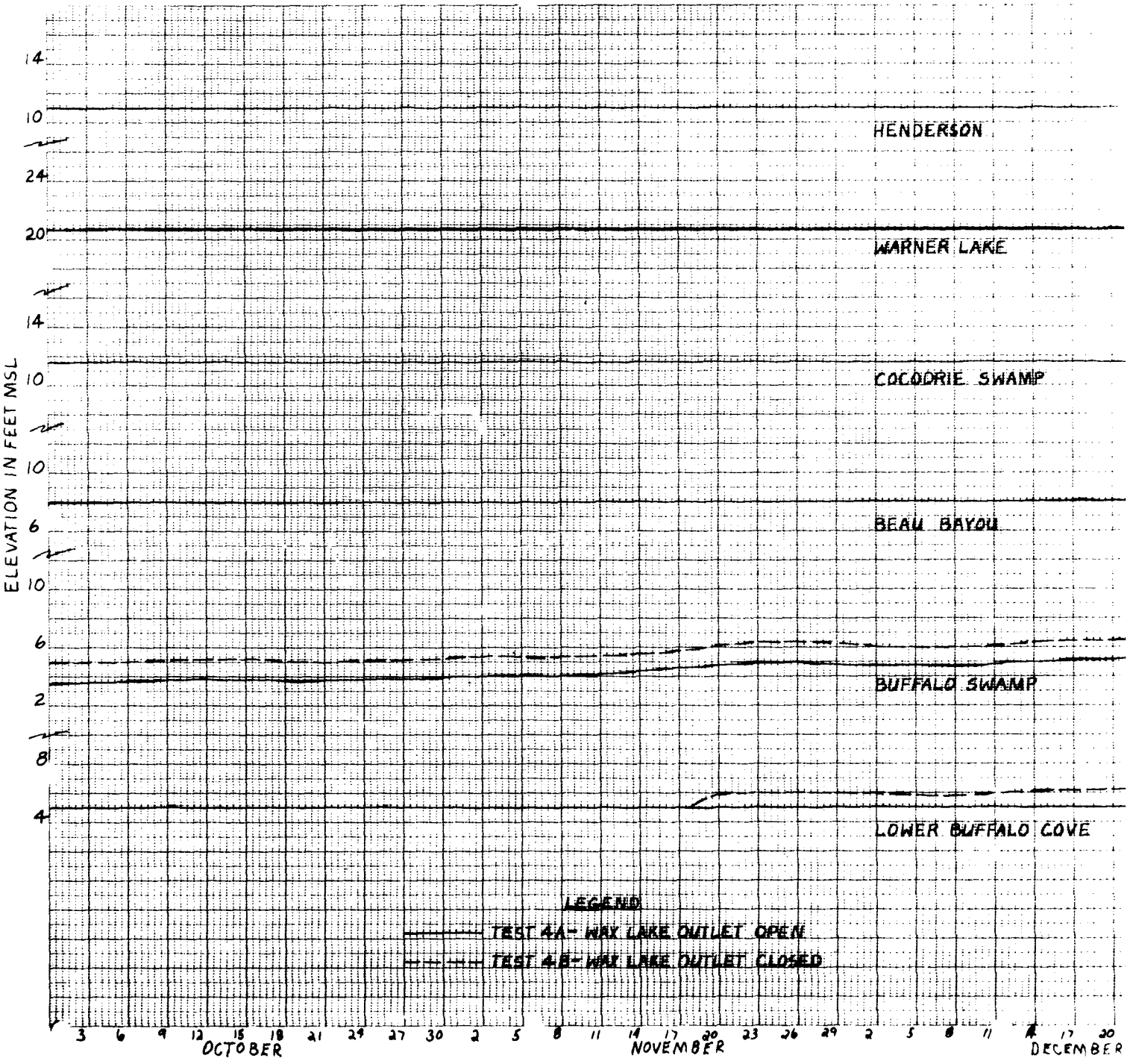

6
CHARENTON
2
SIX MILE LAKE
2
CALUMET
2
WAX LAKE OUTLET
LEGEND
4A- WAX LAKE OUTLET OPEN
4B- WAX LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - JUNE-SEPT
WEST ATCHAFALAYA BASIN
CHARENTON - WAX LAKE OUTLET
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 147


ELEVATION IN FEET MSL
14
10
24
20
14
10
10
6
10
6
2
8
4
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 4A- WAX LAKE OUTLET OPEN
TEST 4B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

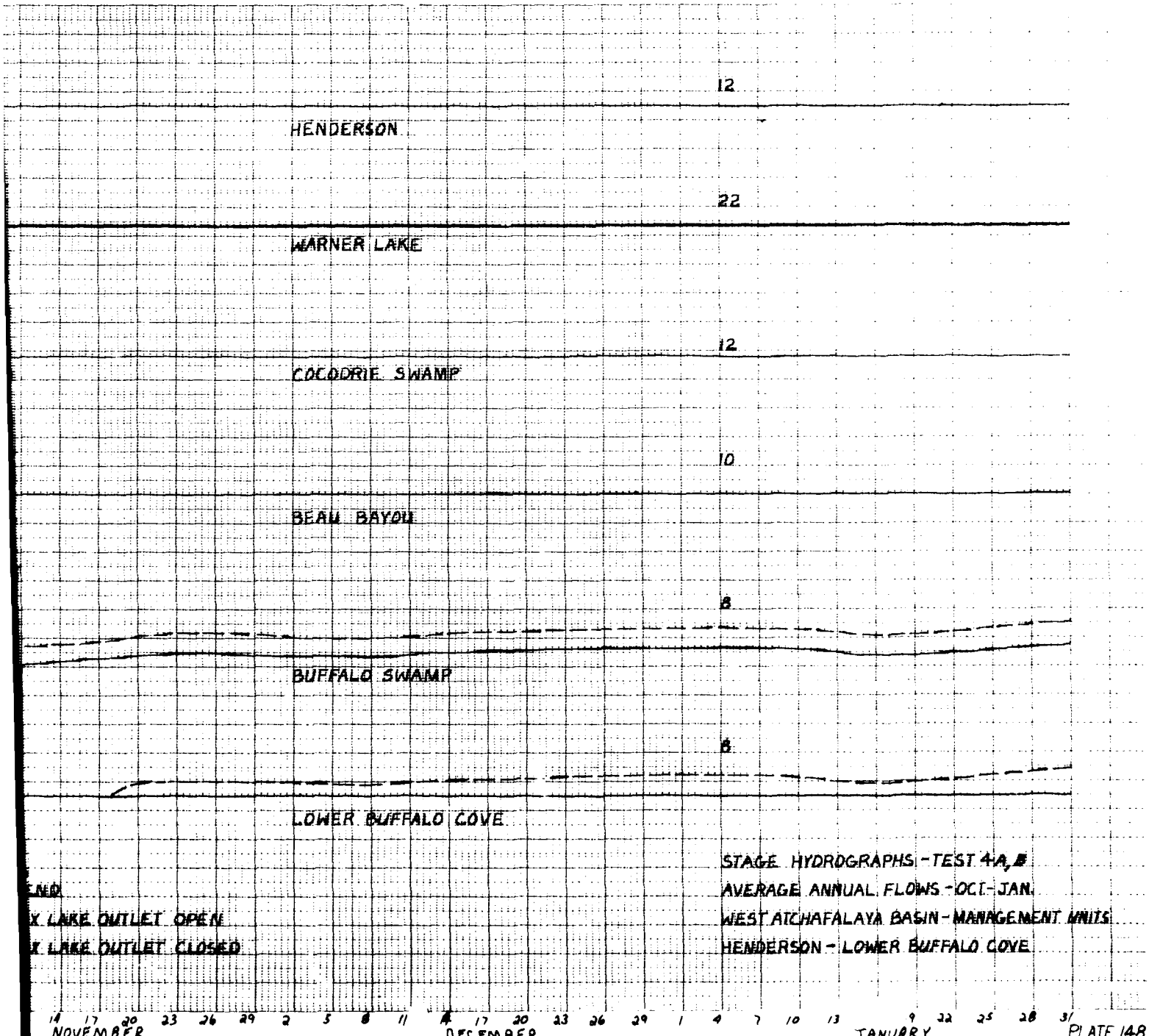
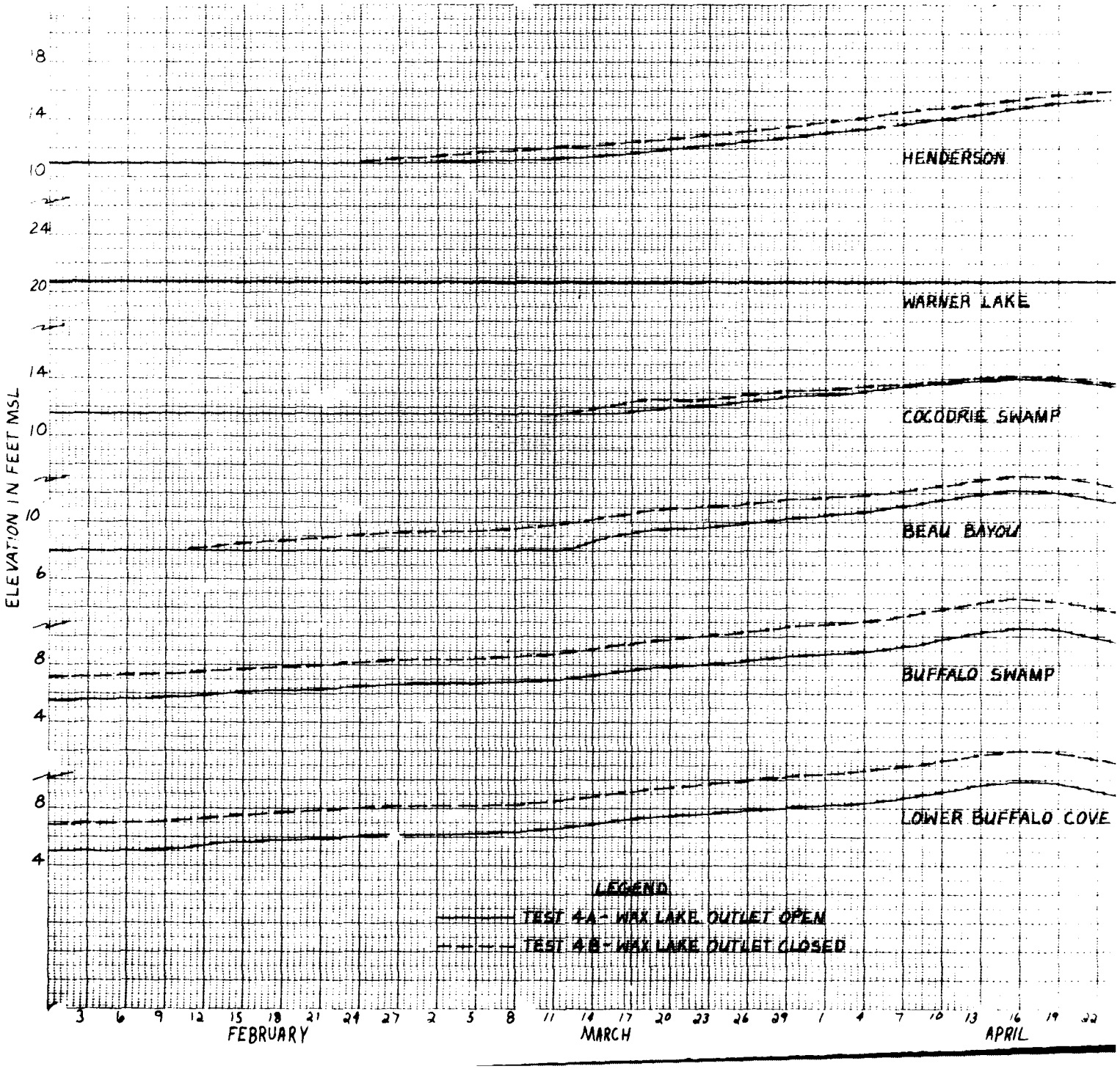
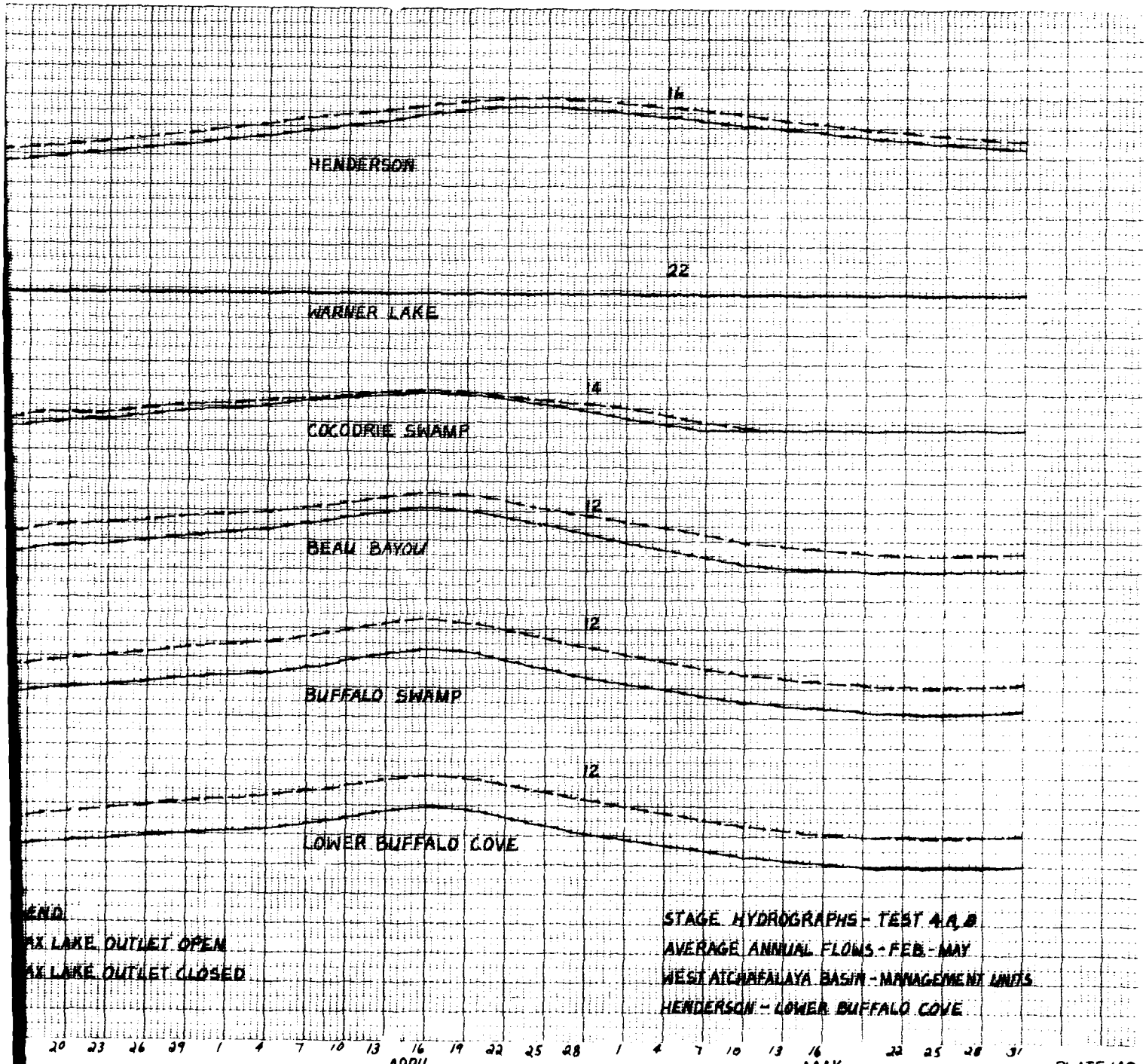

12
HENDERSON
22
WARNER LAKE
12
COCODRIE SWAMP
10
BEAU BAYOU
8
BUFFALO SWAMP
8
LOWER BUFFALO COVE
STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - OCT - JAN.
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE
END
X LAKE OUTLET OPEN
X LAKE OUTLET CLOSED
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 9 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

PLATE 148

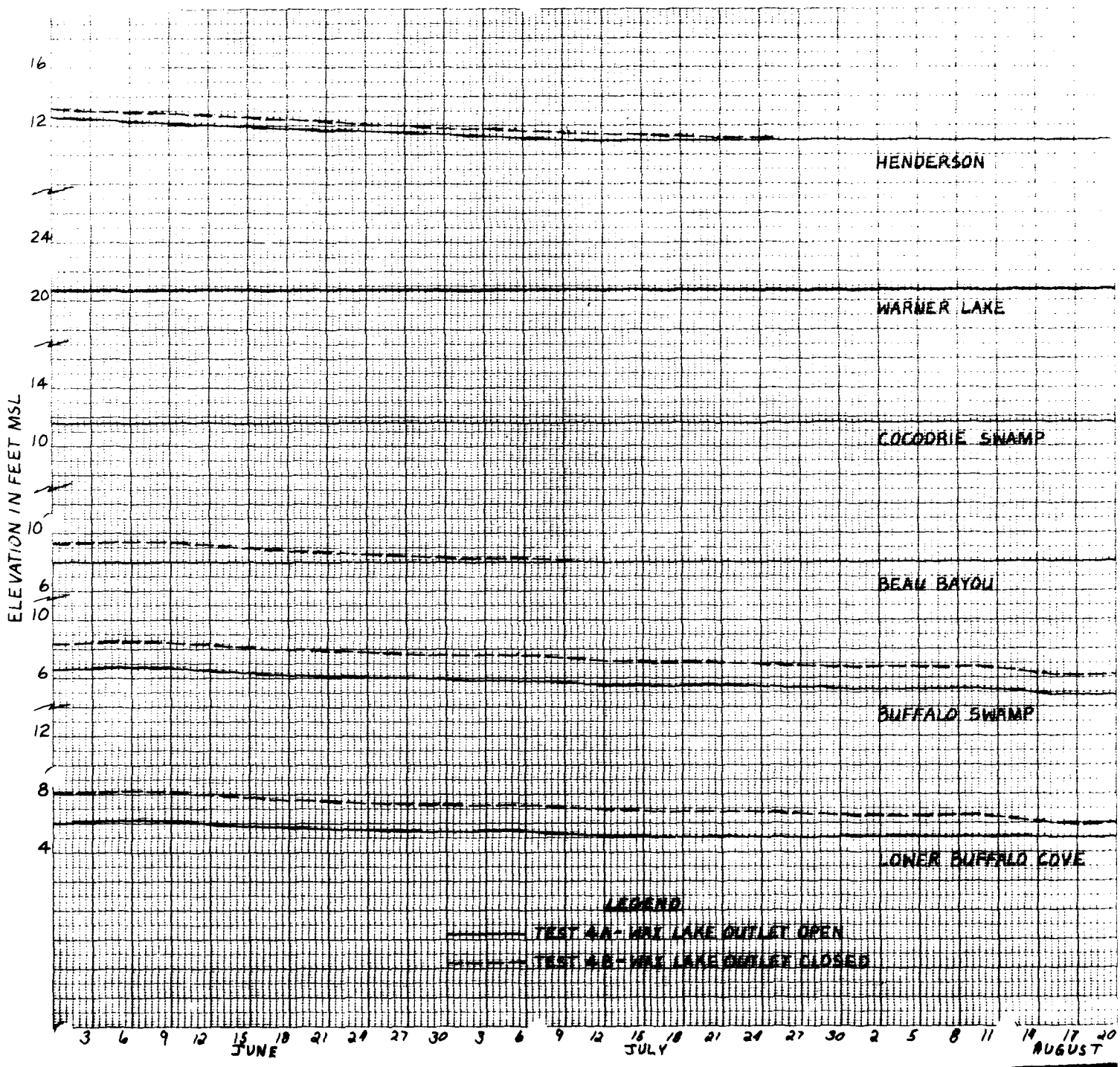

ELEVATION IN FEET MSL
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL



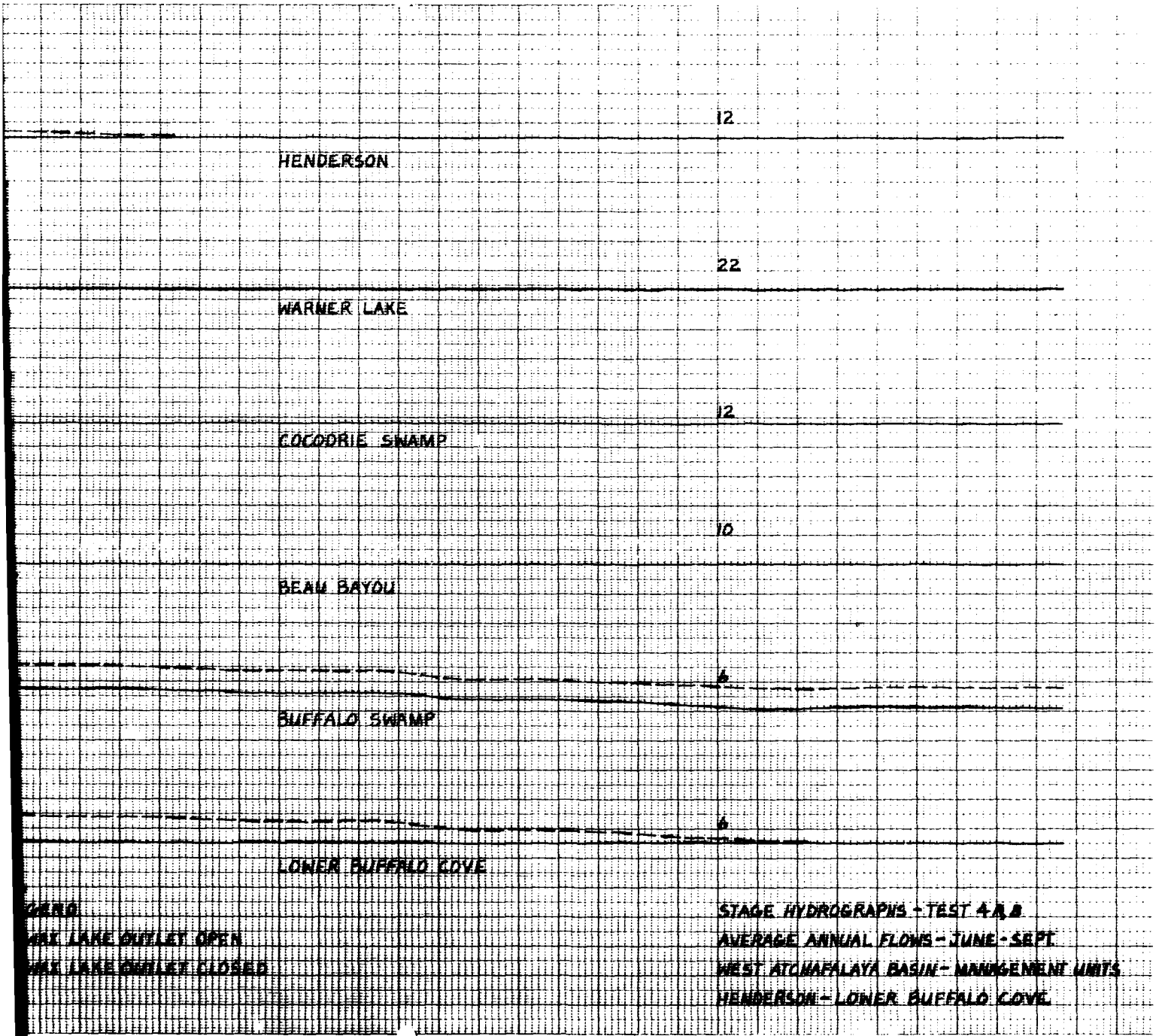
END
AX LAKE OUTLET OPEN
AX LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS - FEB - MAY
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

PLATE 149

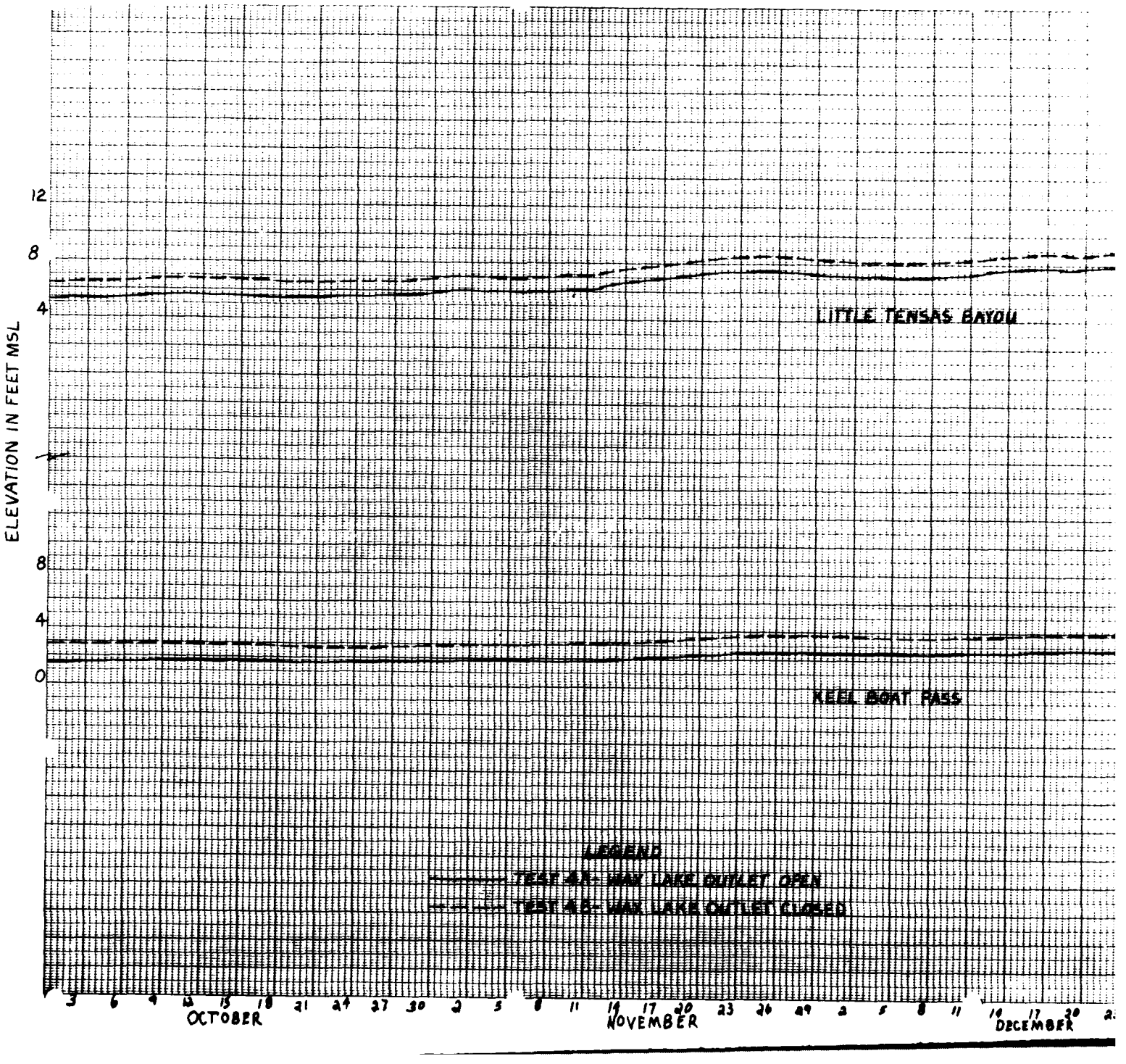

ELEVATION IN FEET MSL
16
12
24
20
14
10
10
6
10
6
12
8
4
HENDERSON
WARNER LAKE
COCODRIE SWAMP
BEAU BAYOU
BUFFALO SWAMP
LOWER BUFFALO COVE
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

2



STAGE HYDROGRAPHS - TEST 4 A,B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
WEST ATCHAFALAYA BASIN - MANAGEMENT UNITS
HENDERSON - LOWER BUFFALO COVE

PLATE 150


ELEVATION IN FEET MSL
12
8
4
8
4
0
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 4A- WHX LAKE OUTLET OPEN
TEST 4B- WHX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
OCTOBER
2 5 8 11 14 17 20 23 26 29
NOVEMBER
2 5 8 11 14 17 20
DECEMBER

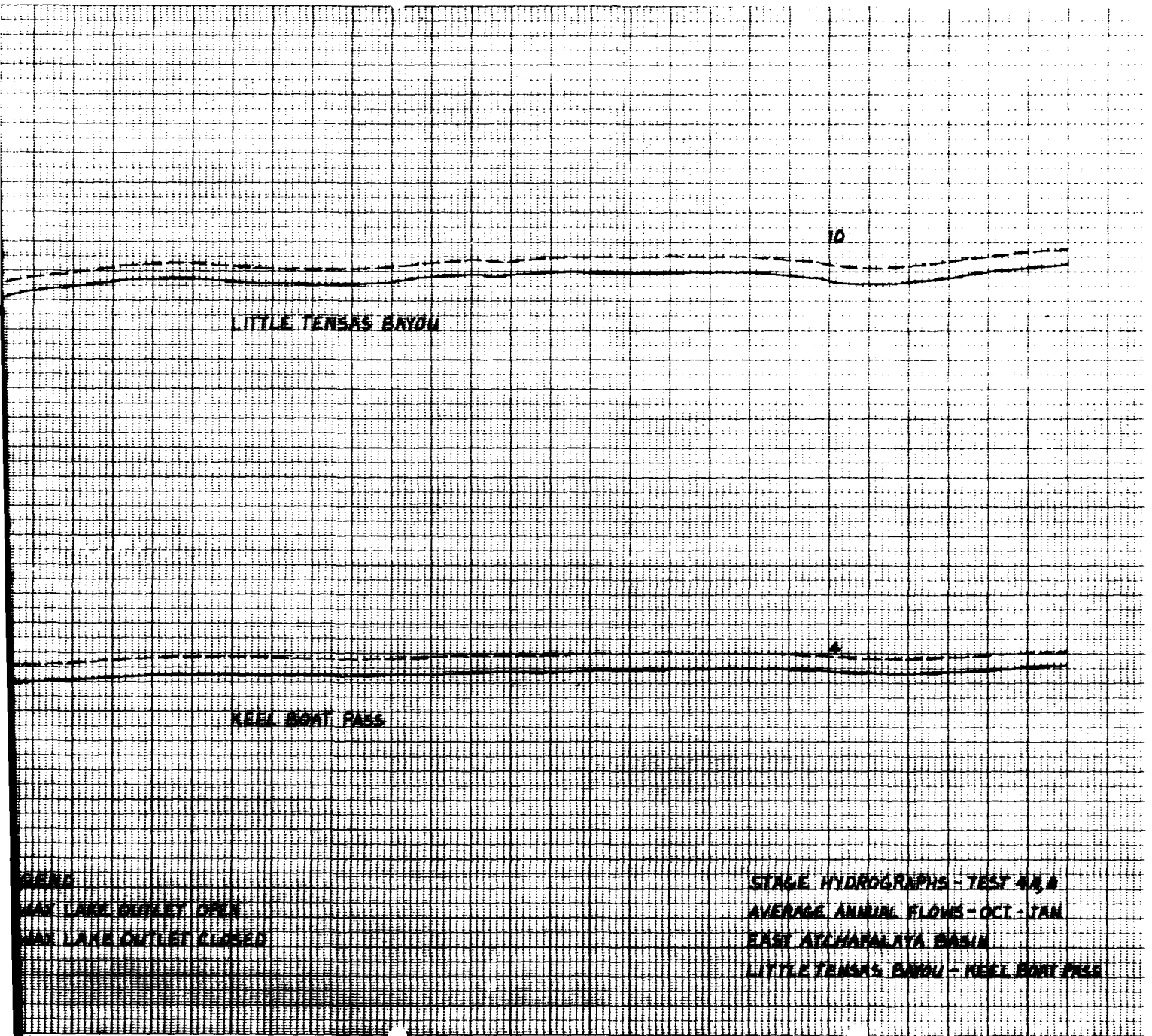
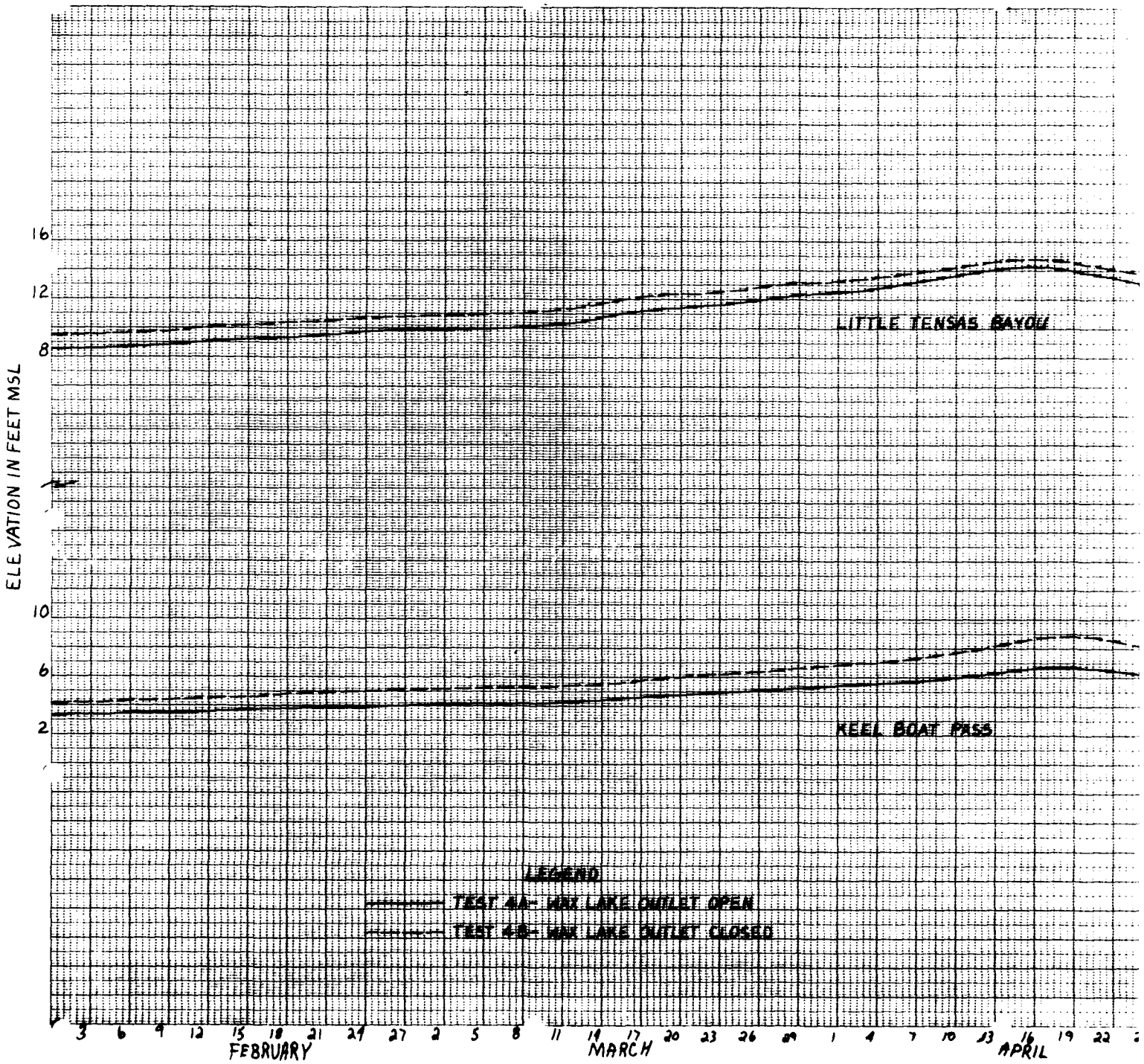
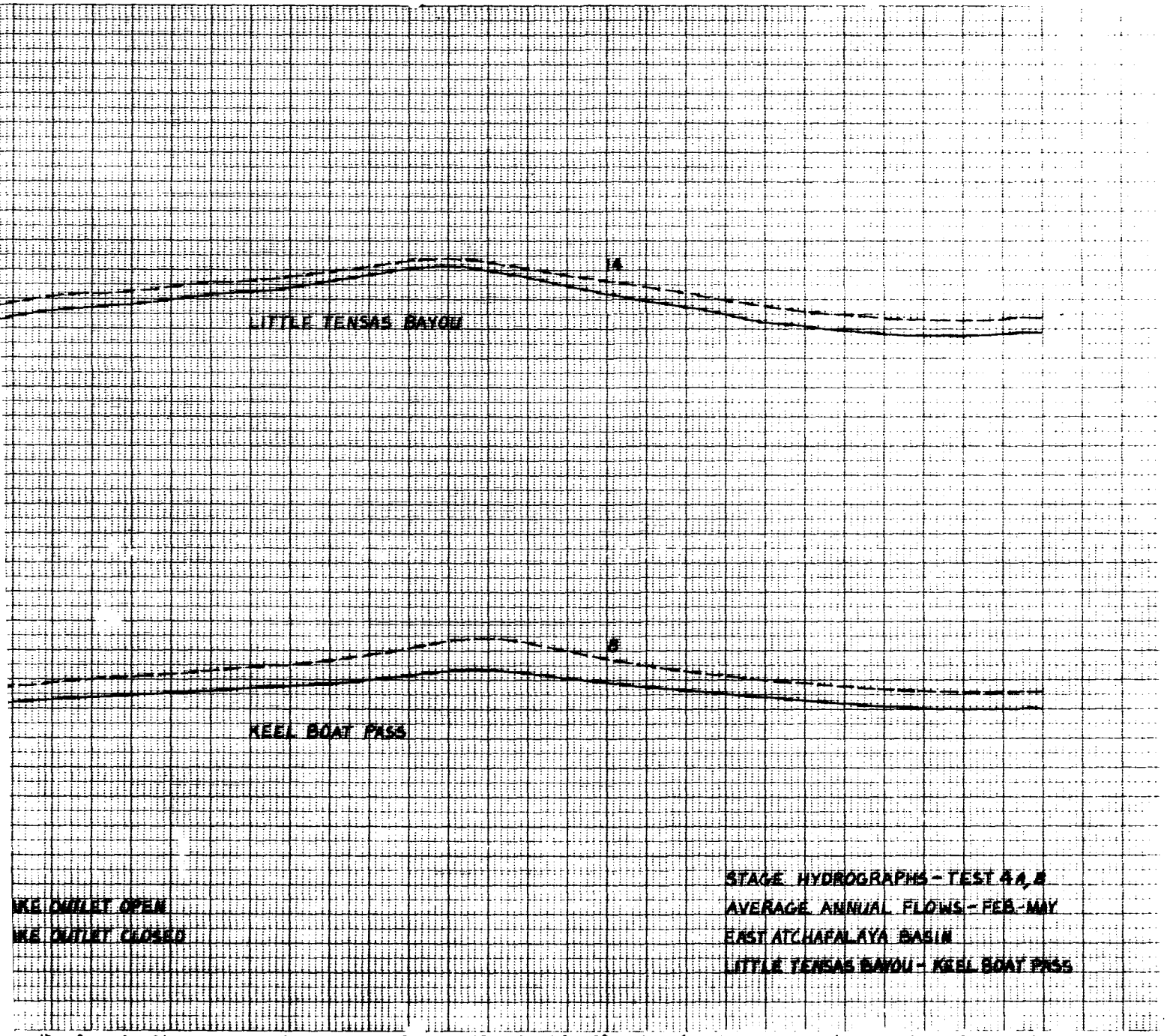

10
LITTLE TENSAS BAYOU
4
KEEL BOAT PASS
GRAD
HAS LAKE OUTLET OPEN
HAS LAKE OUTLET CLOSED
STAGE HYDROGRAPHS - TEST 4A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS
NOVEMBER
DECEMBER
JANUARY

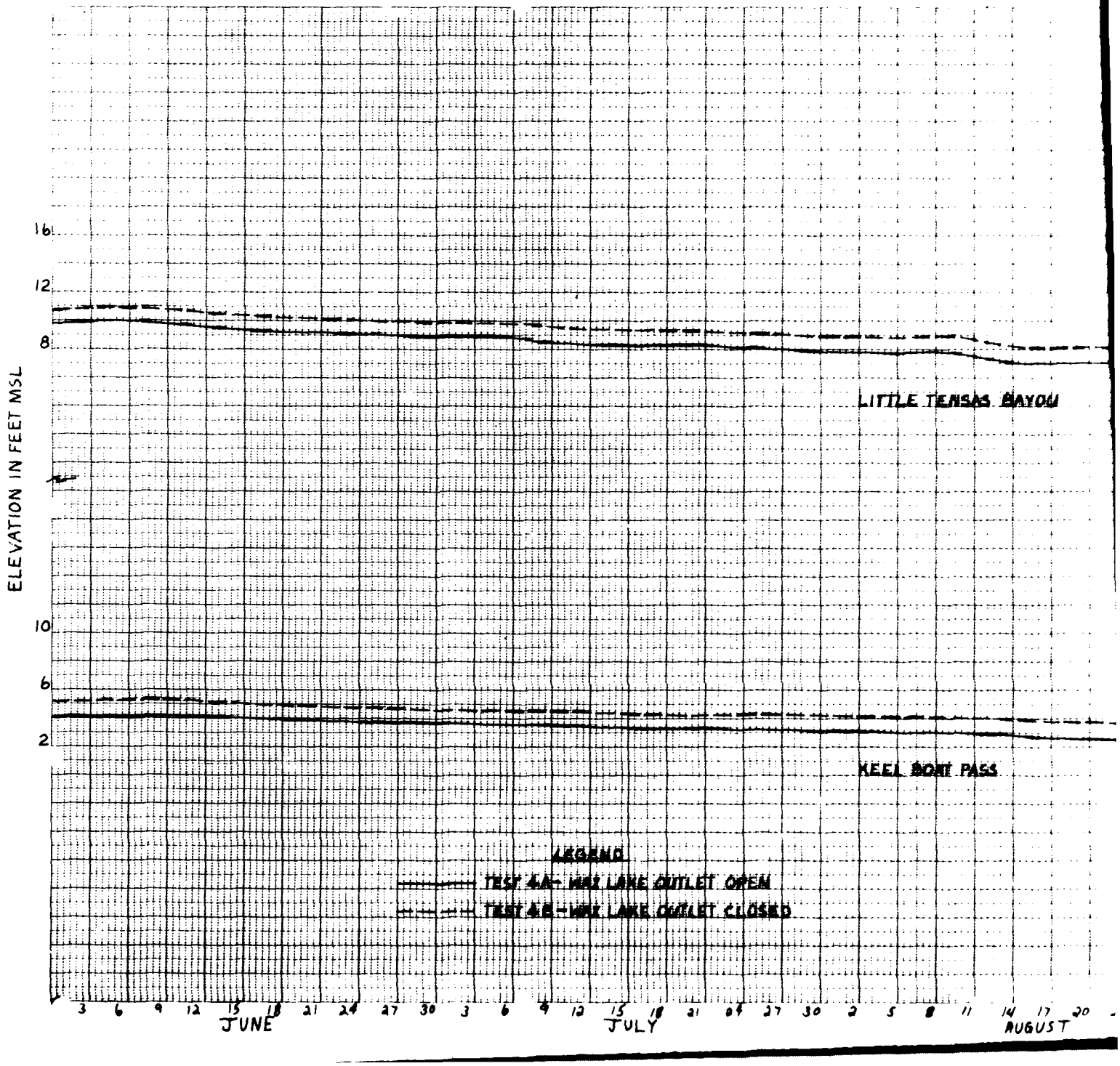
PLATE 151


ELEVATION IN FEET MSL
16
12
8
10
6
2
LITTLE TENSAS BAYOU
KEEL BOAT PASS
LEGEND
TEST 4A- WAX LAKE OUTLET OPEN
TEST 4B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL

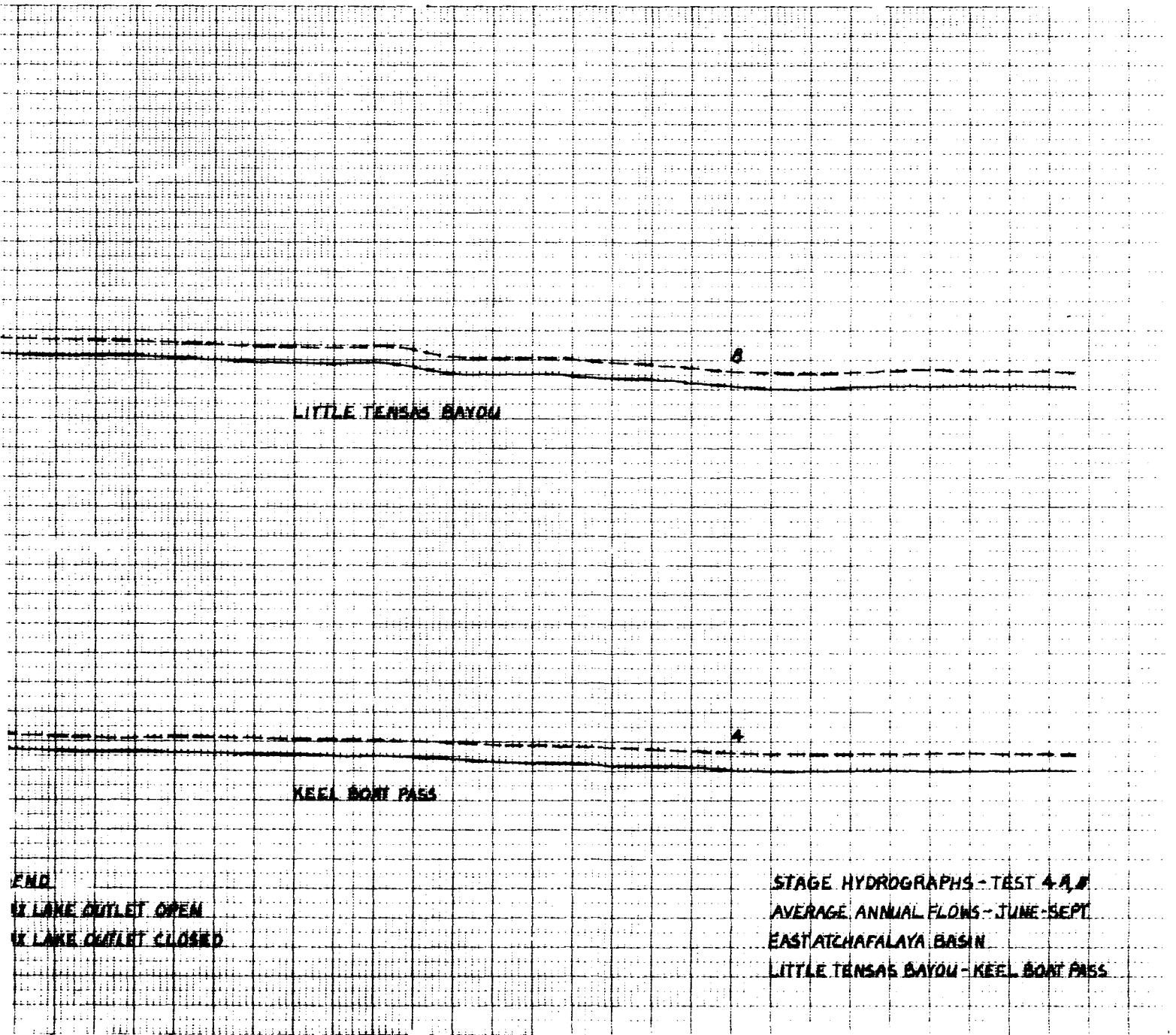


STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - FEB-MAY
EAST ATCHAFALAYA BASIN
LITTLE TENSAS BAYOU - KEEL BOAT PASS

PLATE 152


ELEVATION IN FEET MSL
16
12
8
10
6
2
LITTLE TENSAS BAYOU
KEEL BONE PASS
LEGEND
TEST 4A- WEST LAKE OUTLET OPEN
TEST 4B-WEST LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

2



END

X LAKE OUTLET OPEN

X LAKE OUTLET CLOSED

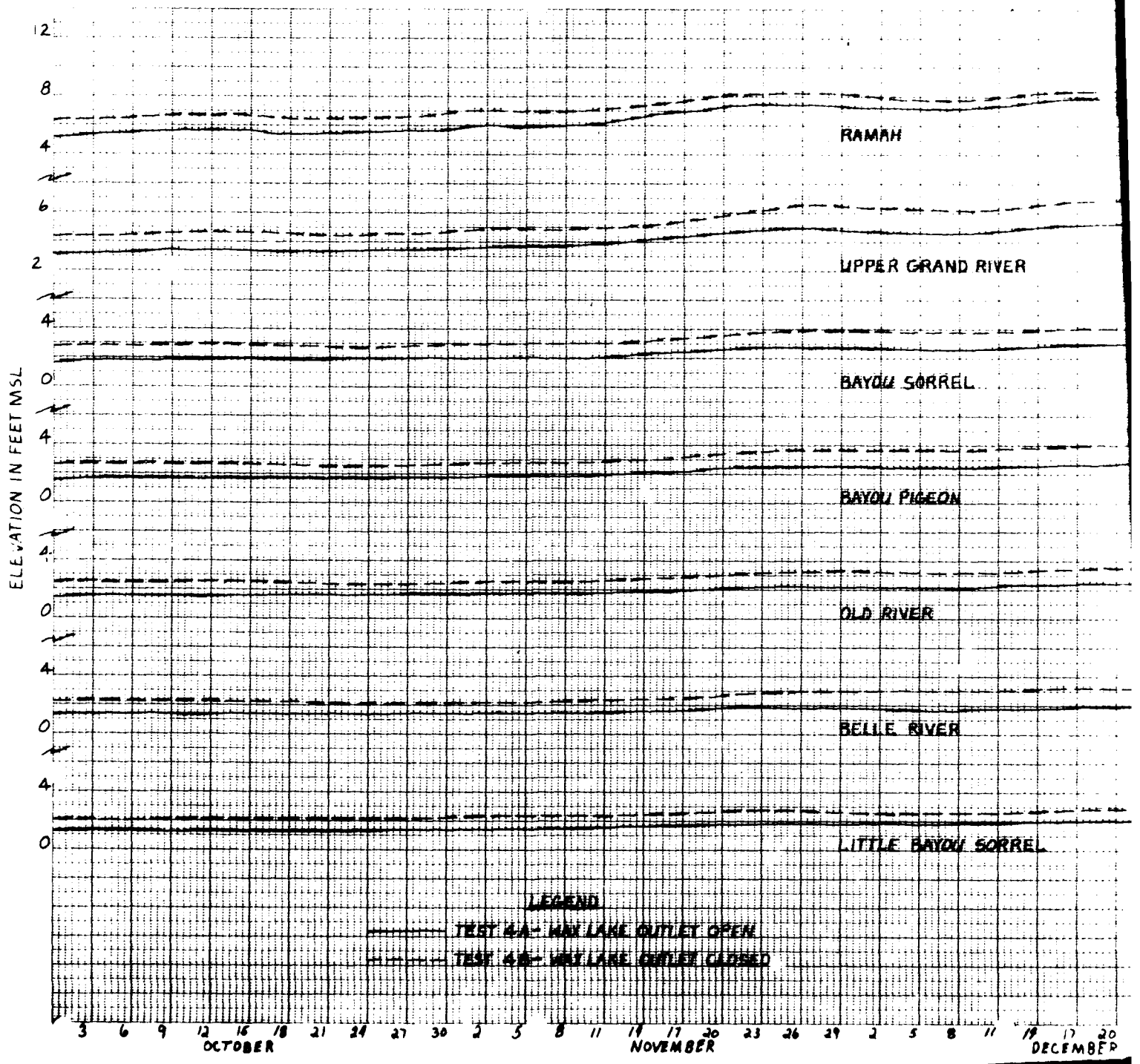
STAGE HYDROGRAPHS - TEST 4A,B

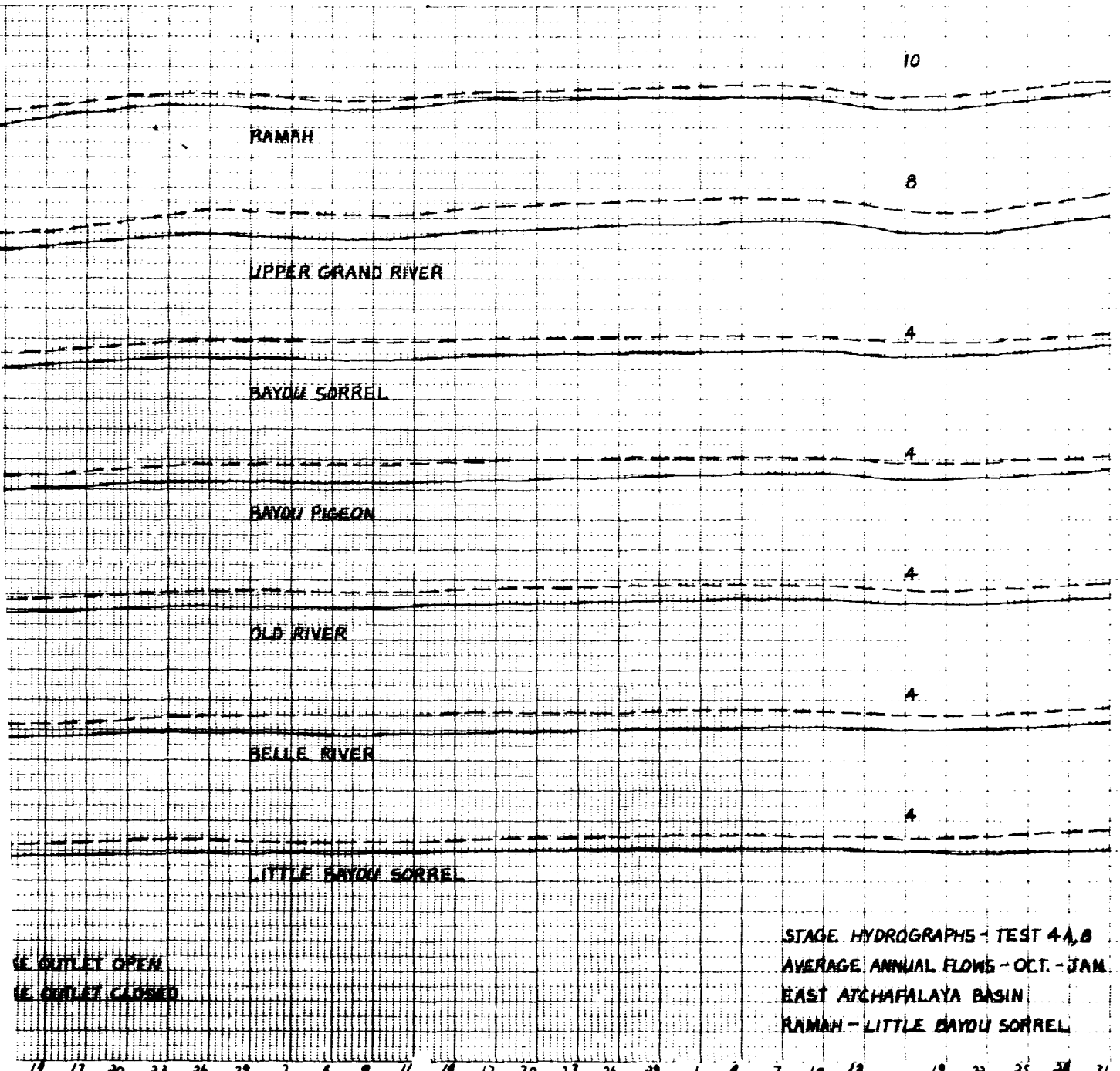
AVERAGE ANNUAL FLOWS - JUNE-SEPT.

EAST ATCHAFALAYA BASIN

LITTLE TENSAS BAYOU - KEEL BOAT PASS

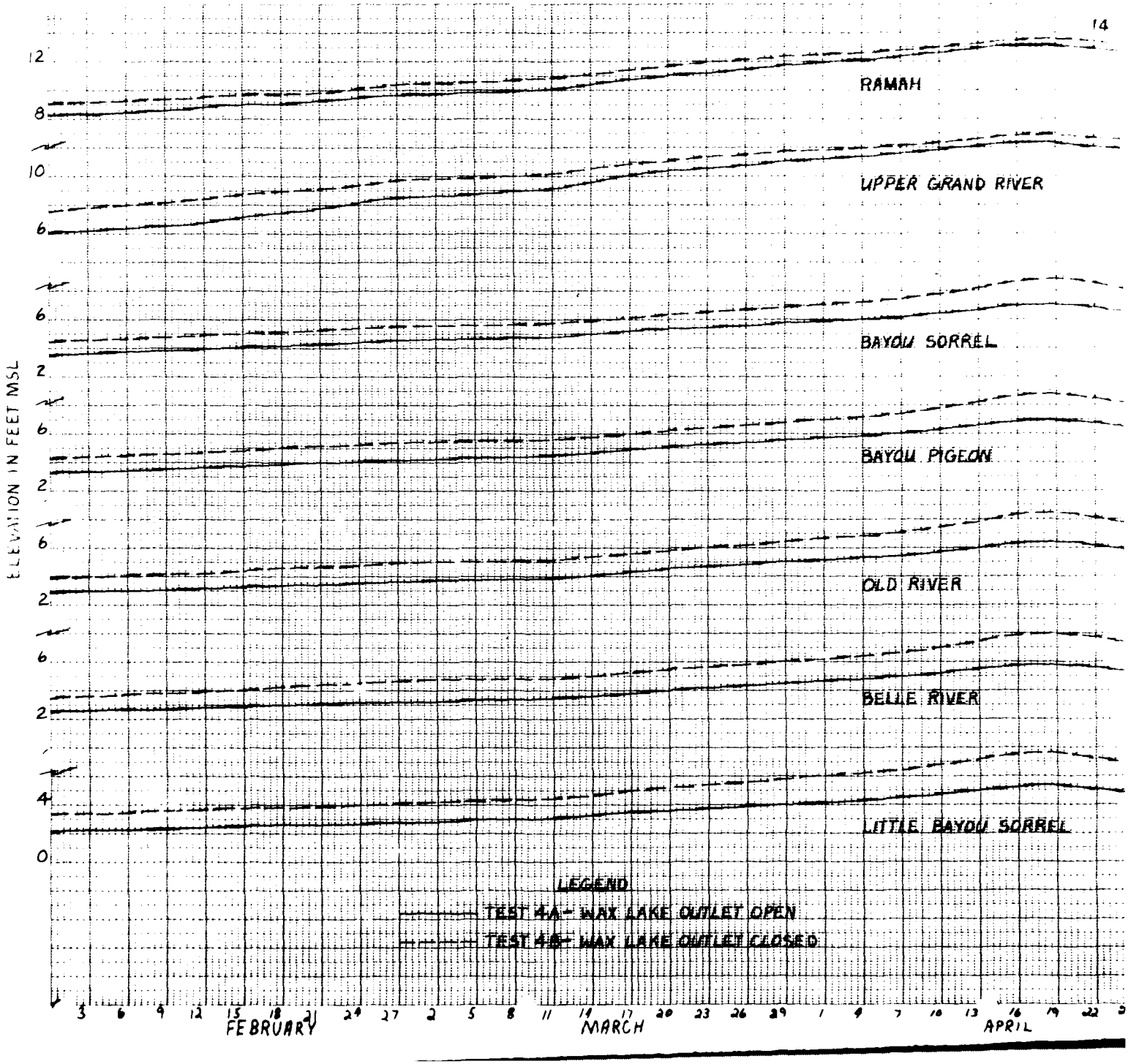
PLATE 153

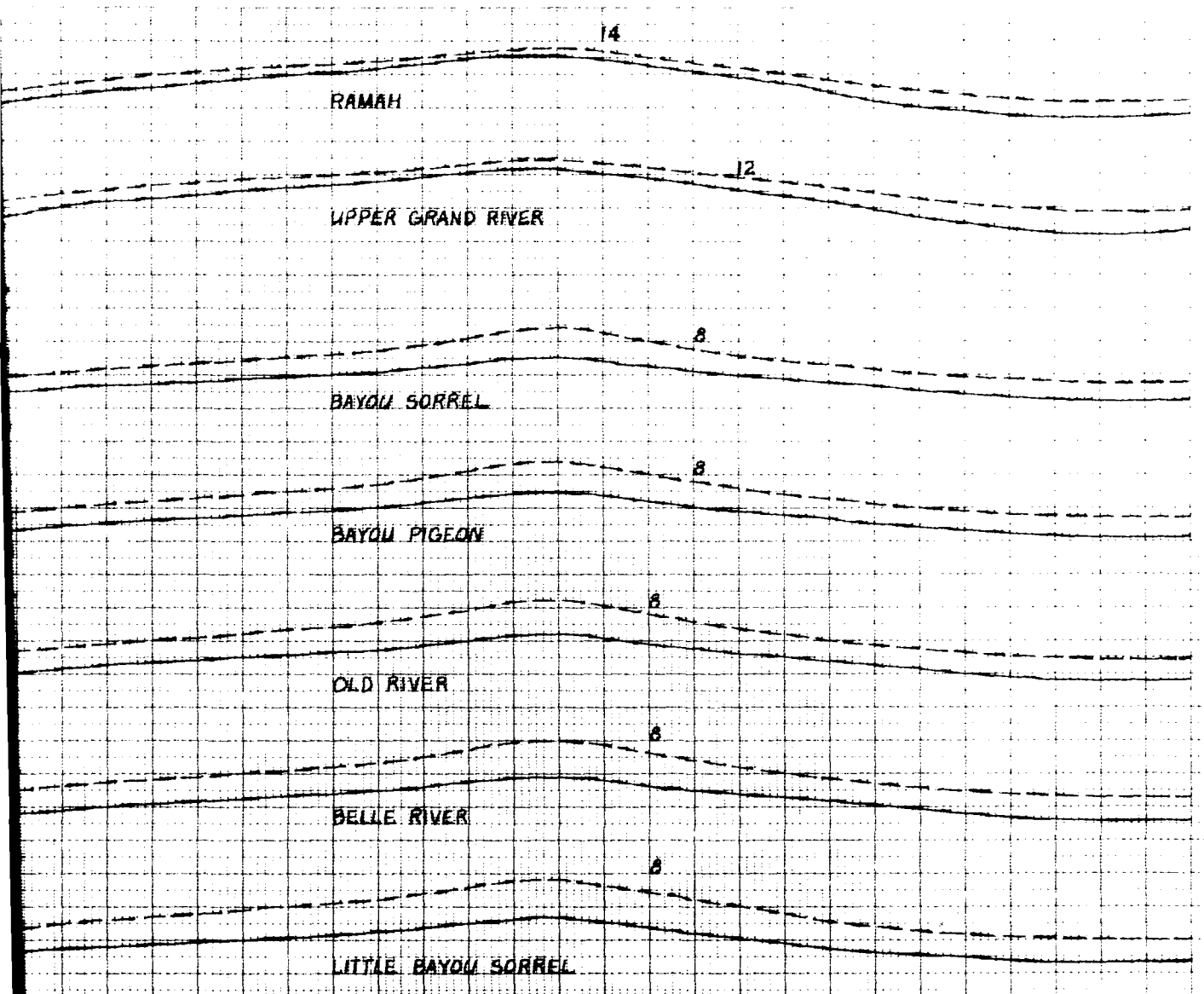

ELEVATION IN FEET MSL
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 4A- WAX LAKE OUTLET OPEN
TEST 4B- WAX LAKE OUTLET CLOSED
OCTOBER
NOVEMBER
DECEMBER



STAGE HYDROGRAPHS - TEST 4-A,B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL

PLATE 154


RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
ELEVATION IN FEET MSL
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
FEBRUARY
MARCH
APRIL

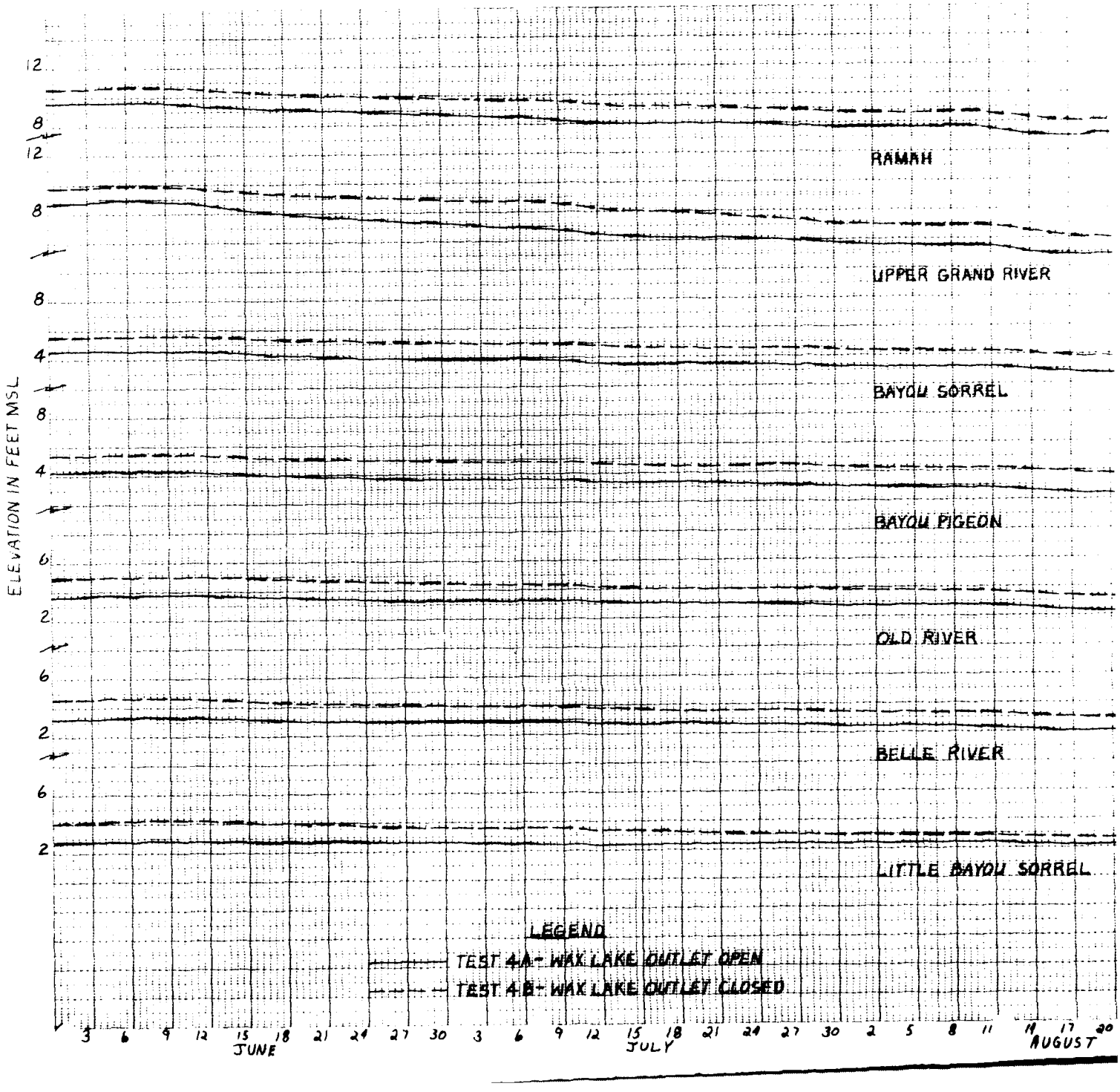


...ND
...X LAKE OUTLET OPEN
...X LAKE OUTLET CLOSED

STAGE HYDROGRAPHS - TEST 4 ...B
AVERAGE ANNUAL FLOWS - FEB - MAY
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL

...RCH 11 20 23 26 29 1 4 7 10 13 16 19 22 25 28 1 4 7 10 13 16 19 22 25 28 31
APRIL
MAY

PLATE 155


ELEVATION IN FEET MSL
12
8
12
8
8
4
8
4
6
2
6
2
6
2
RAMAH
UPPER GRAND RIVER
BAYOU SORREL
BAYOU PIGEON
OLD RIVER
BELLE RIVER
LITTLE BAYOU SORREL
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

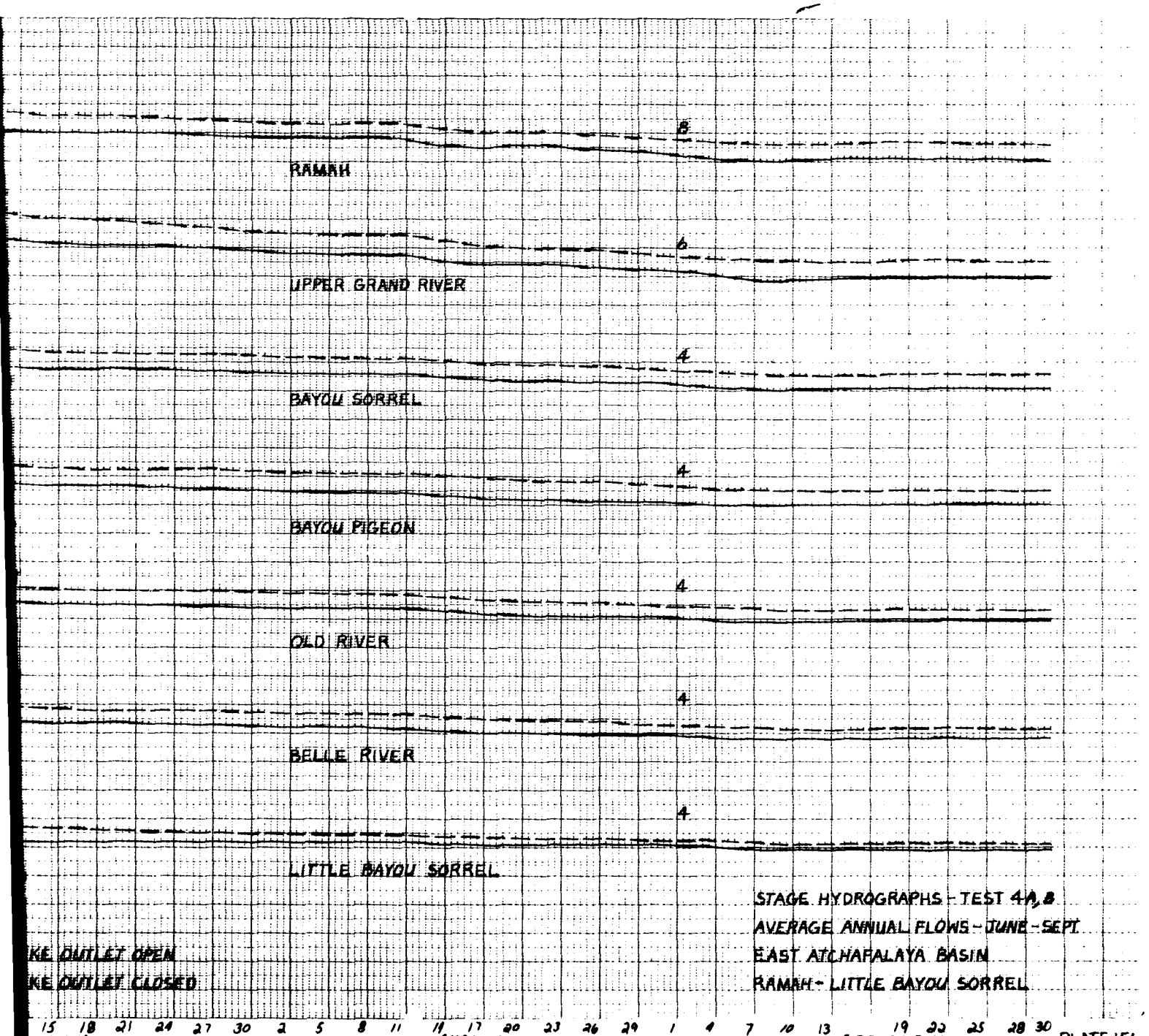
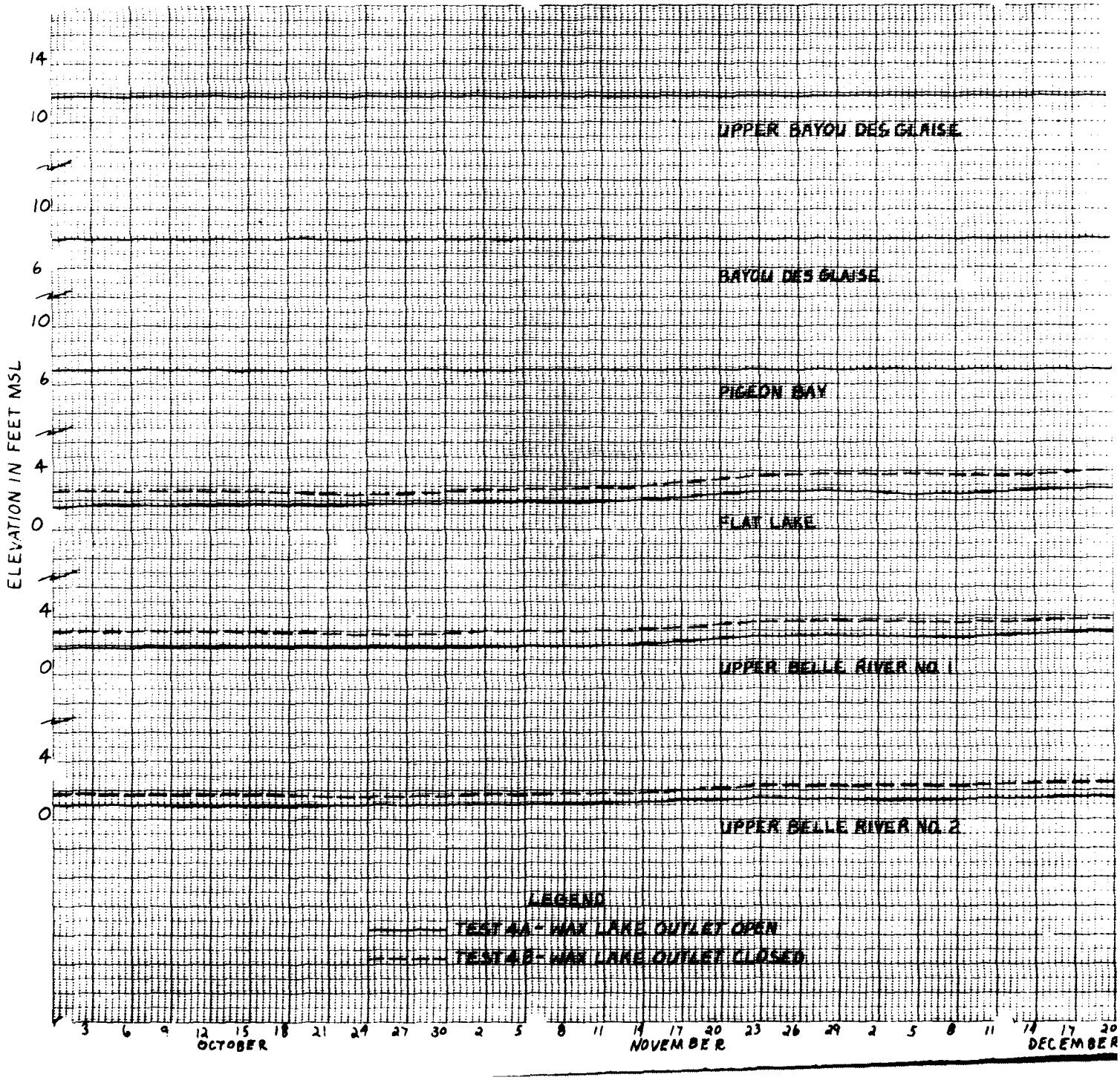

8
RAMAH
6
UPPER GRAND RIVER
4
BAYOU SORREL
4
BAYOU PIGEON
4
OLD RIVER
4
BELLE RIVER
4
LITTLE BAYOU SORREL
STAGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN
RAMAH - LITTLE BAYOU SORREL
KE OUTLET OPEN
KE OUTLET CLOSED
15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 156


ELEVATION IN FEET MSL
14
10
10
6
10
6
4
0
4
0
4
0
UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
LEGEND
TEST 4A - WAX LAKE OUTLET OPEN
TEST 4B - WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 2 5 8 11 14 17 20
OCTOBER
NOVEMBER
DECEMBER

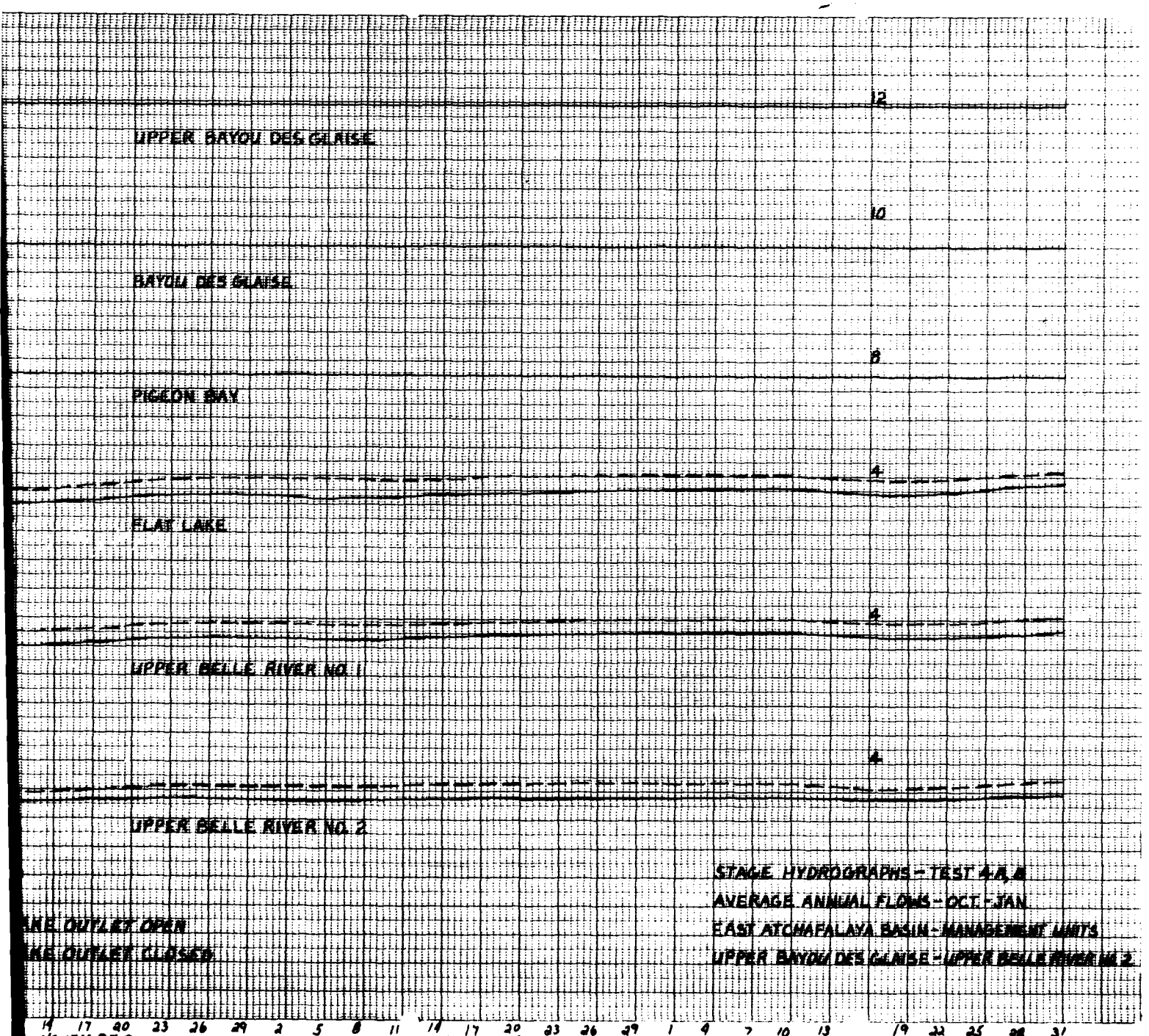
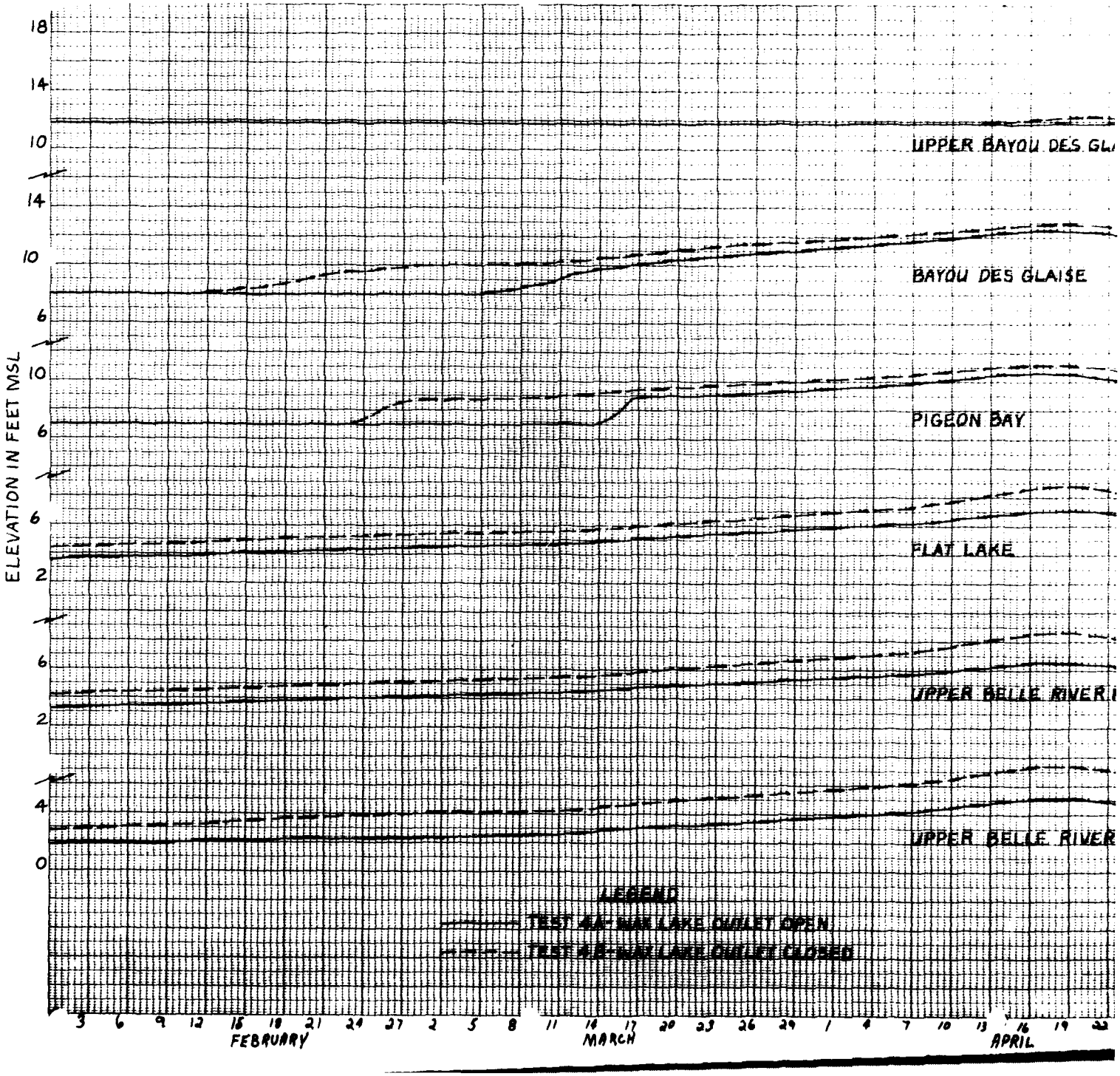
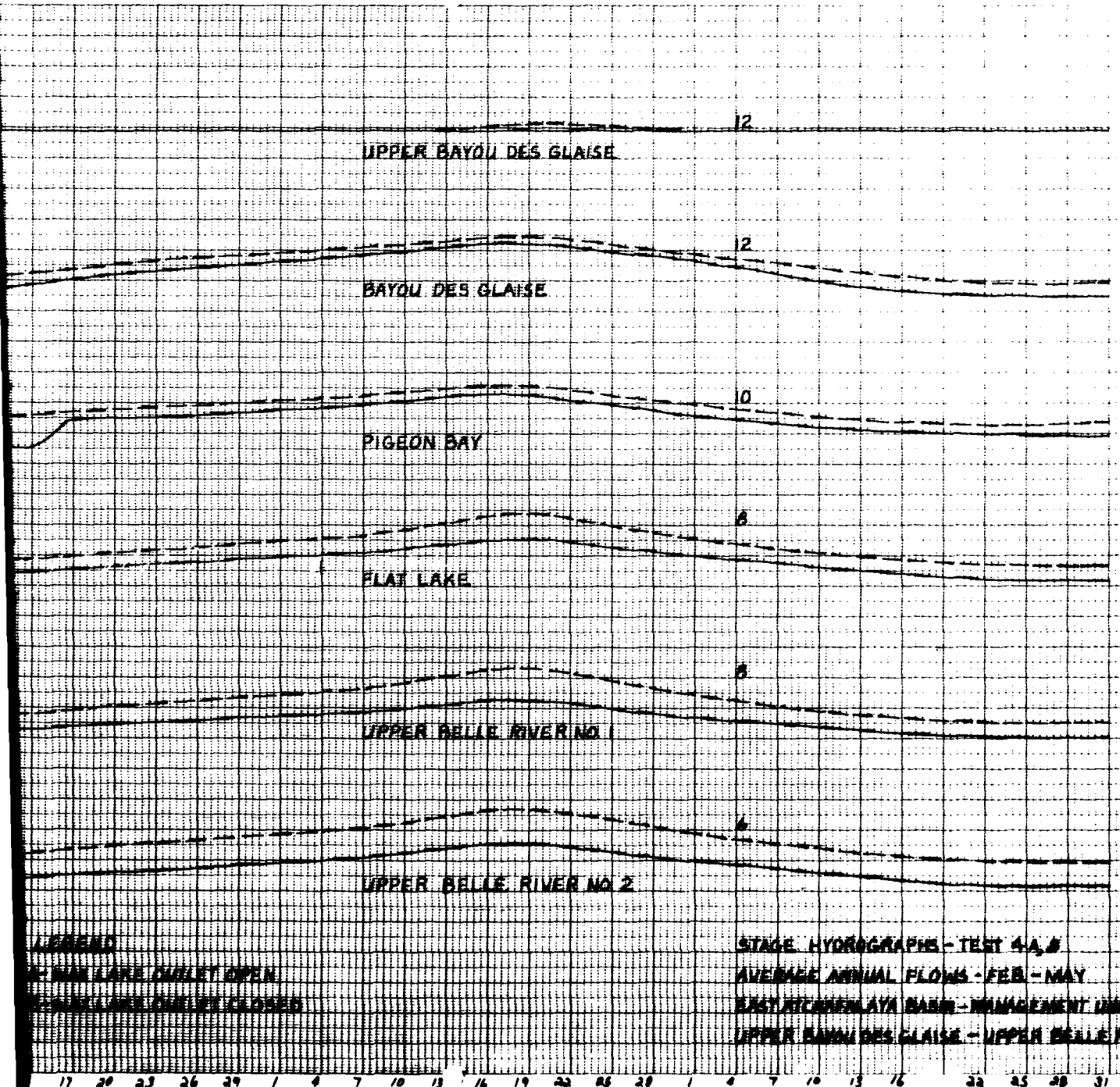

UPPER BAYOU DES GLAISE
12
BAYOU DES GLAISE
10
PIGEON BAY
8
FLAT LAKE
4
UPPER BELLE RIVER NO. 1
4
UPPER BELLE RIVER NO. 2
4
STAGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - OCT. - JAN.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2
AKE OUTLET OPEN
AKE OUTLET CLOSED
14 17 20 23 26 29 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 31
NOVEMBER
DECEMBER
JANUARY

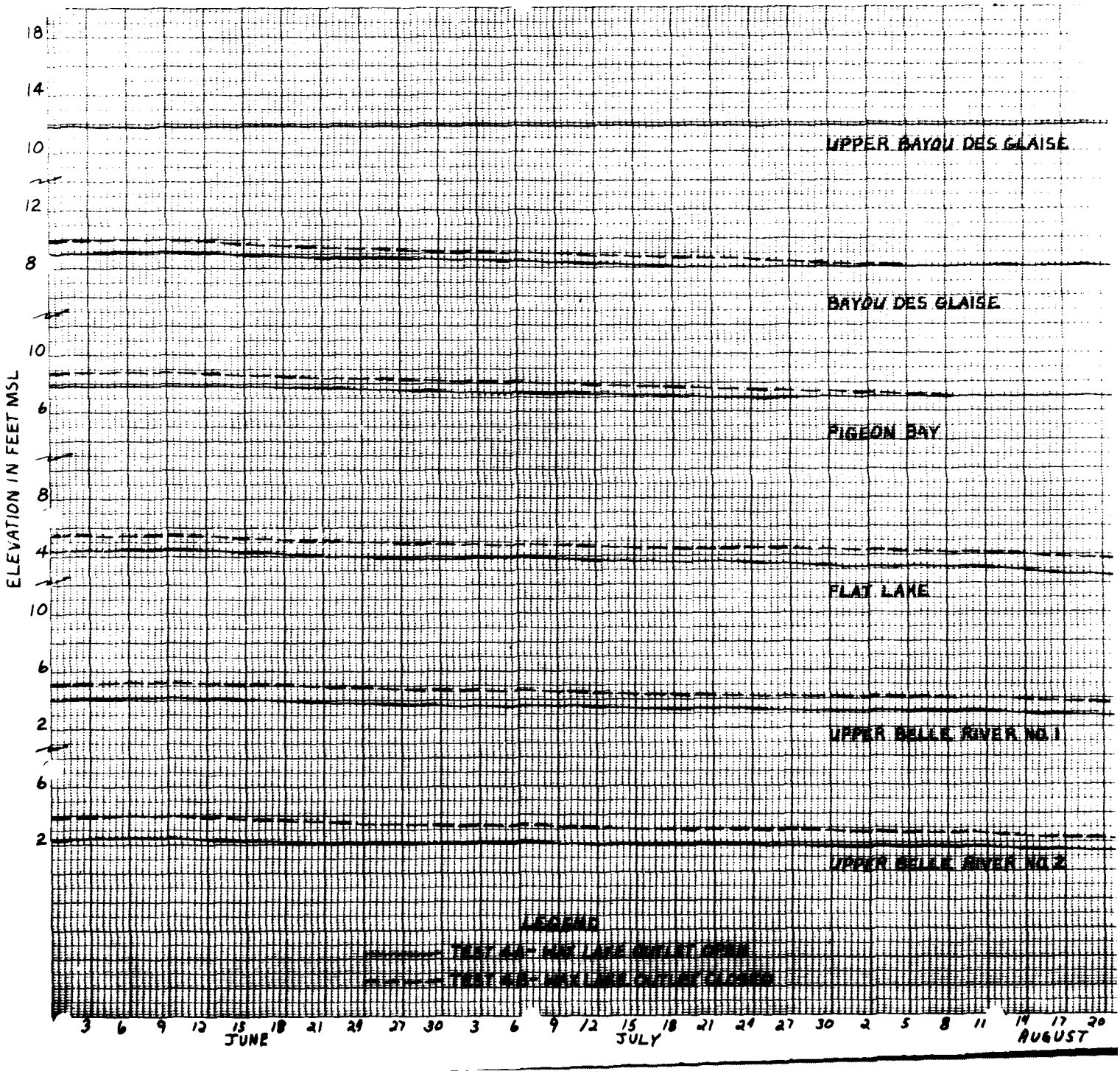
PLATE 157


ELEVATION IN FEET MSL
18
14
10
14
10
6
10
6
6
2
6
2
4
0
UPPER BAYOU DES GL
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER
UPPER BELLE RIVER
LEGEND
TEST 4A- WAX LAKE OUTLET OPEN.
TEST 4B- WAX LAKE OUTLET CLOSED
3 6 9 12 15 18 21 24 27 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 16 19 22
FEBRUARY
MARCH
APRIL



STAGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - FEB. - MAY
RED-ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2

PLATE 158


ELEVATION IN FEET MSL
18
14
10
12
8
10
6
8
4
10
6
2
6
2
UPPER BAYOU DES GLAISE
BAYOU DES GLAISE
PIGEON BAY
FLAT LAKE
UPPER BELLE RIVER NO. 1
UPPER BELLE RIVER NO. 2
LEGEND
3 6 9 12 15 18 21 24 27 30
JUNE
3 6 9 12 15 18 21 24 27 30
JULY
2 5 8 11 14 17 20
AUGUST

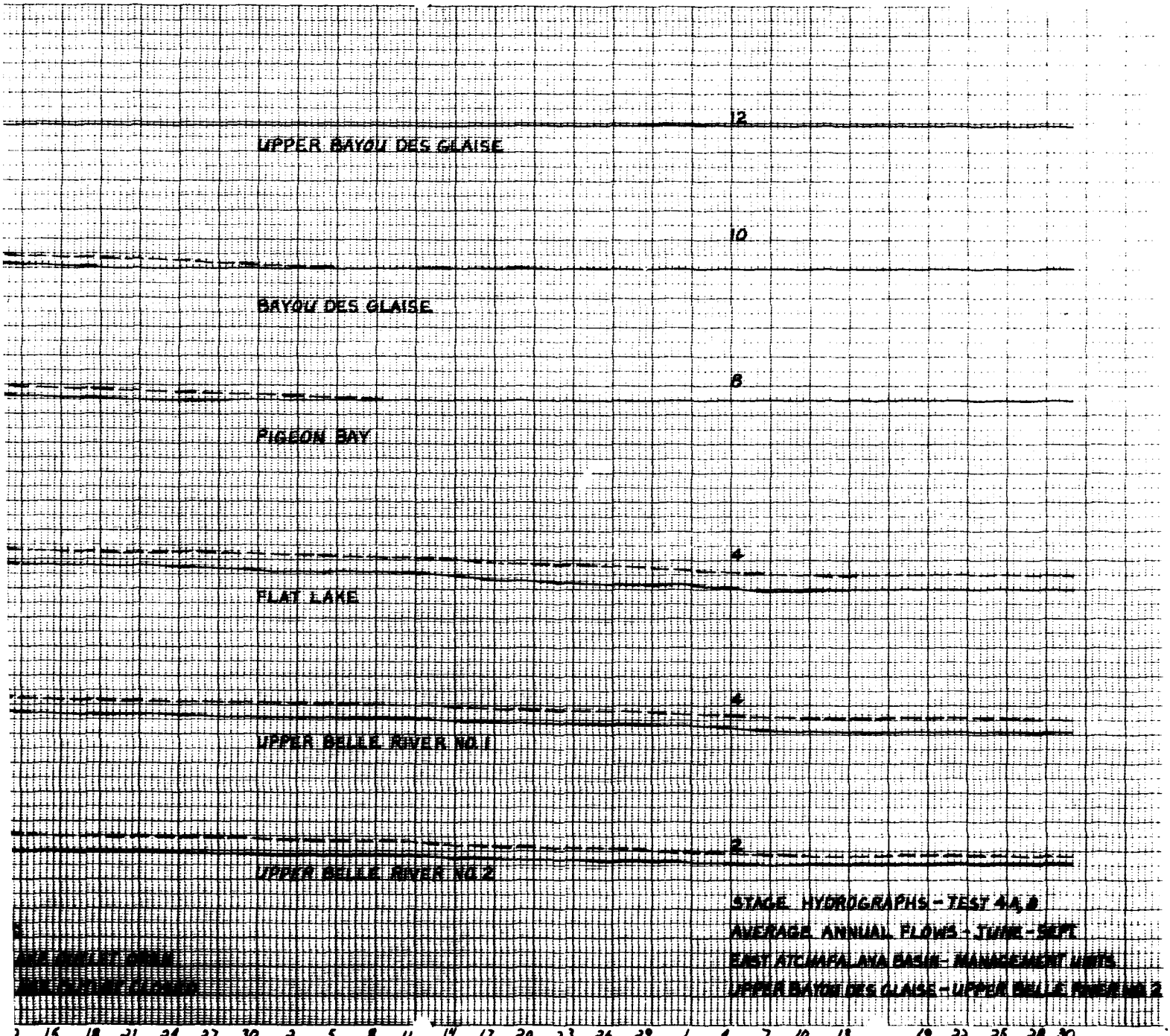
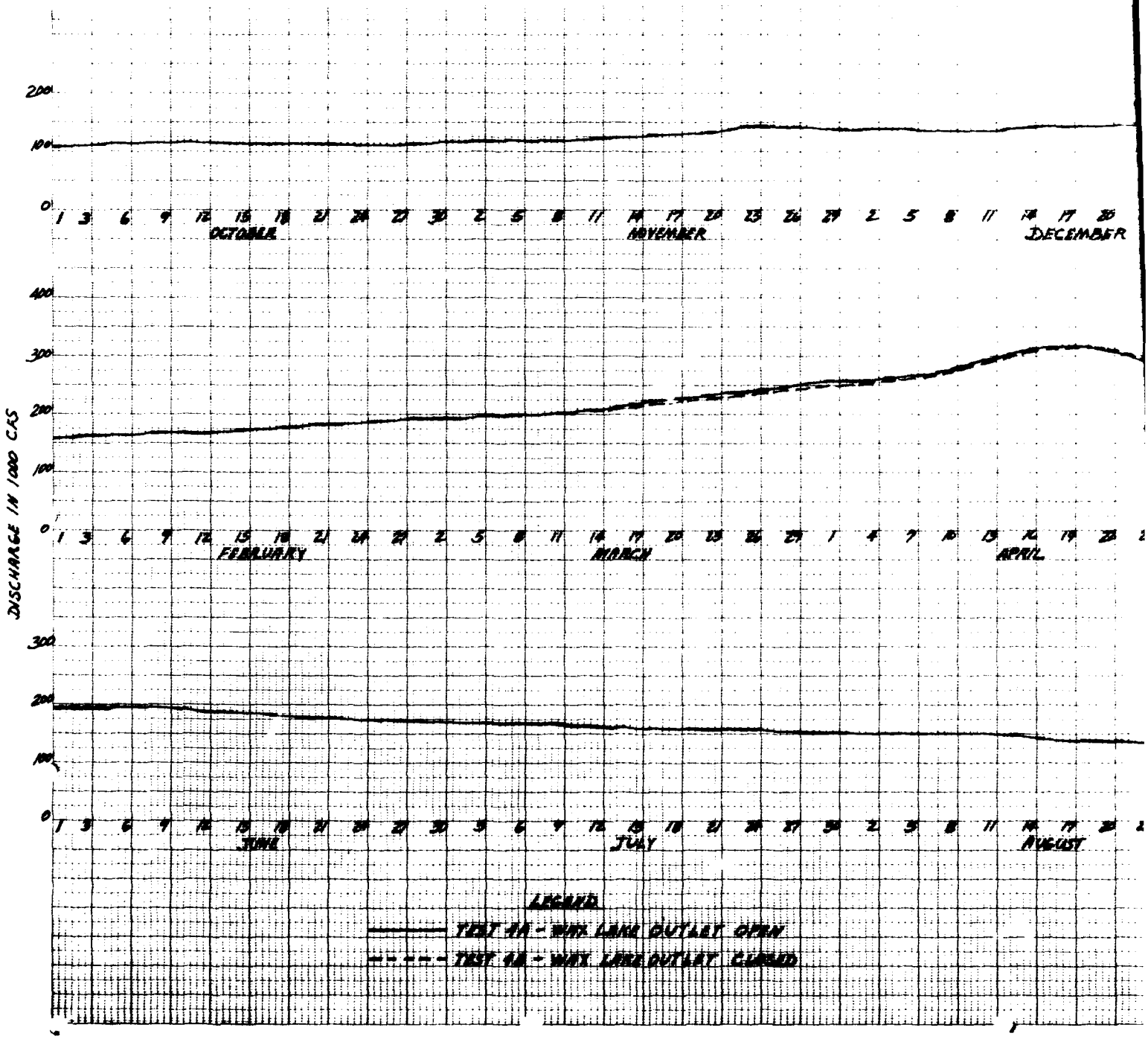

12
UPPER BAYOU DES GLAISE
10
BAYOU DES GLAISE
8
PIGEON BAY
4
FLAT LAKE
4
UPPER BELLE RIVER NO. 1
2
UPPER BELLE RIVER NO. 2
STAGE HYDROGRAPHS - TEST 4A, B
AVERAGE ANNUAL FLOWS - JUNE - SEPT.
EAST ATCHAFALAYA BASIN - MANAGEMENT UNITS
UPPER BAYOU DES GLAISE - UPPER BELLE RIVER NO. 2
1 15 18 21 24 27 30 2 5 8 11 14 17 20 23 26 29 1 4 7 10 13 19 22 25 28 30
JULY
AUGUST
SEPTEMBER

PLATE 159


DISCHARGE IN 1000 CFS
OCTOBER
NOVEMBER
DECEMBER
FEBRUARY
MARCH
APRIL
JUNE
JULY
AUGUST
LEGEND
TEST 4A - MIN. LAKE OUTLET OPEN
TEST 4A - MIN. LAKE OUTLET CLOSED

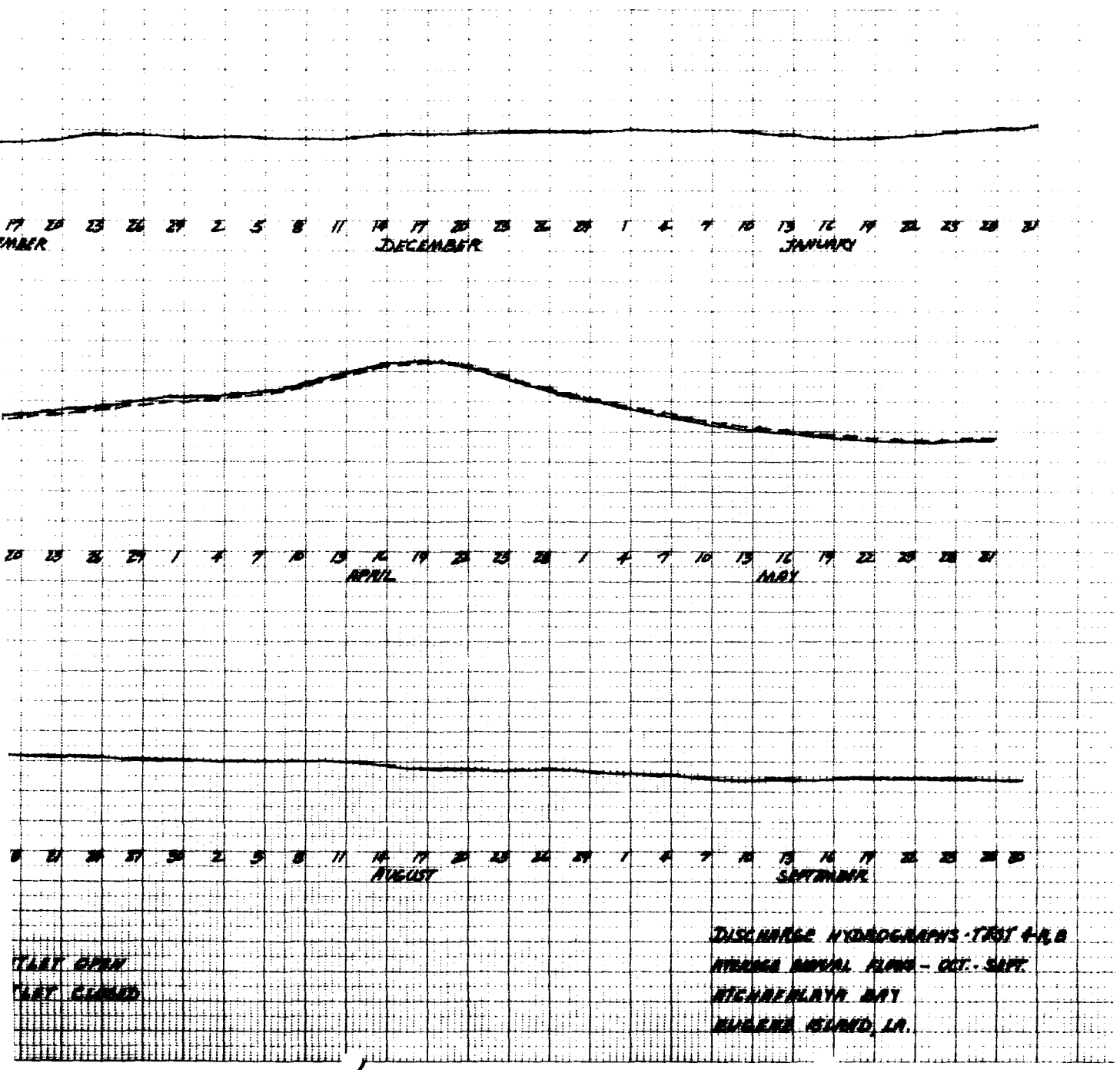

DECEMBER
JANUARY
APRIL
MAY
AUGUST
SEPTEMBER
DISCHARGE HYDROGRAPHS - TEST 4-A, B
AVERAGE ANNUAL FLOWS - OCT. - SEPT.
RICHARDSON BAY
MARIN ISLAND, LA.

PLATE 160

In accordance with letter from DAEN RDC, DAEN ASI dated 22 July 1977, Subject: Facsimile Catalog Cards for Laboratory Technical Publications, a facsimile catalog card in Library of Congress MARC format is reproduced below.

Foster, James E

Effects of closing Wax Lake outlet and construction management unit and channel training levees in the Atchafalaya River Basin / by James E. Foster, James V. Allen. Vicksburg, Miss. : U. S. Waterways Experiment Station ; Springfield, Va. : available from National Technical Information Service, 1980.

5, [8] p., [160] leaves of plates : ill. ; 36 cm. (Mississippi basin model report - U. S. Army Engineer Waterways Experiment Station ; 31-8)

Prepared for U. S. Army Engineer District, New Orleans, New Orleans, La., under LMNED-79-46.

1. Atchafalaya River. 2. Floodways. 3. Hydraulic models. 4. Levees. I. Allen, James V., joint author. II. United States. Army. Corps of Engineers. New Orleans District. III. Series: United States. Waterways Experiment Station, Vicksburg, Miss. Mississippi basin model report ; 31-8.
TA7.W34b no.31-8

Key to Numbering of MRM Reports*

Test of Report or Test	Office for Which Conducted									
	General	LMVD	MRD	ORD	SWD	UMVD	Outside Agencies	Reserved for Future	Division	Basin-wide
General Reports	1-series									
MRM Board Meetings	2-series									
Papers in Technical Journals	3-series									
Reserved for Future	4-series									
Reserved for Future	5-series									
Reserved for Future	6-series									
Reserved for Future	7-series									
Reserved for Future	8-series									
Reserved for Future	9-series									
Verification Studies	10-series	11-	12-	13-	14-	15-	16-	17-	18-	19-
Reservoir-Operation Studies	20-series	21-	22-	23-	24-	25-	26-	27-	28-	29-
Levee Studies	30-series	31-	32-	33-	34-	35-	36-	37-	38-	39-
Flood-Routing Studies	40-series	41-	42-	43-	44-	45-	46-	47-	48-	49-
Changes in Regimen	50-series	51-	52-	53-	54-	55-	56-	57-	58-	59-
Reserved for Future	60-series									
Reserved for Future	70-series									
Miscellaneous Studies	80-series	81-	82-	83-	84-	85-	86-	87-	88-	89-
Combined Purpose Studies	90-series	91-	92-	93-	94-	95-	96-	97-	98-	99-

* First digit indicates type of report or test; second digit (for 10-series and above) indicates office for which performed. Numbers following dashes indicate chronological order in respective series.

Key to Numbering of MBM Reports*

or Test	Office for Which Conducted									
	General	LMVD	MRD	ORD	SWD	UMVD	Outside Agencies	Reserved for Future	Division	Basin-wide
	1-series									
s	2-series									
al Journals	3-series									
re	4-series									
re	5-series									
re	6-series									
re	7-series									
re	8-series									
re	9-series									
ies	10-series	11-	12-	13-	14-	15-	16-	17-	18-	19-
on Studies	20-series	21-	22-	23-	24-	25-	26-	27-	28-	29-
	30-series	31-	32-	33-	34-	35-	36-	37-	38-	39-
lies	40-series	41-	42-	43-	44-	45-	46-	47-	48-	49-
n	50-series	51-	52-	53-	54-	55-	56-	57-	58-	59-
re	60-series									
re	70-series									
lies	80-series	81-	82-	83-	84-	85-	86-	87-	88-	89-
Studies	90-series	91-	92-	93-	94-	95-	96-	97-	98-	99-

dicates type of report or test; second digit (for 10-series and above) indicates office med. Numbers following dashes indicate chronological order in respective series.

END

DATE
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