REPORT ON
THE CONNECTICUT RIVER

SUBMITTED UNDER THE PROVISIONS OF
HOUSE DOCUMENT NO. 308
69 TH CONGRESS, 1 ST SESSION

I. L. to 308/2-100.21 34

APPENDIX - II

21

Appendix [illegible]

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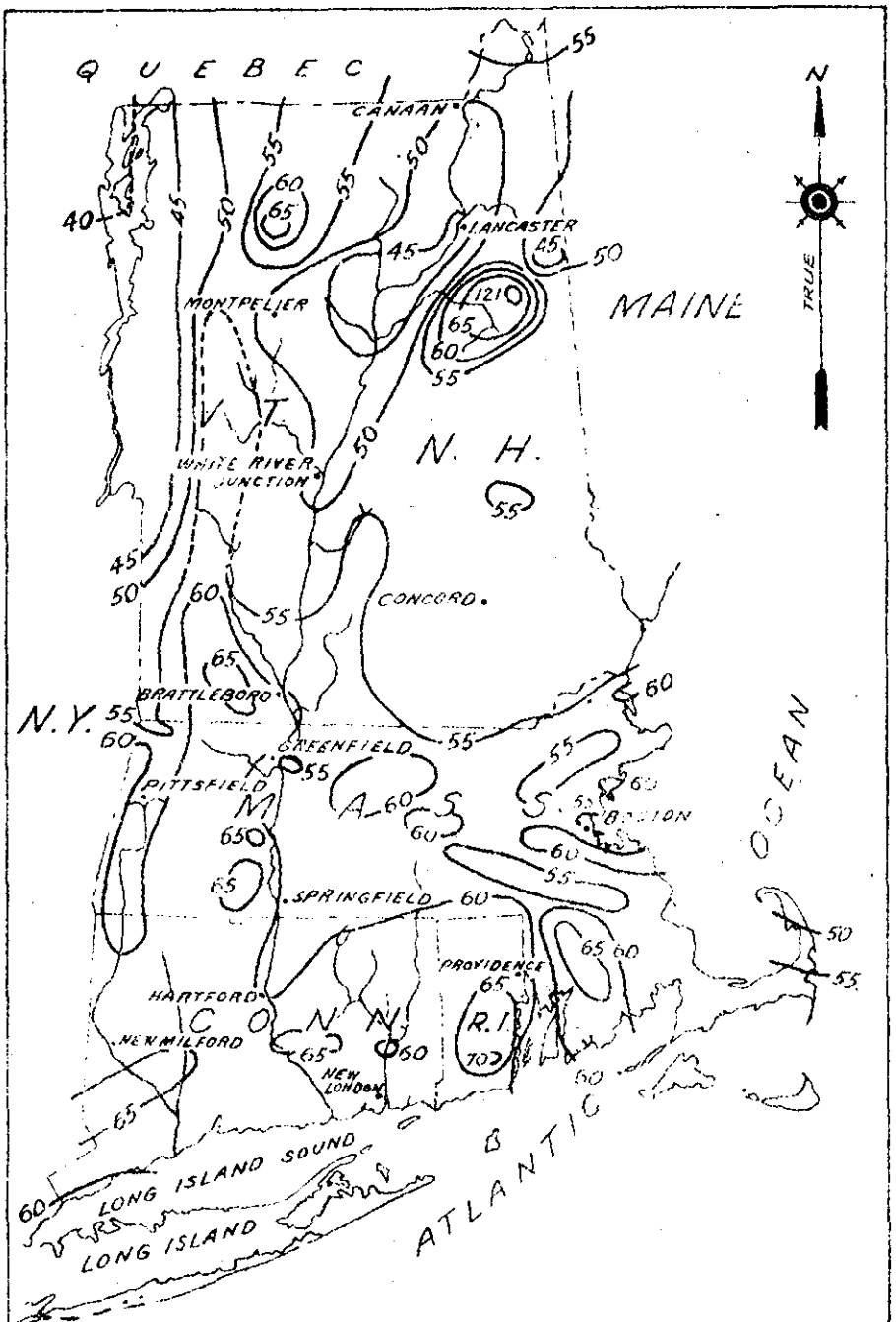
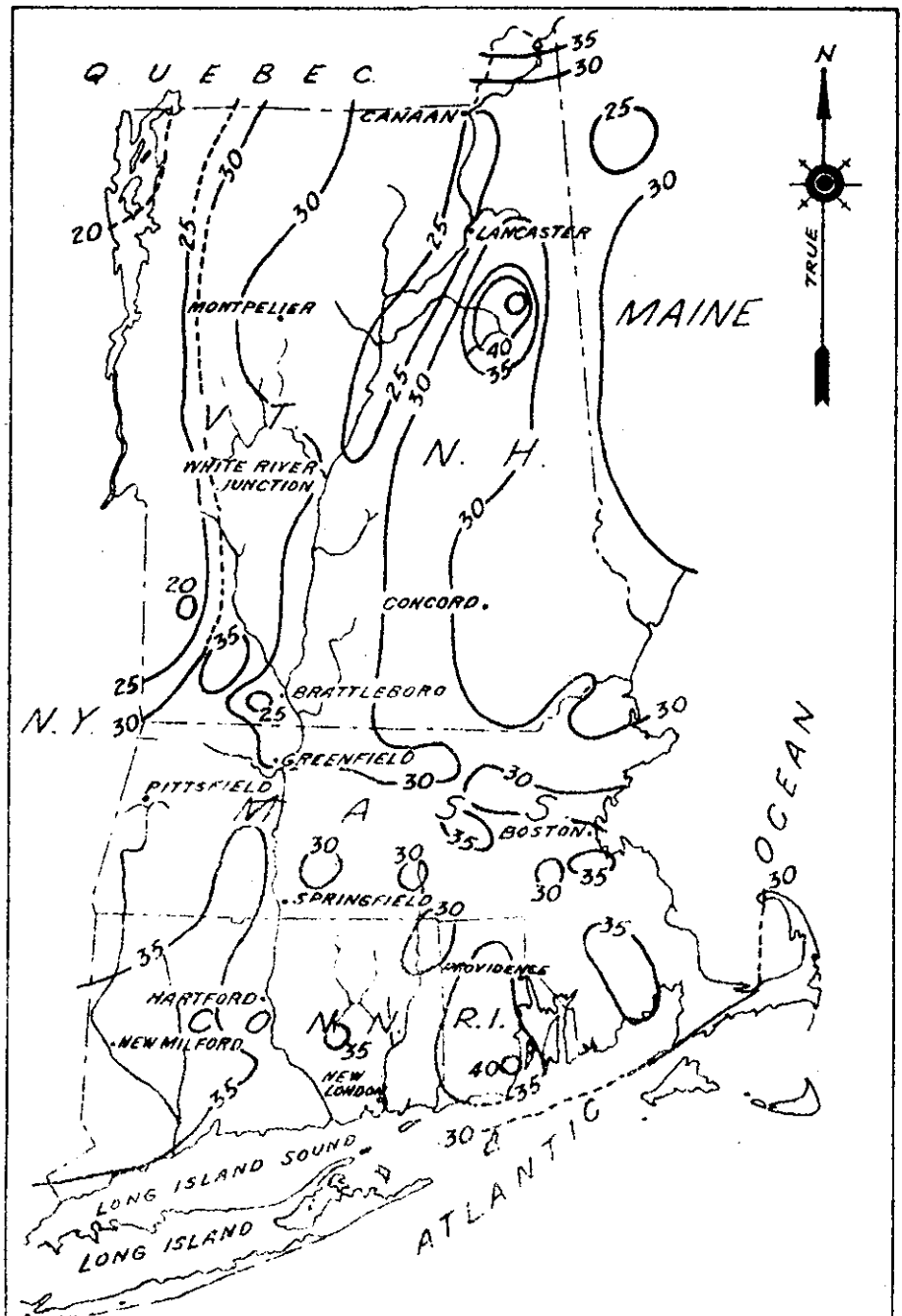
#21



ABSOLUTE MAXIMUM ANNUAL RAINFALL
1881-1925
REPRODUCED FROM "RAINFALL OF NEW ENGLAND"
J. HENRY WEBER, CLARK UNIVERSITY.
JOURNAL OF THE NEW ENGLAND WATER WORKS
ASSOCIATION, VOL. 42.

Figure 1



ABSOLUTE MINIMUM ANNUAL RAINFALL.
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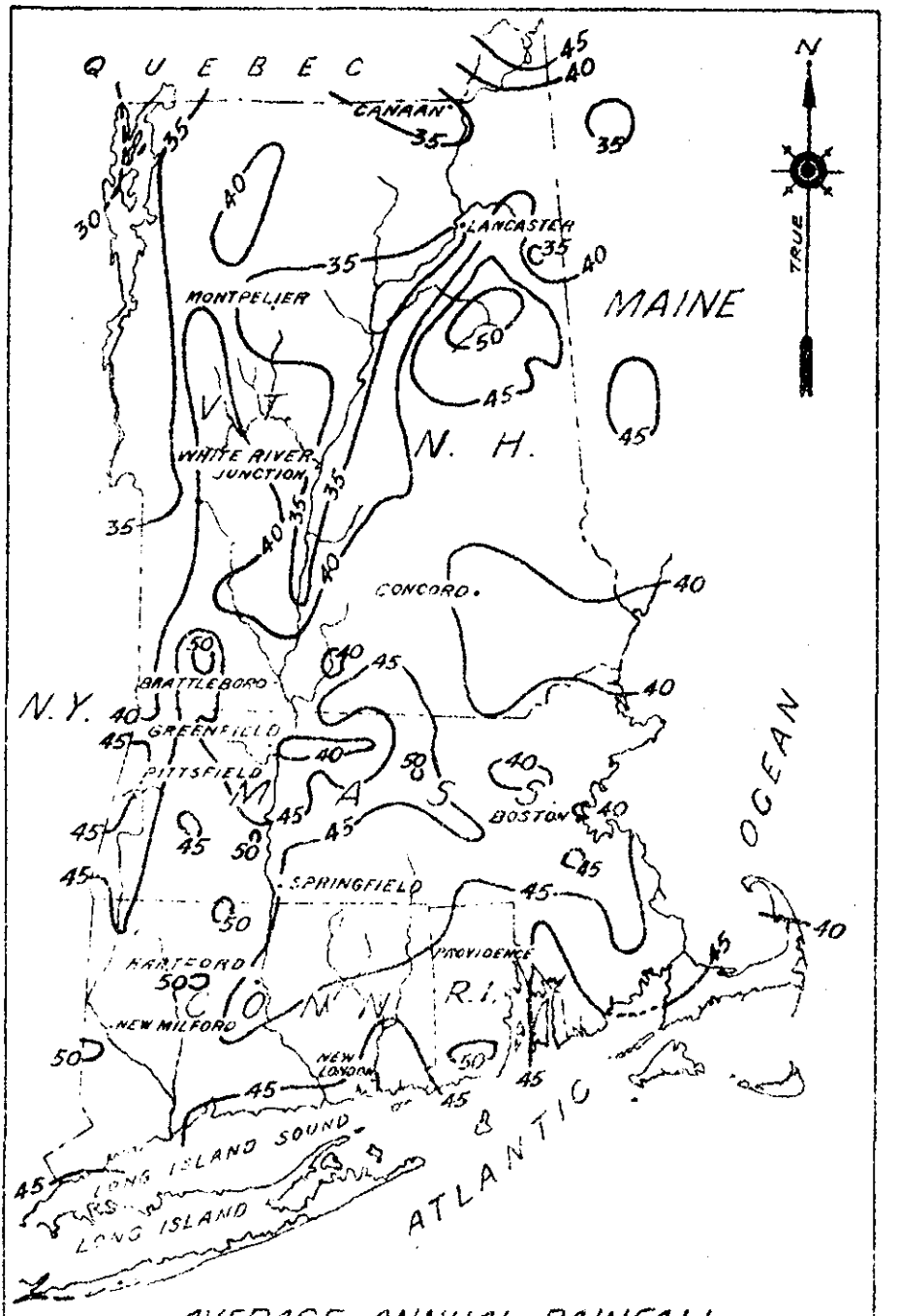
Figure 2



AVERAGE ANNUAL RAINFALL
1881-1925
REPRODUCED FROM "RAINFALL OF NEW ENGLAND"
J. HENRY WEBER, CLARK UNIVERSITY.
JOURNAL OF THE NEW ENGLAND WATER WORKS
ASSOCIATION, VOL. 42.

Figure 3

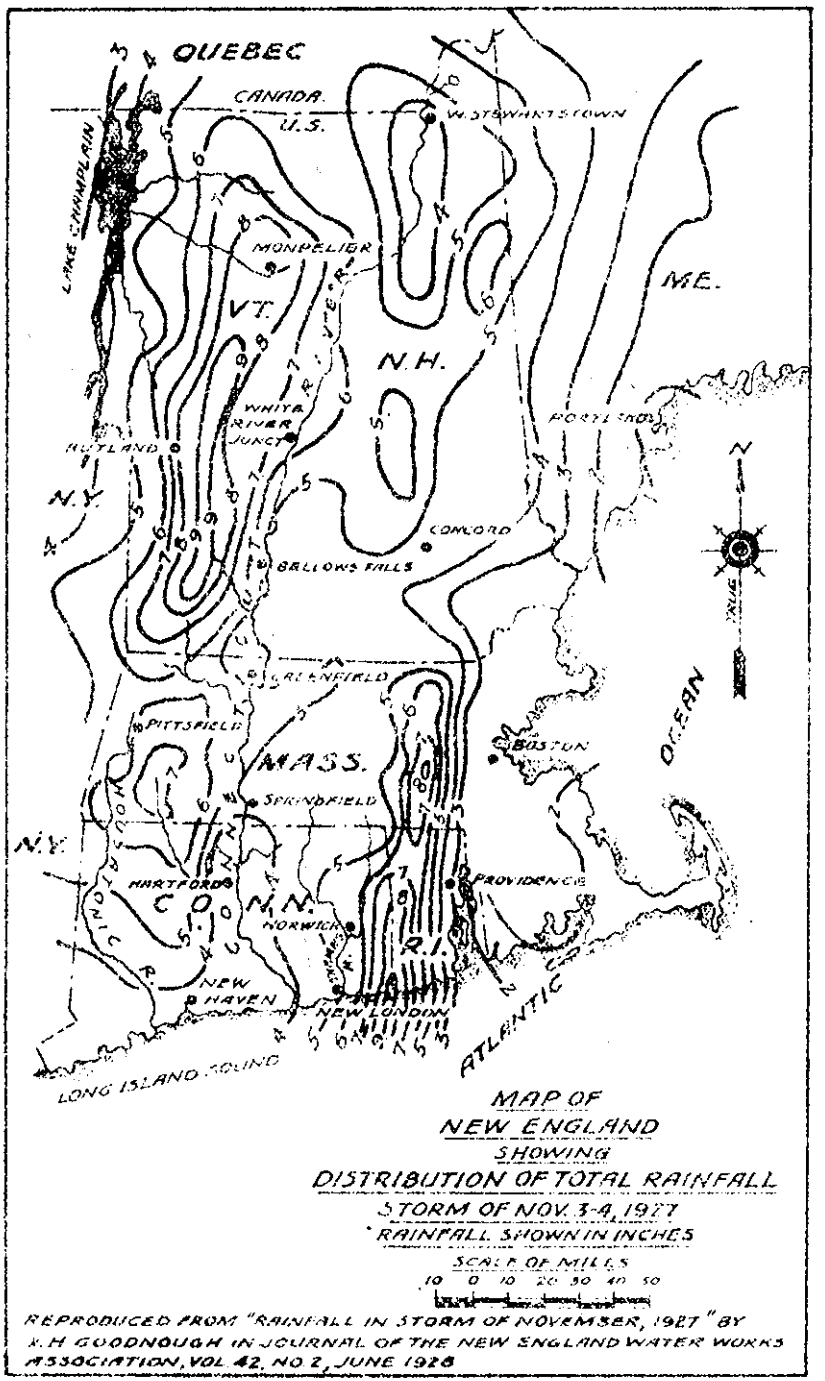
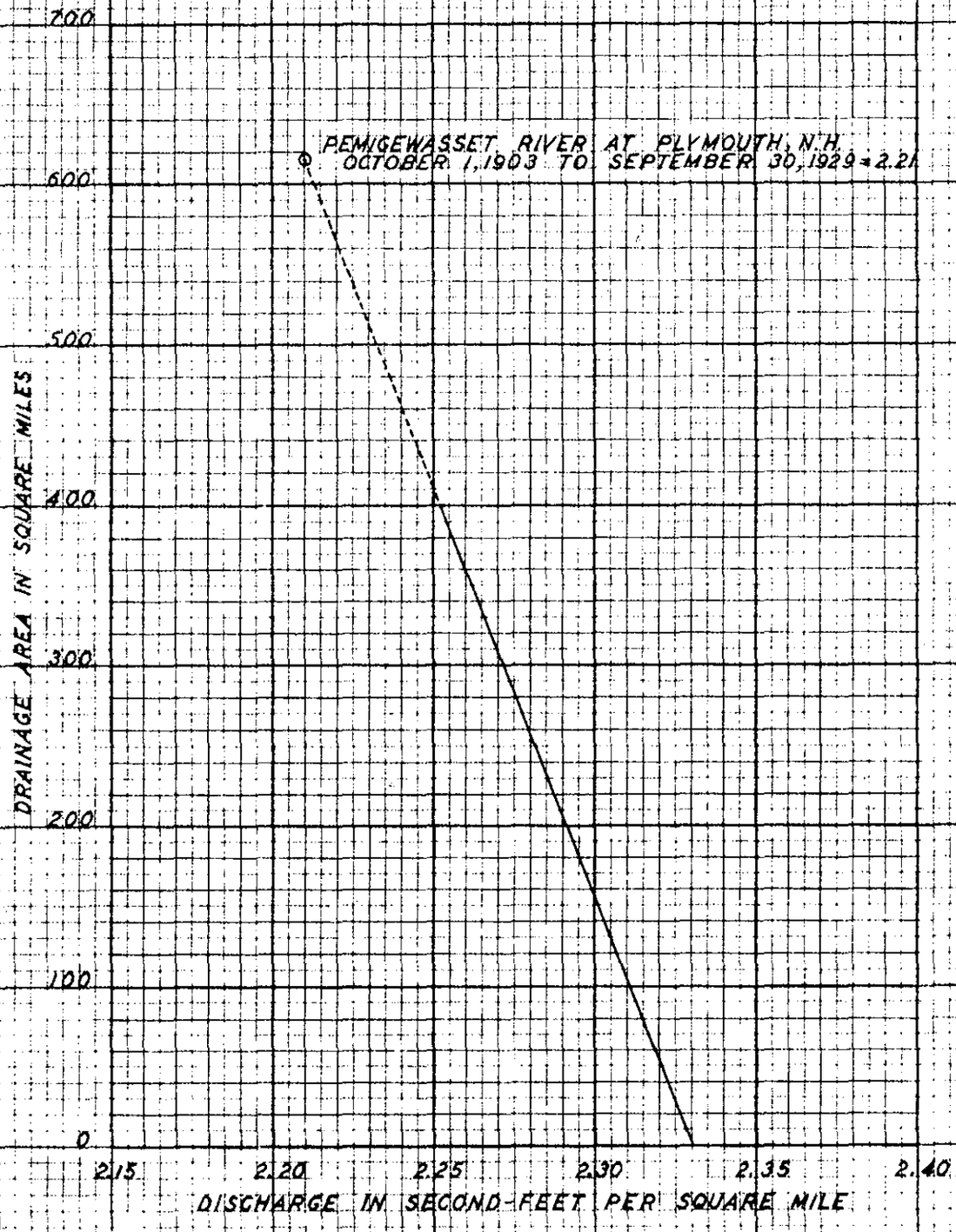

QUEBEC
CANADA
U.S.
W. STEWARTSTOWN
LAKE CHAMPLAIN
MONPELIER
VT.
N.H.
ME.
WHITE RIVER JUNCT.
RUTLAND
PORTLAND
N.Y.
CONCORD
BELLOWS FALLS
GREENFIELD
PITTSFIELD
MASS.
BOSTON
OCEAN
SPRINGFIELD
N.Y.
HARTFORD
PROVIDENCE
CONN.
NORWICH
R.I.
NEW HAVEN
NEW LONDON
ATLANTIC
LONG ISLAND SOUND
N
MAP OF
NEW ENGLAND
SHOWING
DISTRIBUTION OF TOTAL RAINFALL
STORM OF NOV. 3-4, 1927
RAINFALL SHOWN IN INCHES
SCALE OF MILES
10 0 10 20 30 40 50
REPRODUCED FROM "RAINFALL IN STORM OF NOVEMBER, 1927" BY
X.H GOODNOUGH IN JOURNAL OF THE NEW ENGLAND WATER WORKS
ASSOCIATION, VOL 42, NO 2, JUNE 1928

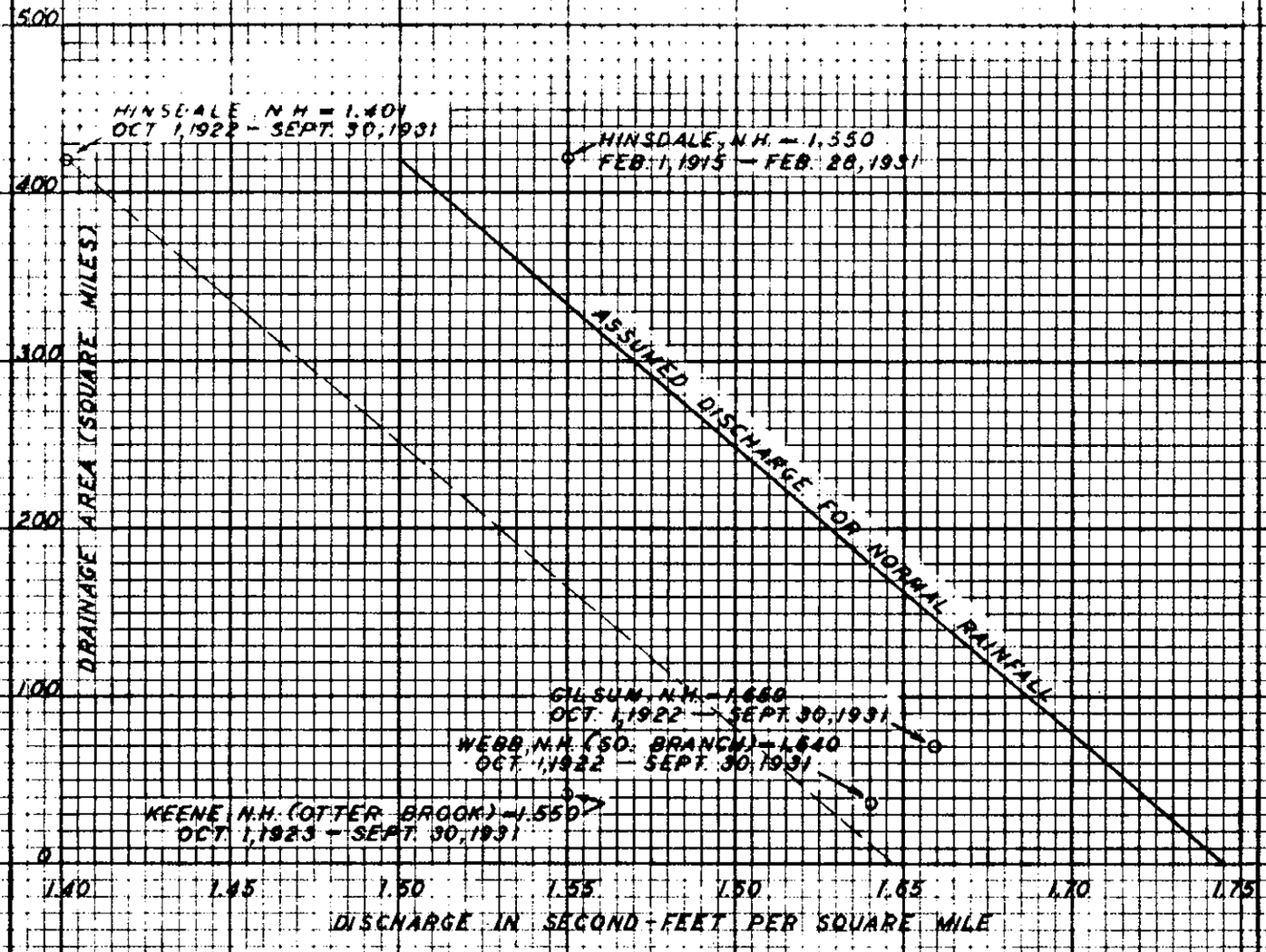
Figure 4



AMMONOOSUC RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

FIGURE 5

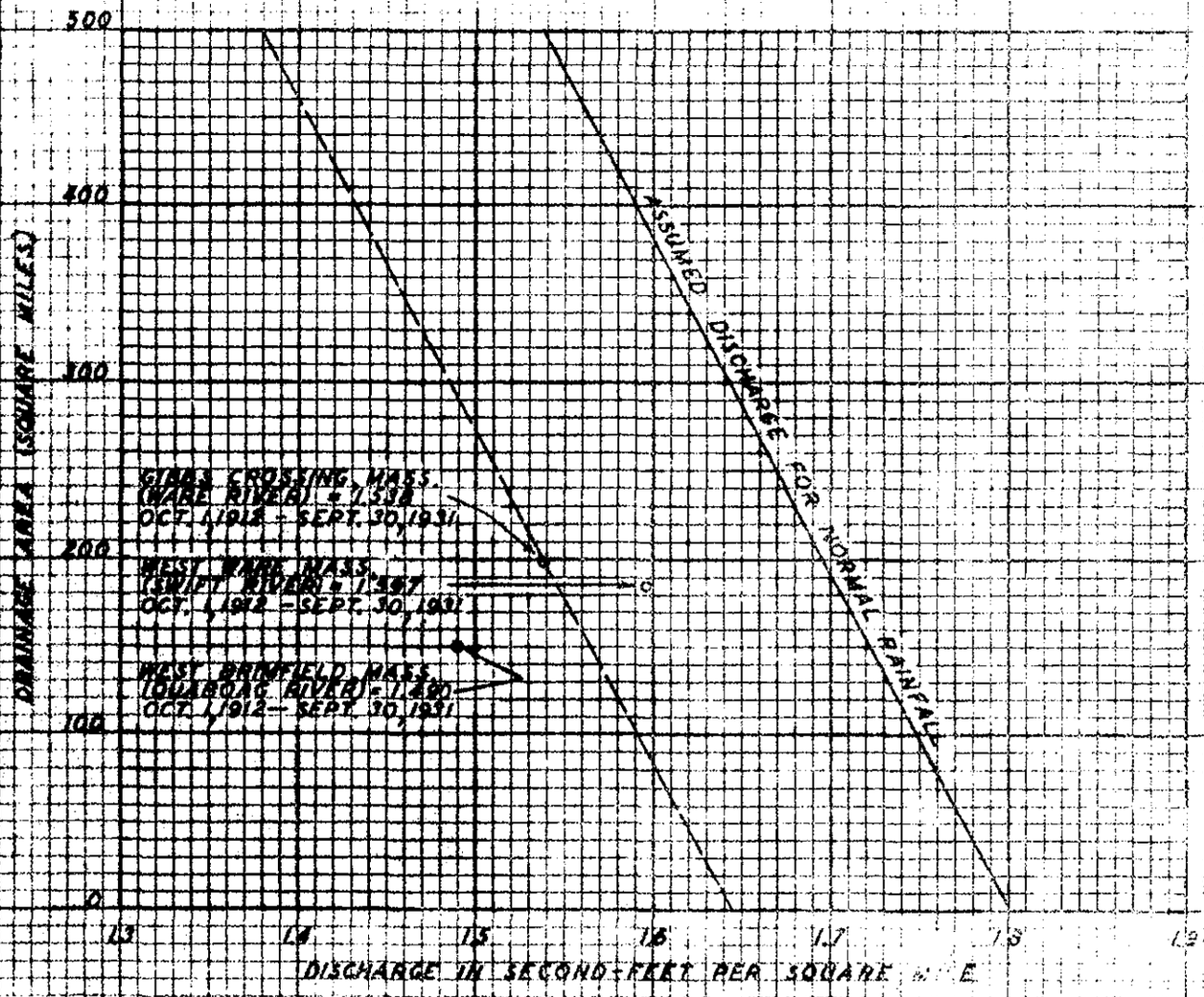
STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	OCT. 1, 1922 TO SEPT. 30, 1931
KEENE, N.H.	39	37.85	36.99
VERNON, VT.	39	41.78	37.65
AVERAGE		39.81	37.32
			CALENDAR YEARS INCLUSIVE
			1915 – 1931
KEENE, N.H.			38.91
VERNON, VT.			37.49
AVERAGE			38.20



ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

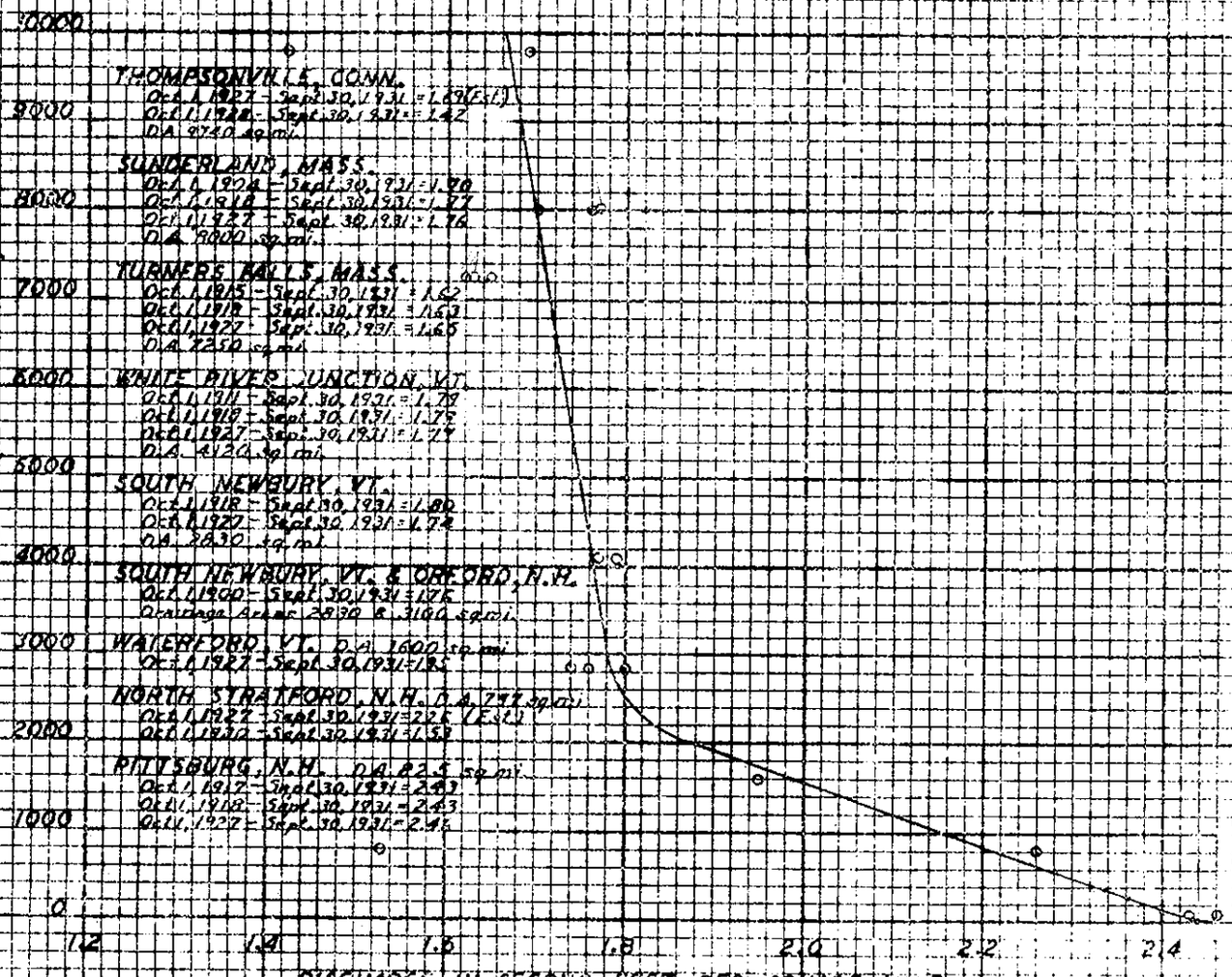
FIGURE 2

STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	OCT. 1, 1912 TO SEPT. 30, 1931
SPRINGFIELD, MASS.	83	43.79	39.02
WORCESTER, MASS.	83	38.42	37.97



CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

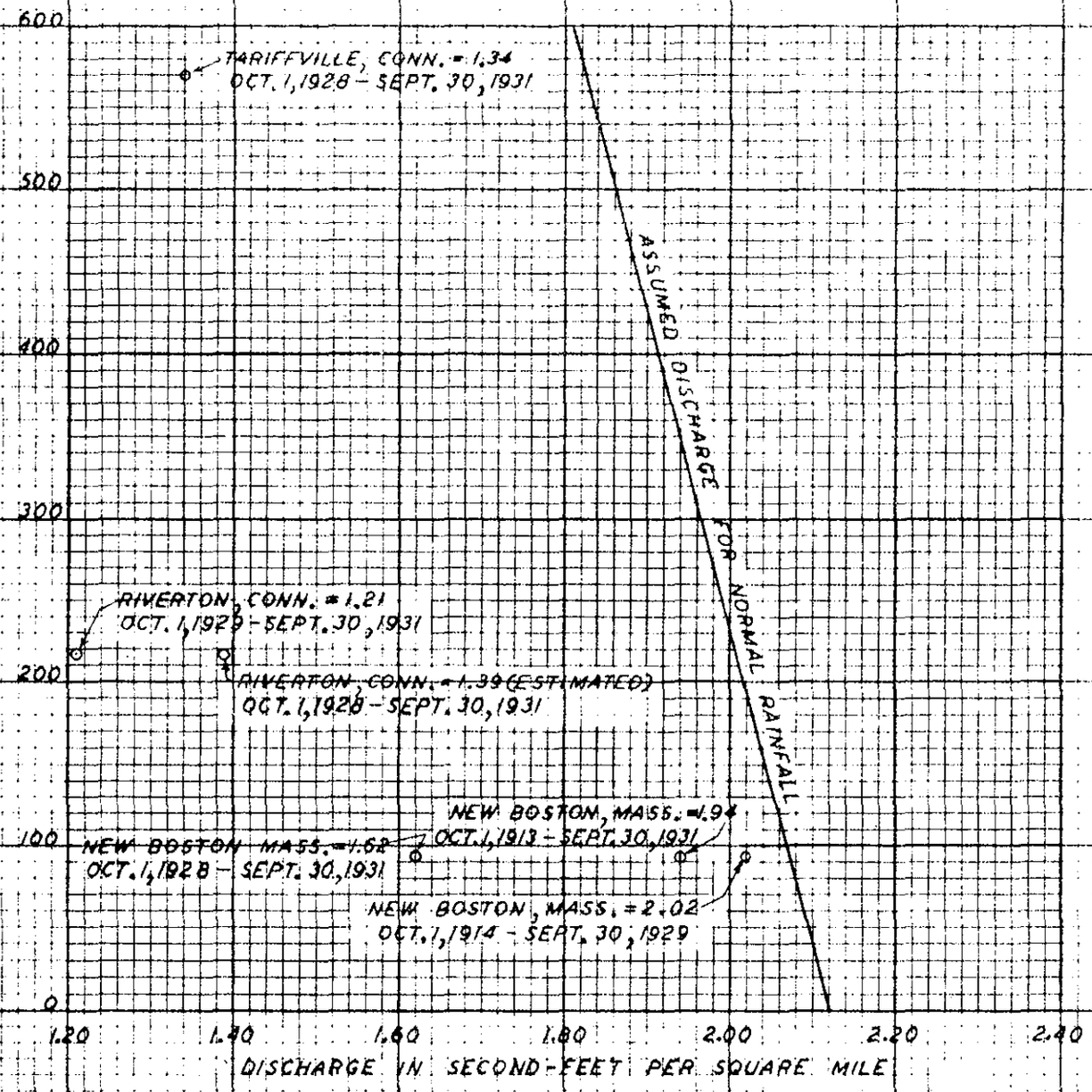
STATION	YEARS OF RECORD	NORMAL	PRECIPITATION IN INCHES OCT. 1, 1918 TO SEPT. 30, 1931	OCT. 1, 1927 TO SEPT. 30, 1931	CALENDAR YEARS 1907-1931 INCLUSIVE
BLOOMFIELD, VT.	26	38.87	39.08	39.02	38.27
ST. JOHNSBURY, VT.	38	34.87	33.97	35.26	34.54
HANOVER, N.H.	97	35.90	35.92	34.71	34.84
KEENE, N.H.	39	37.95	38.58	38.40	37.29
TURNERS FALLS, MASS.	35	38.87	37.99	40.22	38.74
SPRINGFIELD, MASS.	83	43.79	39.41	42.15	39.03
HARTFORD, CONN.	70	44.90	41.47	39.86	40.86
AVERAGE		39.71	38.06	38.32	37.65



CONNECTICUT RIVER
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

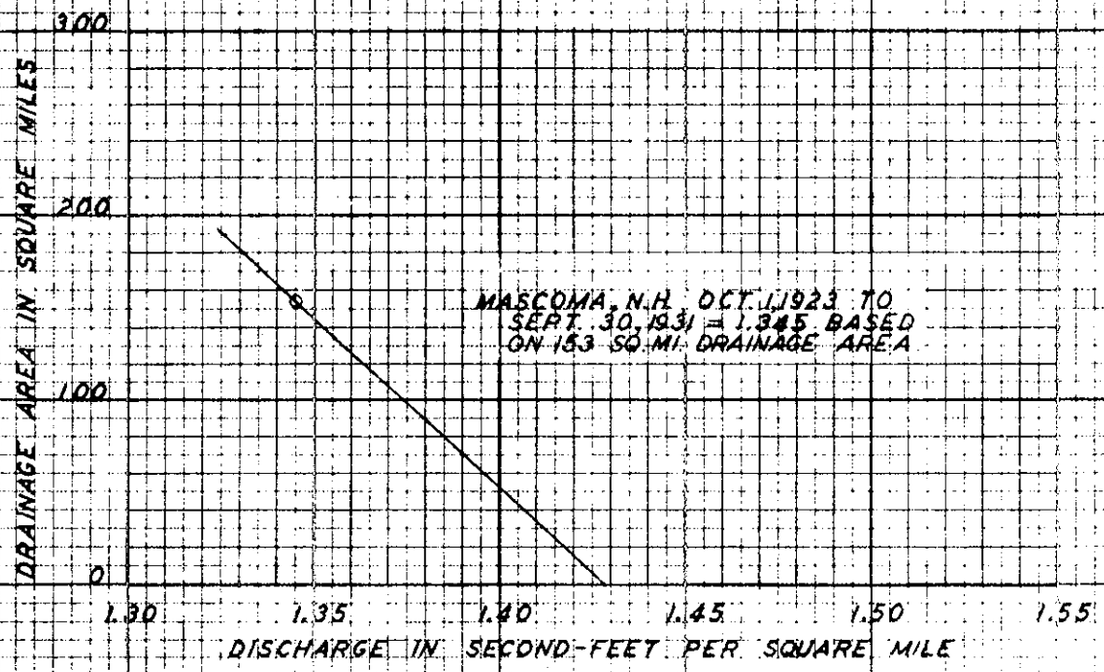
FIGURE 6

STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	OCT. 1, 1928 TO SEPT. 30, 1931
SPRINGFIELD, MASS.	83	43.79	37.74
CREAM HILL, CONN.	33	46.52	40.10
AVERAGE		45.15	38.92
			CALENDAR YEARS INCLUSIVE
			1915 – 1929
SPRINGFIELD, MASS.			40.57
CREAM HILL, CONN.			45.68
AVERAGE			43.12



FARMINGTON RIVER
MASSACHUSETTS – CONNECTICUT
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	OCTOBER 1, 1923 TO SEPTEMBER 30, 1931
HANOVER, N.H.	91	35.90	35.35
WOODSTOCK, VT.	64	38.20	40.20
AVERAGE		37.05	37.77

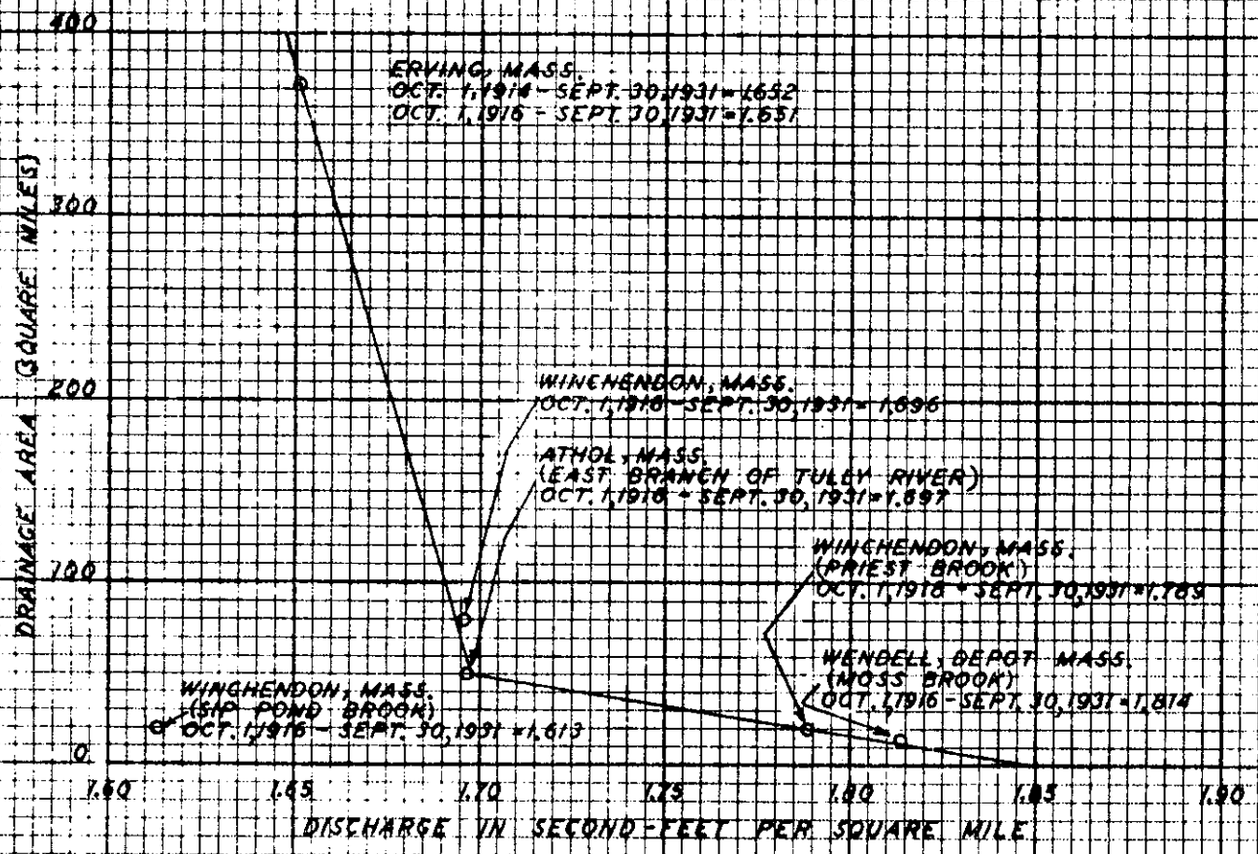


MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

FIGURE 10

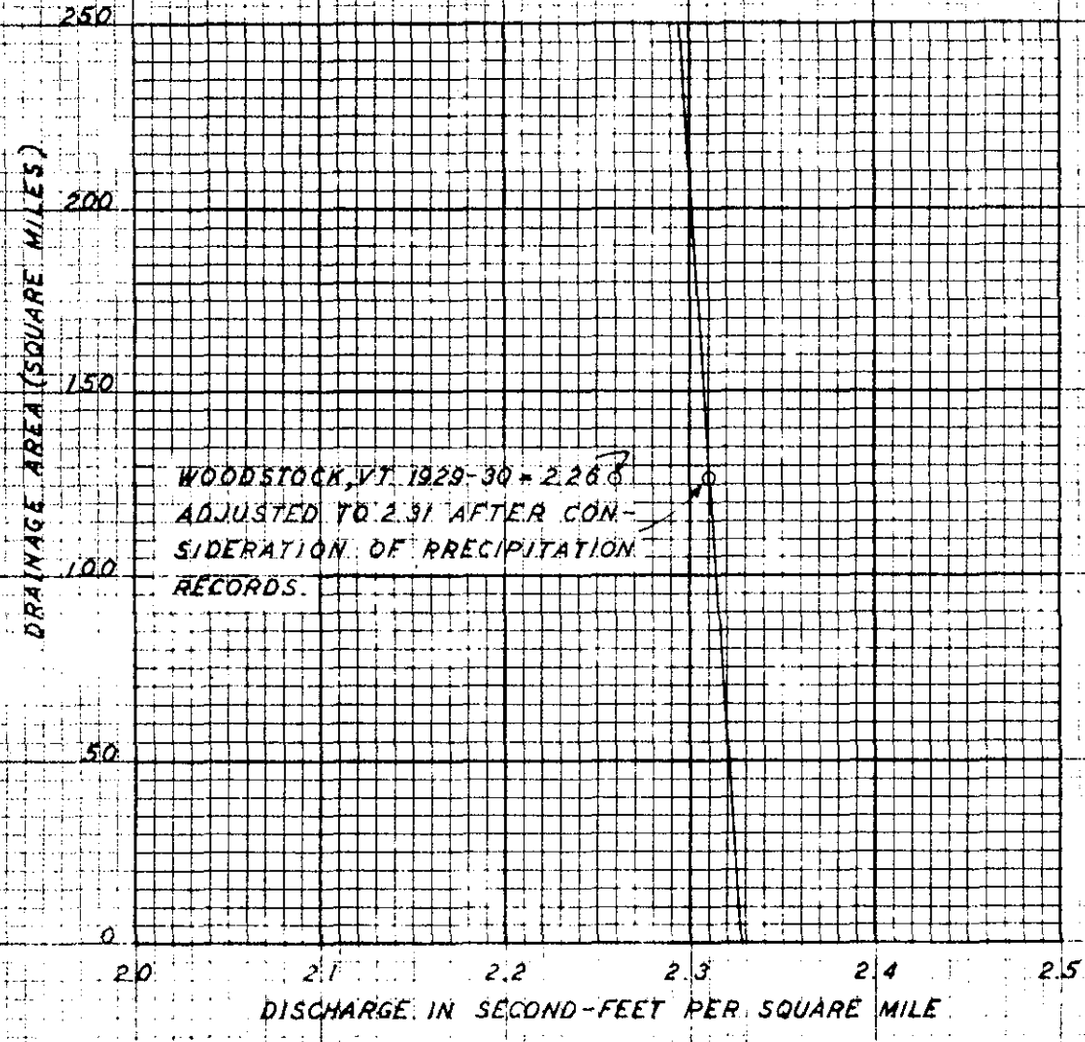
STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	OCT. 1, 1916 TO SEPT. 30, 1931
KEENE, N.H.	39	37.85	38.40
TURNERS FALLS, MASS.	36	38.27	37.93
AVERAGE		38.06	38.16

	CALENDAR YEARS INCLUSIVE 1915 – 1931
KEENE, N.H.	38.91
TURNERS FALLS, MASS.	38.94
AVERAGE	38.92



MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

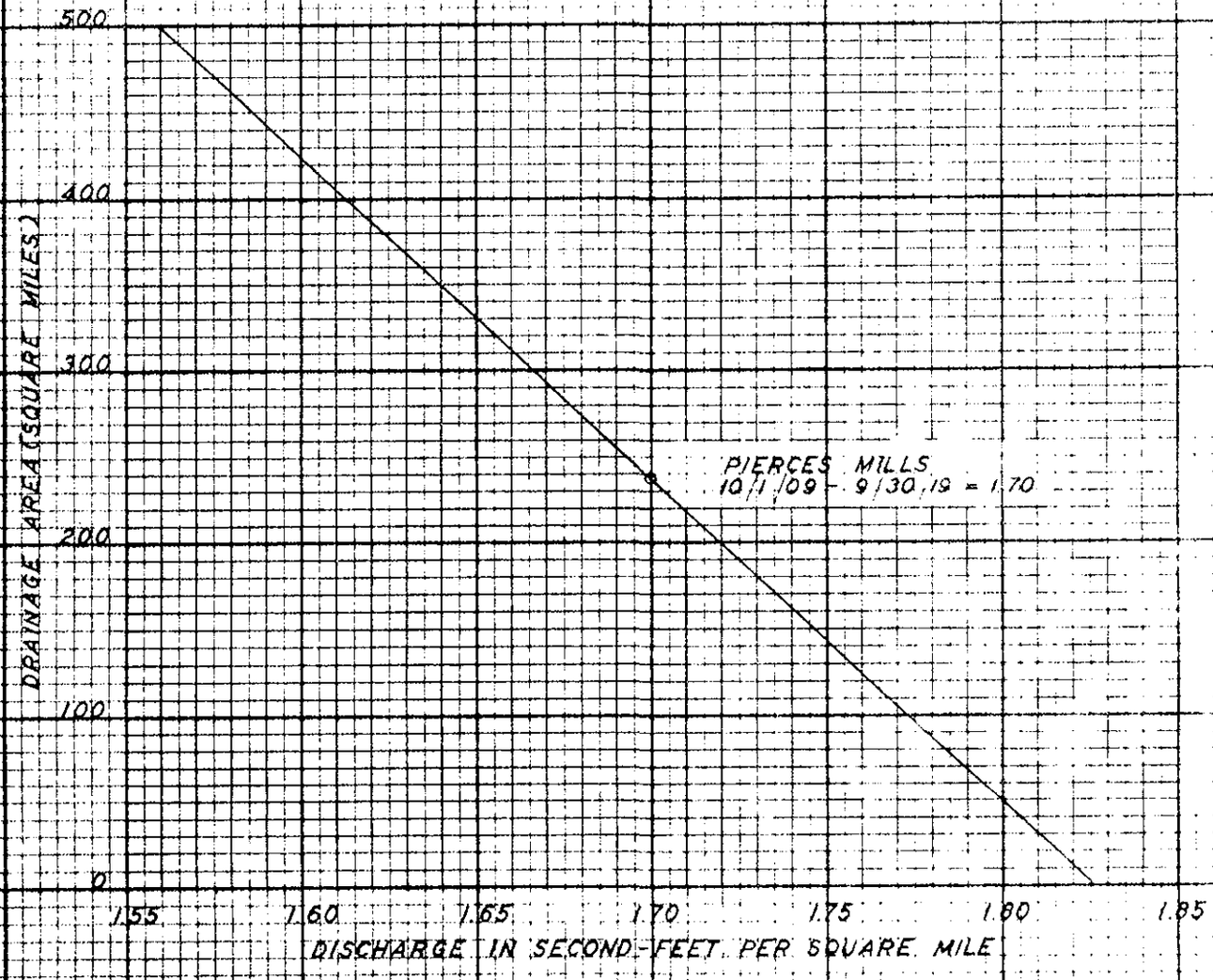
Figure 11



OTTAUQUECHEE RIVER, VERMONT
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

FIGURE 12

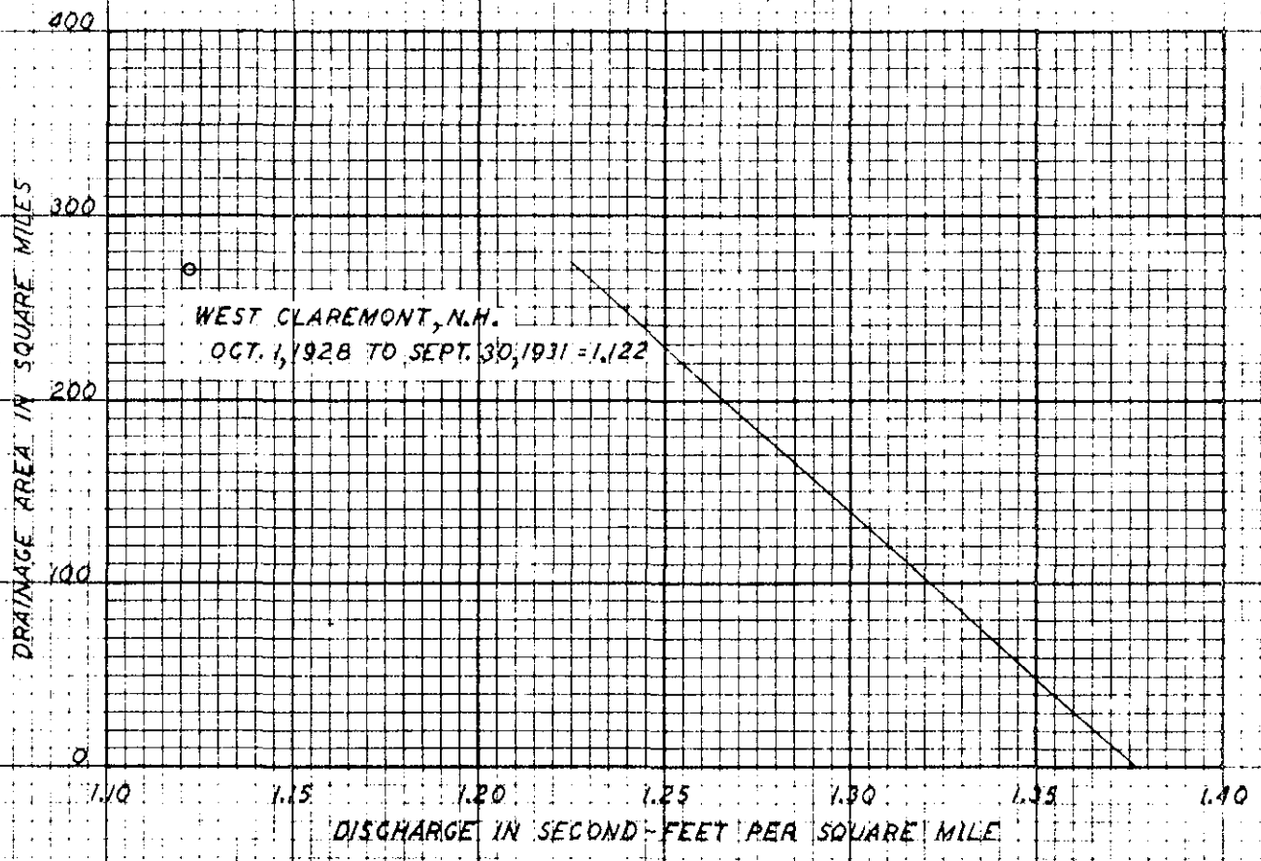
STATION	YEARS OF RECORD TO 1931 INCLUSIVE	MEAN YEARLY PRECIPITATION IN INCHES	
		NORMAL	OCT. 1, 1909 TO SEPT. 30, 1919
ST. JOHNSBURY, VT.	38	34.87	35.21



PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

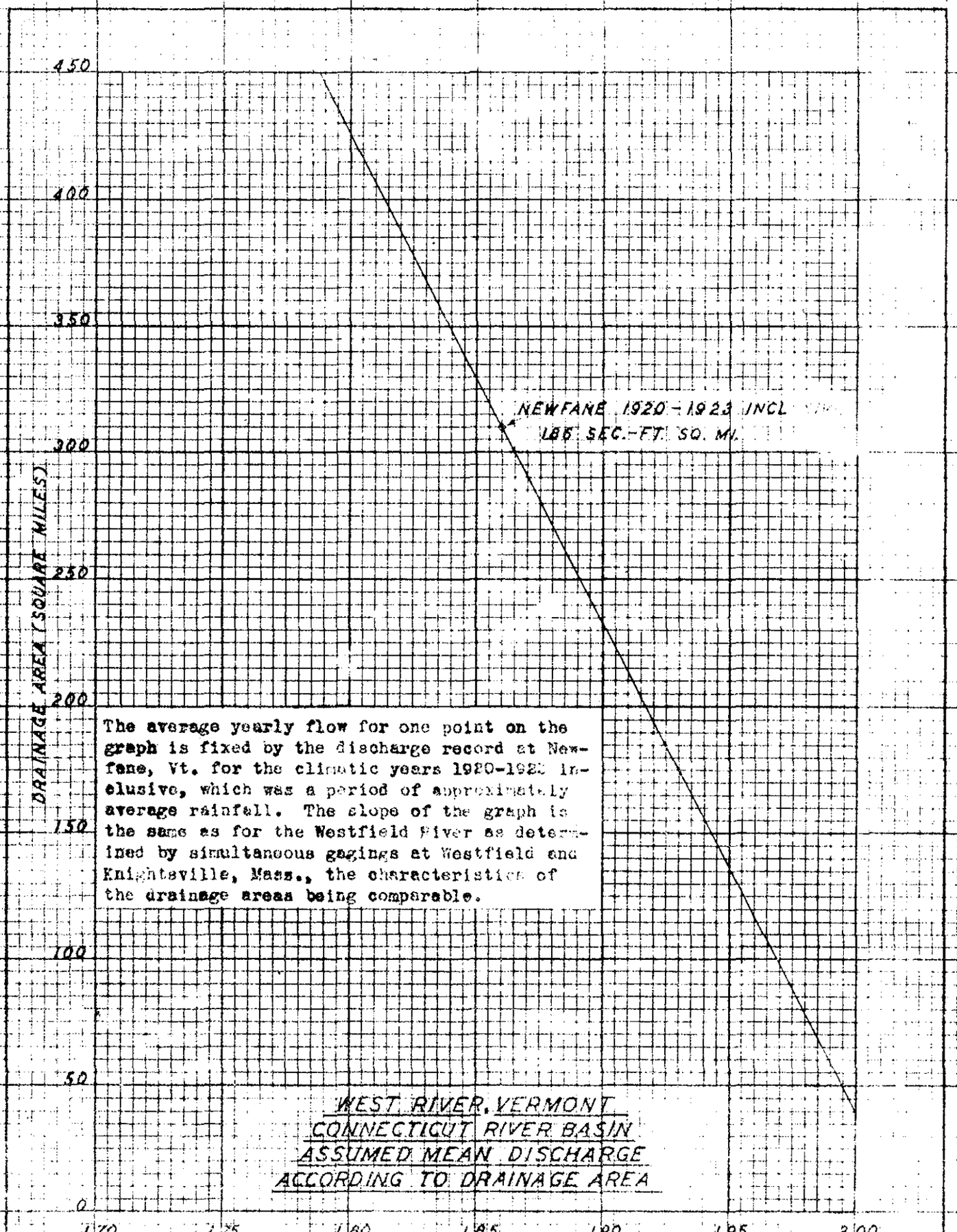
Figure 1

NOTE: THE LOCATION OF THE GRAPH WAS DETERMINED BY COMPARING THE RUN-OFF OF THE SUGAR RIVER AT WEST CLAREMONT WITH THE RUN-OFF OF THE MASCOMA RIVER AT MASCOMA FROM OCT. 1, 1928 TO SEPT. 30, 1931



SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

FIGURE 14

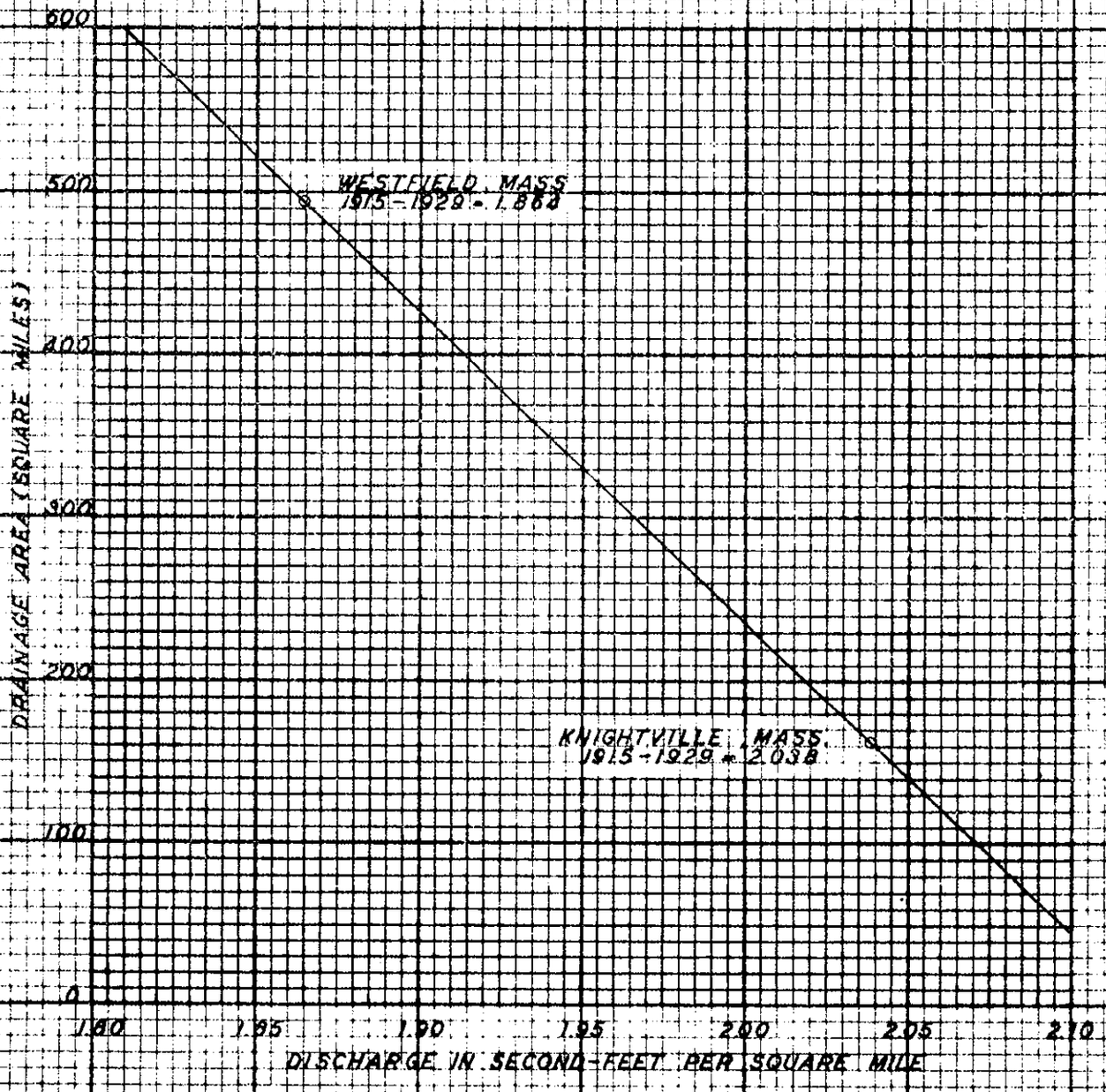


The average yearly flow for one point on the graph is fixed by the discharge record at Newfane, Vt. for the climatic years 1920-1923 inclusive, which was a period of approximately average rainfall. The slope of the graph is the same as for the Westfield River as determined by simultaneous gagings at Westfield and Knightsville, Mass., the characteristics of the drainage areas being comparable.

WEST RIVER, VERMONT
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

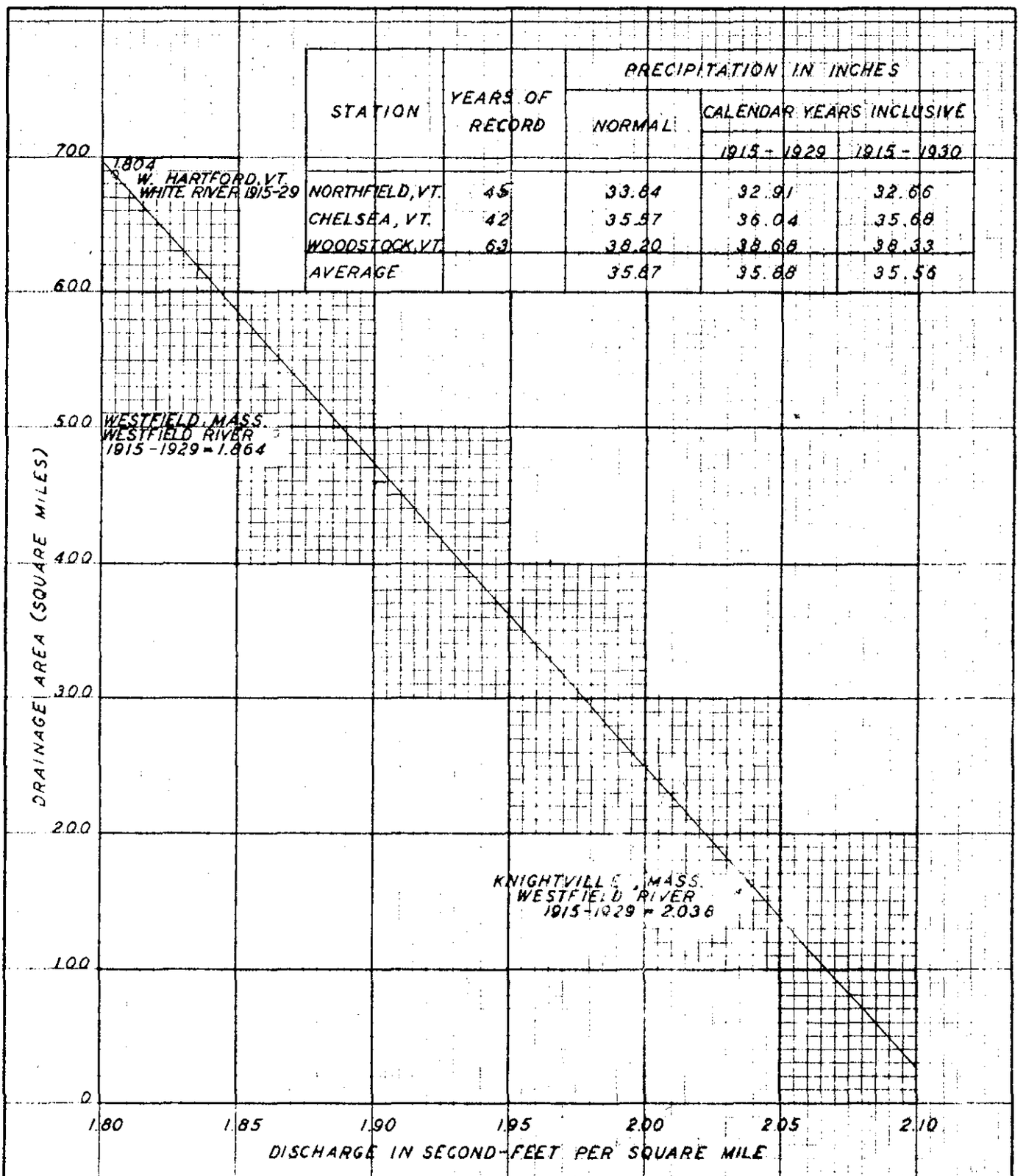
Figure 15

STATION	YEARS OF RECORD	PRECIPITATION IN INCHES	
		NORMAL	CALENDAR YEARS INCLUSIVE 1915 - 1929
SPRINGFIELD, MASS.	83	43.79	40.57
PITTSFIELD, MASS.	37	41.51	41.59
AVERAGE		42.65	41.08



WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

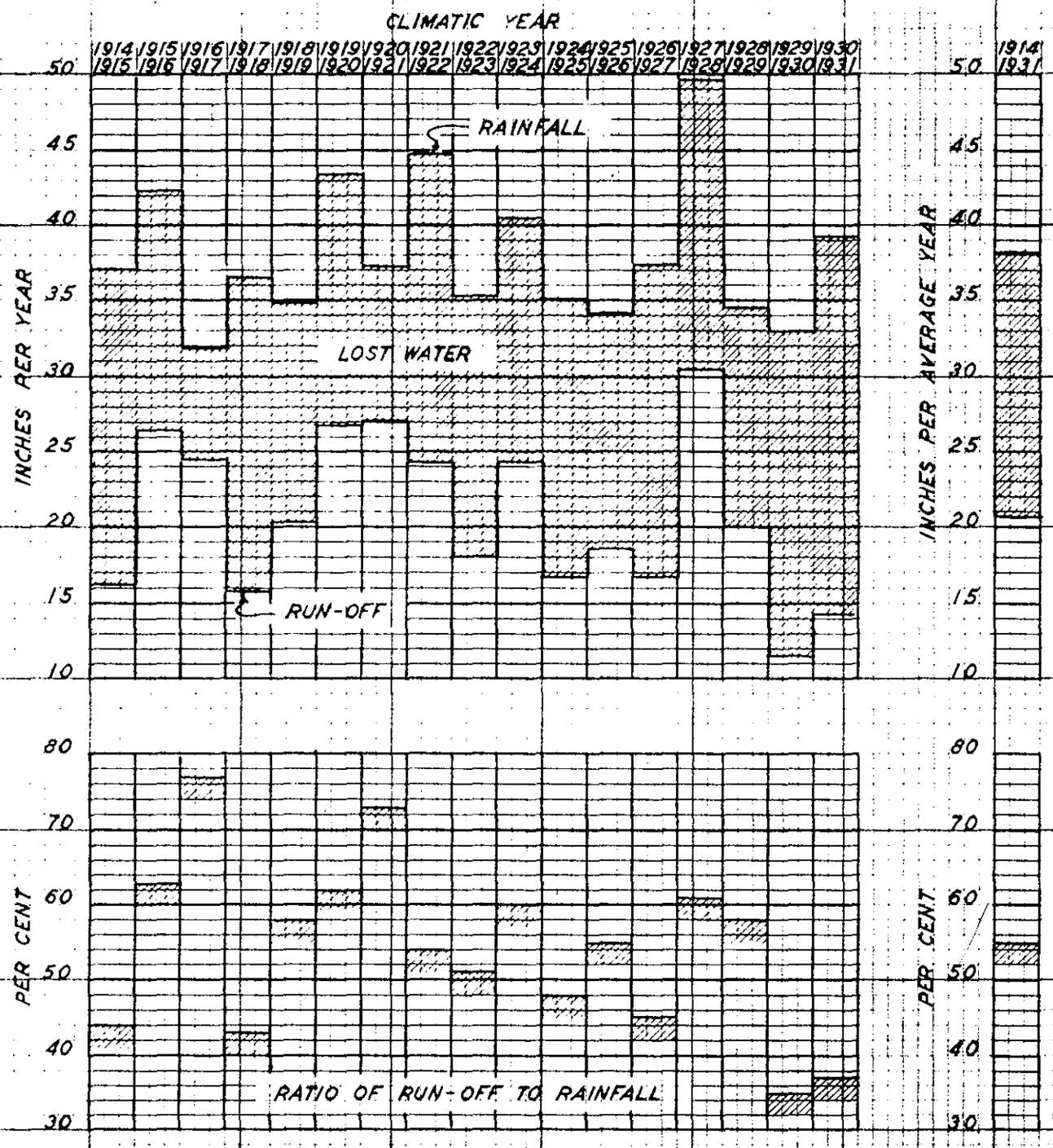
Figure 10



STATION	YEARS OF RECORD	PRECIPITATION IN INCHES		
		NORMAL	CALENDAR YEARS INCLUSIVE	
			1915 - 1929	1915 - 1930
NORTHFIELD, VT.	45	33.84	32.91	32.66
CHELSEA, VT.	42	35.57	36.04	35.68
WOODSTOCK, VT.	63	38.20	38.68	38.33
AVERAGE		35.87	35.88	35.56

WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
ASSUMED MEAN DISCHARGE
ACCORDING TO DRAINAGE AREA

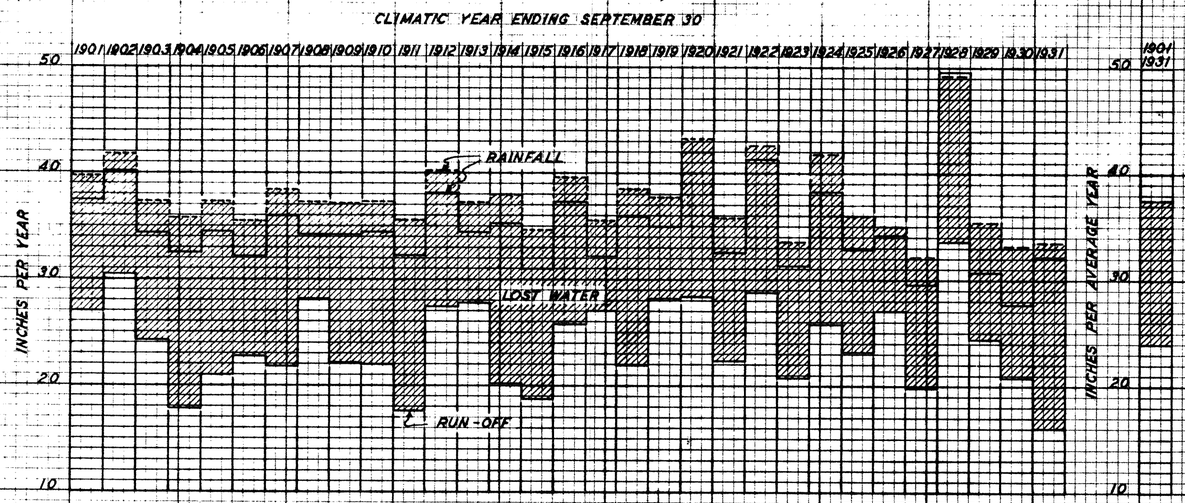
FIGURE 7

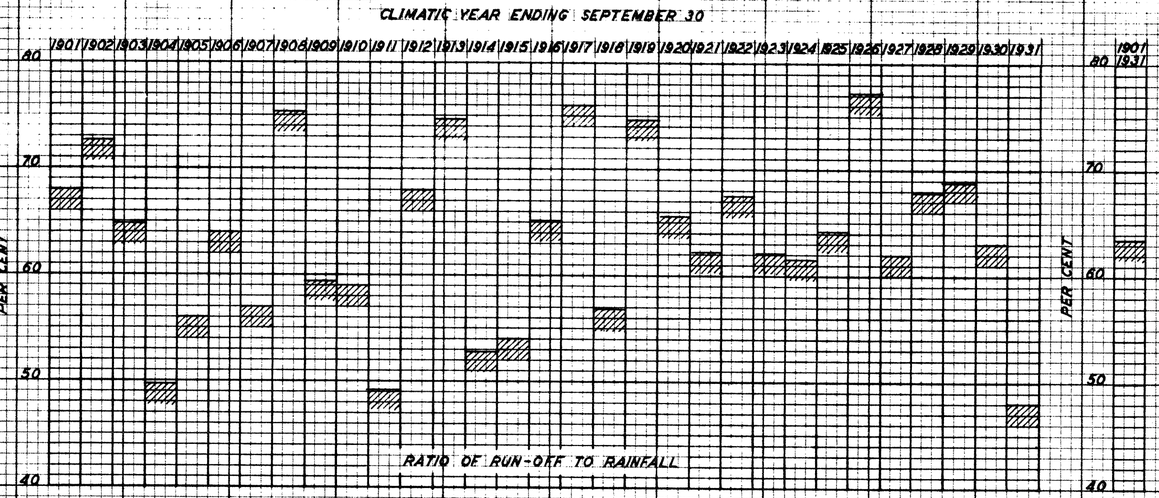


ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
RAINFALL AND RUN-OFF GRAPHS
OCTOBER 1, 1914 TO SEPTEMBER 30, 1931
RAINFALL RECORDS AT KEENE, N.H. AND VERNON, VT.
RUN-OFF RECORD AT HINSDALE
DRAINAGE AREA 420 SQUARE MILES

FIGURE 16

FIGURE 12





——— RAINFALL AS RECORDED AT FOUR STATIONS, ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H. AND CHELSEA, VT.

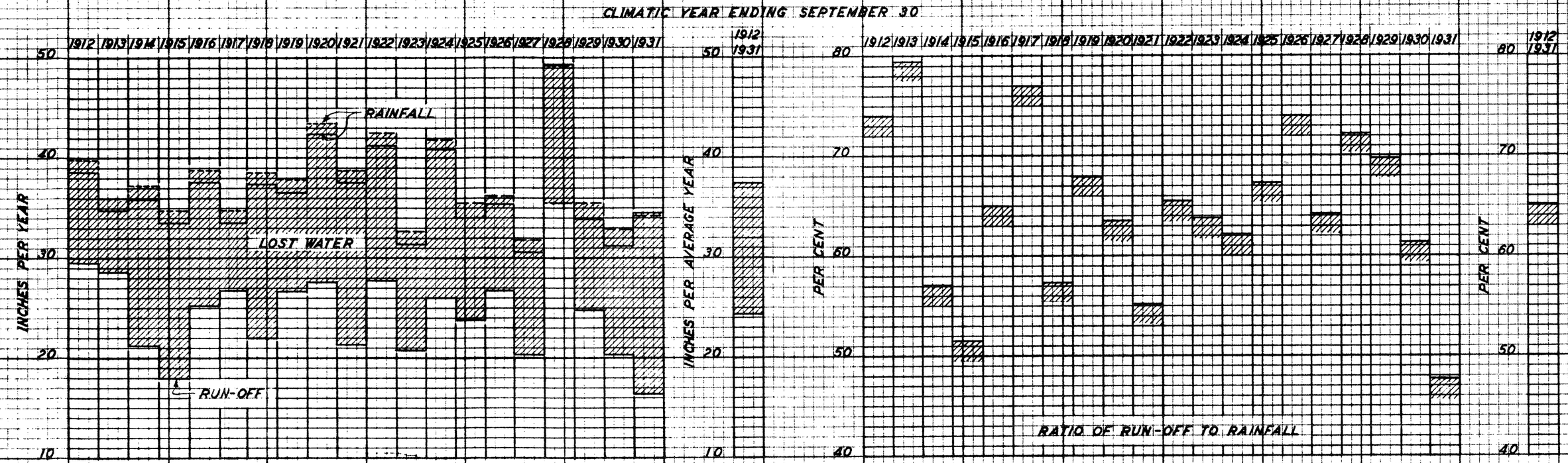
– – – RAINFALL AS RECORDED AT NINE STATIONS, ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., BLOOMFIELD, VT., GLENCLIFF, N.H., PITTSBURG, N.H., BERLIN, N.H. AND GARFIELD, VT.

------ ESTIMATED RAINFALL 1901 TO 1921 INCLUSIVE, BASED ON RECORDS AT FOUR STATIONS ADJUSTED TO SHOW EFFECT OF PROBABLE RAINFALL AT FIVE STATIONS HAD THEY BEEN OPERATING.

——— RUN-OFF AT ORFORD, N.H. AND SOUTH NEWBURY, VT.

CONNECTICUT RIVER
RAINFALL AND RUN-OFF GRAPHS
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
OCTOBER 1, 1900 TO SEPTEMBER 30, 1931

FIGURE 13



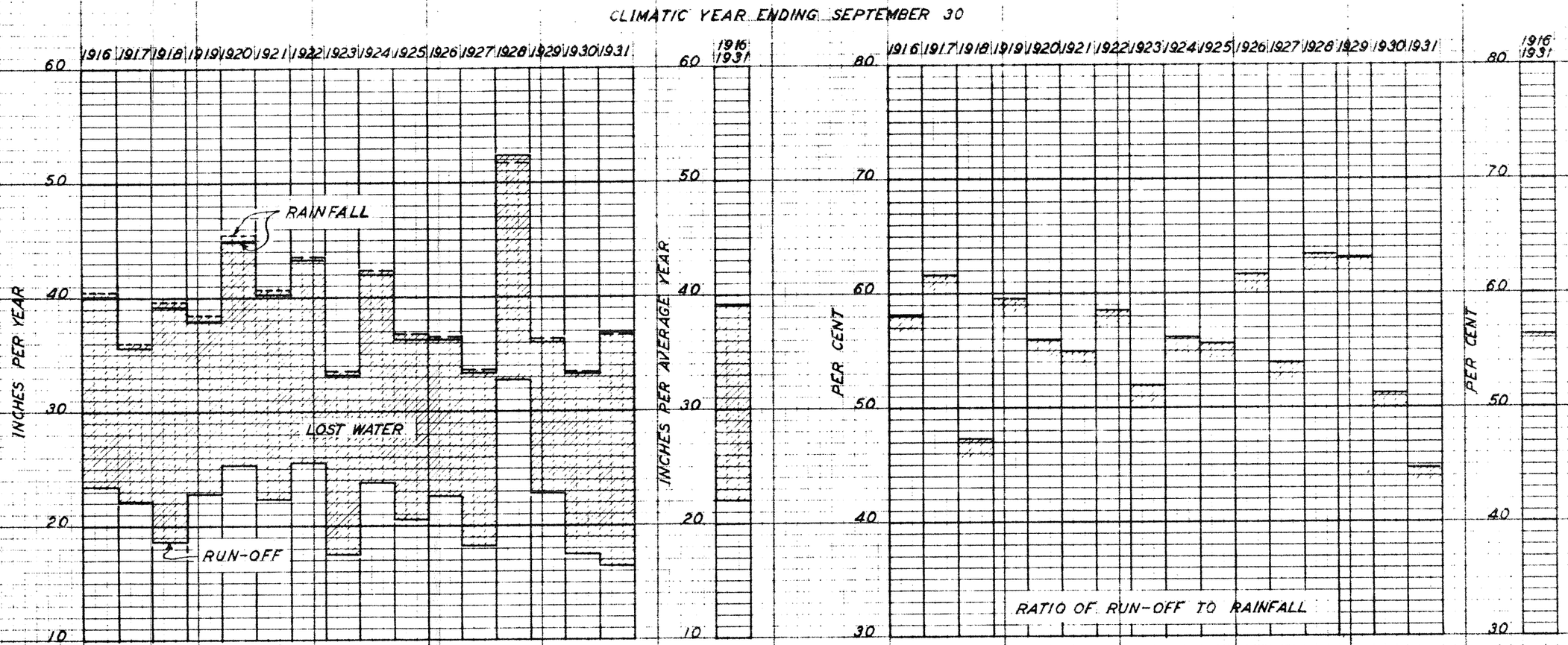
——— RAINFALL AS RECORDED AT EIGHT STATIONS, ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., BLOOMFIELD, VT., GLENCLIFF, N.H., NORTHFIELD, VT., AND WOODSTOCK, VT.

– – – – RAINFALL AS RECORDED AT ELEVEN STATIONS ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., BLOOMFIELD, VT., GLENCLIFF, N.H., NORTHFIELD, VT. WOODSTOCK, VT., GARFIELD, VT., PITTSBURG, N.H., AND BERLIN, N.H.

- - - - - ESTIMATED RAINFALL 1912 TO 1921 INCLUSIVE, BASED ON RECORDS AT EIGHT STATIONS ADJUSTED TO SHOW EFFECT OF PROBABLE RAINFALL AT THREE STATIONS HAD THEY BEEN OPERATING.

——— RUN-OFF AT WHITE RIVER JUNCTION, VT.

CONNECTICUT RIVER
RAINFALL AND RUN-OFF GRAPHS
AT WHITE RIVER JUNCTION, VT.
OCTOBER 1, 1911 TO SEPTEMBER 30, 1931



—— RAINFALL AS RECORDED AT FIFTEEN STATIONS, ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., BLOOMFIELD, VT., GLENCLIFF, N.H., NORTHFIELD, VT., WOODSTOCK, VT., GARFIELD, VT., KEENE, N.H., CAVENDISH, VT., SOMERSET, VT., TURNERS FALLS, MASS., PITTSBURG, N.H. AND BERLIN, N.H.

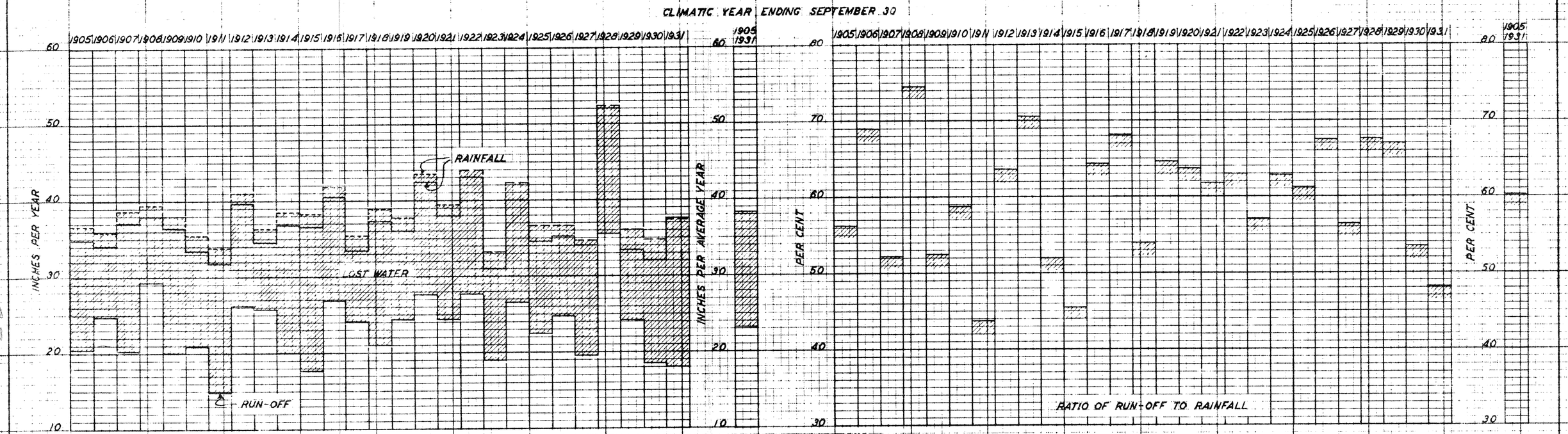
—— RUN-OFF AT TURNERS FALLS, MASS.

—— RAINFALL AS RECORDED AT THIRTEEN STATIONS, ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., BLOOMFIELD, VT., GLENCLIFF, N.H., NORTHFIELD, VT., WOODSTOCK, VT., GARFIELD, VT., KEENE, N.H., CAVENDISH, VT., SOMERSET, VT. AND TURNERS FALLS, MASS.

------ ESTIMATED RAINFALL 1916 TO 1921 INCLUSIVE, BASED ON RECORDS AT THIRTEEN STATIONS ADJUSTED TO SHOW EFFECT OF PROBABLE RAINFALL OF TWO STATIONS HAD THEY BEEN OPERATING.

CONNECTICUT RIVER
RAINFALL AND RUN-OFF GRAPHS
AT TURNERS FALLS, MASS.
OCTOBER 1, 1915 TO SEPTEMBER 30, 1931

FIGURE 14



——— RAINFALL AS RECORDED AT ELEVEN STATIONS; ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., NORTHFIELD, VT., WOODSTOCK, VT., KEENE, N.H., CAVENDISH, VT., AMHERST, MASS., TURNERS FALLS, MASS., AND SPRINGFIELD, MASS.

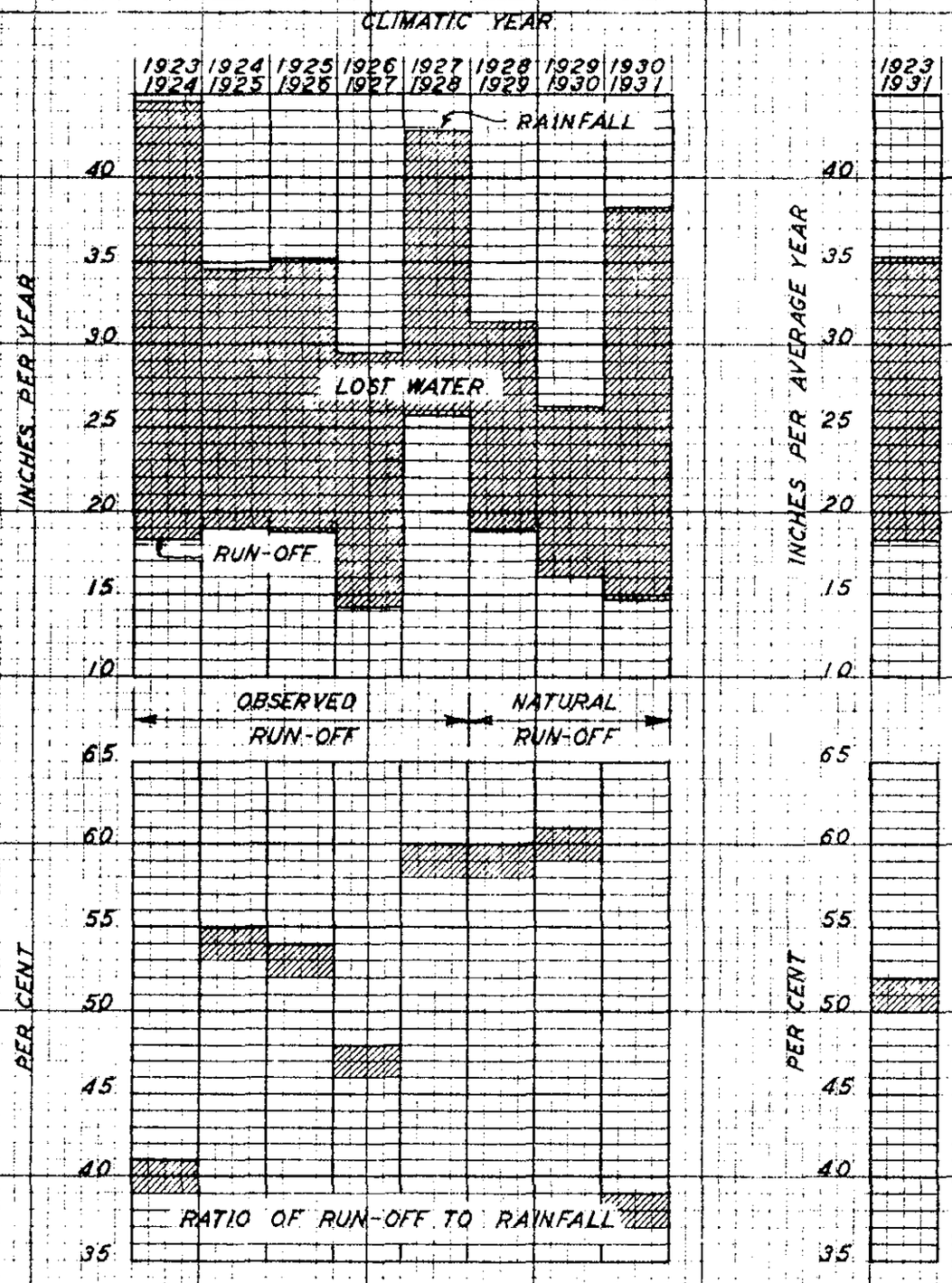
------ ESTIMATED RAINFALL 1905 TO 1921 INCLUSIVE, BASED ON RECORDS AT ELEVEN STATIONS ADJUSTED TO SHOW EFFECT OF PROBABLE RAINFALL AT SIX STATIONS HAD THEY BEEN OPERATING.

— — — RAINFALL AS RECORDED AT SEVENTEEN STATIONS; ST. JOHNSBURY, VT., HANOVER, N.H., BETHLEHEM, N.H., CHELSEA, VT., NORTHFIELD, VT., WOODSTOCK, VT., KEENE, N.H., CAVENDISH, VT., AMHERST, MASS., TURNERS FALLS, MASS., SPRINGFIELD, MASS., BLOOMFIELD, VT., GLENCLIFF, N.H., GARFIELD, VT., PITTSBURG, N.H., BERLIN, N.H. AND SOMERSET, VT.

——— RUN-OFF AT SUNDERLAND, MASS.

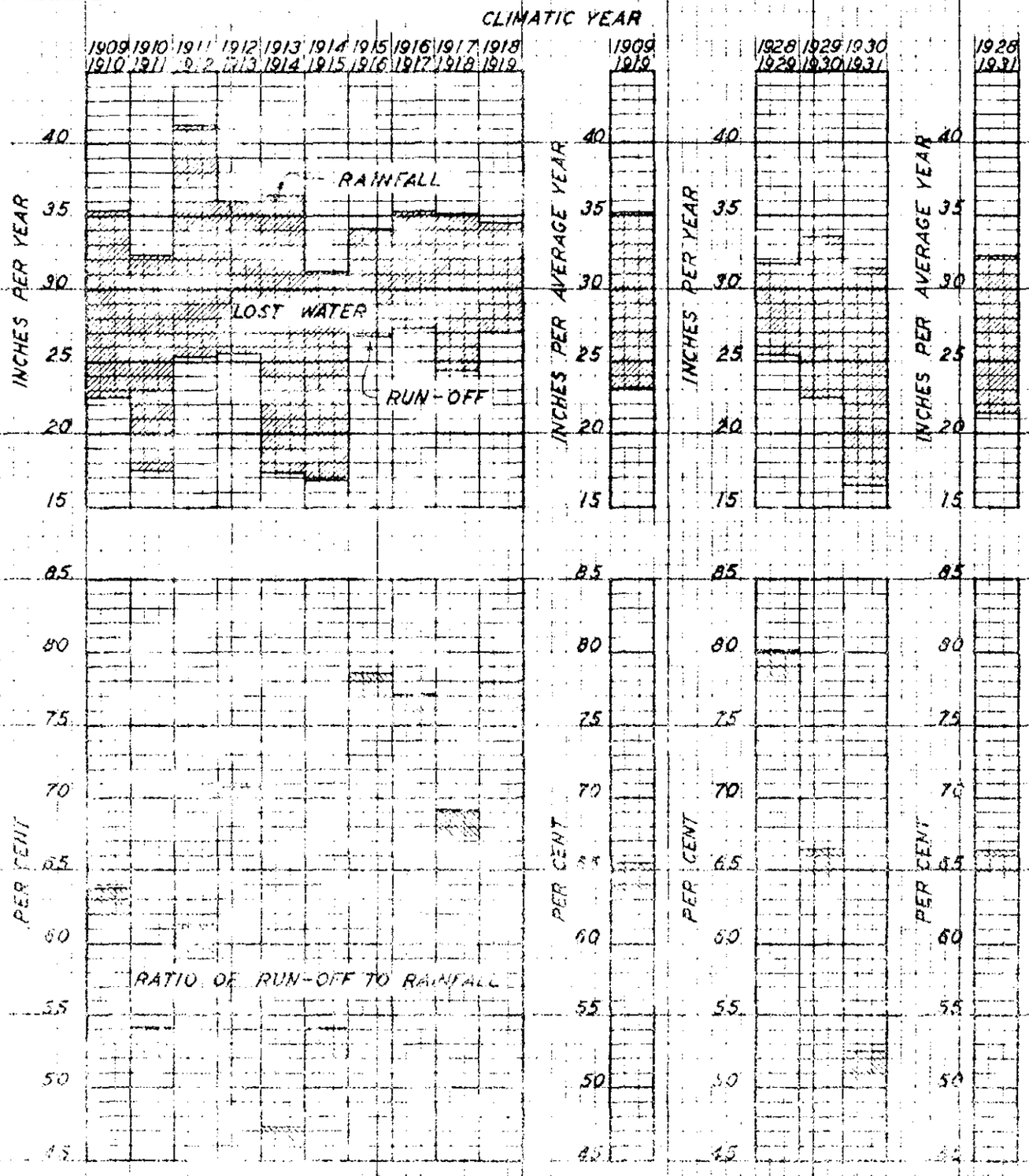
CONNECTICUT RIVER
RAINFALL AND RUN-OFF GRAPHS
AT SUNDERLAND, MASS.
OCTOBER 1, 1904 TO SEPTEMBER 30, 1931

FIGURE 13

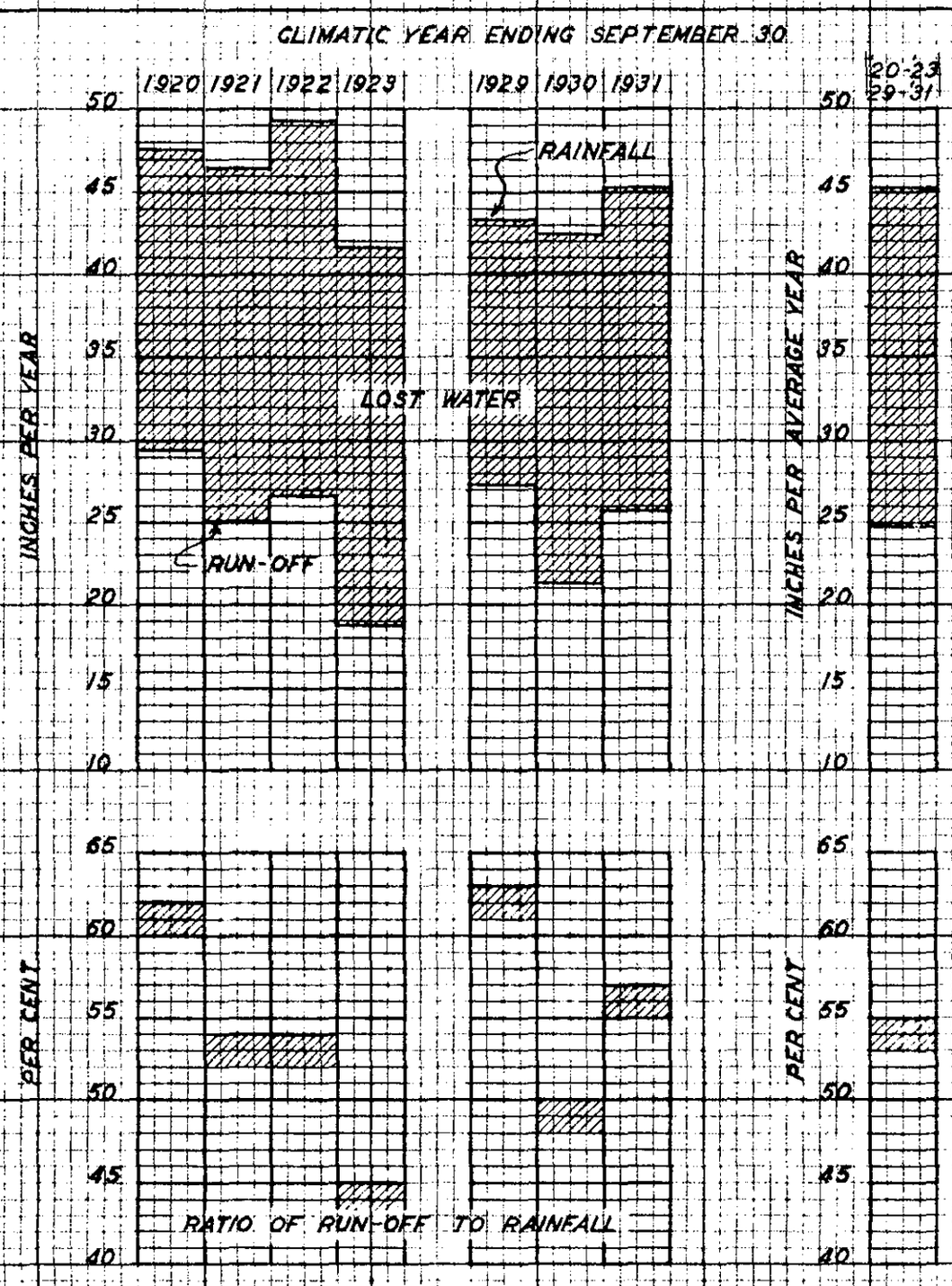


MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
RAINFALL AND RUN-OFF GRAPHS
OCTOBER 1, 1923 TO SEPTEMBER 30, 1931
RUN-OFF RECORD AT MASCOMA
RAINFALL RECORD AT HANOVER
DRAINAGE AREA 153 SQUARE MILES

FIGURE 3

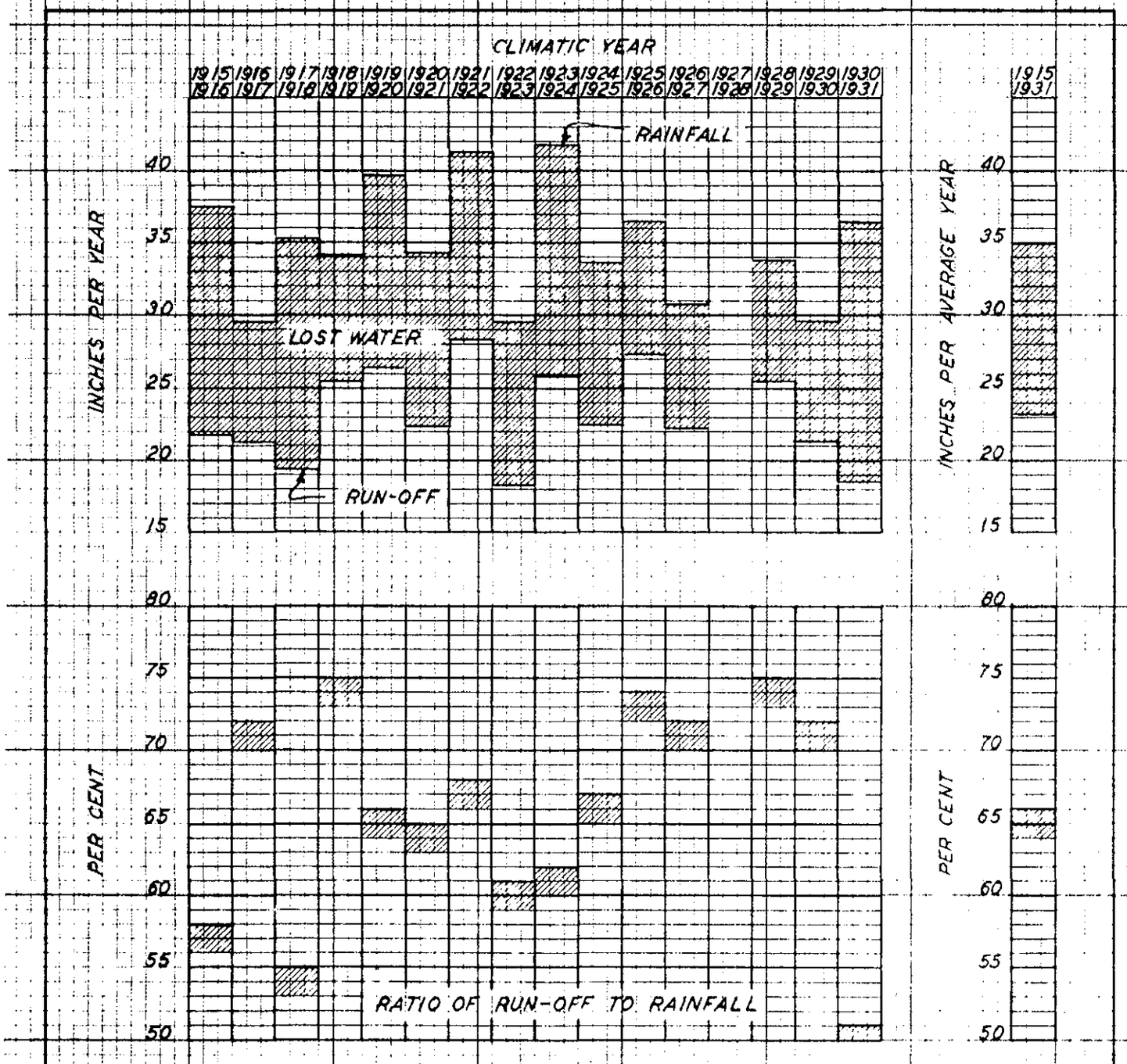


PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
RAINFALL AND RUN-OFF GRAPHS
OCTOBER 1, 1909 TO SEPTEMBER 30, 1919
RUN-OFF RECORD AT PIERCES MILLS
OCTOBER 1, 1928 TO SEPTEMBER 30, 1931
RUN-OFF RECORD AT PASSUMPSIC
RAINFALL RECORD AT ST. JOHNSBURY



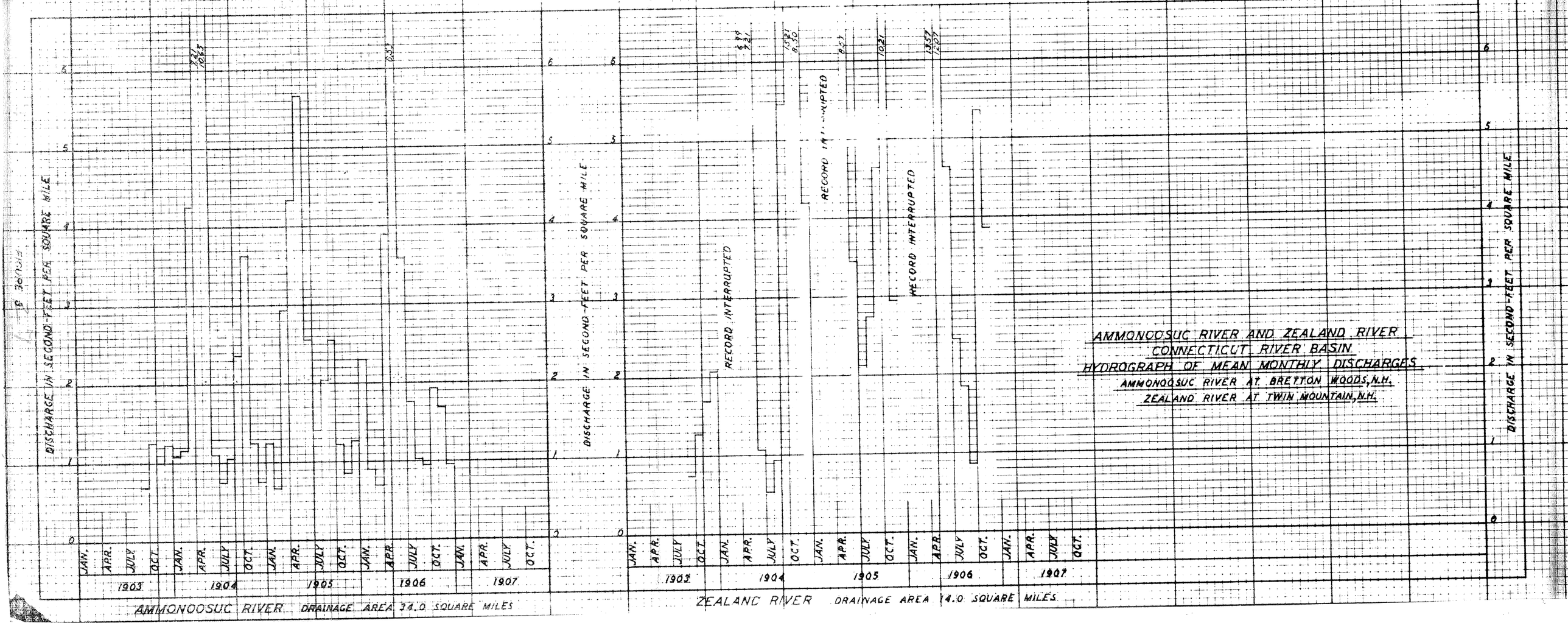
WEST RIVER, VERMONT
CONNECTICUT RIVER BASIN
RAINFALL AND RUN-OFF GRAPHS
RUN-OFF RECORD AT NEWFANE
RAINFALL RECORD AT VERNON AND SOMERSET

Fig. 25



WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
RAINFALL AND RUN-OFF GRAPHS
OCTOBER 1, 1915 TO SEPTEMBER 30, 1931
RUN-OFF RECORD AT WEST HARTFORD
RAINFALL RECORD: AVERAGE OF
CHELSEA, NORTHFIELD, WOODSTOCK AND HANOVER.

FIGURE 7-6


AMMONOOSUC RIVER AND ZEALAND RIVER
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AMMONOOSUC RIVER AT BRETTON WOODS, N.H.
ZEALAND RIVER AT TWIN MOUNTAIN, N.H.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
RECORD INTERRUPTED
RECORD INTERRUPTED
RECORD INTERRUPTED
JAN.
APR.
JULY
OCT.
1903
1904
1905
1906
1907
AMMONOOSUC RIVER DRAINAGE AREA 34.0 SQUARE MILES
ZEALAND RIVER DRAINAGE AREA 14.0 SQUARE MILES

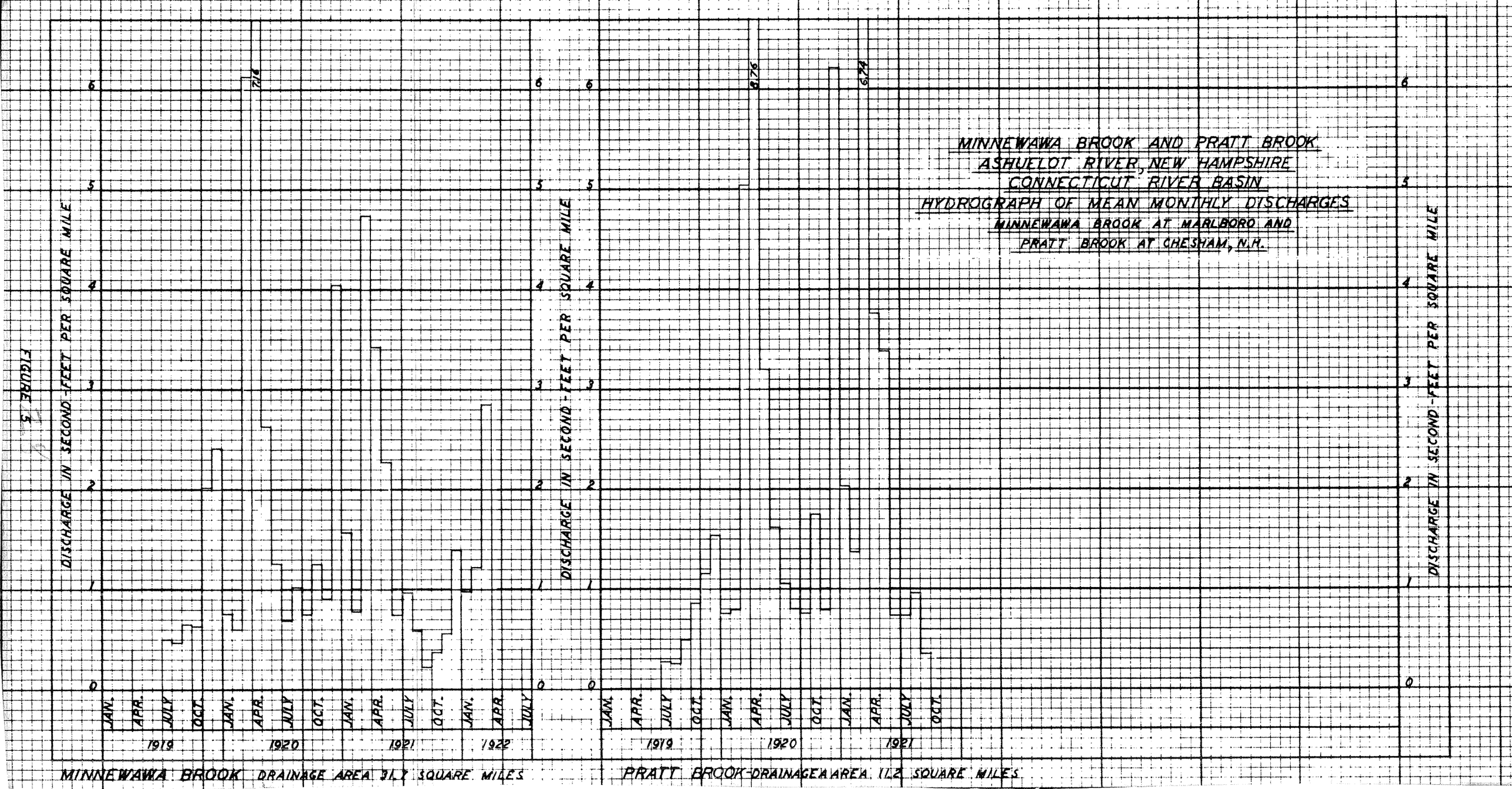

MINNEWAWA BROOK AND PRATT BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
MINNEWAWA BROOK AT MARLBORO AND
PRATT BROOK AT CHESHAM, N.H.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
7.16
8.76
6.74
JAN.
APR.
JULY
OCT.
1919
1920
1921
1922
MINNEWAWA BROOK DRAINAGE AREA 31.7 SQUARE MILES
PRATT BROOK-DRAINAGE AREA 11.2 SQUARE MILES

FIGURE 5

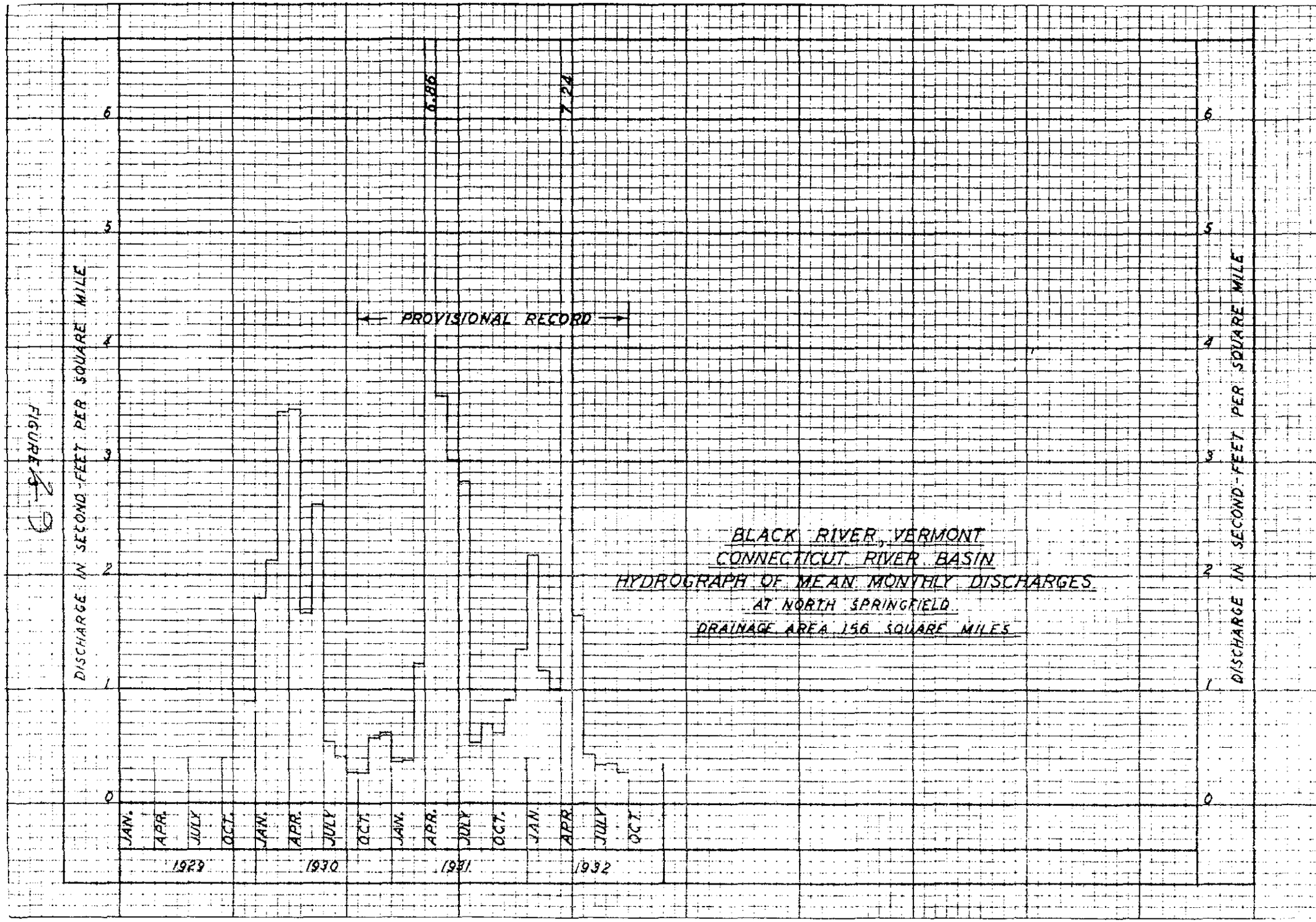
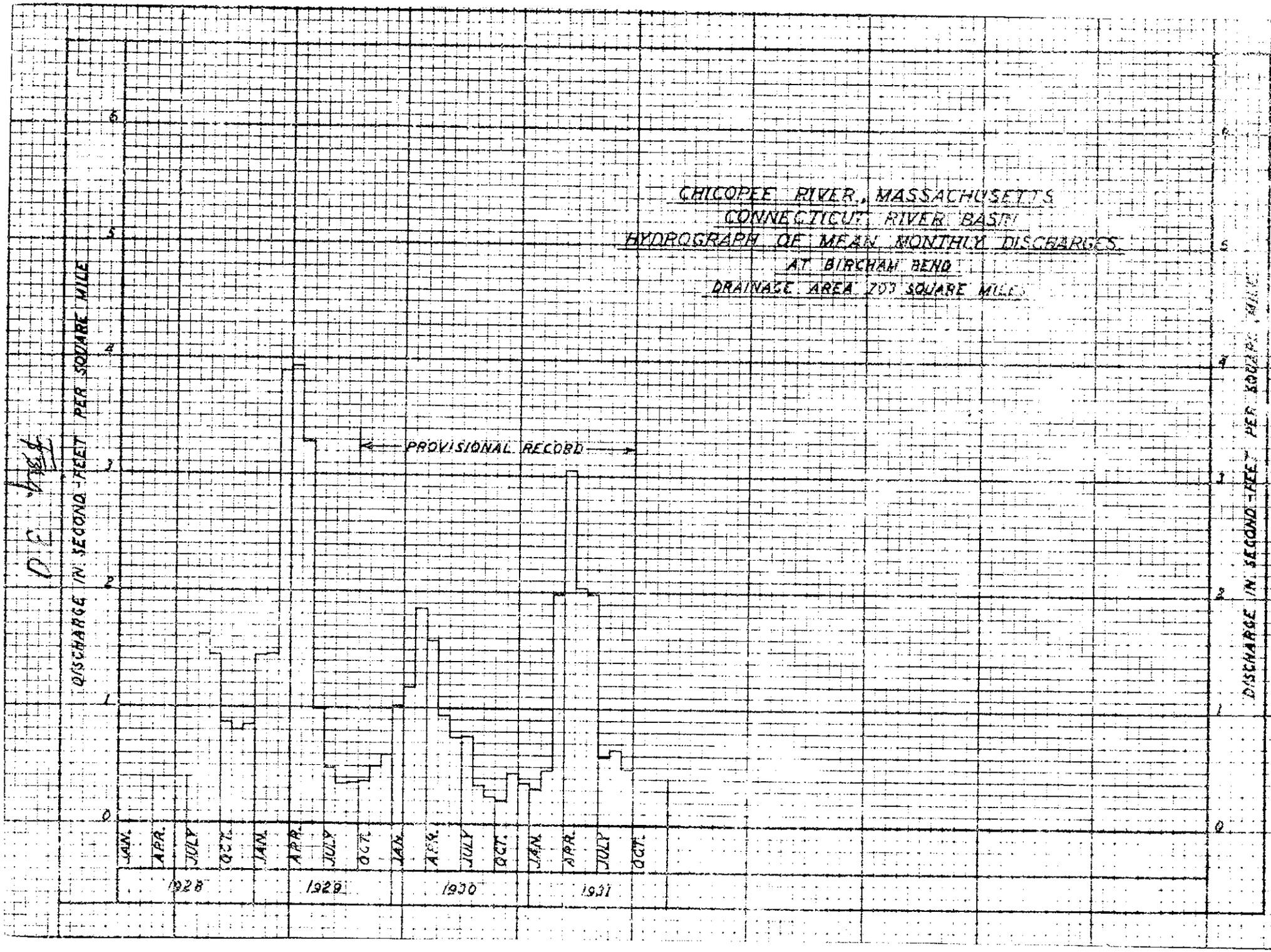
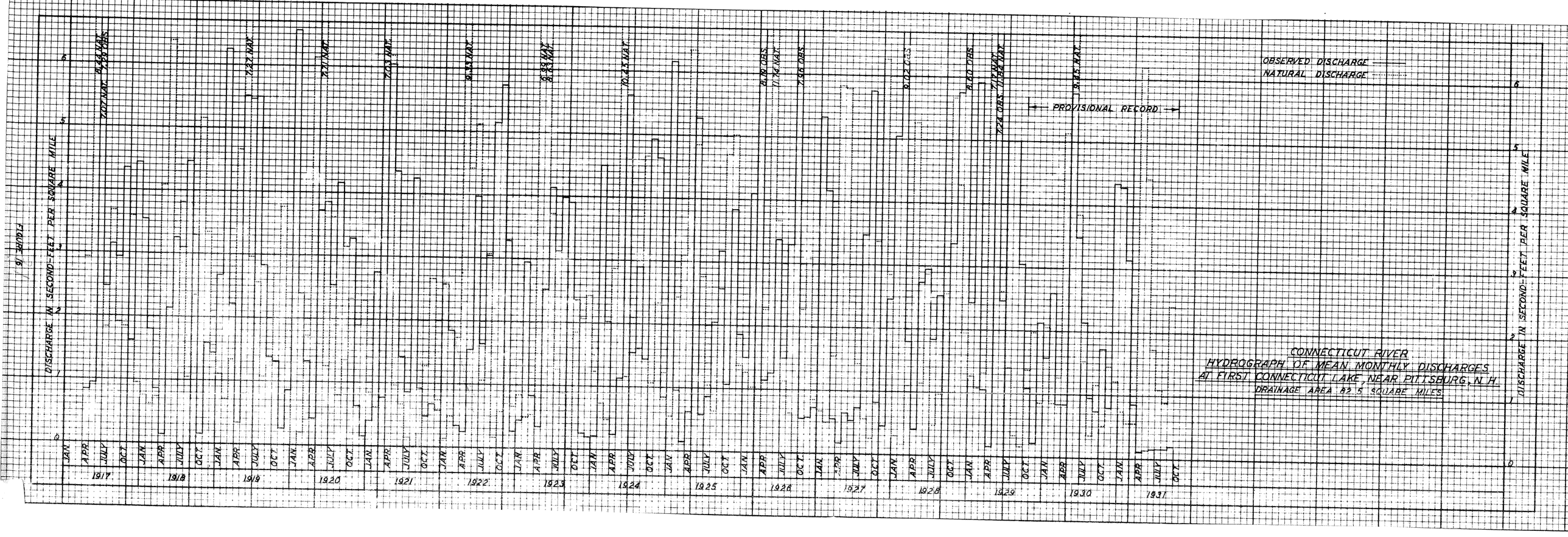

BLACK RIVER, VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT NORTH SPRINGFIELD
DRAINAGE AREA 156 SQUARE MILES
PROVISIONAL RECORD
6.86
7.24
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1929
1930
1931
1932

FIGURE 6


CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT BIRCHAM BEND
DRAINAGE AREA 203 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
PROVISIONAL RECORD
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931



CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT FIRST CONNECTICUT LAKE, NEAR PITTSBURG, N.H.
DRAINAGE AREA 82.5 SQUARE MILES
OBSERVED DISCHARGE
NATURAL DISCHARGE
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
8.44 NAT.
7.29 OBS.
7.07 NAT.
7.27 NAT.
7.71 NAT.
7.03 NAT.
9.33 NAT.
6.99 NAT.
8.63 NAT.
10.45 NAT.
8.19 OBS.
11.74 NAT.
7.96 OBS.
9.02 OBS.
8.60 OBS.
7.17 NAT.
11.84 NAT.
7.24 OBS.
9.45 NAT.
JAN. APR. JULY OCT.
1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931

FIGURE 16

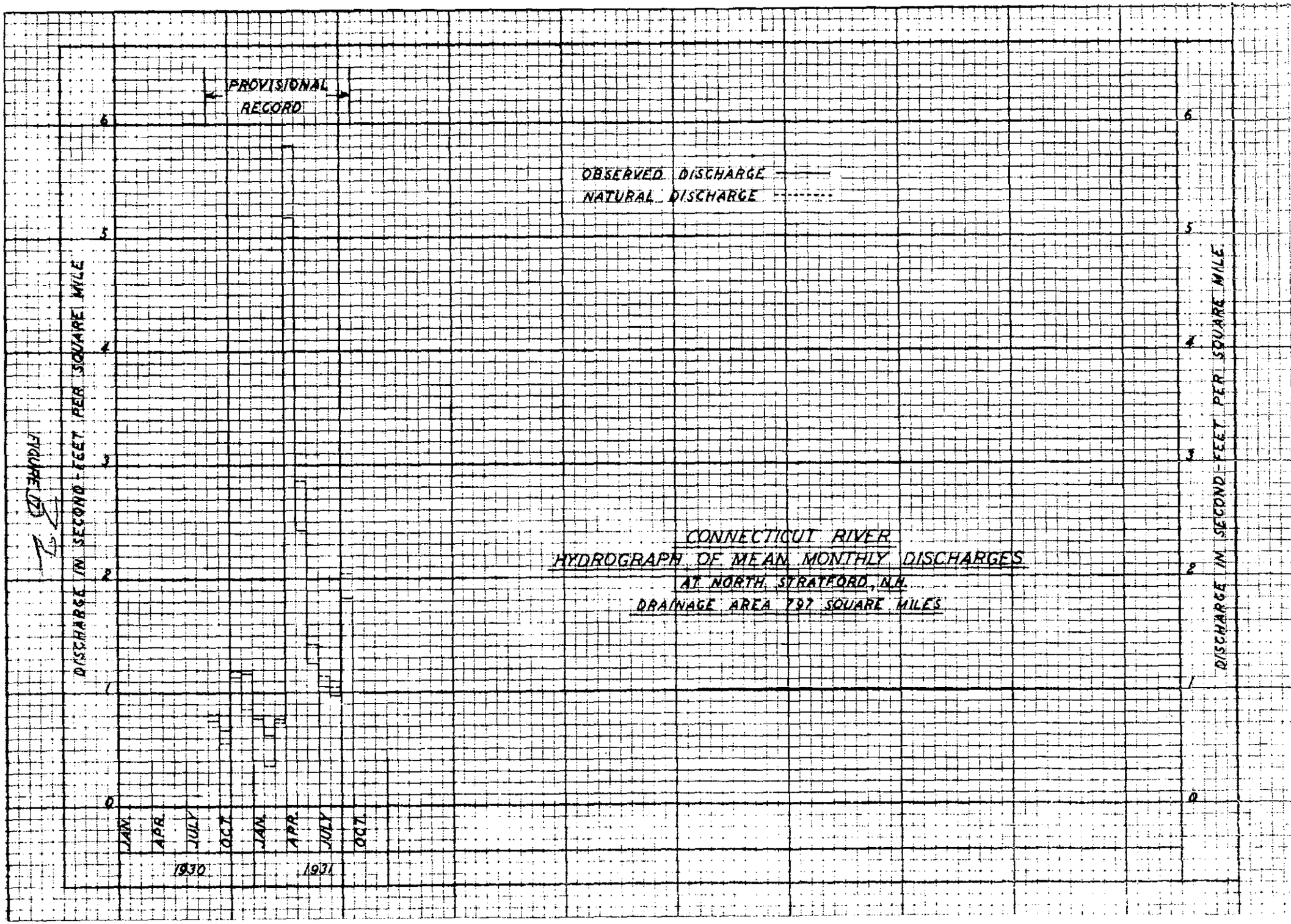

PROVISIONAL RECORD
OBSERVED DISCHARGE
NATURAL DISCHARGE
CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT NORTH STRATFORD, N.H.
DRAINAGE AREA 797 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
JAN.
APR.
JULY
OCT.
1930
1931

FIGURE 13

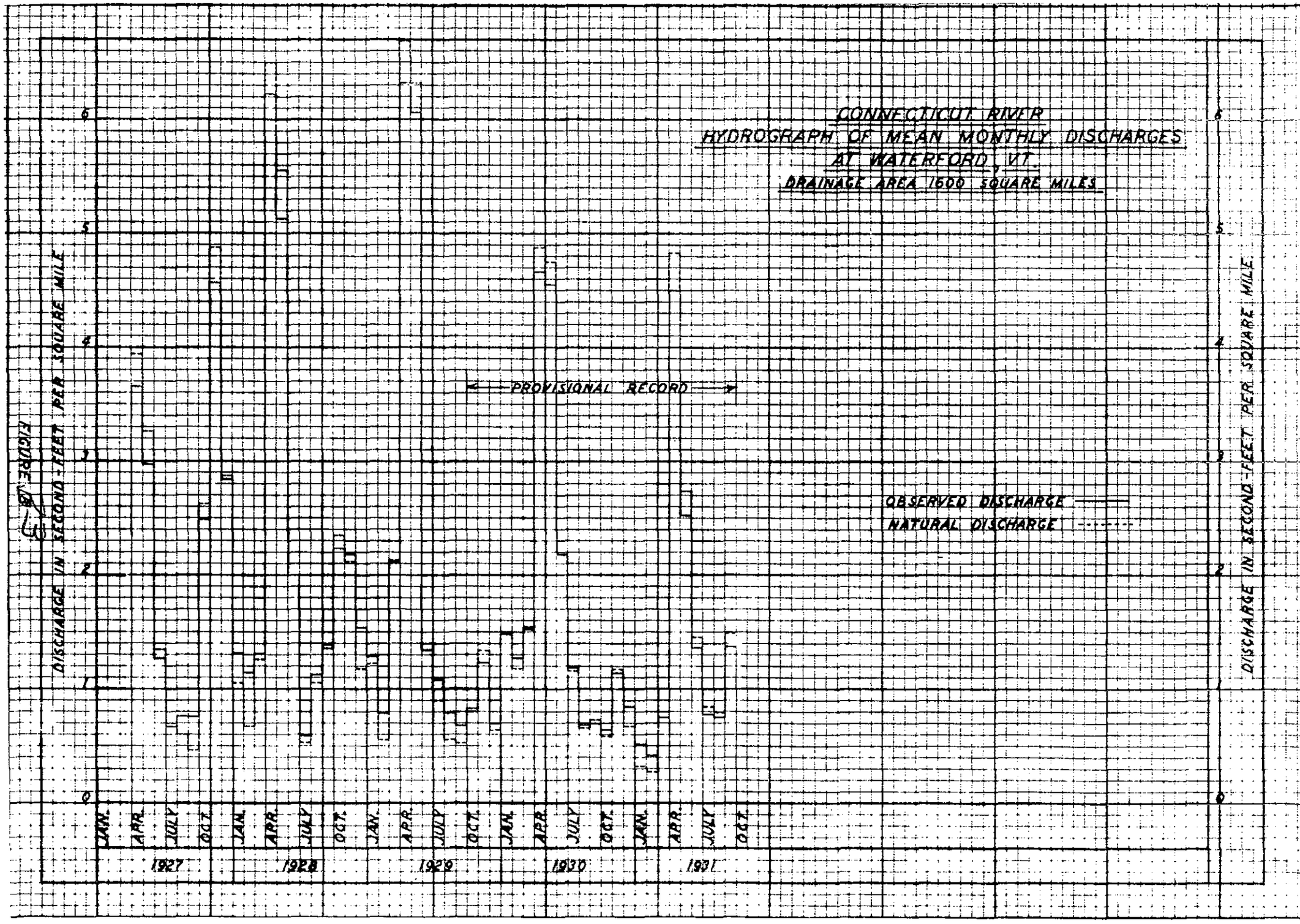

CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WATERFORD, VT.
DRAINAGE AREA 1600 SQUARE MILES
PROVISIONAL RECORD
OBSERVED DISCHARGE
NATURAL DISCHARGE
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1927
1928
1929
1930
1931

FIGURE 5

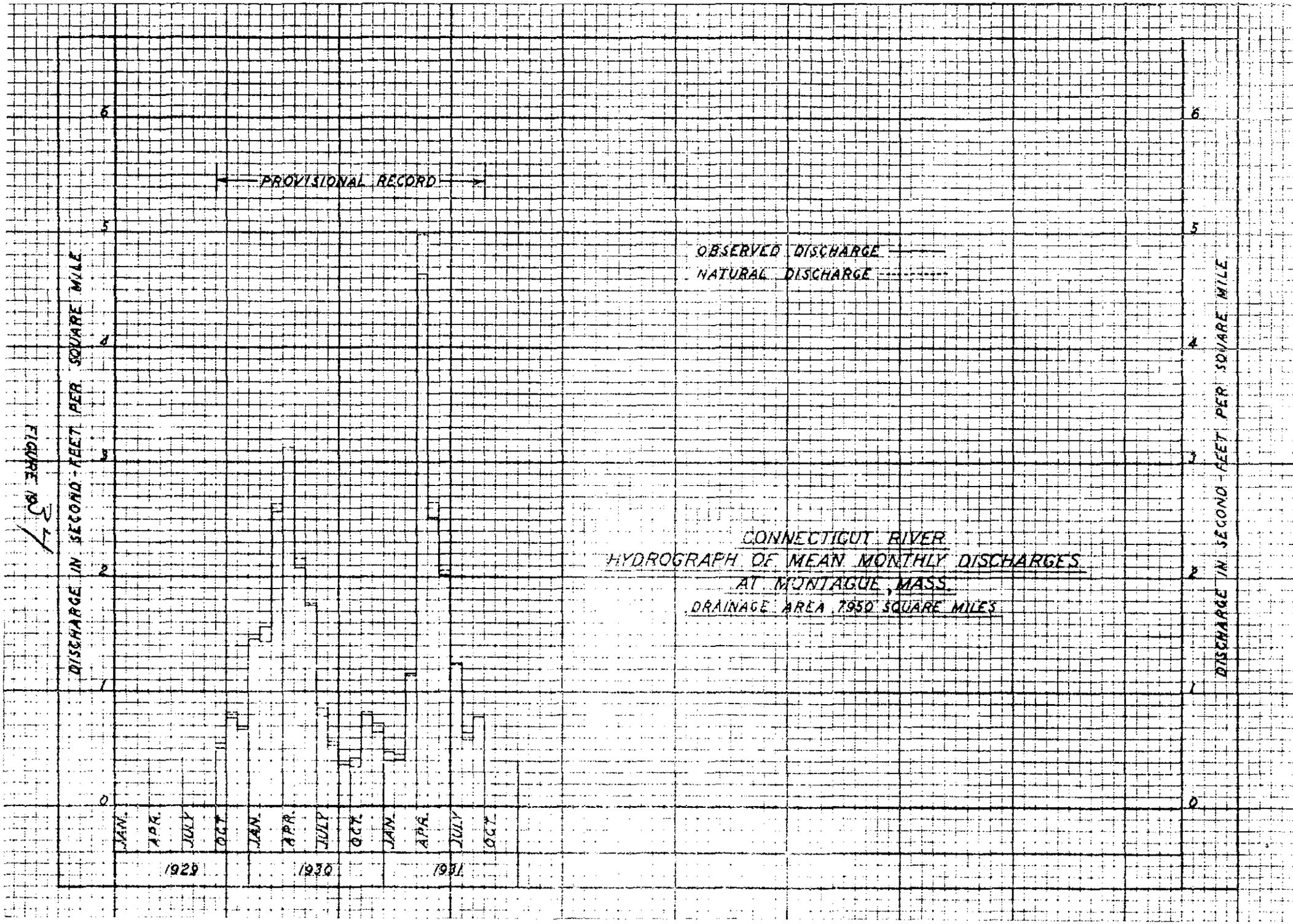

PROVISIONAL RECORD
OBSERVED DISCHARGE
NATURAL DISCHARGE
CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT MONTAGUE, MASS.
DRAINAGE AREA 7950 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1929
1930
1931

FIGURE No. 7

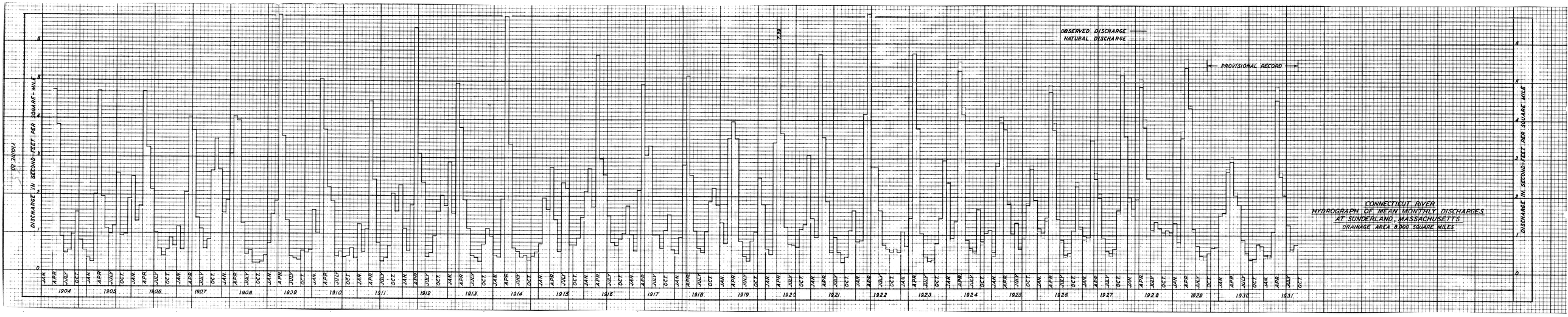

CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT SUNDERLAND, MASSACHUSETTS
DRAINAGE AREA 8,000 SQUARE MILES
OBSERVED DISCHARGE
NATURAL DISCHARGE
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN
APR
JULY
OCT
1904
1905
1906
1907
1908
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931

FIGURE 28

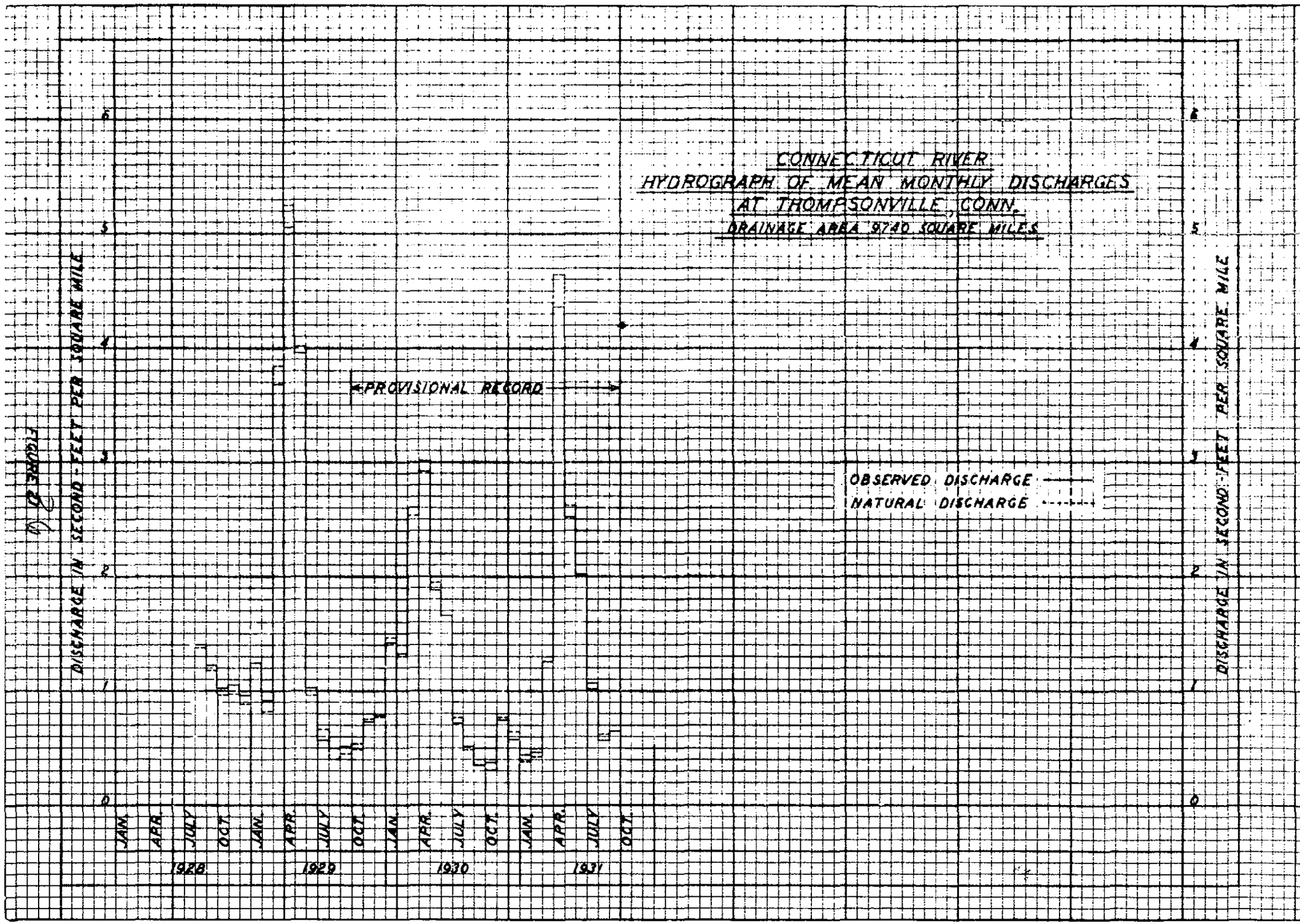
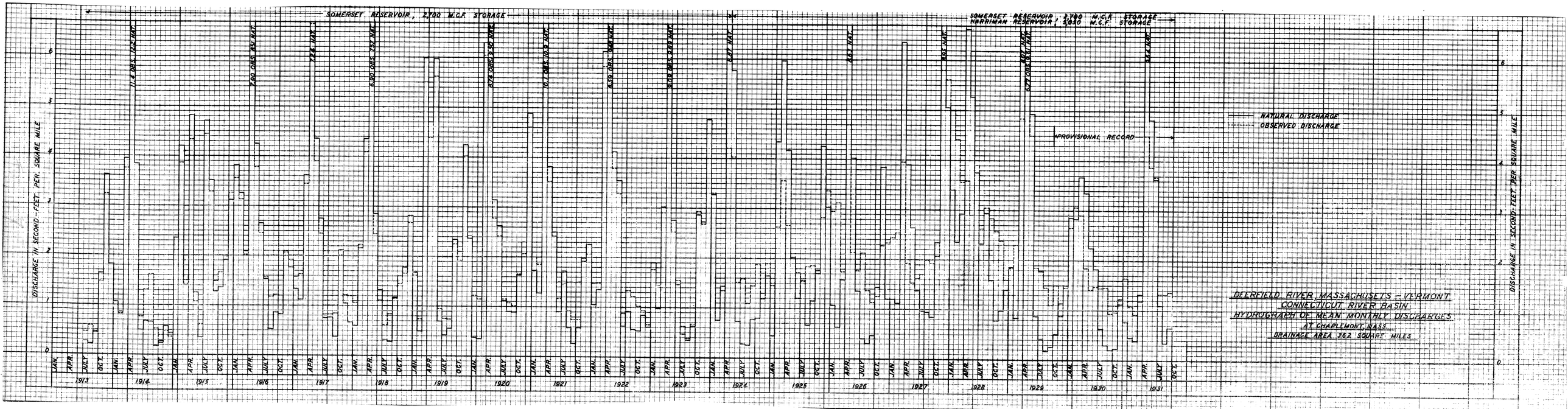
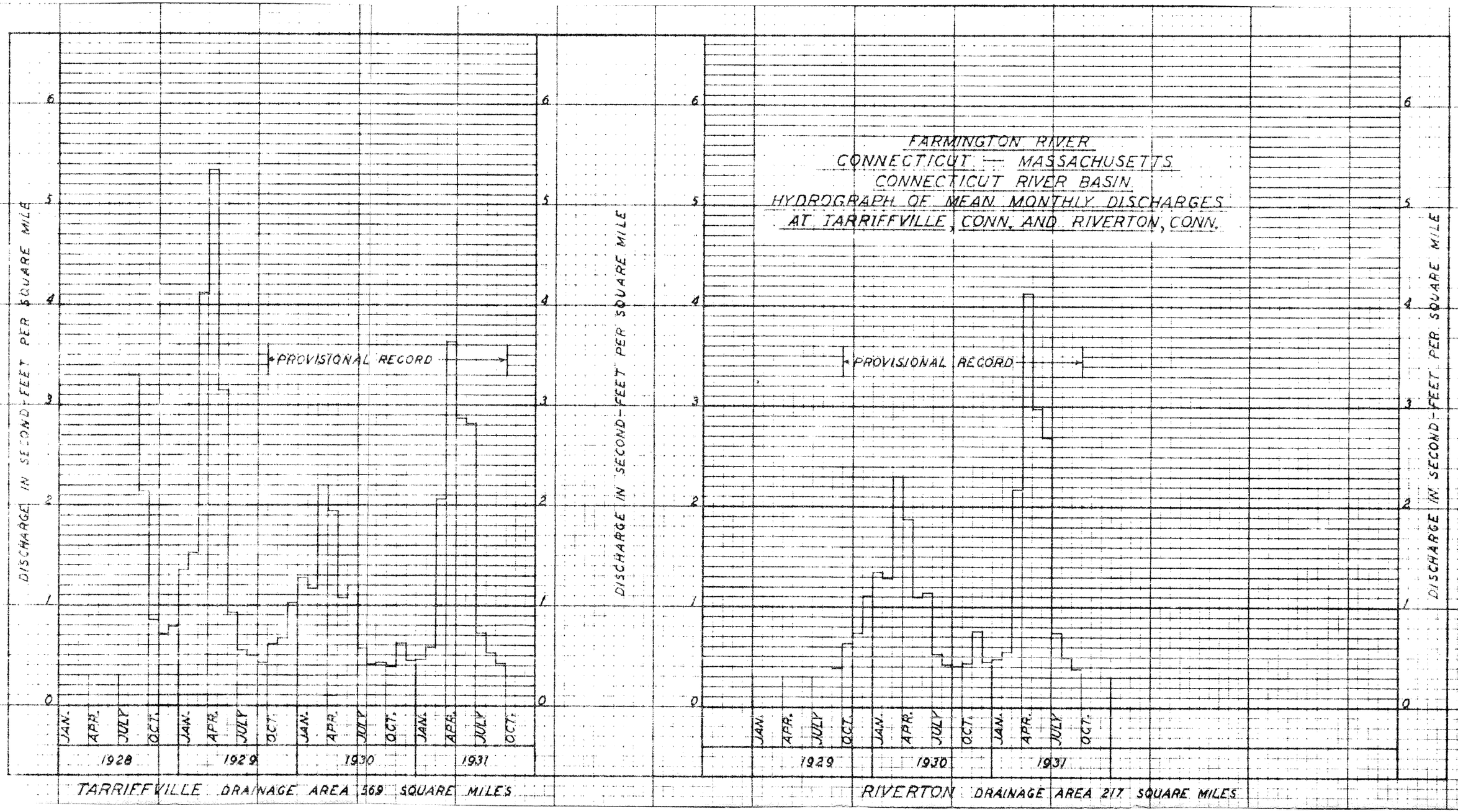
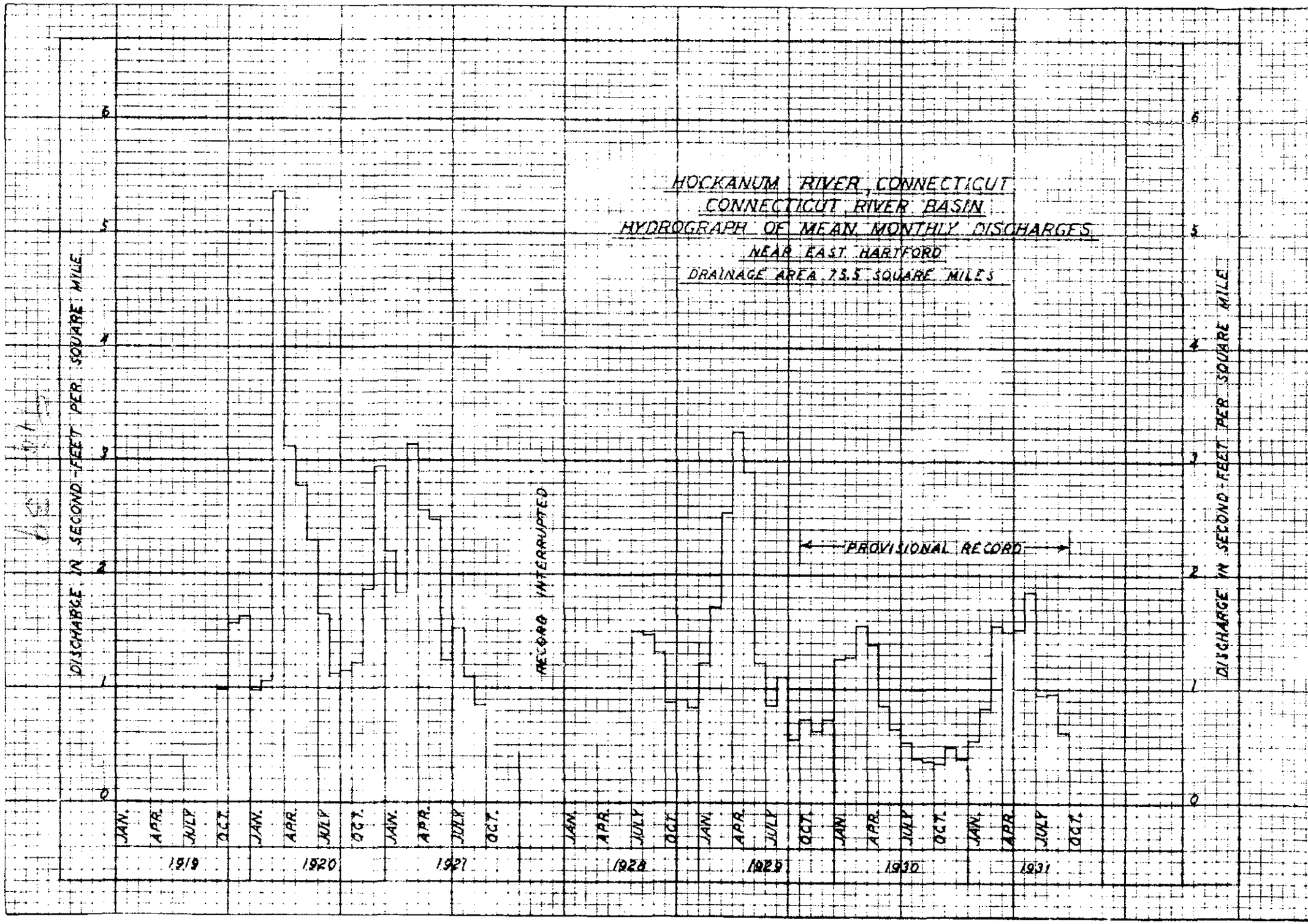

CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT THOMPSONVILLE, CONN.
DRAINAGE AREA 9740 SQUARE MILES
PROVISIONAL RECORD
OBSERVED DISCHARGE
NATURAL DISCHARGE
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931

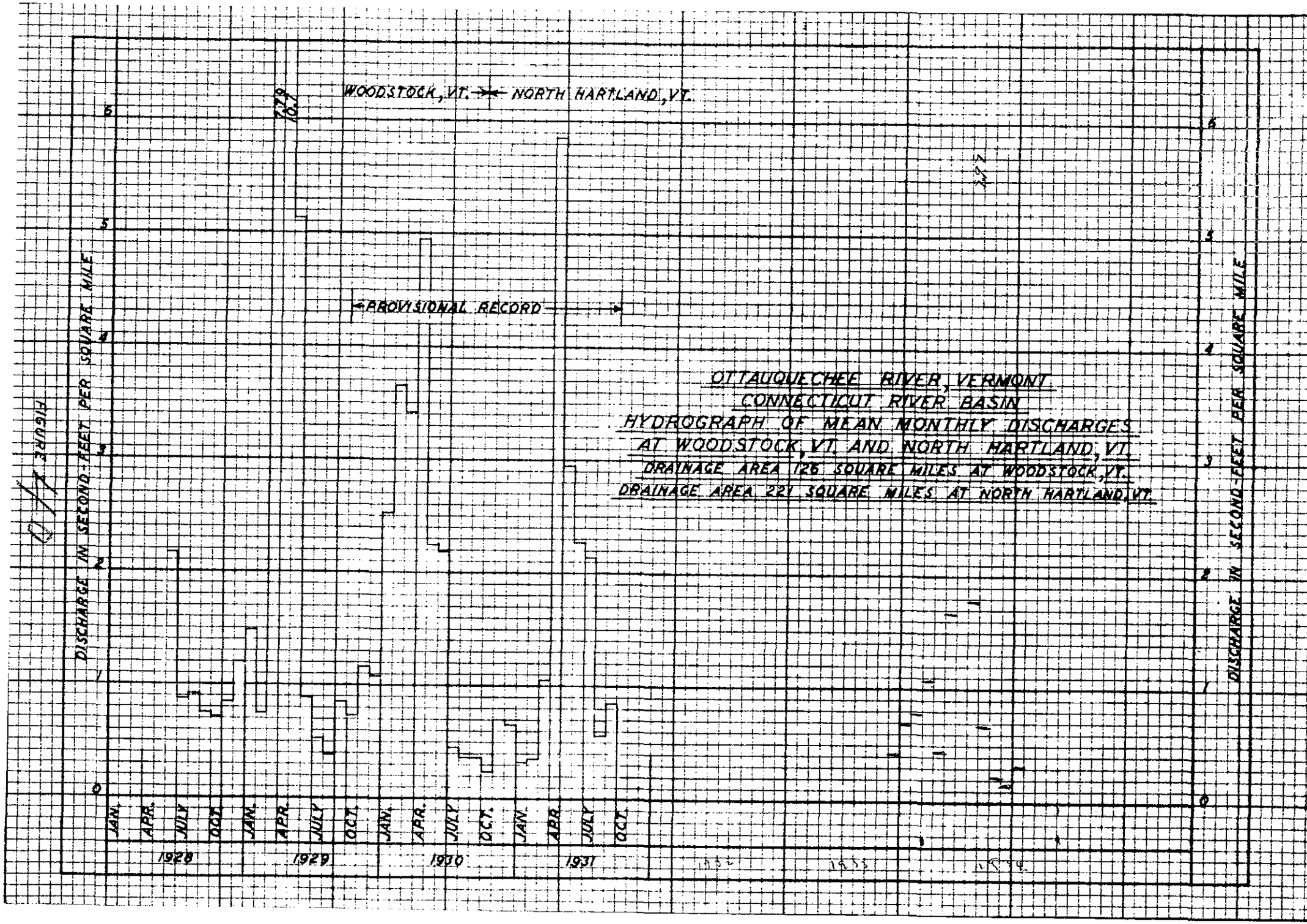
FIGURE 8



DEERFIELD RIVER, MASSACHUSETTS - VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT CHARLEMONT, MASS.
DRAINAGE AREA 362 SQUARE MILES

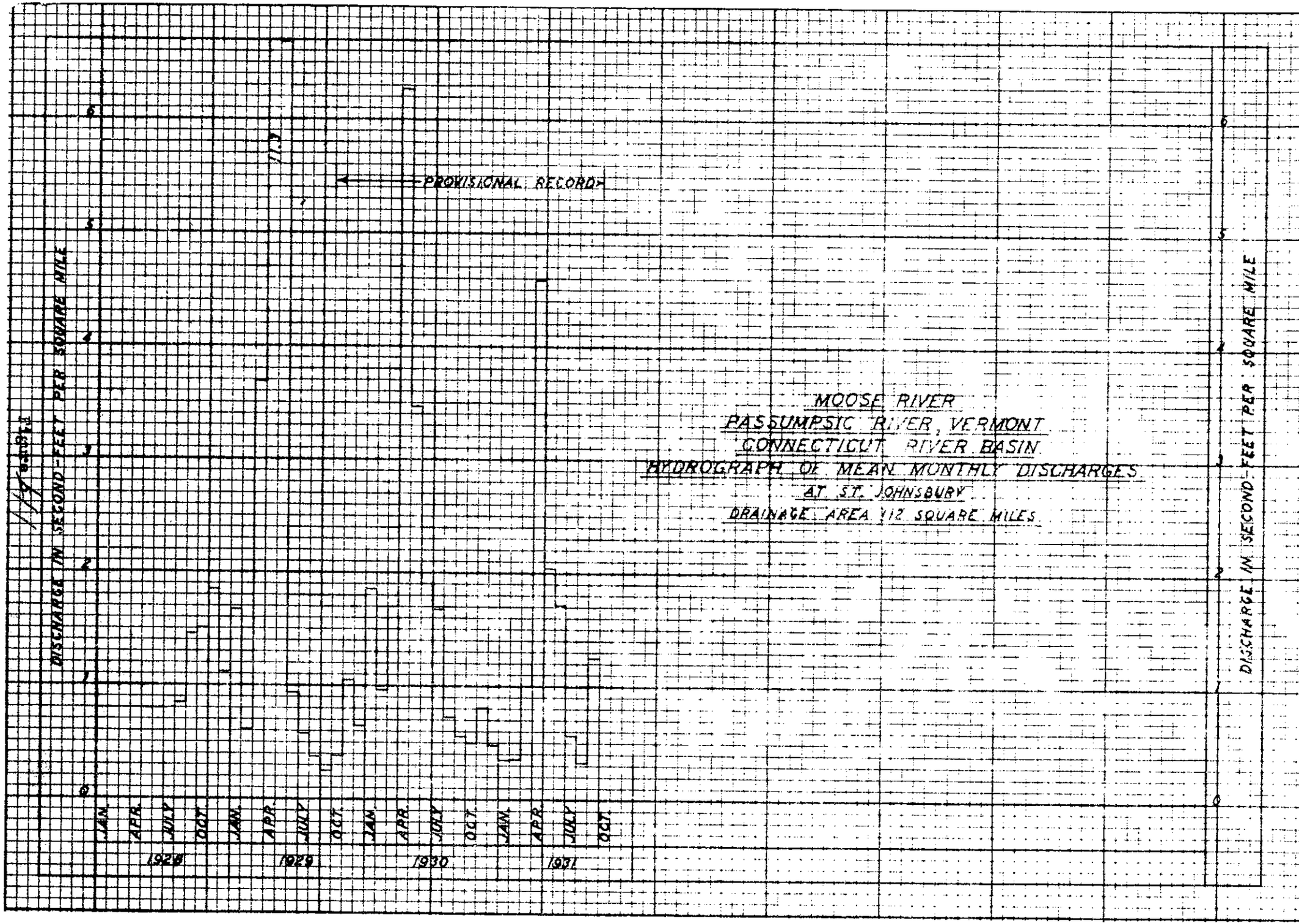

FARMINGTON RIVER
CONNECTICUT — MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT TARRIFFVILLE, CONN. AND RIVERTON, CONN.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
PROVISIONAL RECORD
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931
TARRIFFVILLE DRAINAGE AREA 369 SQUARE MILES
RIVERTON DRAINAGE AREA 217 SQUARE MILES

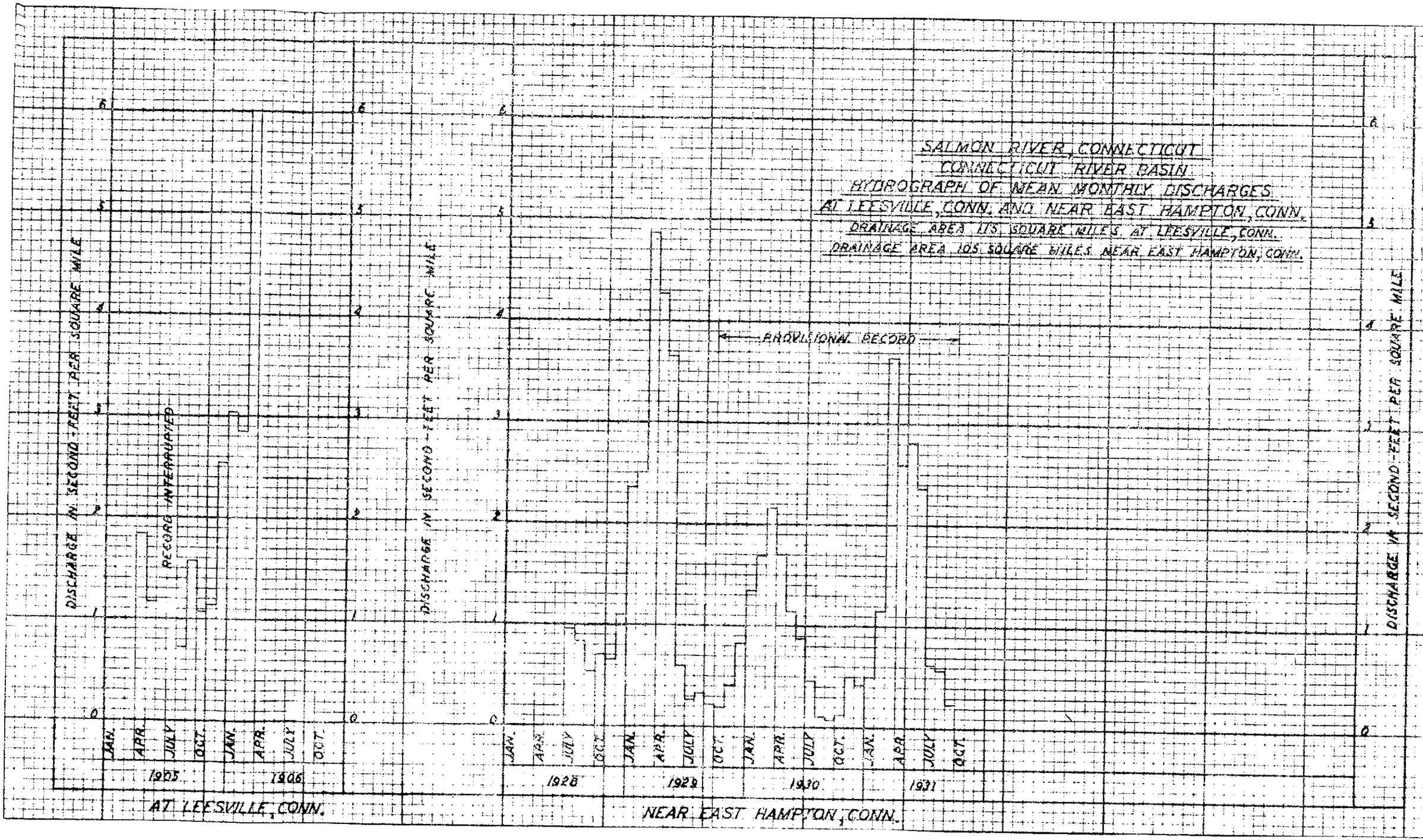

HOCKANUM RIVER, CONNECTICUT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR EAST HARTFORD
DRAINAGE AREA 73.5 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
RECORD INTERRUPTED
PROVISIONAL RECORD
JAN.
APR.
JULY
OCT.
1919
1920
1921
1928
1929
1930
1931

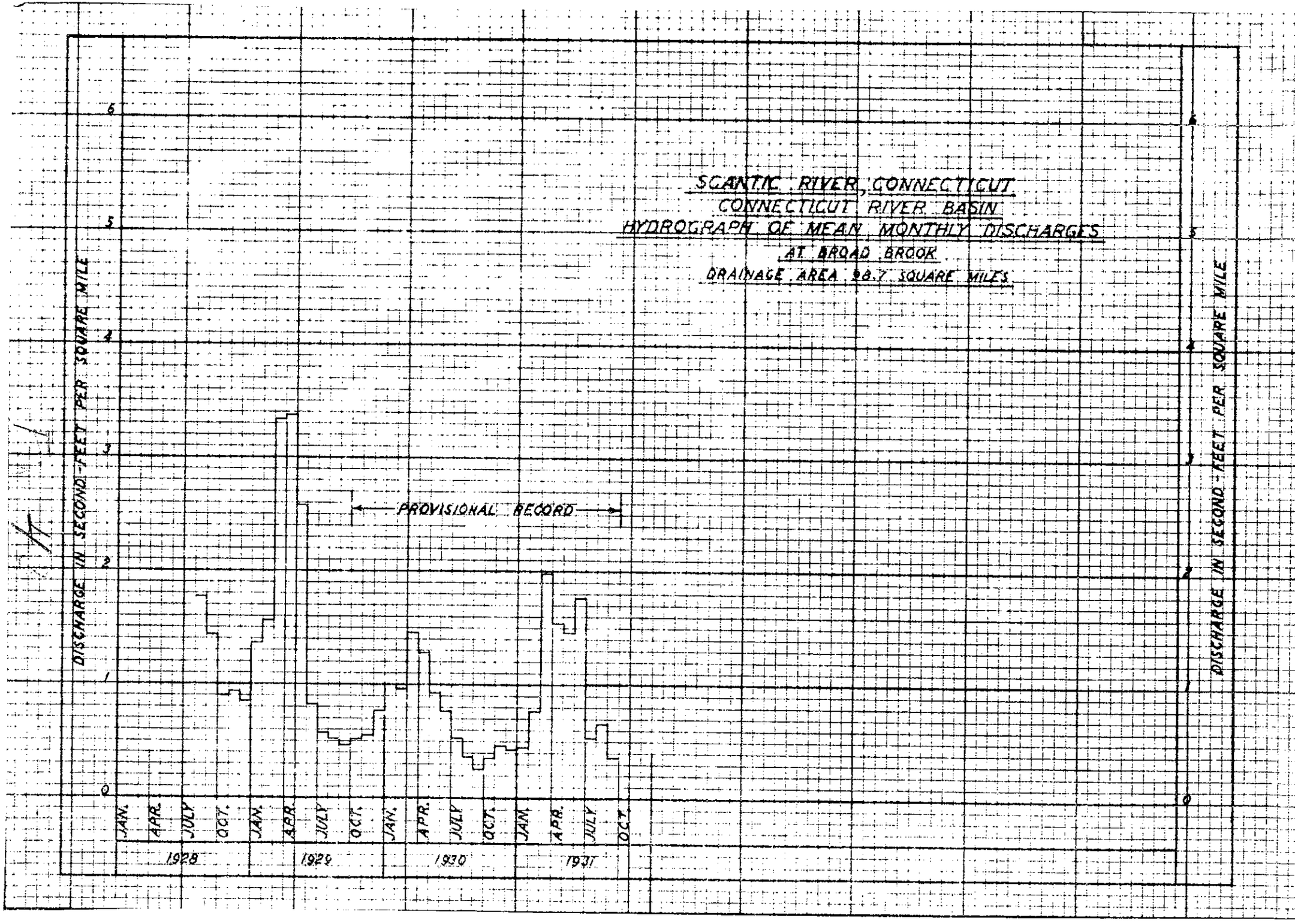


OTTAUQUECHEE RIVER, VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WOODSTOCK, VT. AND NORTH HARTLAND, VT.
DRAINAGE AREA 126 SQUARE MILES AT WOODSTOCK, VT.
DRAINAGE AREA 221 SQUARE MILES AT NORTH HARTLAND, VT.

FIGURE 17


MOOSE RIVER
PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT ST. JOHNSBURY
DRAINAGE AREA 112 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
PROVISIONAL RECORD
11.9
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931


SALMON RIVER, CONNECTICUT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT LEESVILLE, CONN. AND NEAR EAST HAMPTON, CONN.
DRAINAGE AREA 175 SQUARE MILES AT LEESVILLE, CONN.
DRAINAGE AREA 105 SQUARE MILES NEAR EAST HAMPTON, CONN.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
RECORD INTERRUPTED
PROVISIONAL RECORD
JAN.
APR.
JULY
OCT.
1905
1906
1928
1929
1930
1931
AT LEESVILLE, CONN.
NEAR EAST HAMPTON, CONN.


SCANTIC RIVER, CONNECTICUT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT BROAD BROOK
DRAINAGE AREA 98.7 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
PROVISIONAL RECORD
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931

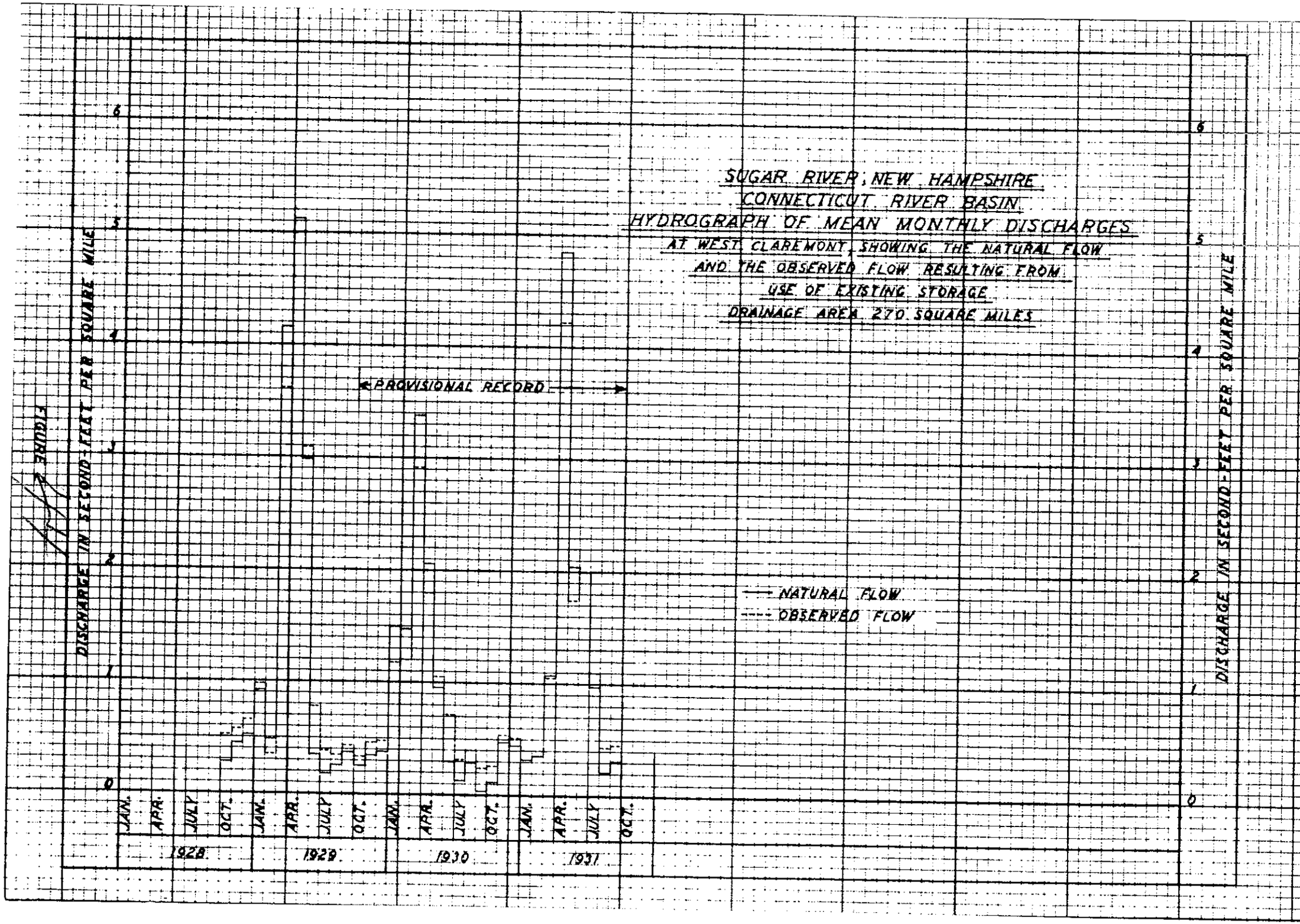
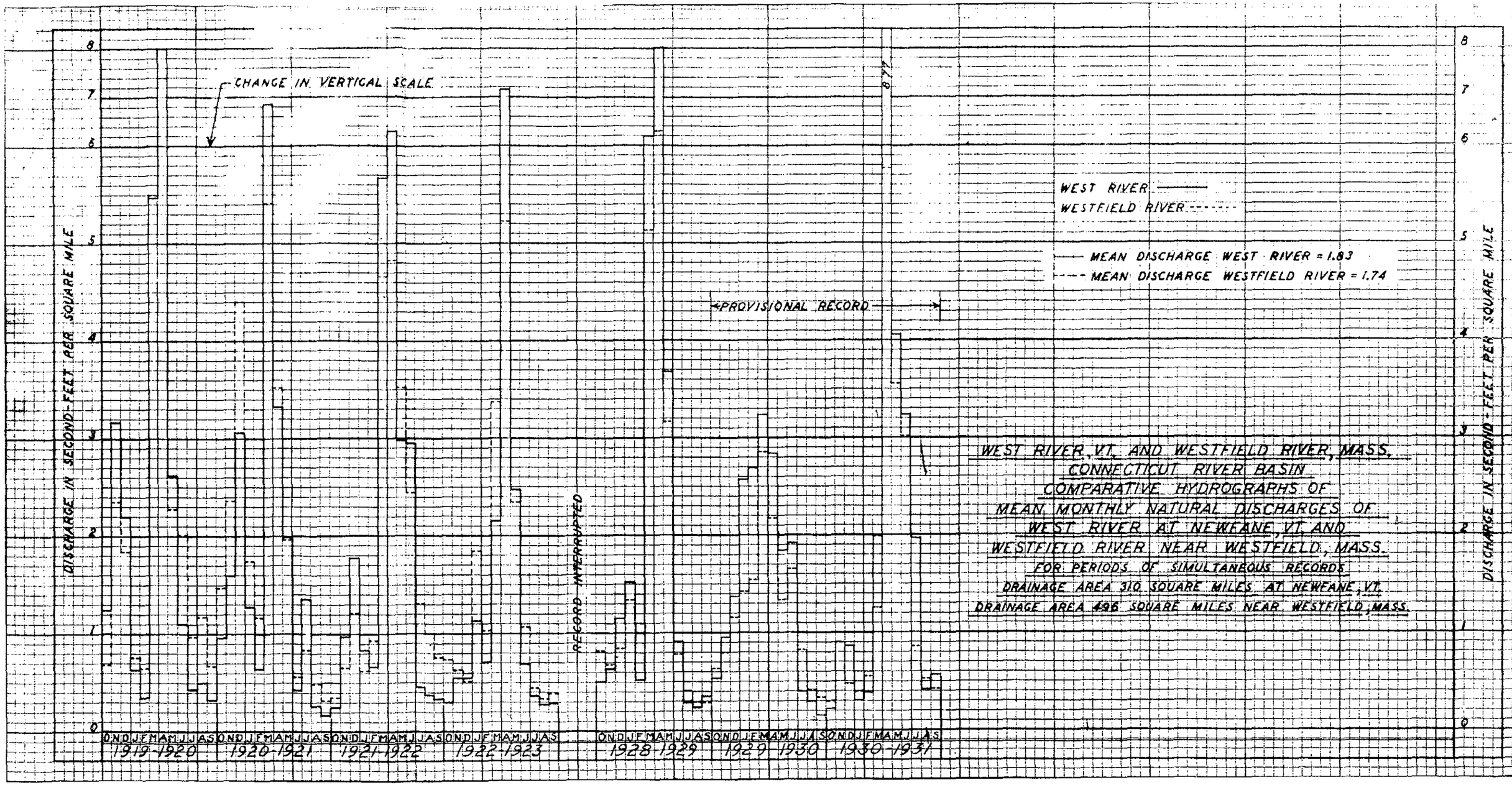
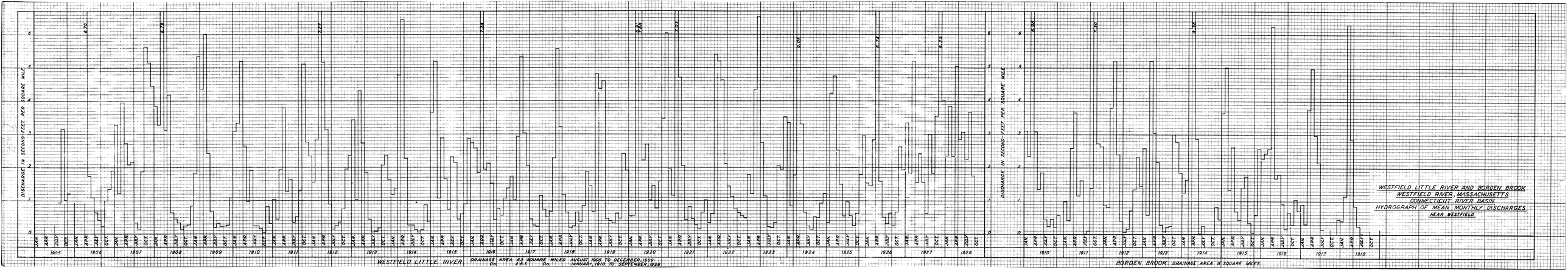
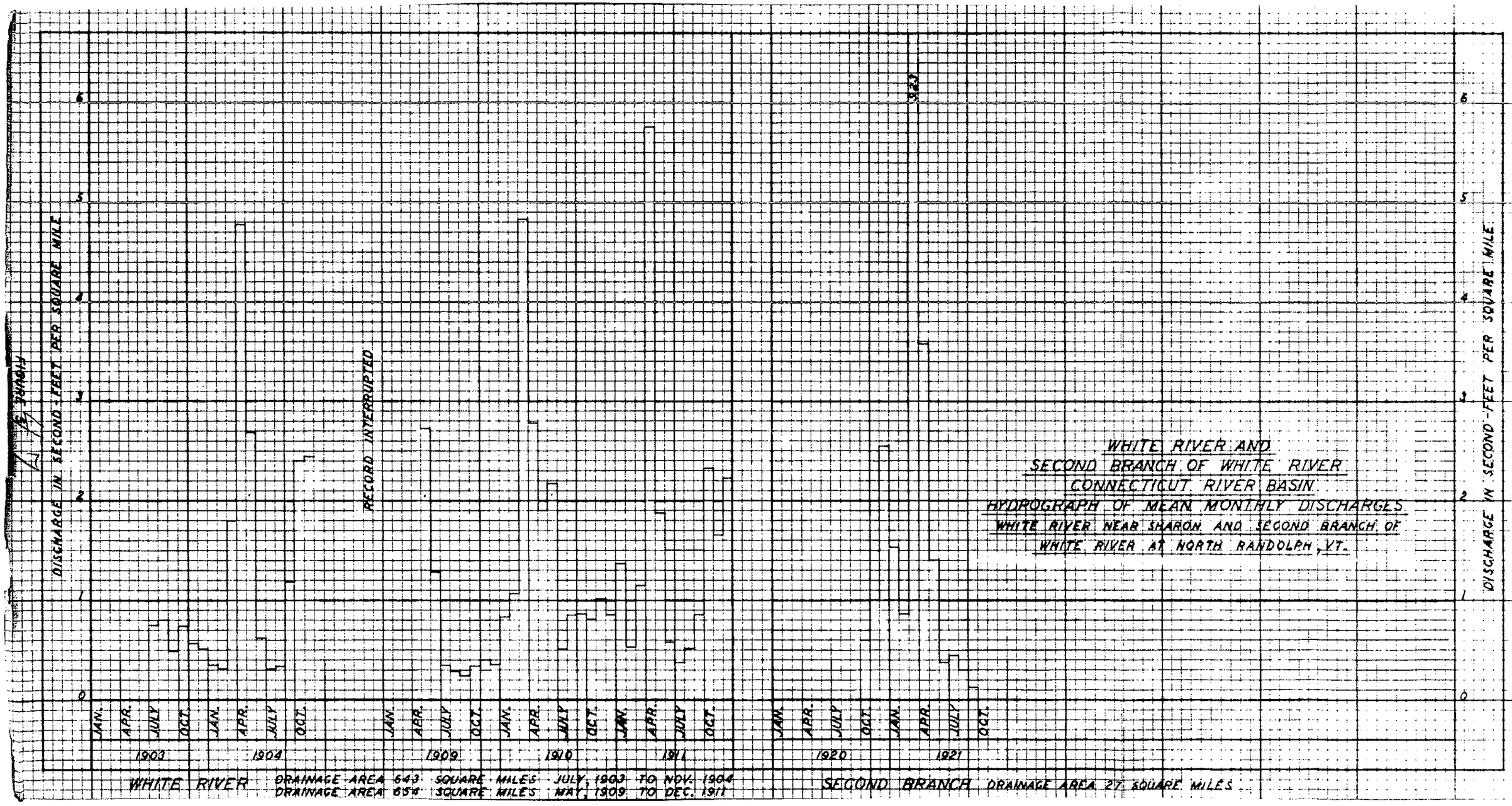

SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WEST CLAREMONT, SHOWING THE NATURAL FLOW
AND THE OBSERVED FLOW RESULTING FROM
USE OF EXISTING STORAGE
DRAINAGE AREA 270 SQUARE MILES
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
PROVISIONAL RECORD
NATURAL FLOW
OBSERVED FLOW
JAN.
APR.
JULY
OCT.
1928
1929
1930
1931

FIGURE 2


WEST RIVER, VT. AND WESTFIELD RIVER, MASS.
CONNECTICUT RIVER BASIN
COMPARATIVE HYDROGRAPHS OF
MEAN MONTHLY NATURAL DISCHARGES OF
WEST RIVER AT NEWFANE, VT. AND
WESTFIELD RIVER NEAR WESTFIELD, MASS.
FOR PERIODS OF SIMULTANEOUS RECORDS
DRAINAGE AREA 310 SQUARE MILES AT NEWFANE, VT.
DRAINAGE AREA 496 SQUARE MILES NEAR WESTFIELD, MASS.
WEST RIVER
WESTFIELD RIVER
MEAN DISCHARGE WEST RIVER = 1.83
MEAN DISCHARGE WESTFIELD RIVER = 1.74
CHANGE IN VERTICAL SCALE
PROVISIONAL RECORD
RECORD INTERRUPTED
1.78
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
7
8
O N D J F M A M J J A S
1919-1920
1920-1921
1921-1922
1922-1923
1928-1929
1929-1930
1930-1931


WESTFIELD LITTLE RIVER AND BORDEN BROOK
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR WESTFIELD.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
WESTFIELD LITTLE RIVER DRAINAGE AREA 43 SQUARE MILES AUGUST, 1905 TO DECEMBER, 1909: JANUARY, 1910 TO SEPTEMBER, 1928
BORDEN BROOK DRAINAGE AREA 8 SQUARE MILES.


WHITE RIVER AND
SECOND BRANCH OF WHITE RIVER
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
WHITE RIVER NEAR SHARON AND SECOND BRANCH OF
WHITE RIVER AT NORTH RANDOLPH, VT.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
RECORD INTERRUPTED
1903
1904
1909
1910
1911
1920
1921
WHITE RIVER DRAINAGE AREA 643 SQUARE MILES JULY, 1903 TO NOV. 1904
DRAINAGE AREA 654 SQUARE MILES MAY, 1909 TO DEC. 1911
SECOND BRANCH DRAINAGE AREA 27 SQUARE MILES

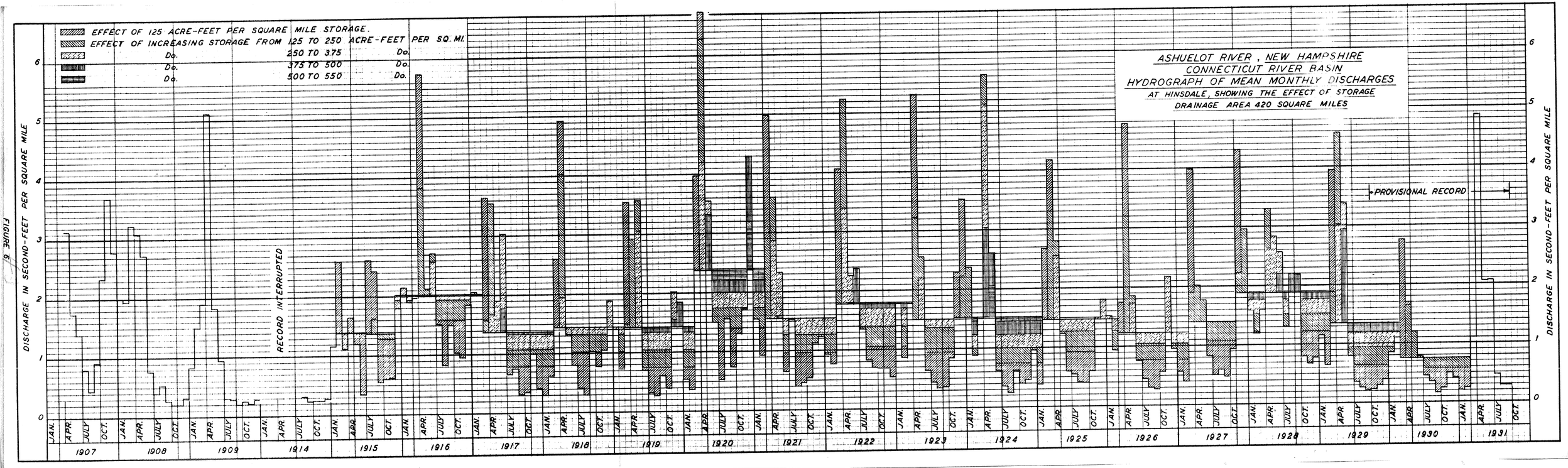

ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT HINSDALE, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 420 SQUARE MILES
EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE.
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 550 Do.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
RECORD INTERRUPTED
PROVISIONAL RECORD
JAN. APR. JULY OCT.
1907 1908 1909 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931
0 1 2 3 4 5 6

FIGURE 6

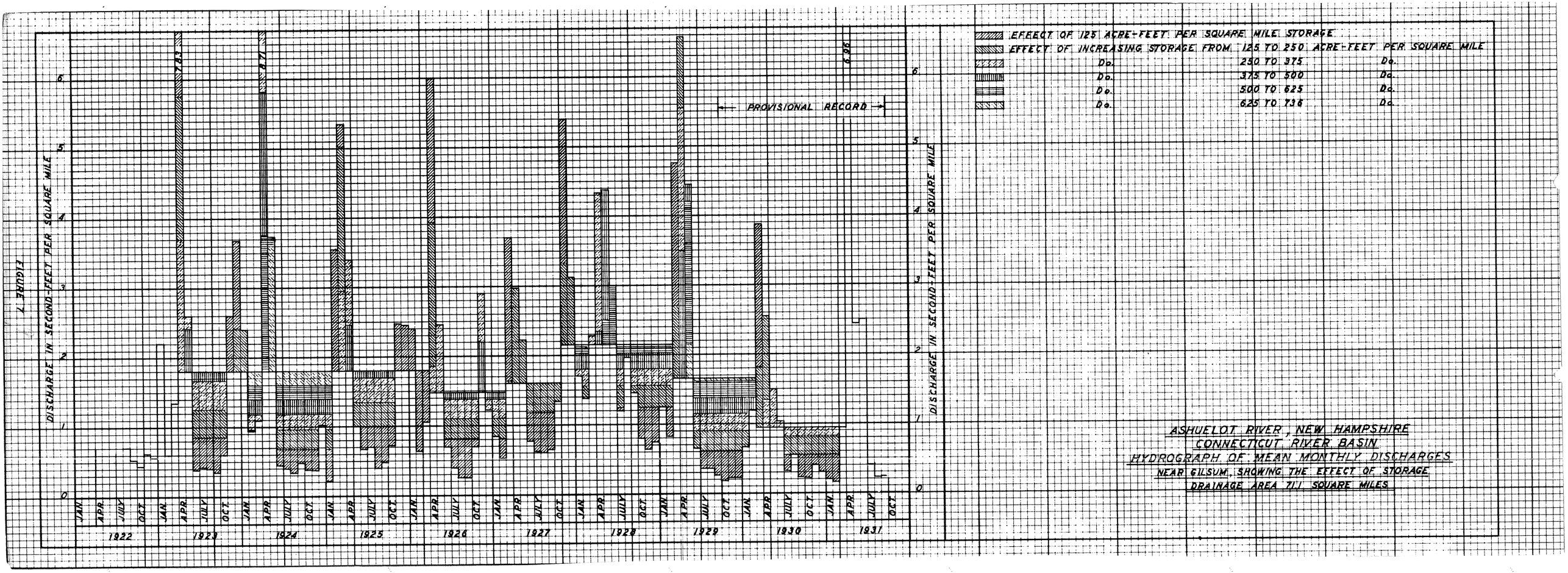

EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQUARE MILE
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 736 Do.
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
7.83
8.71
6.96
JAN. APR. JULY OCT.
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR GILSUM, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 71.1 SQUARE MILES

FIGURE 7

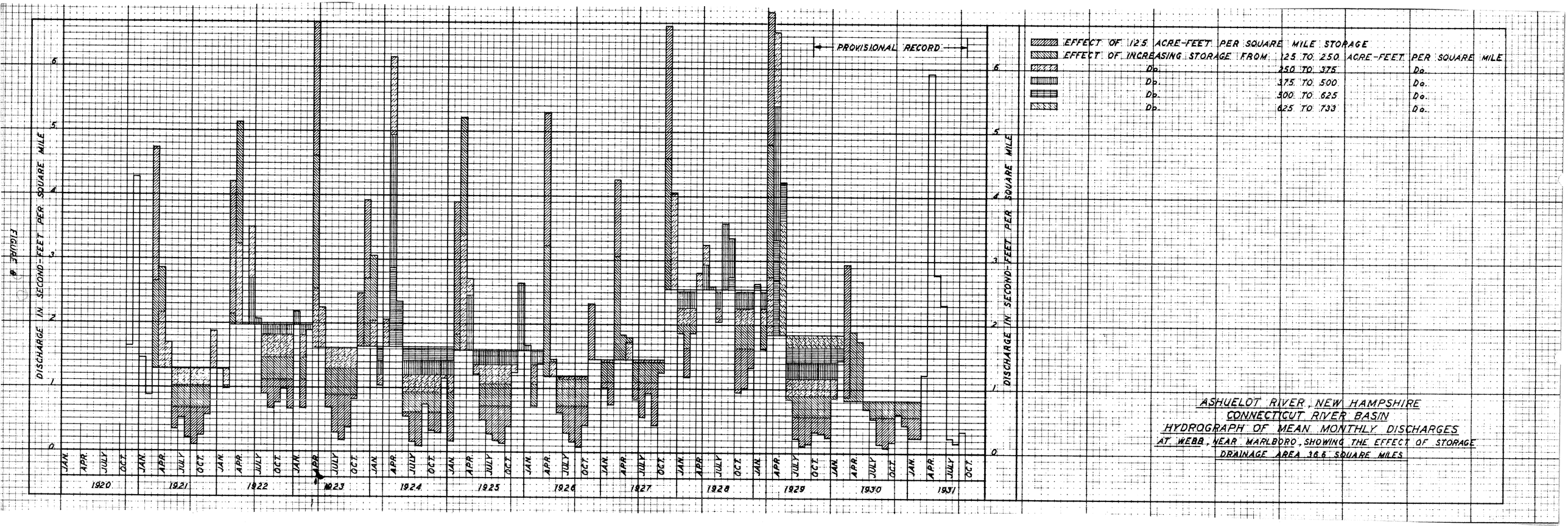

EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQUARE MILE
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 733 Do.
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WEBB, NEAR MARLBORO, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 36.6 SQUARE MILES

FIGURE 6

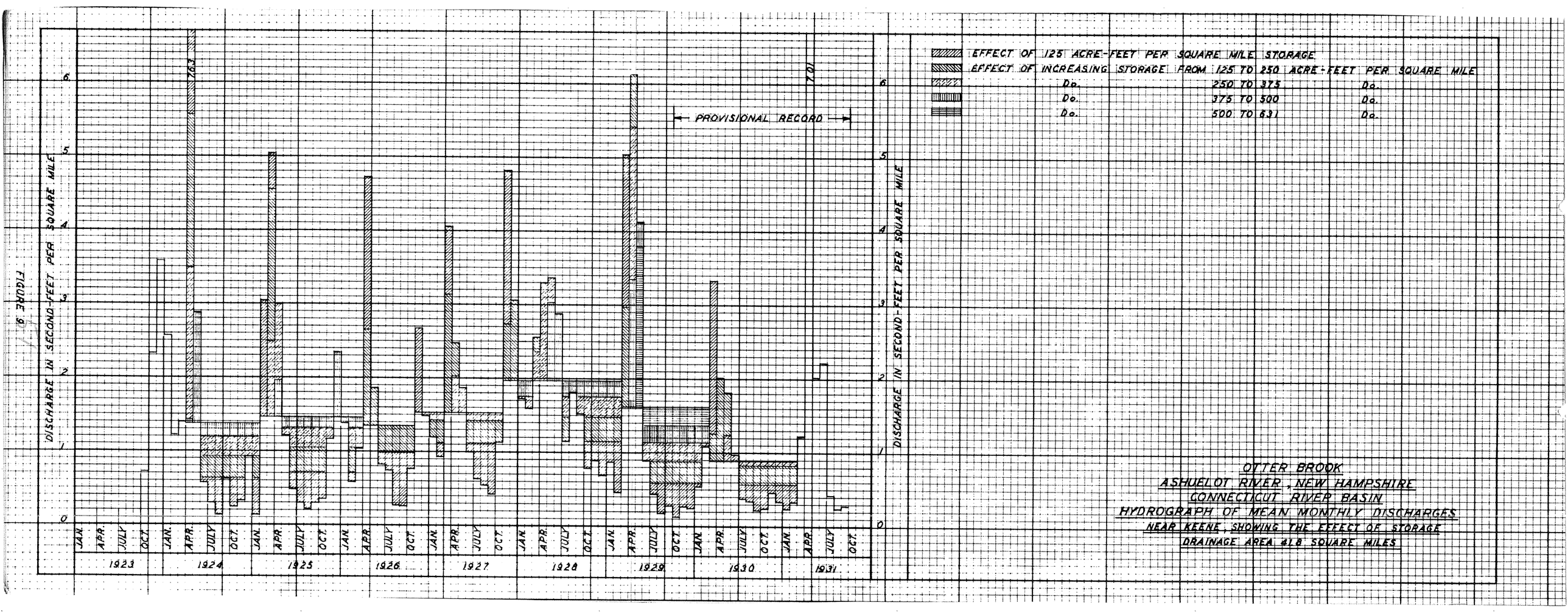
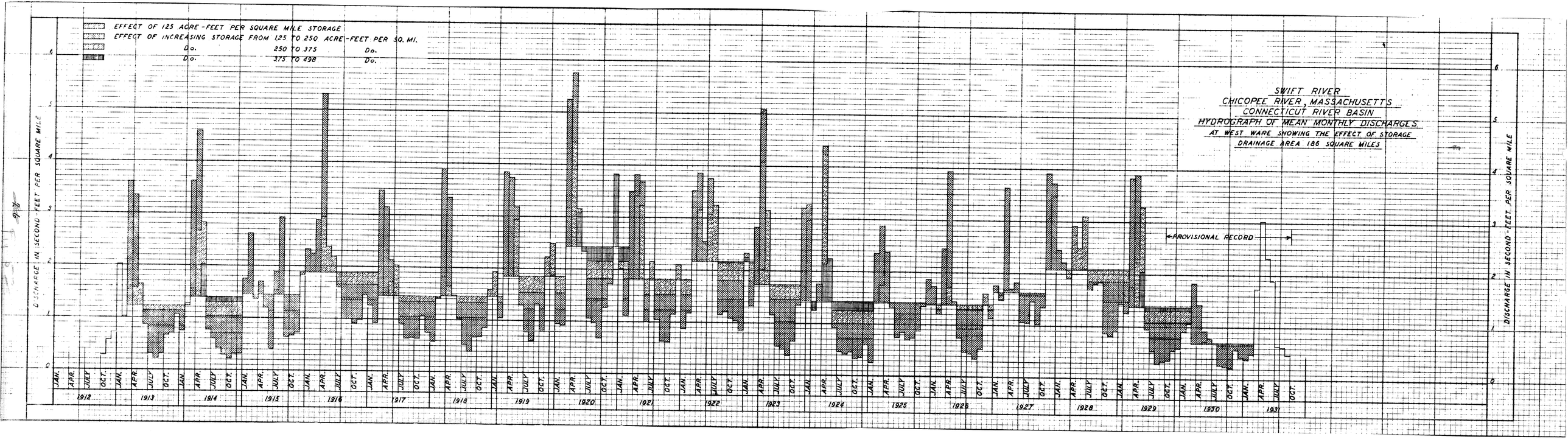
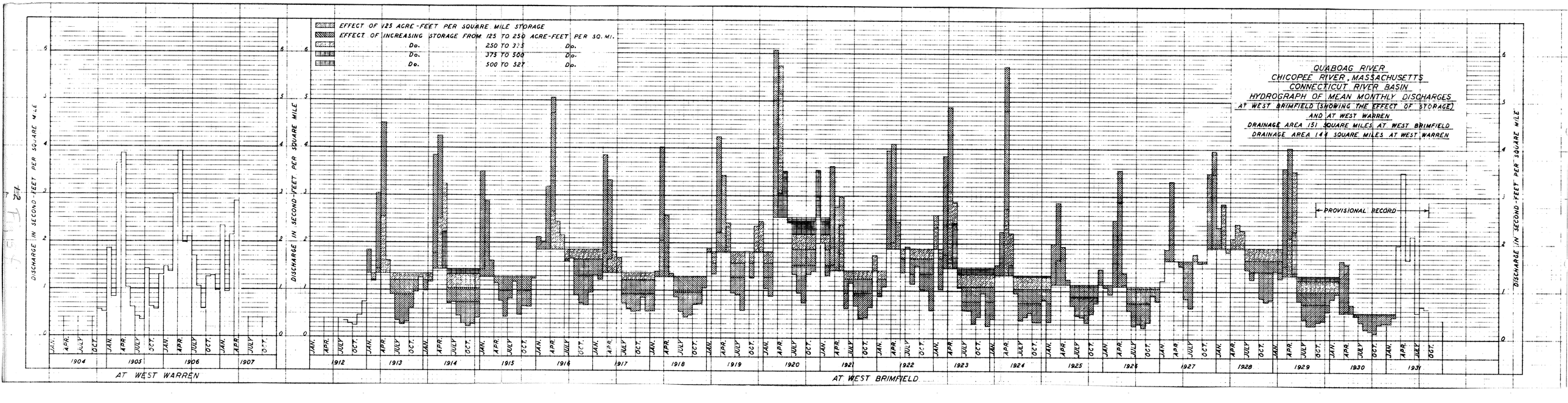
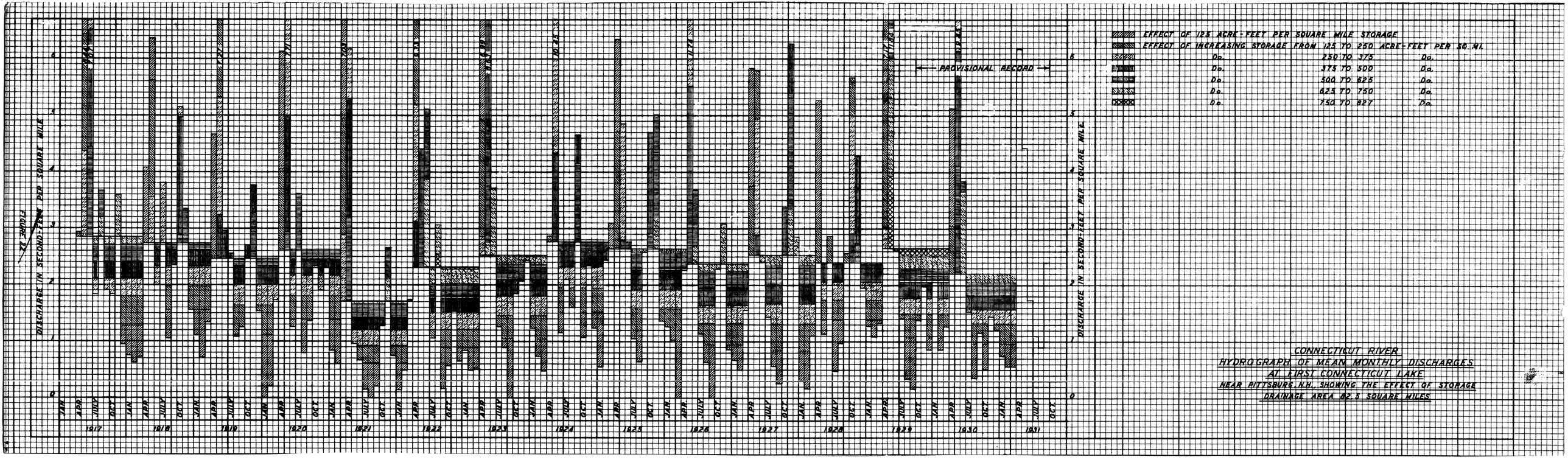

EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQUARE MILE
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 631 Do.
PROVISIONAL RECORD
26.3
7.01
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1923
1924
1925
1926
1927
1928
1929
1930
1931
OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR KEENE, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 418 SQUARE MILES

FIGURE 9


EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 498 Do.
SWIFT RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WEST WARE SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 186 SQUARE MILES
←PROVISIONAL RECORD→
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931

WARE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT GIBBS CROSSING SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 162 SQUARE MILES NEAR WARE
DRAINAGE AREA 139 SQUARE MILES AT GIBBS CROSSING
NEAR WARE AND AT COLDBROOK
DRAINAGE AREA 98.2 SQUARE MILES AT COLDBROOK
DISCHARGE IN SECOND-FEET PER SQUARE MILE
PROVISIONAL RECORD
RECORD INTERRUPTED
NEAR WARE
AT GIBBS CROSSING
AT COLDBROOK
EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MILE
250 TO 375
375 TO 487


QUABOAG RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WEST BRIMFIELD (SHOWING THE EFFECT OF STORAGE)
AND AT WEST WARREN
DRAINAGE AREA 151 SQUARE MILES AT WEST BRIMFIELD
DRAINAGE AREA 14.4 SQUARE MILES AT WEST WARREN
EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 527 Do.
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
AT WEST WARREN
AT WEST BRIMFIELD
1904
1905
1906
1907
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931



CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT FIRST CONNECTICUT LAKE
NEAR PITTSBURG, N.H. SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 82.5 SQUARE MILES

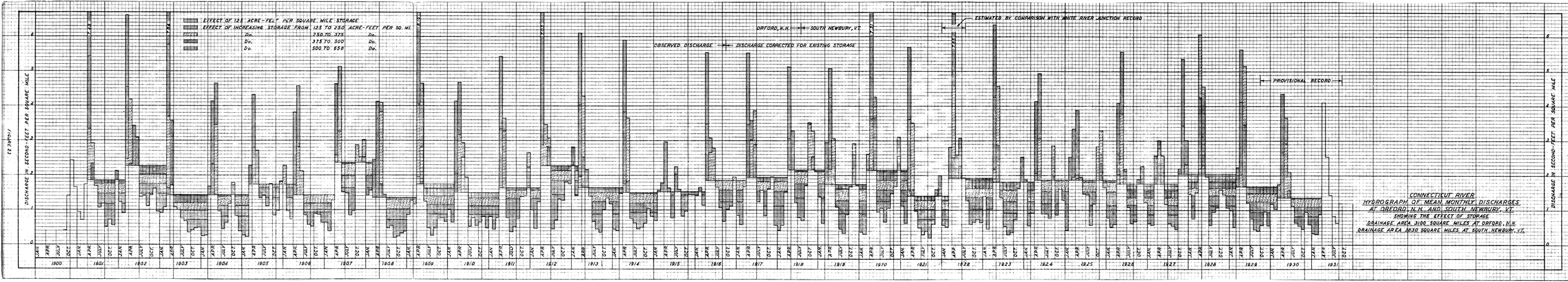
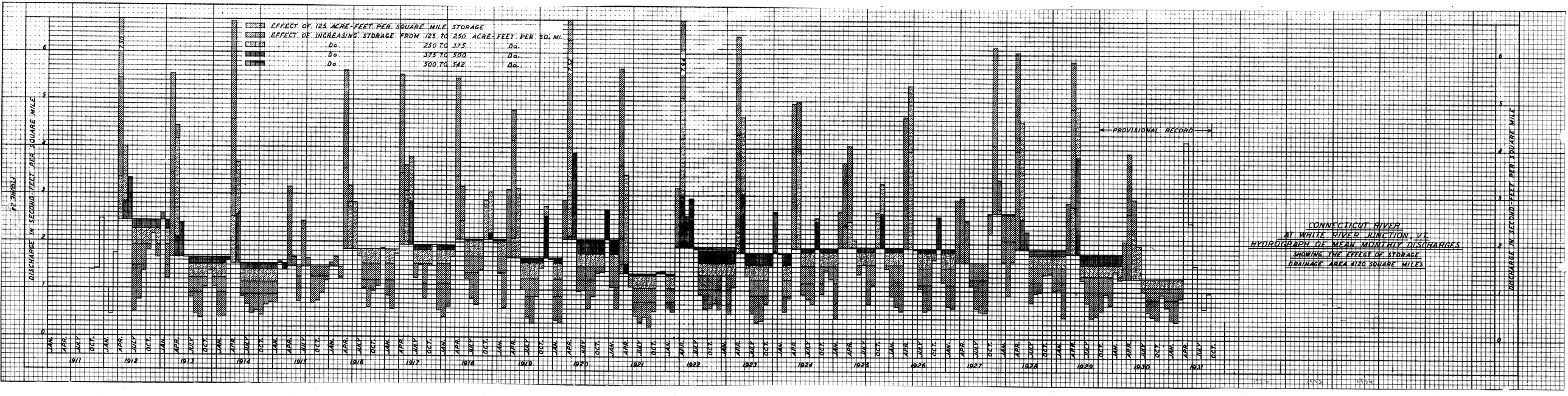


FIGURE 23

CONNECTICUT RIVER
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 3100 SQUARE MILES AT ORFORD, N.H.
DRAINAGE AREA 3830 SQUARE MILES AT SOUTH NEWBURY, VT.



CONNECTICUT RIVER
AT WHITE RIVER JUNCTION, VT.
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 4120 SQUARE MILES

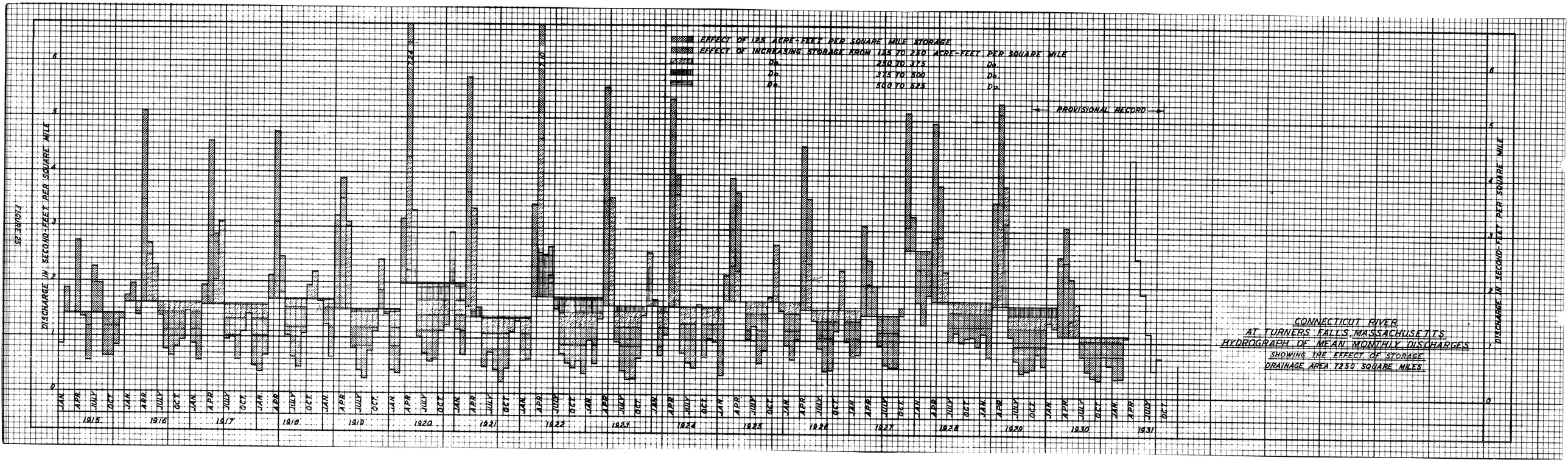
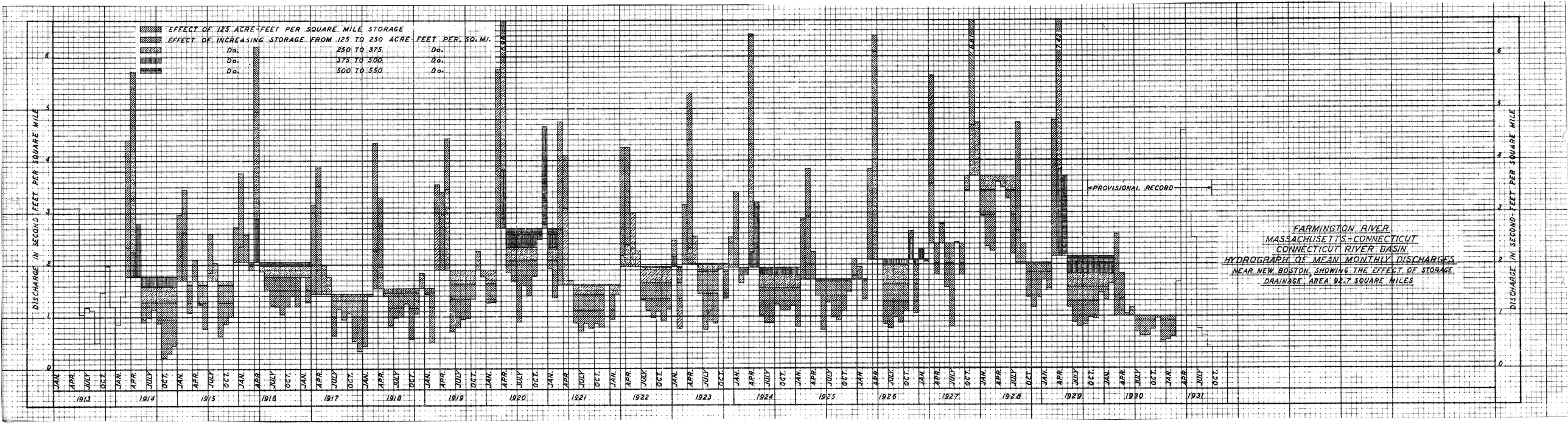

EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQUARE MILE
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 525 Do.
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
CONNECTICUT RIVER
AT TURNERS FALLS, MASSACHUSETTS
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 7250 SQUARE MILES

FIGURE 25


EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 550 Do.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
PROVISIONAL RECORD
FARMINGTON RIVER
MASSACHUSETTS-CONNECTICUT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR NEW BOSTON, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 92.7 SQUARE MILES

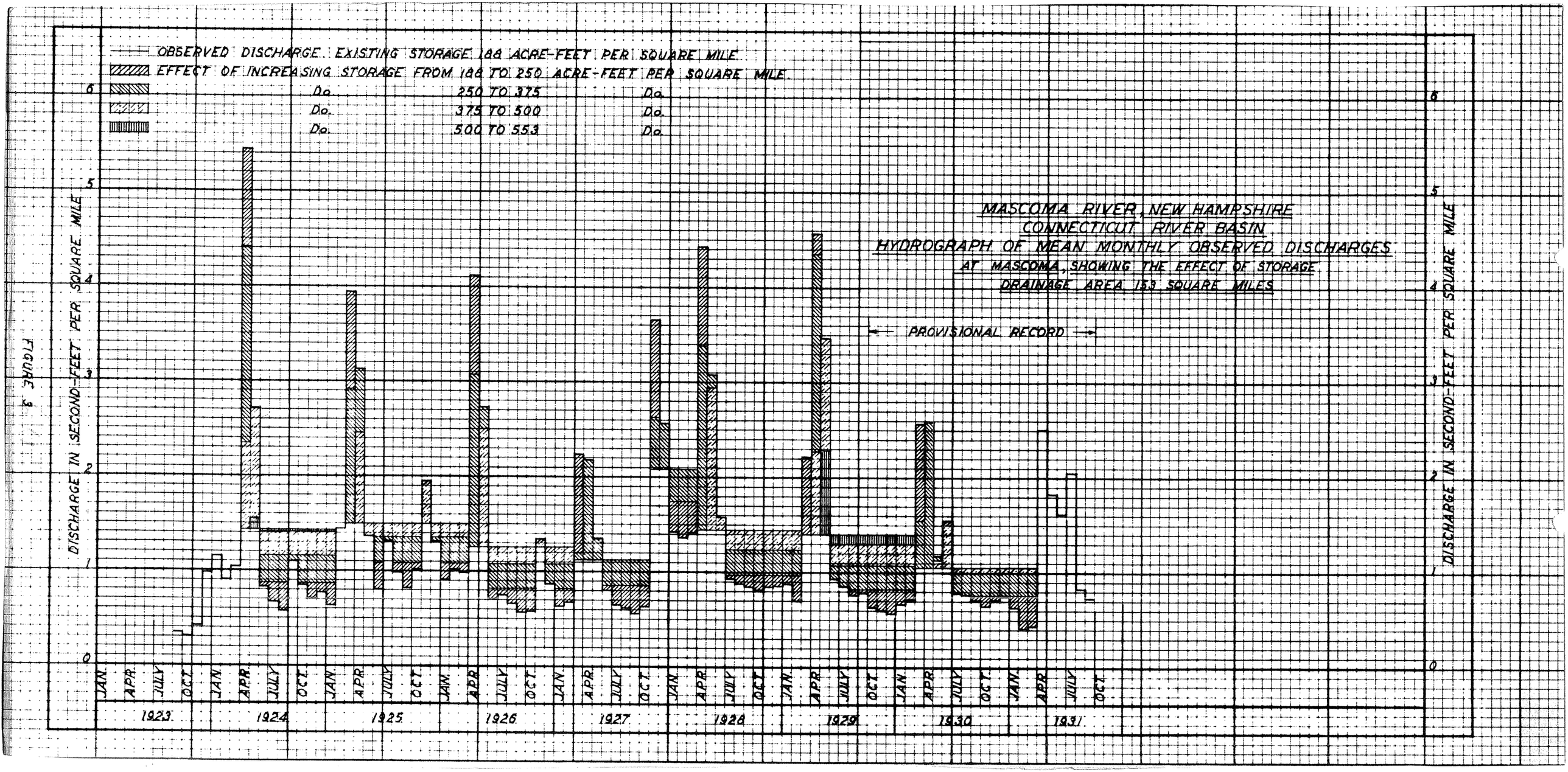
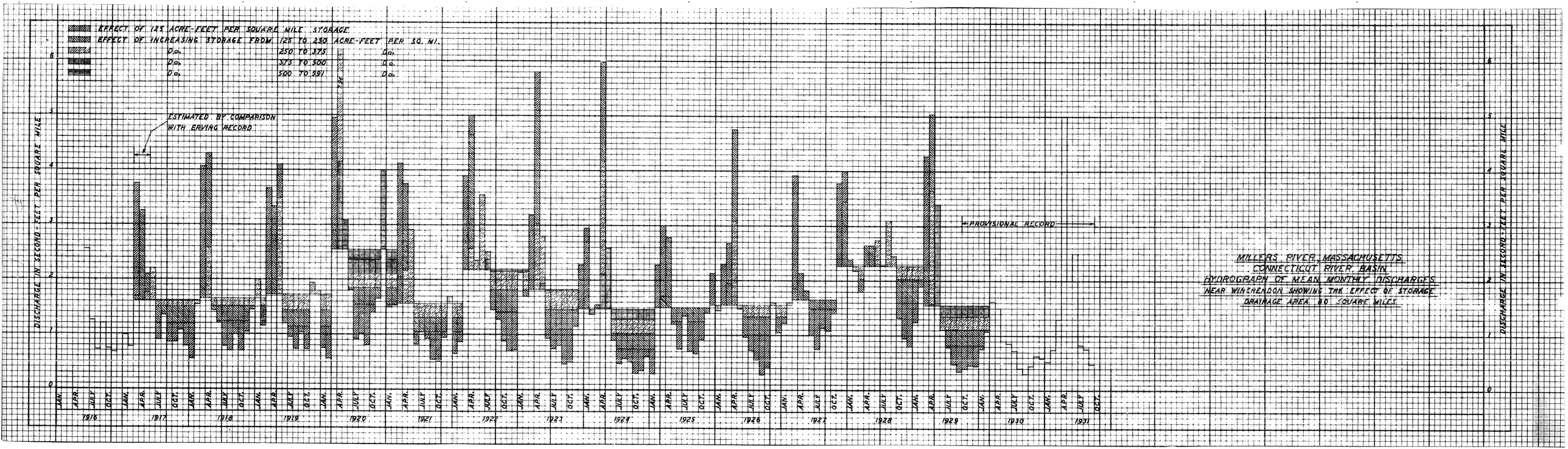
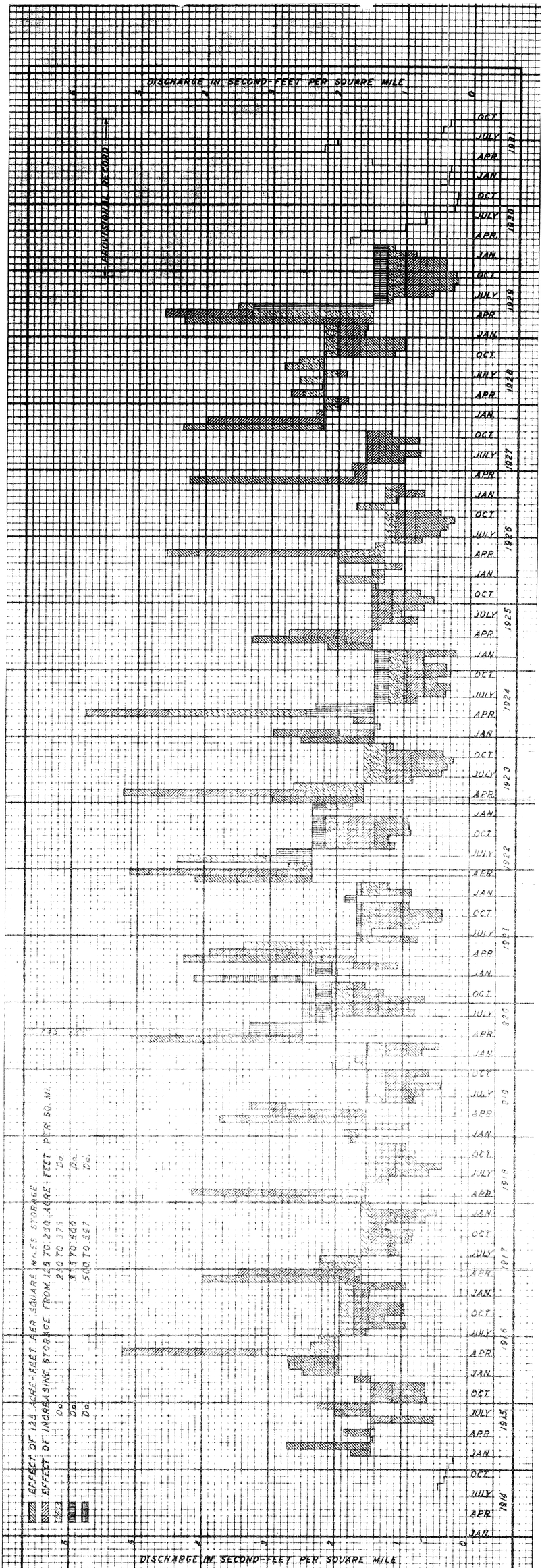

OBSERVED DISCHARGE. EXISTING STORAGE 188 ACRE-FEET PER SQUARE MILE
EFFECT OF INCREASING STORAGE FROM 188 TO 250 ACRE-FEET PER SQUARE MILE
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 553 Do.
MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY OBSERVED DISCHARGES
AT MASCOMA, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 153 SQUARE MILES
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1923
1924
1925
1926
1927
1928
1929
1930
1931

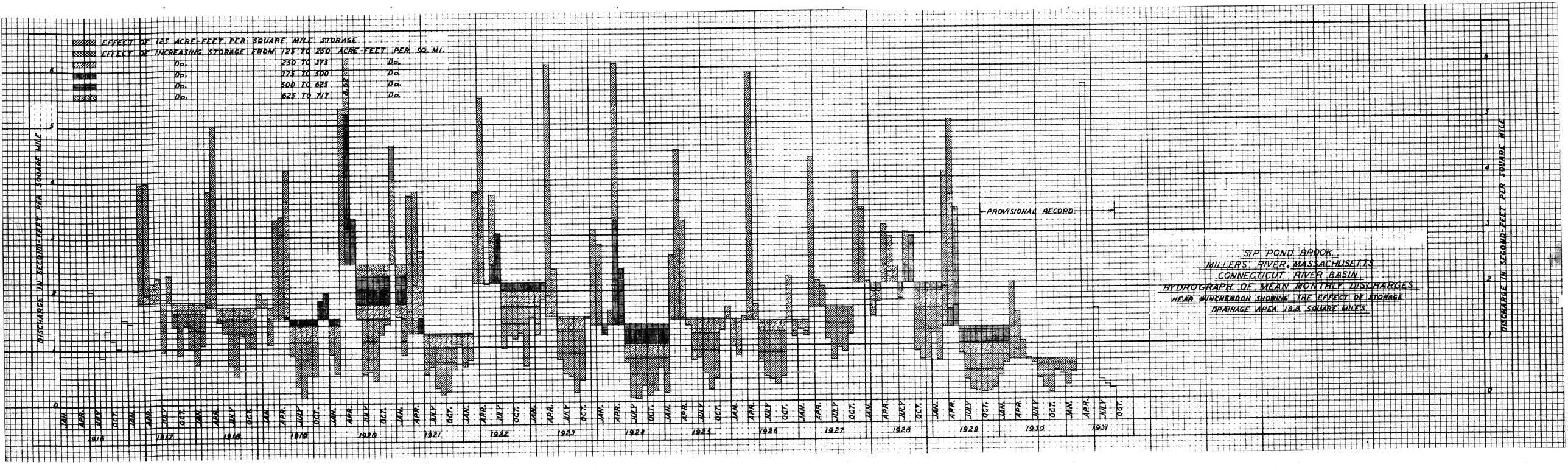
FIGURE 3

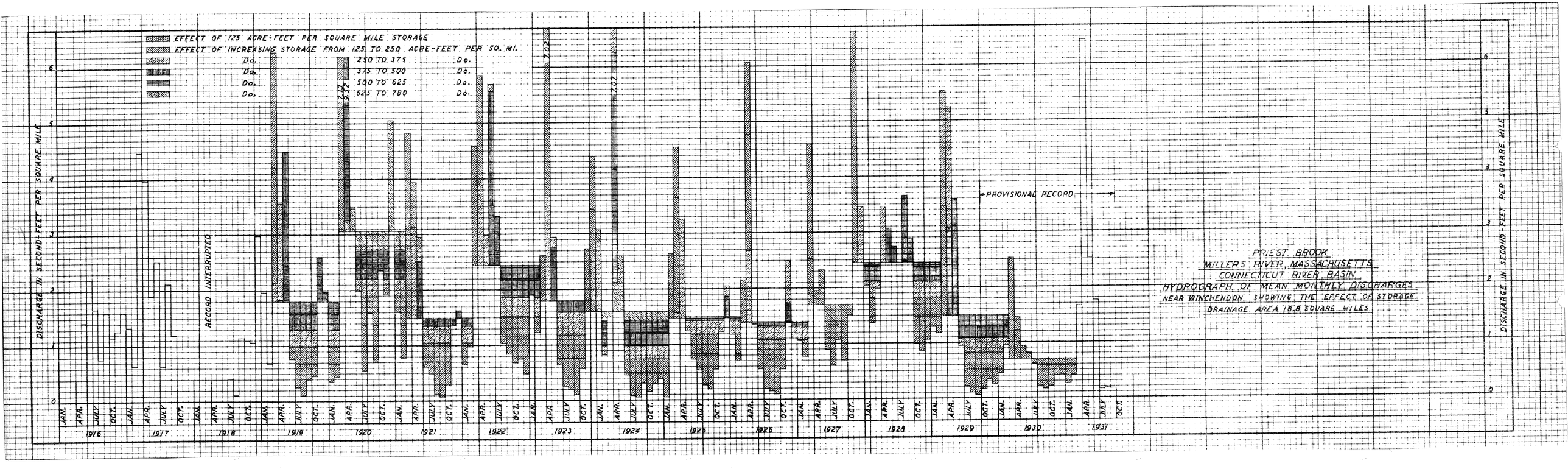


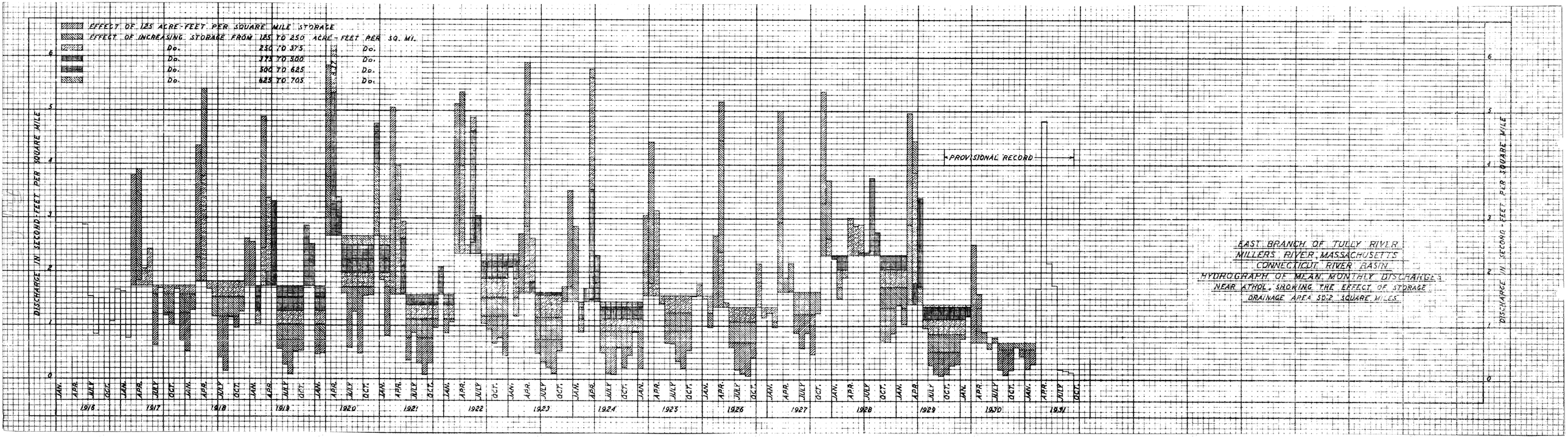
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR WINCHENDON SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 80 SQUARE MILES

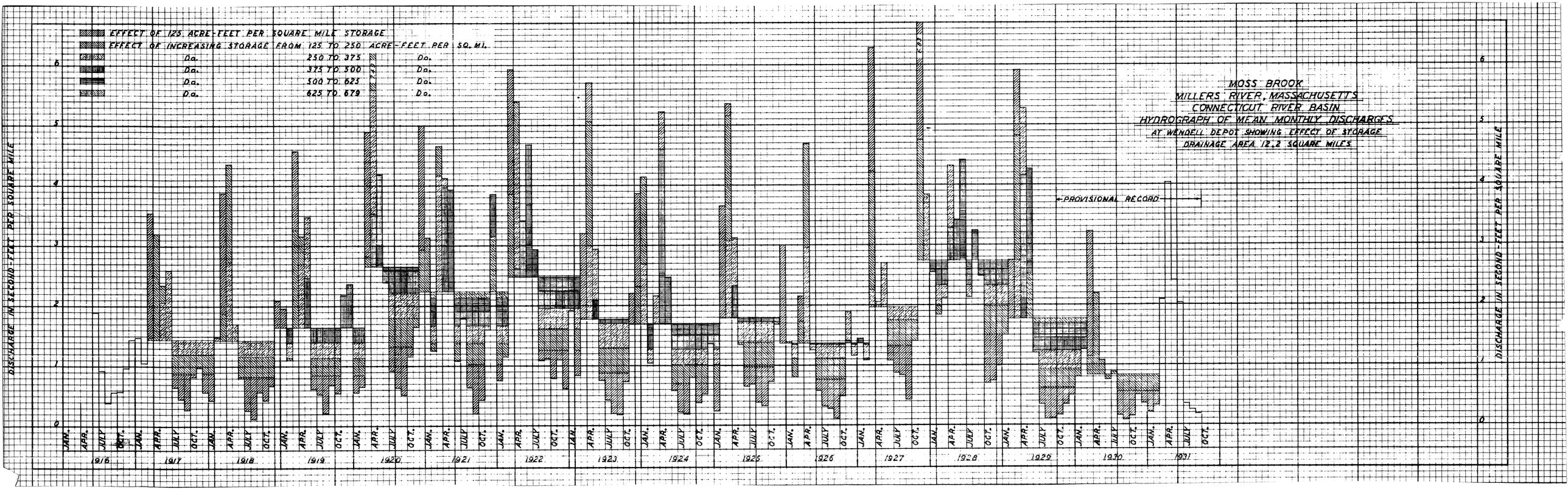


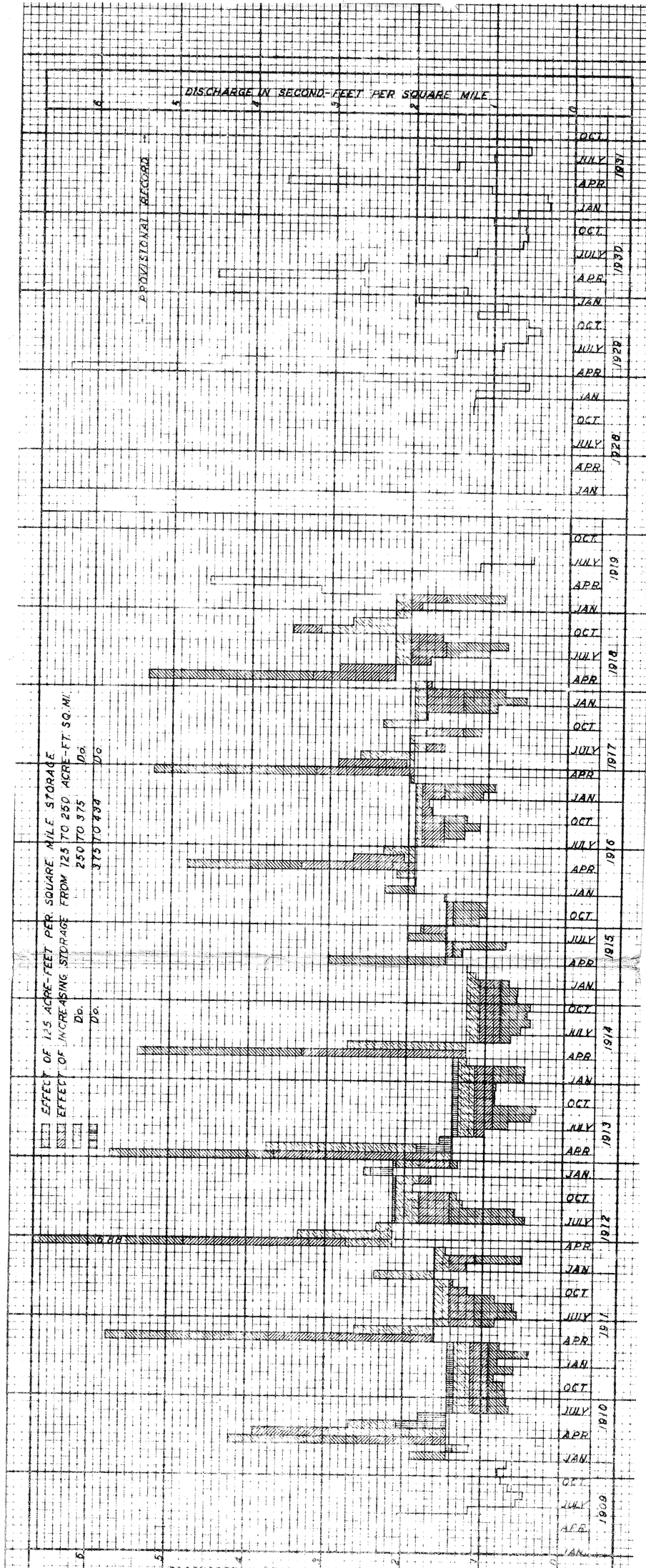
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT ERVING SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 372 SQUARE MILES


EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 717 Do.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
PROVISIONAL RECORD
SIP POND BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR WINCHENDON SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 18.8 SQUARE MILES


EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 780 Do.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
RECORD INTERRUPTED
PROVISIONAL RECORD
7.02
7.07
JAN. APR. JULY OCT.
1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931
PRIEST BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR WINCHENDON, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 18.8 SQUARE MILES

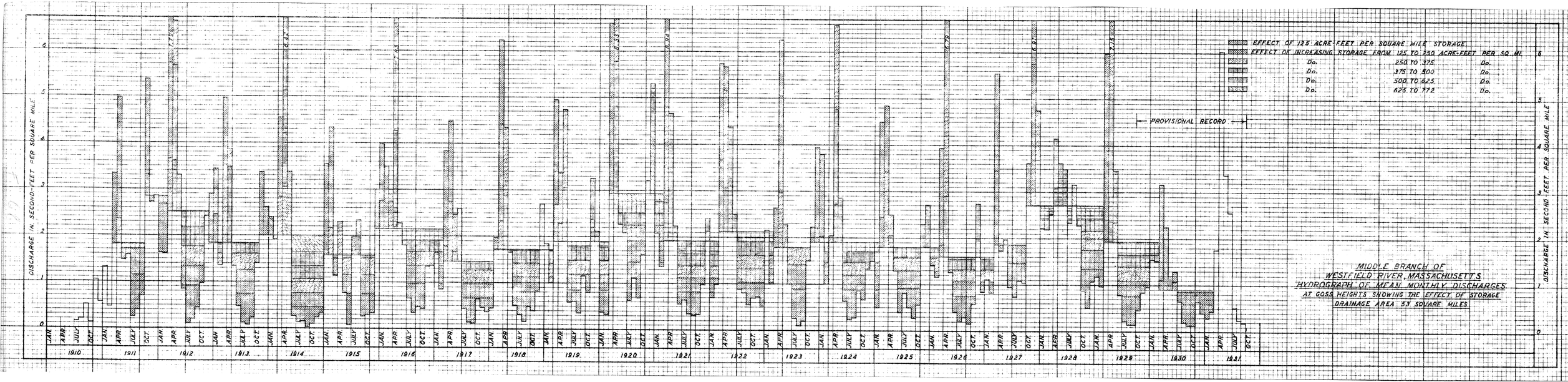

EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 705 Do.
DISCHARGE IN SECOND-FEET PER SQUARE MILE
PROVISIONAL RECORD
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
EAST BRANCH OF TULLY RIVER
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
NEAR ATHOL, SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 50.2 SQUARE MILES


EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 679 Do.
MOSS BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WENDELL DEPOT SHOWING EFFECT OF STORAGE
DRAINAGE AREA 12.2 SQUARE MILES
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
0
1
2
3
4
5
6
JAN.
APR.
JULY
OCT.
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931

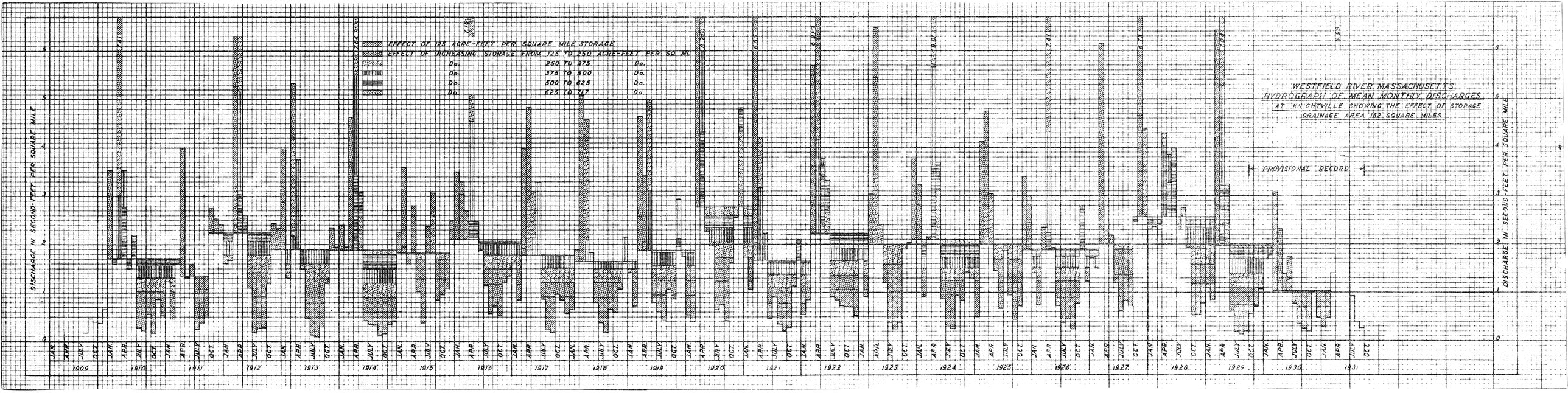


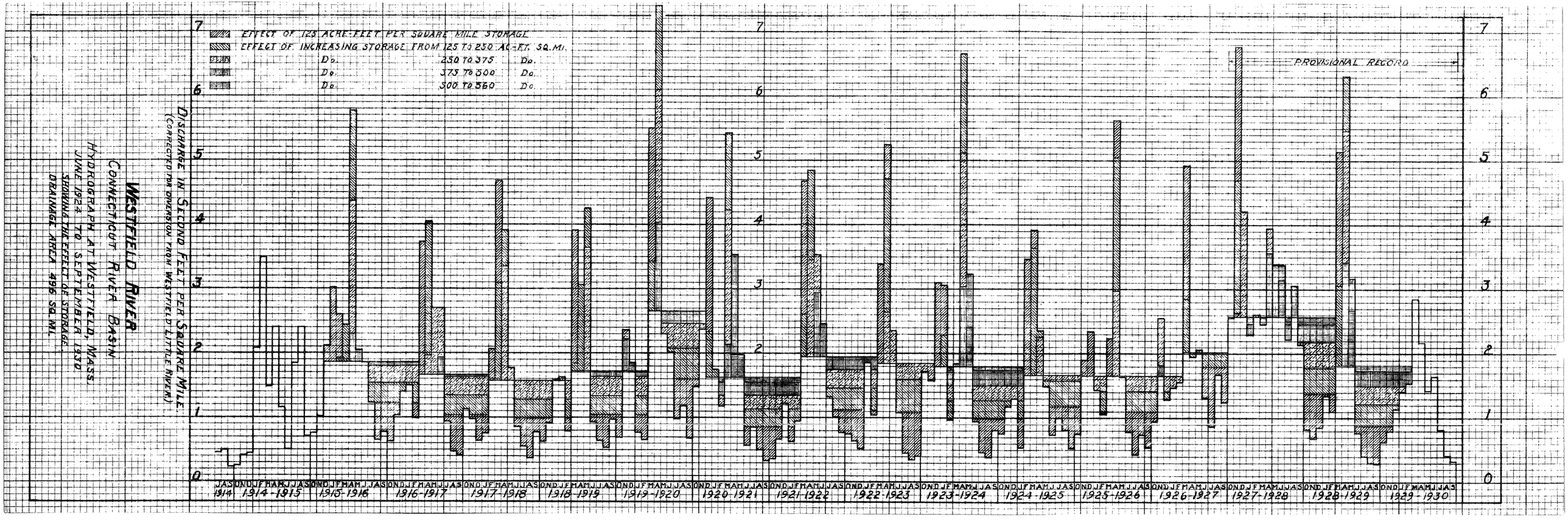
PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT PIERCE'S MILLS FOR PERIOD MAY 1908 - JULY 1919 AND
AT PASSUMPSIC FOR PERIOD NOV. 1920 - SEPT. 1921
SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA AT PASSUMPSIC 423 SQUARE MILES
DRAINAGE AREA AT PIERCE'S MILLS 237 SQUARE MILES

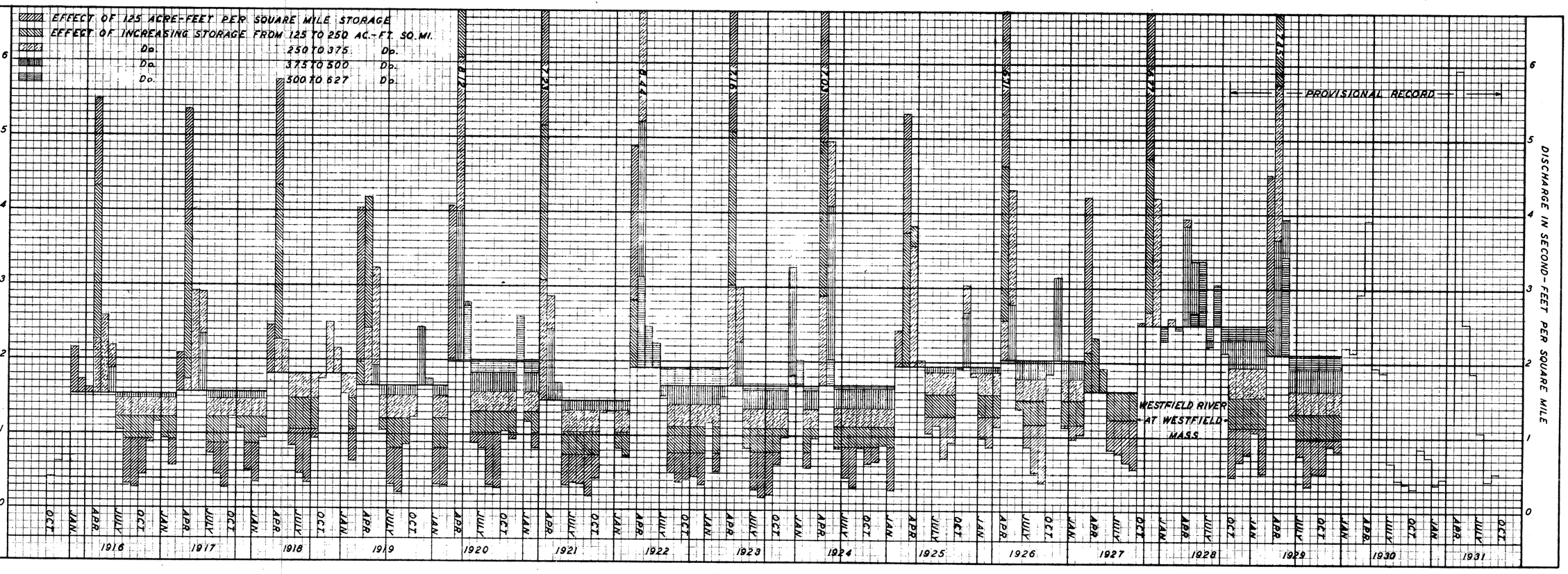
Plate 4



MIDDLE BRANCH OF WESTFIELD RIVER, MASSACHUSETTS
HYDROGRAPH OF MEAN MONTHLY DISCHARGES AT GOSS HEIGHTS SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 53 SQUARE MILES


WESTFIELD RIVER MASSACHUSETTS
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT KNIGHTVILLE SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 162 SQUARE MILES
EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET PER SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 625 Do.
Do. 625 TO 717 Do.
PROVISIONAL RECORD
DISCHARGE IN SECOND-FEET PER SQUARE MILE
1909
1910
1911
1912
1913
1914
1915
1916
1917
1918
1919
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931


WESTFIELD RIVER
CONNECTICUT RIVER BASIN
HYDROGRAPH AT WESTFIELD, MASS.
JUNE 1914 TO SEPTEMBER 1930
SHOWING THE EFFECT OF STORAGE.
DRAINAGE AREA 496 SQ. MI.
DISCHARGE IN SECOND FEET PER SQUARE MILE.
(CORRECTED FOR DIVERSION FROM WESTFIELD LITTLE RIVER)
EFFECT OF 125 ACRE-FEET PER SQUARE MILE STORAGE
EFFECT OF INCREASING STORAGE FROM 125 TO 250 ACRE-FEET SQ. MI.
Do. 250 TO 375 Do.
Do. 375 TO 500 Do.
Do. 500 TO 560 Do.
PROVISIONAL RECORD
0
1
2
3
4
5
6
7
J A S O N D J F M A M J J A S
1914
1914-1915
1915-1916
1916-1917
1917-1918
1918-1919
1919-1920
1920-1921
1921-1922
1922-1923
1923-1924
1924-1925
1925-1926
1926-1927
1927-1928
1928-1929
1929-1930



WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
HYDROGRAPH OF MEAN MONTHLY DISCHARGES
AT WEST HARTFORD SHOWING THE EFFECT OF STORAGE
DRAINAGE AREA 687 SQUARE MILES

FIGURE 4

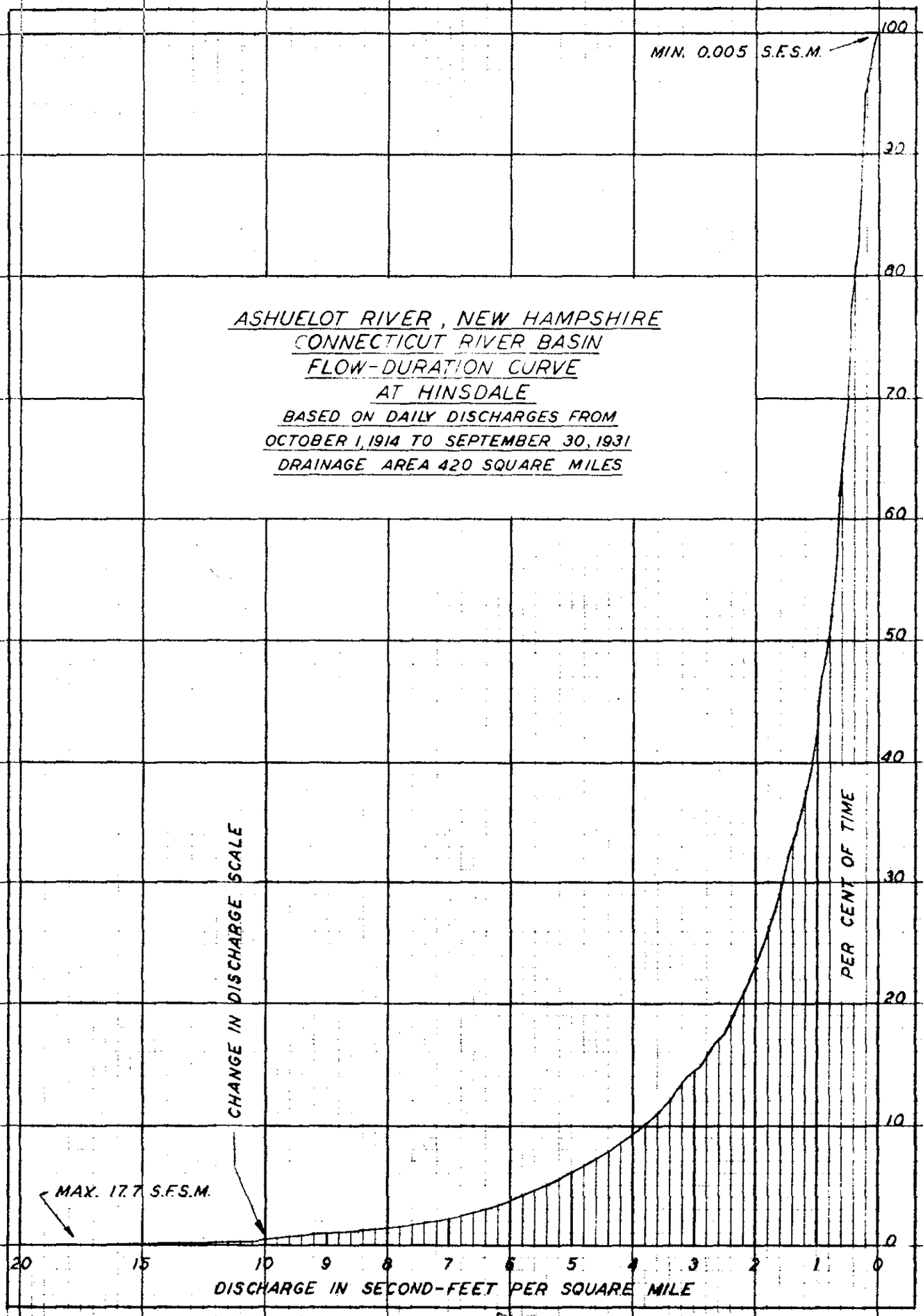

ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT HINSDALE
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1914 TO SEPTEMBER 30, 1931
DRAINAGE AREA 420 SQUARE MILES
MIN. 0.005 S.F.S.M.
MAX. 17.7 S.F.S.M.
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
20
15
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 16

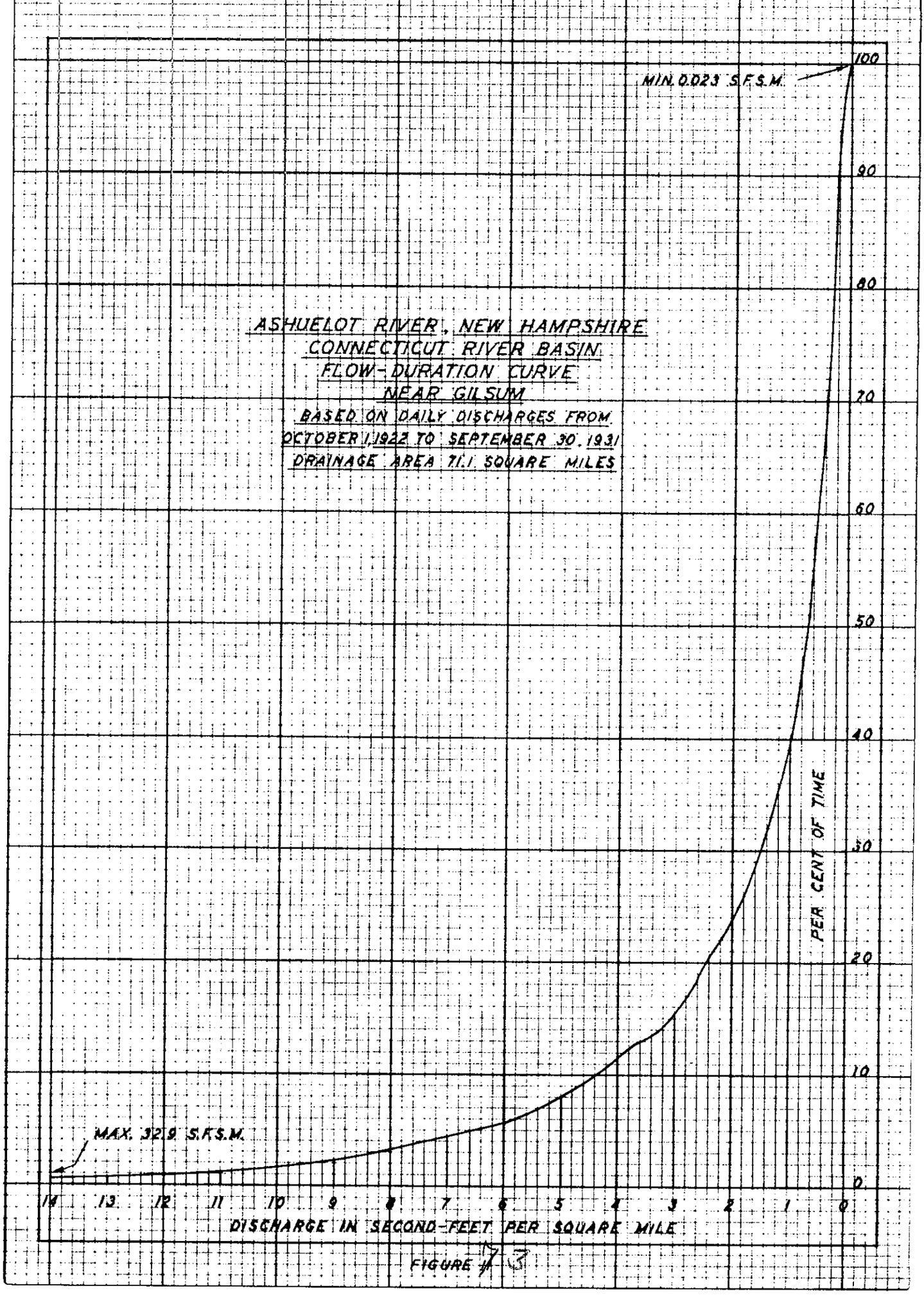

MIN. 0.023 S.F.S.M.
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR GILSUM
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1922 TO SEPTEMBER 30, 1931
DRAINAGE AREA 71.1 SQUARE MILES
MAX. 32.9 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 17

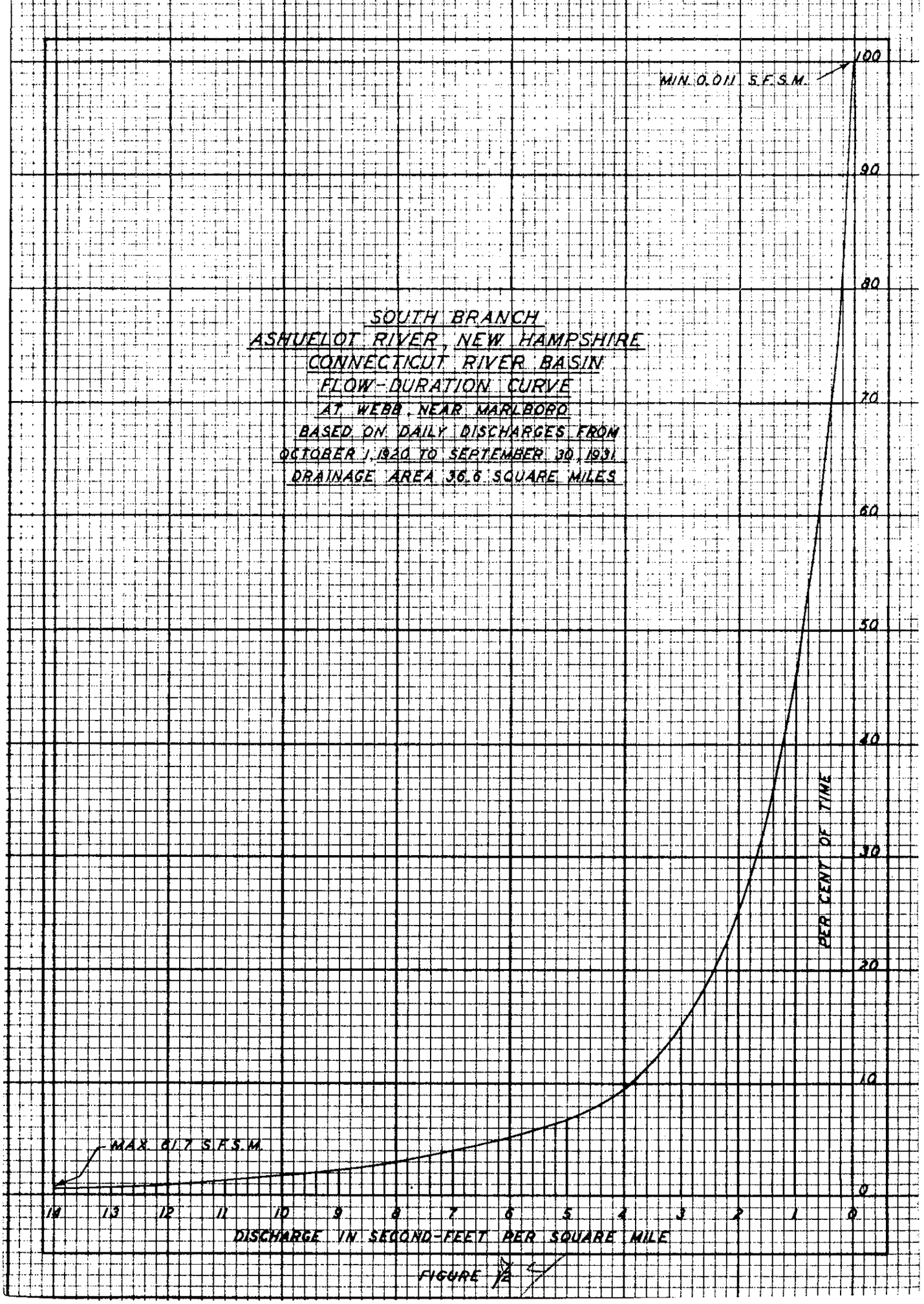

SOUTH BRANCH
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT WEBB, NEAR MARLBORO
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1920 TO SEPTEMBER 30, 1931
DRAINAGE AREA 36.6 SQUARE MILES
MIN. 0.011 S.F.S.M.
MAX. 8.17 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 12

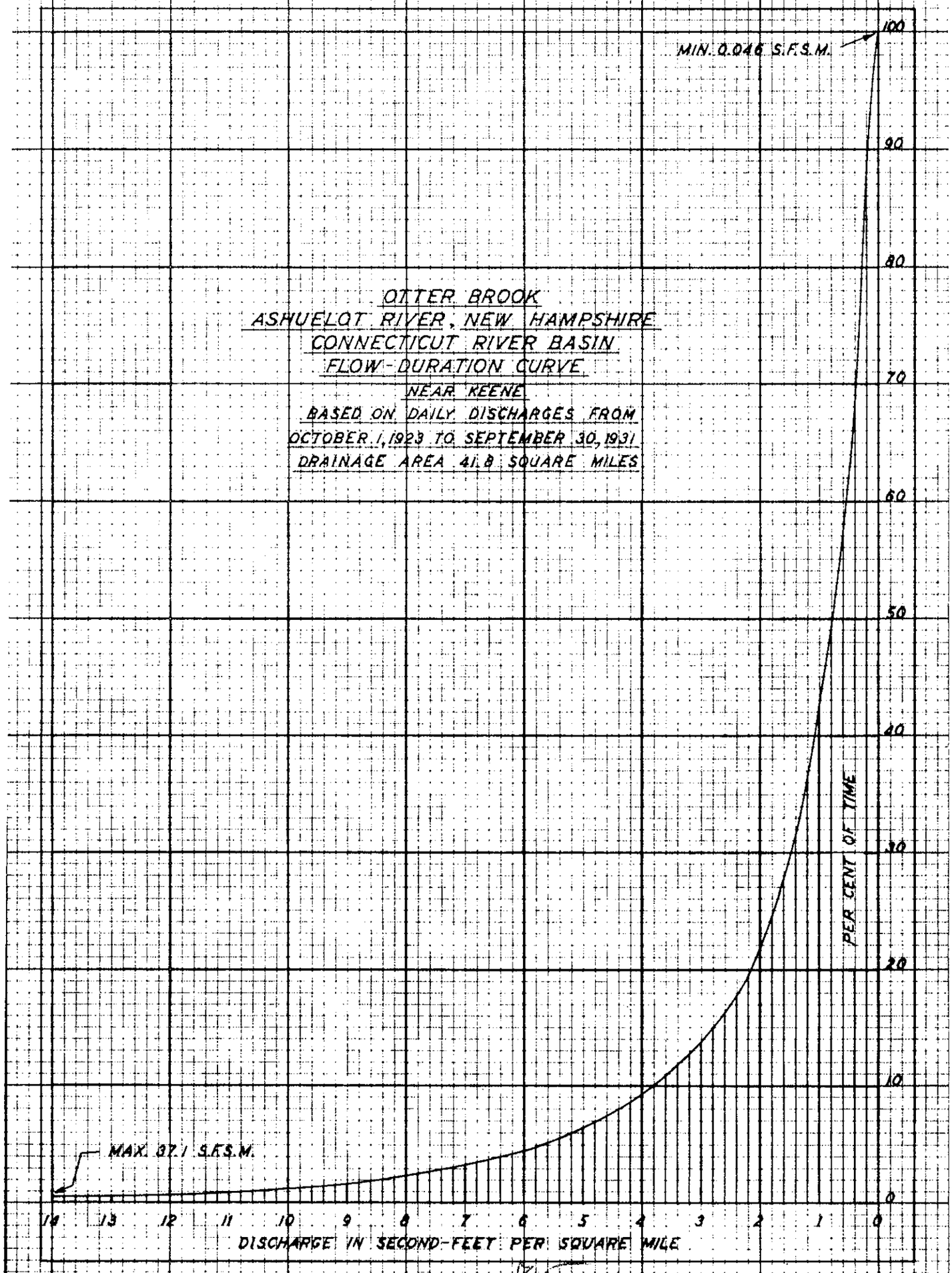
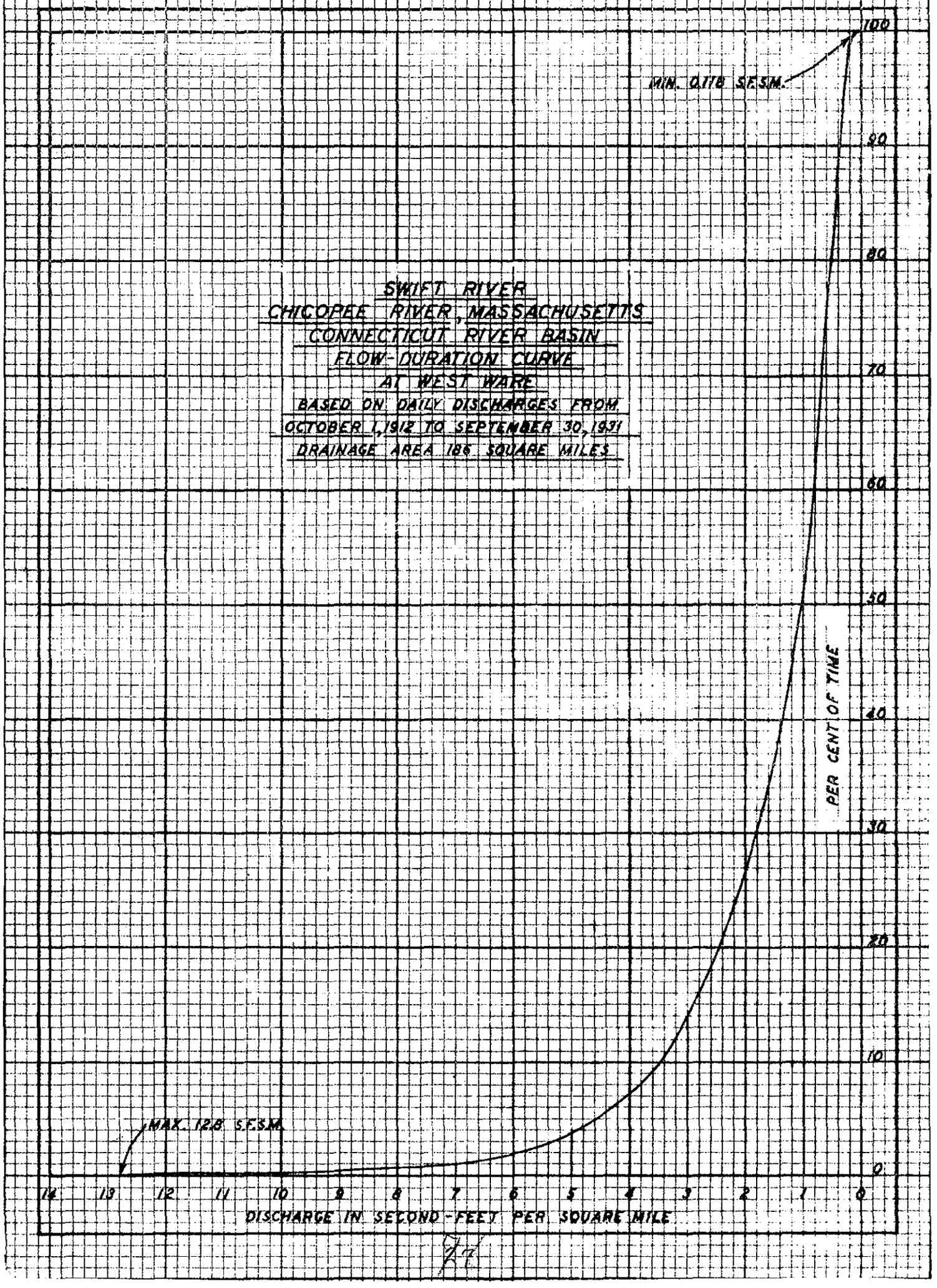
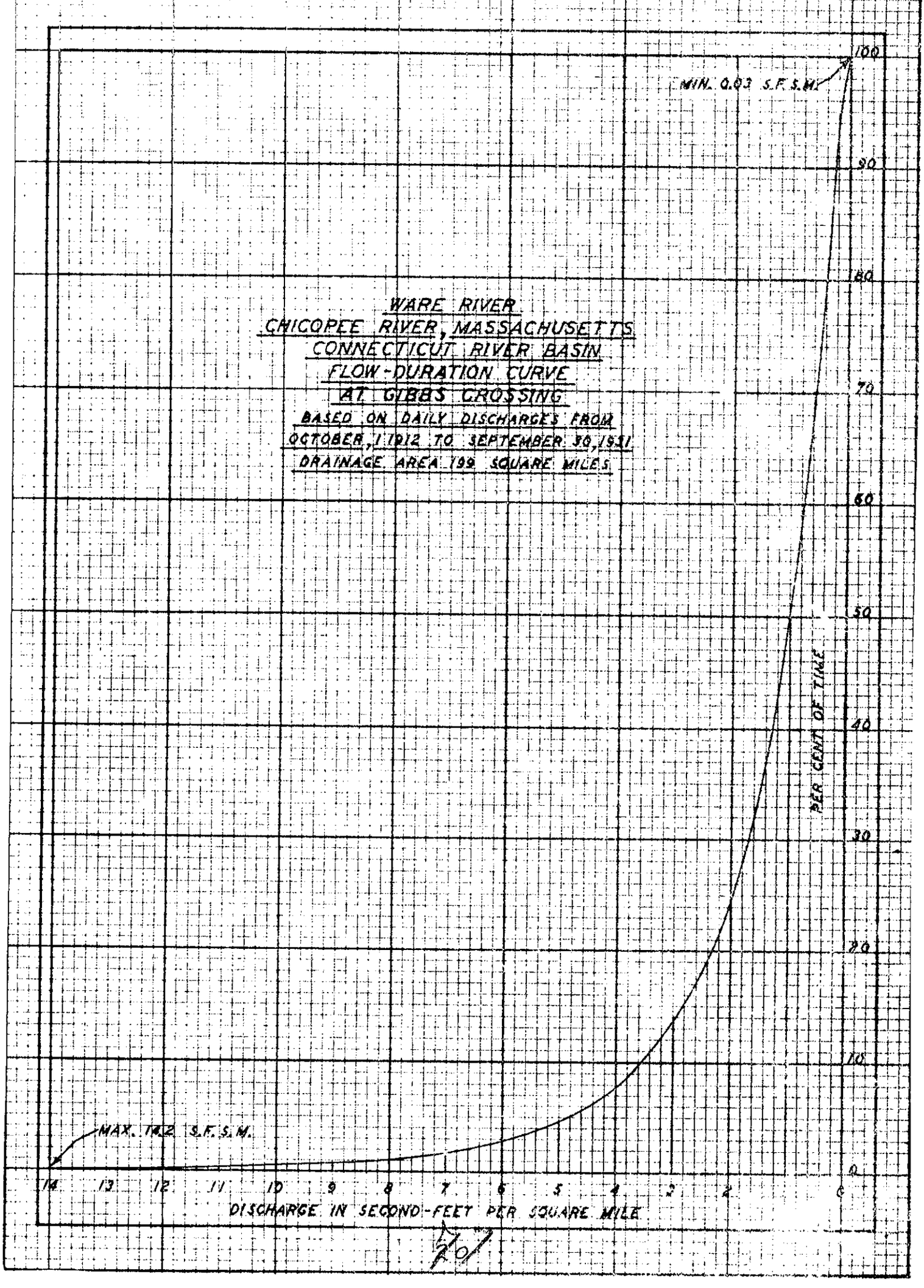
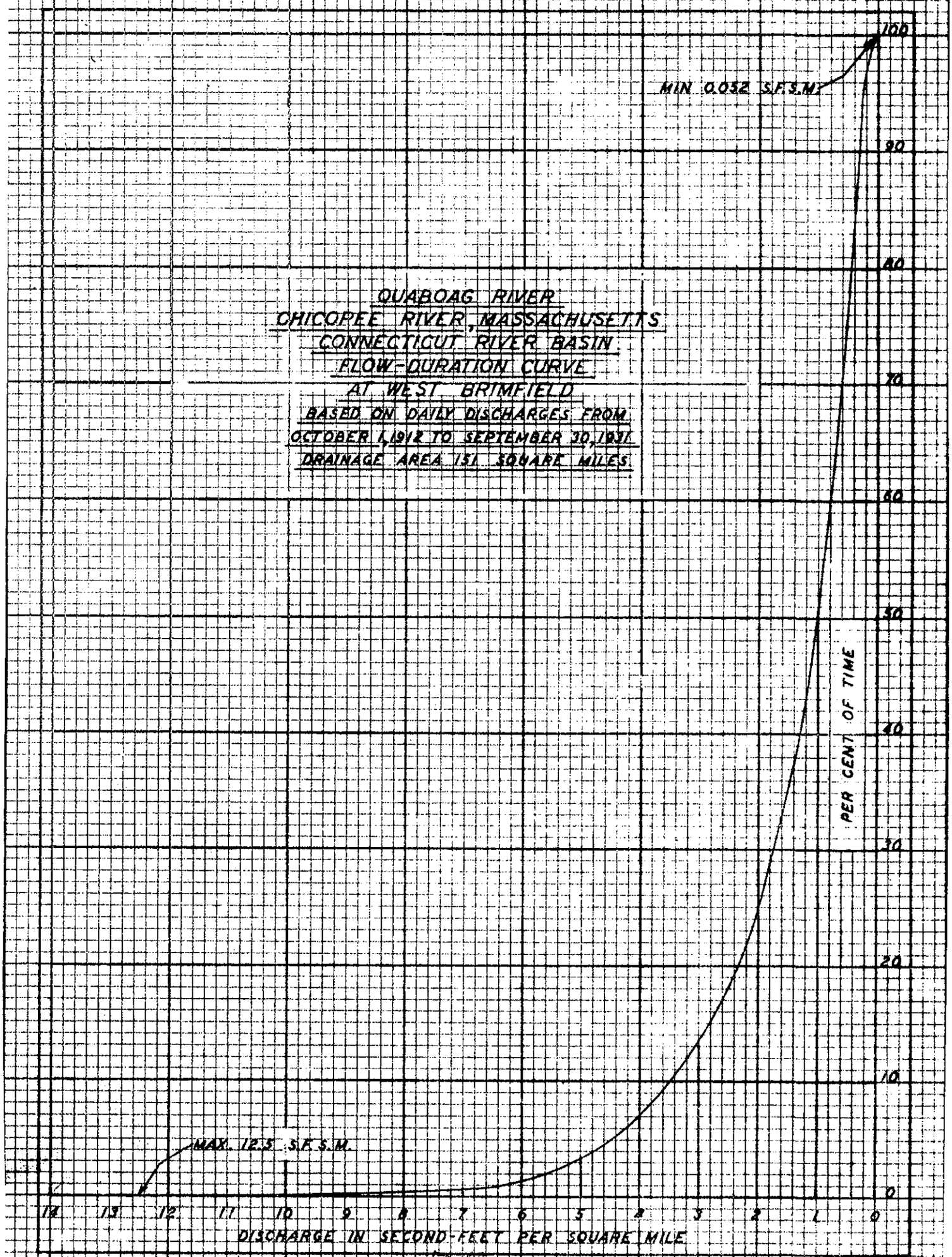

OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR KEENE
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1923 TO SEPTEMBER 30, 1931
DRAINAGE AREA 41.8 SQUARE MILES
MIN. 0.046 S.F.S.M.
MAX. 37.1 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 15


SWIFT RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT WEST WARE
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1912 TO SEPTEMBER 30, 1931
DRAINAGE AREA 186 SQUARE MILES
MIN. 0.118 S.F.S.M.
MAX. 12.8 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE


WARE RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT GIBBS CROSSING
BASED ON DAILY DISCHARGES FROM
OCTOBER, 1 1912 TO SEPTEMBER 30, 1931
DRAINAGE AREA 199 SQUARE MILES
MIN. 0.03 S.F.S.M.
MAX. 14.2 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE


QUABOAG RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT WEST BRIMFIELD
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1912 TO SEPTEMBER 30, 1937
DRAINAGE AREA 151 SQUARE MILES
MIN 0.052 S.F.S.M.
MAX. 12.5 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

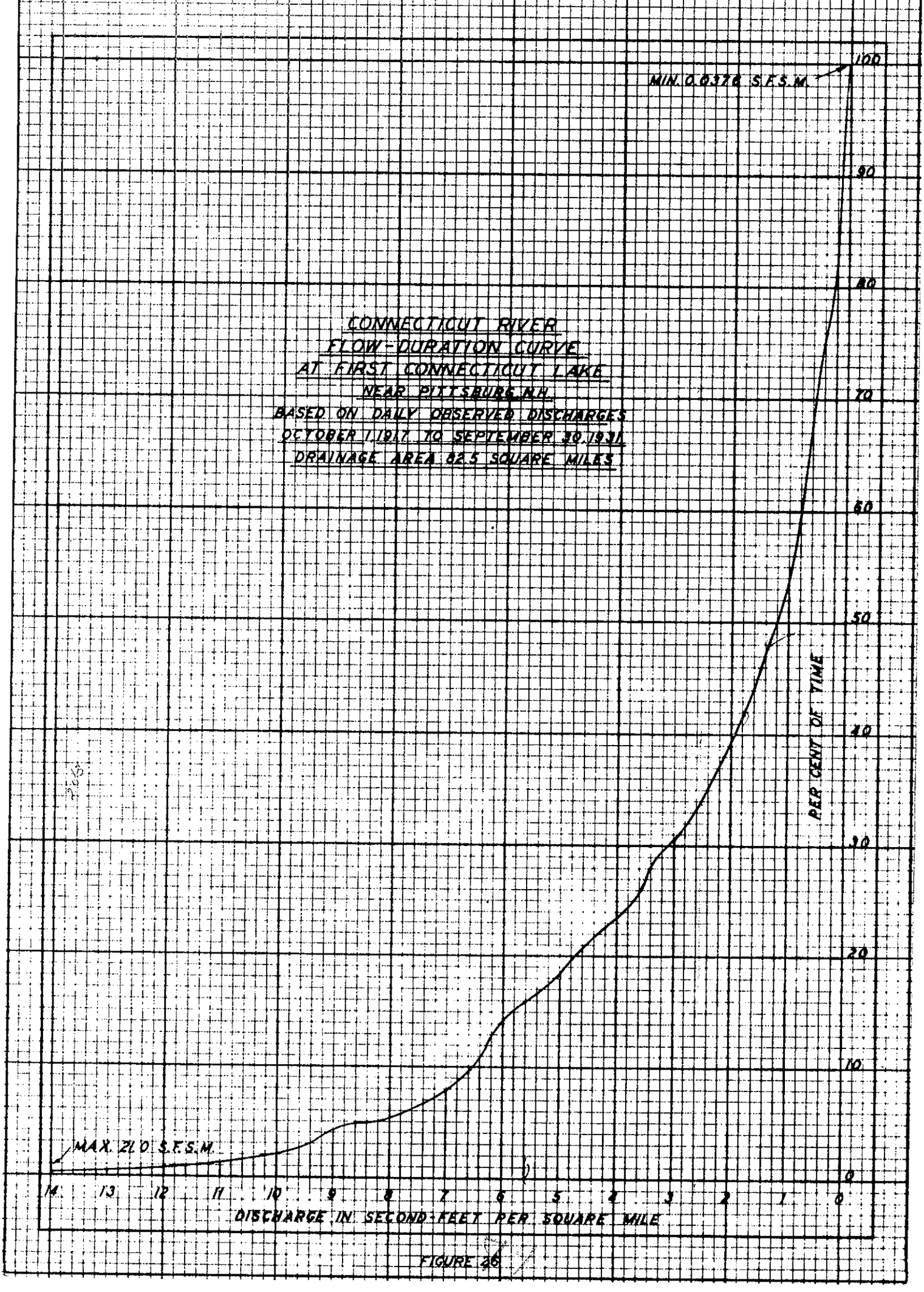

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT FIRST CONNECTICUT LAKE
NEAR PITTSBURG, N.H.
BASED ON DAILY OBSERVED DISCHARGES
OCTOBER 1, 1917 TO SEPTEMBER 30, 1931
DRAINAGE AREA 82.5 SQUARE MILES
MIN. 0.0376 S.F.S.M.
MAX. 21.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 26

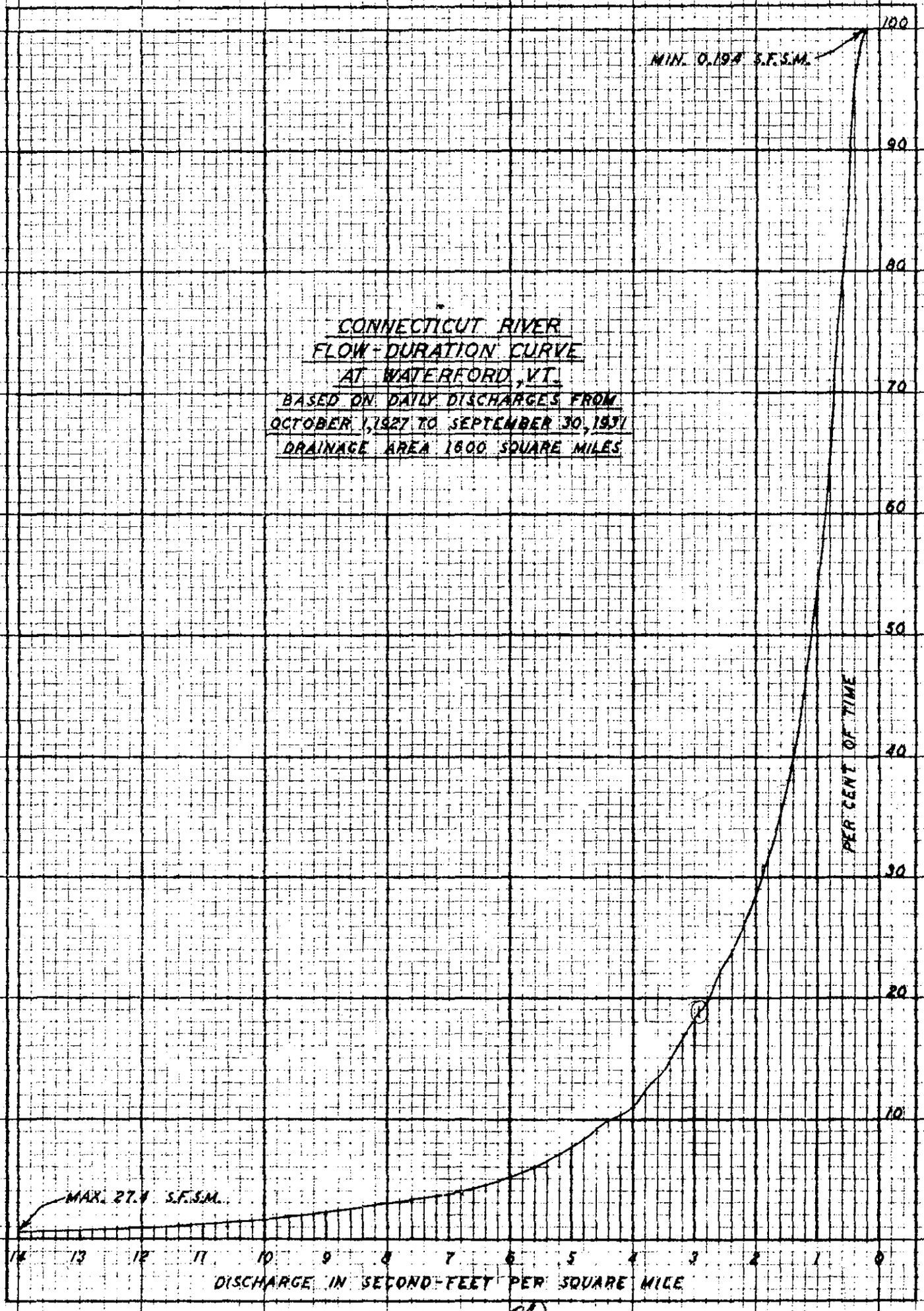

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT WATERFORD, VT.
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1927 TO SEPTEMBER 30, 1931
DRAINAGE AREA 1600 SQUARE MILES
MIN. 0.194 S.F.S.M.
MAX. 27.4 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 27

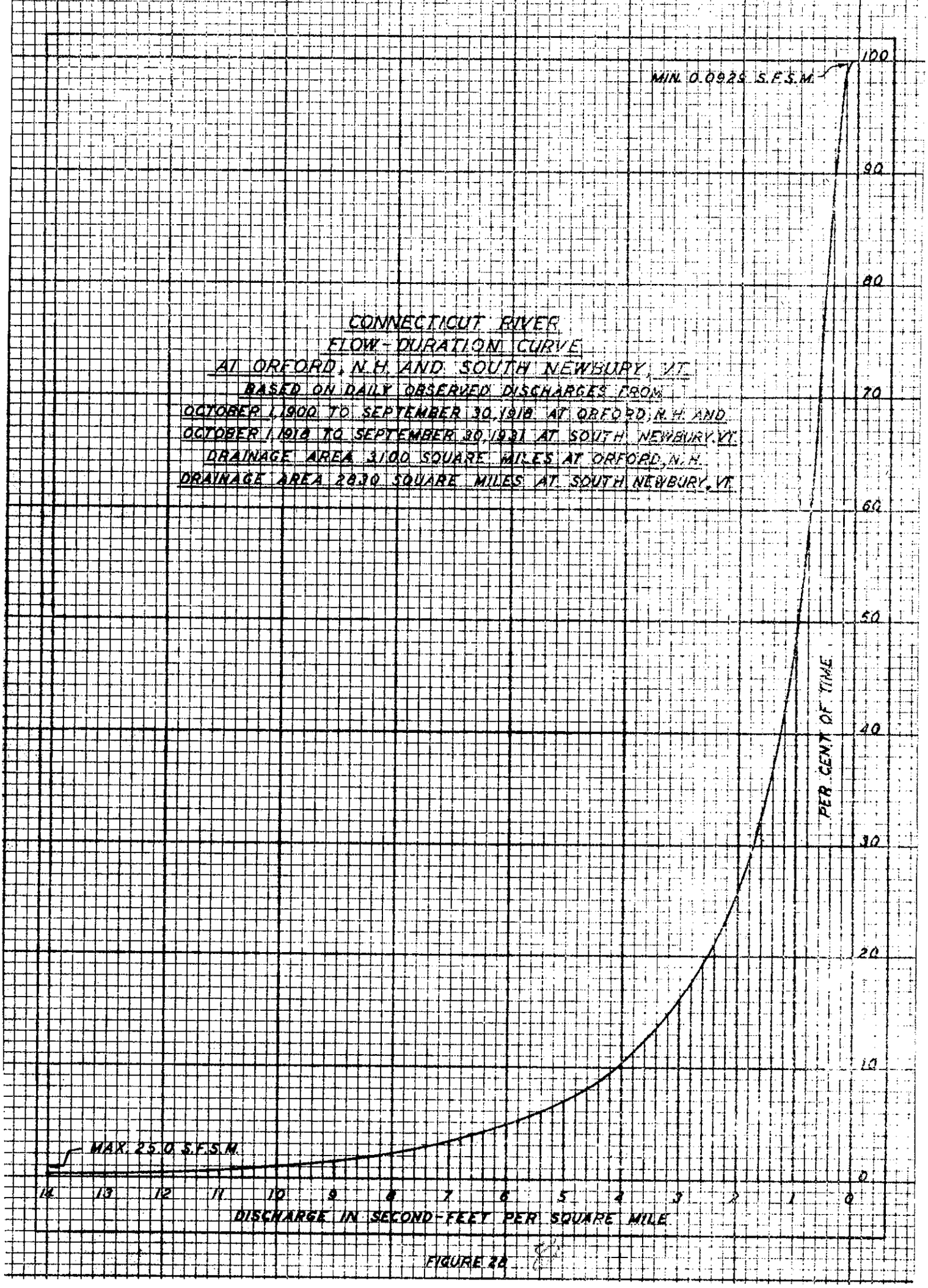

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
BASED ON DAILY OBSERVED DISCHARGES FROM
OCTOBER 1, 1900 TO SEPTEMBER 30, 1918 AT ORFORD, N.H. AND
OCTOBER 1, 1918 TO SEPTEMBER 30, 1931 AT SOUTH NEWBURY, VT.
DRAINAGE AREA 3100 SQUARE MILES AT ORFORD, N.H.
DRAINAGE AREA 2830 SQUARE MILES AT SOUTH NEWBURY, VT.
MIN. 0.0925 S.F.S.M.
MAX. 25.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 28

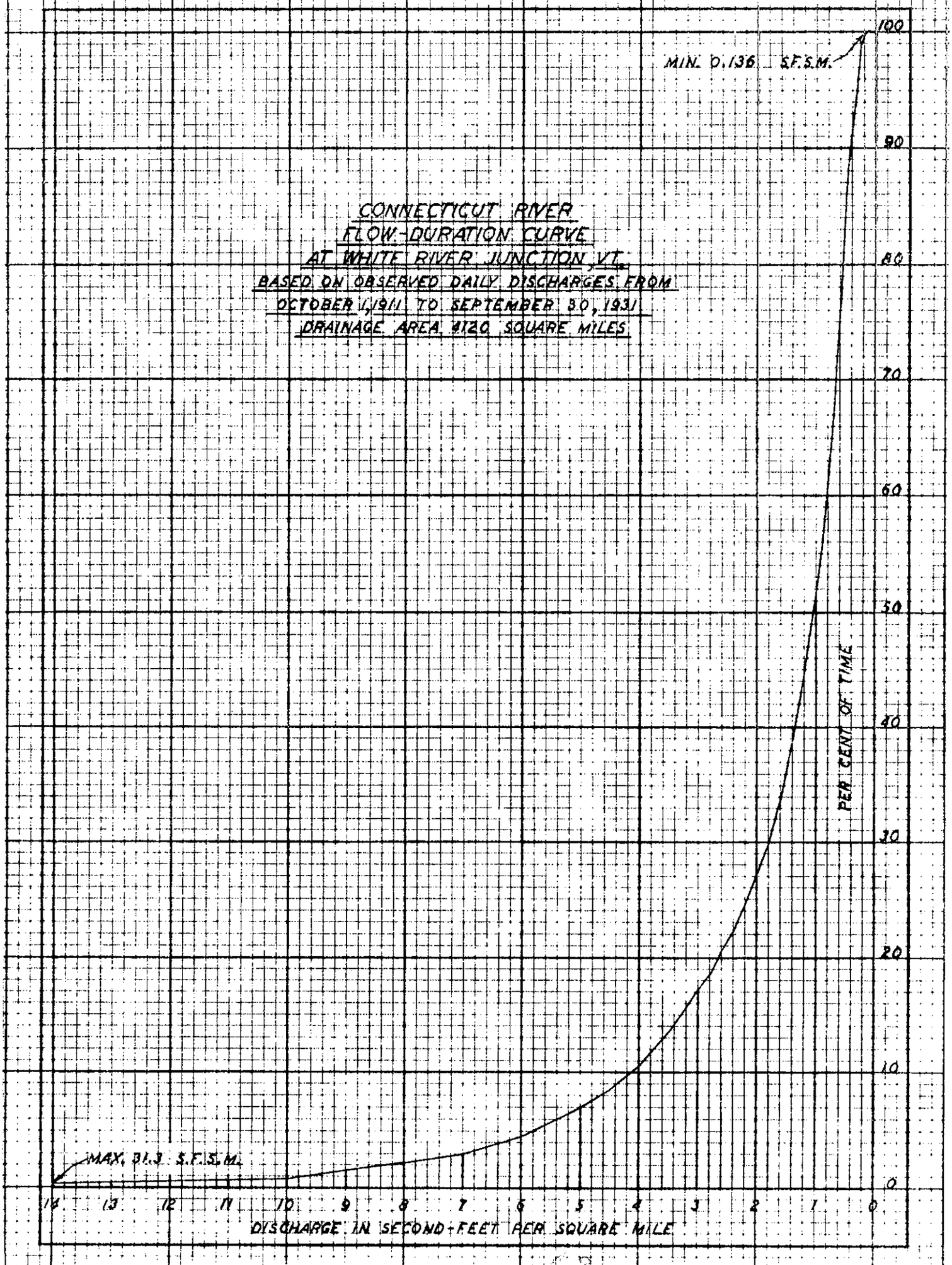

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT WHITE RIVER JUNCTION, VT.
BASED ON OBSERVED DAILY DISCHARGES FROM
OCTOBER 1, 1911 TO SEPTEMBER 30, 1931
DRAINAGE AREA 4120 SQUARE MILES
MIN. 0.136 S.F.S.M.
MAX. 31.3 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 29

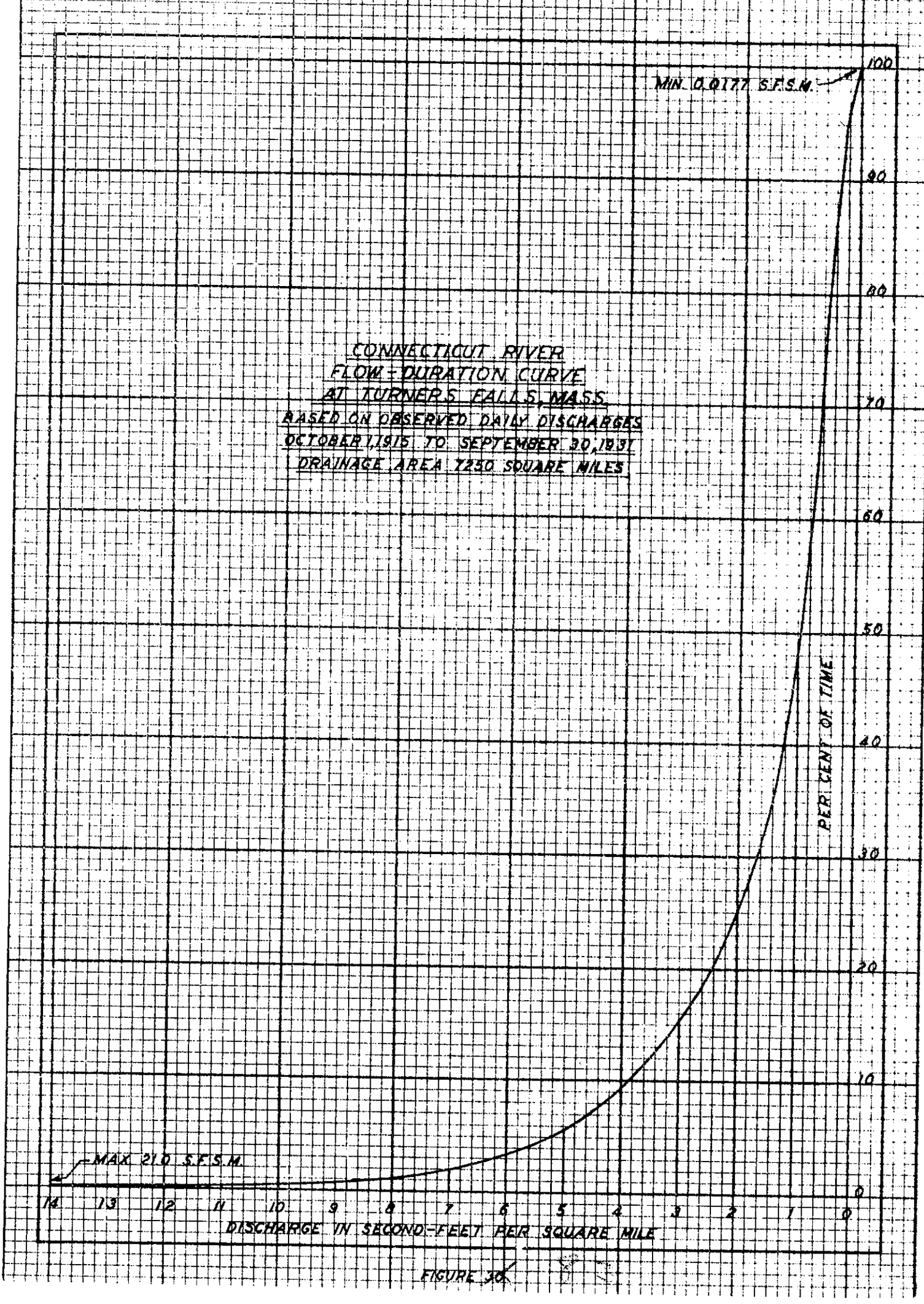

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT TURNERS FALLS, MASS.
BASED ON OBSERVED DAILY DISCHARGES
OCTOBER 1, 1915 TO SEPTEMBER 30, 1931
DRAINAGE AREA 7250 SQUARE MILES
MIN. 0.0177 S.F.S.M.
MAX. 21.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 30

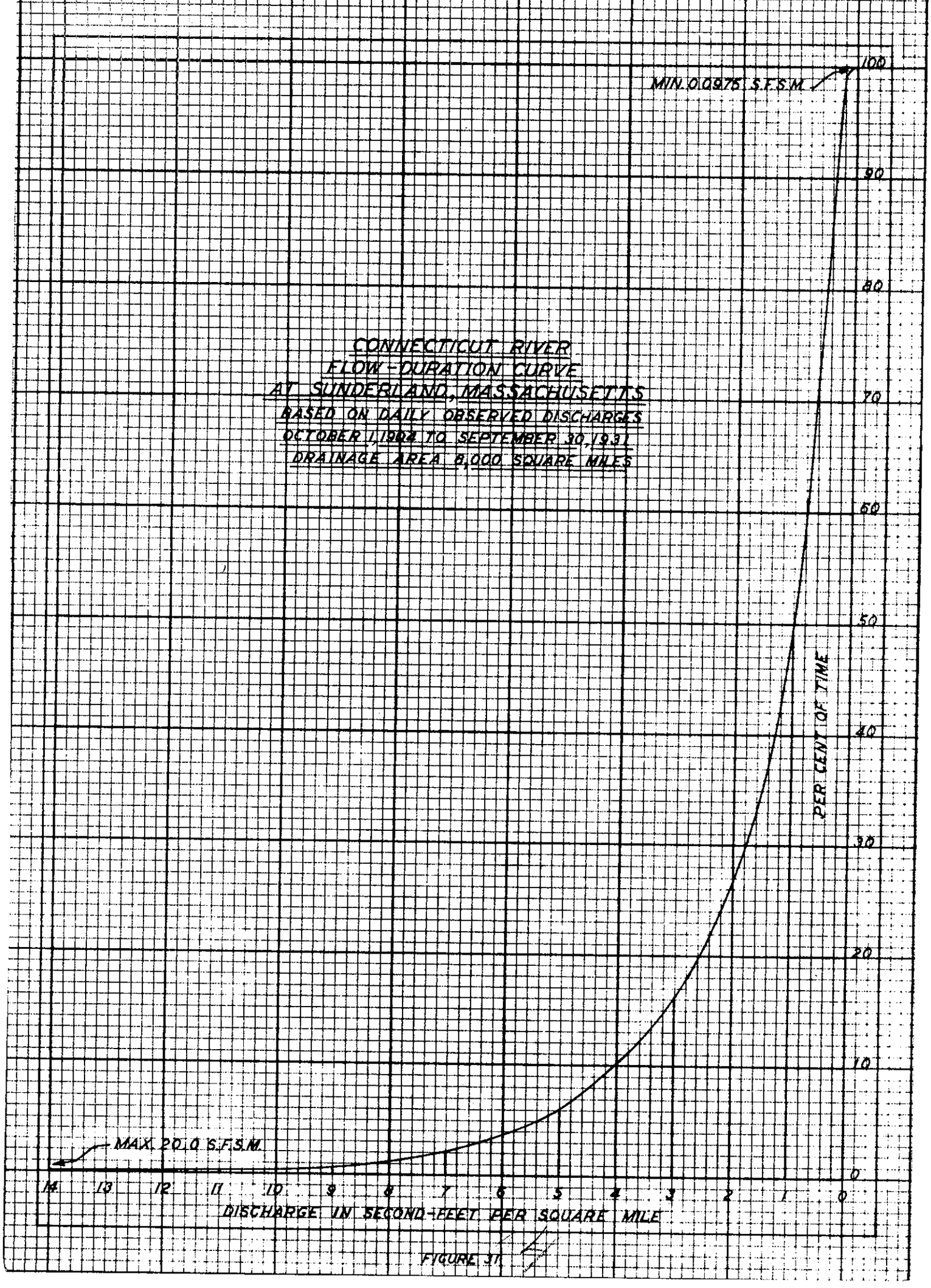

CONNECTICUT RIVER
FLOW-DURATION CURVE
AT SUNDERLAND, MASSACHUSETTS
BASED ON DAILY OBSERVED DISCHARGES
OCTOBER 1, 1904 TO SEPTEMBER 30, 1931
DRAINAGE AREA 8,000 SQUARE MILES
MIN. 0.0975 S.F.S.M.
MAX. 20.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 31

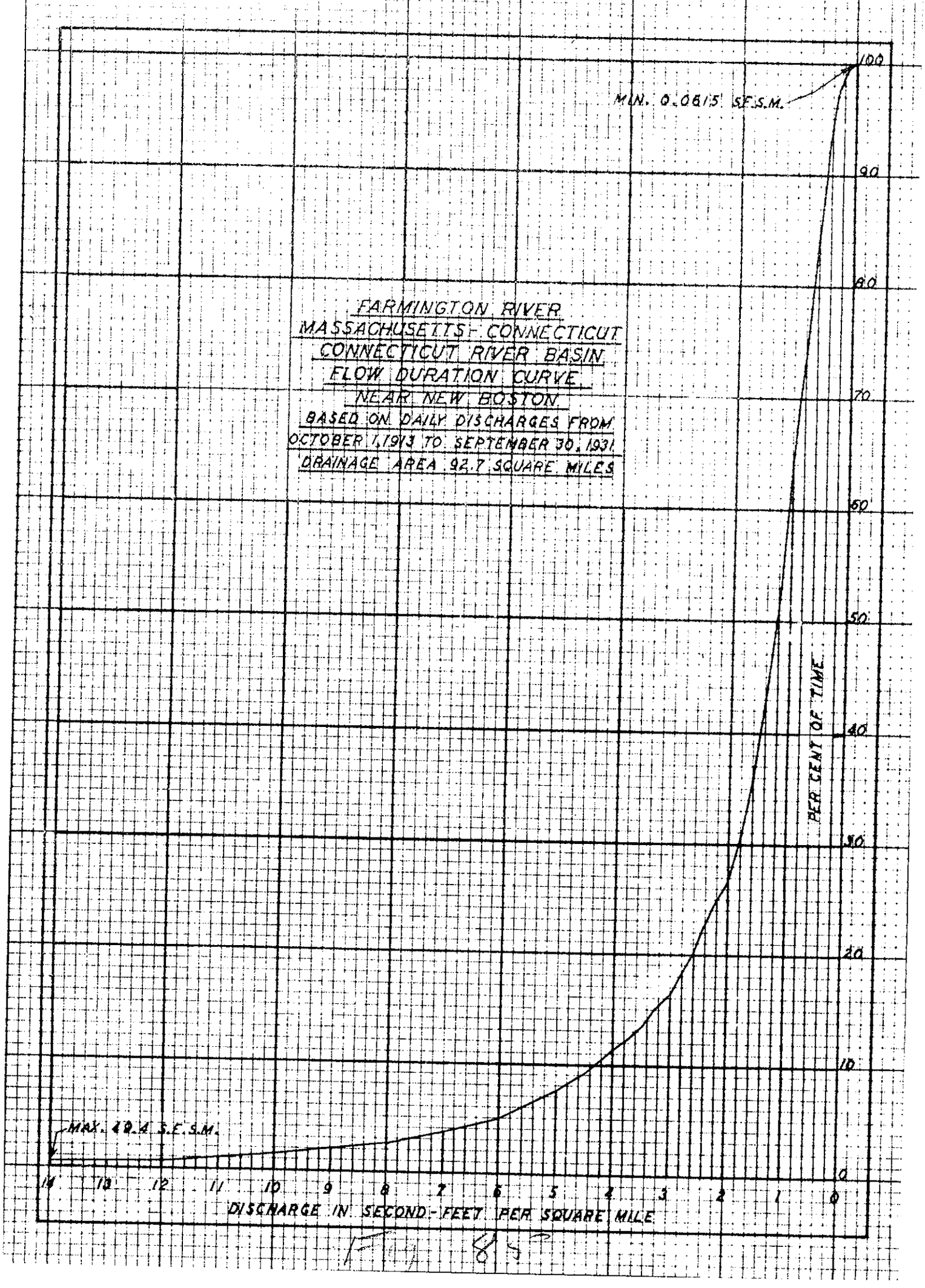

FARMINGTON RIVER
MASSACHUSETTS - CONNECTICUT
CONNECTICUT RIVER BASIN
FLOW DURATION CURVE
NEAR NEW BOSTON
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1913 TO SEPTEMBER 30, 1931
DRAINAGE AREA 92.7 SQUARE MILES
MIN. 0.0615 S.F.S.M.
MAX. 12.4 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 85

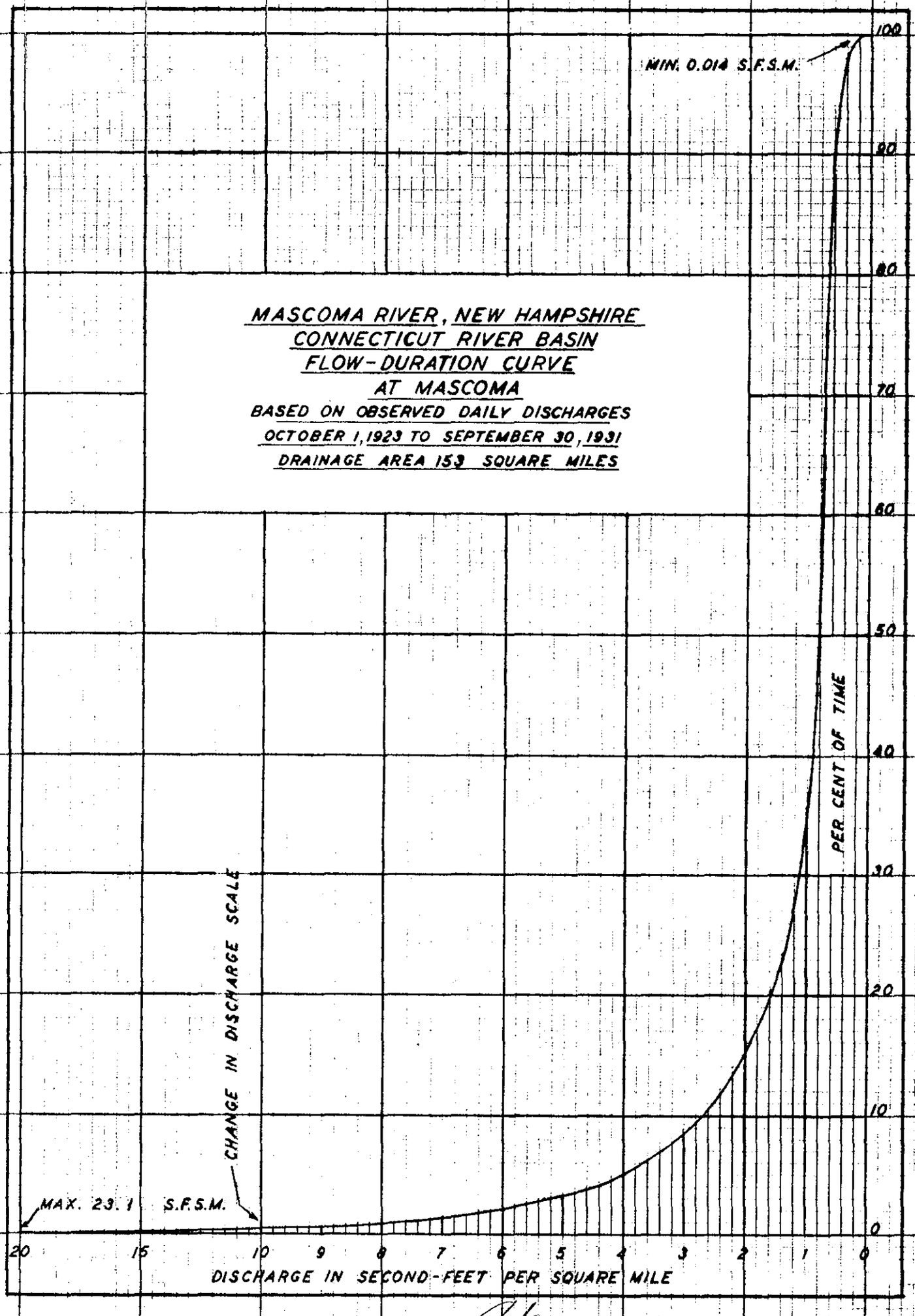

MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT MASCOMA
BASED ON OBSERVED DAILY DISCHARGES
OCTOBER 1, 1923 TO SEPTEMBER 30, 1931
DRAINAGE AREA 153 SQUARE MILES
MIN. 0.014 S.F.S.M.
MAX. 23.1 S.F.S.M.
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
20
15
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 46

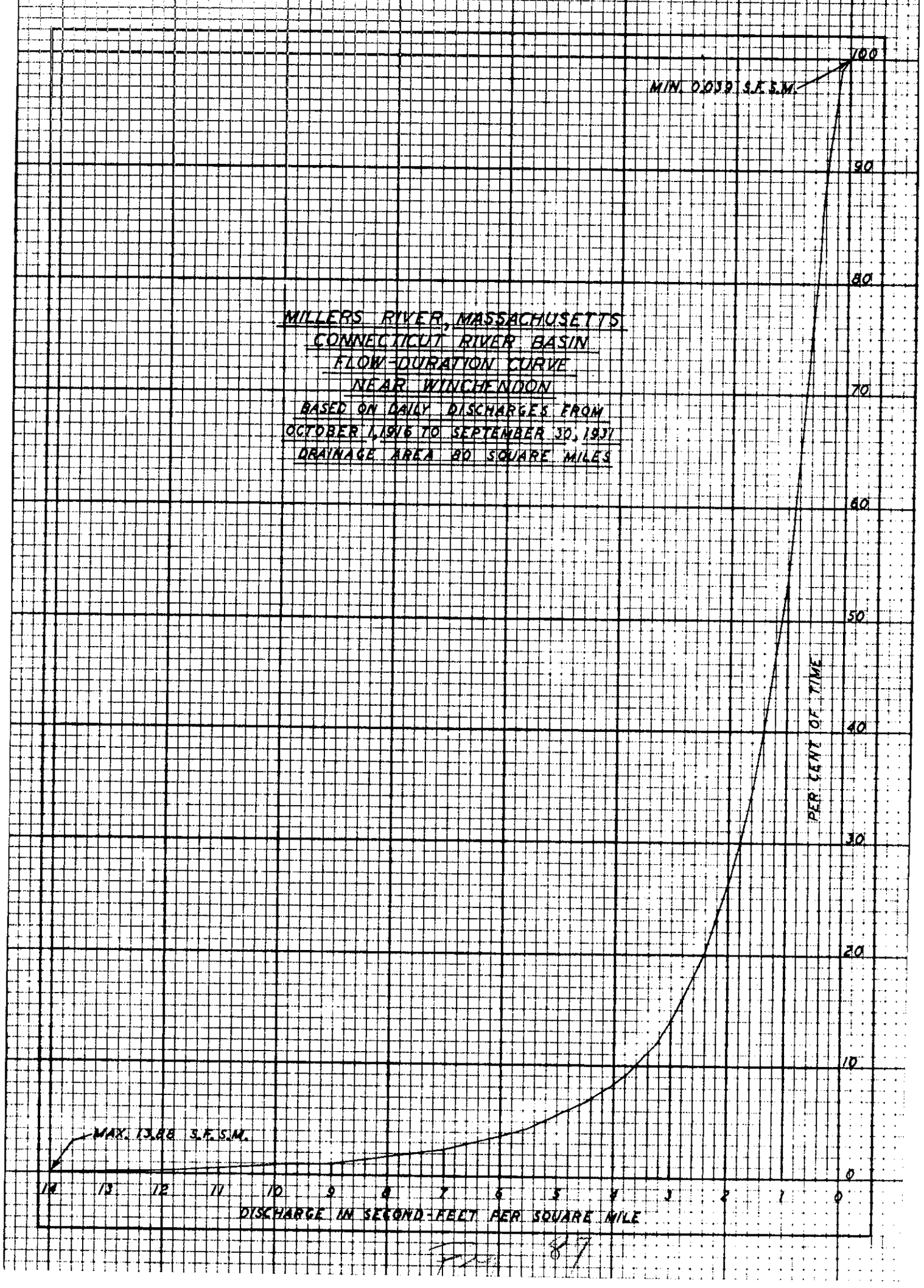
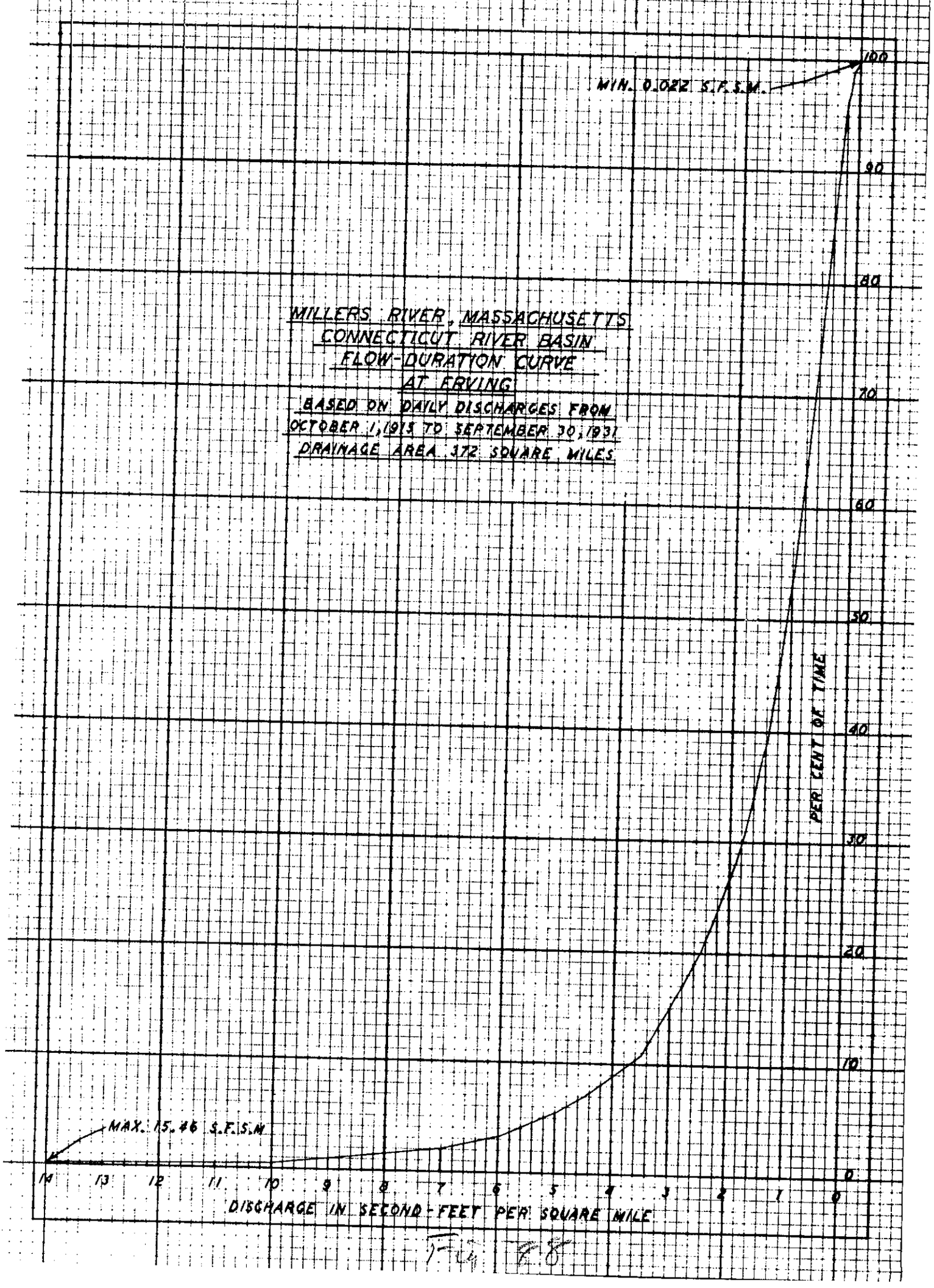

MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR WINCHENDON
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1916 TO SEPTEMBER 30, 1931
DRAINAGE AREA 80 SQUARE MILES
MIN. 0.039 S.F.S.M.
MAX. 13.88 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 87


MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT ERVING
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1915 TO SEPTEMBER 30, 1931
DRAINAGE AREA 372 SQUARE MILES
MIN. 0.022 S.F.S.M.
MAX. 15.46 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

F-4 F-8

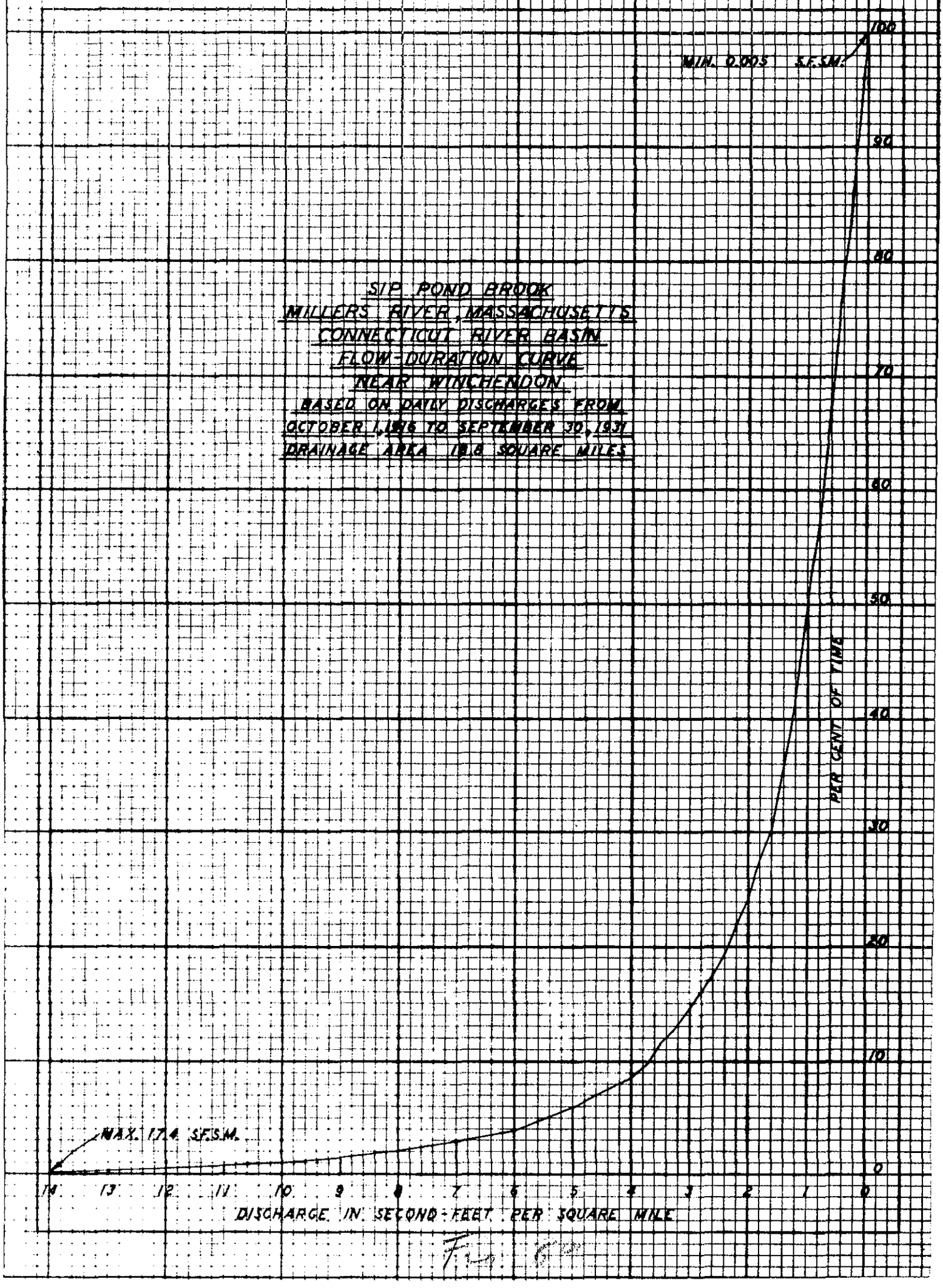

SIP POND BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR WINCHENDON
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1916 TO SEPTEMBER 30, 1931
DRAINAGE AREA 18.6 SQUARE MILES
MIN. 0.005 S.F.S.M.
MAX. 17.4 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 6

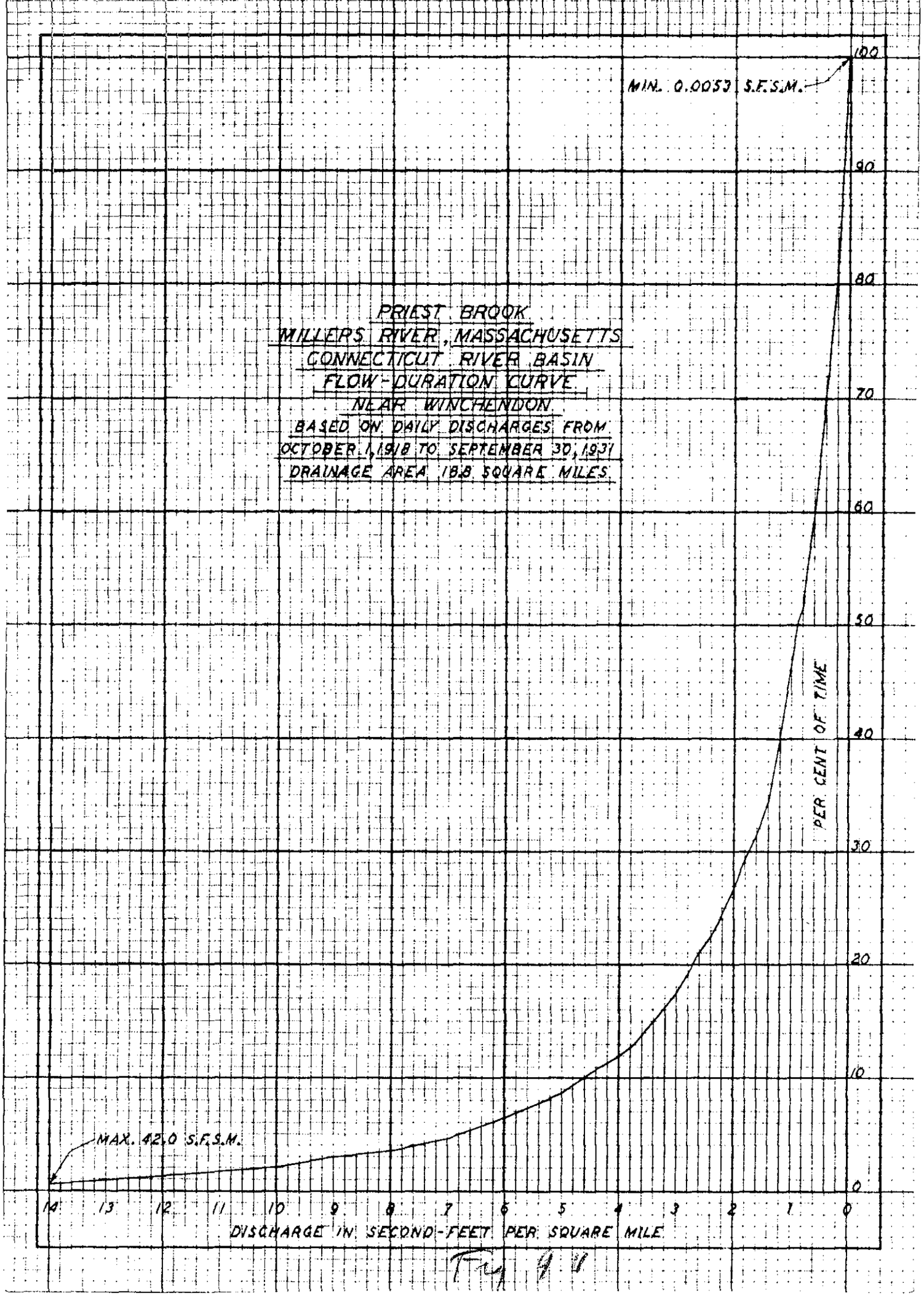

PRIEST BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR WINCHENDON
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1918 TO SEPTEMBER 30, 1931
DRAINAGE AREA 18.8 SQUARE MILES
MIN. 0.0053 S.F.S.M.
MAX. 42.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig 11

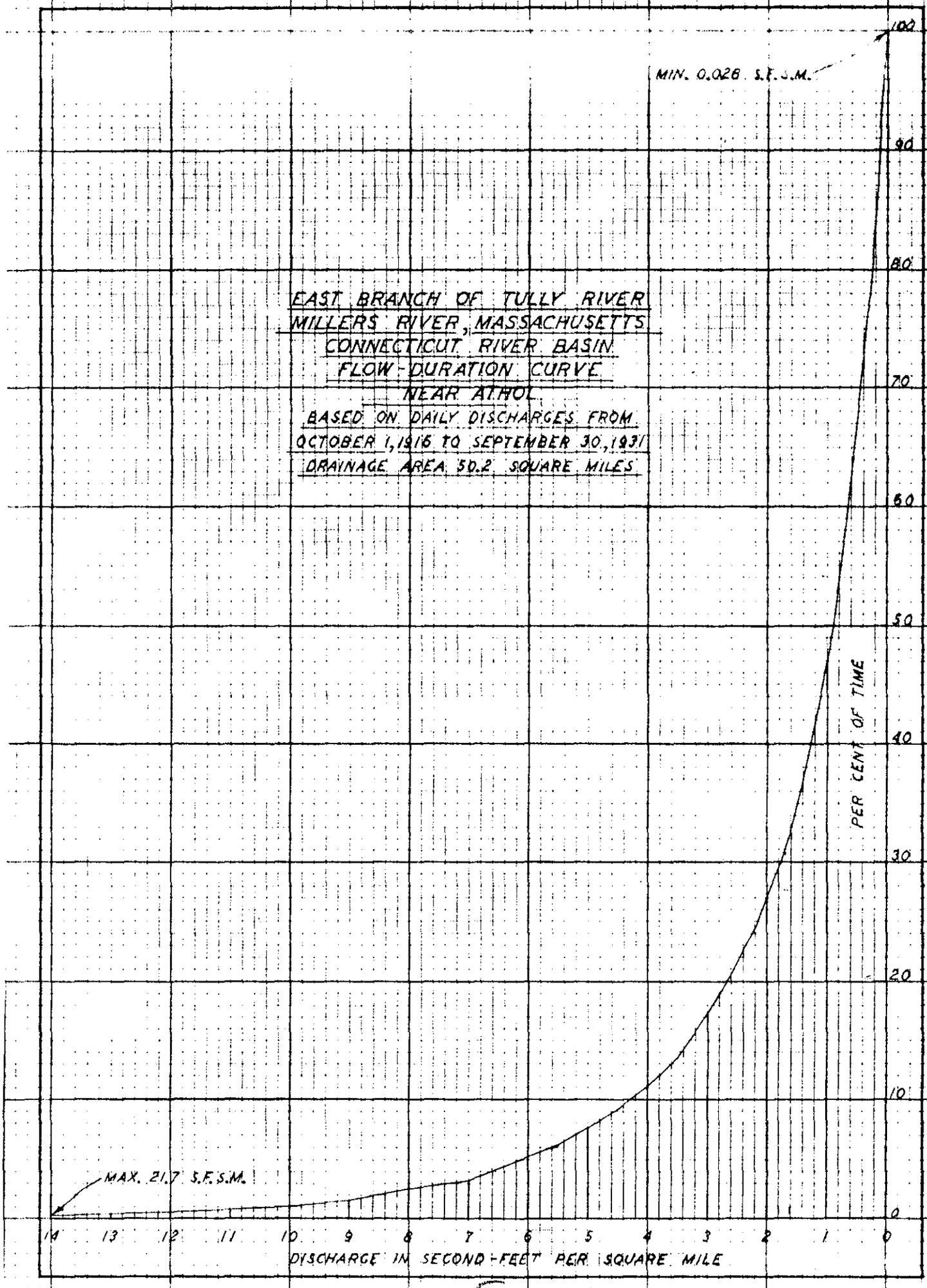

EAST BRANCH OF TULLY RIVER
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR ATHOL
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1916 TO SEPTEMBER 30, 1931
DRAINAGE AREA 50.2 SQUARE MILES
MIN. 0.028 S.F.S.M.
MAX. 21.7 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 91

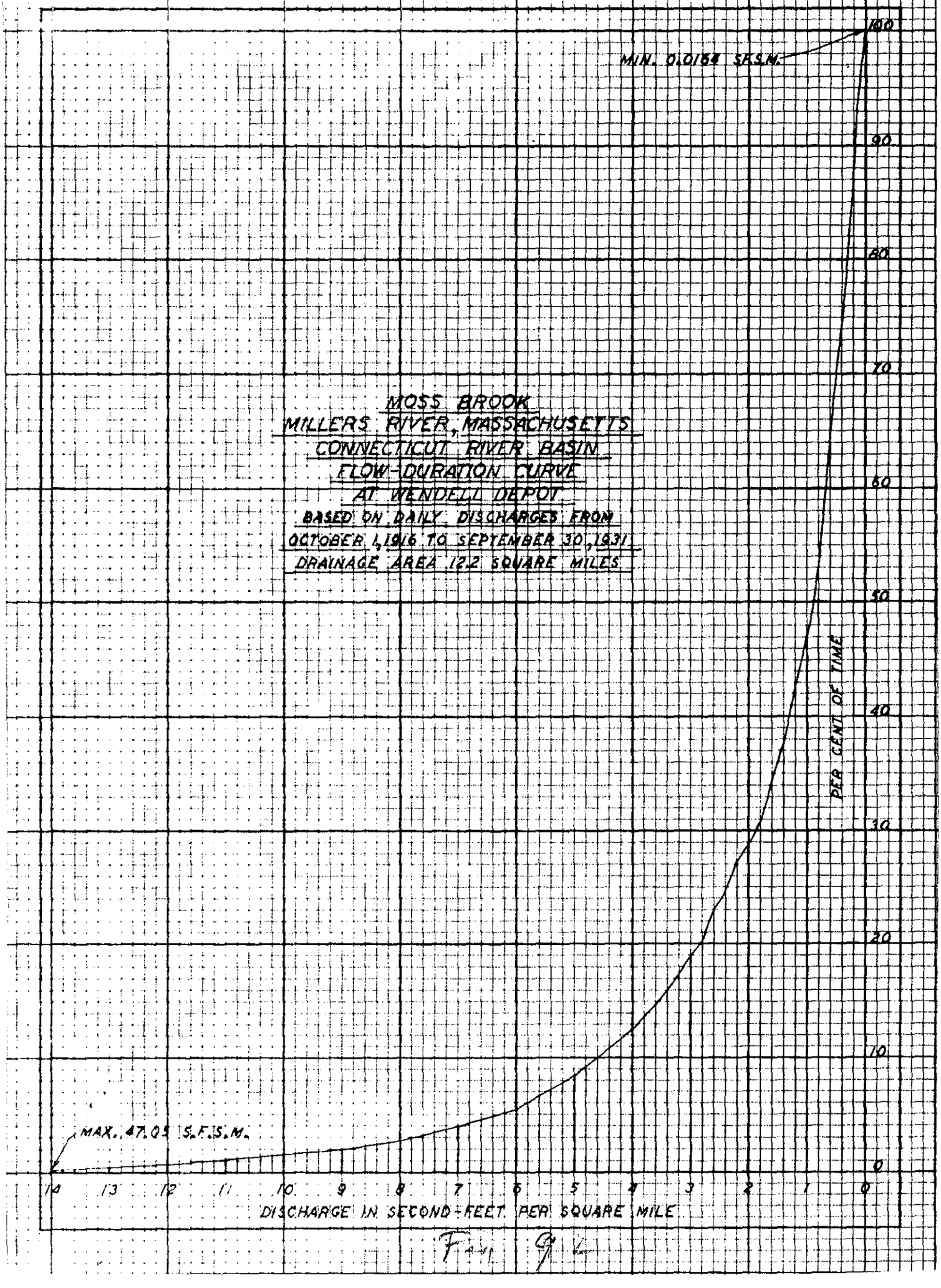

MOSS BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT WENDELL DEPOT
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1916 TO SEPTEMBER 30, 1931
DRAINAGE AREA 12.2 SQUARE MILES
MIN. 0.0164 S.F.S.M.
MAX. 47.05 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 9

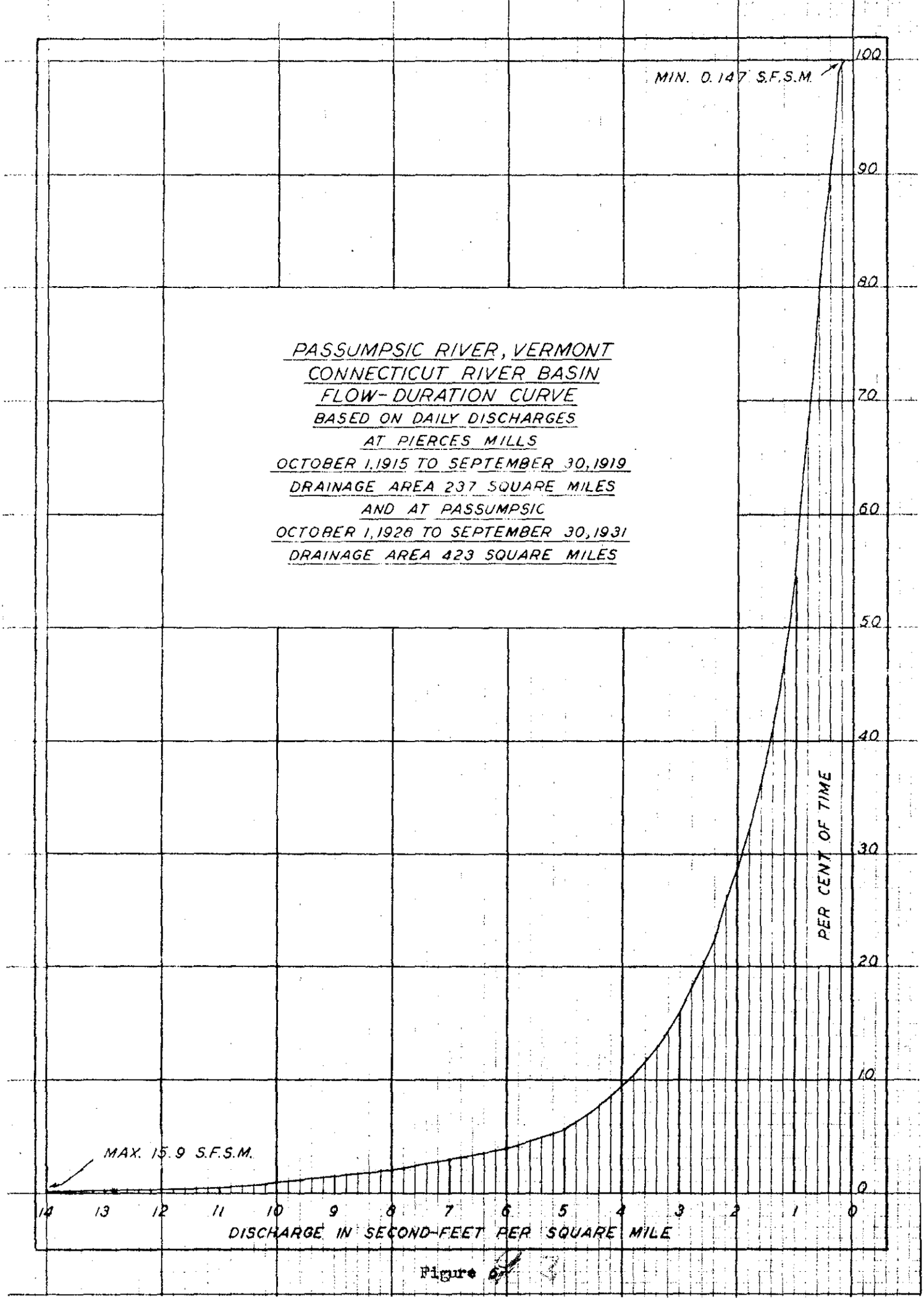

PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
BASED ON DAILY DISCHARGES
AT PIERCES MILLS
OCTOBER 1, 1915 TO SEPTEMBER 30, 1919
DRAINAGE AREA 237 SQUARE MILES
AND AT PASSUMPSIC
OCTOBER 1, 1928 TO SEPTEMBER 30, 1931
DRAINAGE AREA 423 SQUARE MILES
MIN. 0.147 S.F.S.M.
MAX. 15.9 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Figure 6

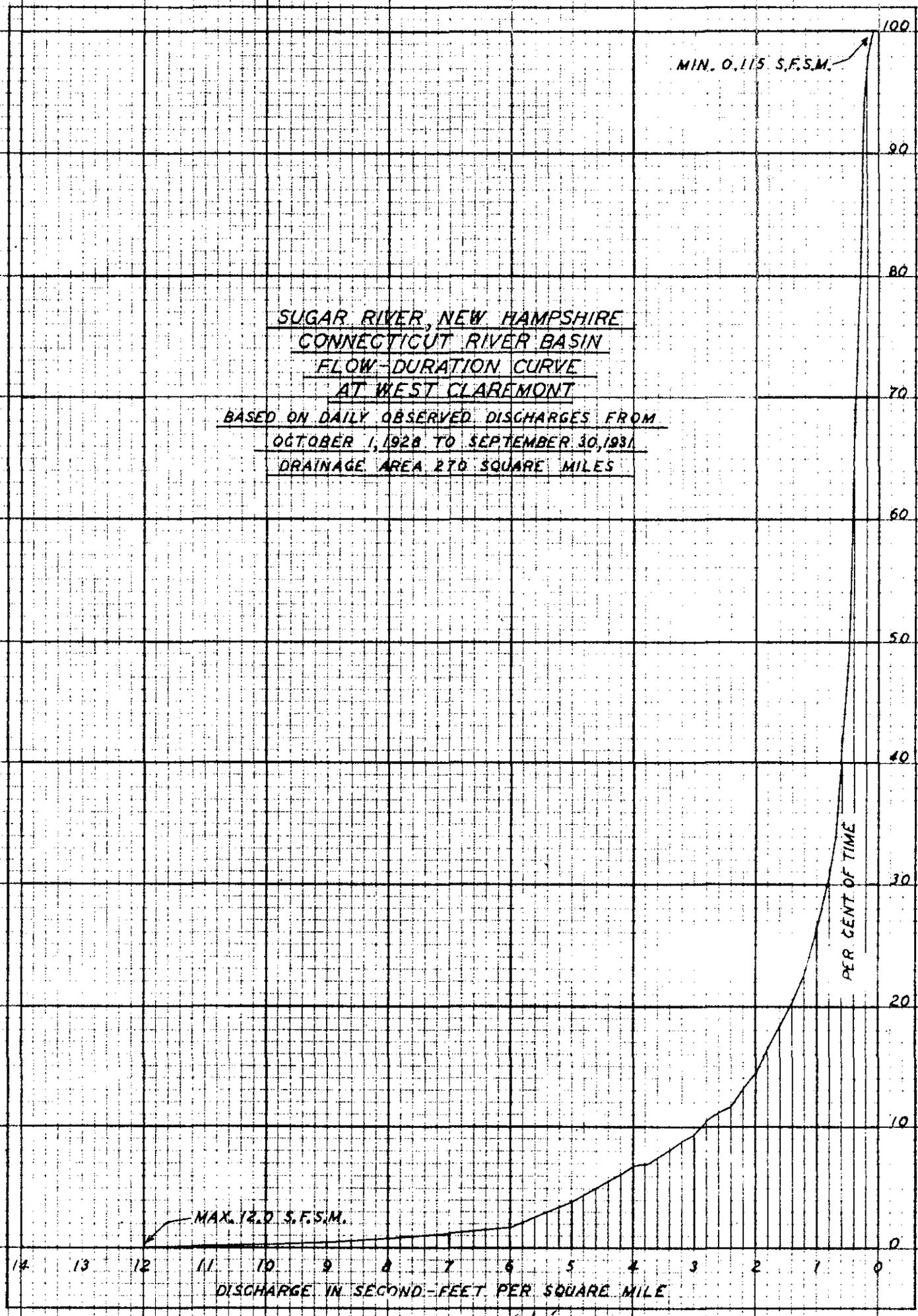
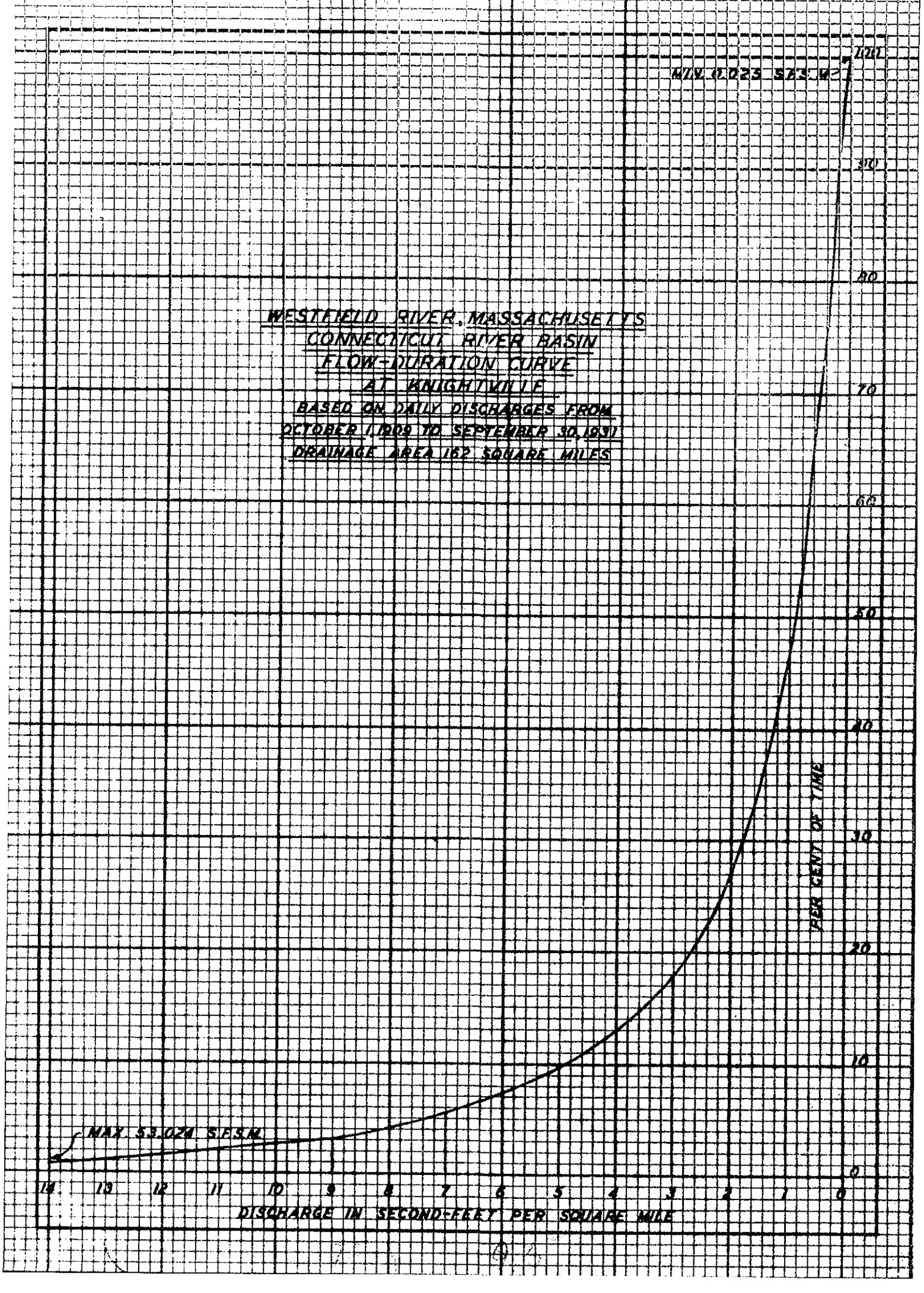

SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT WEST CLAREMONT
BASED ON DAILY OBSERVED DISCHARGES FROM
OCTOBER 1, 1928 TO SEPTEMBER 30, 1931
DRAINAGE AREA 270 SQUARE MILES
MIN. 0.115 S.F.S.M.
MAX. 12.0 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 8


WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT KNIGHTVILLE
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1909 TO SEPTEMBER 30, 1931
DRAINAGE AREA 162 SQUARE MILES
MAX. 53.024 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

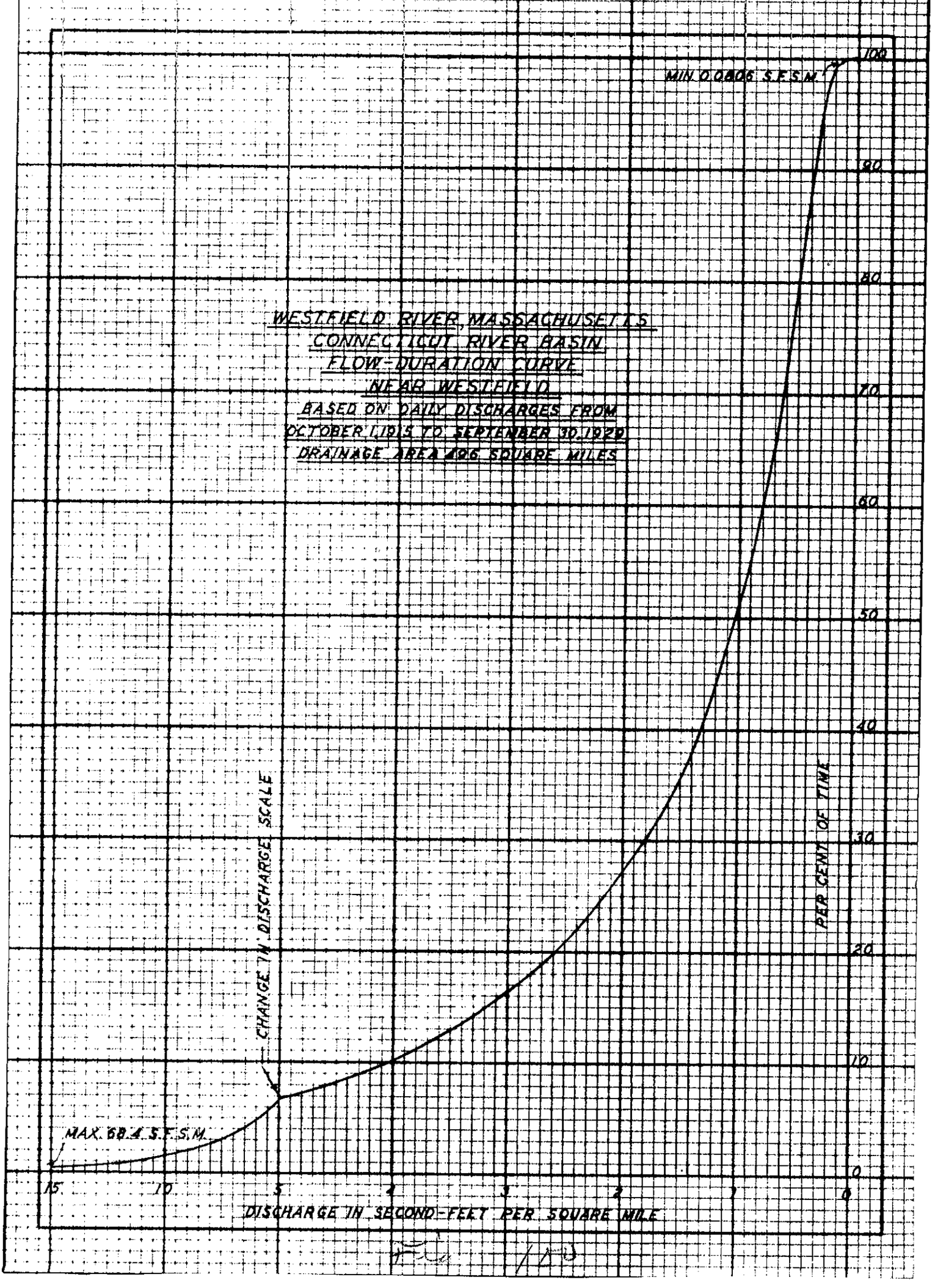

WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
NEAR WESTFIELD
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1915 TO SEPTEMBER 30, 1920
DRAINAGE AREA 406 SQUARE MILES
MIN. 0.0806 S.F.S.M.
MAX. 68.4 S.F.S.M.
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
15
10
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 110

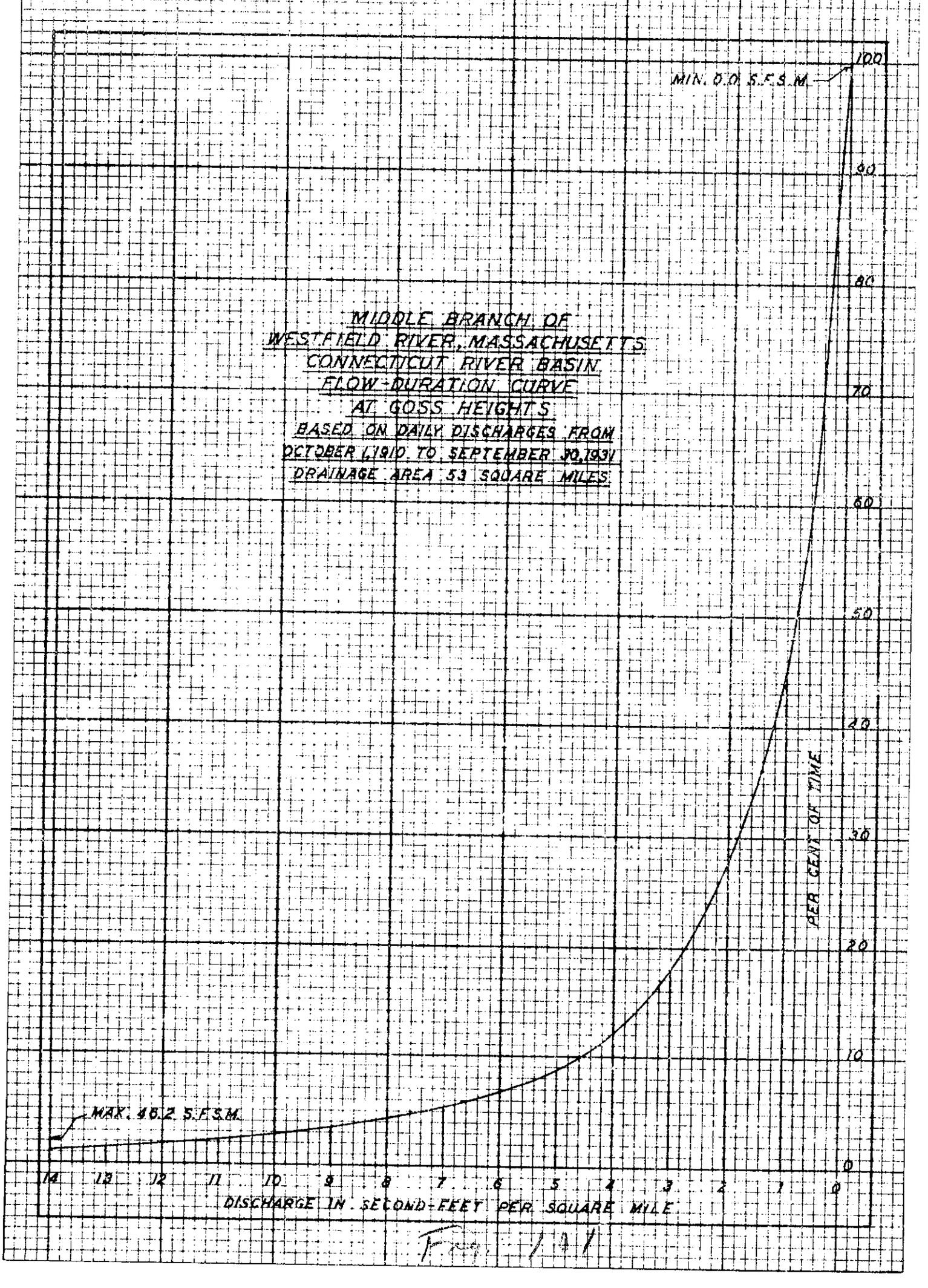

MIDDLE BRANCH OF
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AT GOSS HEIGHTS
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1910 TO SEPTEMBER 30, 1931
DRAINAGE AREA 53 SQUARE MILES
MIN. 0.0 S.F.S.M.
MAX. 46.2 S.F.S.M.
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 141

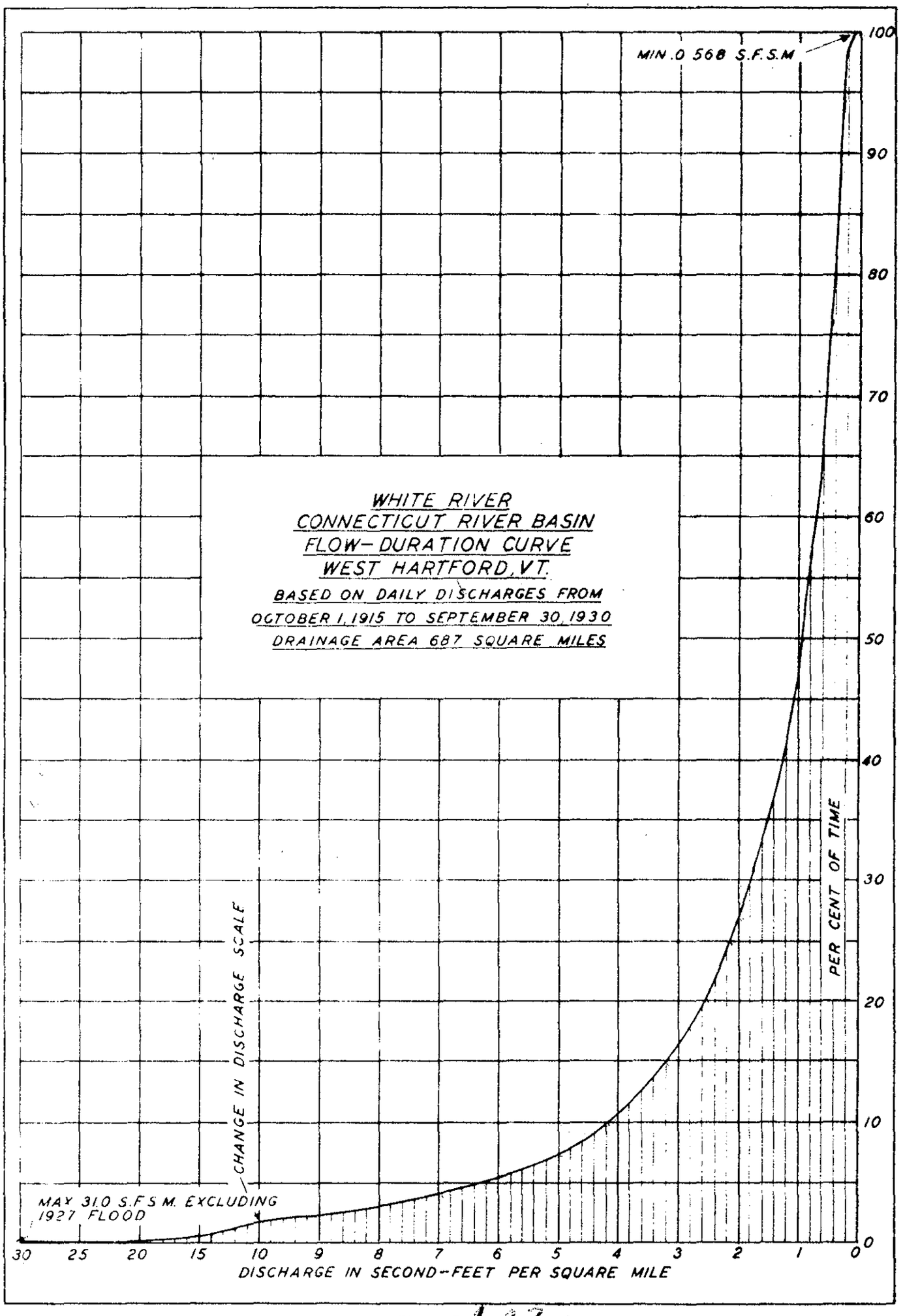

WHITE RIVER
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
WEST HARTFORD, VT.
BASED ON DAILY DISCHARGES FROM
OCTOBER 1, 1915 TO SEPTEMBER 30, 1930
DRAINAGE AREA 687 SQUARE MILES
MIN. 0.568 S.F.S.M.
MAX. 31.0 S.F.S.M. EXCLUDING 1927 FLOOD
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
30
25
20
15
10
9
8
7
6
5
4
3
2
1
0
100
90
80
70
60
50
40
30
20
10
0

FIGURE 12

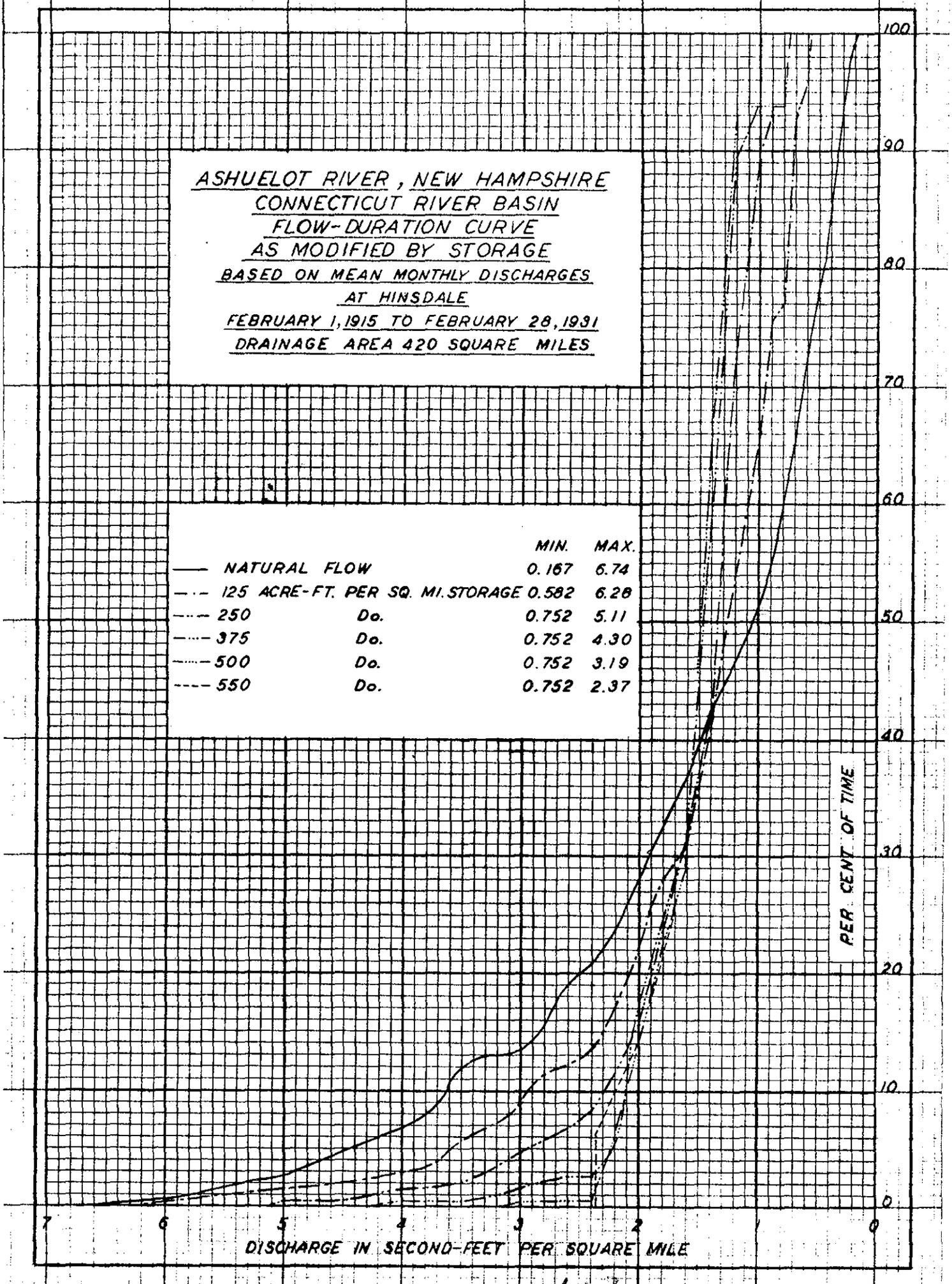

ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT HINSDALE
FEBRUARY 1, 1915 TO FEBRUARY 28, 1931
DRAINAGE AREA 420 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.167 6.74
125 ACRE-FT. PER SQ. MI. STORAGE 0.582 6.28
250 Do. 0.752 5.11
375 Do. 0.752 4.30
500 Do. 0.752 3.19
550 Do. 0.752 2.37
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 103

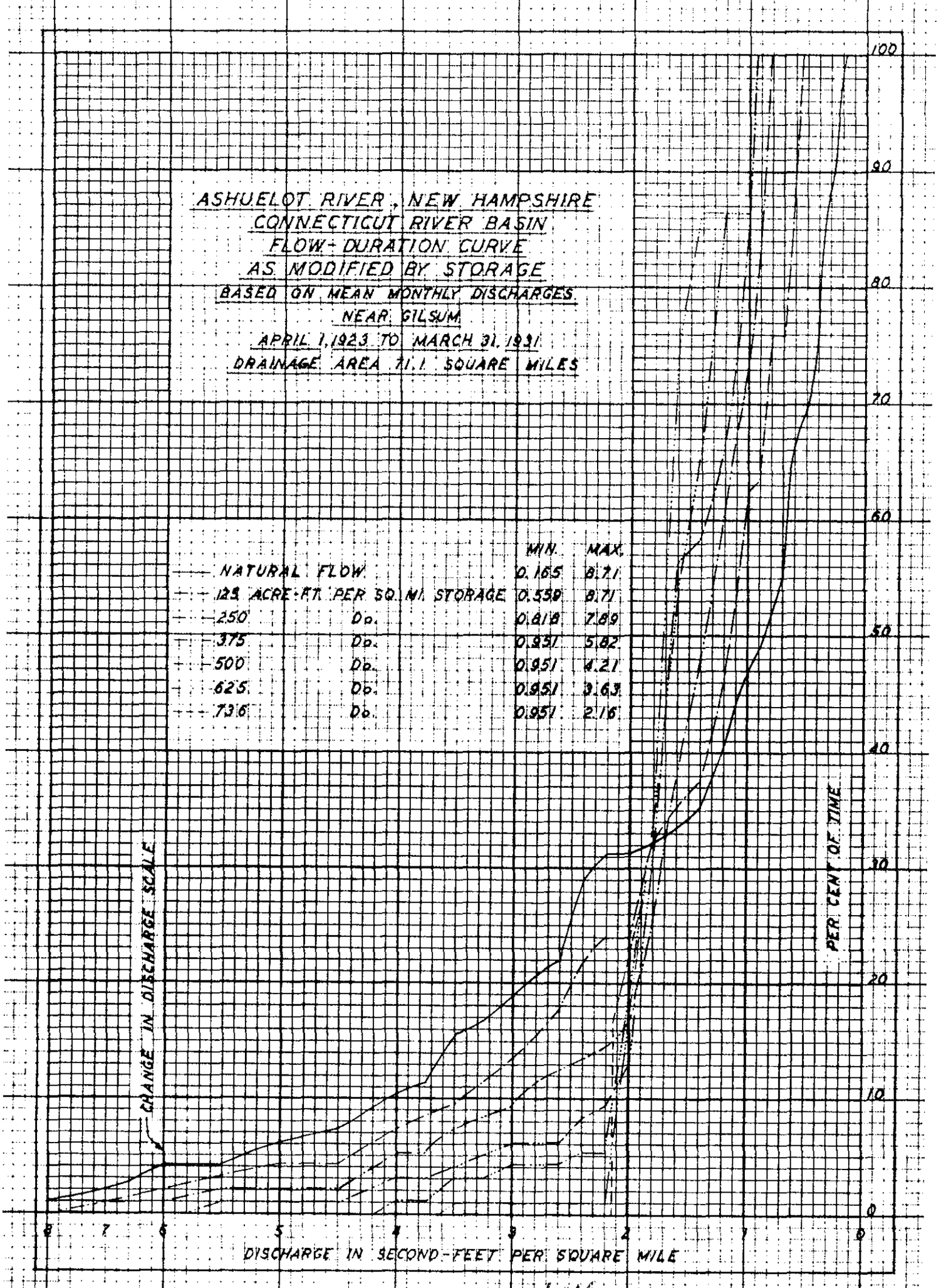


FIGURE ~~35~~ 104

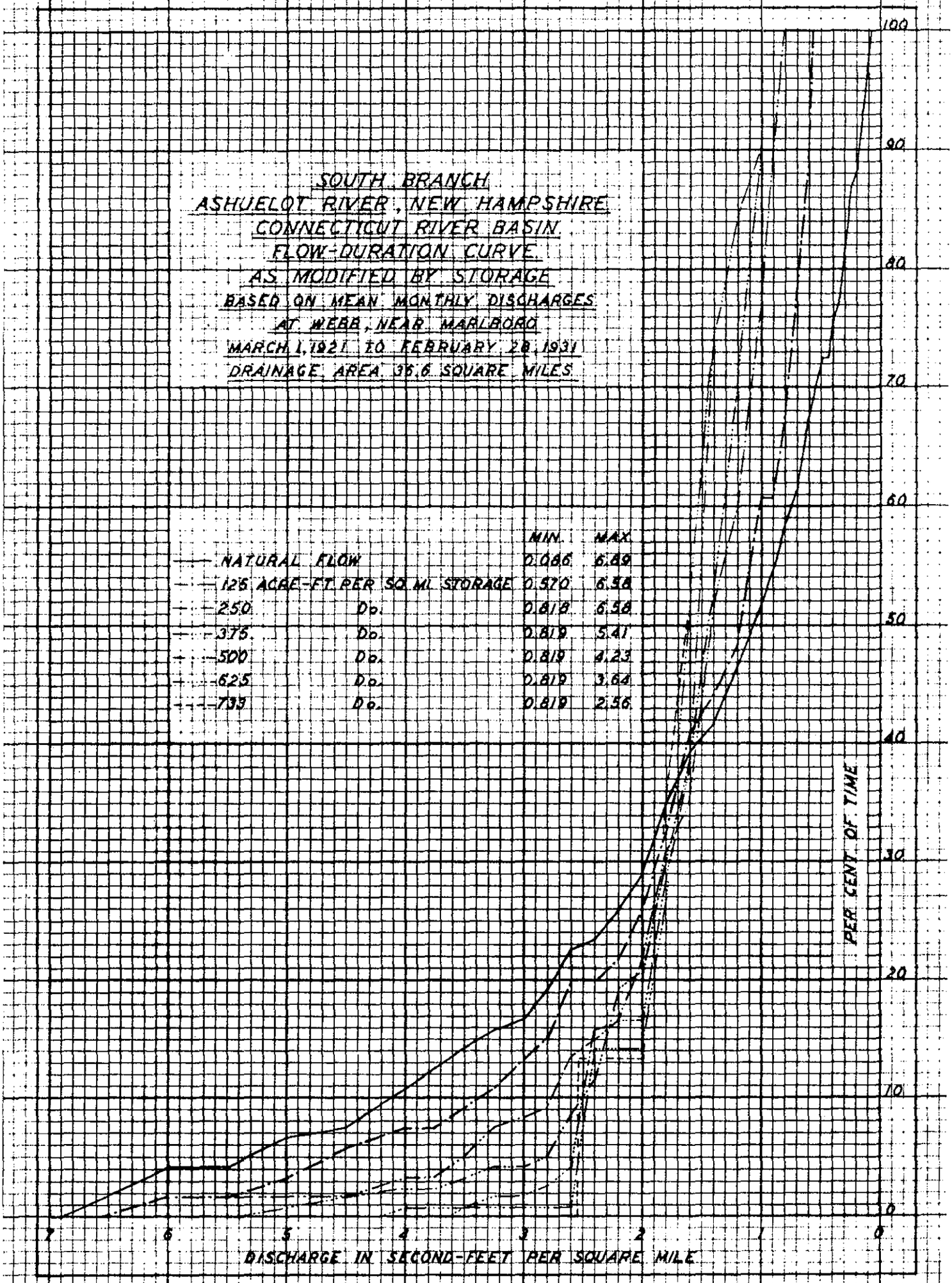

SOUTH BRANCH
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT WEBB, NEAR MARLBORO
MARCH 1, 1921 TO FEBRUARY 28, 1931
DRAINAGE AREA 36.6 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.086 6.89
125 ACRE-FT. PER SQ. MI. STORAGE 0.570 6.58
250 Do. 0.818 6.58
375 Do. 0.819 5.41
500 Do. 0.819 4.23
625 Do. 0.819 3.64
733 Do. 0.819 2.56
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 36

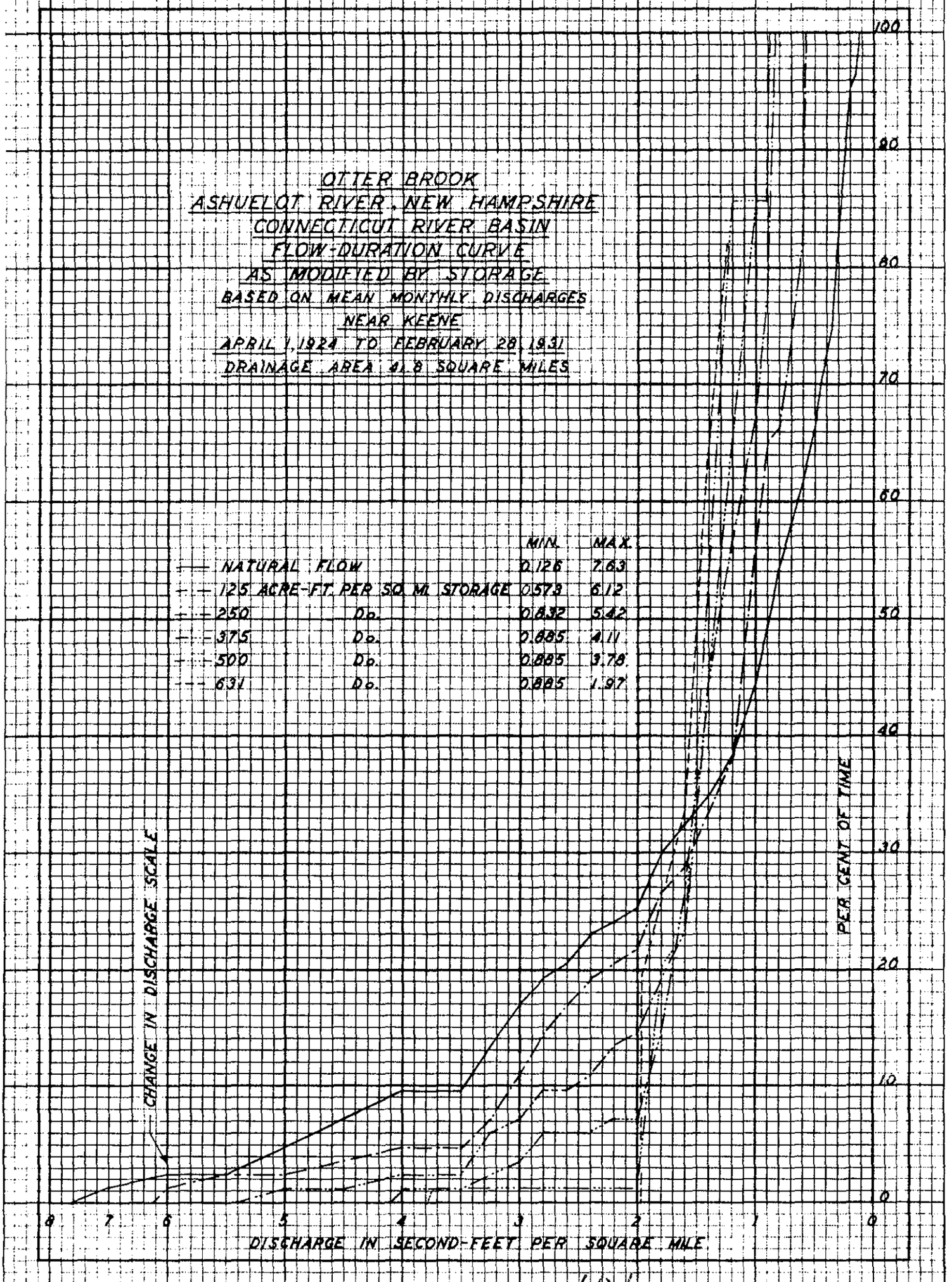
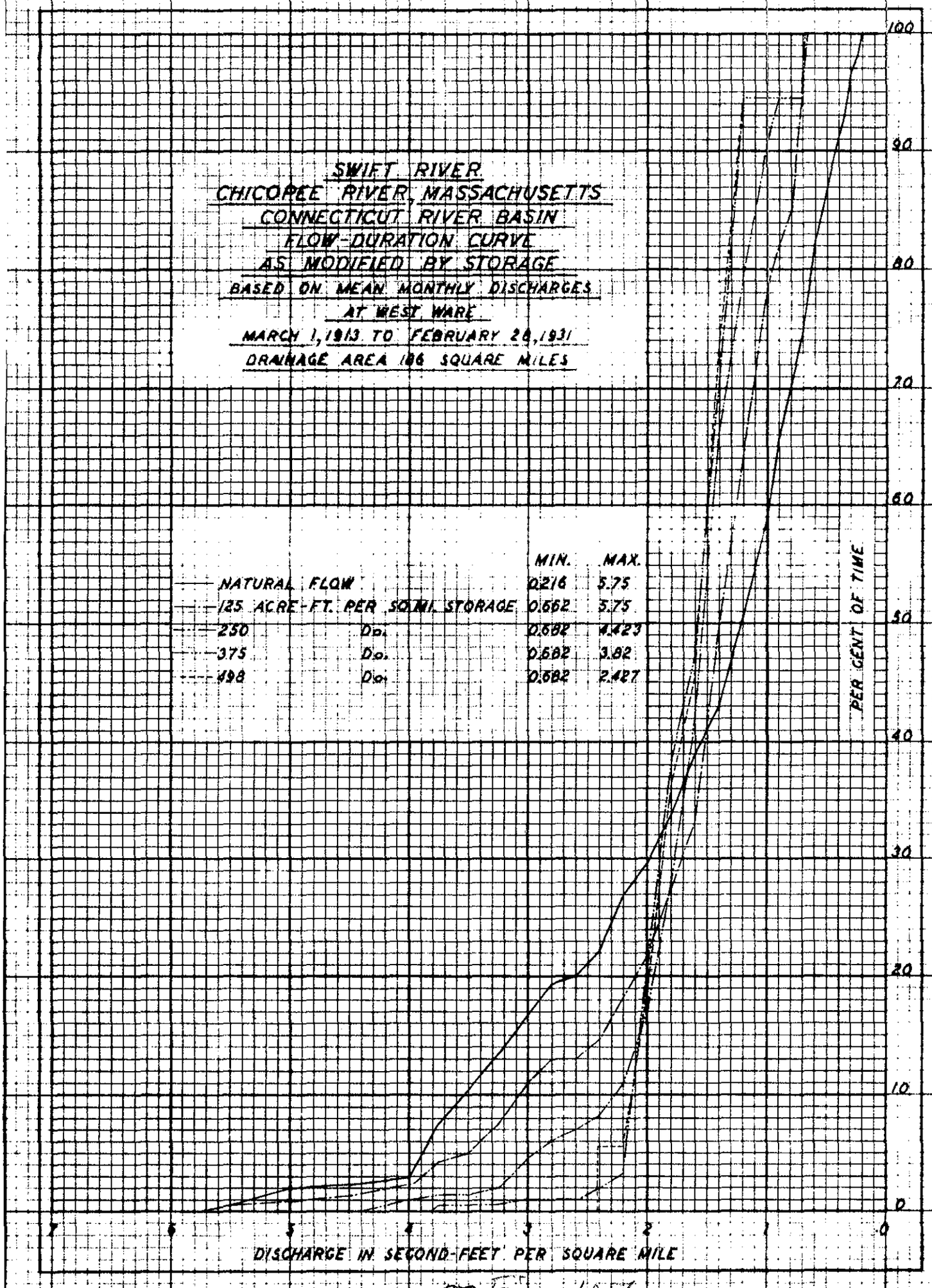

OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR KEENE
APRIL 1, 1924 TO FEBRUARY 28, 1931
DRAINAGE AREA 41.8 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.126 7.63
125 ACRE-FT. PER SQ. MI. STORAGE 0.573 6.12
250 Do. 0.832 5.42
375 Do. 0.885 4.11
500 Do. 0.885 3.78
631 Do. 0.885 1.97
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 32


SWIFT RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT WEST WARE
MARCH 1, 1913 TO FEBRUARY 28, 1931
DRAINAGE AREA 186 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.216 5.75
125 ACRE-FT. PER SQ.MI. STORAGE 0.662 5.75
250 Do. 0.682 4.423
375 Do. 0.682 3.82
498 Do. 0.682 2.427
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

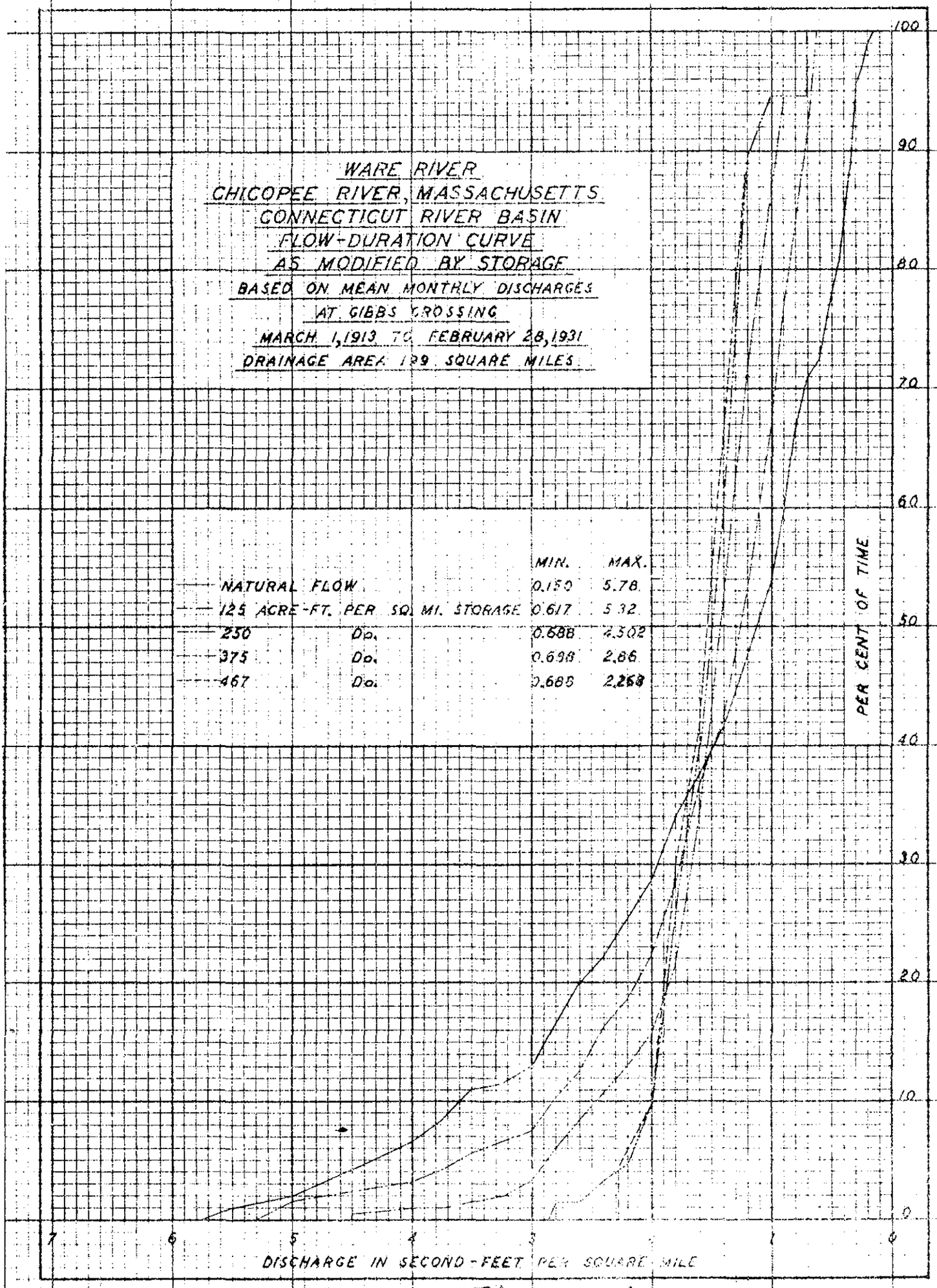

WARE RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT GIBBS CROSSING
MARCH 1, 1913 TO FEBRUARY 28, 1931
DRAINAGE AREA 129 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.150 5.78
125 ACRE-FT. PER SQ. MI. STORAGE 0.617 5.32
250 Do. 0.688 4.302
375 Do. 0.698 2.86
467 Do. 0.685 2.268
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig 108

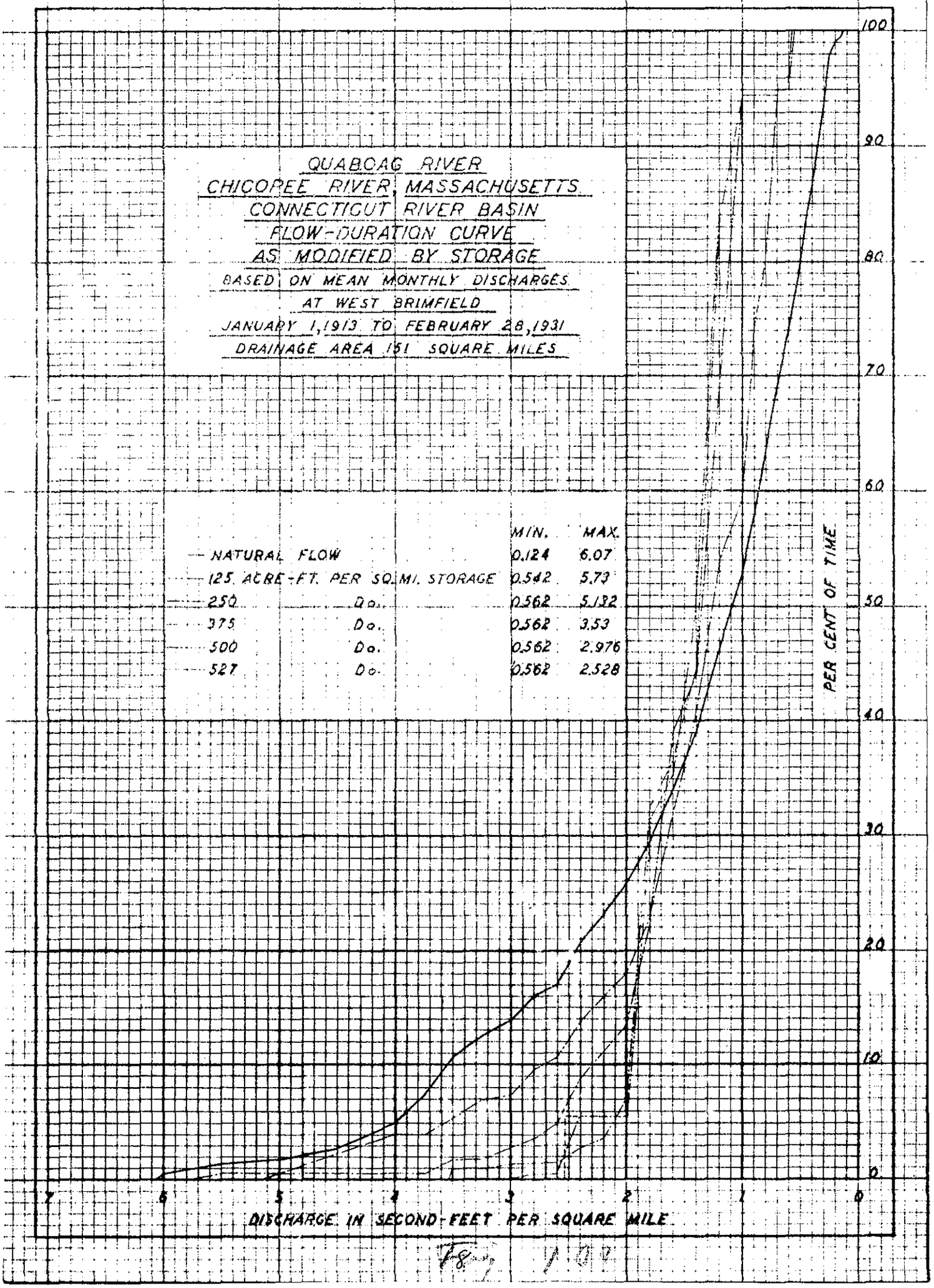

QUABOAG RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT WEST BRIMFIELD
JANUARY 1, 1913 TO FEBRUARY 28, 1931
DRAINAGE AREA 151 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.124 6.07
125 ACRE-FT. PER SQ. MI. STORAGE 0.542 5.73
250 Do. 0.562 5.132
375 Do. 0.562 3.53
500 Do. 0.562 2.976
527 Do. 0.562 2.528
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 102

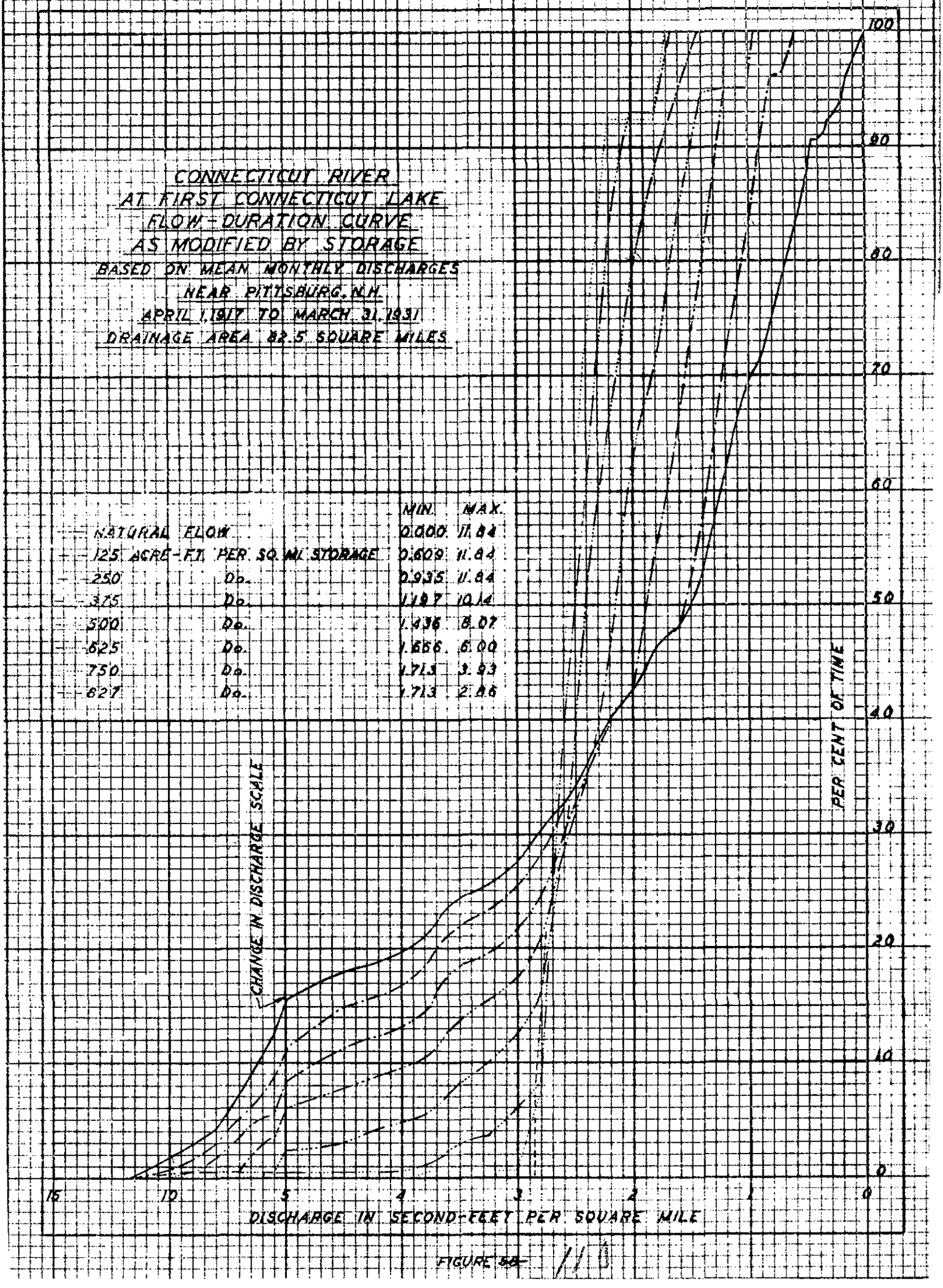

CONNECTICUT RIVER
AT FIRST CONNECTICUT LAKE
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR PITTSBURG, N.H.
APRIL 1, 1917 TO MARCH 31, 1931
DRAINAGE AREA 82.5 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.000 11.84
125 ACRE-FT. PER SQ. MI. STORAGE 0.609 11.84
250 Do. 0.935 11.84
375 Do. 1.197 10.14
500 Do. 1.436 8.07
625 Do. 1.666 6.00
750 Do. 1.713 3.93
827 Do. 1.713 2.86
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
15
10
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 58

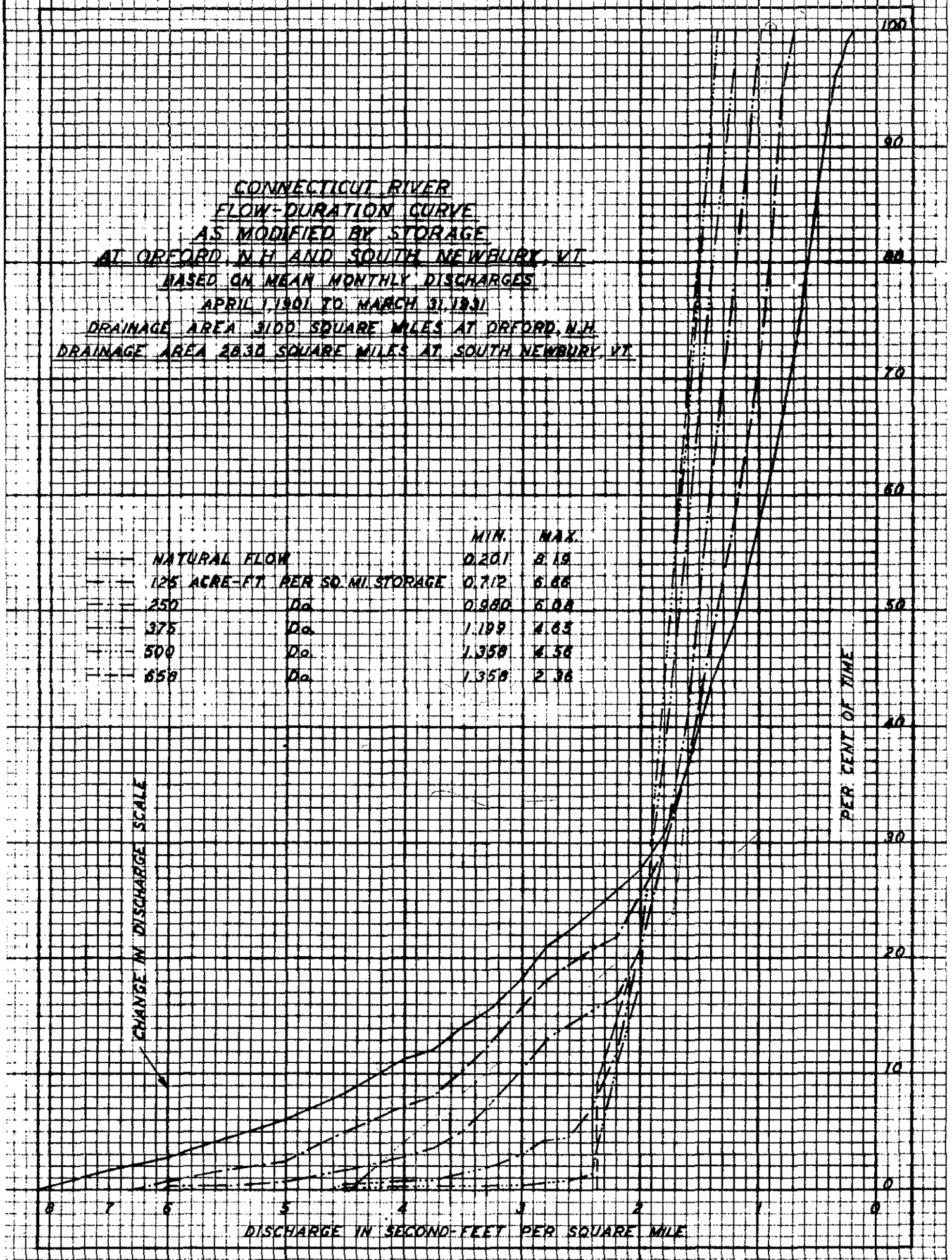

CONNECTICUT RIVER
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
BASED ON MEAN MONTHLY DISCHARGES
APRIL 1, 1901 TO MARCH 31, 1931
DRAINAGE AREA 3100 SQUARE MILES AT ORFORD, N.H.
DRAINAGE AREA 2830 SQUARE MILES AT SOUTH NEWBURY, VT.
MIN. MAX.
NATURAL FLOW 0.201 8.19
125 ACRE-FT. PER SQ. MI. STORAGE 0.712 6.66
250 Do. 0.980 6.08
375 Do. 1.199 4.63
500 Do. 1.358 4.56
658 Do. 1.358 2.36
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 59

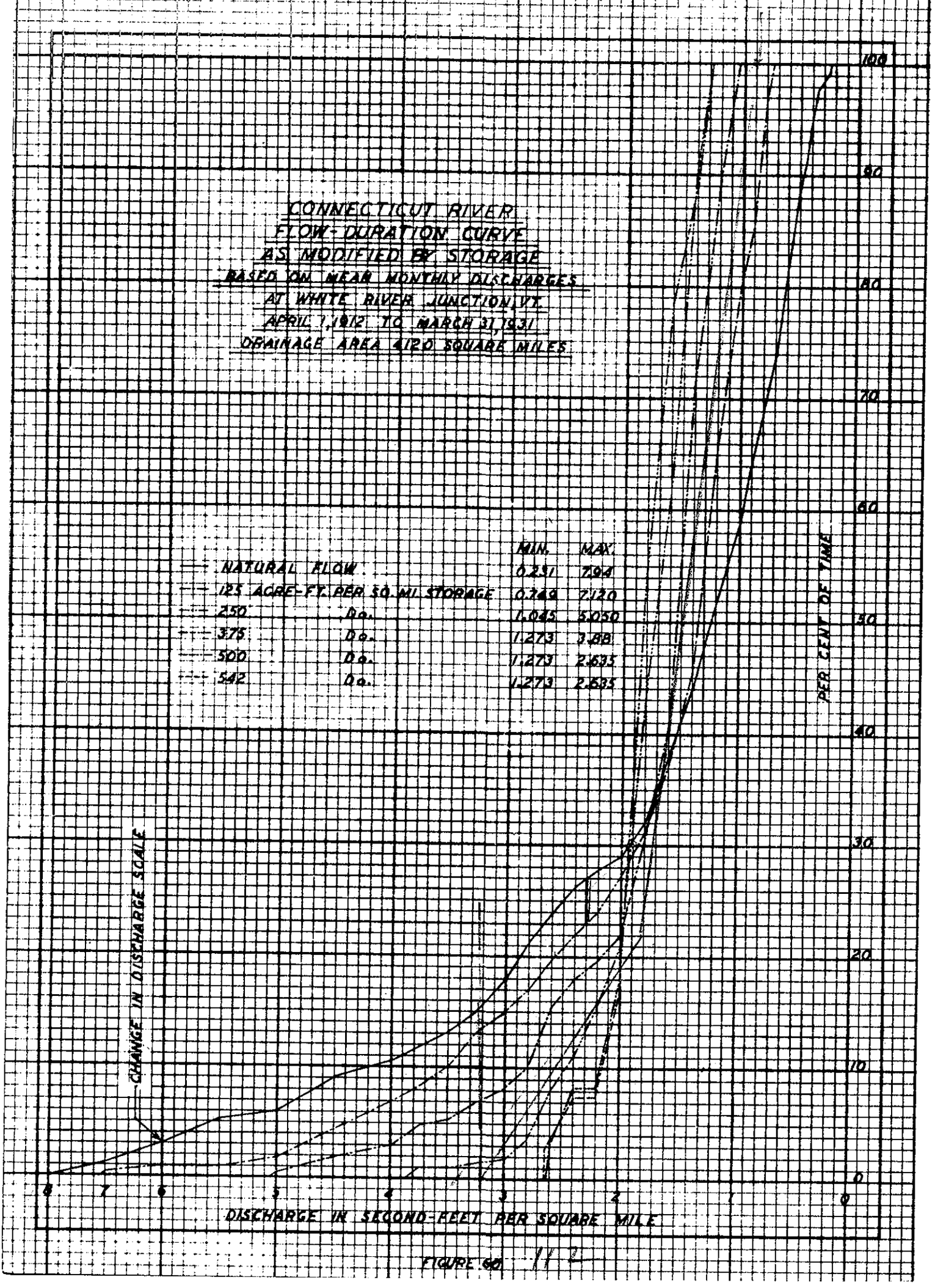

CONNECTICUT RIVER
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT WHITE RIVER JUNCTION, VT.
APRIL 1, 1912 TO MARCH 31, 1931
DRAINAGE AREA 4120 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.231 7.04
125 ACRE-FT. PER SQ. MI. STORAGE 0.749 7.120
250 Do. 1.045 5.050
375 Do. 1.273 3.88
500 Do. 1.273 2.635
542 Do. 1.273 2.635
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

FIGURE 60

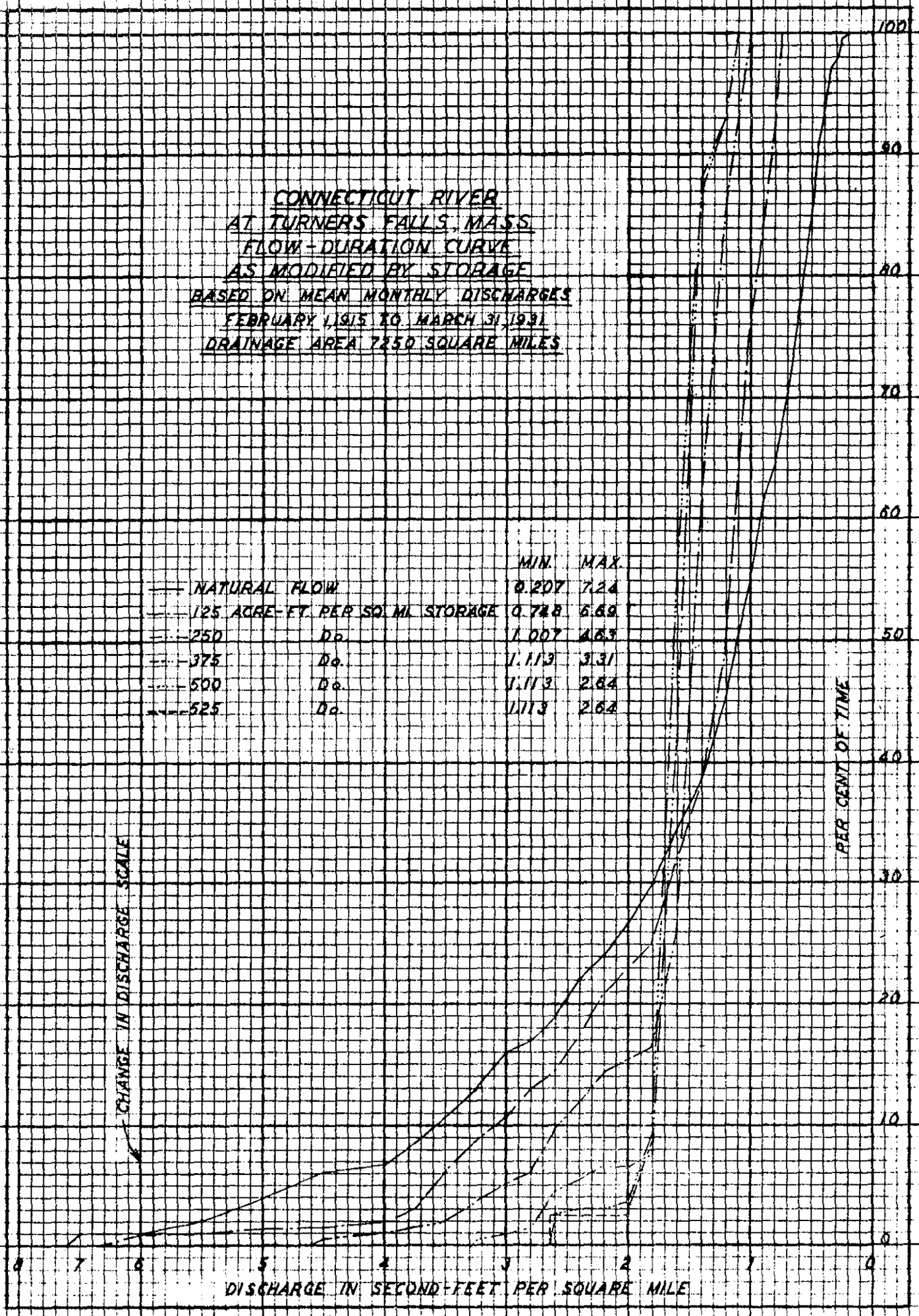

CONNECTICUT RIVER
AT TURNERS FALLS, MASS.
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
FEBRUARY 1, 1915 TO MARCH 31, 1931
DRAINAGE AREA 7250 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.207 7.24
125 ACRE-FT. PER SQ. MI. STORAGE 0.728 6.69
250 Do. 1.007 4.63
375 Do. 1.113 3.31
500 Do. 1.113 2.64
525 Do. 1.113 2.64
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 61

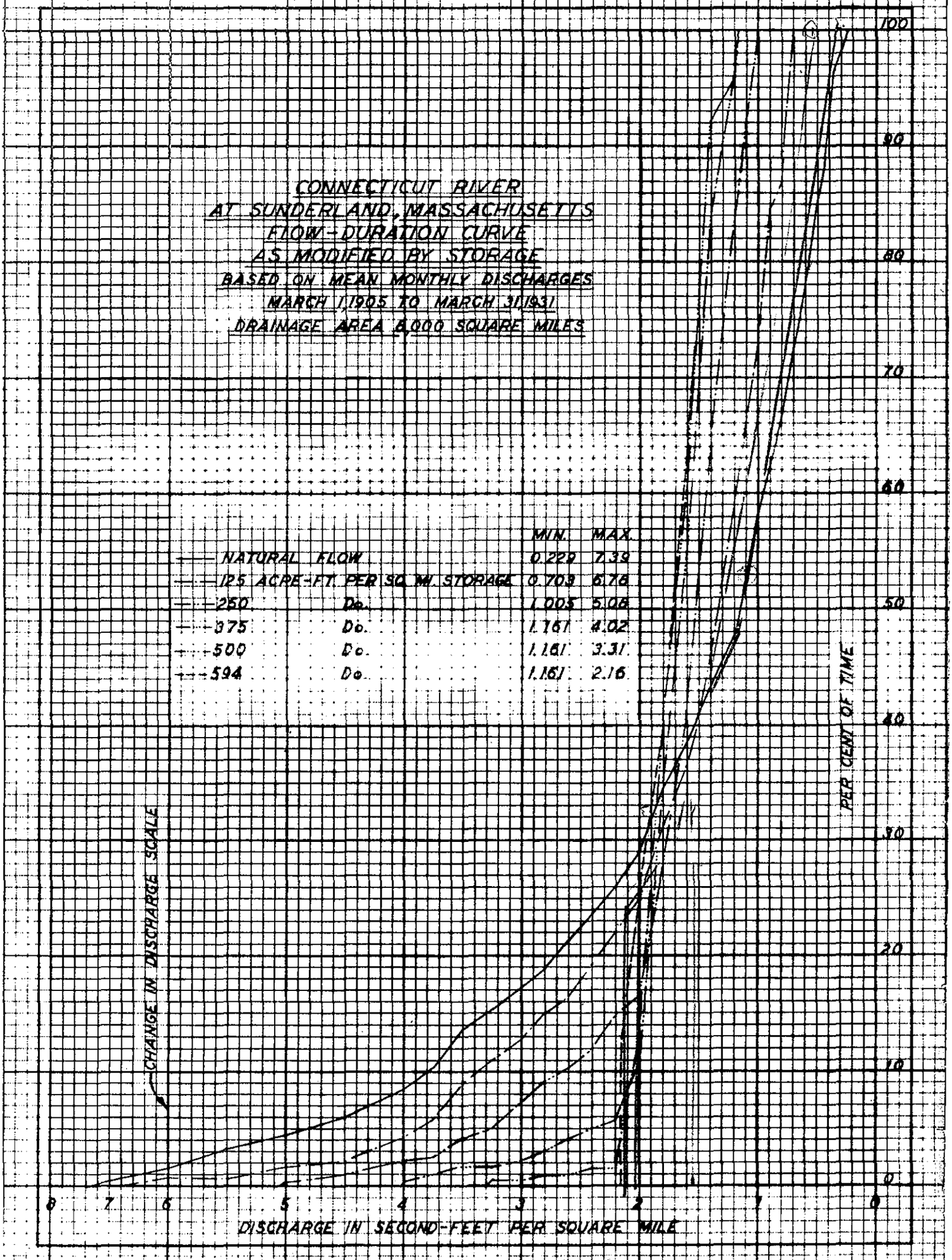


FIGURE 62 114

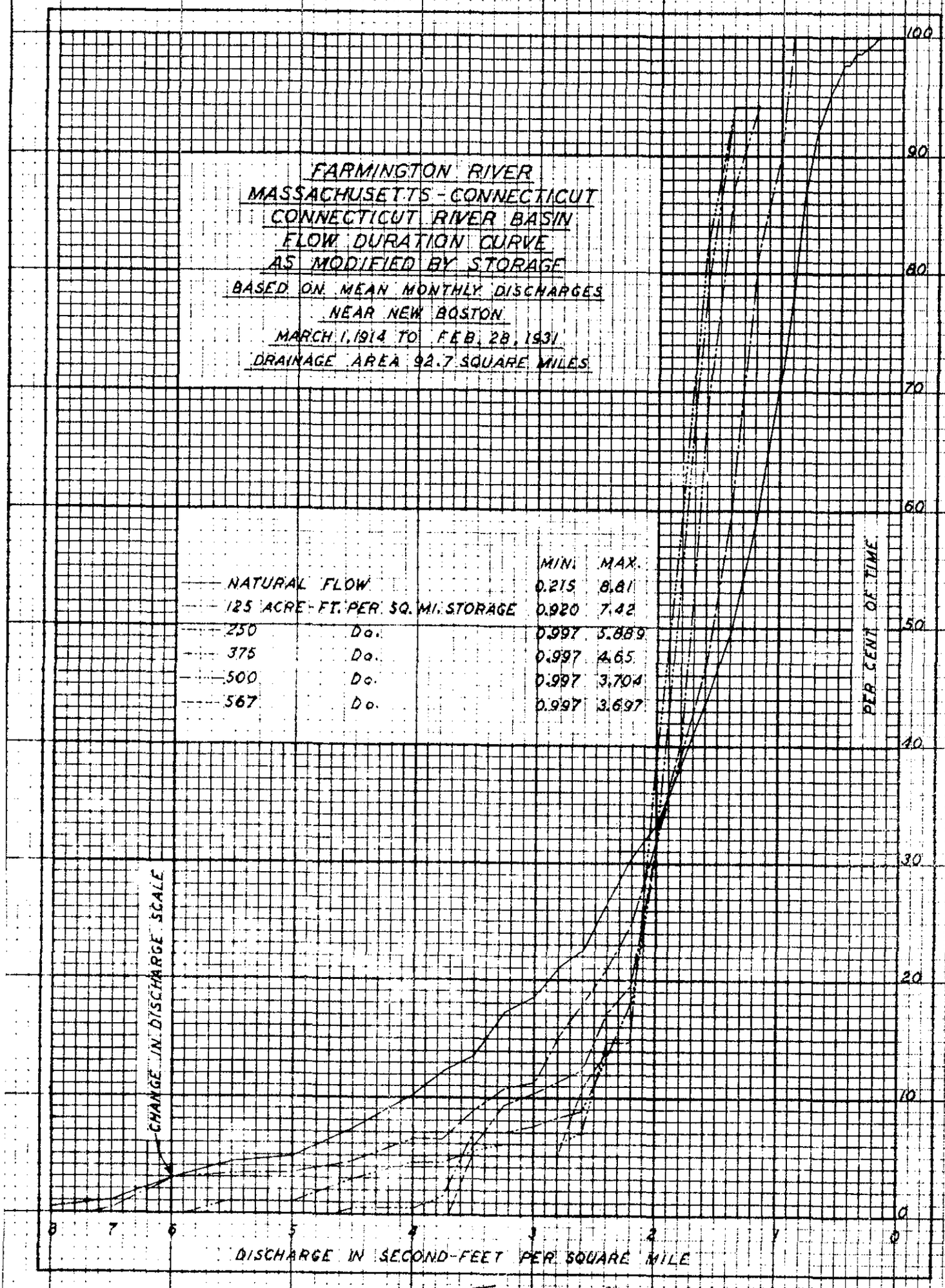

FARMINGTON RIVER
MASSACHUSETTS - CONNECTICUT
CONNECTICUT RIVER BASIN
FLOW DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR NEW BOSTON
MARCH 1, 1914 TO FEB. 28, 1931
DRAINAGE AREA 92.7 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.215 8.81
125 ACRE-FT. PER SQ. MI. STORAGE 0.920 7.42
250 Do. 0.997 5.889
375 Do. 0.997 4.65
500 Do. 0.997 3.704
567 Do. 0.997 3.697
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

Fig. 115

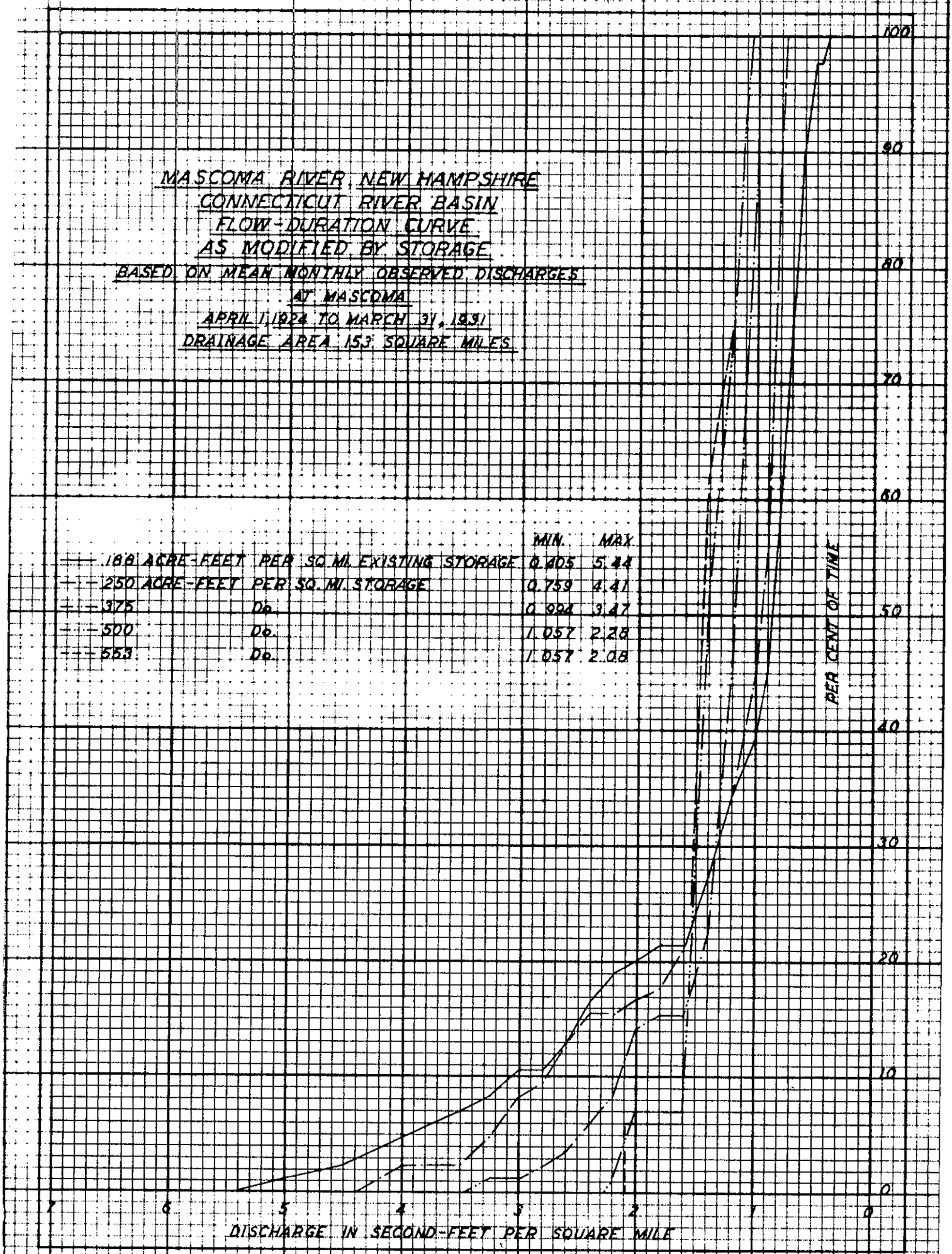
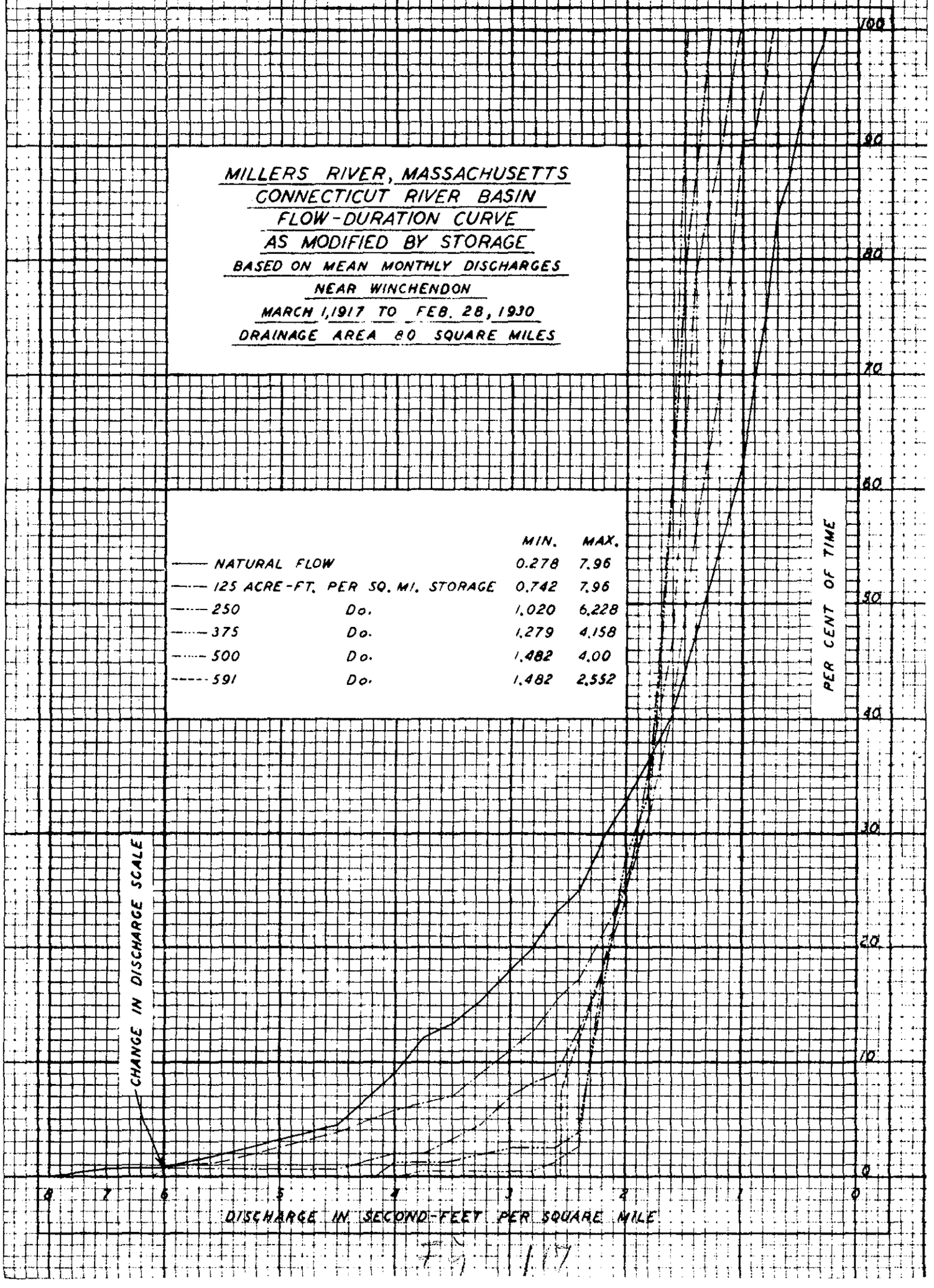
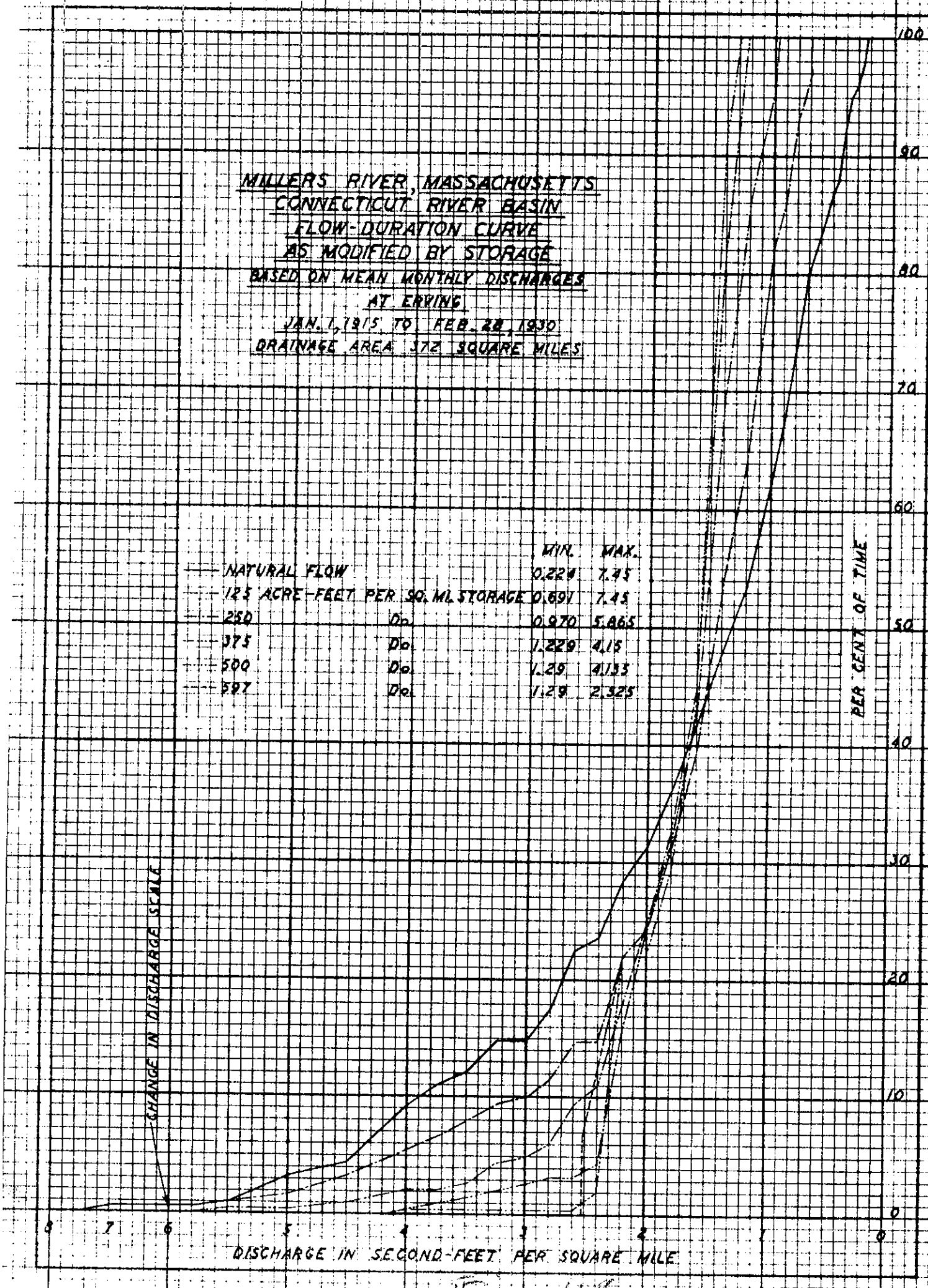

MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY OBSERVED DISCHARGES
AT MASCOMA
APRIL 1, 1924 TO MARCH 31, 1931
DRAINAGE AREA 153 SQUARE MILES
MIN. MAX.
188 ACRE-FEET PER SQ. MI. EXISTING STORAGE 0.605 5.44
250 ACRE-FEET PER SQ. MI. STORAGE 0.759 4.41
375 Do. 0.994 3.47
500 Do. 1.057 2.28
553 Do. 1.057 2.08
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

FIGURE 11.


MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR WINCHENDON
MARCH 1, 1917 TO FEB. 28, 1930
DRAINAGE AREA 80 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.278 7.96
125 ACRE-FT. PER SQ. MI. STORAGE 0.742 7.96
250 Do. 1.020 6.228
375 Do. 1.279 4.158
500 Do. 1.482 4.00
591 Do. 1.482 2.552
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
CHANGE IN DISCHARGE SCALE
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE


MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT ERVING
JAN. 1, 1915 TO FEB. 28, 1930
DRAINAGE AREA 372 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.224 7.45
125 ACRE-FEET PER SQ. MI. STORAGE 0.691 7.45
250 Do. 0.970 5.865
375 Do. 1.229 4.15
500 Do. 1.29 4.135
597 Do. 1.29 2.525
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

124 118

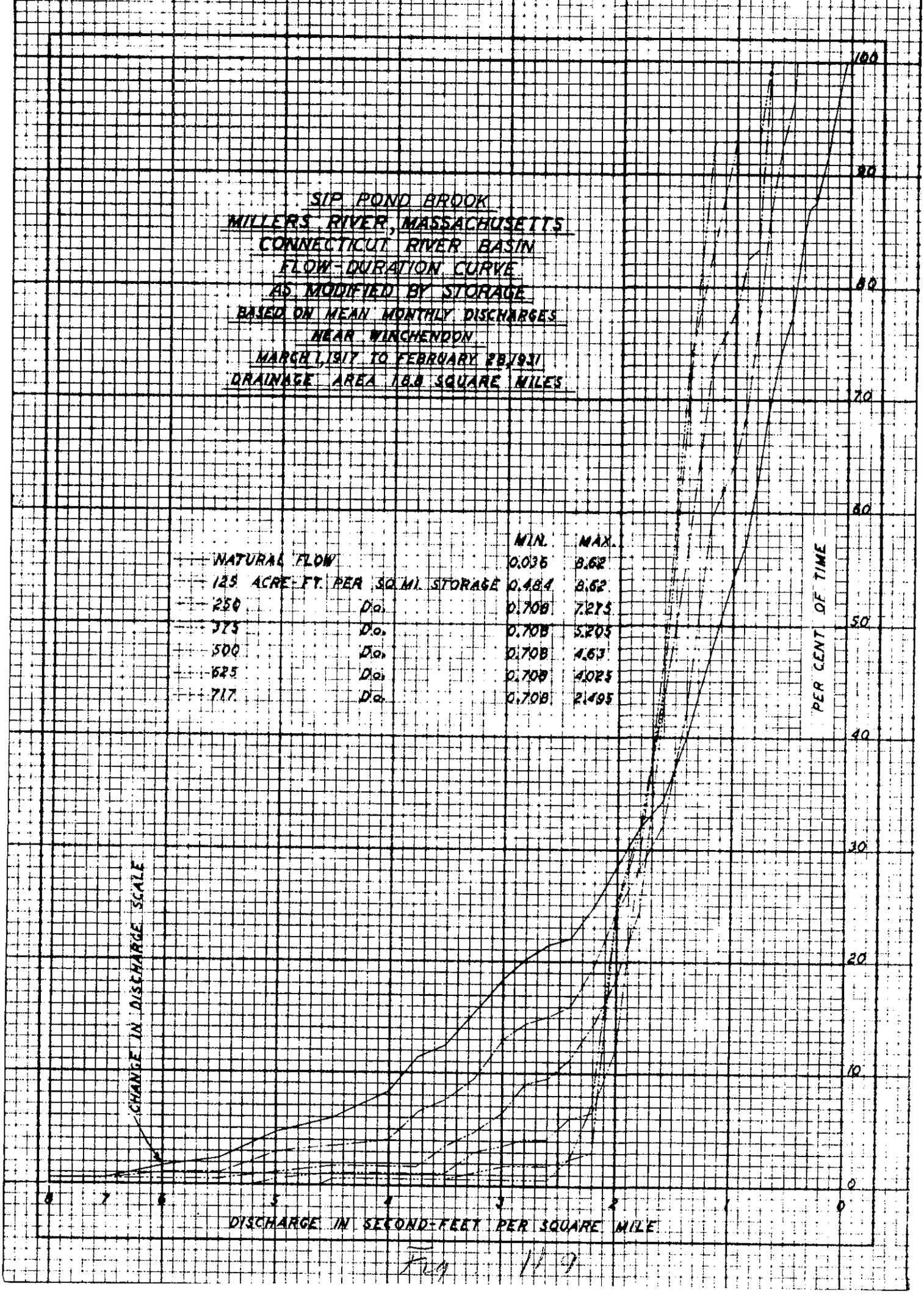

SIP POND BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR WINCHENDON
MARCH 1, 1917 TO FEBRUARY 28, 1931
DRAINAGE AREA 18.8 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.036 8.62
125 ACRE-FT. PER SQ. MI. STORAGE 0.484 8.62
250 Do. 0.708 7.275
375 Do. 0.708 5.205
500 Do. 0.708 4.63
625 Do. 0.708 4.025
717 Do. 0.708 2.495
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

Fig 119

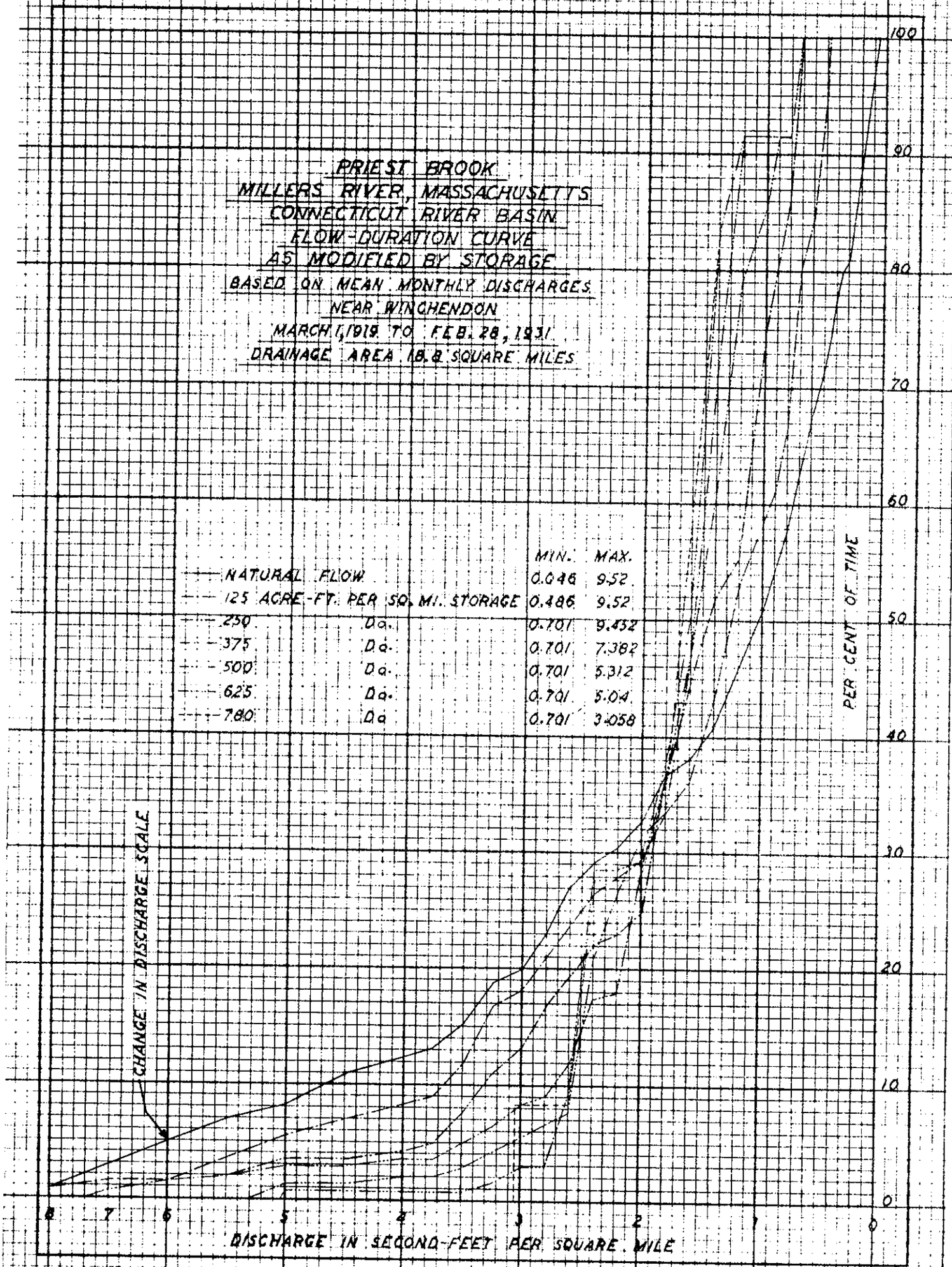
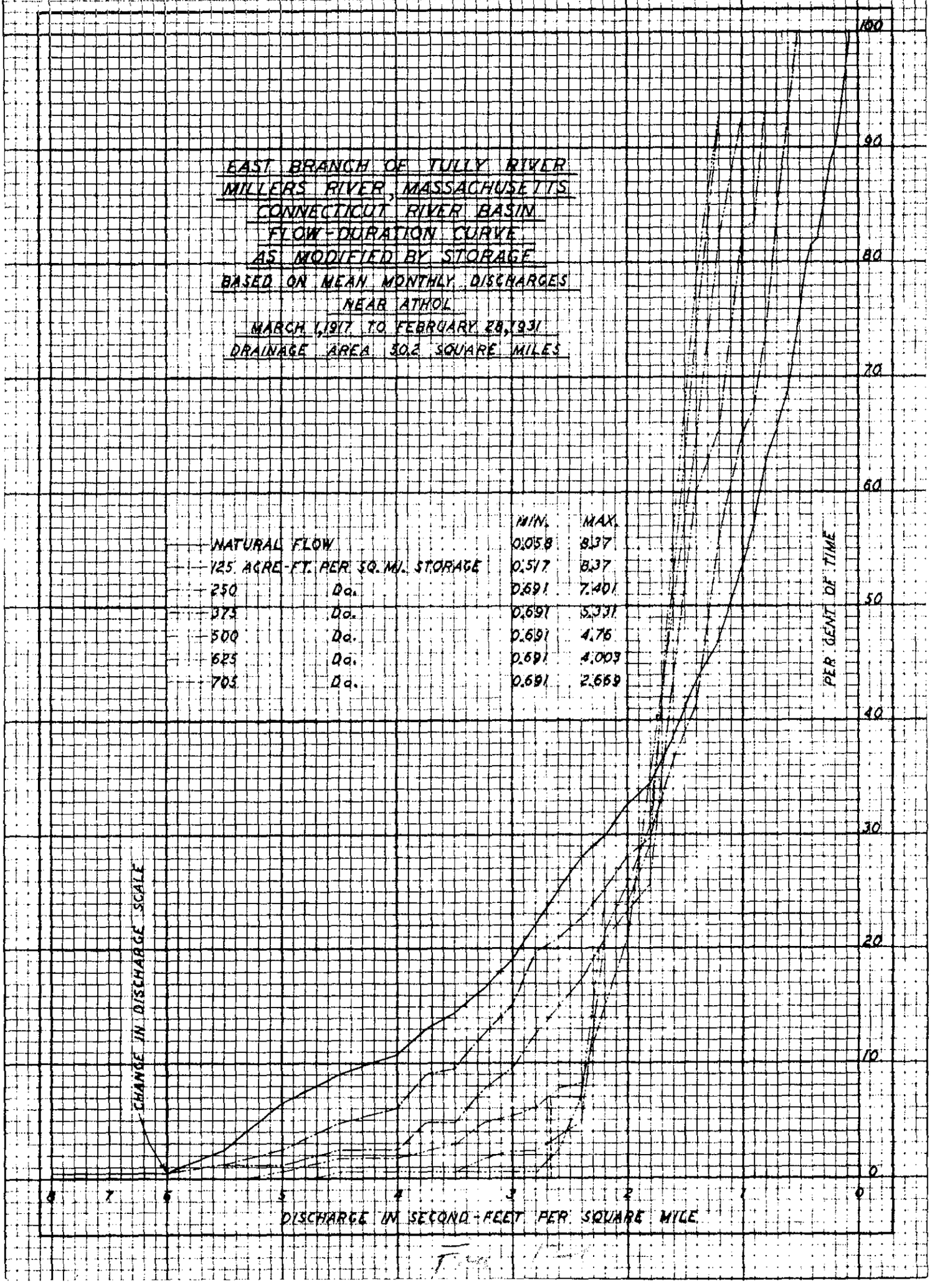
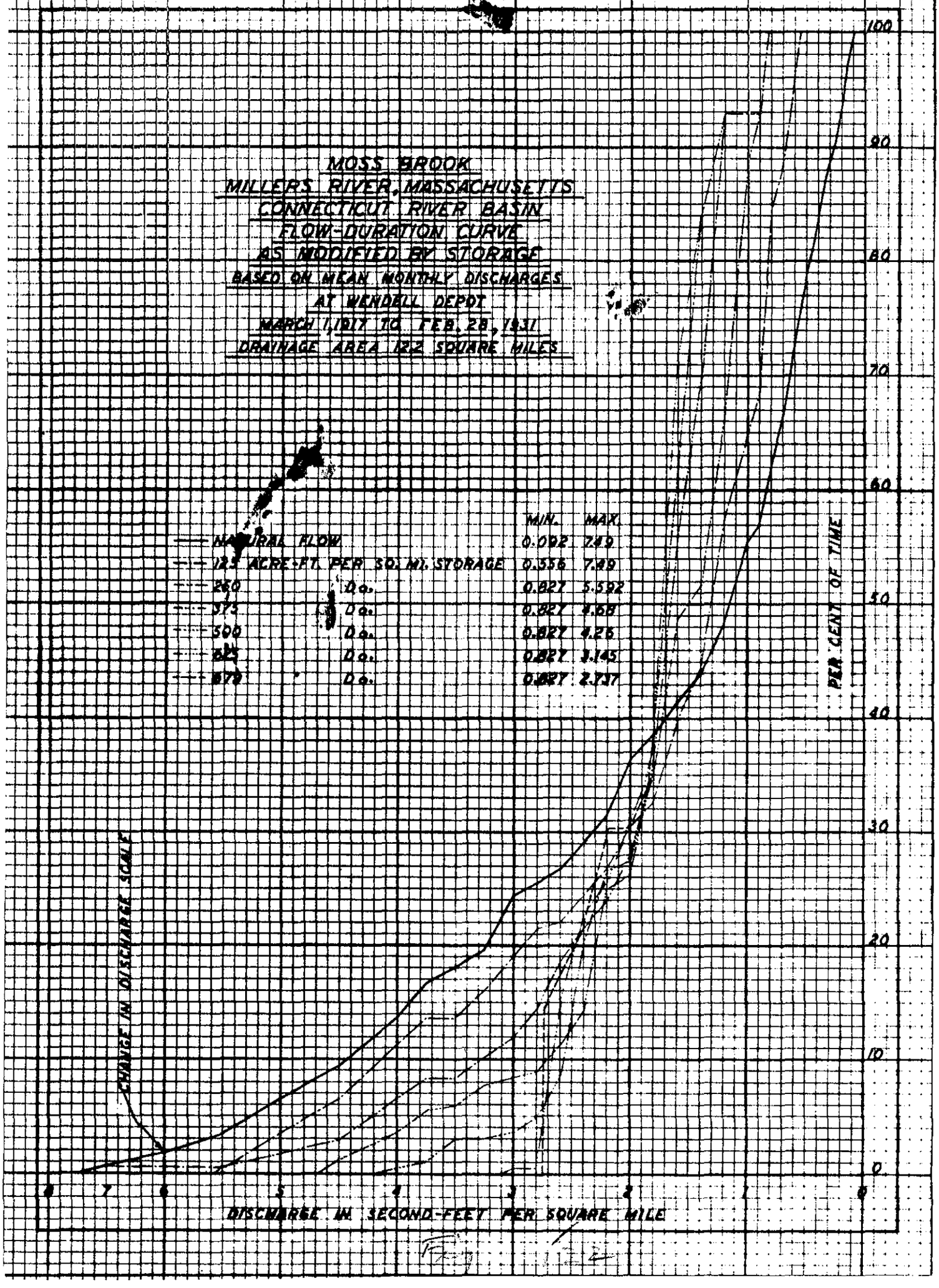

PRIEST BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR WINCHENDON
MARCH 1, 1919 TO FEB. 28, 1931
DRAINAGE AREA 18.8 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.046 9.52
125 ACRE-FT. PER SQ. MI. STORAGE 0.486 9.52
250 Do. 0.701 9.452
375 Do. 0.701 7.382
500 Do. 0.701 5.312
625 Do. 0.701 5.04
780 Do 0.701 3.058
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

Fig. 1


EAST BRANCH OF TULLY RIVER
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR ATHOL
MARCH 1, 1917 TO FEBRUARY 28, 1931
DRAINAGE AREA 50.2 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.058 8.37
125 ACRE-FT. PER SQ. MI. STORAGE 0.517 8.37
250 Do. 0.691 7.401
375 Do. 0.691 5.331
500 Do. 0.691 4.76
625 Do. 0.691 4.003
705 Do. 0.691 2.669
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0


MOSS BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT WENDELL DEPOT
MARCH 1, 1917 TO FEB. 28, 1931
DRAINAGE AREA 12.2 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.092 7.49
125 ACRE-FT. PER SQ. MI. STORAGE 0.556 7.49
250 Do. 0.827 5.592
375 Do. 0.827 4.68
500 Do. 0.827 4.26
625 Do. 0.827 3.145
679 Do. 0.827 2.737
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

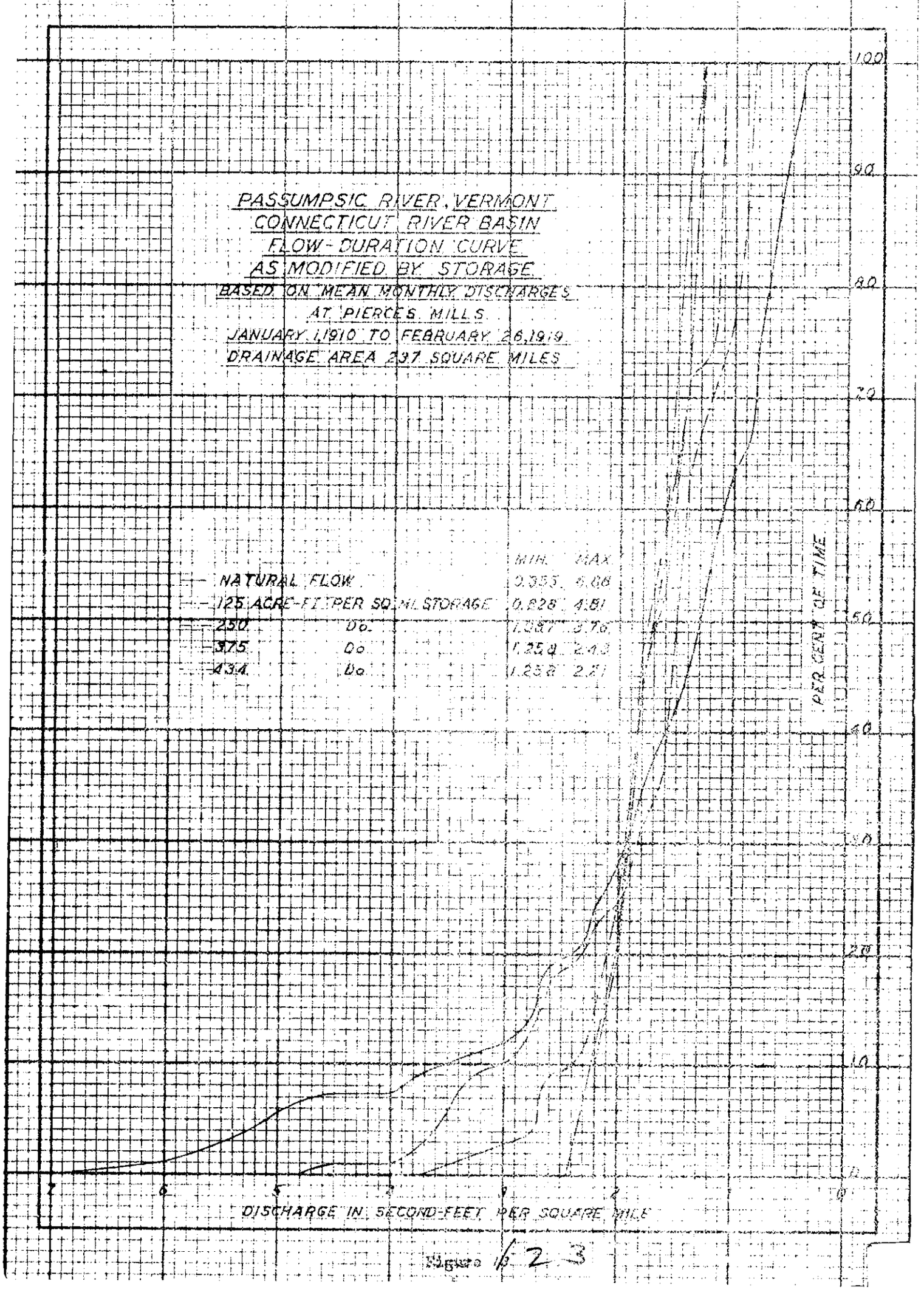
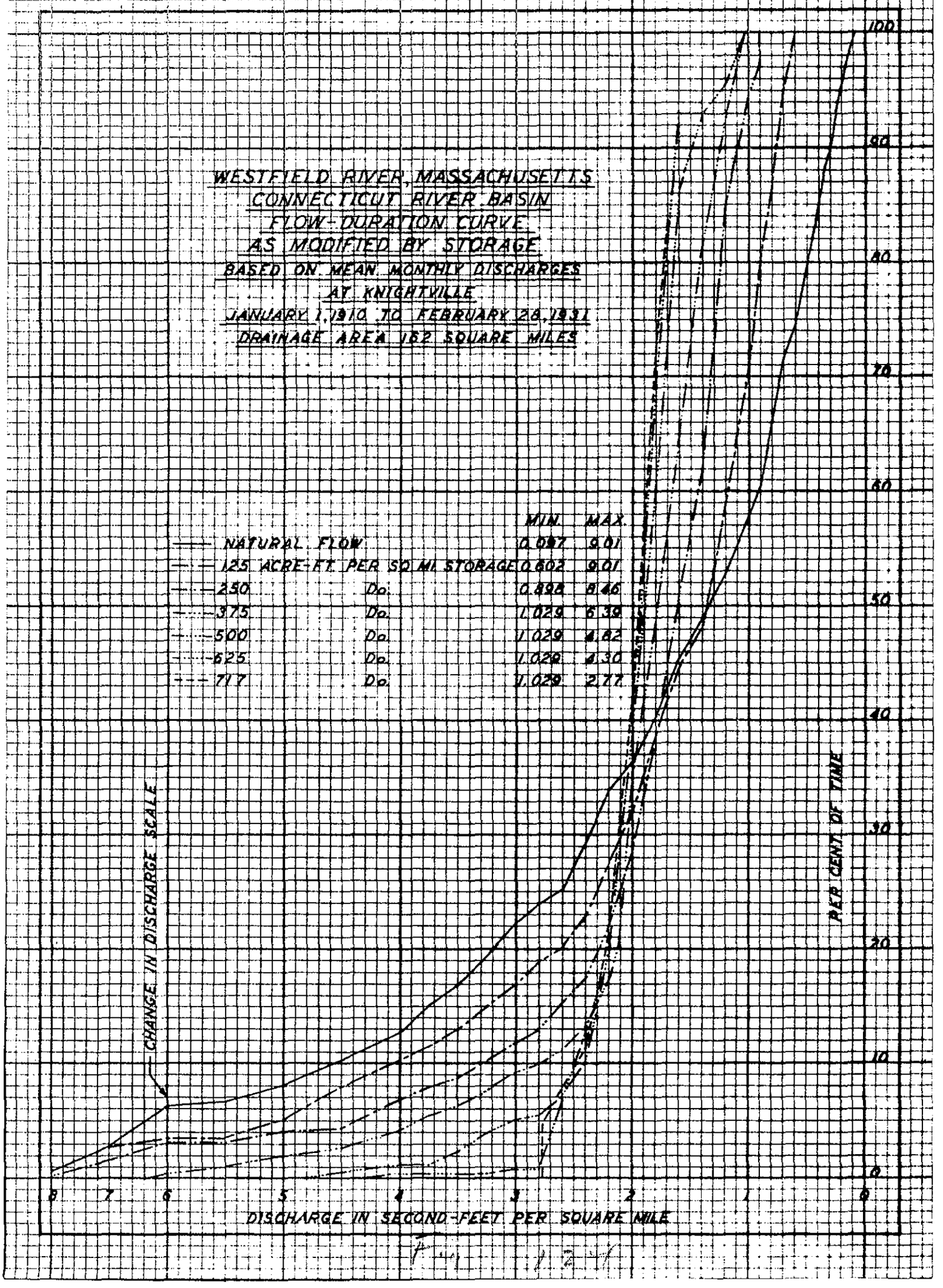

PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT PIERCES MILLS
JANUARY 1, 1910 TO FEBRUARY 28, 1919
DRAINAGE AREA 237 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.355 6.08
125 ACRE-FT. PER SQ. MI. STORAGE 0.828 4.81
250 Do. 1.087 3.76
375 Do. 1.258 2.43
434 Do. 1.252 2.21
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Figure 23


WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT KNIGHTVILLE
JANUARY 1, 1910 TO FEBRUARY 28, 1931
DRAINAGE AREA 162 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.097 9.01
125 ACRE-FT. PER SQ. MI. STORAGE 0.602 9.01
250 Do. 0.898 8.46
375 Do. 1.029 6.39
500 Do. 1.029 4.82
625 Do. 1.029 4.30
717 Do. 1.029 2.77
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

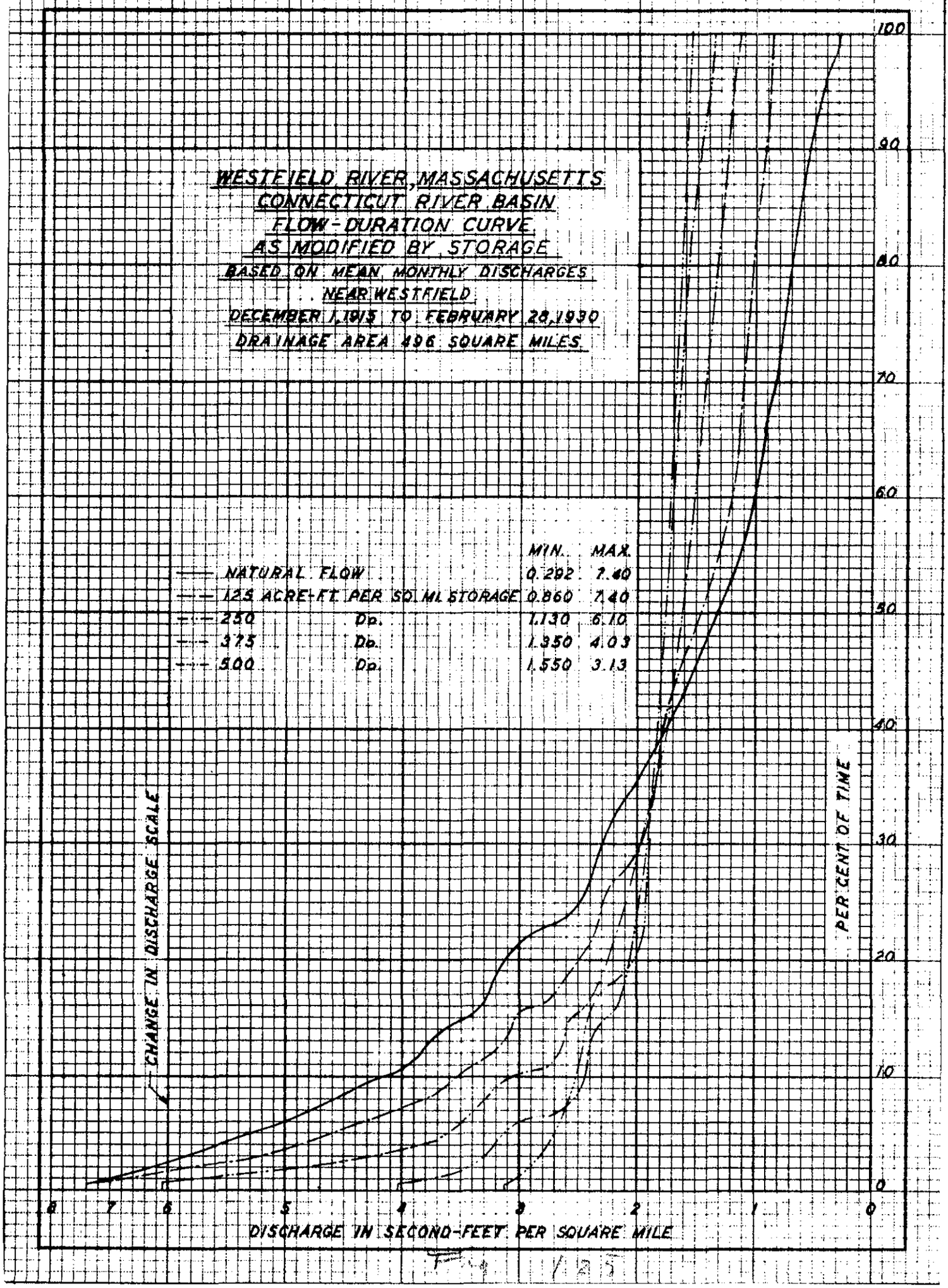

WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
NEAR WESTFIELD
DECEMBER 1, 1915 TO FEBRUARY 28, 1930
DRAINAGE AREA 496 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.292 7.40
125 ACRE-FT. PER SQ. MI. STORAGE 0.860 7.40
250 Do. 1.130 6.10
375 Do. 1.350 4.03
500 Do. 1.550 3.13
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0
DISCHARGE IN SECOND-FEET PER SQUARE MILE

Fig. 1

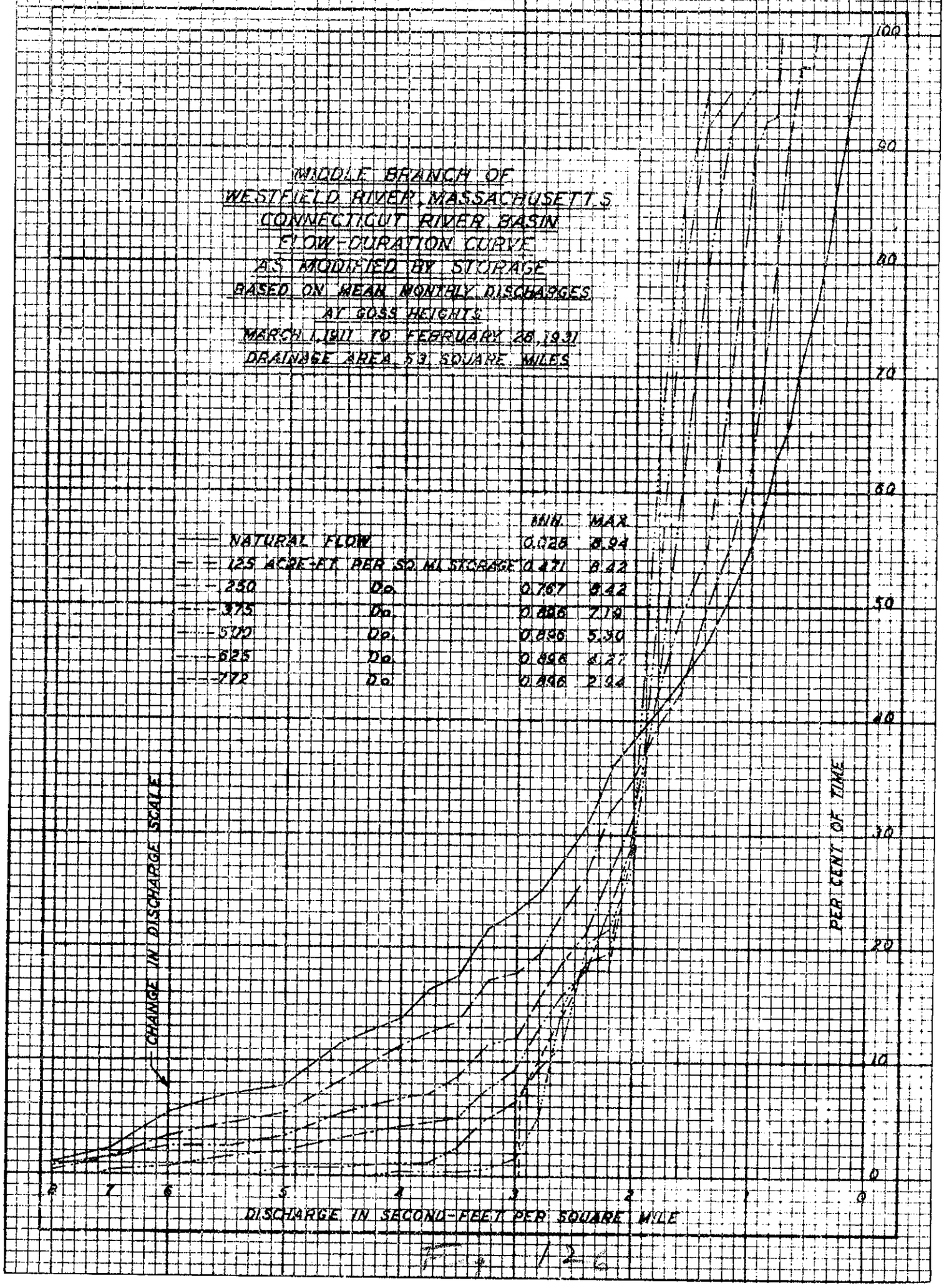

MIDDLE BRANCH OF
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
FLOW-DURATION CURVE
AS MODIFIED BY STORAGE
BASED ON MEAN MONTHLY DISCHARGES
AT GOSS HEIGHTS
MARCH 1, 1911 TO FEBRUARY 28, 1931
DRAINAGE AREA 53 SQUARE MILES
MIN. MAX.
NATURAL FLOW 0.028 8.94
125 ACRE-FT. PER SQ. MI. STORAGE 0.271 8.42
250 Do. 0.767 8.42
375 Do. 0.886 7.19
500 Do. 0.896 5.30
625 Do. 0.896 4.27
772 Do. 0.896 2.94
CHANGE IN DISCHARGE SCALE
PER CENT OF TIME
DISCHARGE IN SECOND-FEET PER SQUARE MILE
100
90
80
70
60
50
40
30
20
10
0
8
7
6
5
4
3
2
1
0

Fig. 12c

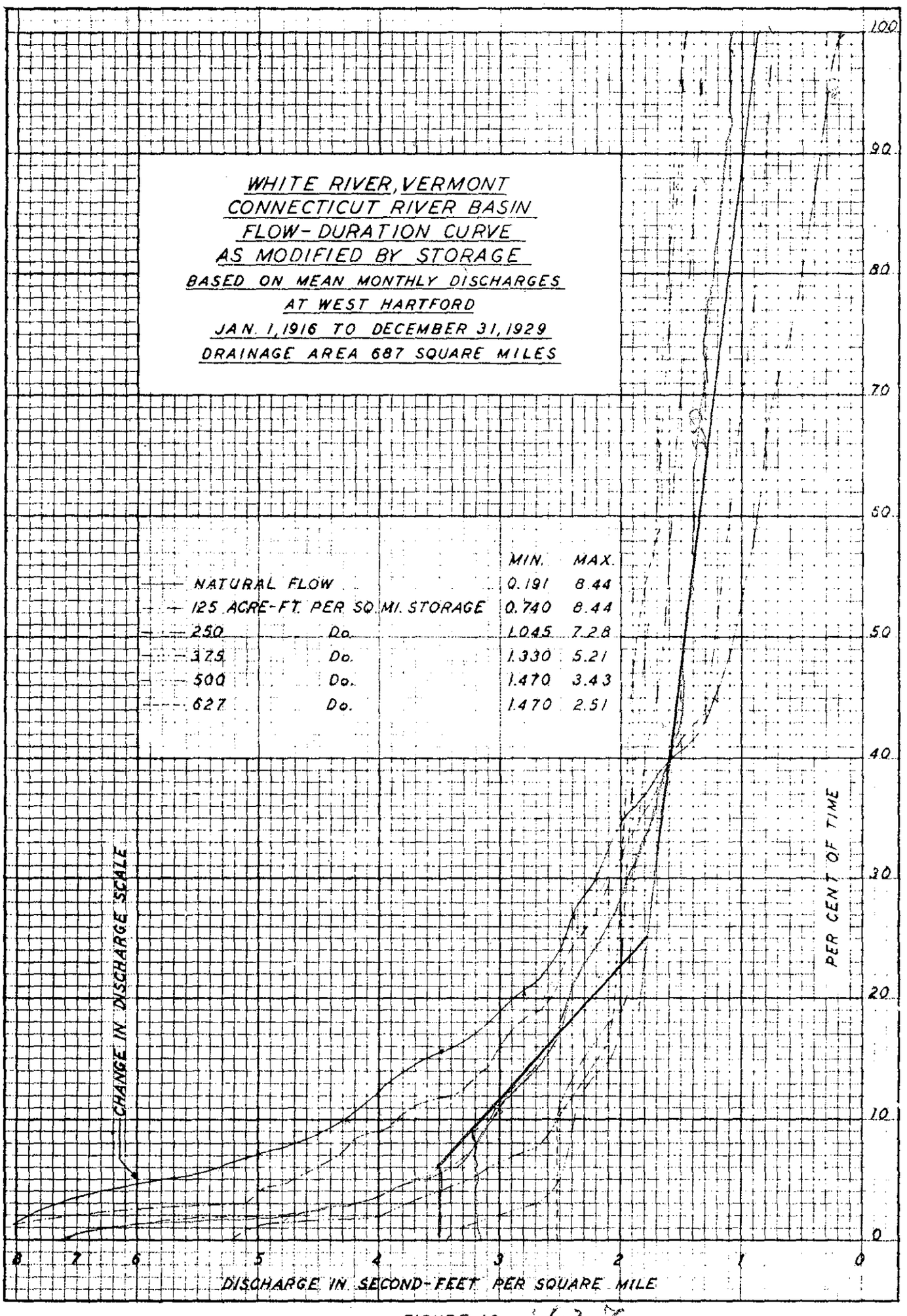
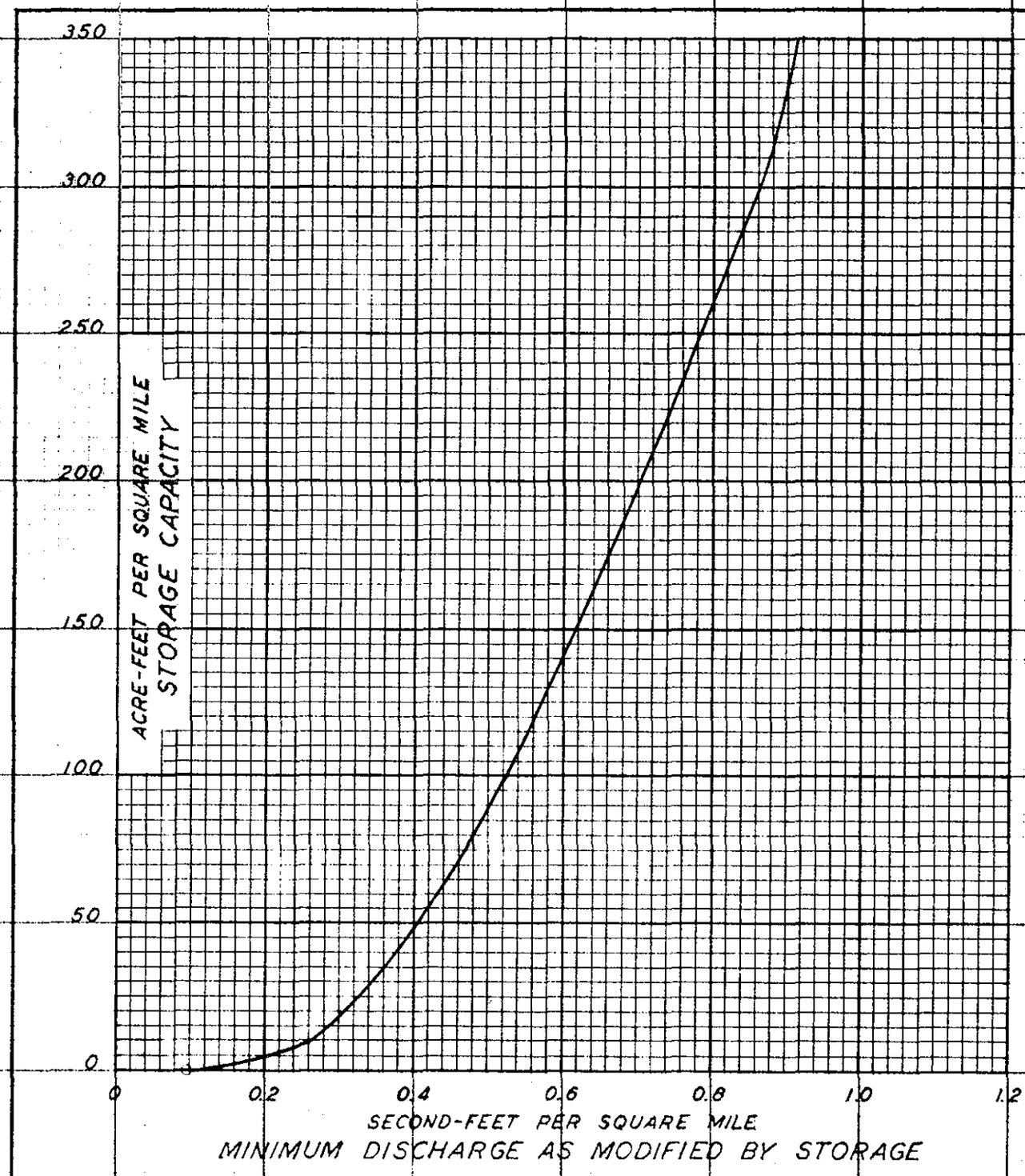
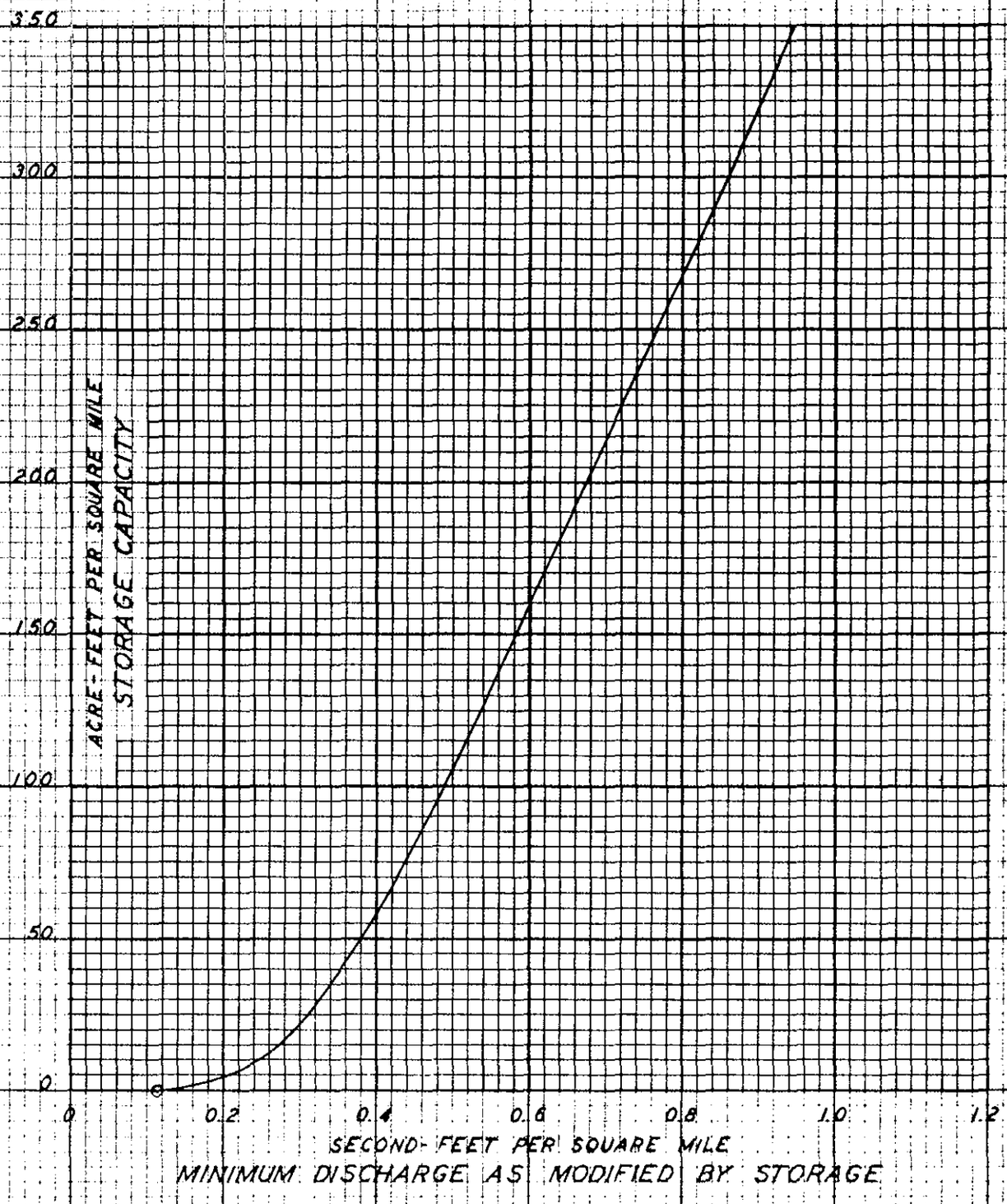


FIGURE ~~12~~ 127



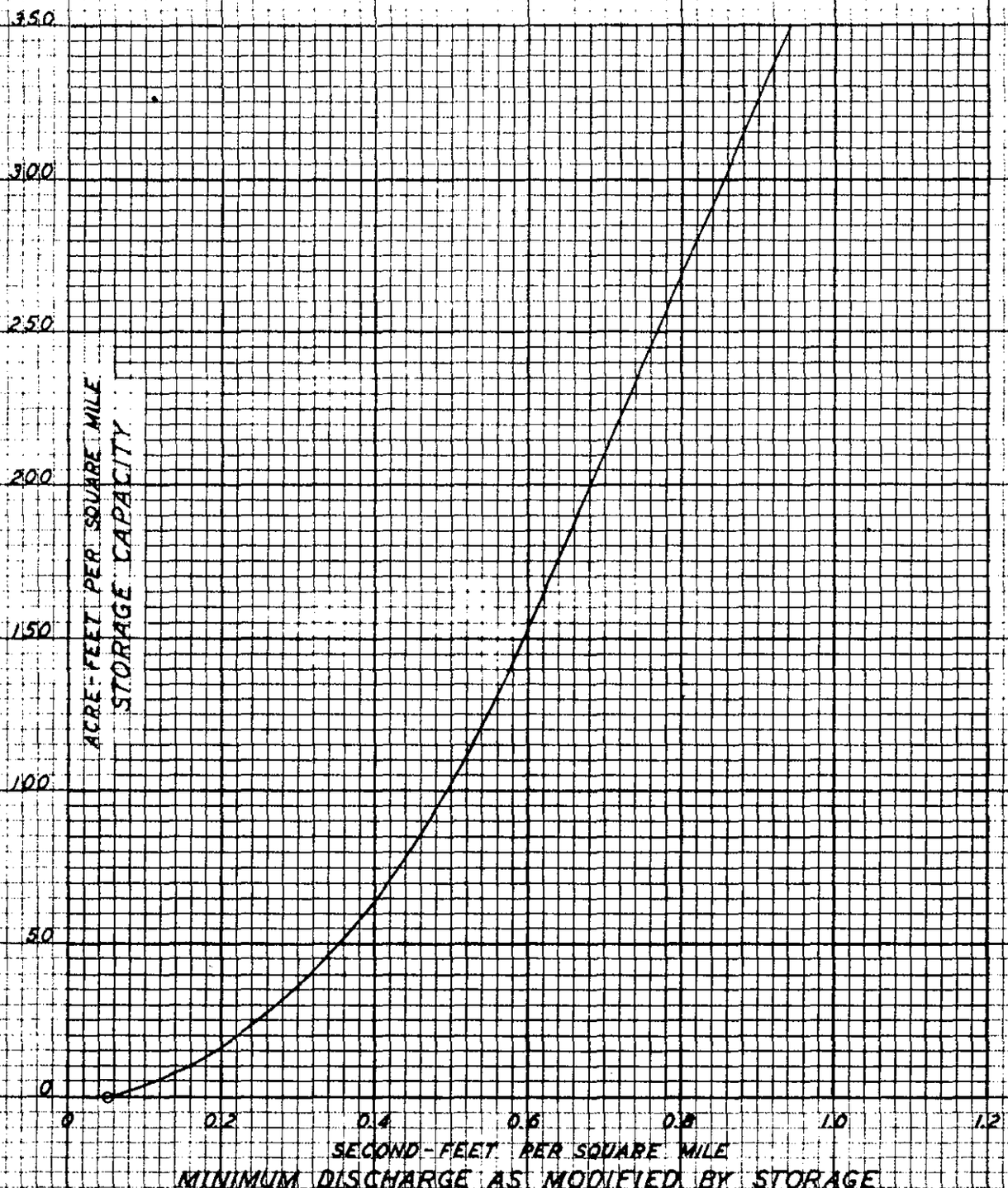
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT HINSDALE
JUNE 1, 1929 TO MARCH 22, 1931
PERIOD COVERED FEB. 1, 1915 TO FEB. 28, 1931
DRAINAGE AREA 420 SQUARE MILES

FIGURE ~~202~~ 128



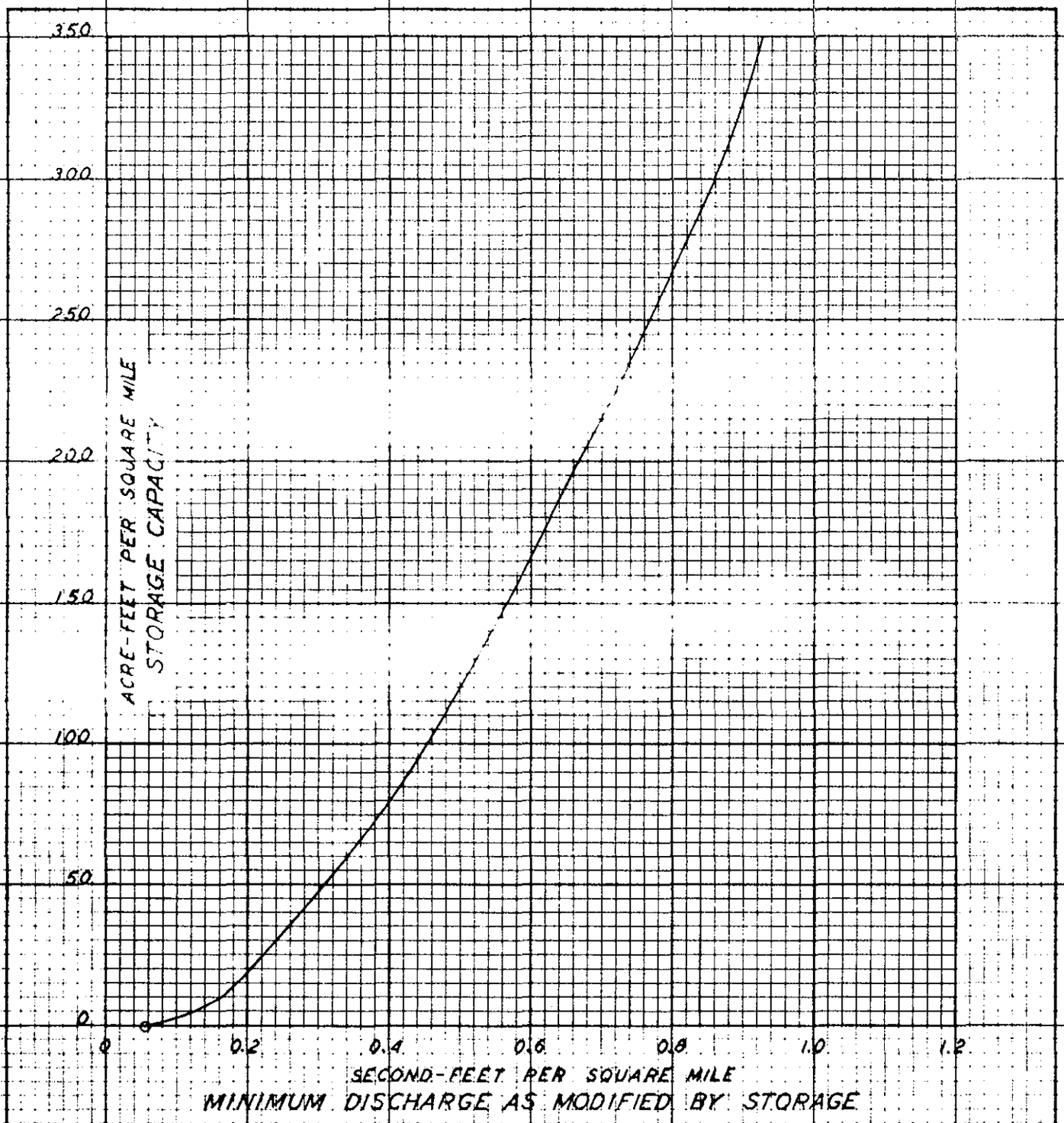
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR GILSUM
JUNE 9, 1924 TO FEB. 16, 1925, MAY 28, 1926 TO NOV. 20, 1926 AND
JUNE 1, 1929 TO MAY 4, 1931
DRAINAGE AREA 711. SQUARE MILES
PERIOD COVERED AUG. 1, 1922 TO SEPT. 30, 1931

FIGURE ~~29~~ 129



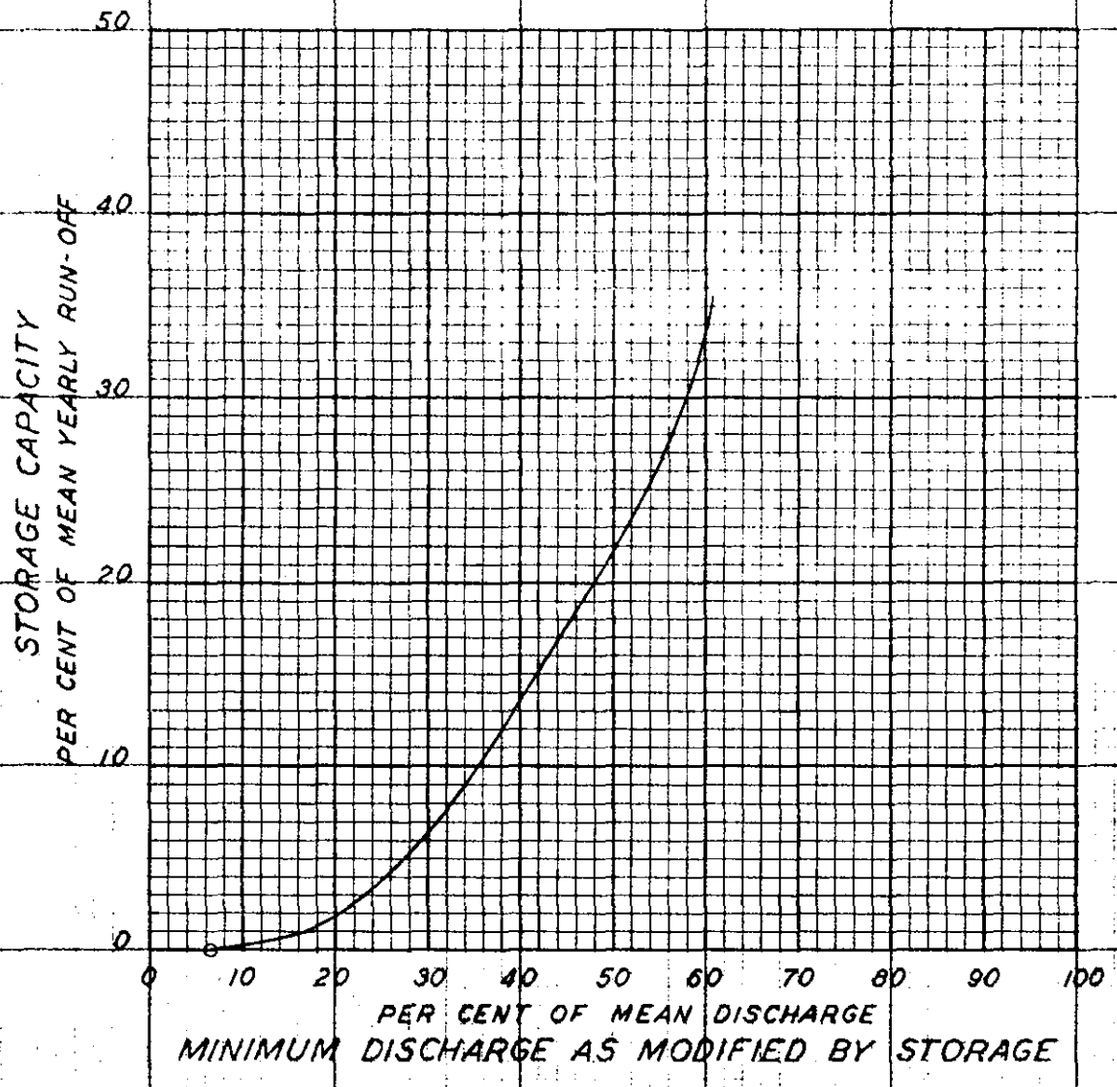
SOUTH BRANCH
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT WEBB, NEAR MARLBORO
JUNE 12, 1924 TO FEB. 16, 1925, JUNE 9, 1926 TO MARCH 25, 1927 AND
JUNE 1, 1930 TO APRIL 29, 1931
DRAINAGE AREA 36.6 SQUARE MILES
PERIOD COVERED NOV. 1, 1920 TO SEPT. 30, 1931.

FIGURE 24 130



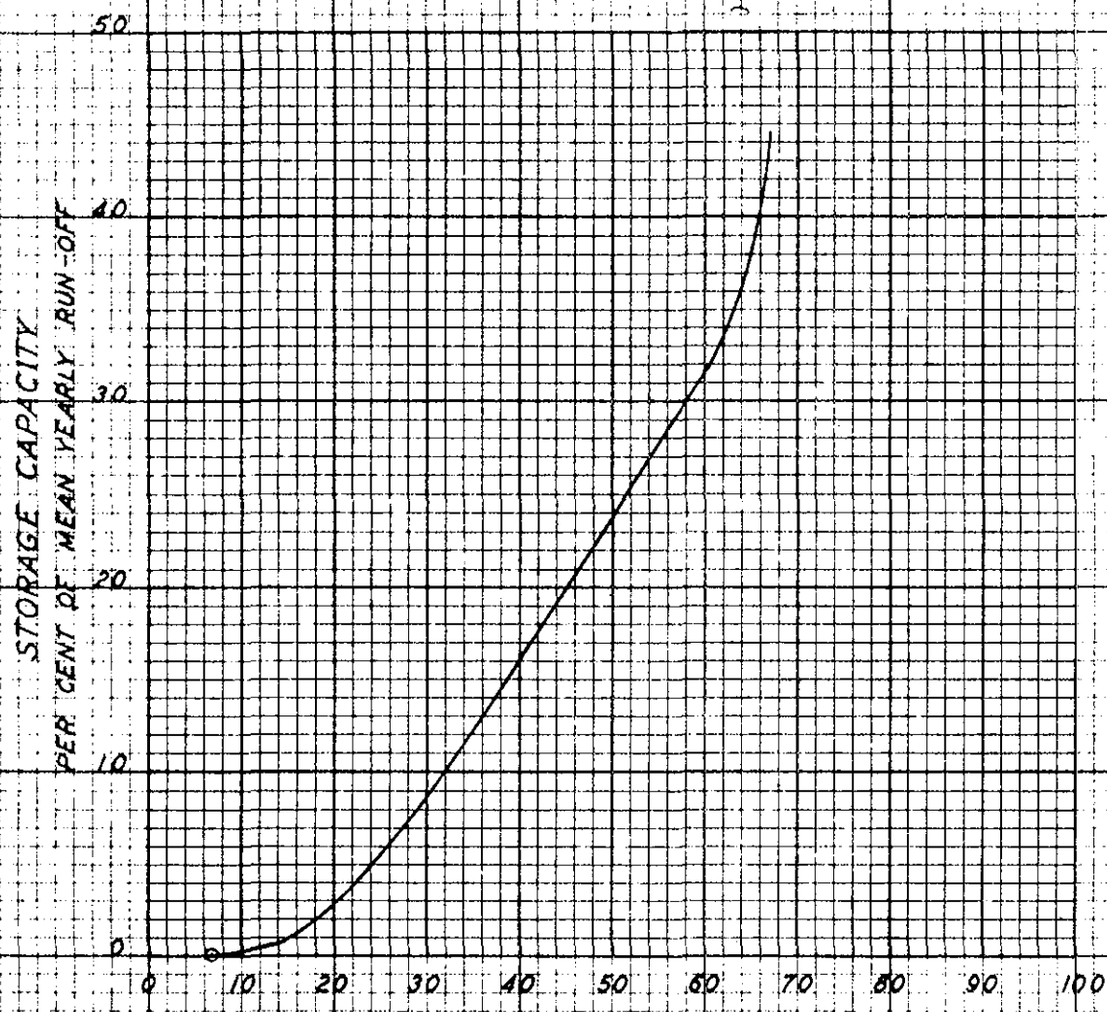
OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR KEENE
JUNE 1, 1924 TO MARCH 25, 1925 AND JUNE 1, 1929 TO JUNE 20, 1931
DRAINAGE AREA 41.8 SQUARE MILES
PERIOD COVERED OCT. 1, 1923 TO JUNE 20, 1931

FIGURE ~~25~~ 31



ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT HINSDALE
JUNE 1, 1929 TO MARCH 22, 1931
PERIOD COVERED FEB. 1, 1915 TO FEB. 28, 1931
DRAINAGE AREA 420 SQUARE MILES

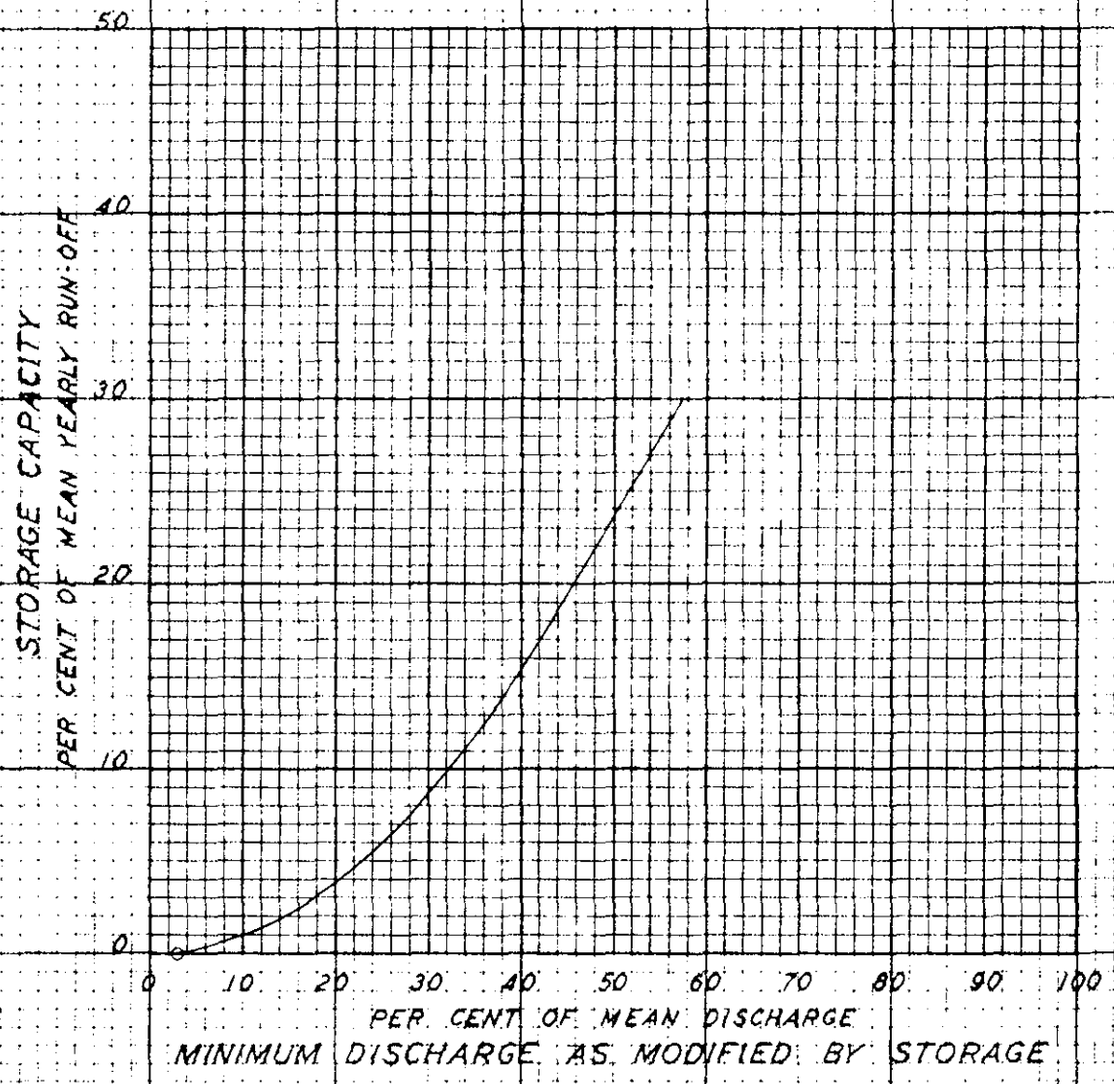
FIGURE ~~26~~ 132



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

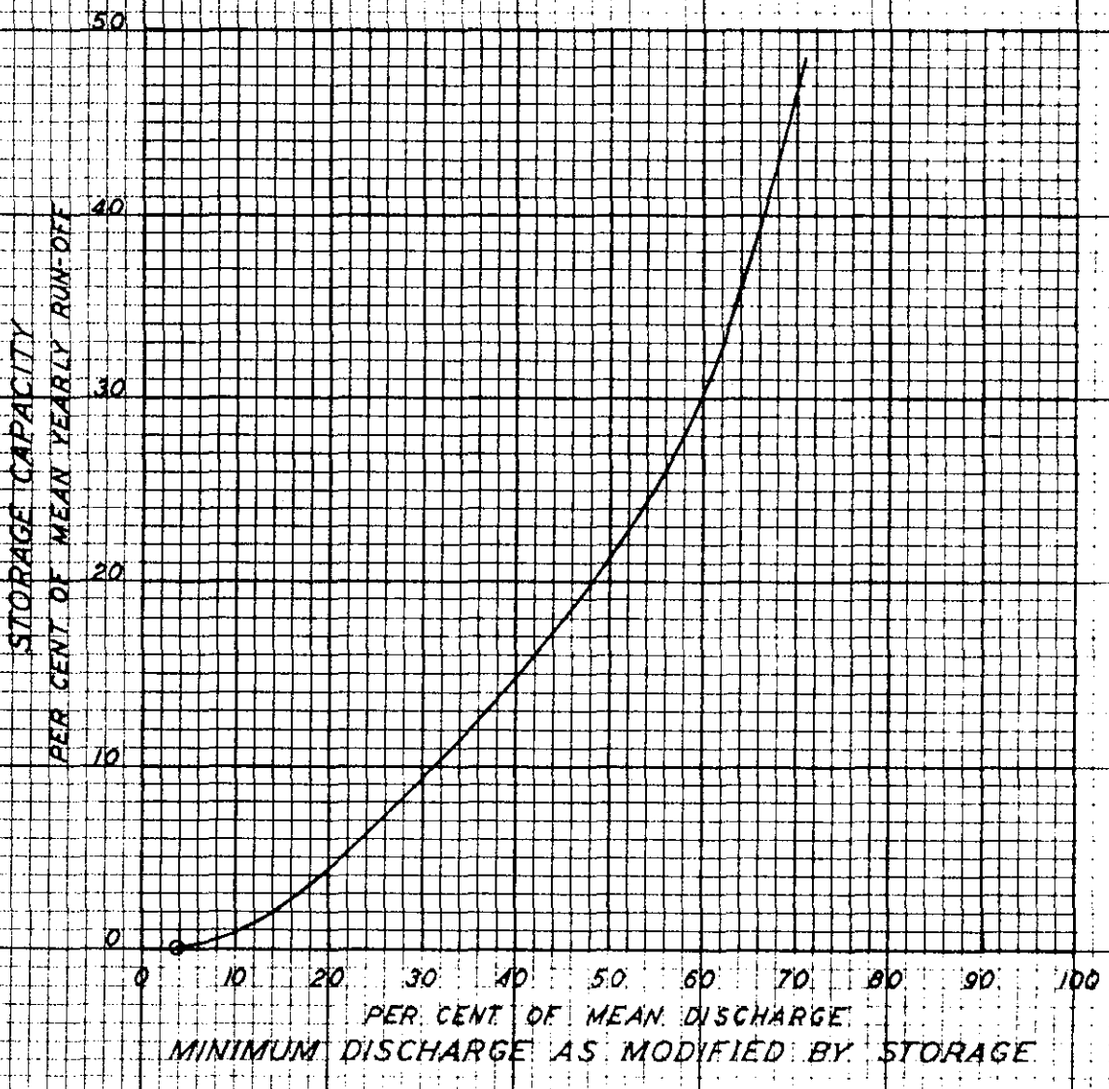
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR GILSUM
JUNE 9, 1924 TO FEB. 16, 1925, MAY 28, 1926 TO NOV. 20, 1926 AND
JUNE 1, 1929 TO JUNE 28, 1931
DRAINAGE AREA 71.1 SQUARE MILES
PERIOD COVERED AUG. 1, 1922 TO SEPT. 30, 1931

FIGURE 27



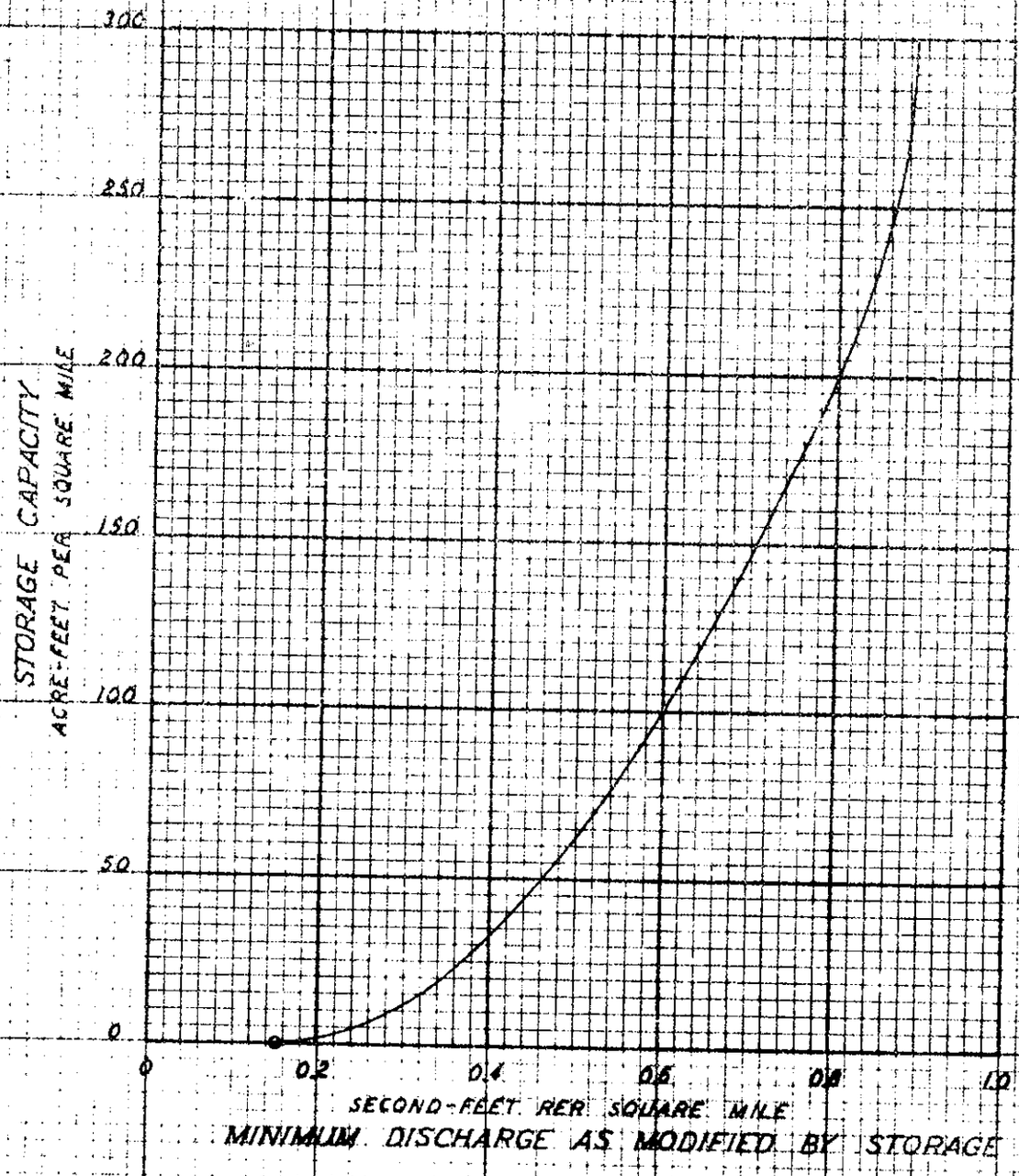
SOUTH BRANCH
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF STORAGE
ON MINIMUM DISCHARGE (PERCENTAGE BASIS)
BASED ON DAILY DISCHARGES AT WEBB, NEAR MARLBORO
JUNE 12, 1924 TO FEB. 16, 1925, JUNE 9, 1926 TO MARCH 25, 1927 AND
JUNE 1, 1930 TO APRIL 29, 1931
DRAINAGE AREA 36.6 SQUARE MILES
PERIOD COVERED NOV. 1, 1920 TO SEPT. 30, 1931

FIGURE ~~28~~ 134



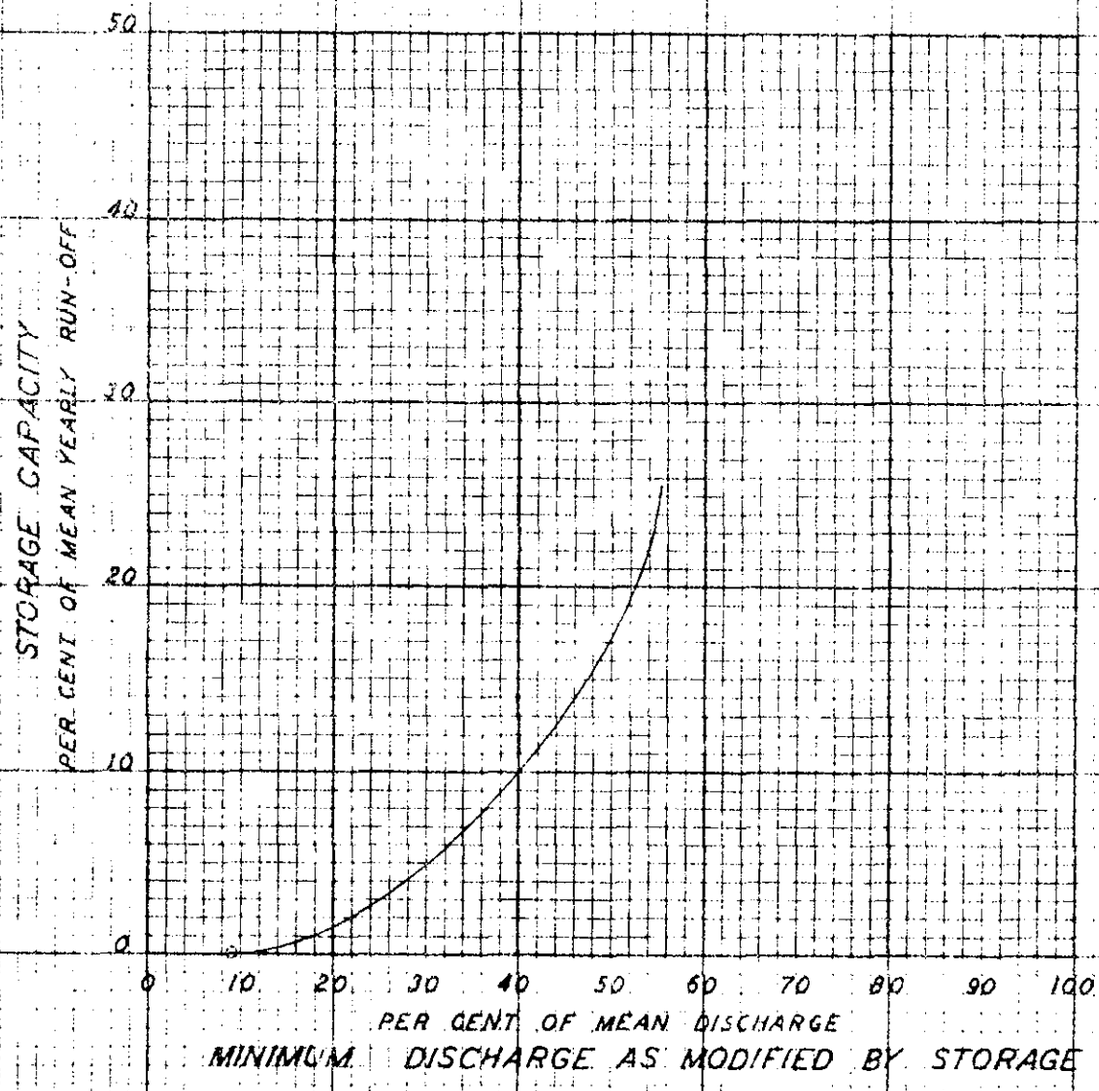
OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF STORAGE
ON MINIMUM DISCHARGE (PERCENTAGE BASIS)
BASED ON DAILY DISCHARGES NEAR KEENE
JUNE 1, 1924 TO MARCH 25, 1925 AND JUNE 1, 1929 TO JUNE 20, 1931
DRAINAGE AREA 41.8 SQUARE MILES
PERIOD COVERED OCT. 1, 1923 TO JUNE 20, 1931

FIGURE ~~29~~ 135



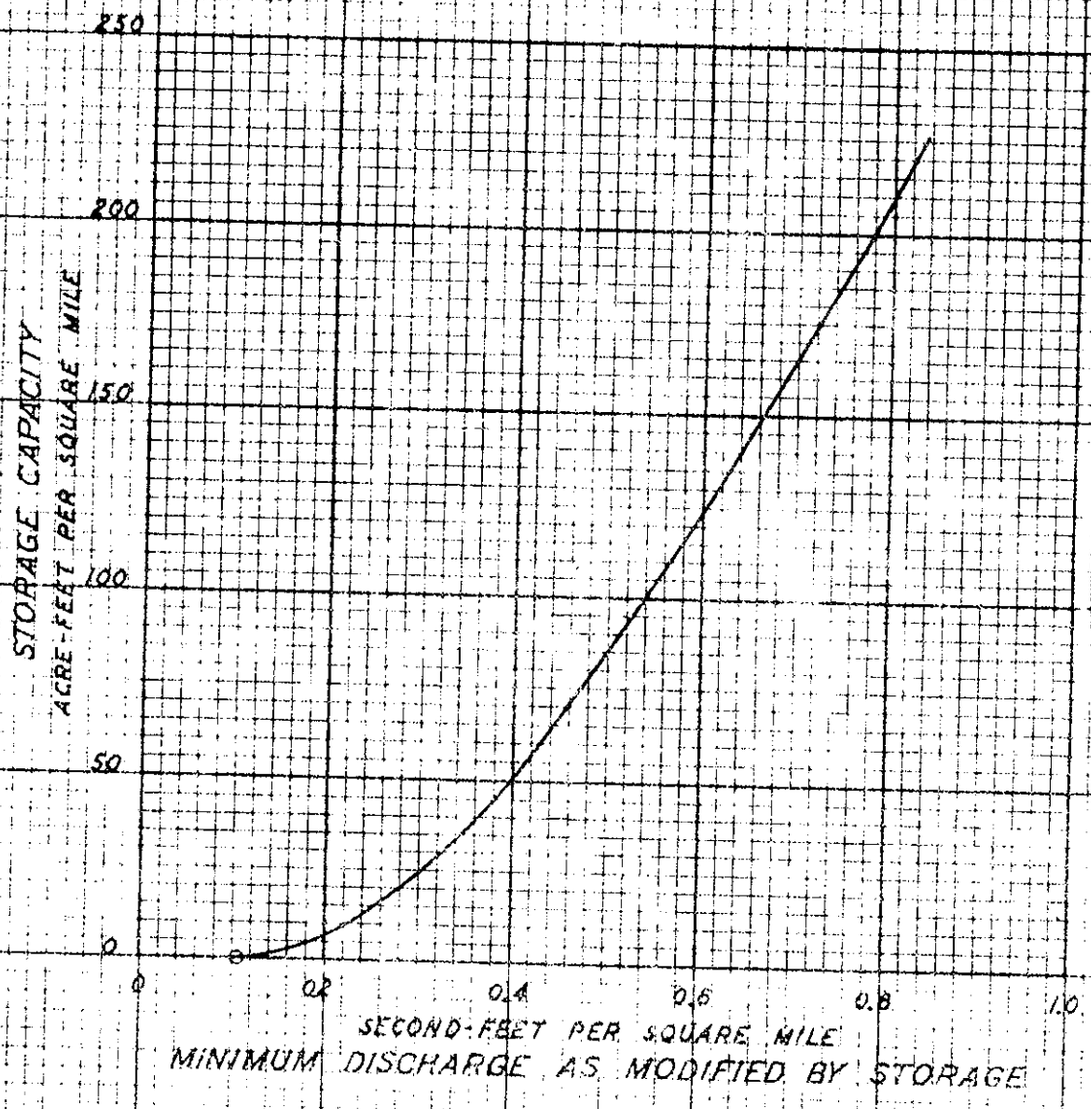
SWIFT RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT WEST WARE
JUNE 9, 1914 TO MARCH 31, 1915; JULY 1, 1929 TO MAY 31, 1931
DRAINAGE AREA 186 SQUARE MILES
PERIOD COVERED OCTOBER 1, 1912 TO SEPTEMBER 30, 1931

Fig. 136



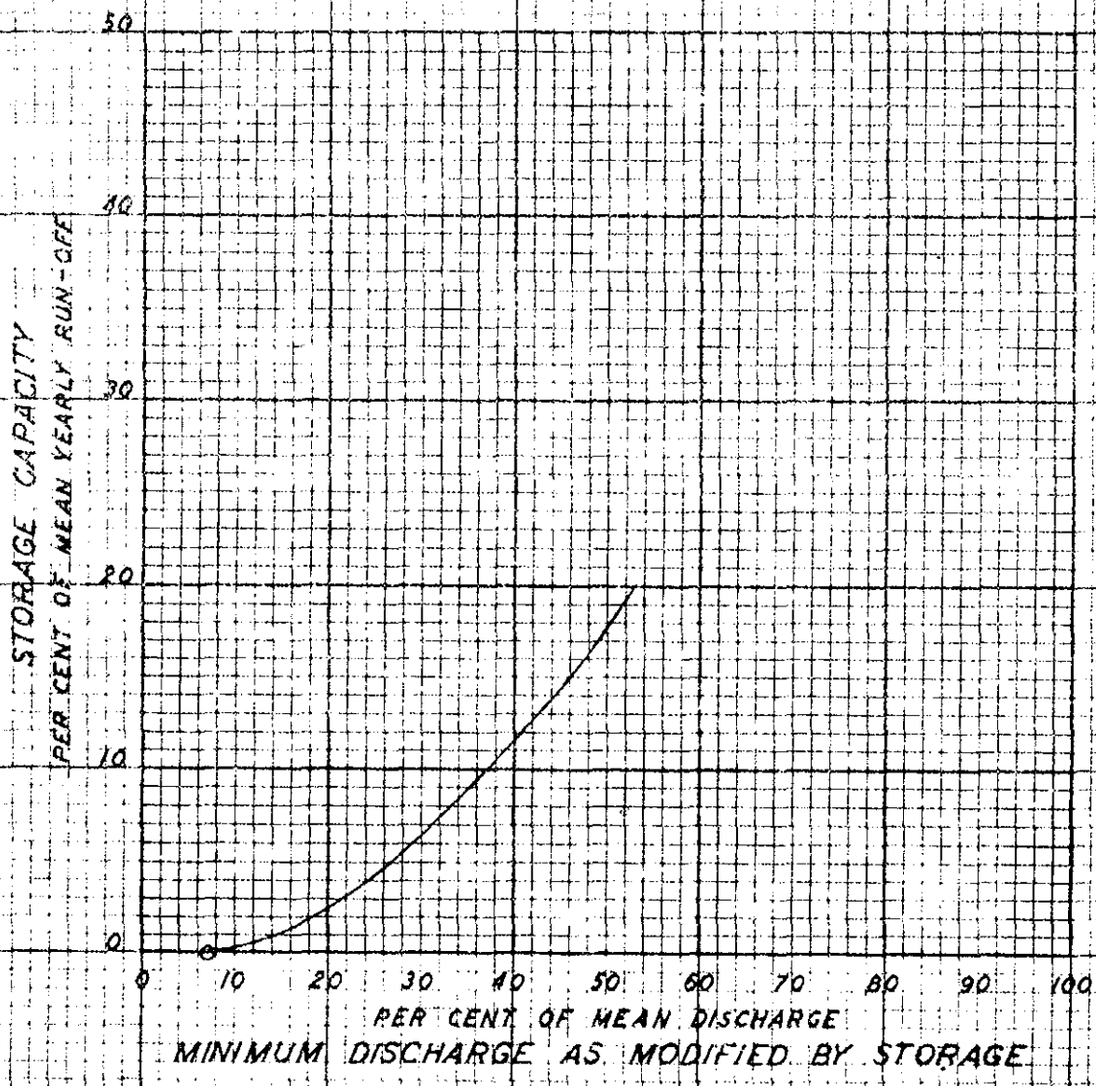
MINIMUM DISCHARGE AS MODIFIED BY STORAGE

SWIFT RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT WEST WARE
JUNE 9, 1914 TO MARCH 31, 1915, JULY 1, 1929 TO MAY 31, 1931
DRAINAGE AREA 186 SQUARE MILES
PERIOD COVERED OCTOBER 1, 1912 TO SEPTEMBER 30, 1931

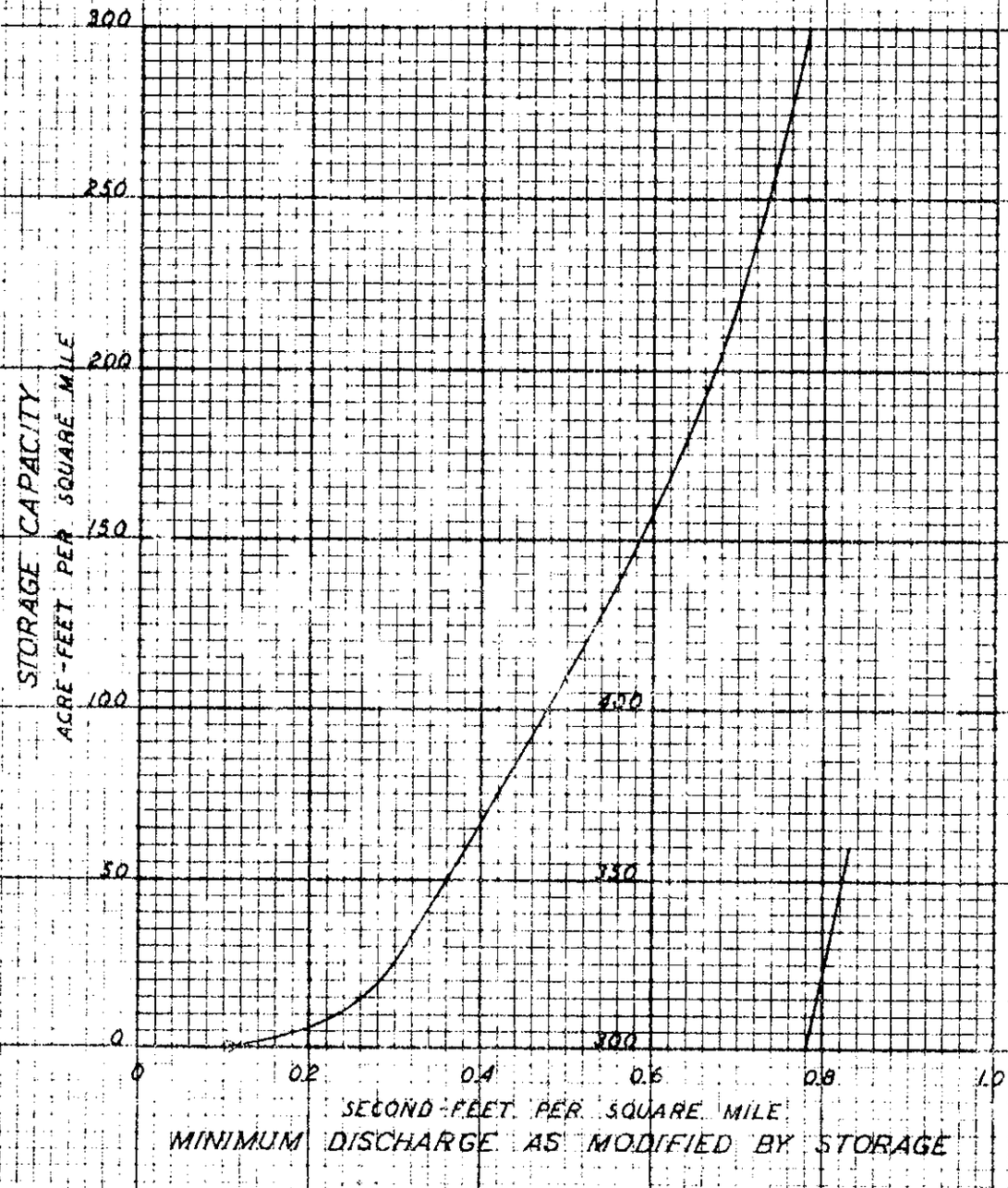


WARE RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES
AT GIBBS CROSSING
JUNE 3, 1914 TO APRIL 28, 1915
DRAINAGE AREA 199 SQUARE MILES
PERIOD COVERED AUGUST 1, 1912 TO SEPTEMBER 30, 1931

Fig 138

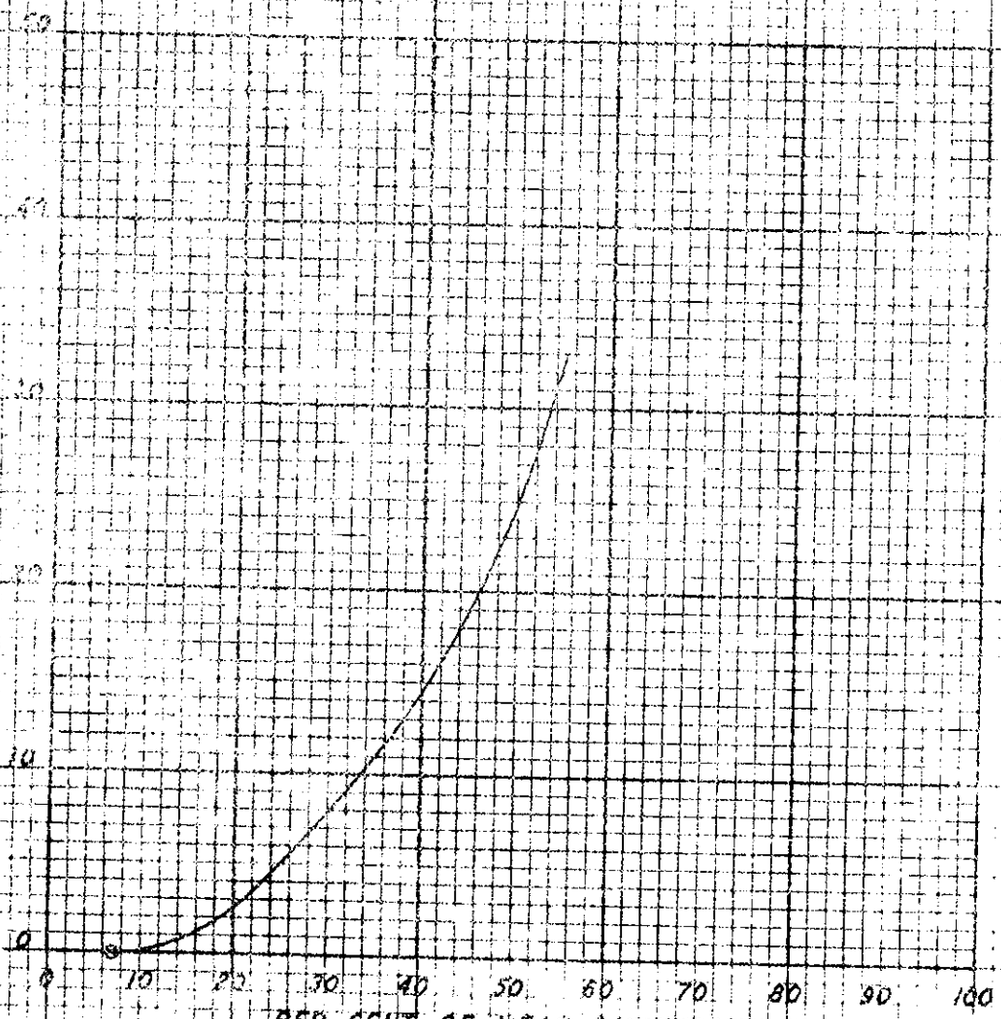


WARE RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES
AT GIBBS CROSSING
JUNE 3, 1914 TO APRIL 28, 1915
DRAINAGE AREA 199 SQUARE MILES
PERIOD COVERED AUGUST 1, 1912 TO SEPTEMBER 30, 1931



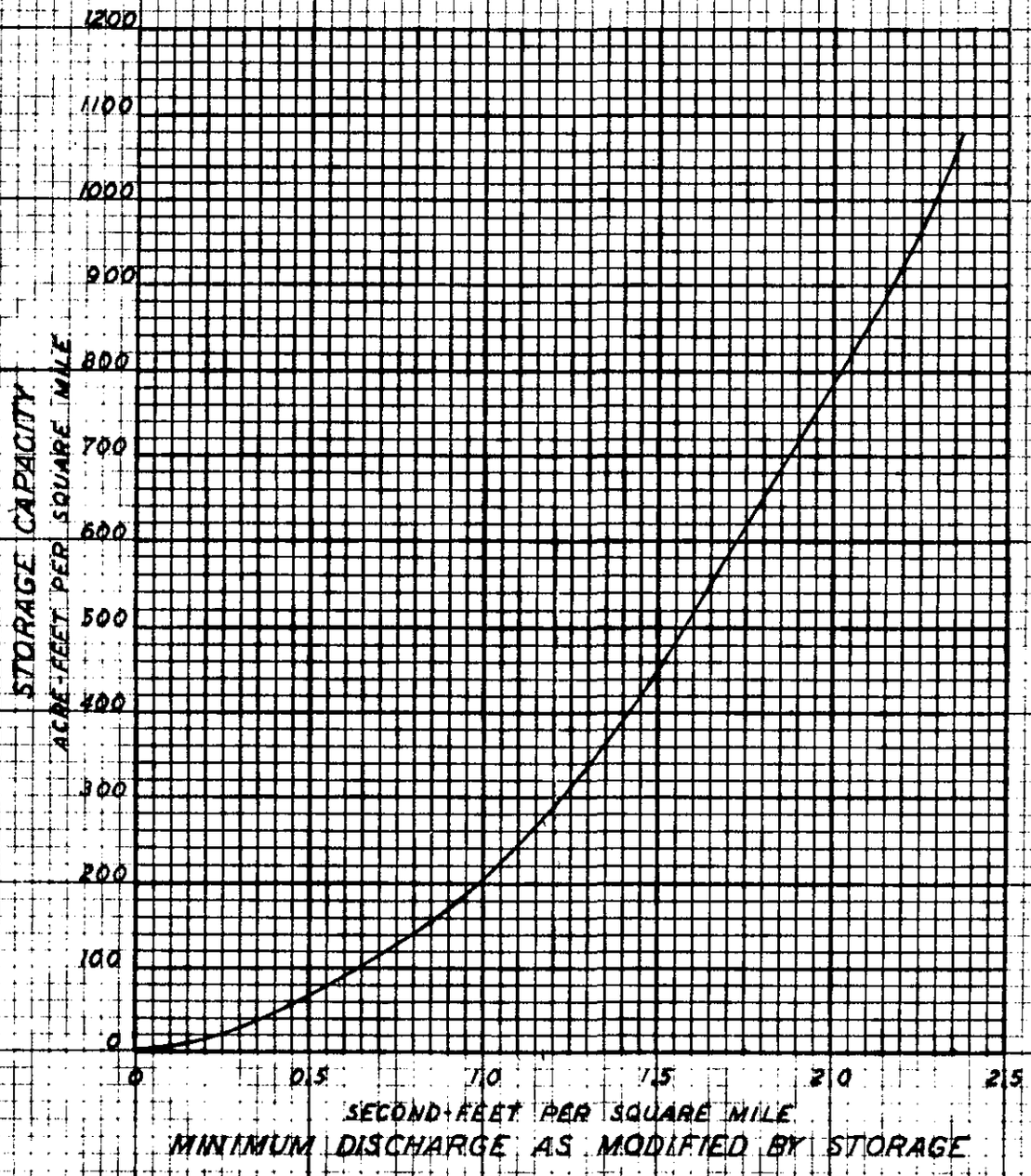
QUABOAG RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT WEST BRIMFIELD
JUNE 6, 1929 TO JUNE 21, 1931
DRAINAGE AREA 151 SQUARE MILES
PERIOD COVERED AUGUST 1, 1912 TO SEPTEMBER 30, 1931

Fig. 140



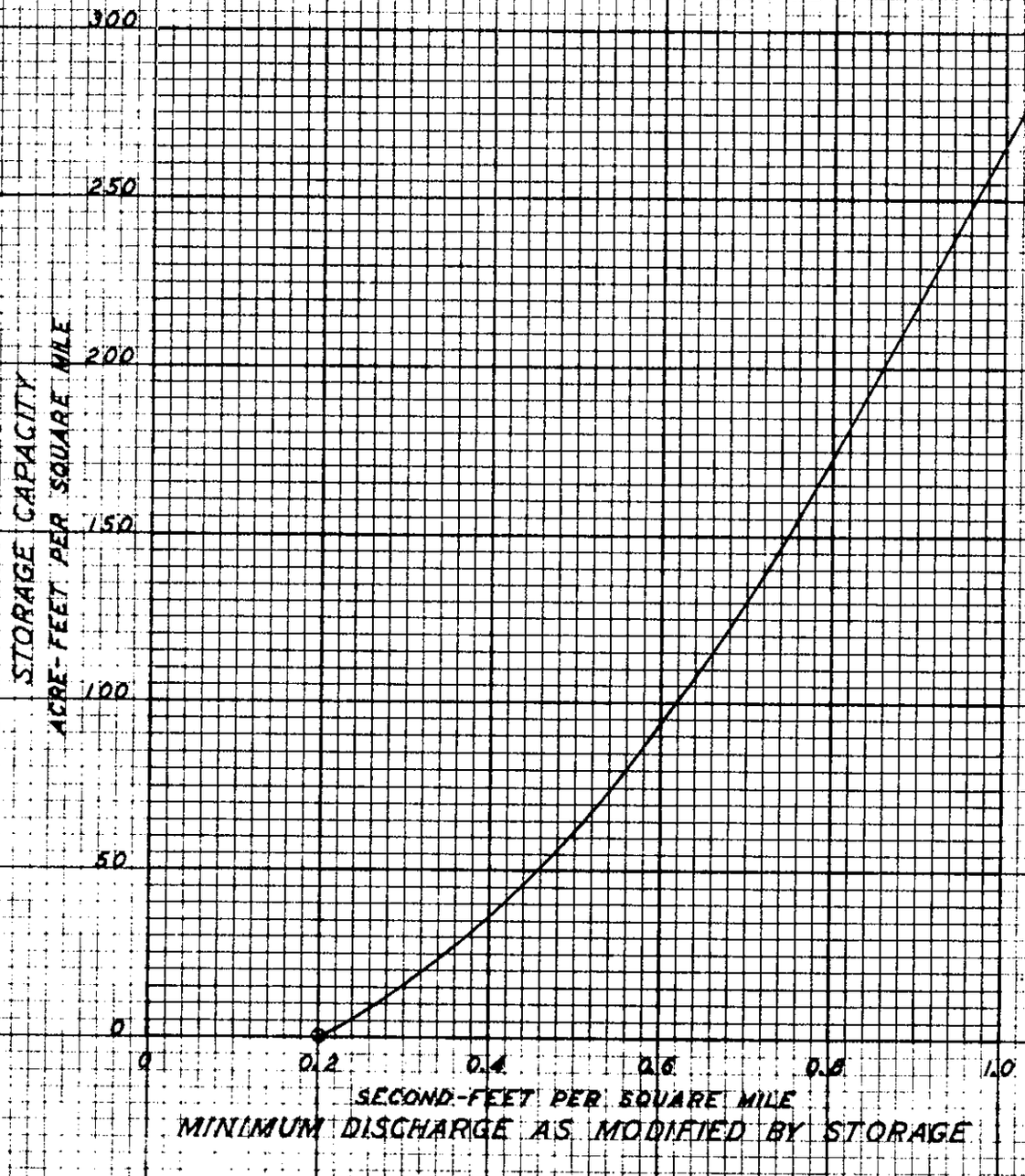
QUABOAG RIVER
CHICOPEE RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT WEST BRIMFIELD
JUNE 6, 1929 TO JUNE 21, 1931
DRAINAGE AREA 151 SQUARE MILES
PERIOD COVERED AUGUST 1, 1912 TO SEPTEMBER 30, 1931

FIG. 141



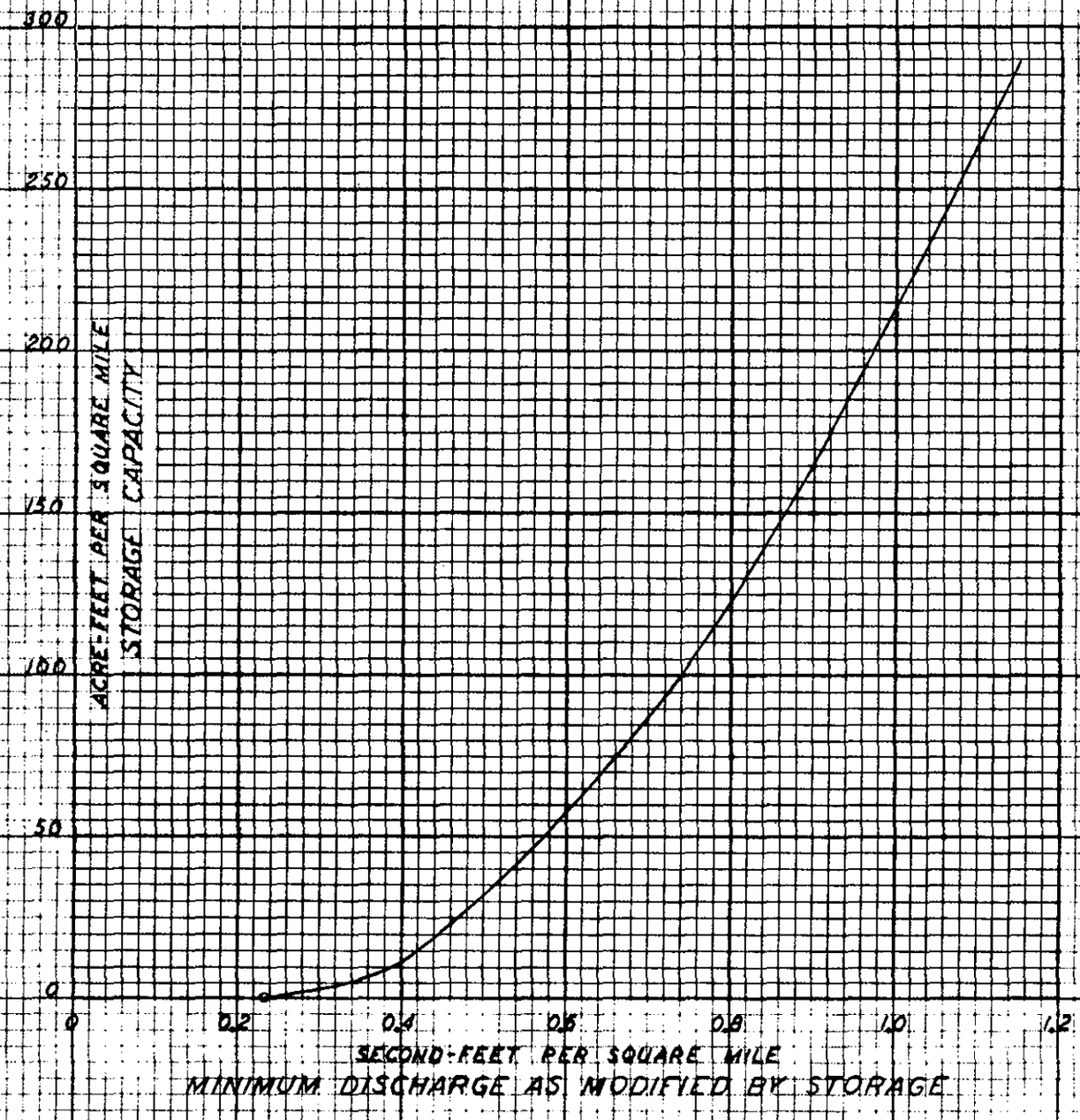
CONNECTICUT RIVER
AT FIRST CONNECTICUT LAKE
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES NEAR PITTSBURG, N.H.
CORRECTED FOR EXISTING STORAGE
MAY 1, 1921 TO MAY 31, 1926
DRAINAGE AREA 82.5 SQUARE MILES
PERIOD COVERED APRIL 1, 1917 TO SEPT. 30, 1931

FIGURE 12 14 2



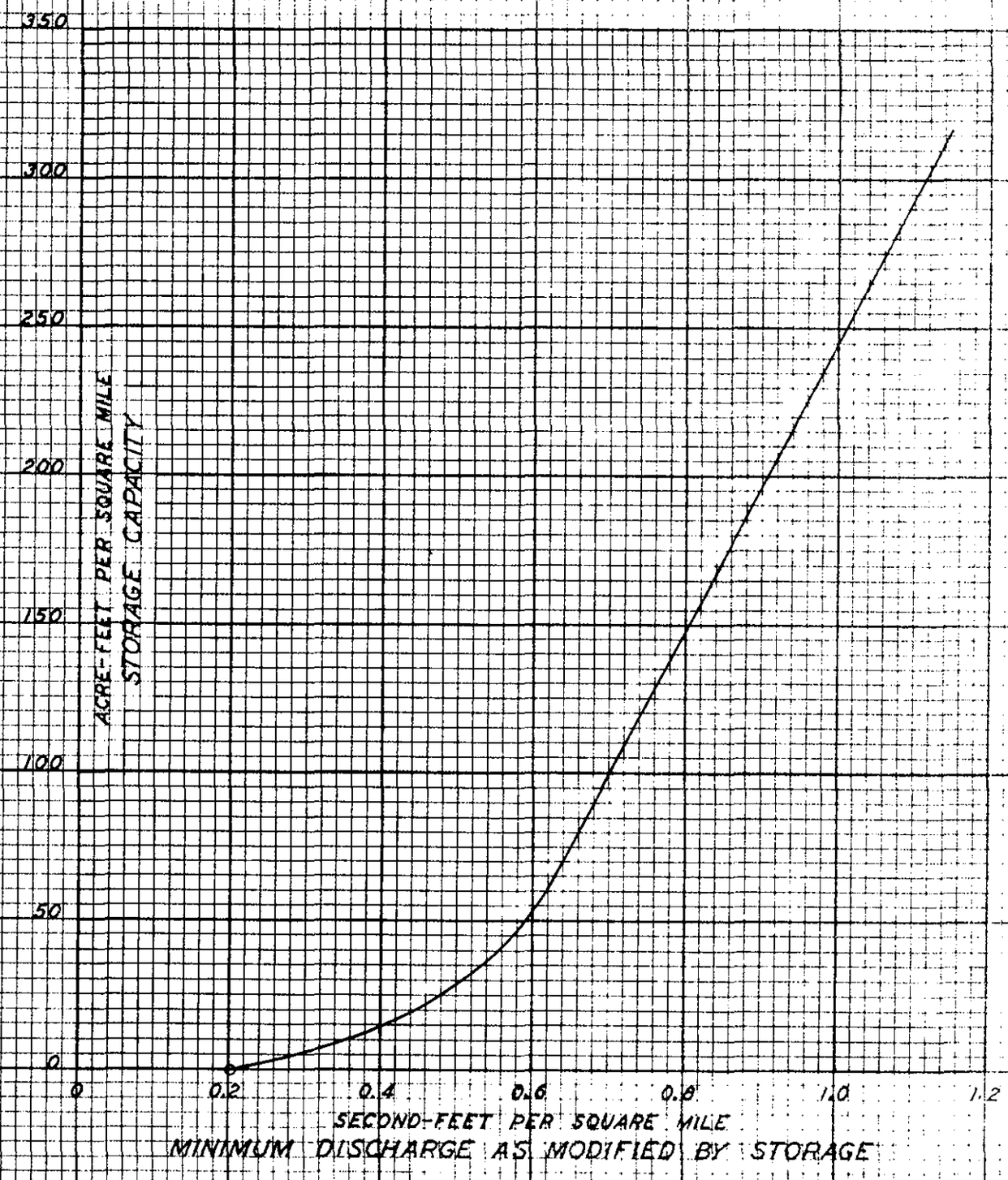
CONNECTICUT RIVER
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JULY 1, 1903 TO MAY 31, 1904 AND JULY 1, 1908 TO APRIL 30, 1909
DRAINAGE AREA 3100 SQUARE MILES AT ORFORD, N.H.
DRAINAGE AREA 2830 SQUARE MILES AT SOUTH NEWBURY, VT.
PERIOD COVERED SEPT. 1, 1900 TO JUNE 17, 1931

FIGURE 43 143



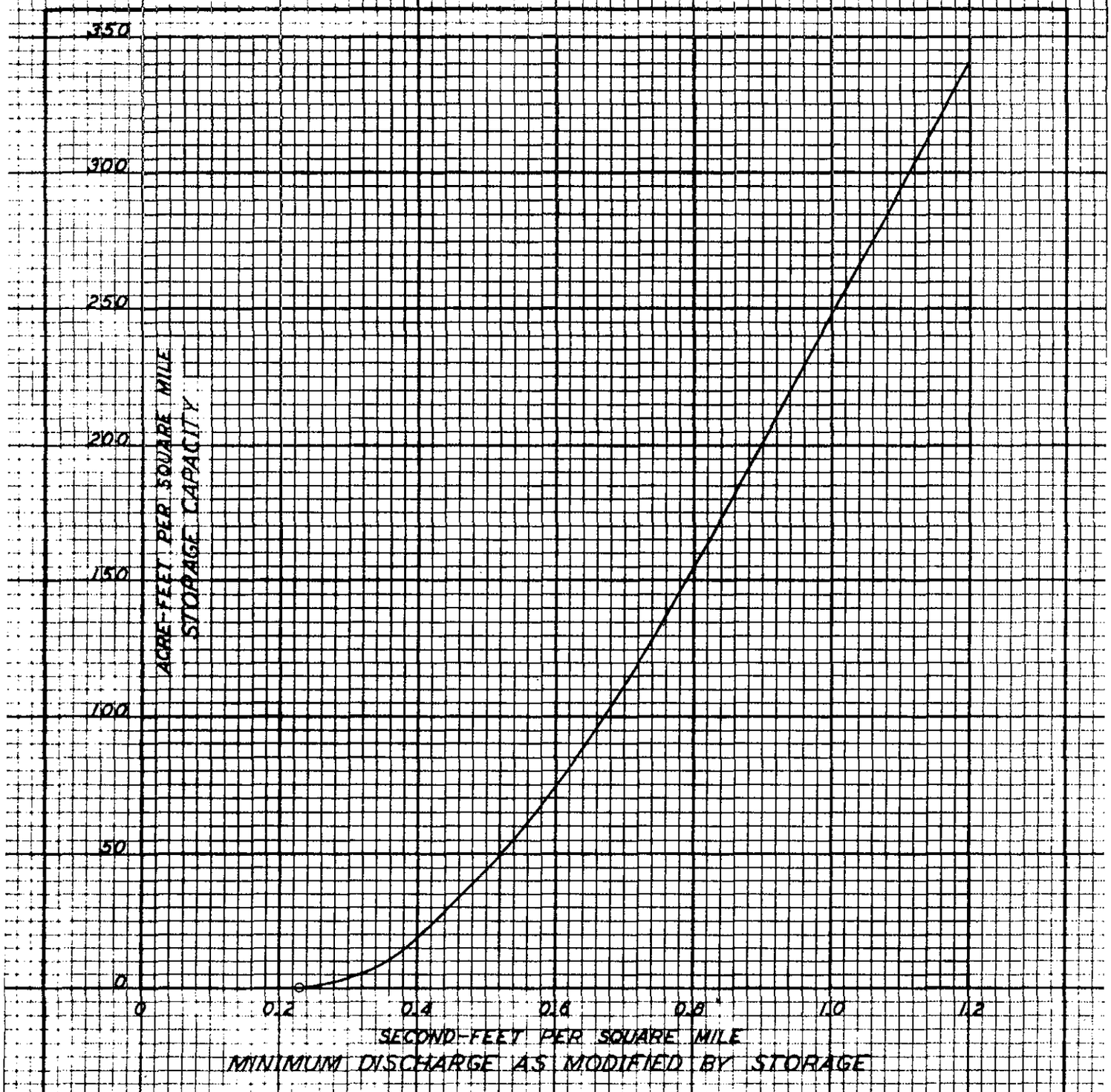
CONNECTICUT RIVER
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES
AT WHITE RIVER JUNCTION, VT.
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1921 TO APRIL 30, 1922; JULY 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 4120 SQUARE MILES
PERIOD COVERED OCT. 1, 1911 TO SEPT. 30, 1931

FIGURE 44



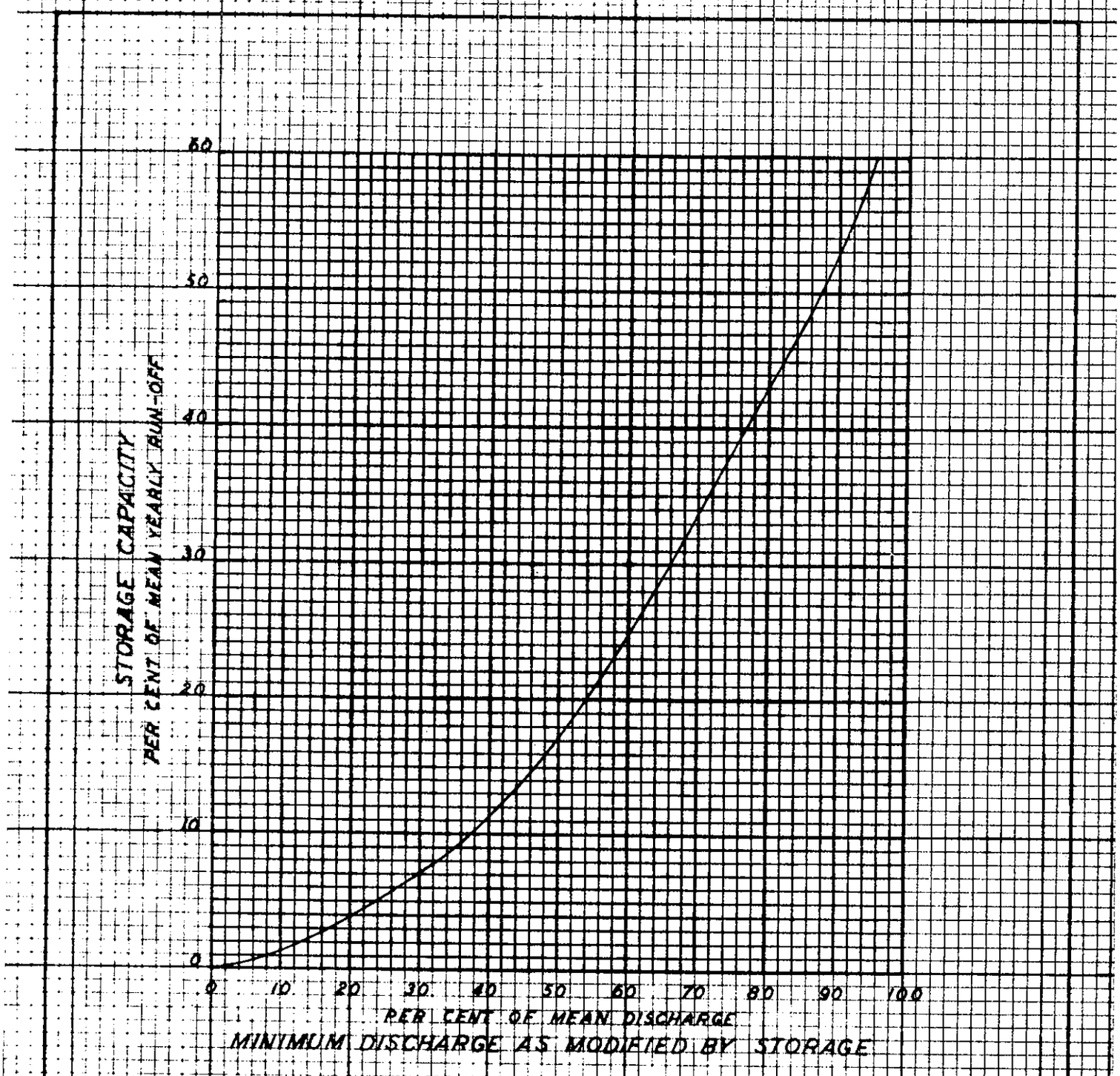
CONNECTICUT RIVER
AT TURNERS FALLS, MASS.
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1921 TO APRIL 30, 1922; JUNE 1, 1923 TO MAY 31, 1924
AND JULY 1, 1930 TO JUNE 30, 1931
DRAINAGE AREA 7250 SQUARE MILES
PERIOD COVERED JANUARY 1, 1915 TO JUNE 30, 1931

FIGURE 25.



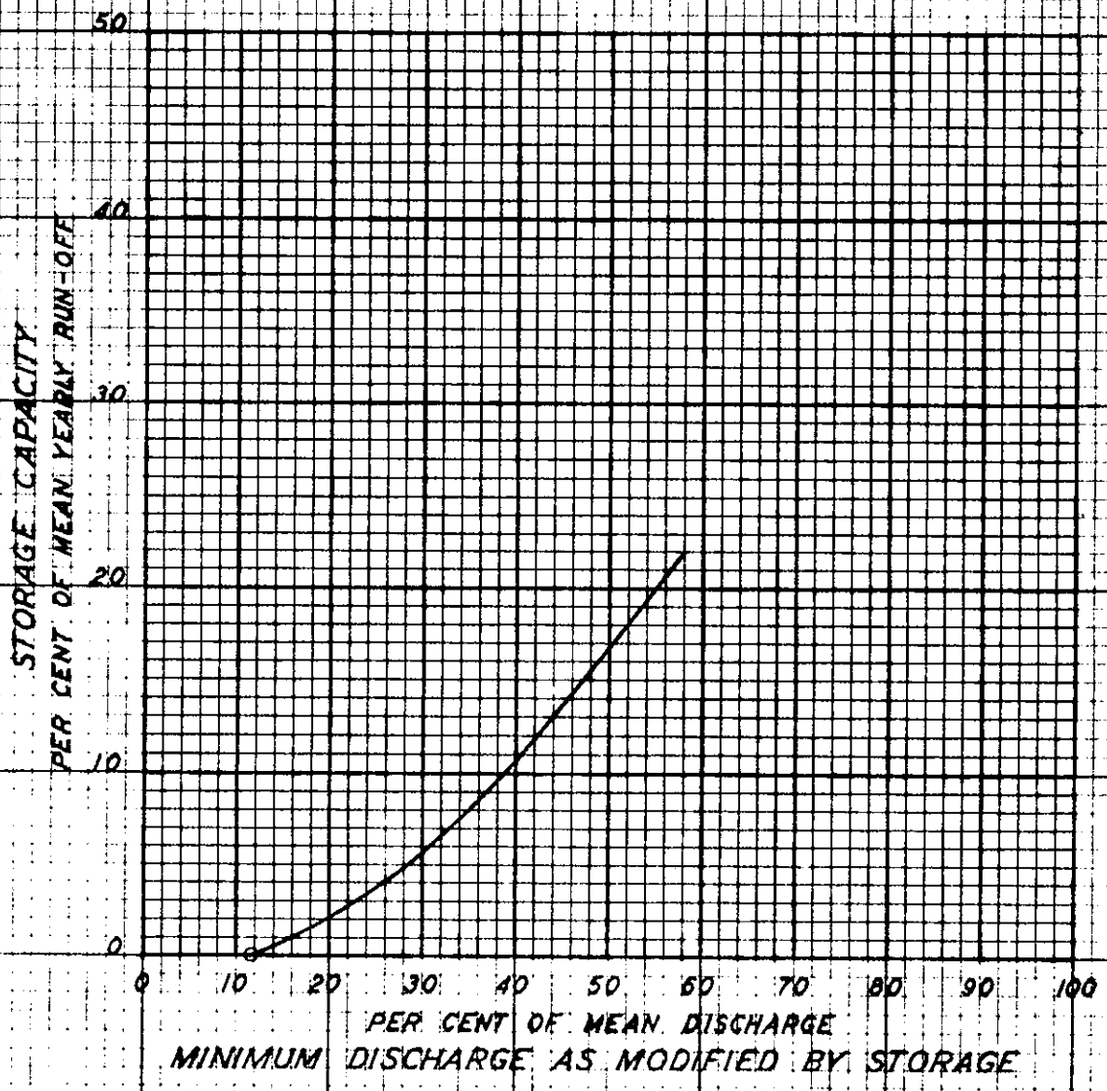
CONNECTICUT RIVER
AT SUNDERLAND, MASSACHUSETTS
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1908 TO APRIL 30, 1909 AND JUNE 1, 1914 TO FEB. 29, 1916
DRAINAGE AREA 8,000 SQUARE MILES
PERIOD COVERED APRIL 1, 1904 TO SEPTEMBER 30, 1931

FIGURE 46



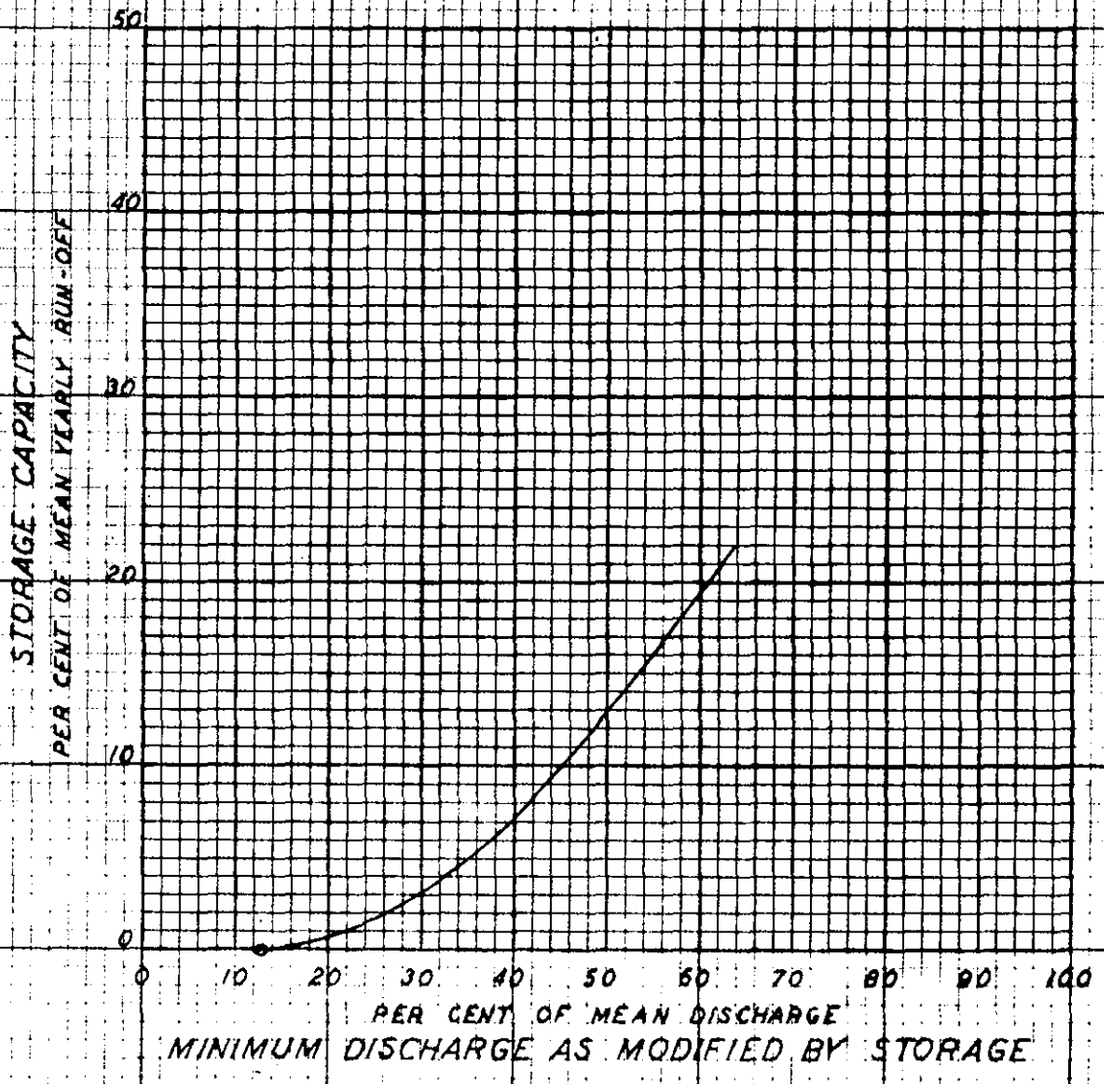
CONNECTICUT RIVER
AT FIRST CONNECTICUT LAKE
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES NEAR PITTSBURG, N.H.
CORRECTED FOR EXISTING STORAGE
MAY 1, 1921 TO MAY 31, 1926
DRAINAGE AREA 82.5 SQUARE MILES
PERIOD COVERED APRIL 1, 1917 TO SEPT 30, 1931

FIGURE 27



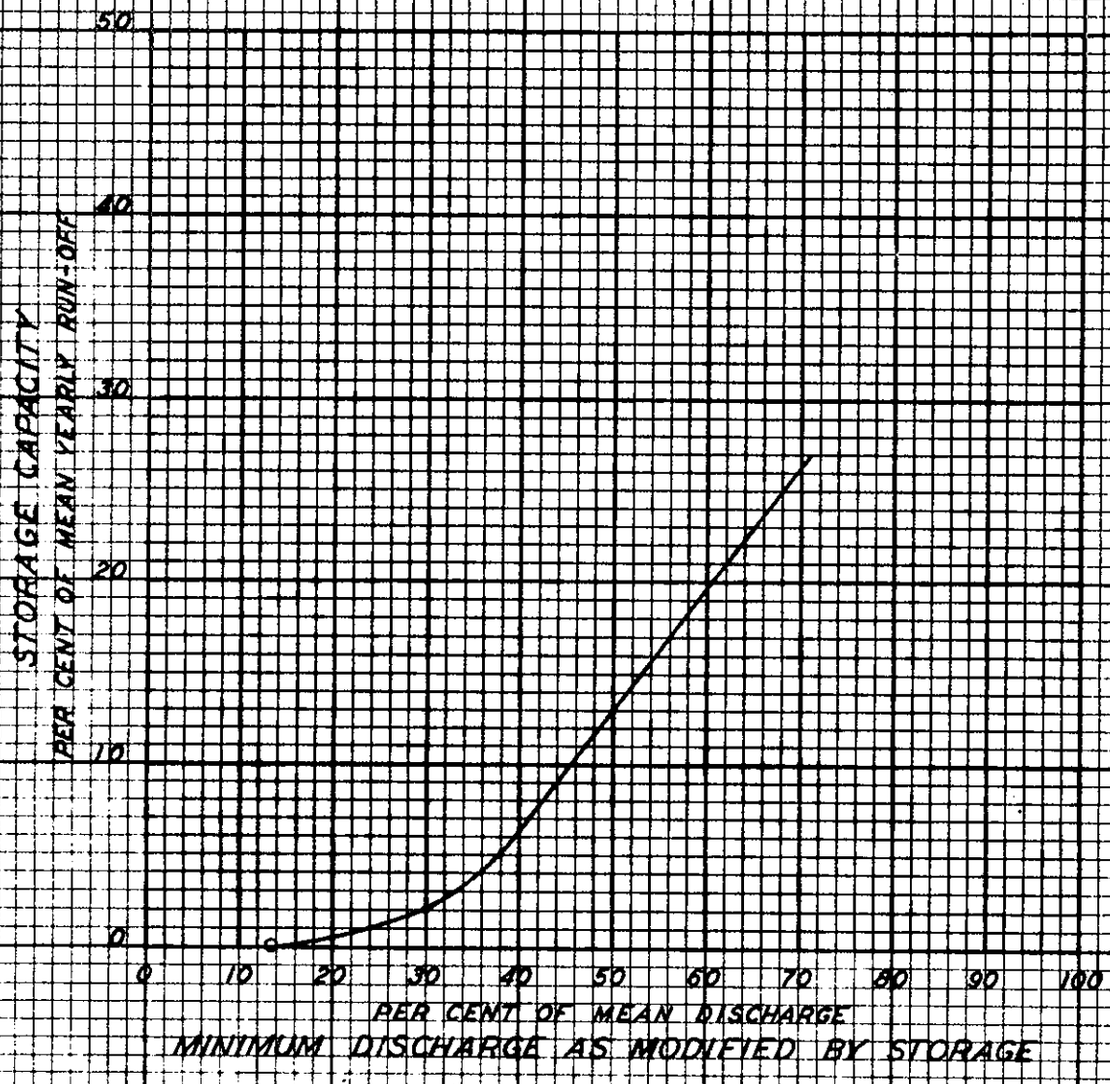
CONNECTICUT RIVER
AT ORFORD, N.H. AND SOUTH NEWBURY, VT.
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JULY 1, 1903 TO MAY 31, 1904 AND JULY 1, 1908 TO APRIL 30, 1909
DRAINAGE AREA 3100 SQUARE MILES AT ORFORD, N.H.
DRAINAGE AREA 2830 SQUARE MILES AT SOUTH NEWBURY, VT.
PERIOD COVERED SEPT. 1, 1900 TO JUNE 17, 1931

FIGURE 40 145



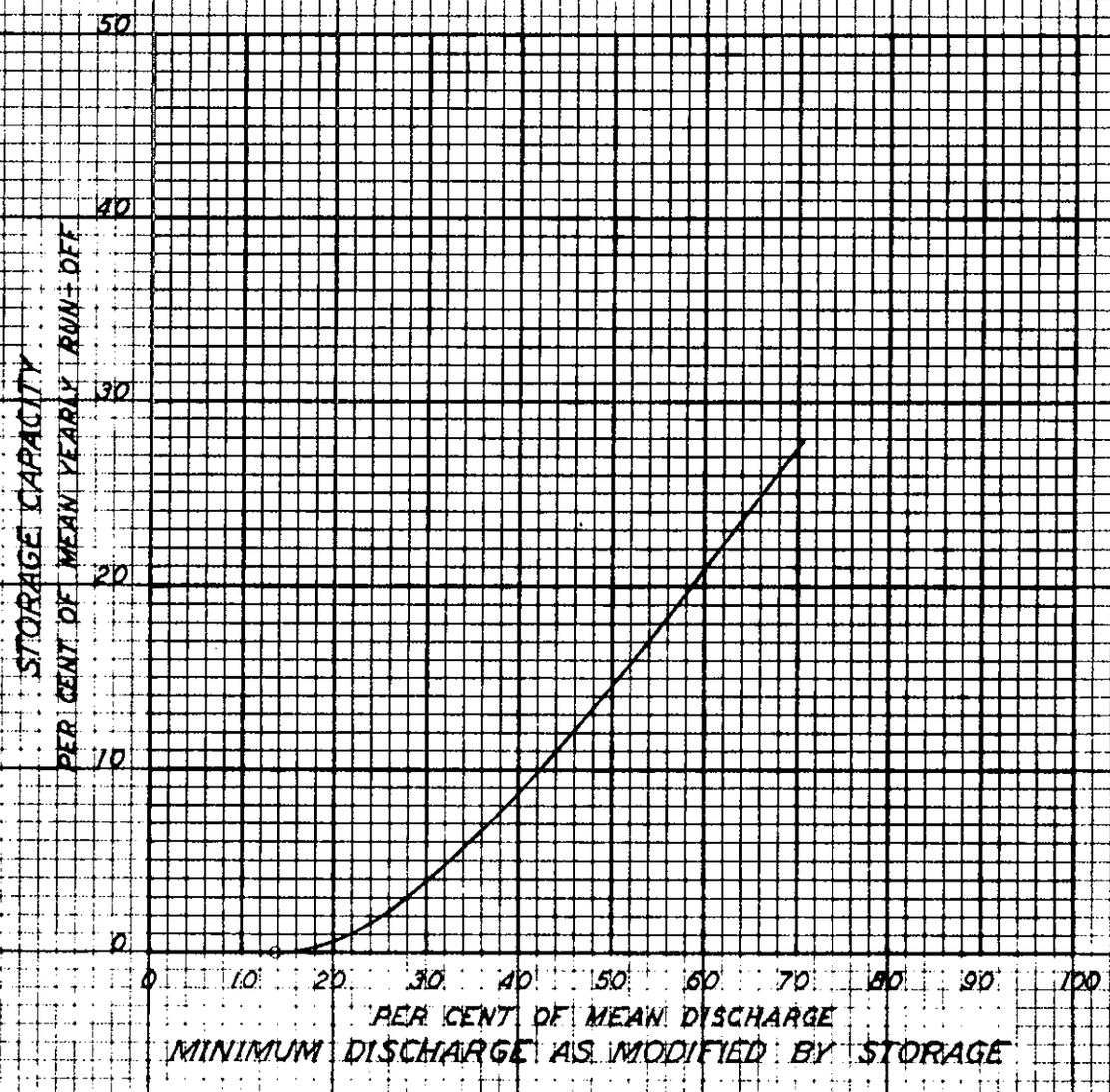
CONNECTICUT RIVER
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES
AT WHITE RIVER JUNCTION, VT.
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1921 TO APRIL 30, 1922; JULY 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 4120 SQUARE MILES
PERIOD COVERED OCT. 1, 1911 TO SEPT. 30, 1931

FIGURE 42



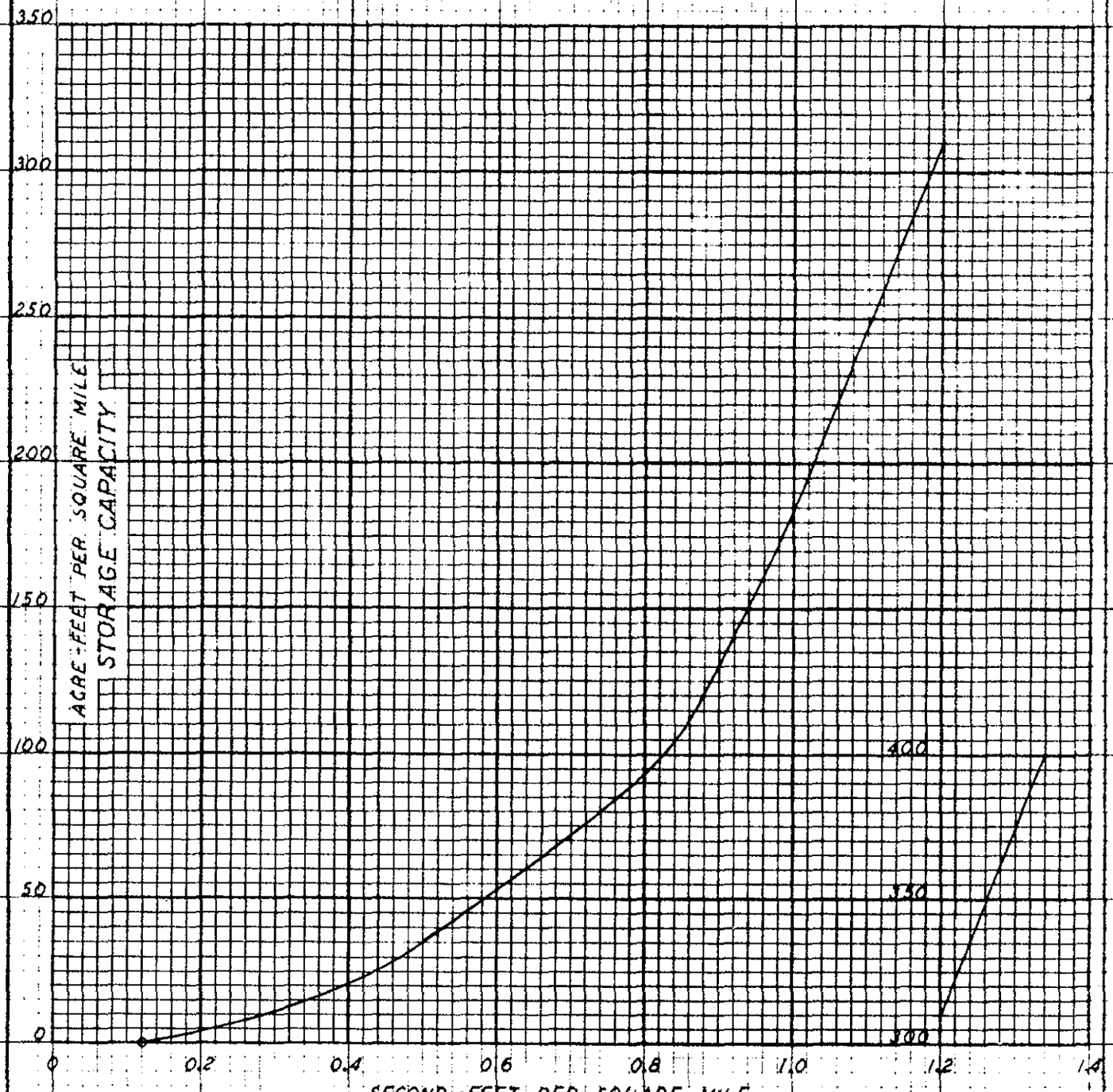
CONNECTICUT RIVER
AT TURNERS FALLS, MASS
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1921 TO APRIL 30, 1922, JUNE 1, 1923 TO MAY 31, 1924
AND JULY 1, 1930 TO JUNE 30, 1931
DRAINAGE AREA 7250 SQUARE MILES
PERIOD COVERED JANUARY 1, 1915 TO JUNE 30, 1931

FIGURE 50



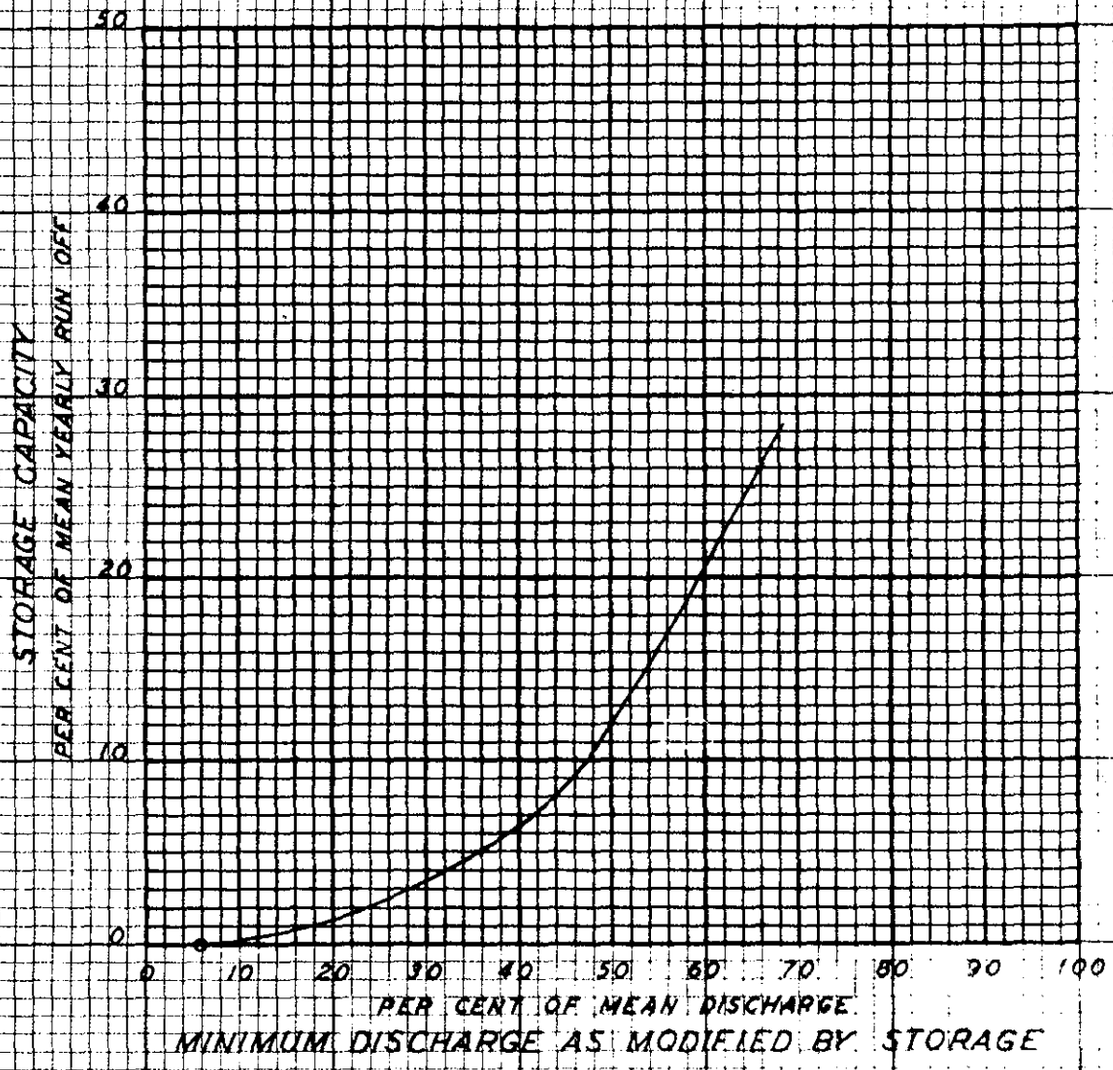
CONNECTICUT RIVER
AT SUNDERLAND, MASSACHUSETTS
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1908 TO APRIL 30, 1909 AND JUNE 1, 1914 TO FEB. 29, 1916
DRAINAGE AREA 8,000 SQUARE MILES
PERIOD COVERED APRIL 1, 1904 TO SEPTEMBER 30, 1931

FIGURE 51



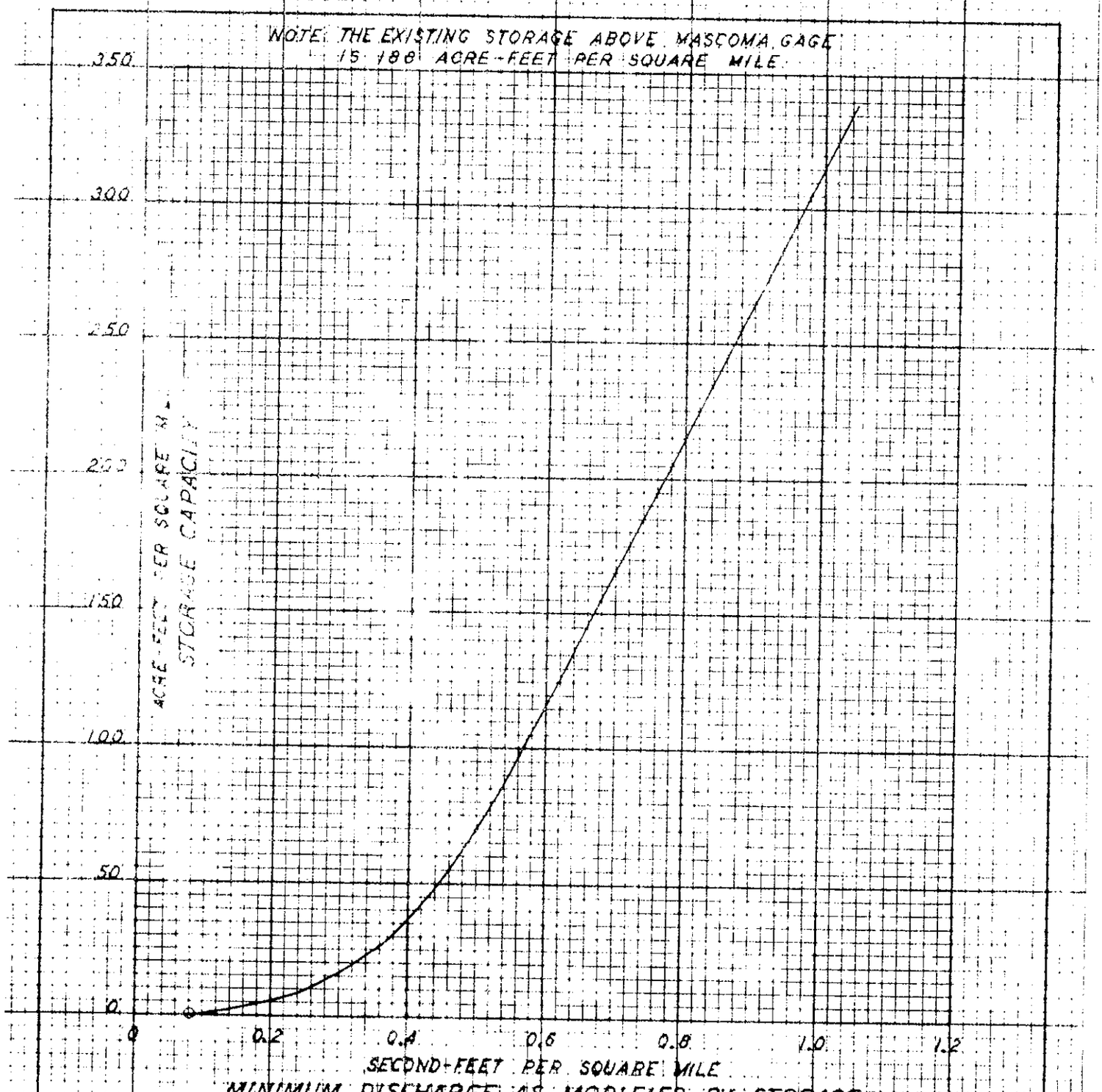
FARMINGTON RIVER
MASSACHUSETTS - CONNECTICUT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR NEW BOSTON
JUNE 18, 1929 TO APRIL 11, 1931
DRAINAGE AREA 92.7 SQUARE MILES
PERIOD COVERED MAY 1, 1913 TO OCTOBER 1, 1931

Fig 152



FARMINGTON RIVER
MASSACHUSETTS - CONNECTICUT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR NEW BOSTON
JUNE 18, 1929 TO APRIL 11, 1931
DRAINAGE AREA 92.7 SQUARE MILES
PERIOD COVERED MAY 1, 1913 TO OCTOBER 1, 1931

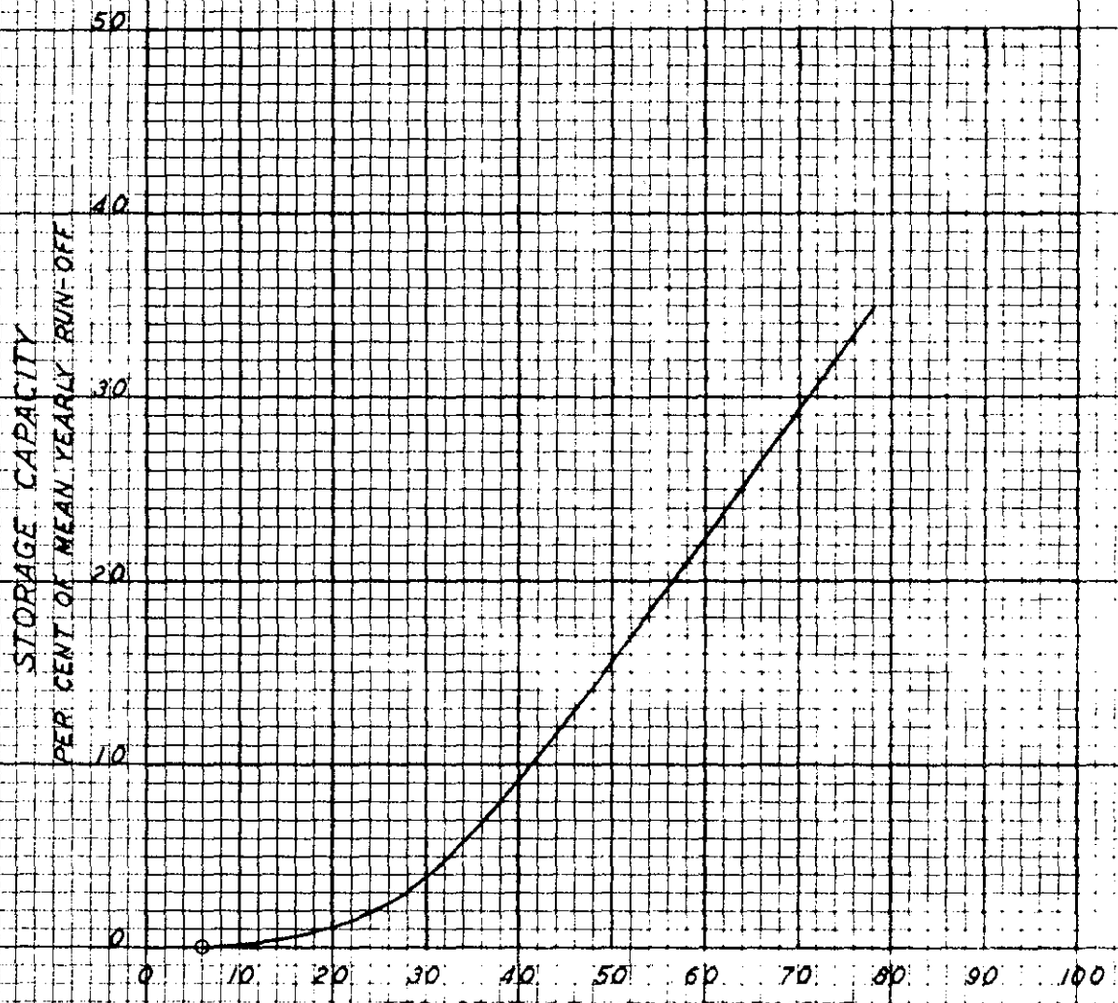
F-14 15



MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHY DISCHARGES AT MASCOMA
CORRECTED FOR EXISTING STORAGE
JULY 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 153 SQUARE MILES
PERIOD COVERED OCT. 1, 1928 TO JULY 31, 1931

FIGURE 8

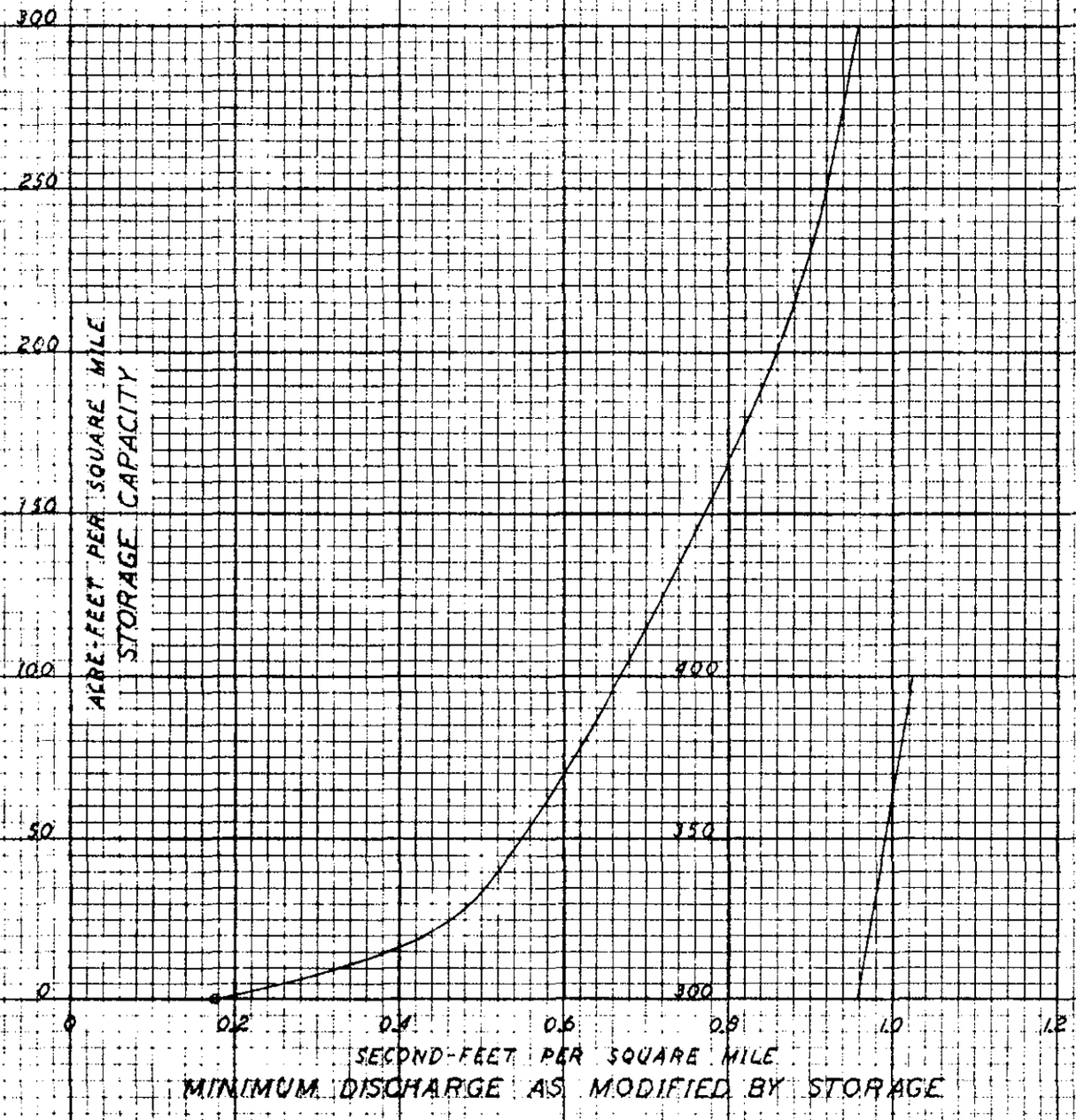
NOTE: THE EXISTING STORAGE ABOVE MASCOMA GAGE IS 28,800 ACRE-FEET OR 19 PER CENT OF THE MEAN YEARLY RUN-OFF FOR THE PERIOD OF RECORD.



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

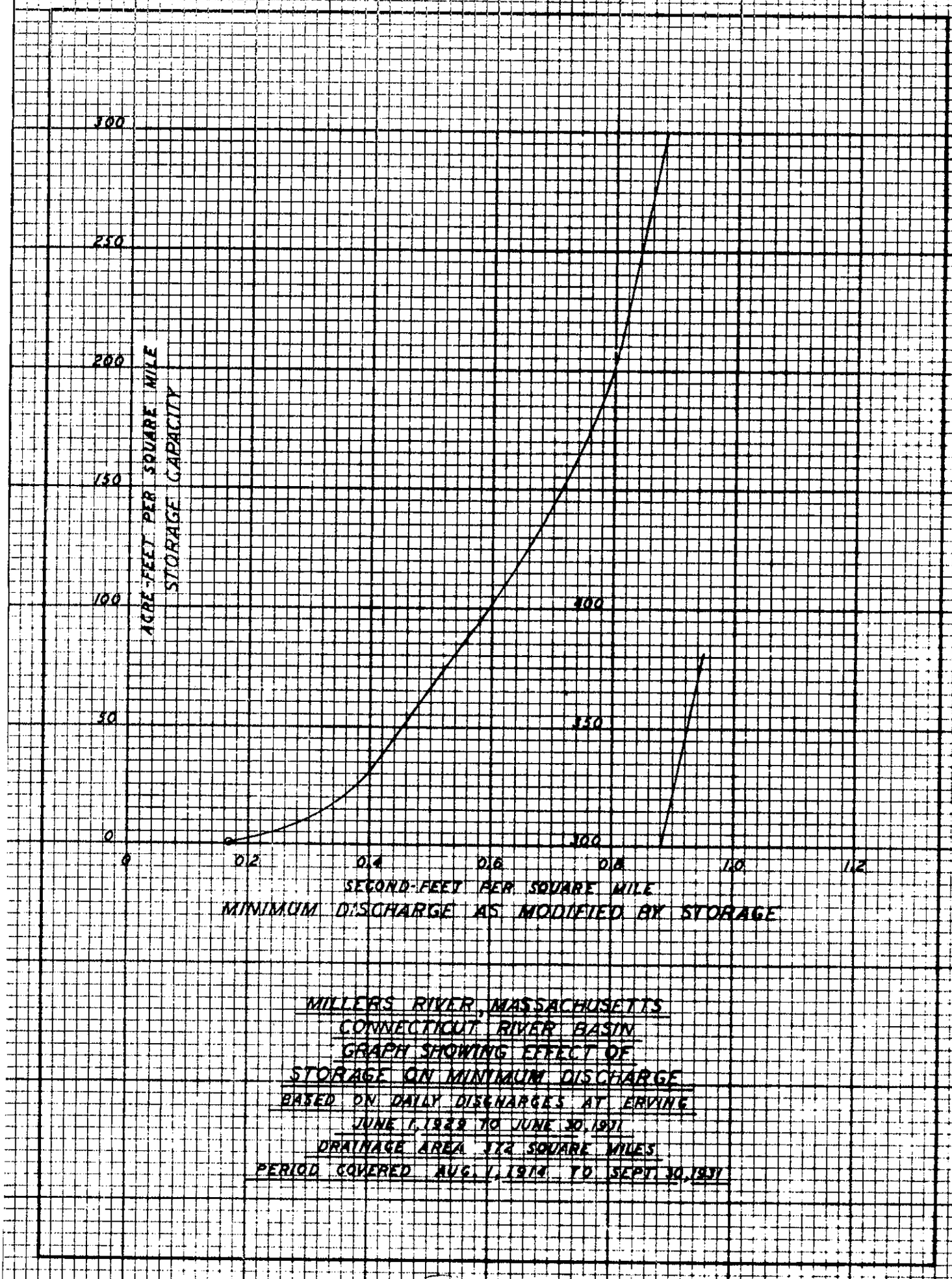
MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES AT MASCOMA
CORRECTED FOR EXISTING STORAGE
JULY 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 153 SQUARE MILES
PERIOD COVERED OCT. 1, 1928 TO JULY 31, 1931

FIGURE 8



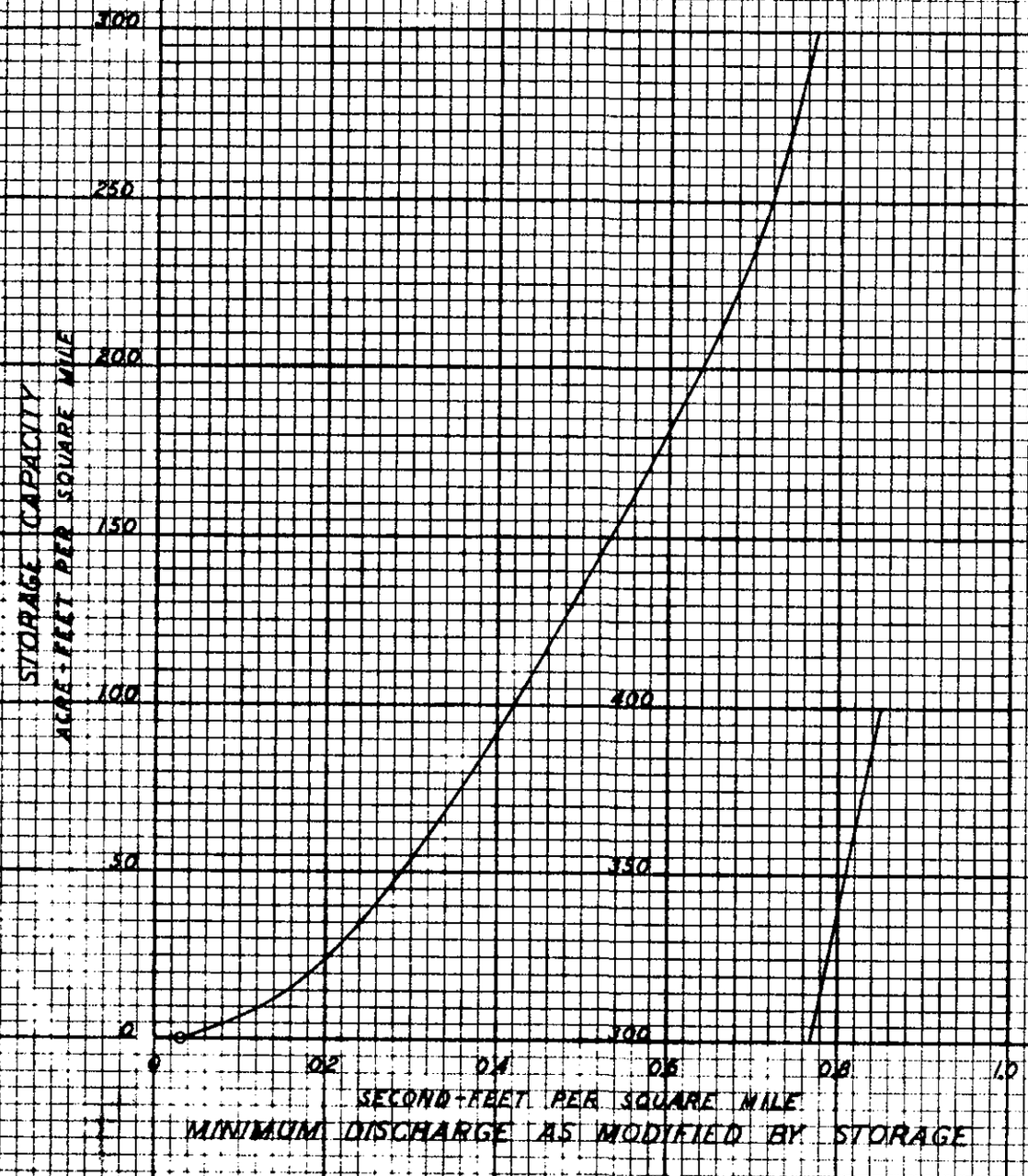
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 6, 1924 TO APRIL 30, 1925; MAY 28, 1926 TO FEB. 28, 1927
JULY 1, 1929 TO JUNE 22, 1931
DRAINAGE AREA 80 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPT. 30, 1931

Fig 156



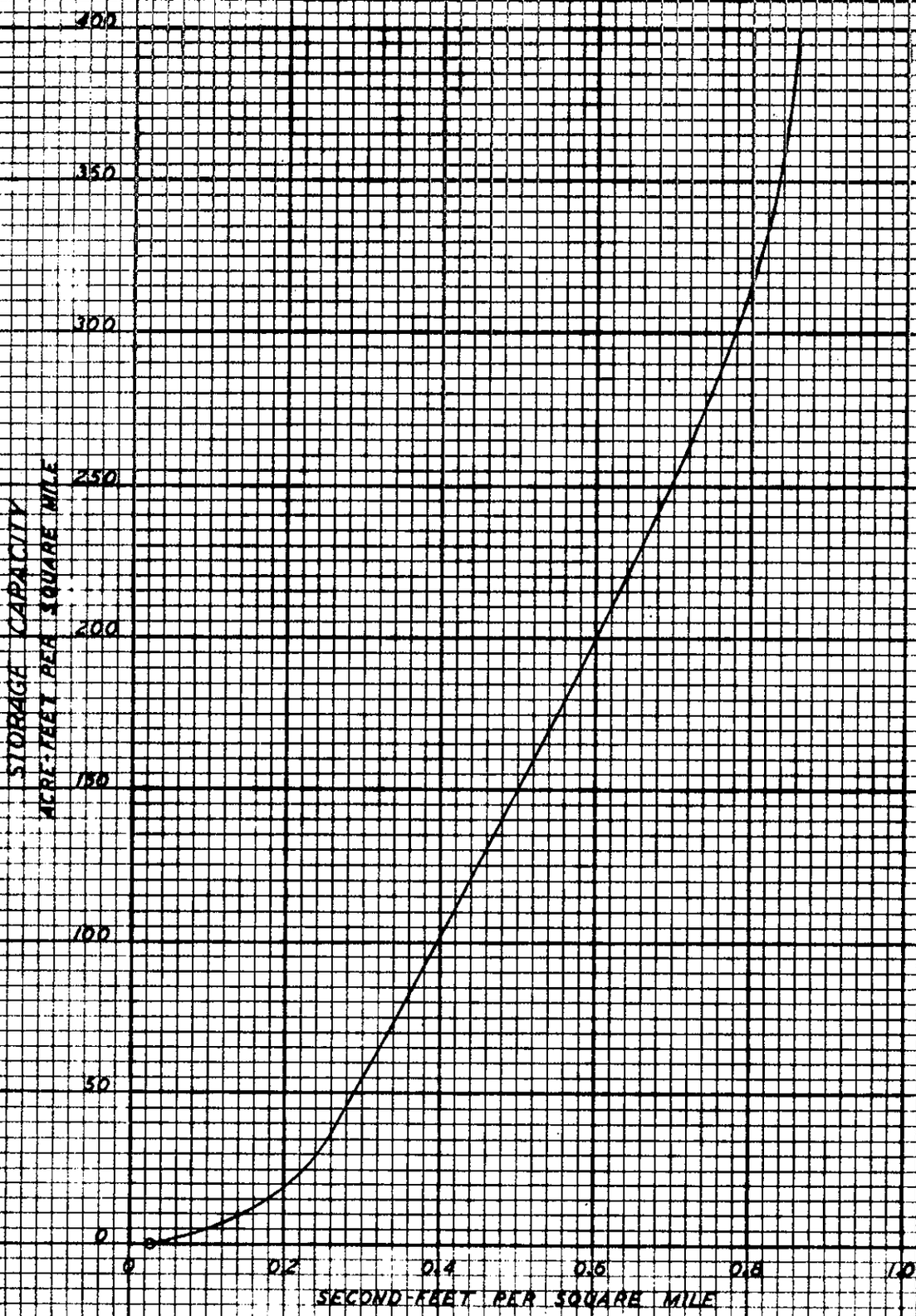
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT ERVING
JUNE 1, 1929 TO JUNE 30, 1931
DRAINAGE AREA 172 SQUARE MILES
PERIOD COVERED AUG. 1, 1914 TO SEPT. 30, 1931

Fig. 154



SIP POND BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 12, 1924 TO MARCH 28, 1925; JUNE 18, 1929 TO JUNE 14, 1931
DRAINAGE AREA 18.8 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPTEMBER 30, 1931

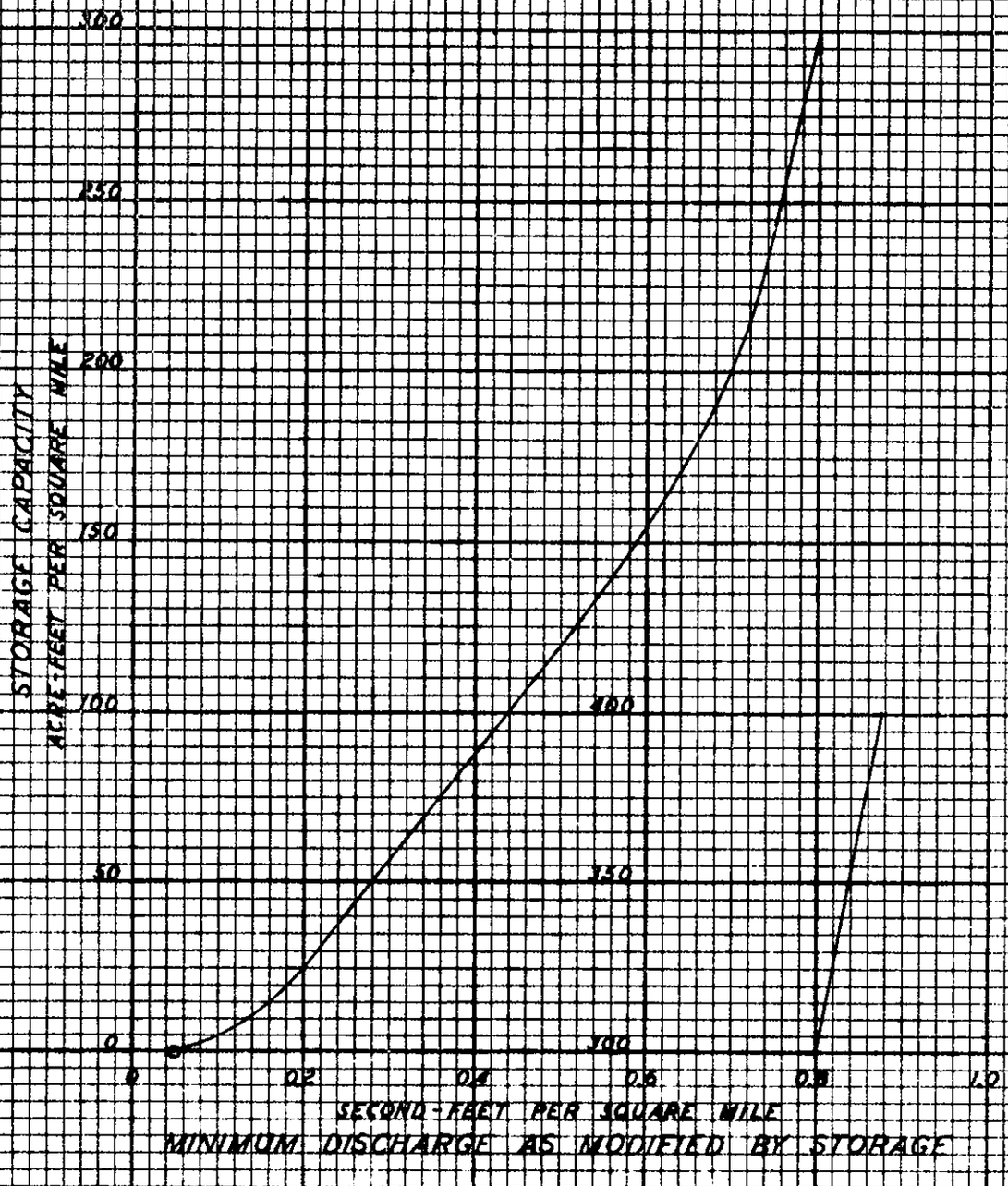
T-4 158



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

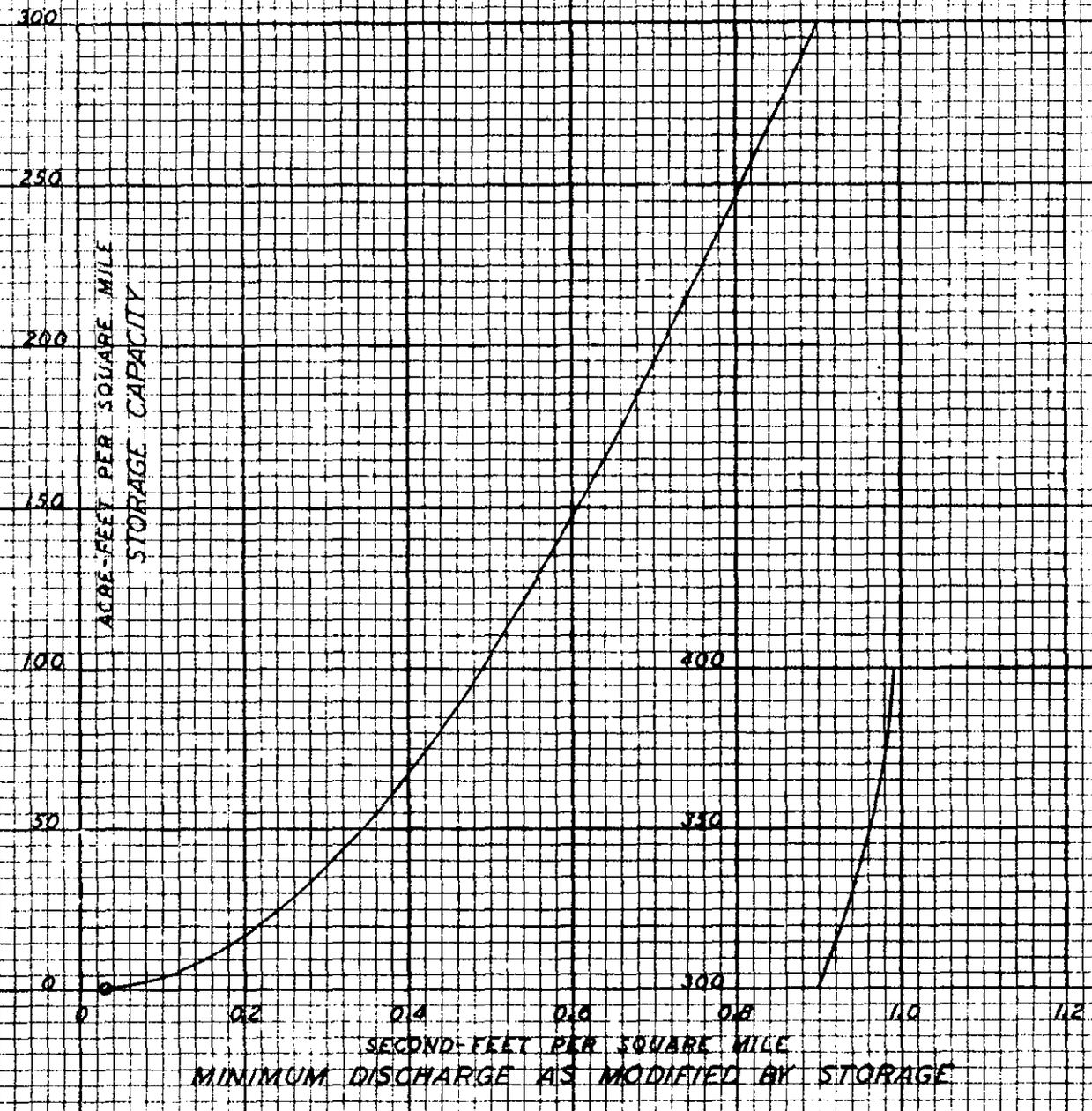
PRIEST BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 6, 1924 TO MARCH 13, 1925; JUNE 15, 1929 TO APRIL 30, 1931
DRAINAGE AREA 18.8 SQUARE MILES
PERIOD COVERED MAY 1, 1916 TO SEPT. 30, 1917; JULY 1, 1918 TO SEPT. 30, 1931

Fig. 159

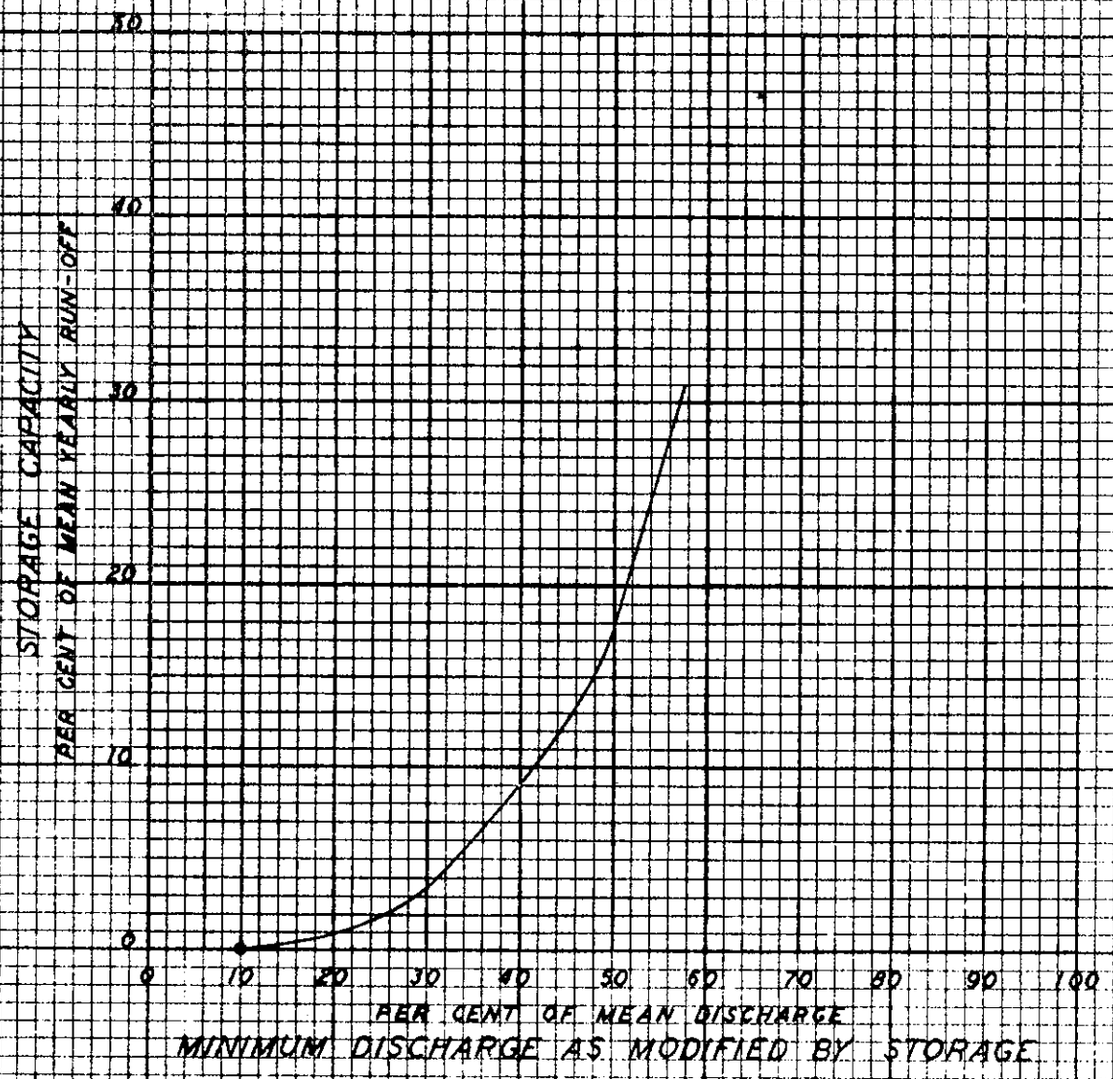


EAST BRANCH OF TULLY RIVER
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR ATHOL
JULY 1, 1929 TO JUNE 10, 1931
DRAINAGE AREA 50.2 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPTEMBER 30, 1931

Fig. 16



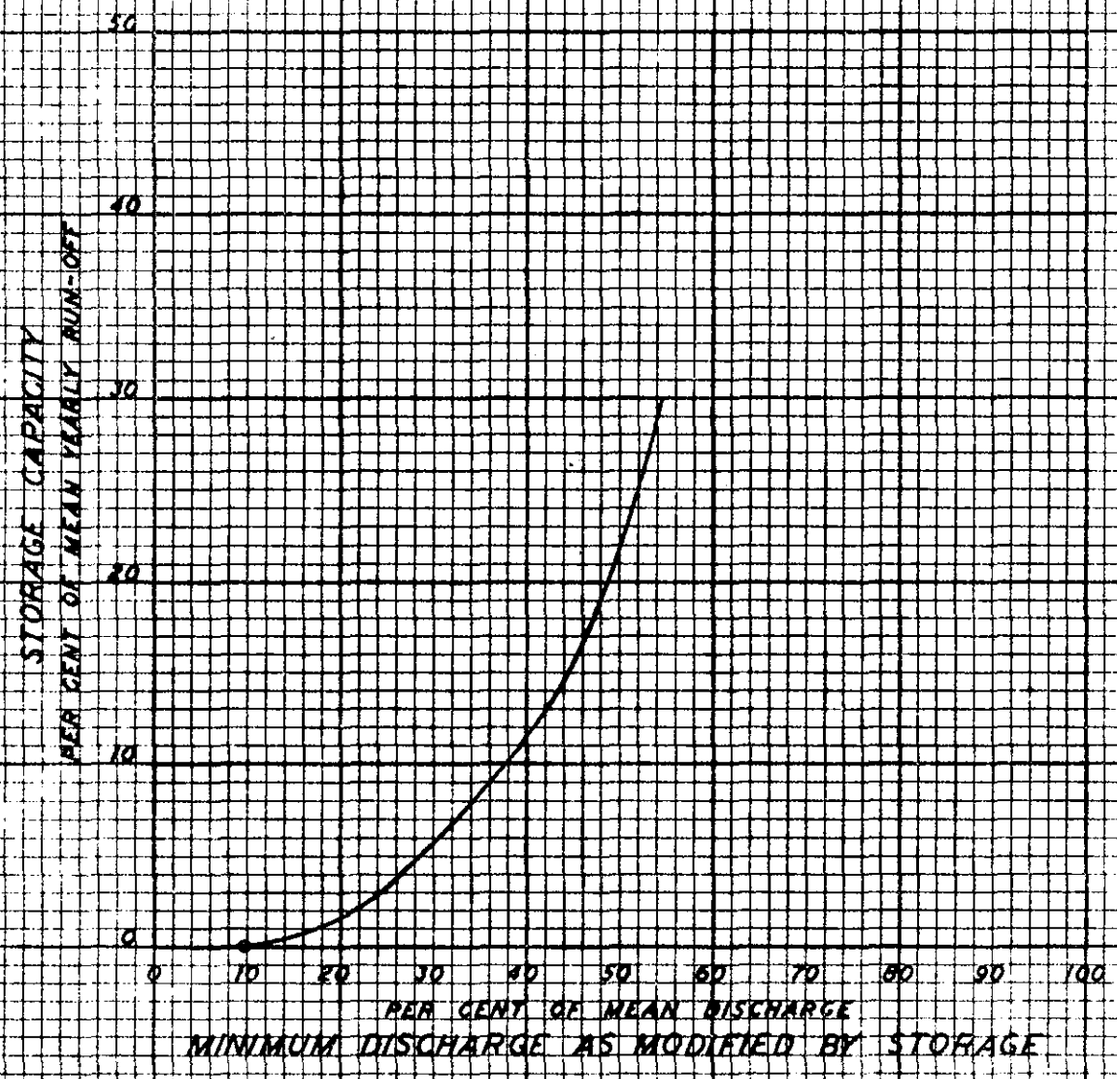
MOSS BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT WENDELL DEPOT
JULY 1, 1929 TO JUNE 22, 1931
DRAINAGE AREA 12.2 SQUARE MILES
PERIOD COVERED JUNE 1, 1915 TO SEPT. 30, 1931



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 6, 1924 TO APRIL 30, 1925; MAY 28, 1926 TO FEB. 28, 1927
JULY 1, 1929 TO JUNE 22, 1931
DRAINAGE AREA 80 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPT. 30, 1931

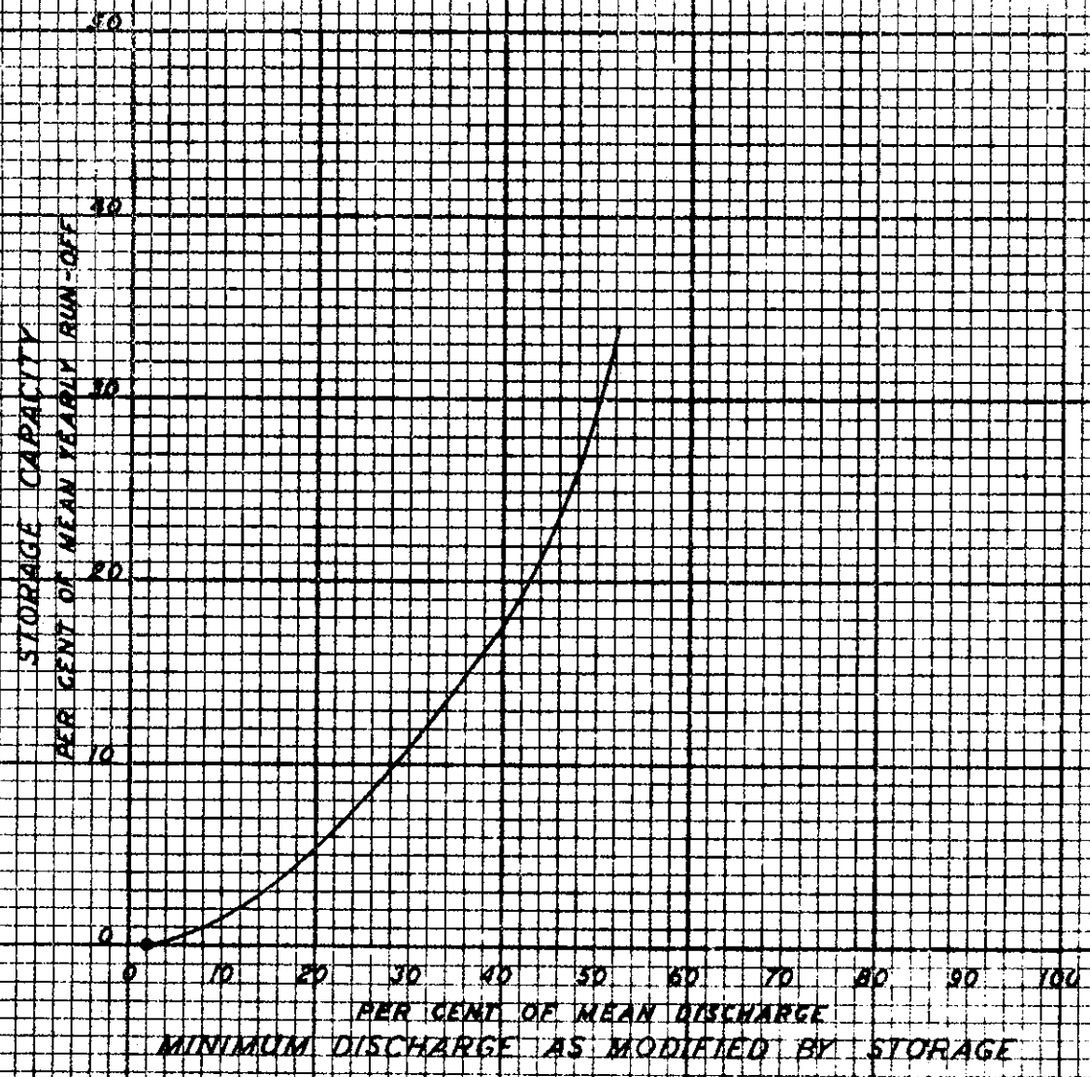
Fig 162



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

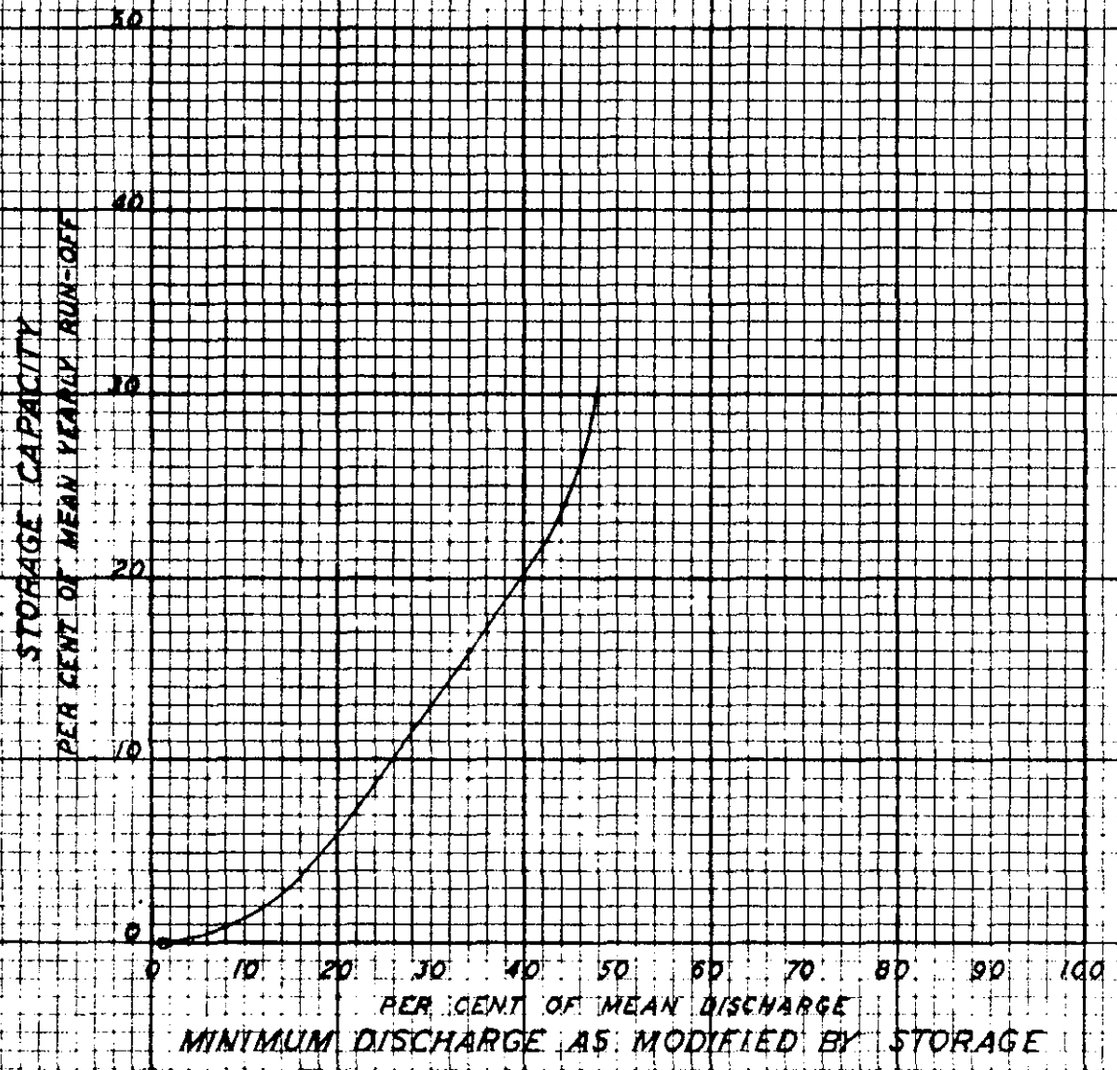
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT ERVING
JUNE 1, 1929 TO JUNE 30, 1931
DRAINAGE AREA 372 SQUARE MILES
PERIOD COVERED AUG. 1, 1914 TO SEPT. 30, 1931

Fig 165



SIP POND BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 12, 1924 TO MARCH 28, 1925; JUNE 18, 1929 TO JUNE 18, 1931
DRAINAGE AREA 100 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPTEMBER 30, 1931

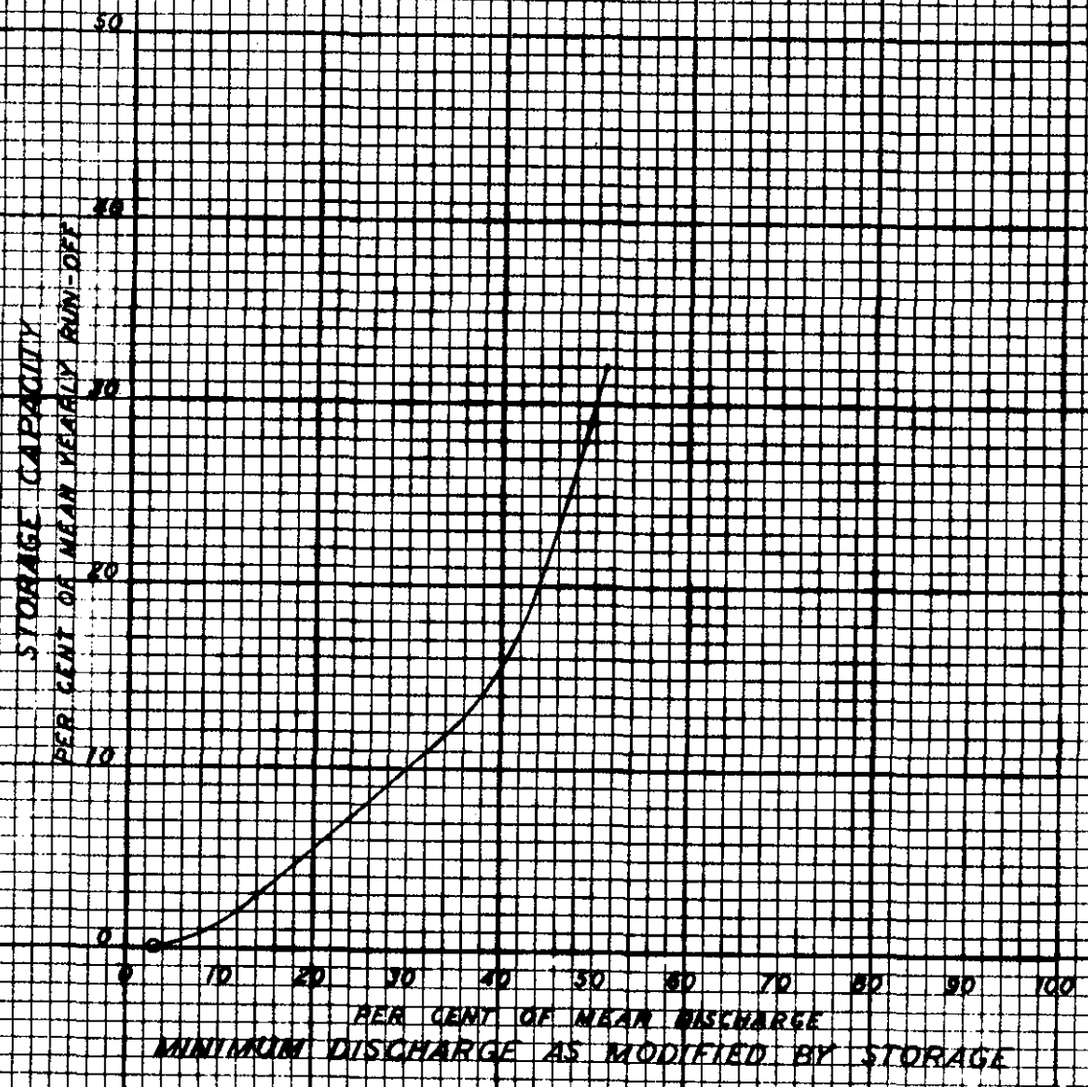
Fig. 114



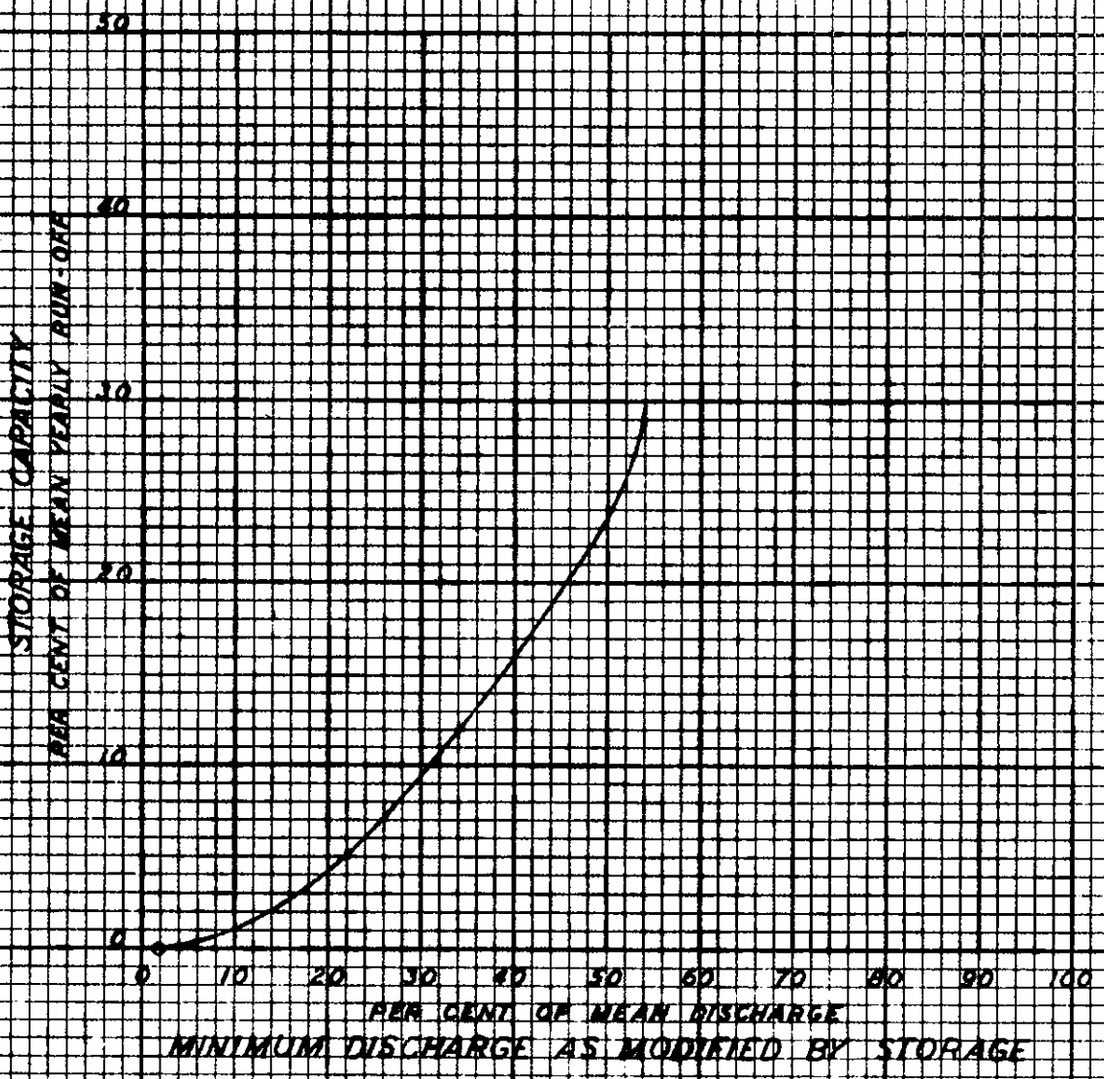
MINIMUM DISCHARGE AS MODIFIED BY STORAGE

PRIEST BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR WINCHENDON
JUNE 6, 1924 TO MARCH 10, 1925; JUNE 15, 1929 TO APRIL 30, 1931
DRAINAGE AREA 18.8 SQUARE MILES
PERIOD COVERED MAY 1, 1916 TO SEPT. 30, 1917
JULY 1, 1918 TO SEPT. 30, 1931

Fig 145

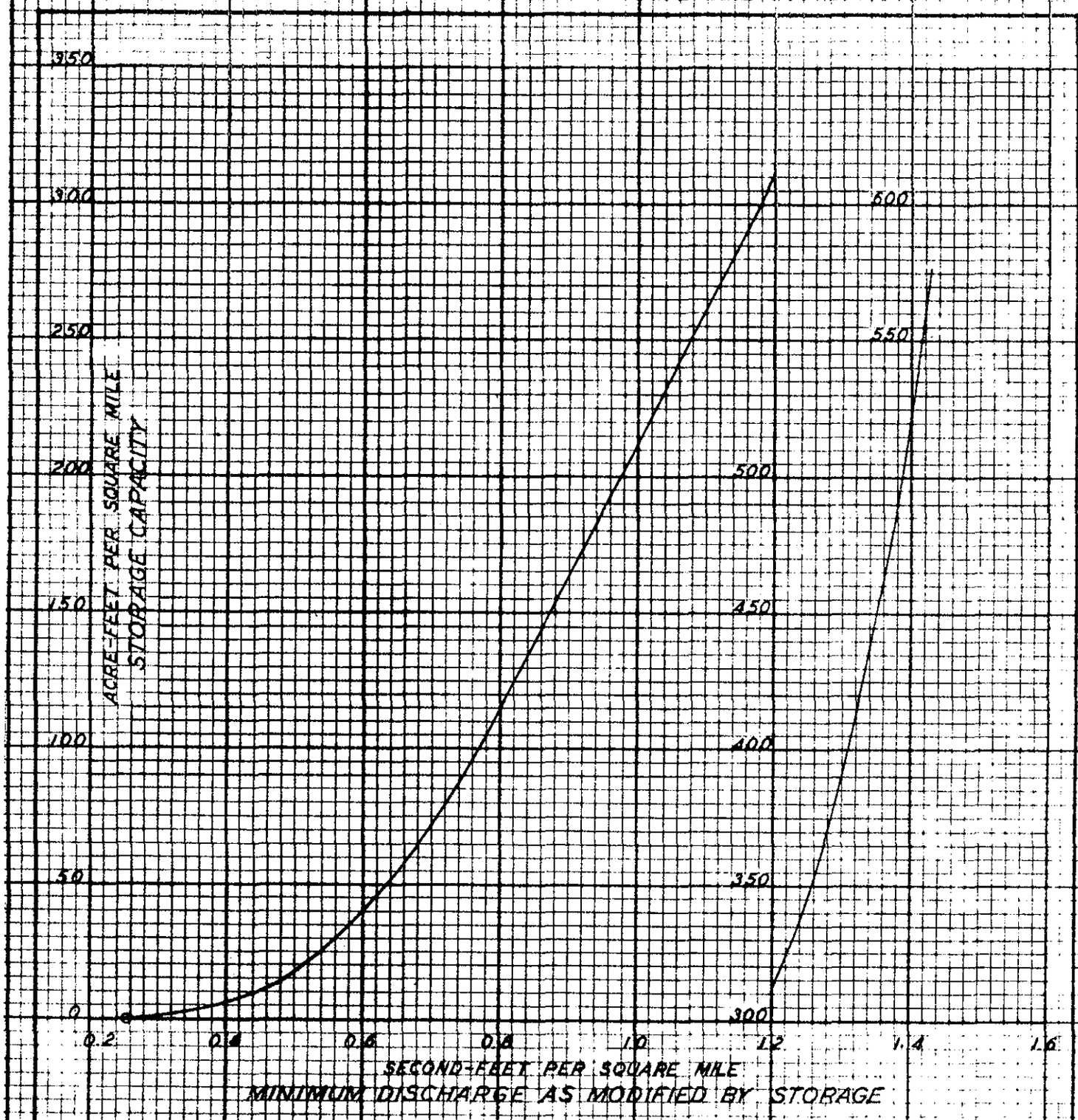


EAST BRANCH OF TULLY RIVER
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR ATHOL
JULY 1, 1929 TO JUNE 10, 1931
DRAINAGE AREA 302 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPTEMBER 30, 1931



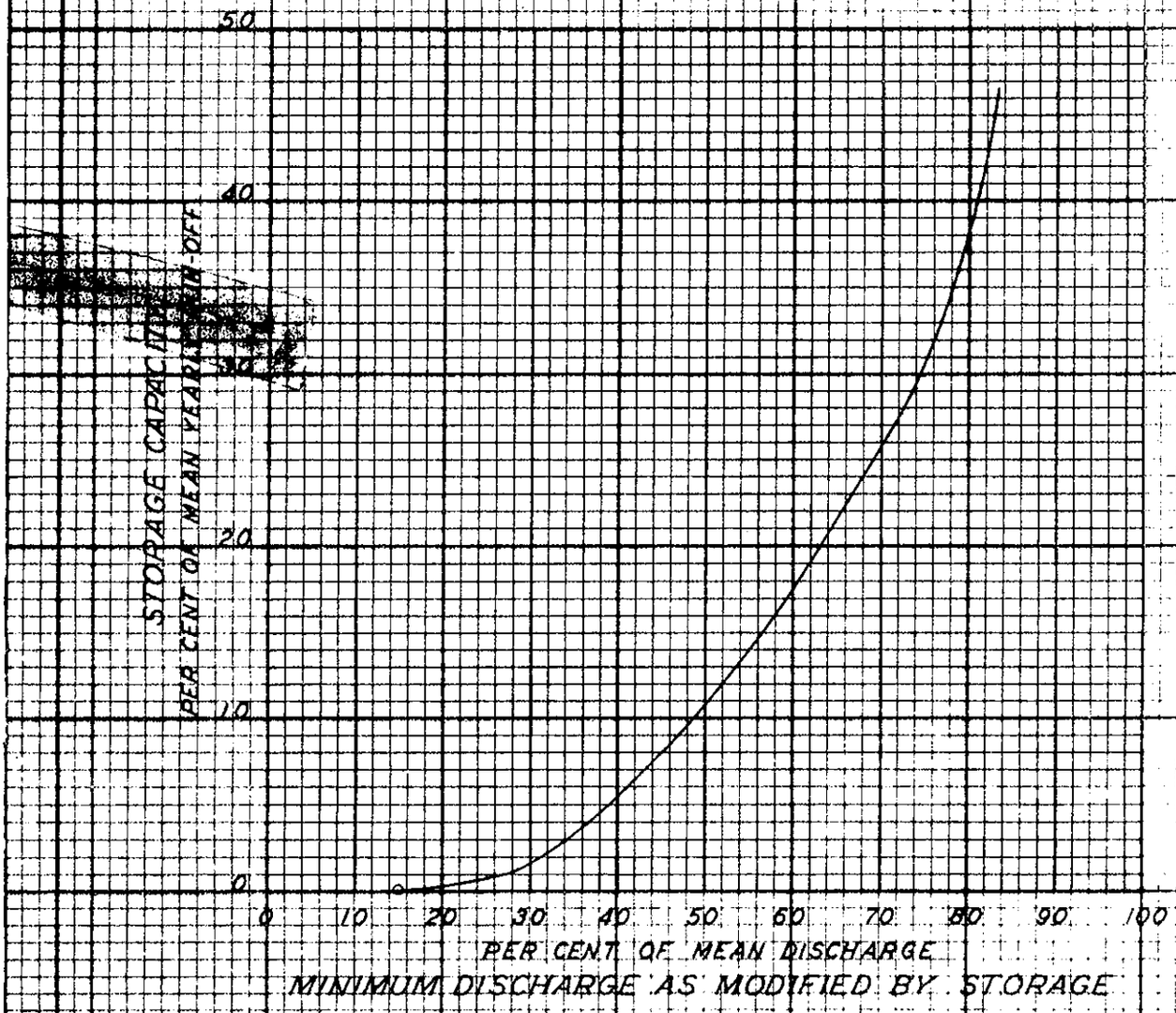
MINIMUM DISCHARGE AS MODIFIED BY STORAGE

MOSS BROOK
MILLERS RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT WENDELL DEPOT
JULY 1, 1929 TO JUNE 22, 1931
DRAINAGE AREA 12.2 SQUARE MILES
PERIOD COVERED JUNE 1, 1916 TO SEPT. 30, 1931



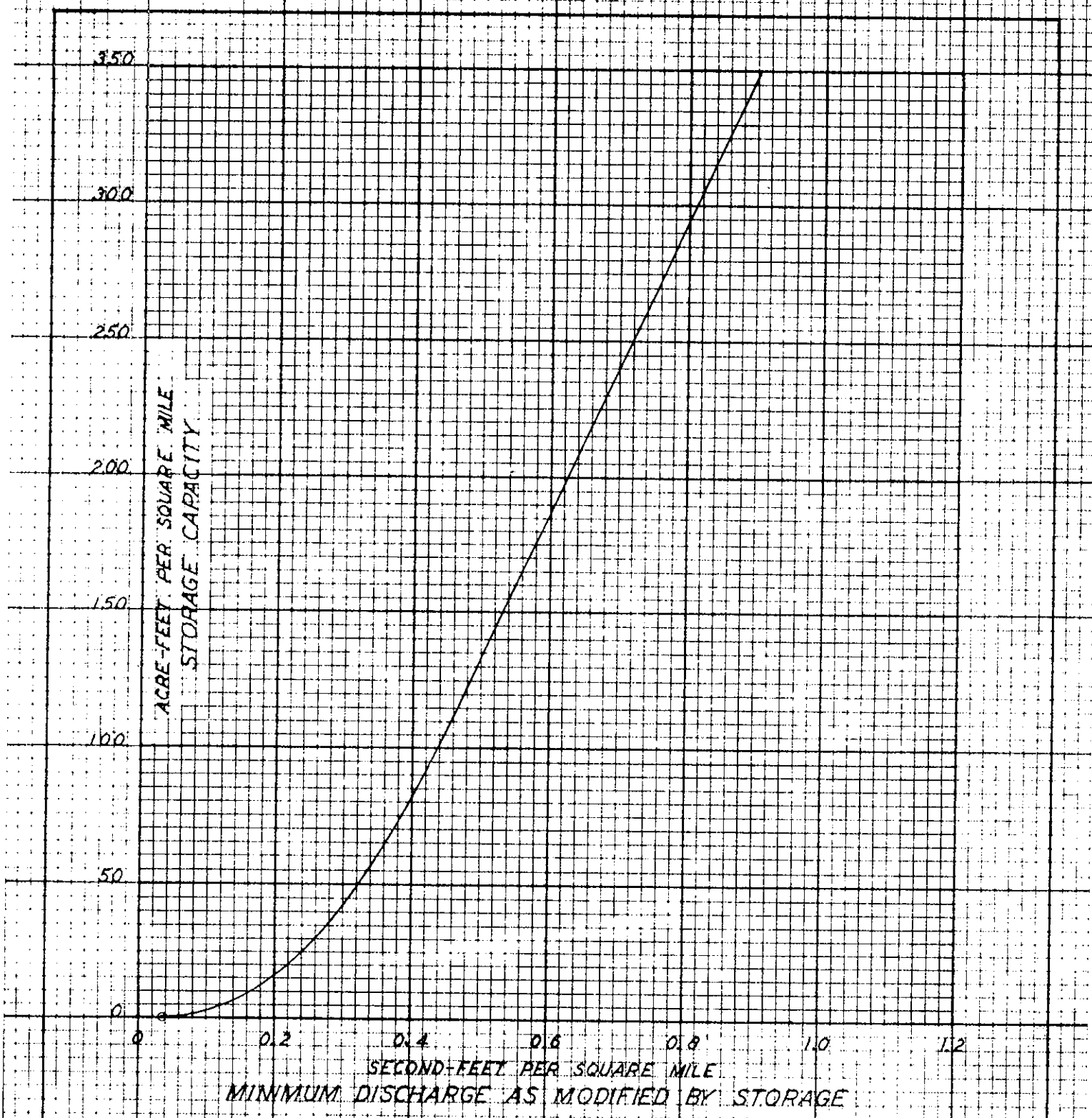
PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT PIERCE'S MILLS
JUNE 1, 1913 TO MAY 17, 1914 AND MAY 24, 1914 TO APRIL 3, 1916
DRAINAGE AREA 237 SQUARE MILES
PERIOD COVERED MAY 1, 1909 TO JULY 31, 1919

Figure 16



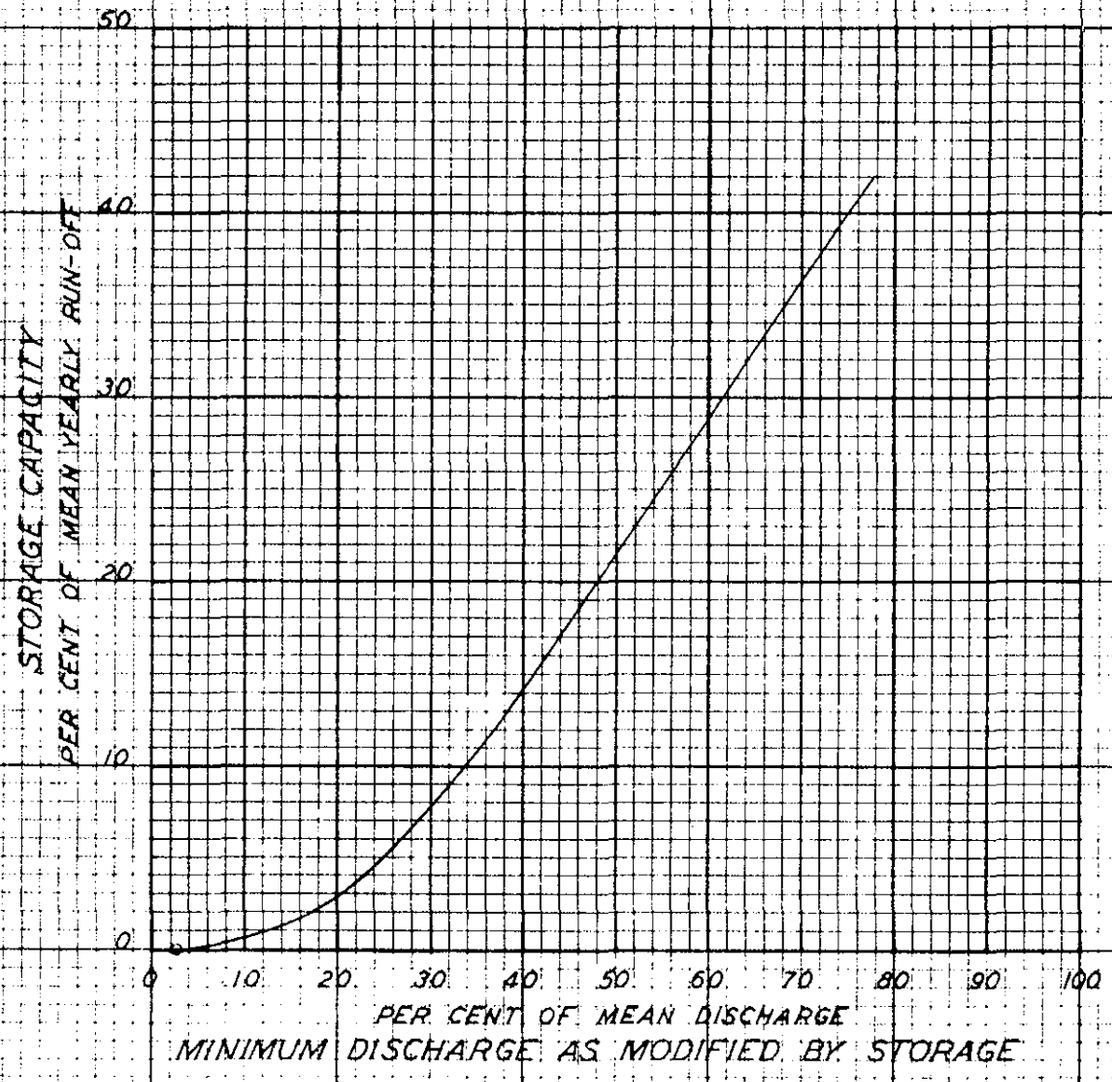
PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT PIERCES MILLS
JUNE 1, 1913 TO MAY 17, 1914 AND MAY 26, 1914 TO APRIL 3, 1916
DRAINAGE AREA 237 SQUARE MILES
PERIOD COVERED MAY 1, 1909 TO JULY 31, 1919

Figure 17



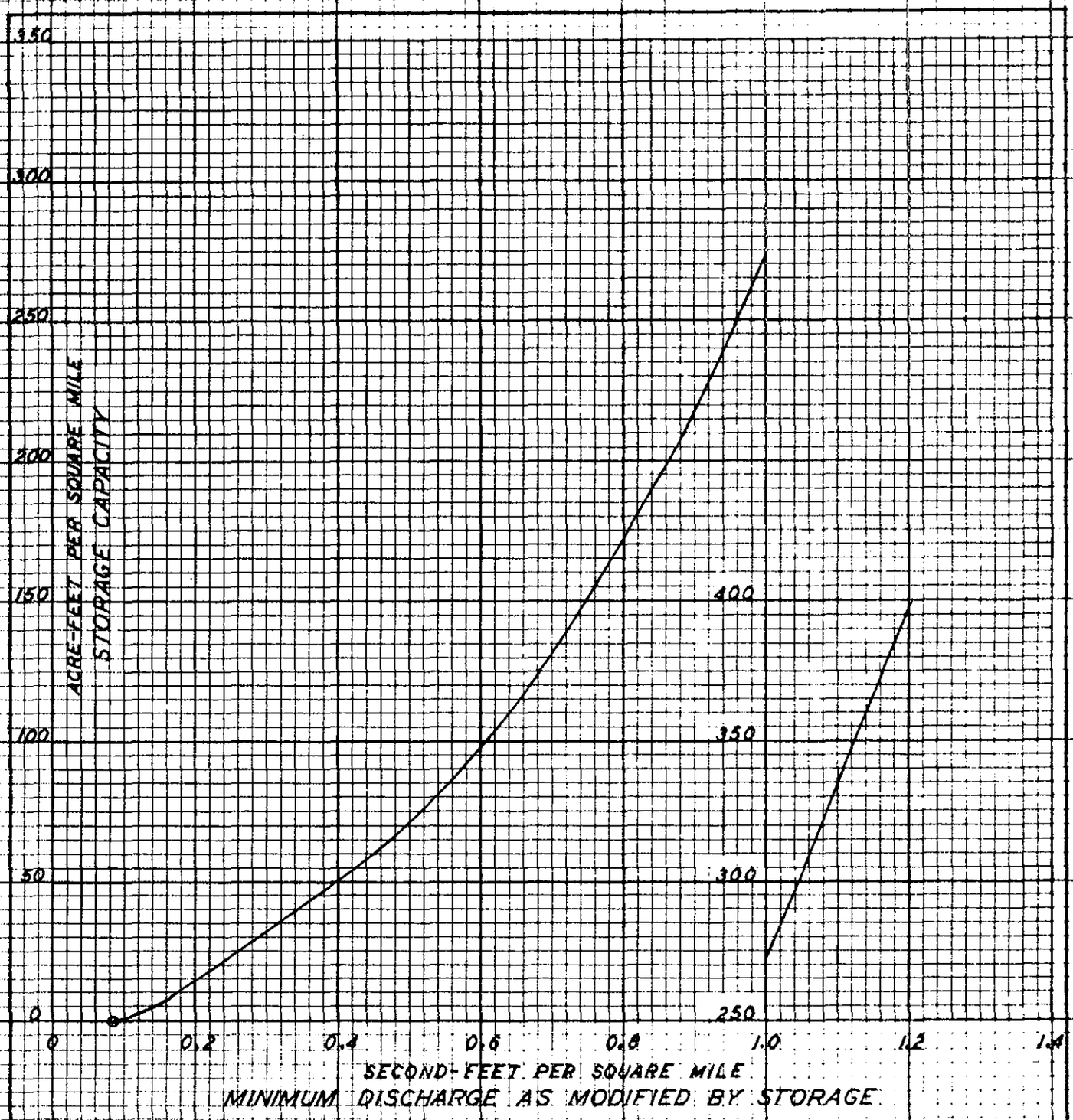
SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
BASED ON MEAN MONTHLY DISCHARGES AT WEST CLAREMONT
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 270 SQUARE MILES
PERIOD COVERED OCTOBER 1, 1928 TO SEPTEMBER 30, 1931

FIGURE 2



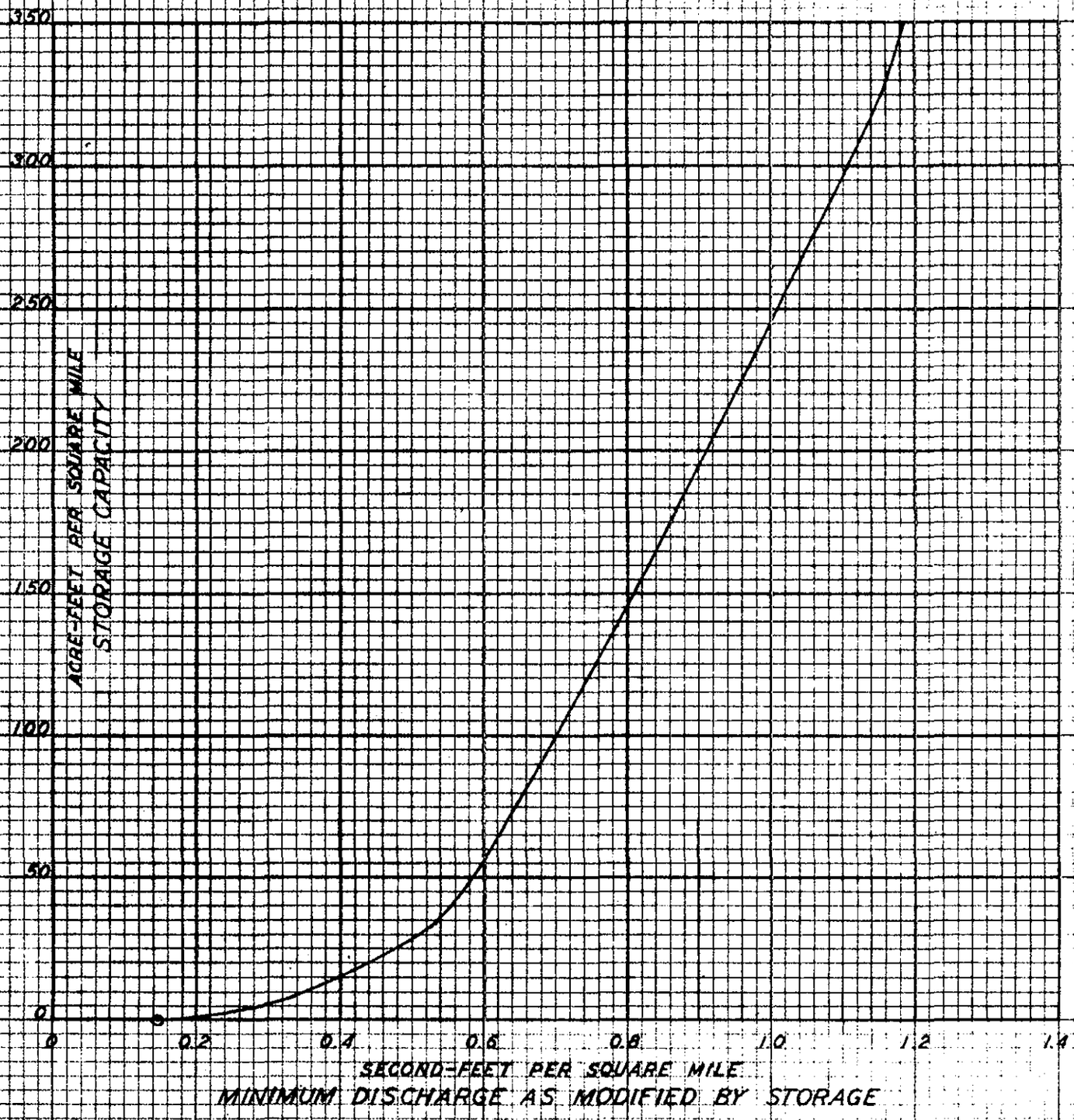
SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM NATURAL DISCHARGE
PERCENTAGE BASIS
BASED ON MEAN MONTHLY DISCHARGES AT WEST CLAREMONT
CORRECTED FOR EXISTING STORAGE
JUNE 1, 1930 TO JULY 31, 1931
DRAINAGE AREA 270 SQUARE MILES
PERIOD COVERED OCTOBER 1, 1928 TO SEPTEMBER 30, 1931

FIGURE 6



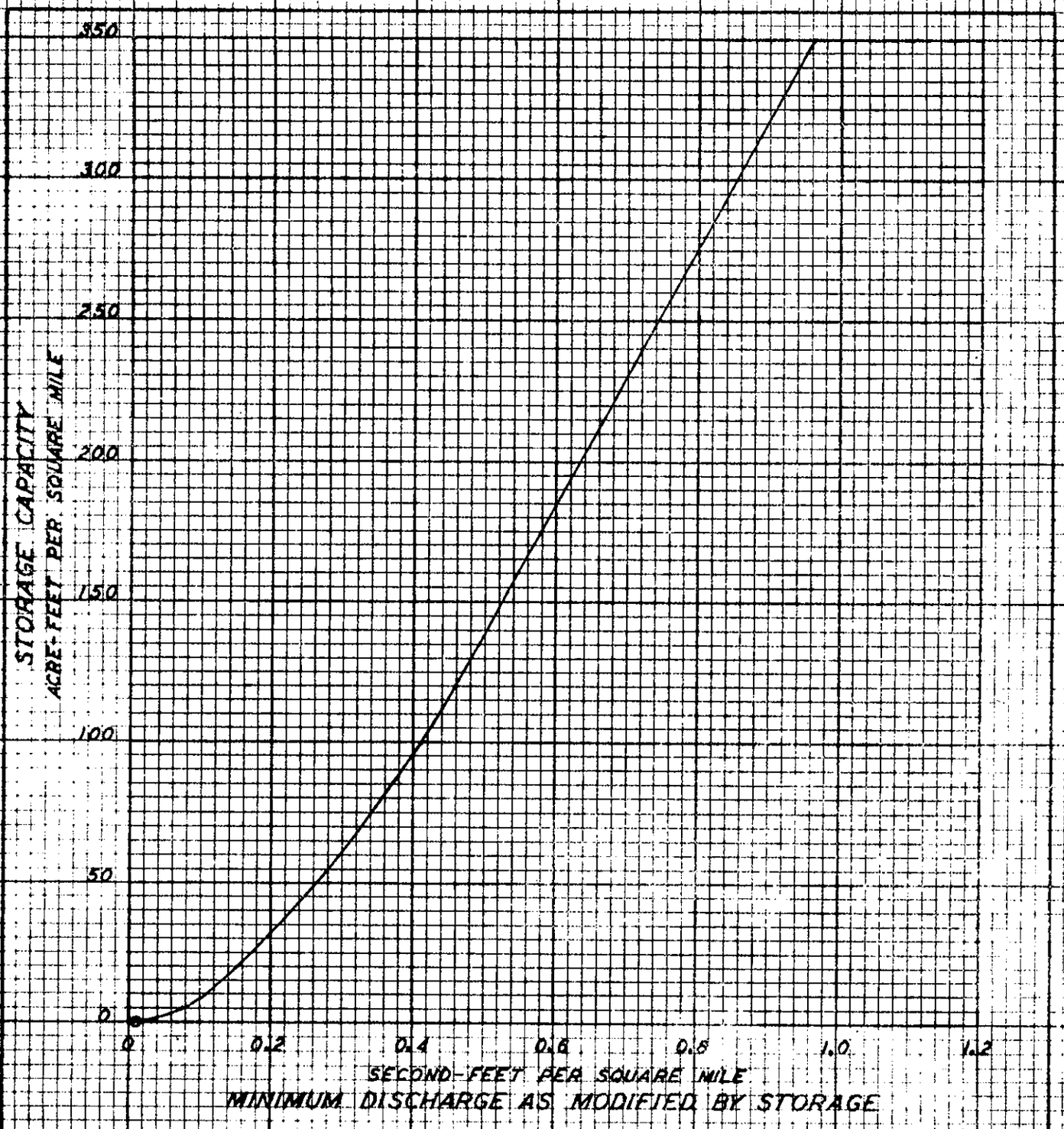
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT KNIGHTVILLE
JUNE 14, 1913 TO OCT. 29, 1913, JULY 15, 1914 TO JAN. 7, 1915 AND
JUNE 1, 1929 TO MAY 2, 1931
DRAINAGE AREA 162 SQUARE MILES
PERIOD COVERED AUG. 1, 1909 TO MAY 2, 1931

Fig. 172



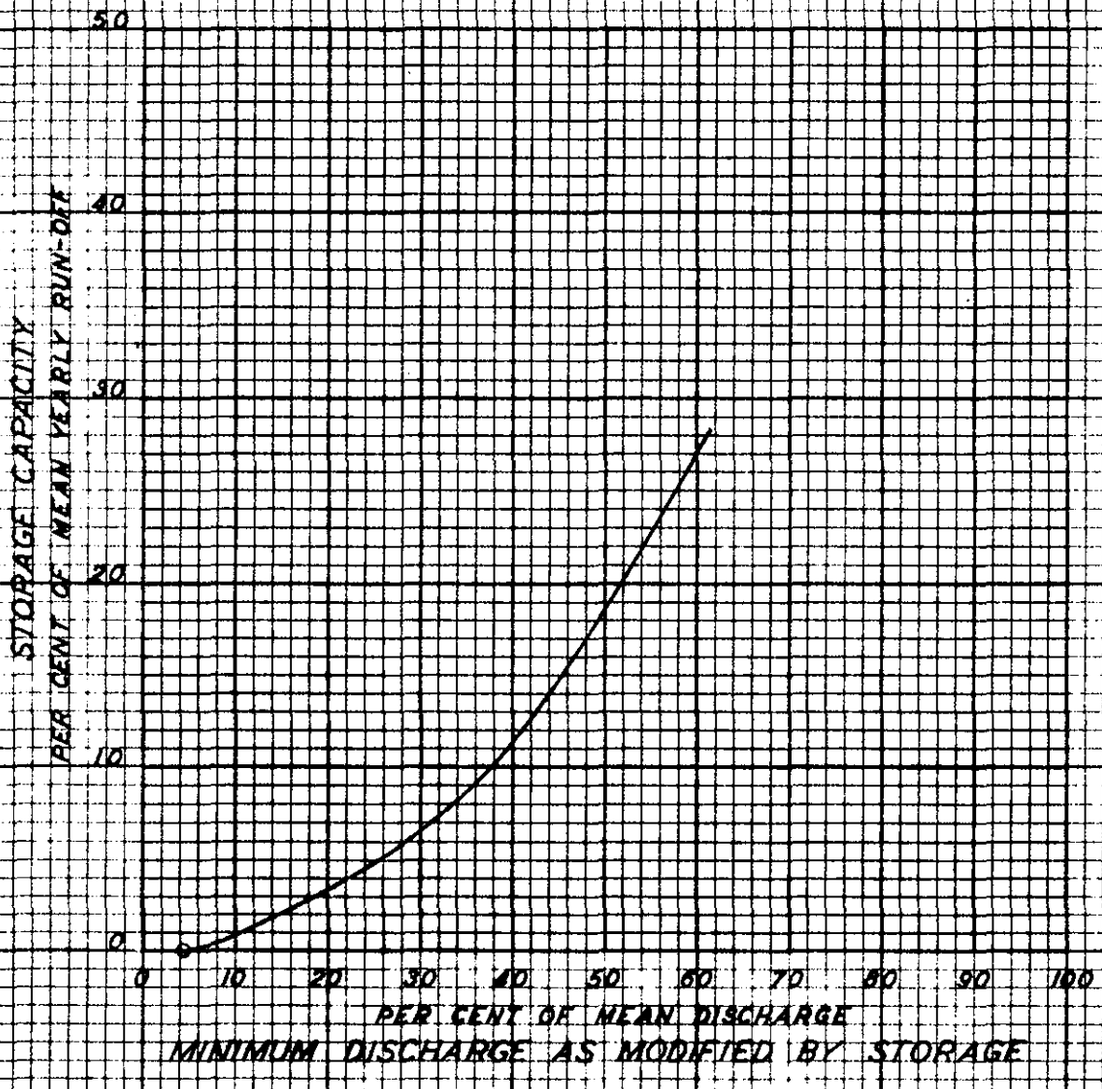
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES NEAR WESTFIELD
SEPT. 22, 1914 TO JAN. 15, 1915 AND JUNE 1, 1929 TO MARCH 30, 1931
DRAINAGE AREA 496 SQUARE MILES
PERIOD COVERED JULY 1, 1914 TO MARCH 30, 1931

Fig 173



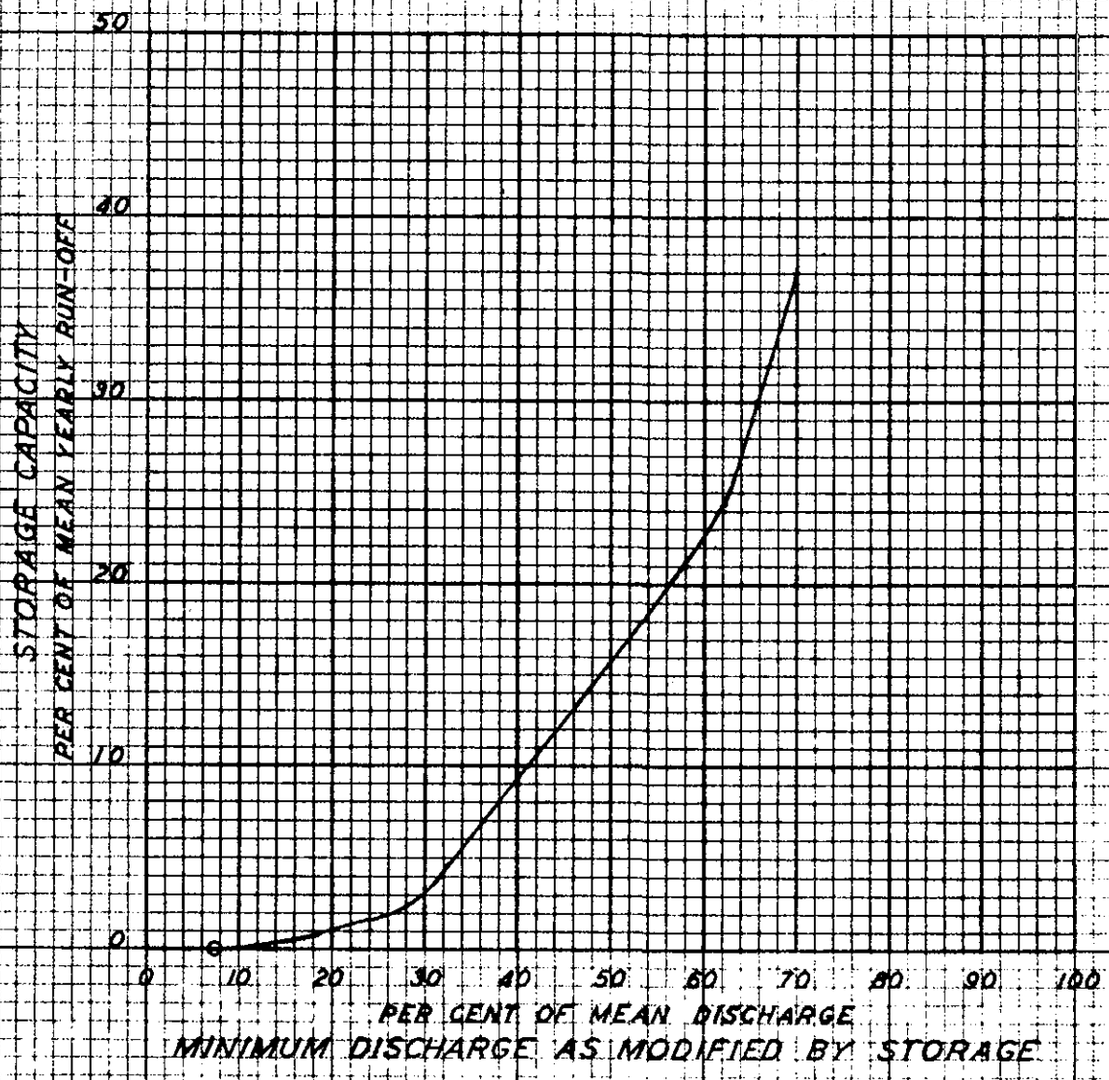
MIDDLE BRANCH OF
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT GOSS HEIGHTS
MAY 25, 1914 TO APRIL 12, 1915
DRAINAGE AREA 53 SQUARE MILES
PERIOD COVERED JULY 1, 1910 TO FEBRUARY 28, 1931

Fig. 17



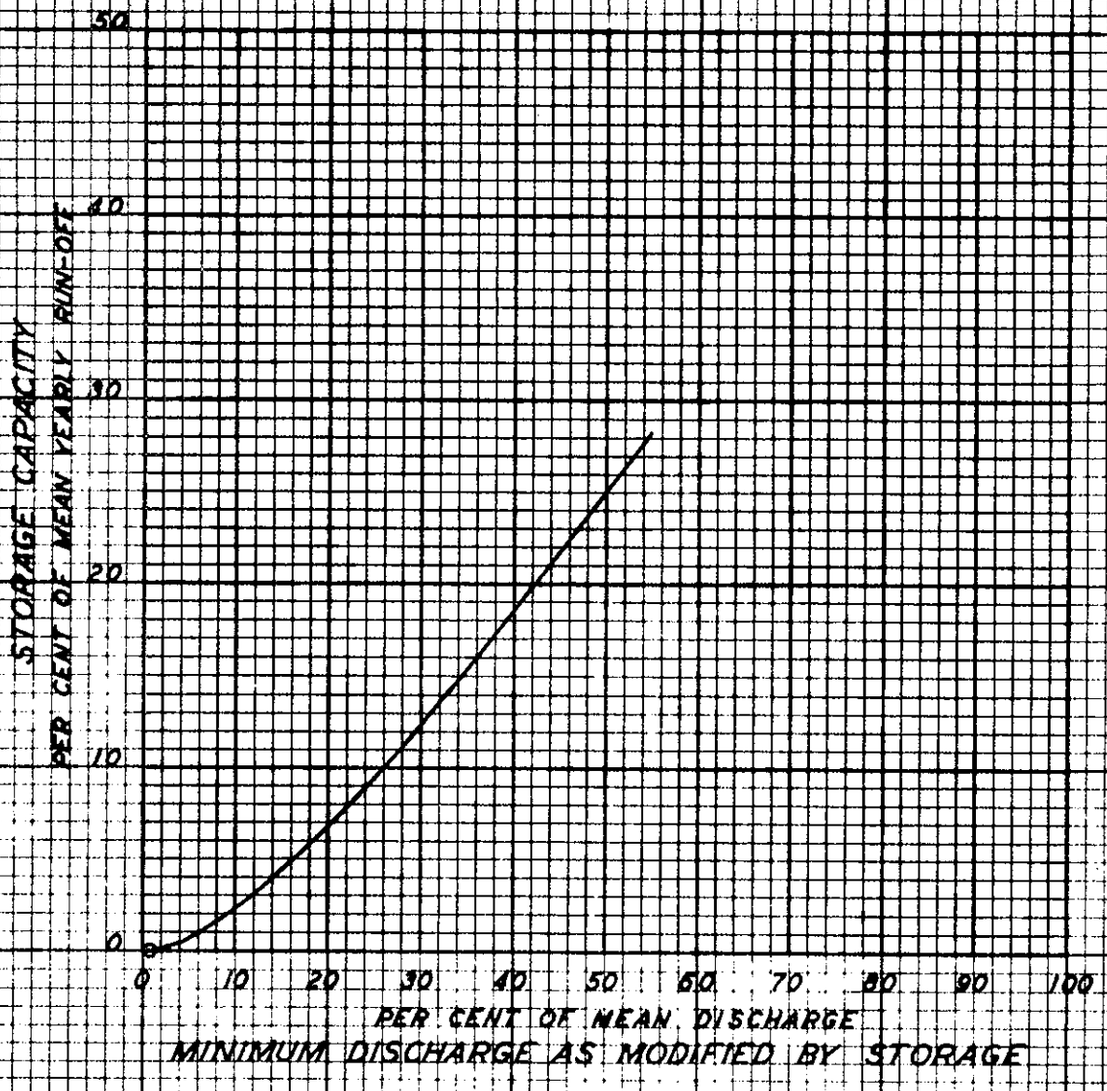
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT KNIGHTVILLE
JUNE 14, 1913 TO OCT. 29, 1913, JULY 15, 1914 TO JAN. 7, 1915 AND
JUNE 1, 1929 TO MAY 2, 1931
DRAINAGE AREA 162 SQUARE MILES
PERIOD COVERED AUG. 1, 1908 TO MAY 2, 1931

Fig. 175



WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES NEAR WESTFIELD
SEPT. 22, 1914 TO JAN. 15, 1915 AND JUNE 1, 1929 TO MARCH 30, 1931
DRAINAGE AREA 496 SQUARE MILES
PERIOD COVERED JULY 1, 1914 TO MARCH 30, 1931

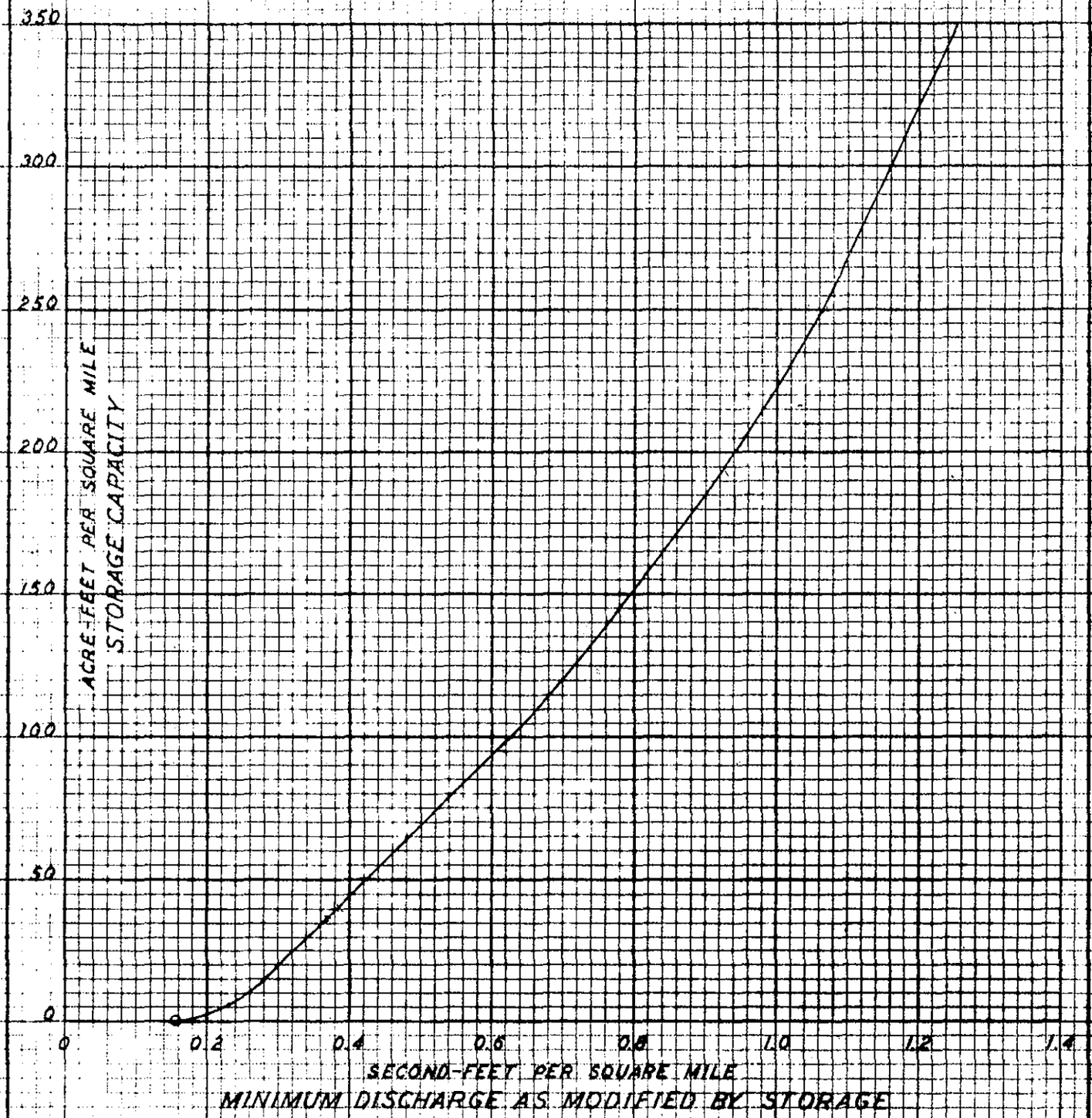
Fig 176



MINIMUM DISCHARGE AS MODIFIED BY STORAGE

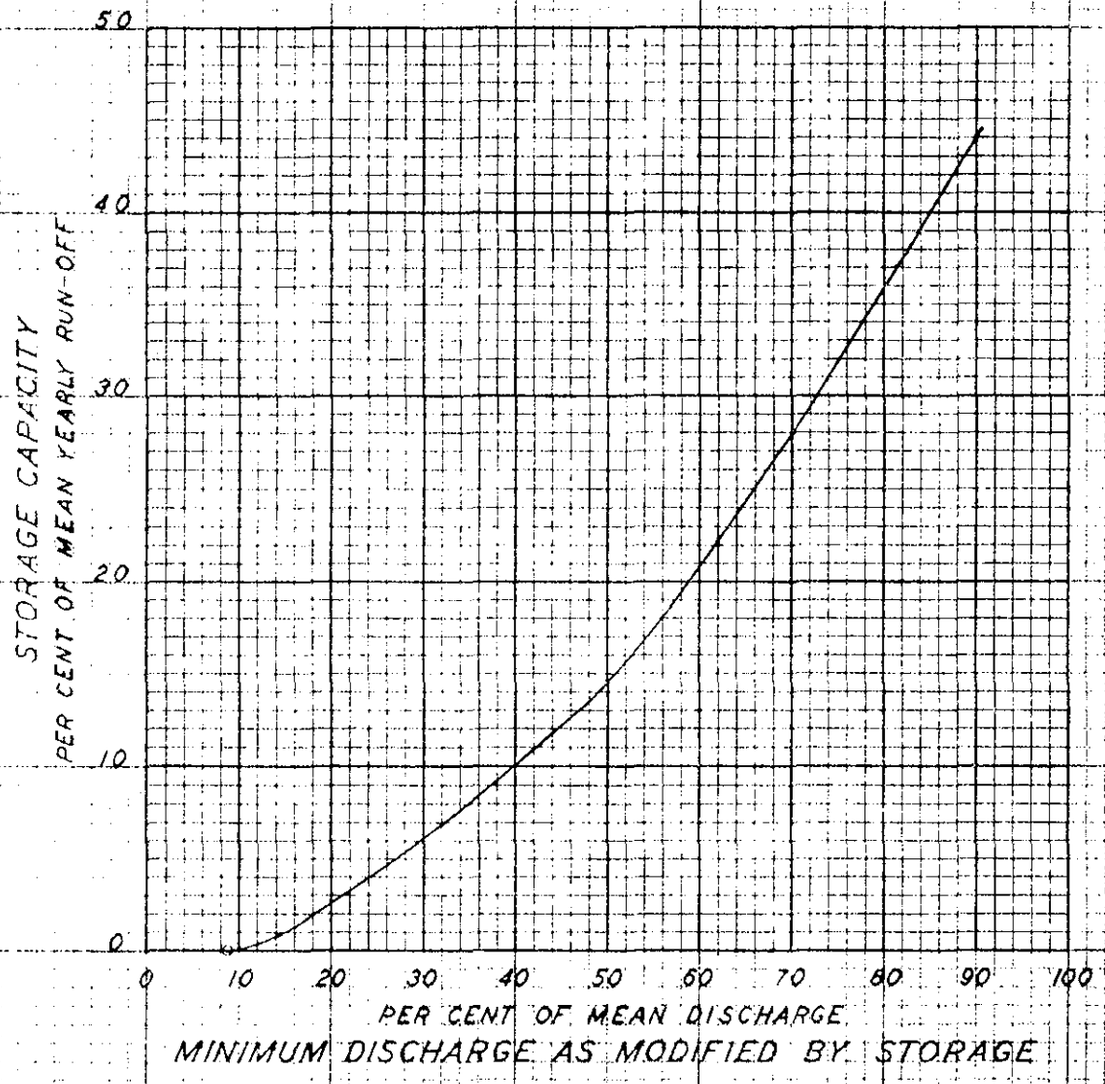
MIDDLE BRANCH OF
WESTFIELD RIVER, MASSACHUSETTS
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT GOSS HEIGHTS
MAY 25, 1914 TO APRIL 12, 1915
DRAINAGE AREA 53 SQUARE MILES
PERIOD COVERED JULY 1, 1910 TO FEBRUARY 28, 1931

Fig. 117



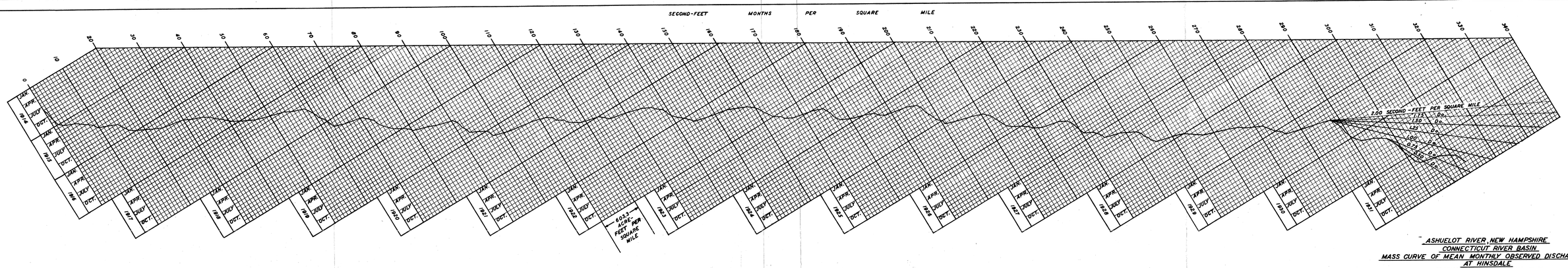
WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
BASED ON DAILY DISCHARGES AT WEST HARTFORD
MAY 1, 1921 TO NOVEMBER 24, 1928
DRAINAGE AREA 687 SQUARE MILES
PERIOD COVERED OCT. 1, 1915 TO DEC. 31, 1929

FIGURE 10



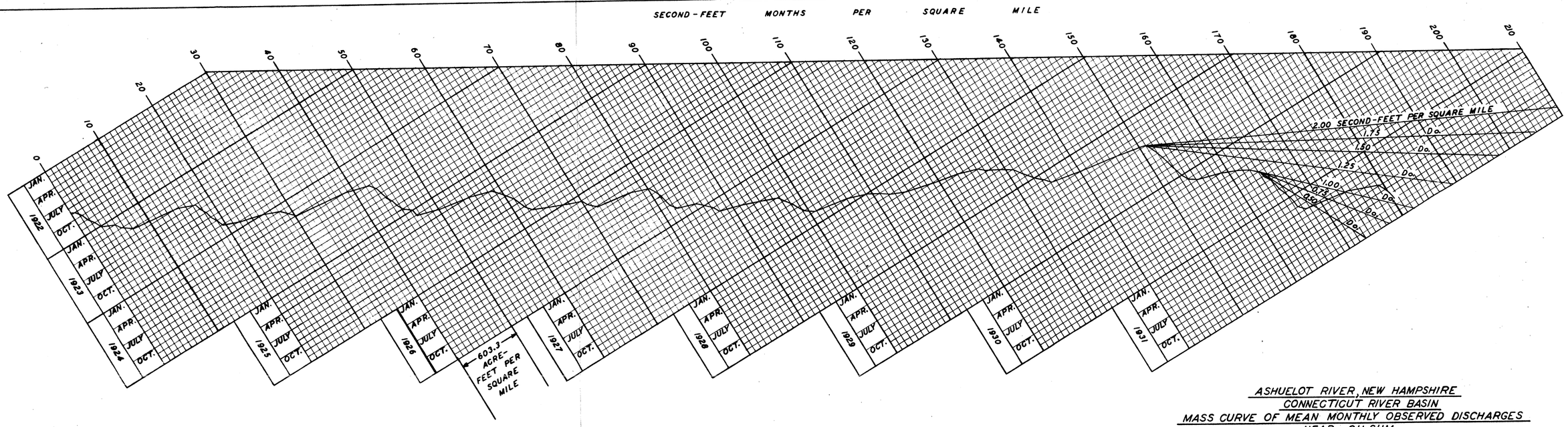
WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
GRAPH SHOWING EFFECT OF
STORAGE ON MINIMUM DISCHARGE
PERCENTAGE BASIS
BASED ON DAILY DISCHARGES AT WEST HARTFORD
MAY 1, 1921 TO NOVEMBER 24, 1923
DRAINAGE AREA 687 SQUARE MILES
PERIOD COVERED OCT. 1, 1915 TO DEC. 31, 1929

FIGURE H.



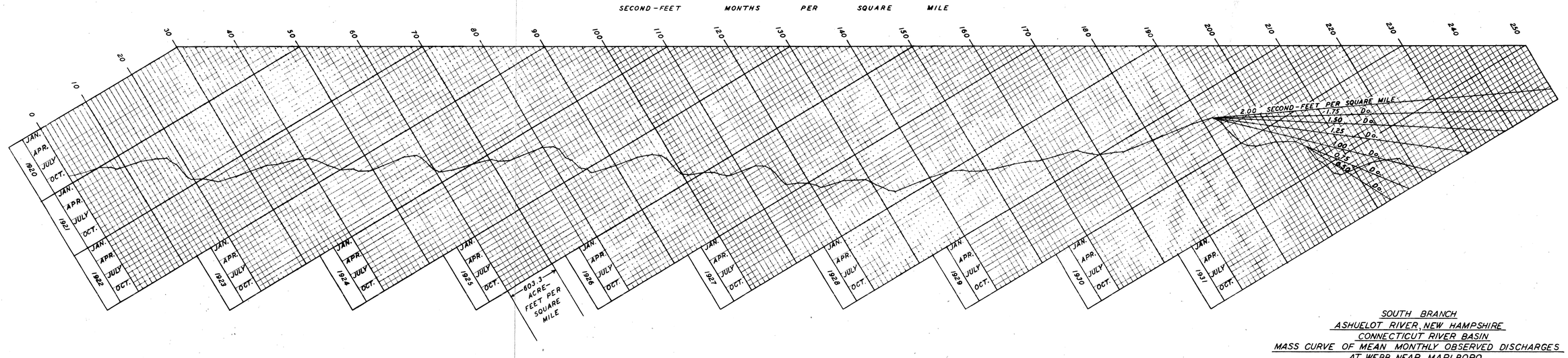
ASHUELOT RIVER NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY OBSERVED DISCHARGES
AT HINSDALE
DRAINAGE AREA 420 SQUARE MILES

FIGURE 30



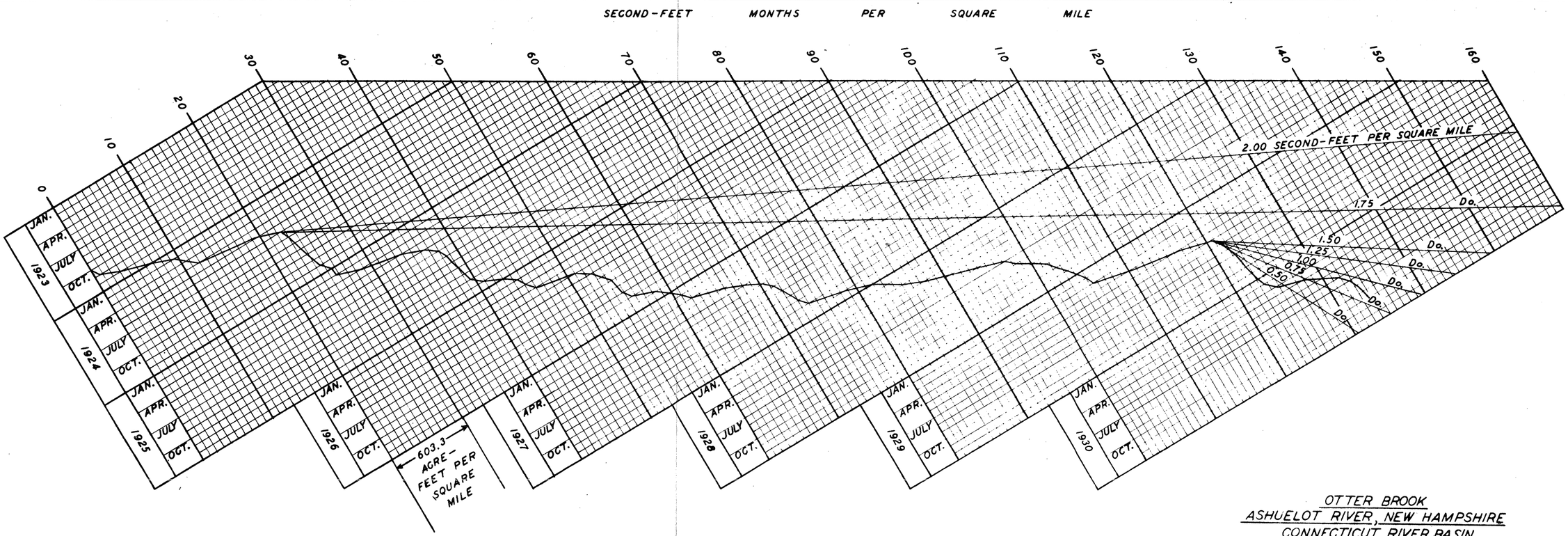
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY OBSERVED DISCHARGES
NEAR GILSUM
DRAINAGE AREA 71.1 SQUARE MILES

FIGURE 31



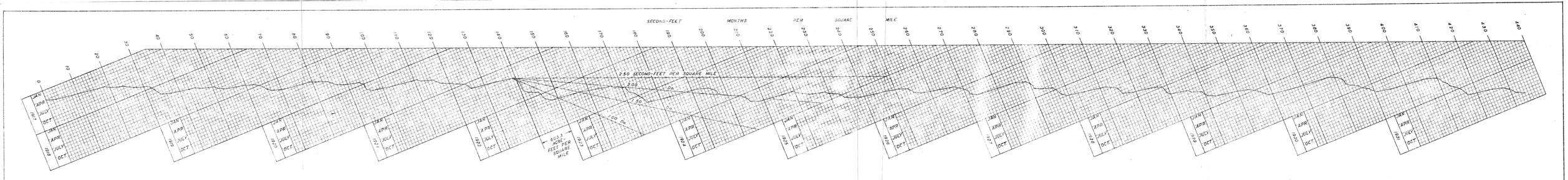
SOUTH BRANCH
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY OBSERVED DISCHARGES
AT WEBB NEAR MARLBORO
DRAINAGE AREA 36.6 SQUARE MILES

FIGURE 32

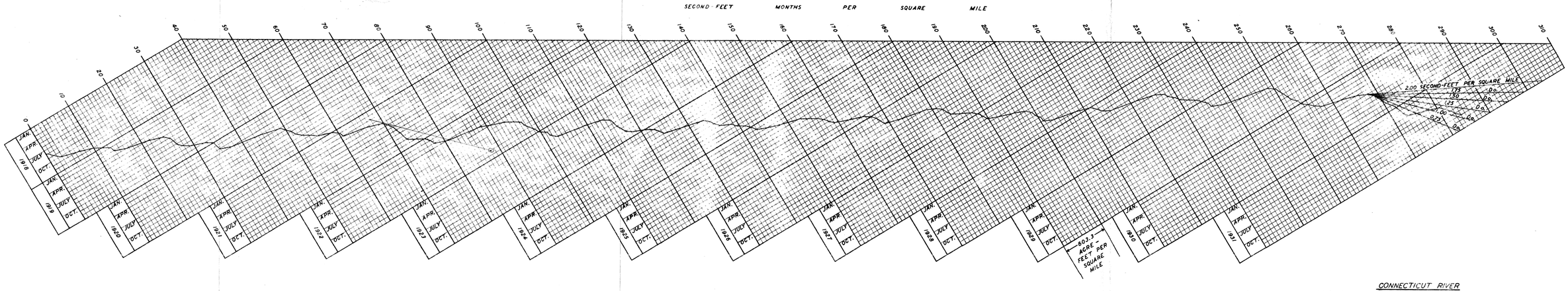


OTTER BROOK
ASHUELOT RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY OBSERVED DISCHARGES
NEAR KEENE
DRAINAGE AREA 41.8 SQUARE MILES

FIGURE 33

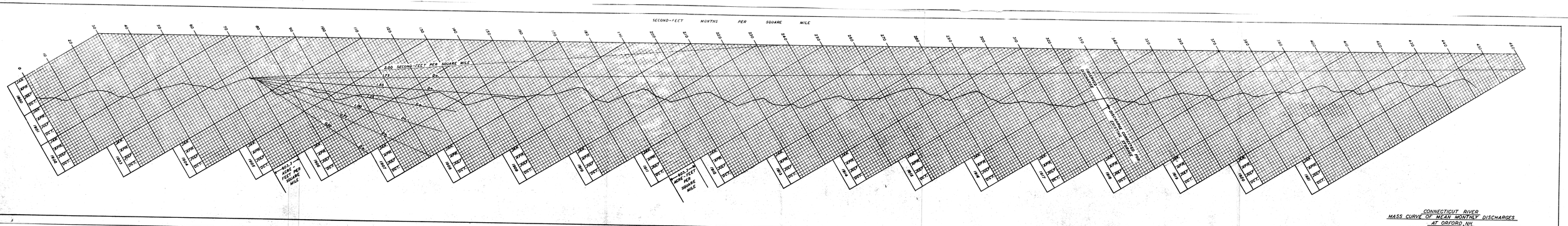


CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY NATURAL DISCHARGES
AT FIRST CONNECTICUT LAKE, NEAR PITTSBURG, N.H.
DRAINAGE AREA 82.5 SQUARE MILES.

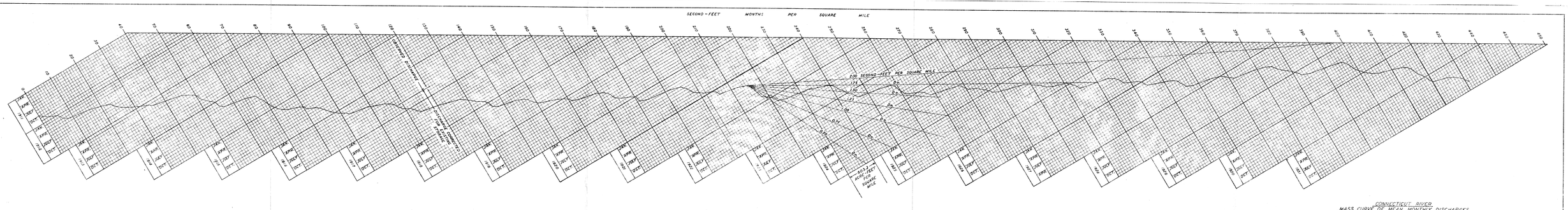


CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY NATURAL DISCHARGES
AT SOUTH NEWBURY, N.H.
DRAINAGE AREA 2,830 SQUARE MILES

FIGURE 53

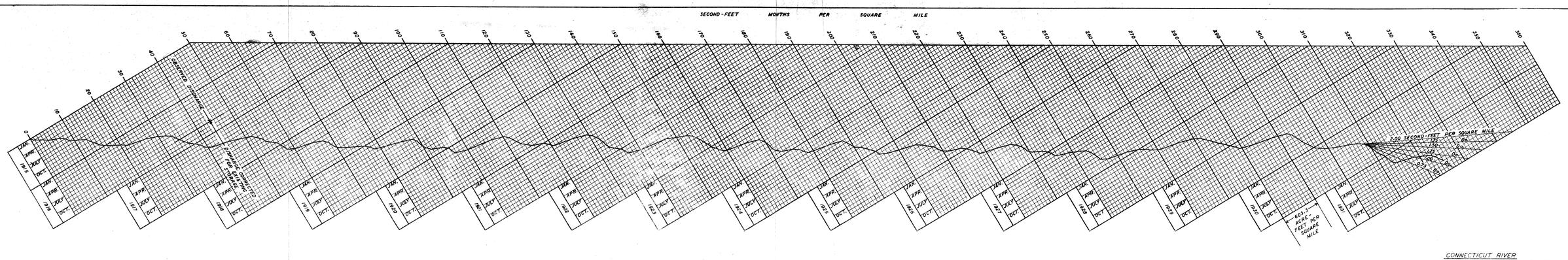


CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY DISCHARGES
AT ORFORD, NH.
DRAINAGE AREA 300 SQUARE MILES



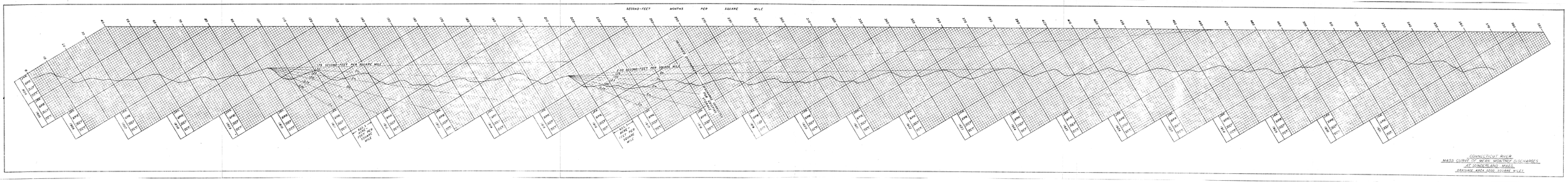
CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY DISCHARGES
AT WHITE RIVER JUNCTION, VT.
DRAINAGE AREA 4,120 SQUARE MILES

FIGURE 55

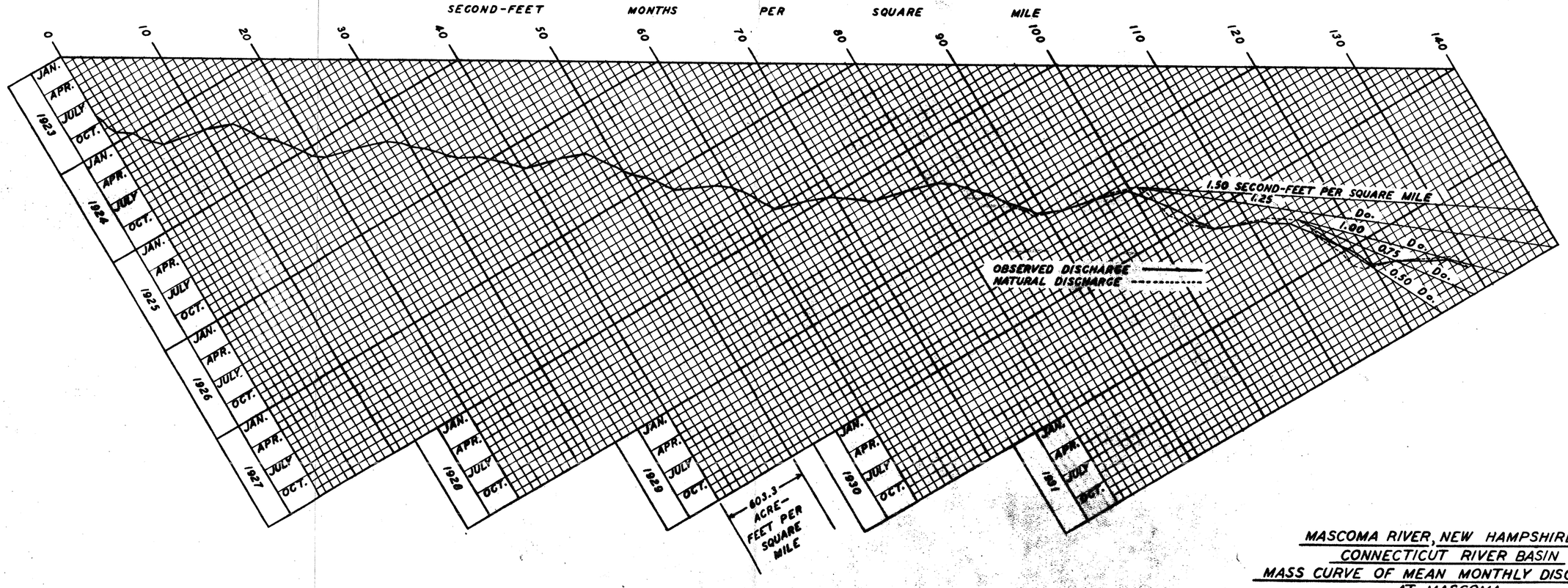


CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY DISCHARGES
AT TURNERS FALLS, MASS.
DRAINAGE AREA 7,250 SQUARE MILES.

FIGURE 86



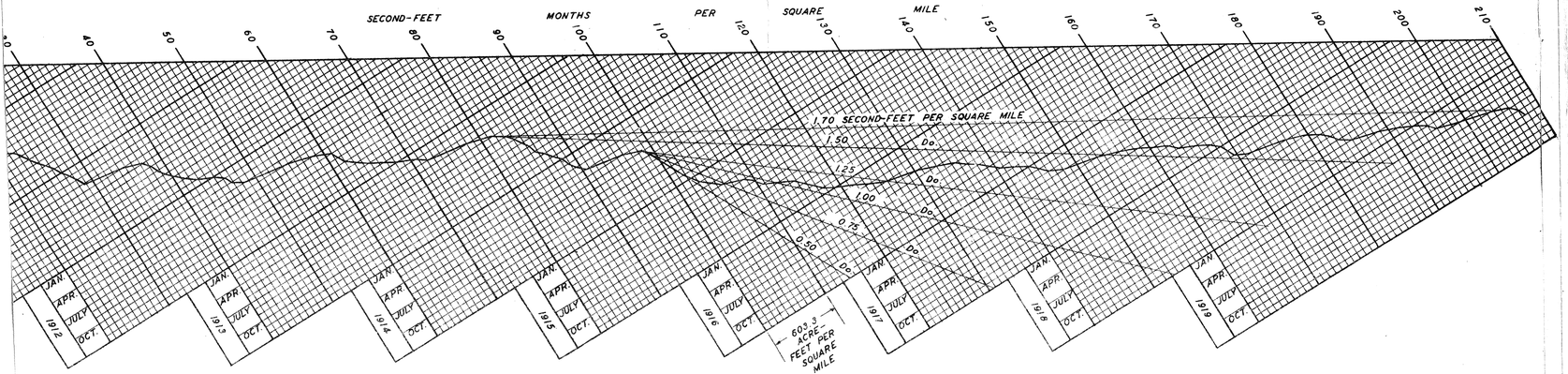
CONNECTICUT RIVER
MASS CURVE OF MEAN MONTHLY DISCHARGES
AT SUNDERLAND, MASS.
DRAINAGE AREA 2000 SQUARE MILES



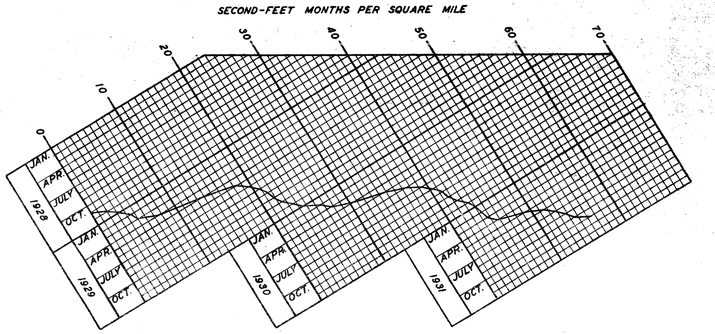
MASCOMA RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY DISCHARGES
AT MASCOMA
DRAINAGE AREA 153 SQUARE MILES

FIGURE 10.

/90

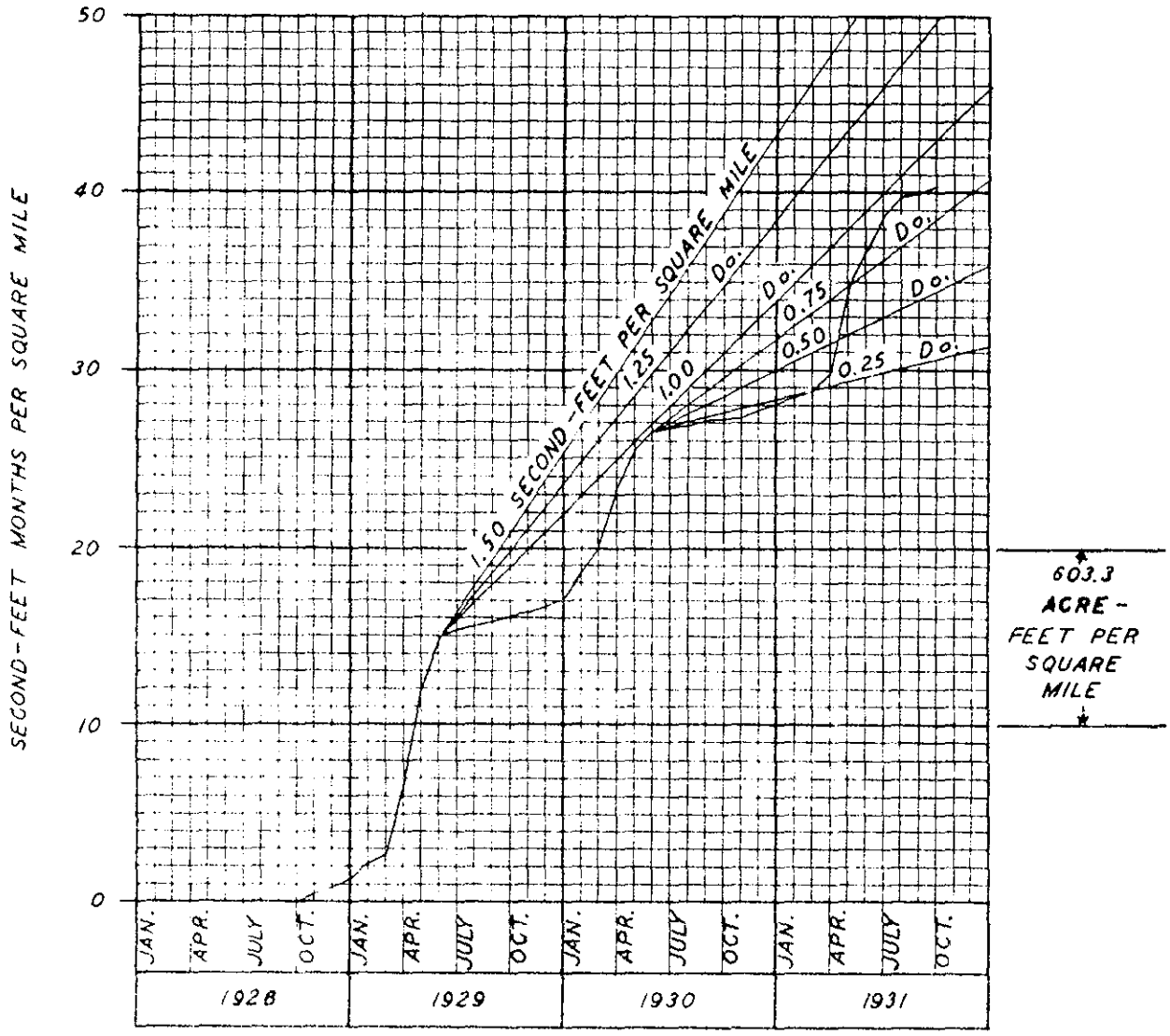


AT PIERCES MILLS, VT.
DRAINAGE AREA 237 SQUARE MILES



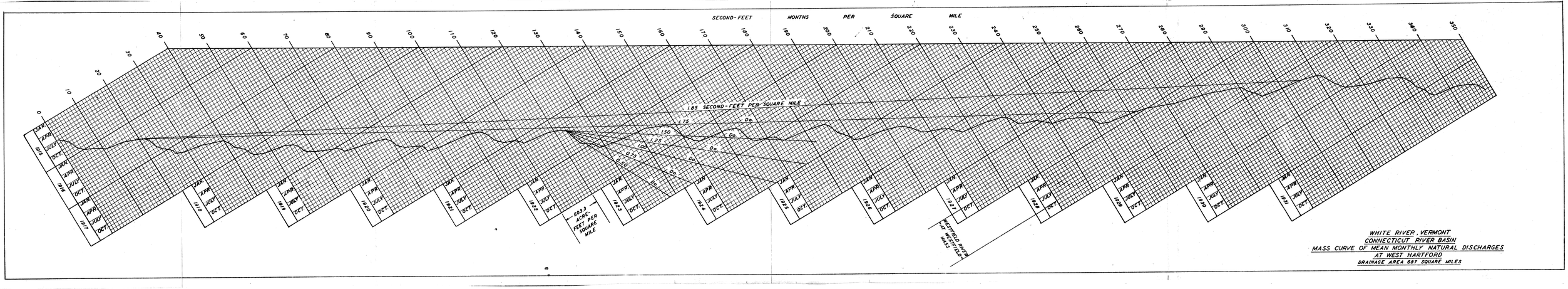
AT PASSUMPSIC, VT.
DRAINAGE AREA 423 SQUARE MILES

PASSUMPSIC RIVER, VERMONT
CONNECTICUT RIVER BASIN
MASS CURVES OF MEAN MONTHLY NATURAL DISCHARGES



SUGAR RIVER, NEW HAMPSHIRE
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY NATURAL DISCHARGES
AT WEST CLAREMONT
DRAINAGE AREA 270 SQUARE MILES

FIGURE 7 — 192



WHITE RIVER, VERMONT
CONNECTICUT RIVER BASIN
MASS CURVE OF MEAN MONTHLY NATURAL DISCHARGES
AT WEST HARTFORD
DRAINAGE AREA 687 SQUARE MILES

FIGURE 12

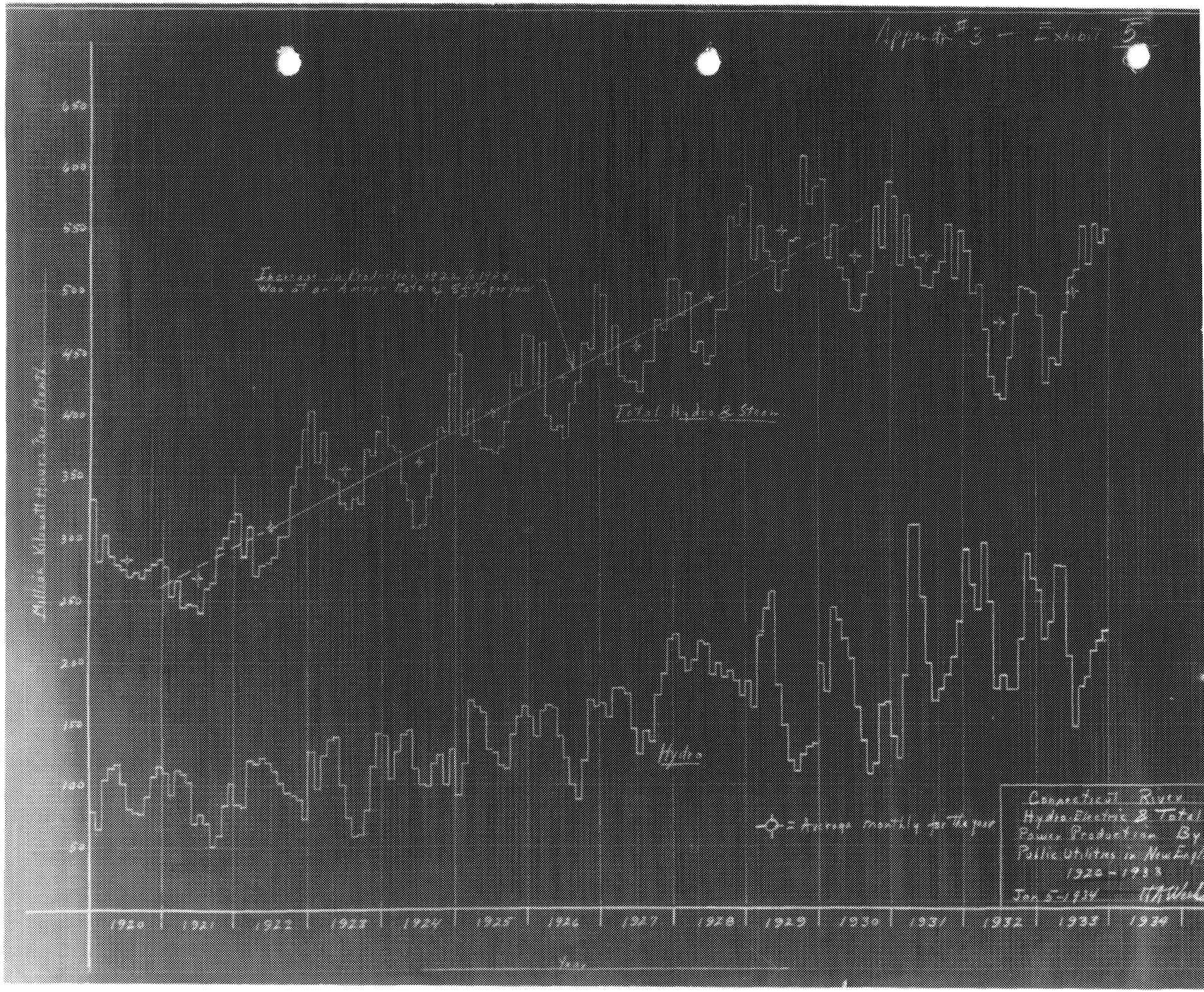

Appendix #3 — Exhibit 5
Total Hydro & Steam
Hydro
= Average monthly for the year
Connecticut River
Hydro Electric & Total
Power Production By
Public Utilities in New Engl
1920 - 1933
Jan 5-1934
1920
1921
1922
1923
1924
1925
1926
1927
1928
1929
1930
1931
1932
1933
1934
Year

Exhibit M-

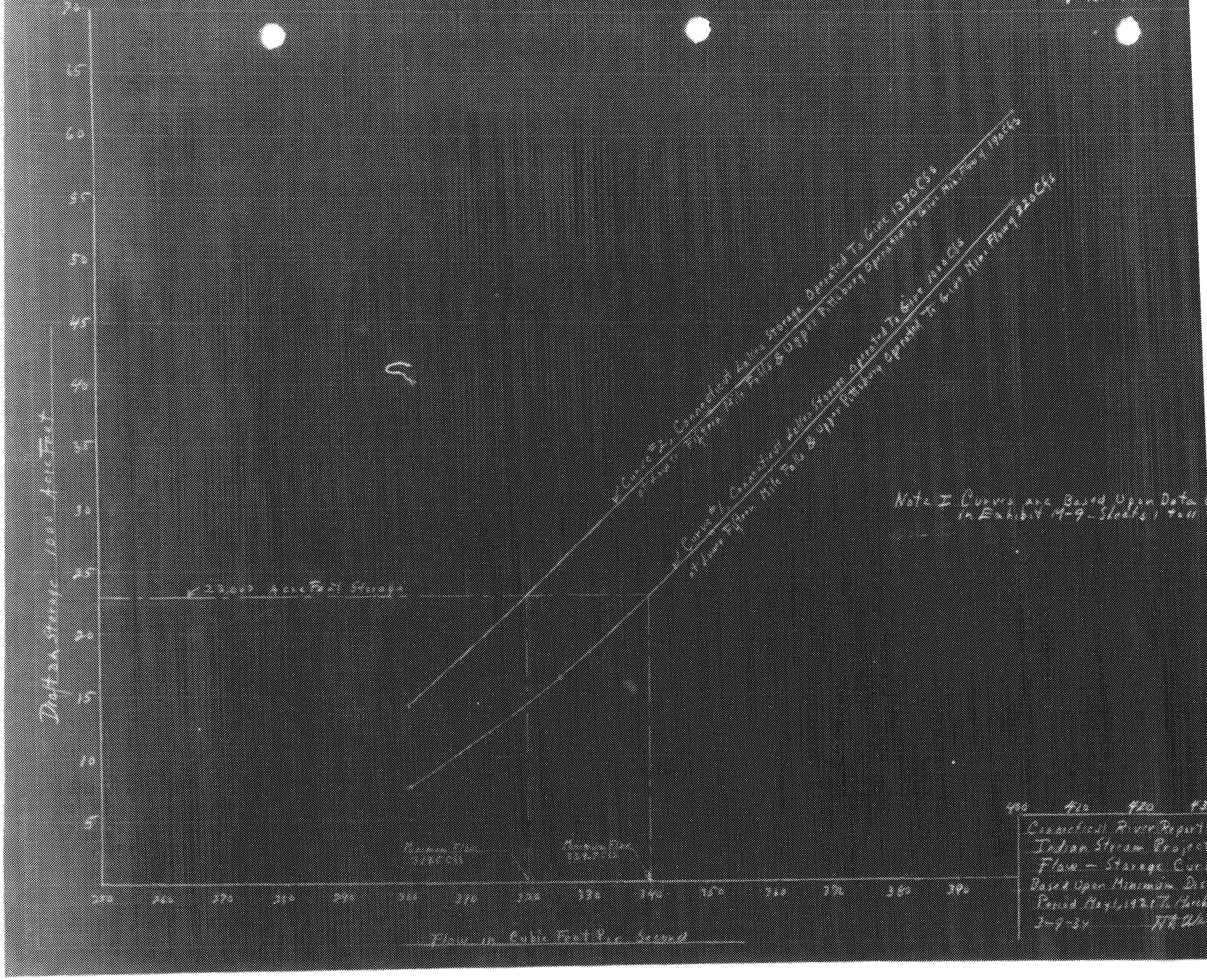


Exhibit M-
Note I Curves are Based Upon Data
in Exhibit M-9 - Sheets 1 to
Flow in Cubic Feet Per Second
Connecticut River Report
Indian Stream Project
Flow - Storage Curve
Based Upon Minimum Dis
Period May 1, 1921 To Nov
3-9-34

Fig 145

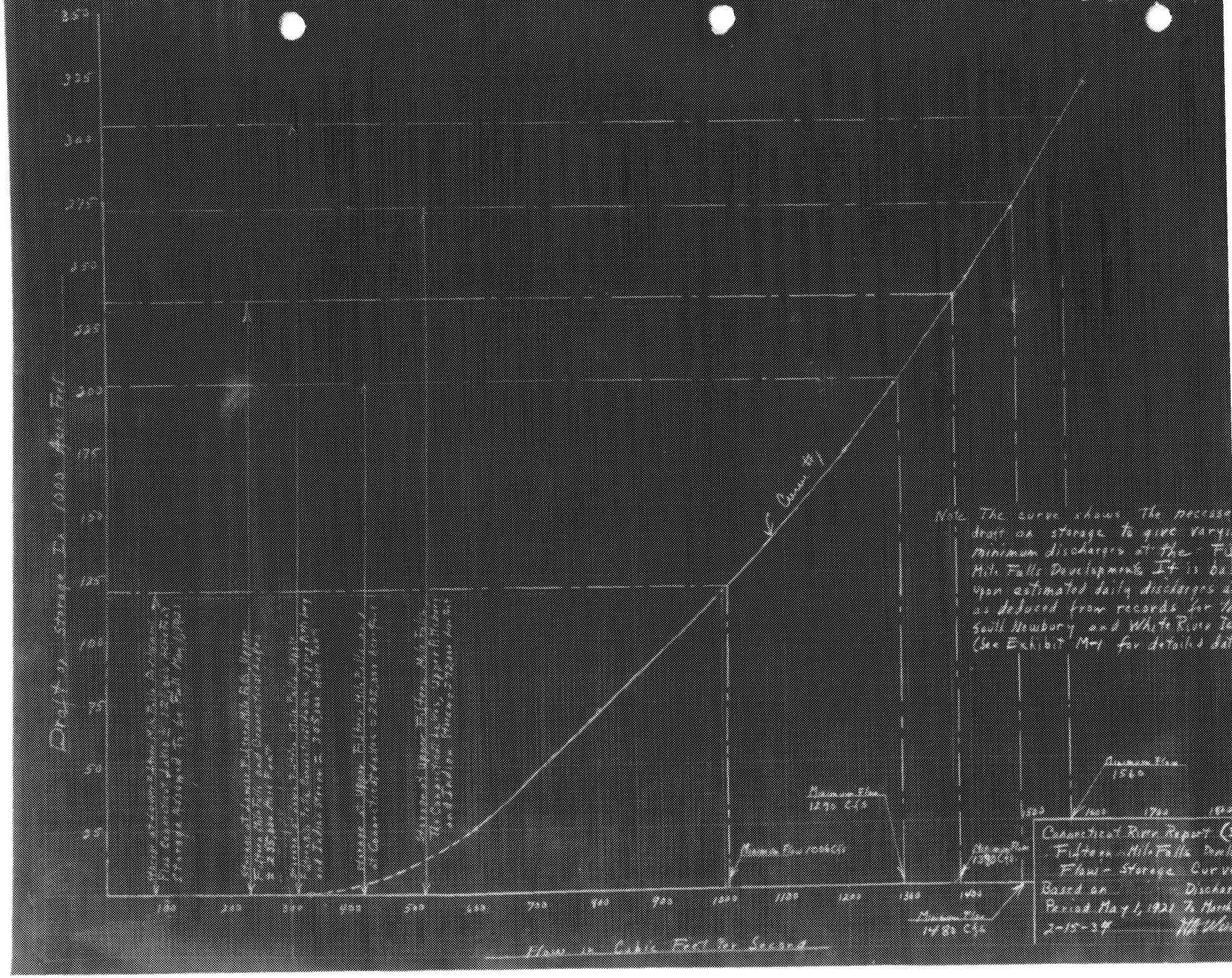


Exhibit M-
Drawn in Storage In 1000 Acre Feet
Flow in Cubic Feet Per Second
Minimum Flow 1560
Minimum Flow 1290 CFS
Minimum Flow 1480 CFS
Connecticut River Report
Flow - Storage Curve
Based on
Period May 1, 1921
2-15-34

Fig 197

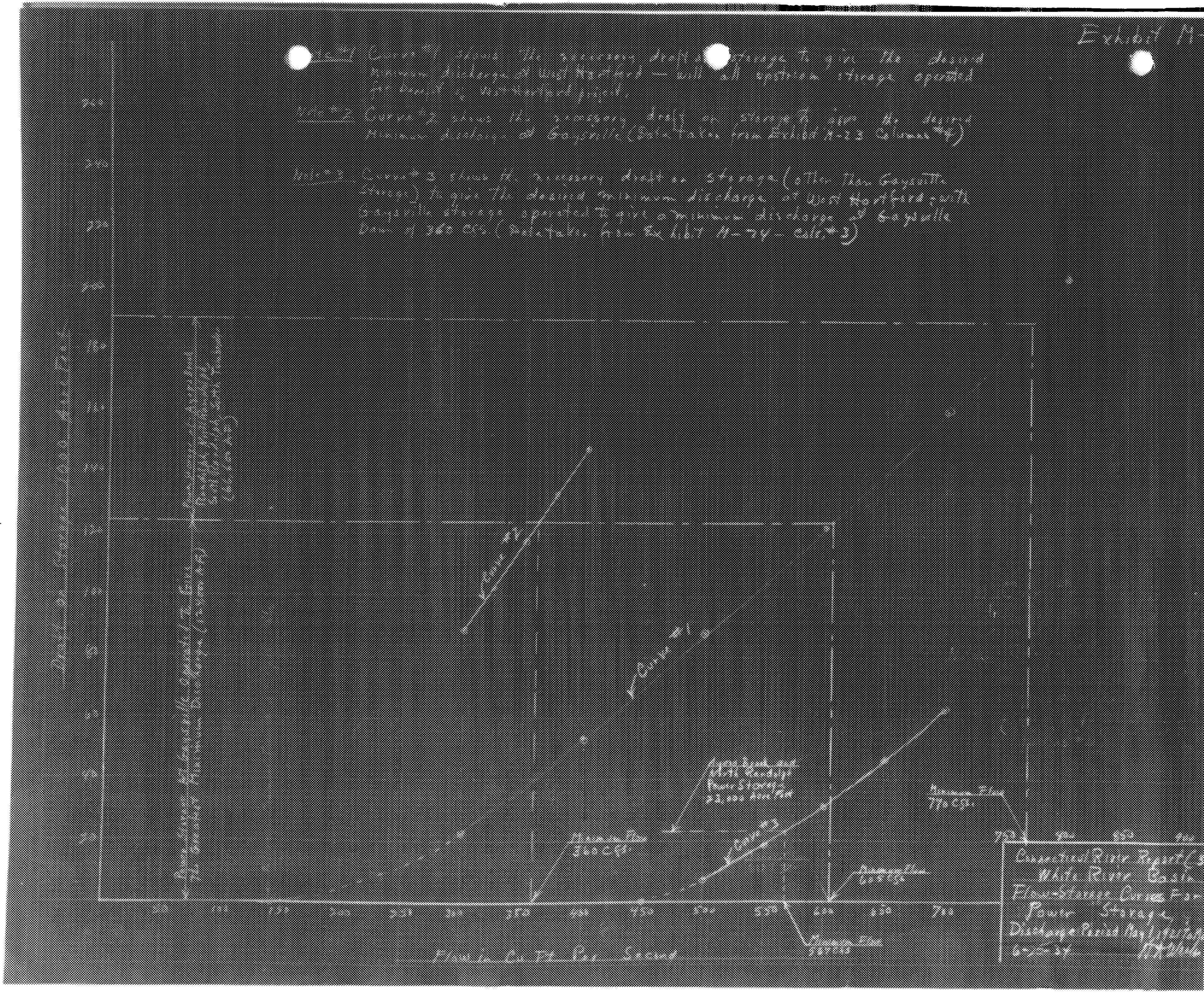


Exhibit M-
Note #1 Curve #1 shows the necessary draft on storage to give the desired minimum discharge at West Hartford — with all upstream storage operated for benefit of West Hartford project.
Note #2 Curve 2 shows the necessary draft on storage to give the desired minimum discharge at Gaysville (Data taken from Exhibit M-23 Column #4)
Note #3 Curve #3 shows the necessary draft on storage (other than Gaysville storage) to give the desired minimum discharge at West Hartford with Gaysville storage operated to give a minimum discharge at Gaysville Dam of 360 cfs (Data taken from Exhibit M-24 – Col. #3)
Curve #1
Curve #2
Curve #3
Minimum Flow 360 CFS
Minimum Flow 770 CFS
Flow in Cu. Ft. Per Second
Connecticut River Report
White River Basin
Flow-Storage Curves For
Power Storage
Discharge Period

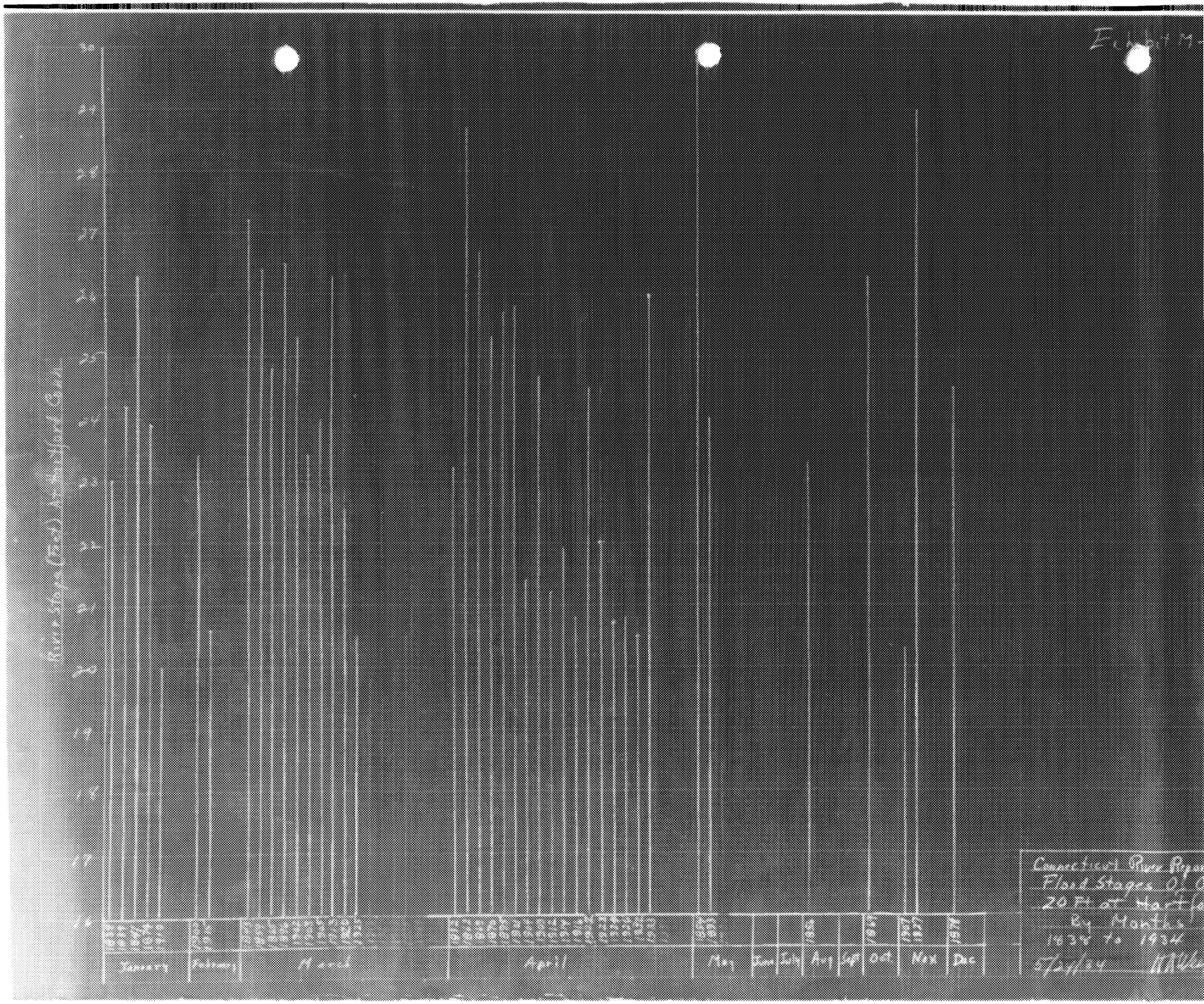
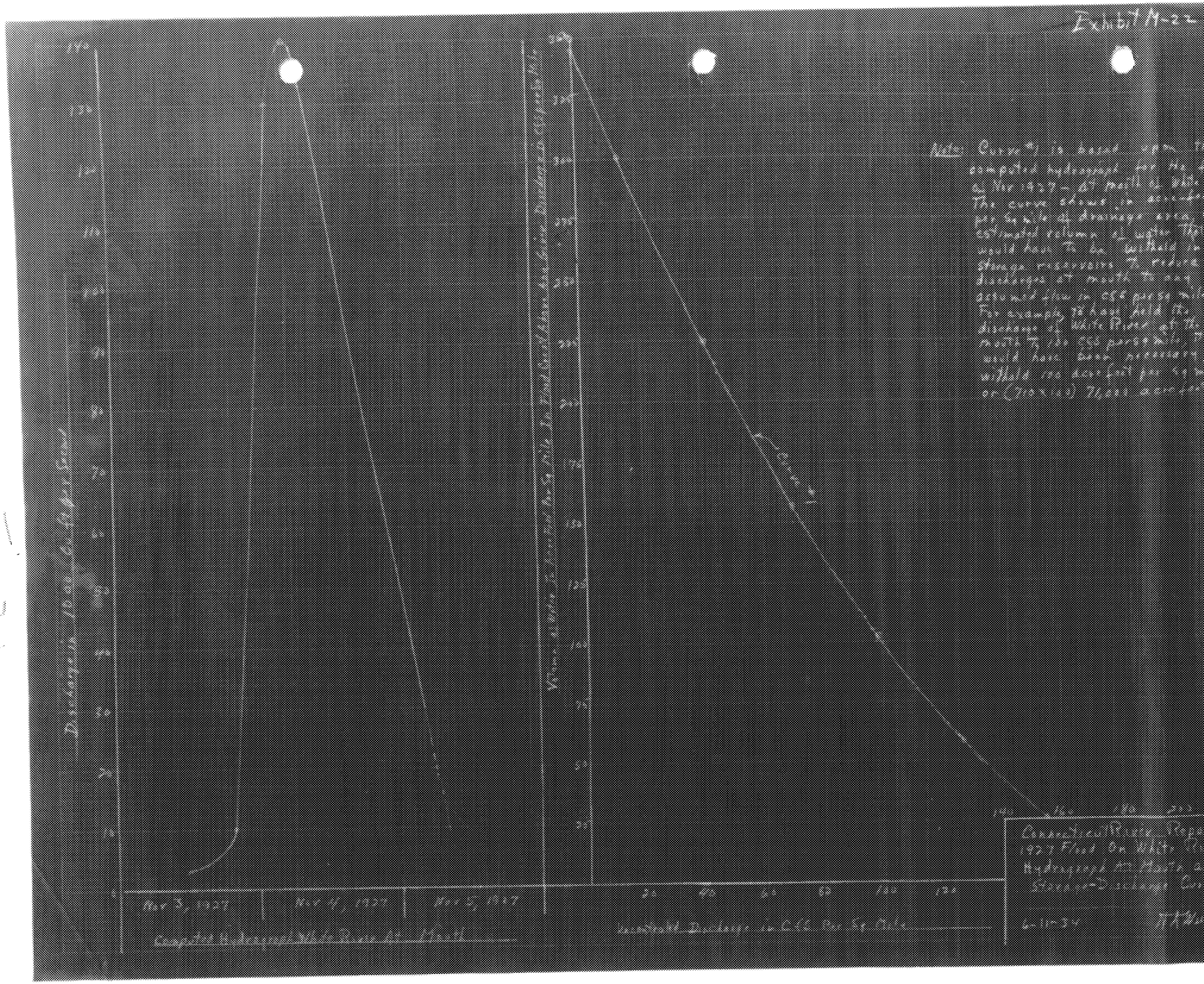
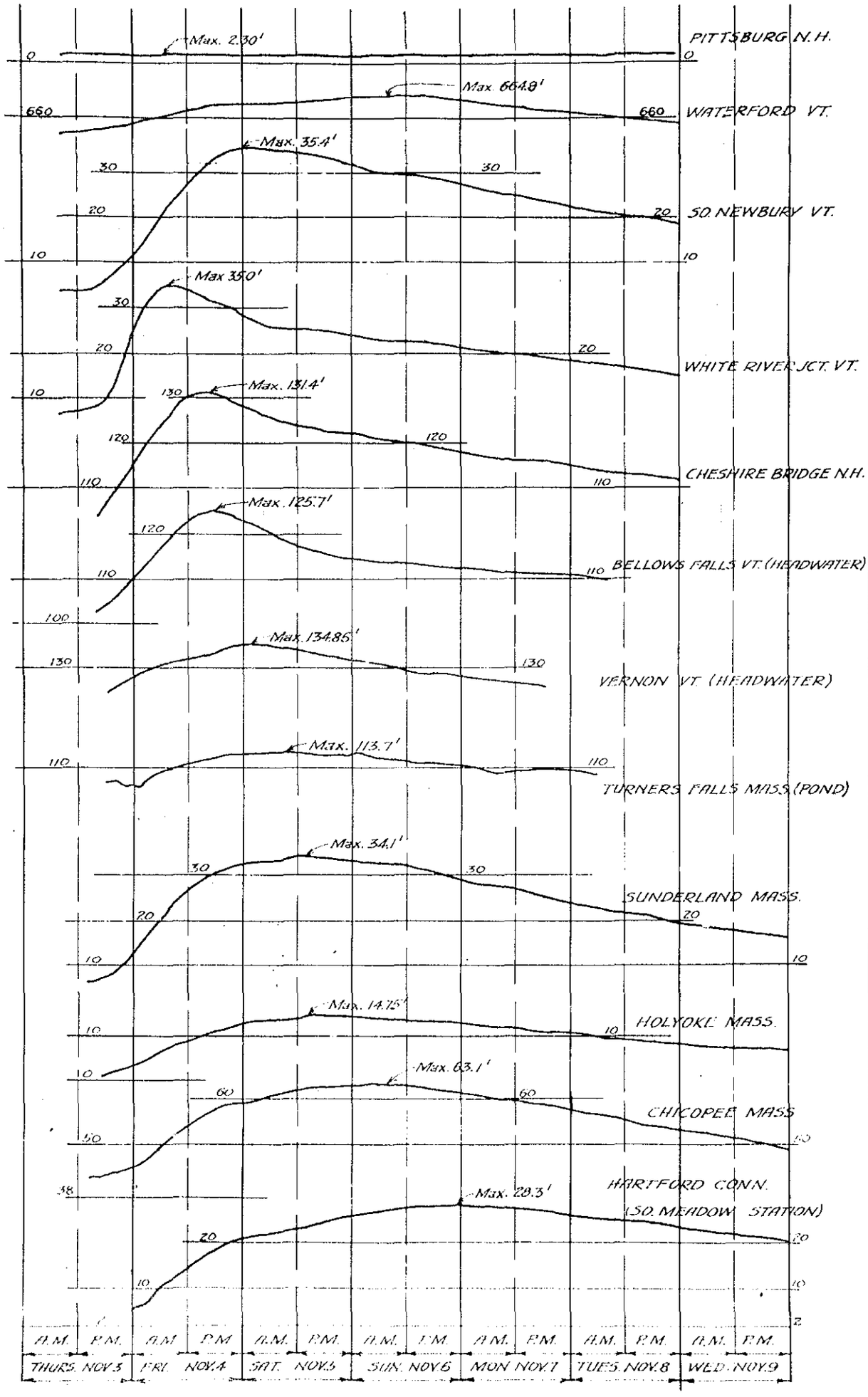

Connecticut River Repor
Flood Stages Of
20 Ft at Hartf
By Months
1838 to 1934
January
February
March
April
May
June
July
Aug
Sept
Oct
Nov
Dec

Exhibit M-3

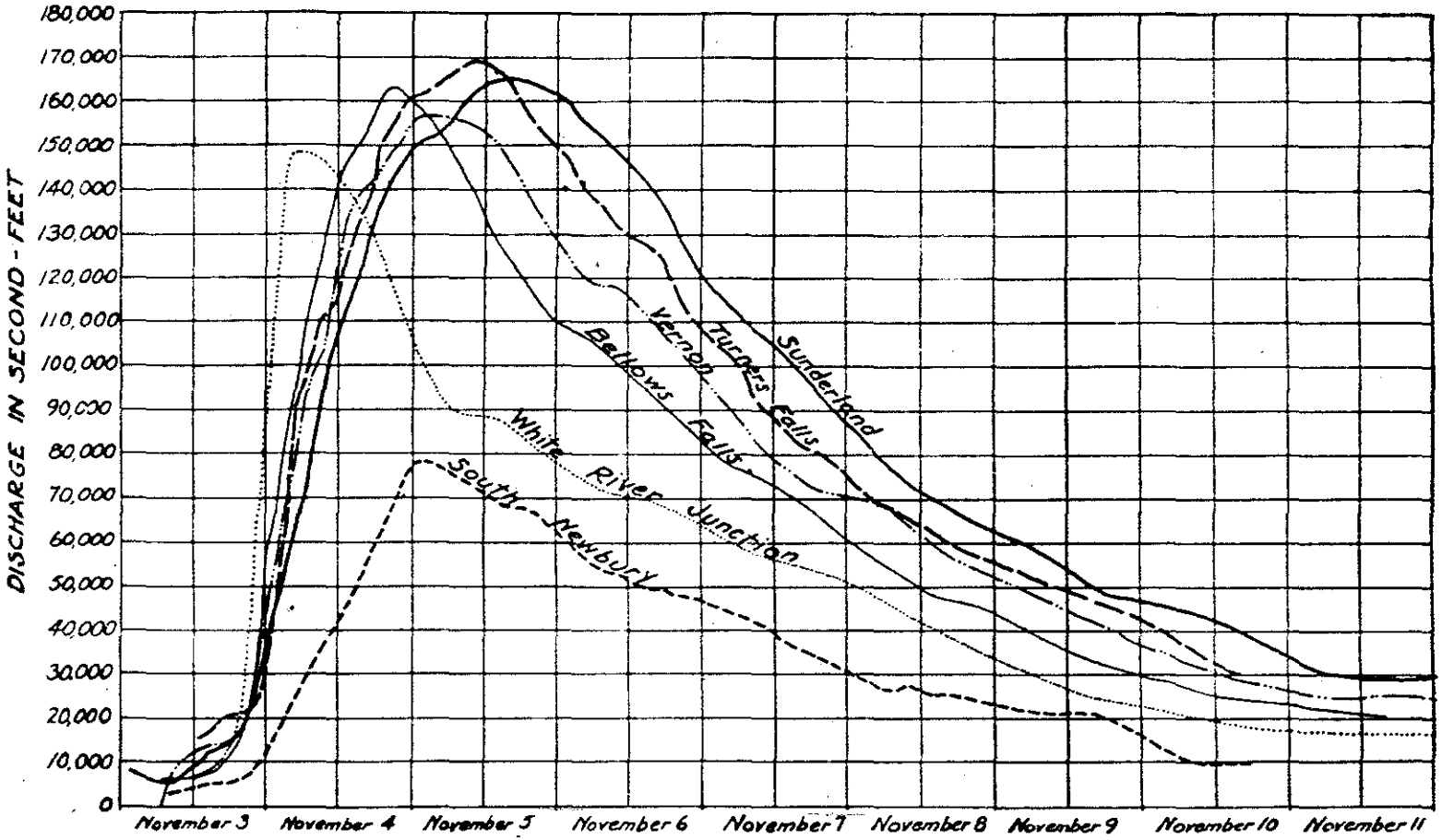

Note: Curve "A" is based on
Curve "B"
Curve "C"
Curve "D"
Curve "E"
Curve "F"
Curve "G"
Curve "H"
Curve "I"
Curve "J"
Curve "K"
Curve "L"
Curve "M"
Curve "N"
Curve "O"
Curve "P"
Curve "Q"
Curve "R"
Curve "S"
Curve "T"
Curve "U"
Curve "V"
Curve "W"
Curve "X"
Curve "Y"
Curve "Z"
Curve "AA"
Curve "BB"
Curve "CC"
Curve "DD"
Curve "EE"
Curve "FF"
Curve "GG"
Curve "HH"
Curve "II"
Curve "JJ"
Curve "KK"
Curve "LL"
Curve "MM"
Curve "NN"
Curve "OO"
Curve "PP"
Curve "QQ"
Curve "RR"
Curve "SS"
Curve "TT"
Curve "UU"
Curve "VV"
Curve "WW"
Curve "XX"
Curve "YY"
Curve "ZZ"
Curve "AAA"
Curve "BBB"
Curve "CCC"
Curve "DDD"
Curve "EEE"
Curve "FFF"
Curve "GGG"
Curve "HHH"
Curve "III"
Curve "JJJ"
Curve "KKK"
Curve "LLL"
Curve "MMM"
Curve "NNN"
Curve "OOO"
Curve "PPP"
Curve "QQQ"
Curve "RRR"
Curve "SSS"
Curve "TTT"
Curve "UUU"
Curve "VVV"
Curve "WWW"
Curve "XXX"
Curve "YYY"
Curve "ZZZ"
Curve "AAAA"
Curve "BBBB"
Curve "CCCC"
Curve "DDDD"
Curve "EEEE"
Curve "FFFF"
Curve "GGGG"
Curve "HHHH"
Curve "IIII"
Curve "JJJJ"
Curve "KKKK"
Curve "LLLL"
Curve "MMMM"
Curve "NNNN"
Curve "OOOO"
Curve "PPPP"
Curve "QQQQ"
Curve "RRRR"
Curve "SSSS"
Curve "TTTT"
Curve "UUUU"
Curve "VVVV"
Curve "WWWW"
Curve "XXXX"
Curve "YYYY"
Curve "ZZZZ"
Curve "AAAAA"
Curve "BBBBB"
Curve "CCCCC"
Curve "DDDDD"
Curve "EEEEE"
Curve "FFFFF"
Curve "GGGGG"
Curve "HHHHH"
Curve "IIIII"
Curve "JJJJJ"
Curve "KKKKK"
Curve "LLLLL"
Curve "MMMMM"
Curve "NNNNN"
Curve "OOOOO"
Curve "PPPPP"
Curve "QQQQQ"
Curve "RRRRR"
Curve "SSSSS"
Curve "TTTTT"
Curve "UUUUU"
Curve "VVVVV"
Curve "WWWWW"
Curve "XXXXX"
Curve "YYYYY"
Curve "ZZZZZ"
Curve "AAAAAA"
Curve "BBBBBB"
Curve "CCCCCC"
Curve "DDDDDD"
Curve "EEEEEE"
Curve "FFFFFF"
Curve "GGGGGG"
Curve "HHHHHH"
Curve "IIIIII"
Curve "JJJJJJ"
Curve "KKKKKK"
Curve "LLLLLL"
Curve "MMMMMM"
Curve "NNNNNN"
Curve "OOOOOO"
Curve "PPPPPP"
Curve "QQQQQQ"
Curve "RRRRRR"
Curve "SSSSSS"
Curve "TTTTTT"
Curve "UUUUUU"
Curve "VVVVVV"
Curve "WWWWWW"
Curve "XXXXXX"
Curve "YYYYYY"
Curve "ZZZZZZ"



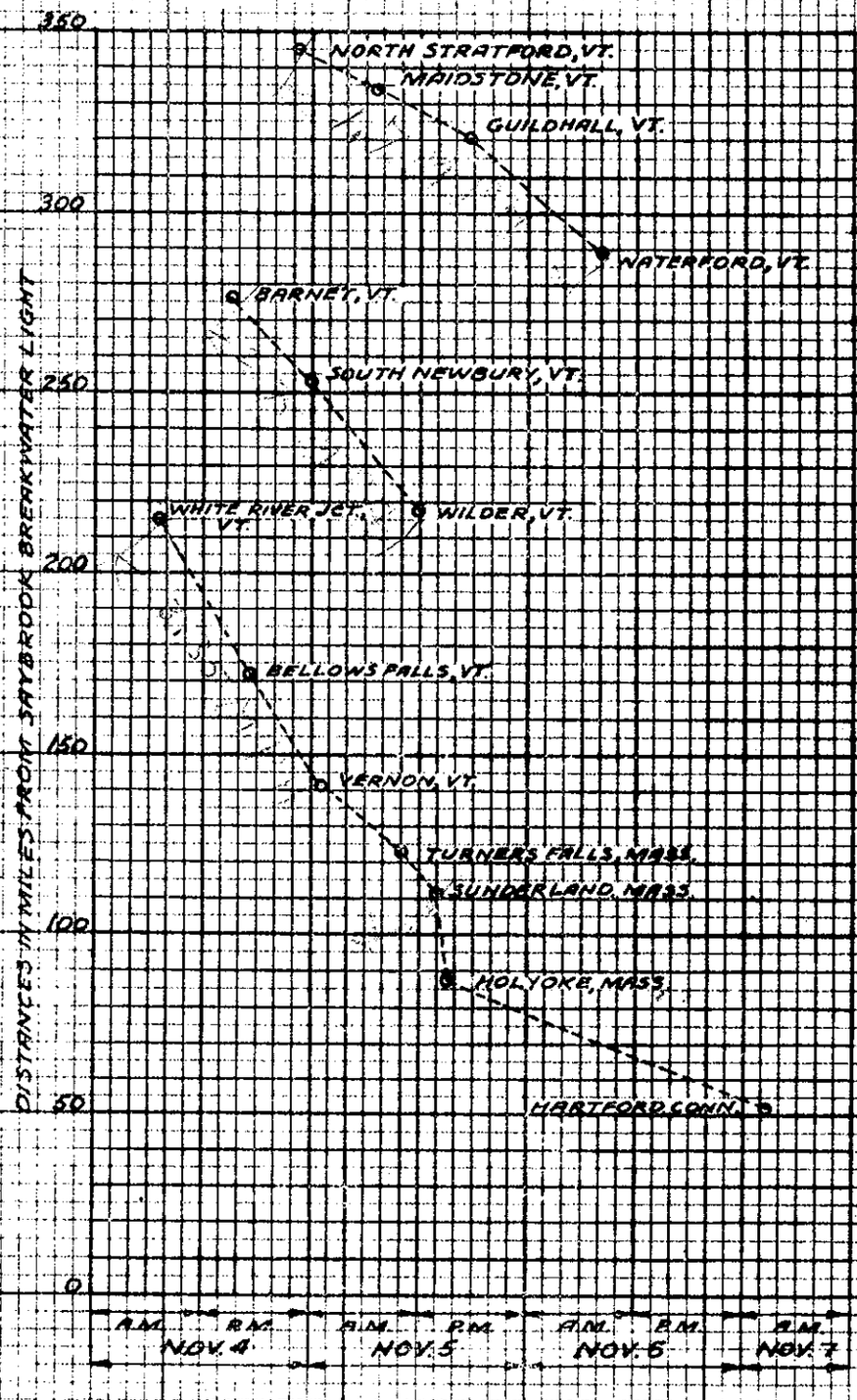
GRAPHS OF GAGE HEIGHTS ON CONNECTICUT RIVER DURING FLOOD OF NOVEMBER 1927

HEIGHTS ARE REFERENCED TO THE VARIOUS LOCAL DATUMS

FIGURE 6



HYDROGRAPHS OF DISCHARGE AT POINTS ON THE CONNECTICUT RIVER DURING FLOOD OF NOVEMBER, 1927



CONNECTICUT RIVER
GRAPHS SHOWING TIME OF
FLOOD PEAKS DURING FLOOD OF
NOVEMBER, 1927

FIGURE # 203

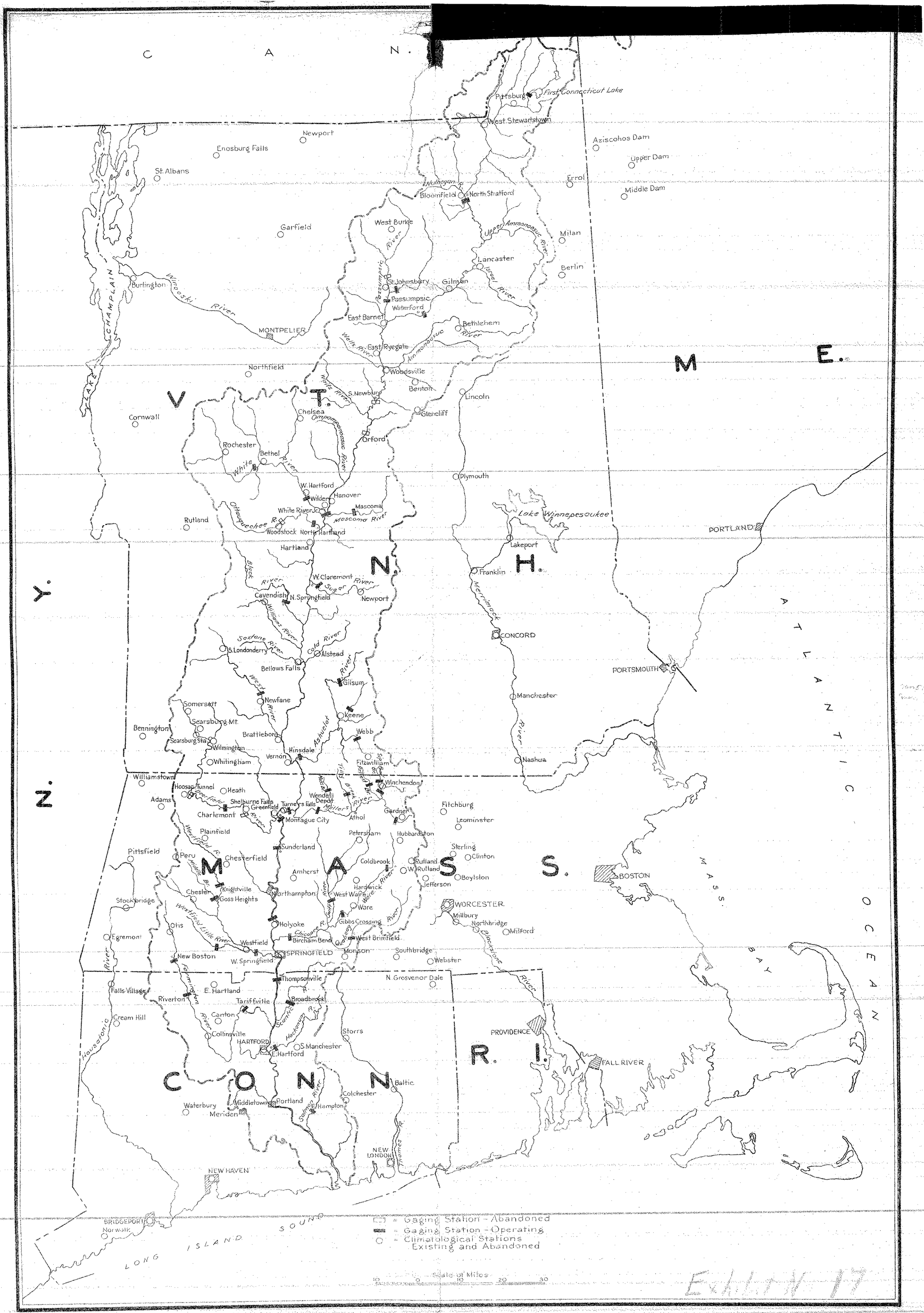


Exhibit 17

Figure No. 204