

**FLOW-DURATION DATA
FOR
MISSOURI STREAMS**

By Leland D. Hauth

U.S. GEOLOGICAL SURVEY

Open-File Report 81-1189

Prepared in cooperation with
MISSOURI DEPARTMENT OF NATURAL RESOURCES,
Division of Geology and Land Survey
and
Division of Environmental Quality

Rolla, Missouri

1982



UNITED STATES DEPARTMENT OF THE INTERIOR

JAMES G. WATT, Secretary

GEOLOGICAL SURVEY

Dallas L. Peck, Director

For additional information write to:

District Chief

U.S. Geological Survey, Water Resources Division

1400 Independence Road Mail Stop 200

Rolla, Missouri 65401

CONTENTS

Abstract-----	1
Introduction-----	1
Development of flow-duration data-----	1
Use of data-----	1

ILLUSTRATIONS

Figure 1. Map showing streamflow-gaging stations where daily flow-duration data have been developed-----	3
2. Daily flow-duration hydrographs for streamflow-gaging stations having continuous stage discharge record-----	26

METRIC CONVERSION FACTORS

For readers who prefer the International System of units (SI), the conversion factors for the terms used in this report are:

<u>Multiply inch-pound units</u>	<u>By</u>	<u>To obtain SI units</u>
inch	2.540	centimeter
foot	0.305	meter
mile	1.609	kilometer
square mile	2.590	square kilometer
cubic foot per second	0.028	cubic meter per second
cubic foot per second per square mile	0.011	cubic meter per second per square kilometer

NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD OF 1929):

A geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level."

TABLE

Table 1. Streamflow-gaging stations where daily flow-duration data have been developed-----	4
---	---

FLOW-DURATION DATA FOR MISSOURI STREAMS

By Leland D. Hauth

USE OF DATA

Flow-duration data are presented in this report in graphical form so the user can see the trend and time of year of low and high streamflow for a given record length at specific locations. When the desired period and percentage of time of exceedance are determined, specific flow magnitude can be obtained from the given hydrograph (see fig. 1).

As record length is increased, the reliability of any statistical computation is increased. Length of record used in the analysis is shown to indicate data reliability. The length-of-record categories (9, 19, 29, 39, and 49 years) do not necessarily include the same water years, but rather the available record was used. However, when possible, the time period concludes with 1979.

Data presented in this report are not to be confused with low-flow frequency data. However, because the lowest value presented for any day is the 1-day lowest mean discharge, it is the 1-day minimum discharge at the 100 percent exceedance level. That is, it is the lowest daily flow measured at the streamflow-gaging station.

The semilog hydrograph plots are restricted to five log cycles and cannot always cover the range of flow magnitudes. As a result, all high and low extremes may not be shown on the plots. Tabulated data used to plot these hydrographs are too voluminous to be included in this report. These data are on file at the U.S. Geological Survey, Polla, Mo., and can be made available on a specific station basis.

Streamflow-gaging station data are arranged according to downstream order number (table 1). To obtain daily flow-duration data for a given streamflow-gaging station, determine the map number of the station from figure 1. Using the map number column in table 1, locate the station name, order number, specific location, and length of record used to compute flow-duration values.

Locate the selected downstream order number and station name (fig. 2) to obtain hydrograph data. Five data graphs are shown on each station hydrograph, representing low or 100-, 80-, 50-, 20-, and high or zero percent exceedance. The 100 percent exceedance hydrographs are the lowest graphs at the bottom of the page, and the hydrographs representing the zero percent exceedance are at the top of the page. For example, the daily discharge having a 50 percent chance of being exceeded at the streamflow-gaging station, Fox River at Wayland (downstream order number 05495000), for November 15, based on the period of record, is about 18 cubic feet per second.

ABSTRACT

Flow-duration data have been developed at 175 streamflow-gaging stations in Missouri that have at least 9 years of record. The flow duration is determined on a daily basis for the period of record and presented as hydrographs. The computation periods are 9, 19, 29, 39, or 49 years, depending on the length of continuous-streamflow records at each station.

INTRODUCTION

Records of daily streamflow have been collected at streamflow-gaging stations throughout Missouri for many years. More than 5,547 station years of data are available for analysis. This report provides daily flow-duration data for 175 streamflow-gaging stations in Missouri.

Hydrographs were developed from flow-duration computations for each day of the water year (October 1 to September 30) for the period of record and indicate the percentage of time various given flow rates have been exceeded. The location and distribution of these sites are shown in figure 1, and table 1 lists the sites in downstream order (see "Station number" column) to indicate their position with respect to each other in the basins.

DEVELOPMENT OF FLOW-DURATION DATA

Flow-duration data are developed by arraying in order and magnitude the average discharges for each day of each month for the entire period of record and computing the percentage of time the various rates of discharge are exceeded (Searcy, 1959¹). The process is repeated until an entire year of daily-duration data have been computed.

¹Searcy, J. K., 1959, Flow-duration curves: U.S. Geological Survey Water-Supply Paper 1542-A, 33 p.

To obtain flow-duration data having exceedance probabilities other than those shown, a plot can be made of those values provided in the graphs for a specific day on log-probability paper and a smooth curve drawn through the points. Intermediate values can then be determined from the resulting curve.

Data provided in this report can be used in many applications. One use might include the development of a thermoelectric power plant, where during peak loads (July through September) power generation would require a given flow from a surface-water source for cooling. For example, a site might be selected at a location along the Nodaway River near Burlington Junction. The daily flow-duration hydrograph given in figure 2 for that location indicates that the lowest flow during the year occurs during July and August and can be as low as 1.1 cubic feet per second. The hydrograph also shows that at least 27 cubic feet per second has an 80 percent chance of being exceeded during that same period, which would allow a higher power output in many years.

Regression techniques were used to test the relation of basin characteristics to flow-duration data. However, for many streams the high incidence of zero-flow values through the midrange of exceedance probabilities caused excessive standard errors. The author has concluded that the transfer of flow-duration data to ungaged streams can be accomplished only by obtaining discharge data at ungaged sites and relating the data to concurrent information at long-time streamflow-gaging stations. Continuous-record streamflow data and other hydrologic information are available from the District Chief, U.S. Geological Survey, Rolla, Mo.

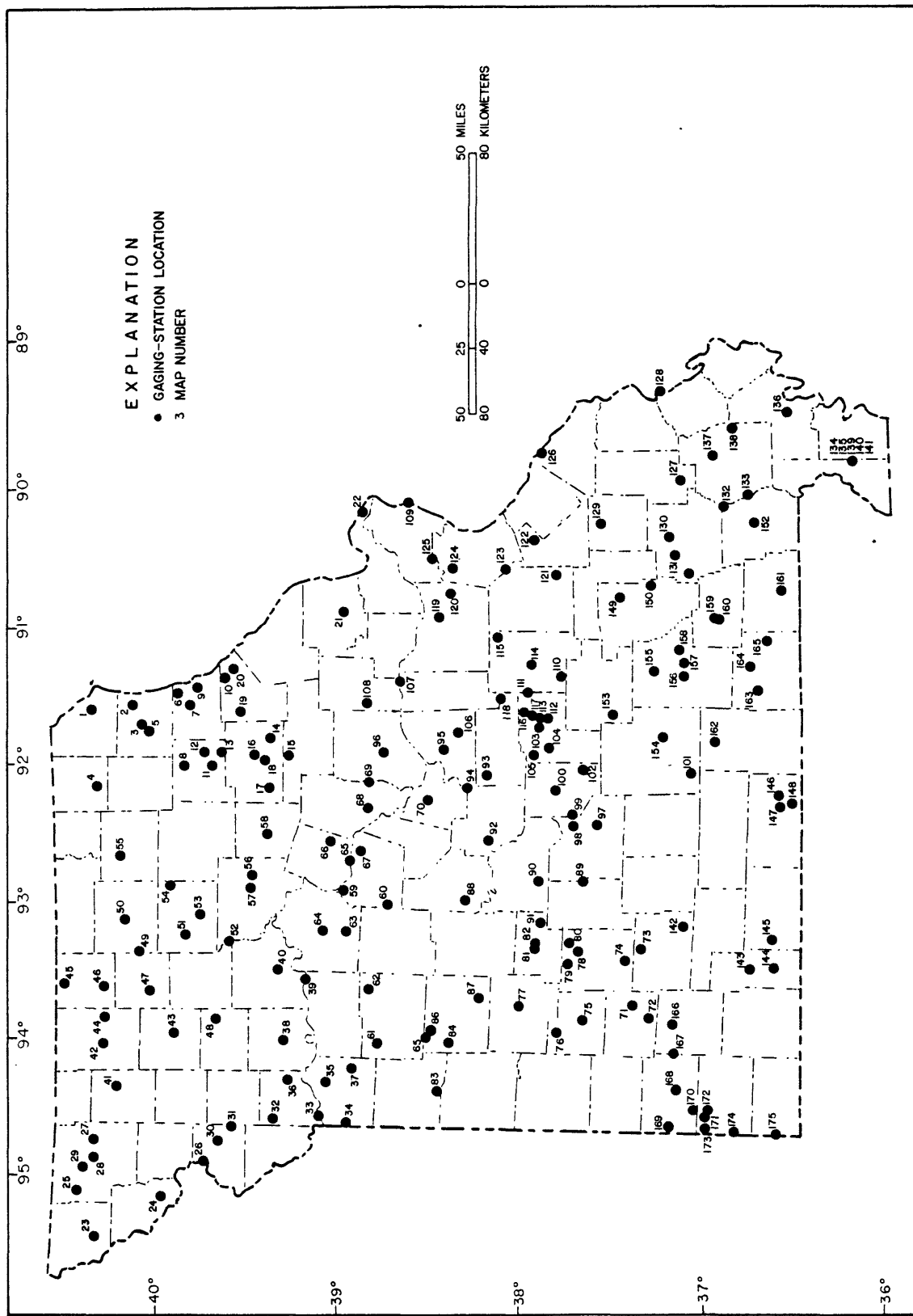


Figure 1.--Streamflow-gaging stations where daily flow-duration data have been developed.

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
05495000-----	1	Fox River at Wayland	Lat 40°23'45", long 91°35'40", in NW¼ sec. 31, T. 65 N., R. 6 W., at U.S. Highway 136, three-fourths mile west of Wayland, Clark County.	400	49
05496000-----	2	Wyaconda River above Canton	Lat 40°08'30", long 91°33'55", in SE¼ sec. 28, T. 62 N., R. 6 W., at State Highway 16, 2 miles west of Canton, Lewis County.	393	39
05497000-----	3	North Fabius River at Monticello	Lat 40°06'30", long 91°42'55", in SW¼SE¼ sec. 6, T. 61 N., R. 7 W., at U.S. Highway 16, 1 mile south of Monticello, Lewis County.	452	49
05497500-----	4	Middle Fabius River near Baring	Lat 40°19'55", long 92°12'50", in NW¼NW¼ sec. 26, T. 64 N., R. 12 W., at State Highway 15, 6 miles north of Baring, Scotland County.	185	19
05498000-----	5	Middle Fabius River near Monticello	Lat 40°05'37", long 91°44'08" in SE¼ sec. 12, T. 61 N., R. 8 W., at State Highway 16, 2.5 miles south-west of Monticello, Lewis County.	393	29
05498500-----	6	North Fabius River at Taylor	Lat 39°56'05", long 91°31'35", in NE¼SE¼ sec. 2, T. 59 N., R. 6 W., at U.S. Highway 61, at Taylor, Marion County.	930	9
05500000-----	7	South Fabius River near Taylor	Lat 39°53'50", long 91°34'50", in SW¼NW¼ sec. 21, T. 59 N., R. 6 W., at county highway bridge, 4.5 miles southwest of Taylor, Marion County.	620	39
05500500-----	8	North River at Bethel	Lat 39°52'29", long 92°01'26", in NE¼NW¼ sec. 33, T. 59 N., R. 10 W., at State Highway 15, at Bethel, Shelby County.	58.0	29
05501000-----	9	North River at Palmyra	Lat 39°49'06", long 91°31'13", in SE¼SW¼ sec. 13, T. 58 N., R. 6 W., 1,000 feet upstream from U.S. Highways 24 and 61, 5 miles north of Palmyra, Marion County.	373	39

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
05502000-----	10	Bear Creek at Hannibal	Lat 39°40'43", long 91°24'41", in SE¼NW¼ sec. 1, T. 56 N., R. 5 W., 42 feet upstream from U.S. Highway 61 at Hannibal, Ralls County.	31.0	29
05502500-----	11	Salt River near Shelbyna	Lat 39°44'25", long 92°02'26", in SW¼NE¼ sec. 17, T. 57 N., R. 10 W., at State Highway 15, 3 miles north of Shelbyna, Shelby County.	481	39
05503000-----	12	Oak Dale Branch near Emden	Lat 39°45'30", long 91°55'00", in NW¼ sec. 9, T. 57 N., R. 9 W., at county highway, 4 miles southwest of Emden, Shelby County.	2.69	19
05503500-----	13	Salt River near Hunnewell	Lat 39°40'05", long 91°54'10", in SW¼NW¼ sec. 10, T. 56 N., R. 9 W., at U.S. Highway 36, 2 miles west of Hunnewell, Shelby County.	626	9
05505000-----	14	South Fork Salt River at Santa Fe	Lat 39°21'45", long 91°49'05", in NW¼NE¼ sec. 20, T. 53 N., R. 8 W., at county road, 0.3 mile south of Santa Fe, Monroe County.	298	19
05506000-----	15	Youngs Creek near Mexico	Lat 39°18'40", long 91°56'40", in NW¼SW¼ sec. 5, T. 52 N., R. 9 W., at State Highway 15, 11 miles north of Mexico, Audrain County.	67.4	29
05506500-----	16	Middle Fork Salt River at Paris	Lat 39°29'00", long 91°59'50", in SW¼SW¼ sec. 2, T. 54 N., R. 10 W., at Wabash Railroad bridge at Paris, Monroe County.	356	39
05506800-----	17	Elk Fork Salt River near Madison	Lat 39°26'05", long 92°10'04", in SW¼NE¼SW¼ sec. 29, T. 54 N., R. 11 W., at State Highway AA, 3.5 miles southeast of Madison, Monroe County.	200	9
05507000-----	18	Elk Fork Salt River near Paris	Lat 39°26'25", long 92°00'05", in SE¼SE¼ sec. 22, T. 54 N., R. 10 W., at State Highway 15, 2.5 miles south of Paris, Monroe County.	262	19

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
05507500-----	19	Salt River near Monroe City	Lat 39°52'25", long 91°40'20", in NE¼NW¼ sec. 22, T. 55 N., R. 7 W., 135 feet upstream from county highway bridge at Joanna, 8.0 miles southeast of Monroe City, Ralls County.	2,230	29
05508000-----	20	Salt River near New London	Lat 39°36'44", long 91°24'30", in NE¼NW¼ sec. 36, T. 56 N., R. 5 W., 180 feet upstream from U.S. Highway 61, 2 miles north of New London, Ralls County.	2,480	49
05514500-----	21	Cuivre River near Troy	Lat 39°00'59", long 90°59'00", in SE¼ sec. 14, T. 49 N., R. 1 W., at U.S. Highway 61, 2 miles west of Troy, Lincoln County.	903	49
05587500-----	22	Mississippi River at Alton, Ill.	Lat 38°53'06", long 90°10'51", in sec. 14, T. 5 N., R. 10 W., at Lock and Dam 26 at Alton, Madison County.	171,500	39
06813000-----	23	Tarkio River at Fairfax	Lat 40°20'20", long 95°24'20", in SW¼SW¼ sec. 22, T. 64 N., R. 40 W., at Highway J, 0.3 mile west of Fairfax, Atchison County.	508	49
06816000-----	24	Mill Creek at Oregon	Lat 39°58'55", long 95°07'35", in NE¼NE¼ sec. 35, T. 60 N., R. 38 W., 15 feet downstream from U.S. Highway 275, 1 mile southeast of Oregon, Holt County.	4.90	19
06817500-----	25	Nodaway R. nr Burlington Junction	Lat 40°26'40", long 95°05'20", in NW¼ sec. 17, T. 65 N., R. 37 W., on State Highway 4, 1½ miles west of Burlington Junction, Nodaway County.	1,240	49
06818000-----	26	Missouri River at St. Joseph	Lat 39°45'10", long 94°51'28", sec. 17 T. 57 N., R. 35 W., on St. Joseph and Grand Island Railroad bridge in St. Joseph, Buchanan County.	424,300	49

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06818900-----	27	Platte River at Ravenwood	Lat 40°20'42", long 94°41'10", in SE¼SE¼ sec. 14, T. 64 N., R. 34 W., at Missouri State Highways 4 and 46, 0.8 mile west of Ravenwood, Nodaway County.	486	9
06819500-----	28	One Hundred and Two River at Maryville	Lat 40°23'15", long 94°49'35", in SE¼SW¼ sec. 34, T. 65 N., R. 35 W., on county highway bridge, 2.5 miles northeast of Maryville, Nodaway County.	500	29
06820000-----	29	White Cloud Creek nr Maryville	Lat 40°23'22", long 94°54'33", in NW¼NW¼ sec. 1, T. 64 N., R. 36 W., at U.S. Highway 71, 4.5 miles northwest of Maryville, Nodaway County.	6.06	19
06820500-----	30	Platte River near Agency	Lat 39°41'19", long 94°42'10", in NE¼NW¼ sec. 10, T. 56 N., R. 34 W., 10 feet downstream from U.S. Highway 169, 3.5 miles northeast of Agency, Buchanan County.	1,760	39
06821000-----	31	Jenkins Branch at Gower	Lat 39°37'29", long 94°36'01", in SW¼NW¼ sec. 34, T. 56 N., R. 33 W., at U.S. Highway 169, 0.8 mile north of Gower, Clinton County.	2.72	19
06821150-----	32	Little Platte River at Smithville	Lat 39°23'17", long 94°34'44", in N¼SW¼ sec. 23, T. 53 N., R. 33 W., 1,500 feet upstream from U.S. Highway 169 at Smithville, Clay County.	234	9
06893000-----	33	Missouri River at Kansas City	Lat 39°06'43", long 94°35'16", in sec. 32, T. 50 N., R. 33 W., on Chicago-Burlington-Quincy Railroad bridge at Kansas City, Jackson County.	489,200	49
06893500-----	34	Blue River near Kansas City	Lat 38°57'26", long 94°33'31", in SE¼NE¼ sec. 28, T. 48 N., R. 33 W., at Bannister Road bridge at Kansas City, Jackson County.	188	39
06894000-----	35	Little Blue River nr Lake City	Lat 39°06'02", long 94°18'01", in SW¼SE¼ sec. 35, T. 50 N., R. 31 W., at U.S. Highway 78, 3.0 miles southwest of Lake City, Jackson County.	184	19

Table 1.---Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06894500-----	36	East Fork Fishing River at Excelsior Springs	Lat 39°20'20", long 94°12'45", in SE¼ sec. 1, T. 52 N., R. 30 W., at Gulf Hill Bridge in Excelsior Springs, Clay County.	20.0	19
06894630-----	37	Sni-A-Bar Creek near Tarsney	Lat 38°56'28", long 94°10'05", in SW¼SW¼NW¼ sec. 30, T. 48 N., R. 29 W., at Colburn Road, 2.7 miles east of Tarsney, Jackson County.	29.1	9
06895000-----	38	Crooked River near Richmond	Lat 39°19'58", long 93°58'46", in NW¼ sec. 7, T. 52 N., R. 27 N., at Missouri State Highway 13, 4 miles north of Richmond, Ray County.	159	19
06895500-----	39	Missouri River at Waverly	Lat 39°17'51", long 93°30'57", in sec. 14, T. 51 N., R. 24 W., at U.S. Highway 65 bridge at Waverly, Lafayette County.	491,200	39
06896000-----	40	Wakenda Creek at Carrollton	Lat 39°20'48", long 93°29'44", in NE¼SE¼ sec. 5, T. 52 N., R. 23 W., at U.S. Highway 65 at Carrollton, Carroll County.	248	19
06896500-----	41	Thompson Branch near Albany	Lat 40°12'50", long 94°19'55", in SE¼SE¼ sec. 36, T. 63 N., R. 31 W., at Missouri State Highway 85, 2 miles south of Albany, Gentry County.	5.58	9
06897000-----	42	East Fork Big Creek near Bethany	Lat 40°17'50", long 94°01'55", in SE¼ sec. 34, T. 64 N., R. 28 W., 50 feet downstream from U.S. Highway 69, 2 miles north of Bethany, Harrison County.	95.0	29
06897500-----	43	Grand River near Gallatin	Lat 39°55'35", long 93°56'35", in SW¼NW¼ sec. 16, T. 59 N., R. 27 W., at U.S. Highway 6, 1 mile northeast of Gallatin, Davies County.	2,250	49
06898100-----	44	Thompson River at Mount Moriah	Lat 40°20'10", long 93°46'05", on line between SE¼ sec. 13 and NE¼ sec. 24, T. 64 N., R. 26 W., at U.S. Highway 136, 1.5 miles northeast of Mt. Moriah, Harrison County.	891	9

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06898500-----	45	Weldon River near Mercer	Lat 40°32'56", long 93°36'10", in SW¼ sec. 3, T. 66 N., R. 24 W., at county highway bridge, 4½ miles northeast of Mercer, Mercer County.	246	19
06899900-----	46	Weldon River at Mill Grove	Lat 40°18'35", long 93°35'38", in SE¼SE¼ sec. 28, T. 64 N., R. 24 W., at county highway bridge in Mill Grove, Mercer County.	494	39
06899500-----	47	Thompson River at Trenton	Lat 40°04'45", long 93°38'35", in SW¼ sec. 18, T. 61 N., R. 24 W., at Missouri State Highway 6, 1 mile west of Trenton, Grundy County.	1,670	49
06899700-----	48	Shoal Creek near Braymer	Lat 39°40'05", long 93°46'05", in NW¼NE¼ sec. 13, T. 56 N., R. 26 W., at County Road 0, 6 miles north of Braymer, Caldwell County.	391	19
06900000-----	49	Medicine Creek near Galt	Lat 40°07'45", long 93°21'45", in SW¼NW¼ sec. 34, T. 62 N., R. 22 W., at Missouri State Highway 6, 1¼ miles east of Galt, Sullivan County.	225	39
06901000-----	50	Locust Creek near Milan	Lat 40°11'00", long 93°10'10", in SW¼ sec. 8, T. 62 N., R. 20 W., at county highway bridge, 3.5 miles southwest of Milan, Sullivan County.	225	9
06901500-----	51	Locust Creek near Linneus	Lat 39°53'45", long 93°14'10", in NW¼NE¼ sec. 34, T. 59 N., R. 21 W., 25 feet downstream from county highway bridge, 2 miles northeast of Linneus, Linn County.	550	39
06902000-----	52	Grand River near Sumner	Lat 39°38'25", long 93°16'25", in NE¼ sec. 29, T. 56 N., R. 21 W., at County Highway E, 2 miles southeast of Sumner, Livingston County.	6,880	39

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06902200-----	53	West Yellow Creek near Brookfield	Lat 39°50'40", long 93°01'36", in SE¼NE¼ sec. 16, T. 58 N., R. 19 W., at county highway bridge, 3.5 miles northeast of Brookfield, Linn County.	135	9
06902500-----	54	Hamilton Branch near New Boston	Lat 39°57'08", long 92°54'08", in SE¼SW¼ sec. 3, T. 59 N., R. 18 W., at Missouri State Highway 11, 2.5 miles west of New Boston, Linn County.	2.51	9
06904500-----	55	Chariton River at Novinger	Lat 40°14'05", long 92°41'14", on south line SE¼NE¼ sec. 28, T. 63 N., R. 16 W., at Missouri State Highway 6, 0.6 mile east of Novinger, Adair County.	1,370	19
06905500-----	56	Chariton River near Prairie Hill	Lat 39°32'25", long 92°47'23", sec. 26, T. 55 N., R. 17 W., on Missouri State Highway 129, 3.2 miles northwest of Prairie Hill, Chariton County.	1,870	49
06906000-----	57	Mussel Fork near Musselfork	Lat 39°31'26", long 92°56'59", in SW¼SW¼SE¼ sec. 32, T. 55 N., R. 18 W., at Missouri State Highway 5, 4.5 miles southwest of Musselfork, Chariton County.	267	9
06906300-----	58	East Fork Little Chariton River near Huntsville	Lat 39°27'19", long 92°34'09", in NE¼NW¼NW¼ sec. 26, T. 54 N., R. 15 W., at County Road C, 1.5 miles northwest of Huntsville, Randolph County.	220	9
06906600-----	59	Burge Branch near Arrow Rock	Lat 39°02'43", long 92°56'35", in SW¼NE¼ sec. 1, T. 49 N., R. 19 W., at county road culvert, 1.5 miles south of Arrow Rock, Cooper County.	0.33	9
06907000-----	60	Lamine River at Clifton City	Lat 38°45'20", long 93°01'10", in NW¼ sec. 16, T. 46 N., R. 19 W., at county highway bridge, 300 feet upstream from Missouri-Kansas-Texas Railroad bridge, three-quarters mile east of Clifton City, Cooper County.	598	49

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06907500-----	61	South Fork Blackwater River near Elm	Lat 38°49'05", long 94°02'05", in SW¼SE¼ sec. 5, T. 46 N., R. 28 W., at county highway, 2.5 miles south-east of Elm, Johnson County.	16.4	19
06907700-----	62	Blackwater River at Valley City	Lat 38°52'10", long 93°37'15", in SW¼NW¼ sec. 13, T. 47 N., R. 25 W., at County Highway E, 0.5 mile north-west of Valley City, Johnson County.	547	9
06908000-----	63	Blackwater River at Blue Lick	Lat 38°59'30", long 93°12'15", on line between secs. 27 and 34, T. 49 N., R. 21 W., 25 feet upstream from U.S. Highway 65, 1 mile south of Blue Lick, Saline County.	1,120	39
06908500-----	64	Shiloh Branch near Marshall	Lat 39°07'00", long 93°05'50", in NW¼ sec. 15, T. 50 N., R. 20 W., at Missouri State Highway 41, 5.5 miles east of Marshall, Saline County.	2.87	9
06909000-----	65	Missouri River at Boonville	Lat 38°58'40", long 92°45'15", in sec. 35, T. 49 N., R. 17 W., at Missouri-Kansas-Texas Railroad bridge at Boonville, Cooper County.	505,700	49
06909500-----	66	Moniteau Creek near Fayette	Lat 39°07'15", long 92°33'40", in SE¼SE¼ sec. 14, T. 50 N., R. 15 W., at county highway bridge, one-fourth mile downstream from Hungry Mother Creek, 7½ miles east of Fayette, Howard County.	81.0	9
06910000-----	67	Petite Saline Creek near Boonville	Lat 38°55'00", long 92°39'20", in SW¼SE¼ sec. 15, T. 48 N., R. 16 W., 50 feet upstream from county highway bridge, 7 miles southeast of Boonville, Cooper County.	182	19
06910230-----	68	Hinkson Creek near Columbia	Lat 38°55'42", long 92°20'26", in NE¼NW¼SW¼ sec. 24, T. 48 N., R. 13 W., 400 feet downstream from Missouri State Highway 163, 0.5 mile south of Columbia, Boone County.	70.2	9

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06910410-----	69	Cedar Creek near Columbia	Lat 38°57'16", long 92°08'57", in NW¼SW¼ sec. 10, T. 48 N., R. 11 W., at access road to Interstate Highway 70, 9.5 miles east of Columbia, Boone County.	44.8	9
06910500-----	70	Moreau River near Jefferson City	Lat 38°31'44", long 92°11'31", in SW¼NW¼SE¼ sec. 28, T. 44 N., R. 11 W., at Tanner Bridge, 3 miles south of Jefferson City, Cole County.	561	9
06918440-----	71	Sac River near Dadeville	Lat 37°26'35", long 93°41'05", in NE¼NE¼NW¼ sec. 9, T. 31 N., R. 25 W., at Missouri State Highway 245, 2 miles south of Dadeville, Dade County.	257	9
06918460-----	72	Turnback Creek above Greenfield	Lat 37°24'09", long 93°48'06", on line between secs. 21 and 28, T. 31 N., R. 26 W., at County Road 0, 2 miles southeast of Greenfield, Dade County.	252	9
06918700-----	73	Oak Grove Branch near Brighton	Lat 37°24'11", long 93°21'21", in SE¼SW¼ sec. 21, T. 31 N., R. 22 W., at County Highway BB, 4 miles south of Brighton, Greene County.	1.30	19
06918740-----	74	Little Sac River nr Morrisville	Lat 37°28'58", long 93°29'07" in SW¼SW¼ sec. 20, T. 32 N., R. 23 W., at Hamilton Bridge on Missouri State Highway 215, 3 miles west of Morrisville, Polk County.	237	9
06919000-----	75	Sac River near Stockton	Lat 37°42'03", long 93°45'20", in SW¼NW¼ sec. 11, T. 34 N., R. 26 W., 20 feet upstream from Missouri State Highway 32, 2 miles east of Stockton, Cedar County.	1,160	49

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06919500-----	76	Cedar Creek near Pleasant View	Lat 37°50'03", long 93°52'31", in NE¼ sec. 2, T. 35 N., R. 27 W., at Missouri State Highway 39, 1.5 miles north of Pleasant View, Cedar County.	420	29
06920500-----	77	Osage River at Osceola	Lat 38°03'44" long 93°41'37", in NE¼NE¼ sec. 17, T. 38 N., R. 25 W., 1 mile downstream from Missouri Public Service Co. hydroelectric power plant, and 1 mile northeast of Osceola, St. Clair County.	8,220	39
06921000-----	78	Pomme de Terre River nr Bolivar	Lat 37°36'20", long 93°18'35", in N¼ sec. 11, T. 33 N., R. 22 W., at Missouri State Highway 64 in Burns, 5.5 miles east of Bolivar, Polk County.	225	19
06921070-----	79	Pomme de Terre River nr Polk	Lat 37°40'56", long 93°22'12", in NE¼NW¼NW¼ sec. 17, T. 34 N., R. 22 W., 150 feet upstream from Jefferson Bridge on State Highway D, 5.0 miles southwest of Polk, Polk County.	276	9
06921200-----	80	Lindley Creek near Polk	Lat 37°45'02", long 93°15'58", in NE¼SE¼ sec. 29, T. 35 N., R. 21 W., 2.5 miles northeast of Polk, Polk County.	112	19
06921350-----	81	Pomme de Terre River nr Hermitage	Lat 37°54'20", long 93°19'45", in NW¼NW¼ sec. 2, T. 36 N., R. 22 W., 2,000 feet downstream from Pomme de Terre Lake, 2.5 miles southwest of Hermitage, Hickory County.	615	19
06921500-----	82	Pomme de Terre River at Hermitage	Lat 37°56'45", long 93°18'35", in SE¼NE¼ sec. 23, T. 37 N., R. 22 W., at U.S. Highway 54, one-quarter mile east of Hermitage, Hickory County.	655	39

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

14

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06921590-----	83	South Grand River at Archie	Lat 38°28'44", long 94°20'03", in NW¼NW¼SE¼ sec. 34, T. 43 N., R. 31 W., 25 feet downstream from Missouri State Highway B, 0.9 mile east of Archie, Cass County.	256	9
06921600-----	84	South Grand River at Ulrich	Lat 38°27'08", long 94°00'13", in SE¼NW¼ sec. 10, T. 42 N., R. 28 W., at County Highway K, 0.5 mile south of Ulrich, Henry County.	670	9
06921720-----	85	Big Creek at Blairstown	Lat 38°33'17", long 93°57'54", in NE¼SW¼ sec. 36, T. 44 N., R. 28 W., at County Highway N, 0.3 mile west of Blairstown, Henry County.	414	9
06921740-----	86	Brushy Creek near Blairstown	Lat 38°31'42", long 94°00'37", in NE¼SE¼ sec. 9, T. 43 N., R. 28 W., at county highway, 3.5 miles southwest of Blairstown, Henry County.	1.15	9
06922000-----	87	South Grand River nr Brownington	Lat 38°15'45", long 93°42'50", in NW¼ sec. 17, T. 40 N., R. 25 W., at county highway bridge, 1 mile north of Brownington, Henry County.	1,660	49
06922800-----	88	Big Buffalo Creek near Stover	Lat 38°20'04", long 93°05'04", in NE¼SE¼SW¼ sec. 12, T. 41 N., R. 20 W., 9 miles southwest of Stover, Benton County.	24.2	9
06923500-----	89	Bennett Spring at Bennett Springs	Lat 37°43'03", long 92°51'26", in NW¼ sec. 1, T. 34 N., R. 18 W., 300 feet downstream from spring outlet at Bennett Springs, Dallas County.	-----	9
06924000-----	90	Niangua River nr Decaturville	Lat 37°56'20", long 92°50'30", in NW¼NE¼ sec. 19, T. 37 N., R. 17 W., 0.3 mile downstream from Sho-Me Power Co-op hydroelectric plant, 8 miles northwest of Decaturville, Camden County.	627	39

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06925200-----	91	Starks Creek at Preston	Lat 37°56'30", long 93°11'30", on line between NW¼ and SW¼ sec. 24, T. 37 N., R. 21 W., at U.S. Highway 54, 0.6 mile east of Preston, Hickory County.	4.18	19
06926000-----	92	Osage River near Bagnell	Lat 38°12'26", long 92°35'23", in NW¼SE¼ sec. 21, T. 40 N., R. 15 W., 1½ miles upstream from Bagnell, and 3 miles downstream from hydroelectric plant of Union Electric Co., Miller County.	14,000	49
06926200-----	93	Van Cleve Branch near Meta	Lat 38°13'35", long 92°09'40", in SE¼NE¼ sec. 8, T. 40 N., R. 11 W., at Missouri State Highway 133, 6.5 miles south of Meta, Maries County.	0.75	9
06926500-----	94	Osage River near St. Thomas	Lat 38°20'20", long 92°13'34", in SE¼SW¼ sec. 35, T. 42 N., R. 12 W., 2.5 miles south of St. Thomas, Cole County.	14,500	39
06927000-----	95	Maries River at Westphalia	Lat 38°25'55", long 91°59'20", in NE¼ sec. 35, T. 43 N., R. 10 W., 200 feet upstream from U.S. Highway 63, 0.7 mile southeast of Westphalia, Osage County.	257	19
06927200-----	96	Big Hollow near Fulton	Lat 38°48'45", long 91°56'45", in NW¼NW¼ sec. 33, T. 47 N., R. 9 W., at County Highway C, 2 miles south of Fulton, Callaway County.	4.05	9
06927800-----	97	Osage Fork Gasconade River at Drynob	Lat 37°38'00", long 92°27'12", in NW¼NE¼ sec. 27, T. 34 N., R. 14 W., at Missouri State Highway 32, 0.6 mile southwest of Drynob, Laclede County.	404	9
06928000-----	98	Gasconade River nr Hazelgreen	Lat 37°45'35", long 92°27'05", in SE¼SE¼ sec. 15, T. 35 N., R. 14 W., at U.S. Highway 66, 1½ miles west of Hazelgreen, Laclede County.	1,250	39

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06928200-----	99	Laquey Branch near Hazelgreen	Lat 37°46'25", long 92°21'52", in SW¼SE¼ sec. 9, T. 35 N., R. 13 W., at U.S. Highway 66, 3 miles east of Hazelgreen, Pulaski County.	1.58	9
06928500-----	100	Gasconade River near Waynesville	Lat 37°52'20", long 92°13'40", in SE¼SE¼ sec. 3, T. 36 W., R. 12 W., at county highway bridge, 4 miles north of Waynesville, Pulaski County.	1,680	49
06928700-----	101	Beeler Branch near Cabool	Lat 37°06'12", long 92°04'17", in SE¼NE¼SE¼ sec. 18, T. 28 N., R. 10 W., at U.S. Highway 60 and 63, 2.1 miles southeast of Cabool, Texas County.	7.78	9
06930000-----	102	Big Piney River near Big Piney	Lat 37°40'00", long 92°03'05", in NE¼SE¼ sec. 8, T. 34 N., R. 10 W., at Ross Highway Bridge, 3 miles east of Big Piney, Pulaski County.	560	49
06931500-----	103	Little Beaver Creek near Rolla	Lat 37°56'06", long 91°50'11", in NW¼NW¼ sec. 17, T. 37 N., R. 8 W., 1,700 feet downstream from U.S. Highway 66, 3 miles west of Rolla, Phelps County.	6.41	19
06932000-----	104	Little Piney Creek at Newburg	Lat 37°54'40", long 91°54'10", in SE¼ sec. 22, T. 37 N., R. 9 W., at County Highways P and T at Newburg, Phelps County.	200	49
06933500-----	105	Gasconade River at Jerome	Lat 37°55'35", long 91°58'40", in SE¼ sec. 13, T. 37 N., R. 10 W., at Jerome, Phelps County.	2,840	49
06934000-----	106	Gasconade River near Rich Fountain	Lat 38°23'20", long 91°49'15", in SE¼ sec. 16, T. 42 N., R. 8 W., at Missouri State Highway 89, 4 miles east of Rich Fountain, Osage County.	3,180	29

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
06934500-----	107	Missouri River at Hermann	Lat 38°42'36", long 91°26'21", in SW¼ sec. 25, T. 46 N., R. 5 W., at Missouri State Highway 19 at Hermann, Gasconade County.	528,200	49
06935500-----	108	Loutre River at Mineola	Lat 38°53'20", long 91°34'30", in SE¼NW¼ sec. 34, T. 48 N., R. 6 W., 1.5 miles downstream from U.S. Highway 40 in Mineola, Montgomery County.	202	9
07010000-----	109	Mississippi River at St. Louis	Lat 38°37'44", long 90°10'47", at Eads Bridge at St. Louis, St. Louis County.	697,000	39
07010350-----	110	Meramec River at Cook Station	Lat 37°49'45", long 91°26'15", in NE¼ sec. 23, T. 36 N., R. 5 W., on State Highway M, 1 mile north of Cook Station, Crawford County.	199	9
07010500-----	111	Meramec Spring near St. James	Lat 37°57'20", long 91°32'57", in NW¼SE¼ sec. 1, T. 37 N., R. 6 W., 600 feet downstream from spring outlet, 6 miles southeast of St. James, Phelps County.	-----	9
07011500-----	112	Green Acre Branch near Rolla	Lat 37°54'50", long 91°43'35", in NW¼SW¼ sec. 20, T. 37 N., R. 7 W., at Missouri State Highway 72, 3 miles southeast of Rolla, Phelps County.	0.62	19
07012000-----	113	Behmke Branch near Rolla	Lat 37°56'05", long 91°42'35", in NE¼NE¼ sec. 17, T. 37 N., R. 7 W., 300 feet upstream from county road, 3.5 miles southeast of Rolla, Phelps County.	1.05	9
07013000-----	114	Meramec River at Steelville	Lat 37°59'55", long 91°21'40", in NE¼ sec. 21, T. 38 N., R. 4 W., at Burlington Northern-Frisco Railroad bridge, 1½ miles north of Steelville, Crawford County.	781	49

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07014500-----	115	Meramec River near Sullivan	Lat 38°09'30", long 91°06'30", in SE¼NE¼ sec. 35, T. 40 N., R. 2 W., at Sappington Bridge, 4 miles south-east of Sullivan, Crawford County.	1,475	20
07015000-----	116	Bourbeuse River near St. James	Lat. 38°02'00", long 91°38'53", in NW¼NW¼ sec. 12, T. 38 N., R. 7 W., 650 feet upstream from Missouri State Highway 68, 3 miles north-west of St. James, Phelps County.	21.3	29
07015500-----	117	Lanes Fork near Rolla	Lat 37°59'33", long 91°43'36", in NE¼NE¼ sec. 30, T. 38 N., R. 7 W., 300 feet west of Highway V, 1 mile north of U.S. Interstate 44, 4.5 miles northwest of Rolla, Phelps County.	0.22	19
07015720-----	118	Bourbeuse River near High Gate	Lat 38°04'49", long 91°34'50", in SE¼NE¼ sec. 4, T. 39 N., R. 6 W., at Missouri State Highway B, 5 miles east of High Gate, Phelps County.	135	9
07016500-----	119	Bourbeuse River at Union	Lat 38°26'45", long 90°59'30", in SW¼ sec. 26, T. 43 N., R. 1 W., at U.S. Highway 50, half a mile east of Union, Franklin County.	808	49
07017000-----	120	Meramec River at Robertsville	Lat 38°25'40", long 90°49'35", in SW¼NW¼ sec. 32, T. 43 N., R. 2 E., at county highway bridge, 1 mile northwest of Robertsville, Franklin County.	2,673	9
07017200-----	121	Big River at Irondale	Lat 37°49'48", long 90°41'27", in SE¼SW¼ sec. 15, T. 36 N., R. 3 E., 50 feet upstream from Missouri State Highway U, 0.8 mile west of Irondale, Washington County.	175	9
07017500-----	122	Dry Branch near Bonne Terre	Lat 37°55'46", long 90°27'40", T. 37 N., R. 5 E., at County Highway K, 4.5 miles east of Bonne Terre, St. Francois County.	3.35	19

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07018000-----	123	Big River near DeSoto	Lat 38°07'20", long 90°40'33", in SW¼NW¼ sec. 11, T. 39 N., R. 3 E., at Mammoth Bridge, 6.5 miles west of DeSoto, Jefferson County.	718	29
07018500-----	124	Big River at Byrnesville	Lat 38°21'45", long 90°39'05", in SE¼ sec. 12, T. 42 N., R. 3 E., at county highway bridge at Byrnesville, Jefferson County.	-----	49
07019000-----	125	Meramec River near Eureka	Lat 38°30'20", long 90°35'30", in SE¼ sec. 32, T. 44 N., R. 4 E., at U.S. Highway 66, 2 miles east of Eureka, St. Louis County.	3,788	49
07020500-----	126	Mississippi River at Chester, Ill.	Lat 37°54'10", long 89°51'10", in SW¼ sec. 24, T. 7 S., R. 7 W., on downstream side of left pier of main truss of Missouri State Highway 51 at Chester, Ill.	708,600	19
07021000-----	127	Castor River at Zalma	Lat 37°08'45", long 90°04'30", in SE¼ sec. 29, T. 29 N., R. 9 E., at Missouri State Highway 51 in Zalma, Bollinger County.	423	49
07022000-----	128	Mississippi River at Thebes, Ill.	Lat 37°13'00", long 89°27'50", in NW¼ sec. 17, T. 15 S., R. 3 W., downstream side of center span of railroad bridge at Thebes, Ill., Alexander County.	-----	29
07035500-----	129	Barnes Creek near Fredericktown	Lat 37°34'20", long 90°23'00", in SW¼SE¼ sec. 4, T. 33 N., R. 6 E., at Missouri State Highway 72, 5.3 miles west of Fredericktown, Madison County.	4.03	19
07037500-----	130	St. Francis River near Patterson	Lat 37°11'40", long 90°30'10", in NE¼ sec. 16, T. 29 N., R. 5 E., at Missouri State Highway 34, 3 miles east of Patterson, Wayne County.	956	49

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07037700-----	131	Clark Creek near Piedmont	Lat 37°11'10", long 90°37'45", in SE¼NE¼ sec. 17, T. 29 N., R. 4 E., at Missouri State Highway 34, 3.5 miles northeast of Piedmont, Wayne County.	4.39	19
07039500-----	132	St. Francis River at Wappapello	Lat 36°55'41", long 90°15'55", in NW¼SE¼ sec. 2, T. 26 N., R. 7 E., at county highway bridge, half a mile southeast of Wappapello, Wayne County.	1,311	39
07040000-----	133	St. Francis River at Fisk	Lat 36°46'50", long 90°12'10", in SW¼ sec. 28, T. 25 N., R. 8 E., at U.S. Highway 60 at Fisk, Stoddard County.	1,370	9
07041000-----	134	Little River ditch 81 near Kennett	Lat 36°14'10", long 89°58'55", in NE¼ sec. 4, T. 18 N., R. 10 E., at Missouri State Highway 84, 4 miles east of Kennett, Dunklin County.	111	49
07042000-----	135	Little River ditch 1 near Kennett	Lat 36°14'10", long 89°58'50", in NE¼ sec. 4, T. 18 N., R. 10 E., at Missouri State Highway 84, 4 miles east of Kennett, Dunklin County.	235	49
07042500-----	136	Little River ditch 251 nr Lilbourn	Lat 36°33'20", long 89°40'12", in SW¼SE¼ sec. 8, T. 22 N., R. 13 E., at U.S. Highway 62, 3.7 miles southwest of Lilbourn, New Madrid County.	235	29
07043000-----	137	Castor River at Aquilla	Lat 36°57'08", long 89°54'25", in NE¼SE¼ sec. 25, T. 27 N., R. 10 E., at Missouri State Highway 25, 0.5 mile north of Aquilla, Stoddard County.	175	29
07043500-----	138	Little River ditch 1 nr Morehouse	Lat 36°50'03", long 89°43'48", in SW¼SE¼ sec. 2, T. 25 N., R. 12 E., at Missouri State Highway 114, 2 miles west of Morehouse, Stoddard County.	450	29

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07044000-----	139	Little River ditch 251 nr Kennett	Lat 36°14'10", long 89°58'40", in NW¼ sec. 3, T. 18 N., R. 10 E., at Missouri State Highway 84, about 4 miles east of Kennett, Dunklin County.	883	49
07045000-----	140	Little River ditch 66 nr Kennett	Lat 36°14'09", long 89°58'48", in NE¼ sec. 4, T. 18 N., R. 10 E., at Missouri State Highway 84, 4 miles east of Kennett, Dunklin County.	-----	49
07046000-----	141	Little River ditch 259 nr Kennett	Lat 36°14'08", long 89°58'41", in NW¼ sec. 3, T. 18 N., R. 10 E., at Missouri State Highway 84, 4 miles east of Kennett, Dunklin County.	89.0	49
07050700-----	142	James River near Springfield	Lat 37°08'59", long 93°12'10", in NE¼NW¼ sec. 11, T. 28 N., R. 21 W., at Kinser bridge, 2.5 miles south-east of Springfield, Greene County.	246	19
07052500-----	143	James River at Galena	Lat 36°48'19", long 93°27'41, in SW¼SE¼SW¼ sec. 6, T. 24 N., R. 23 W., at Missouri State Highway 13-248 at Galena, Stone County.	987	49
07053000-----	144	White River near Reeds Spring	Lat 36°37'20", long 93°25'20", in NE¼SE¼ sec. 9, T. 22 N., R. 23 W., at Missouri State Highway 13, 12 miles south of Reeds Spring, Stone County.	3,617	9
07053500-----	145	White River near Branson	Lat 36°35'51", long 93°17'42", in SE¼NE¼ sec. 22, T. 22 N., R. 22 W., 0.9 mile downstream from Table Rock Dam, 5 miles southwest of Branson, Taney County.	4,022	19
07057500-----	146	North Fork River nr Tecumseh	Lat 36°37'22", long 92°14'53", in NE¼SE¼ sec. 35, T. 23 N., R. 12 W., 3.5 miles northeast of Tecumseh, Ozark County.	561	29

Table 1.---Streamflow-gaging stations where daily flow-duration data have been developed---continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07058000-----	147	Bryant Creek near Tecumseh	Lat 36°37'33", long 92°18'16", in E½ sec. 32, T. 23 N., R. 12 W., 3 miles northwest of Tecumseh, Ozark County.	570	29
07058500-----	148	North Fork River at Tecumseh	Lat 36°37'22", long 92°14'53", in NE¼SE¼ sec. 35, T. 23 N., R. 12 W., 3.5 miles northeast of Tecumseh, Ozark County.	561	19
07061300-----	149	East Fork Black River at Lesterville	Lat 37°27'03", long 90°49'38", in NE¼SE¼ sec. 16, T. 32 N., R. 2 E., at Missouri State Highway 21, at Lesterville, Reynolds County.	94.5	19
07061500-----	150	Black River near Annapolis	Lat 37°20'10", long 90°47'19", in SW¼NW¼ sec. 25, T. 31 N., R. 2 E., 7 miles southwest of Annapolis, Reynolds County.	484	39
07062500-----	151	Black River at Leeper	Lat 37°04'42", long 90°42'52", in SP¼SW¼ sec. 22, T. 28 N., R. 5 E., at Missouri State Highway 34, 0.5 mile northeast of Leeper, Wayne County.	957	49
07063000-----	152	Black River at Poplar Bluff	Lat 36°45'34", long 90°23'17", in SW¼NW¼ sec. 2, T. 24 N., R. 6 E., at City Light and Water Plant at Poplar Bluff, Butler County.	1,245	39
07064300-----	153	Fudge Hollow near Licking	Lat 37°31'50", long 91°44'15", in NW¼SW¼ sec. 29, T. 33 N., R. 7 W., at Missouri State Highway 32, 7.5 miles east of Licking, Dent County.	1.72	19
07064500-----	154	Big Creek near Yukon	Lat 37°14'00", long 91°51'00", in SW¼NW¼ sec. 5, T. 29 N., R. 8 W., at Missouri State Highway 137, 3 miles south of Yukon, Texas County.	8.36	19
07065000-----	155	Round Spring at Round Spring	Lat 37°16'57", long 91°24'27", in SW¼NW¼ sec. 20, T. 30 N., R. 4 W., 1,500 feet upstream from Current River at State Highway 19 at Round Spring, Shannon County.	-----	9

Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07065600-----	156	Alley Spring at Alley	Lat 37°09'11.4", long 91°26'29", in NW¼SE¼ sec. 25, T. 29 N., R. 5 W., 200 feet below outlet, 5 miles west of Eminence, Shannon County.	-----	9
07066000-----	157	Jacks Fork at Eminence	Lat 37°09'18", long 91°21'31", in SW¼NW¼ sec. 26, T. 29 N., R. 4 W., on left bank 50 feet upstream from bridge on Missouri State Highway 19 at Eminence, Shannon County.	398	49
07066500-----	158	Current River near Eminence	Lat 37°11'00", long 91°15'30", in SW¼NW¼ sec. 15, T. 29 N., R. 3 W., 1 mile downstream from Jacks Fork, 8 miles northeast of Eminence, Shannon County.	1,272	49
07067000-----	159	Current River at Van Buren	Lat 36°59'30", long 91°00'55", in NE¼NW¼ sec. 25, T. 27 N., R. 1 W., at U.S. Highway 60 in Van Buren, Carter County.	1,667	49
07067500-----	160	Big Spring near Van Buren	Lat 36°57'05", long 90°59'36", in SW¼NE¼ sec. 6, T. 26 N., R. 1 E., 400 feet downstream from spring outlet, 3.5 miles southeast of Van Buren, Carter County.	-----	49
07068000-----	161	Current River at Doniphan	Lat 36°37'19", long 90°50'51", in NW¼NW¼ sec. 27, T. 23 N., R. 2 E., 0.5 mile upstream from U.S. Highway 160, 1 mile west of Doniphan, Ripley County.	2,038	39
07070000-----	162	Kings Creek near Willow Springs	Lat 36°58'15", long 91°55'40", in NW¼SW¼ sec. 34, T. 27 N., R. 9 W., at U.S. Highway 60, 2.5 miles south-east of Willow Springs, Howell County.	4.91	9
07070500-----	163	Eleven Point River nr Thomasville	Lat 36°47'05", long 91°29'30", in NE¼NE¼ sec. 3, T. 23 N., R. 5 W., 2.5 miles east of Thomasville, Oregon County.	361	19

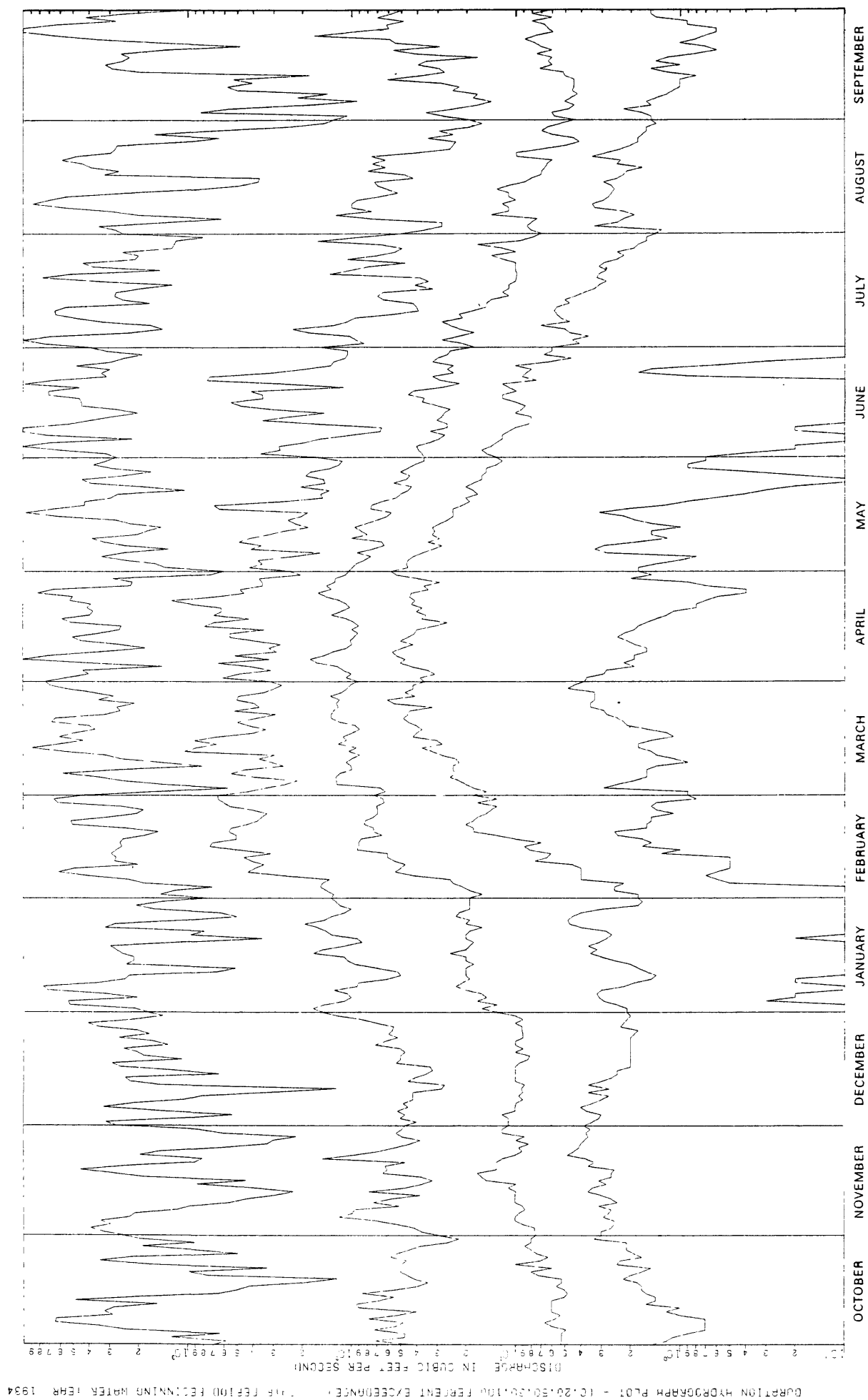
Table 1.--Streamflow-gaging stations where daily flow-duration data have been developed--continued

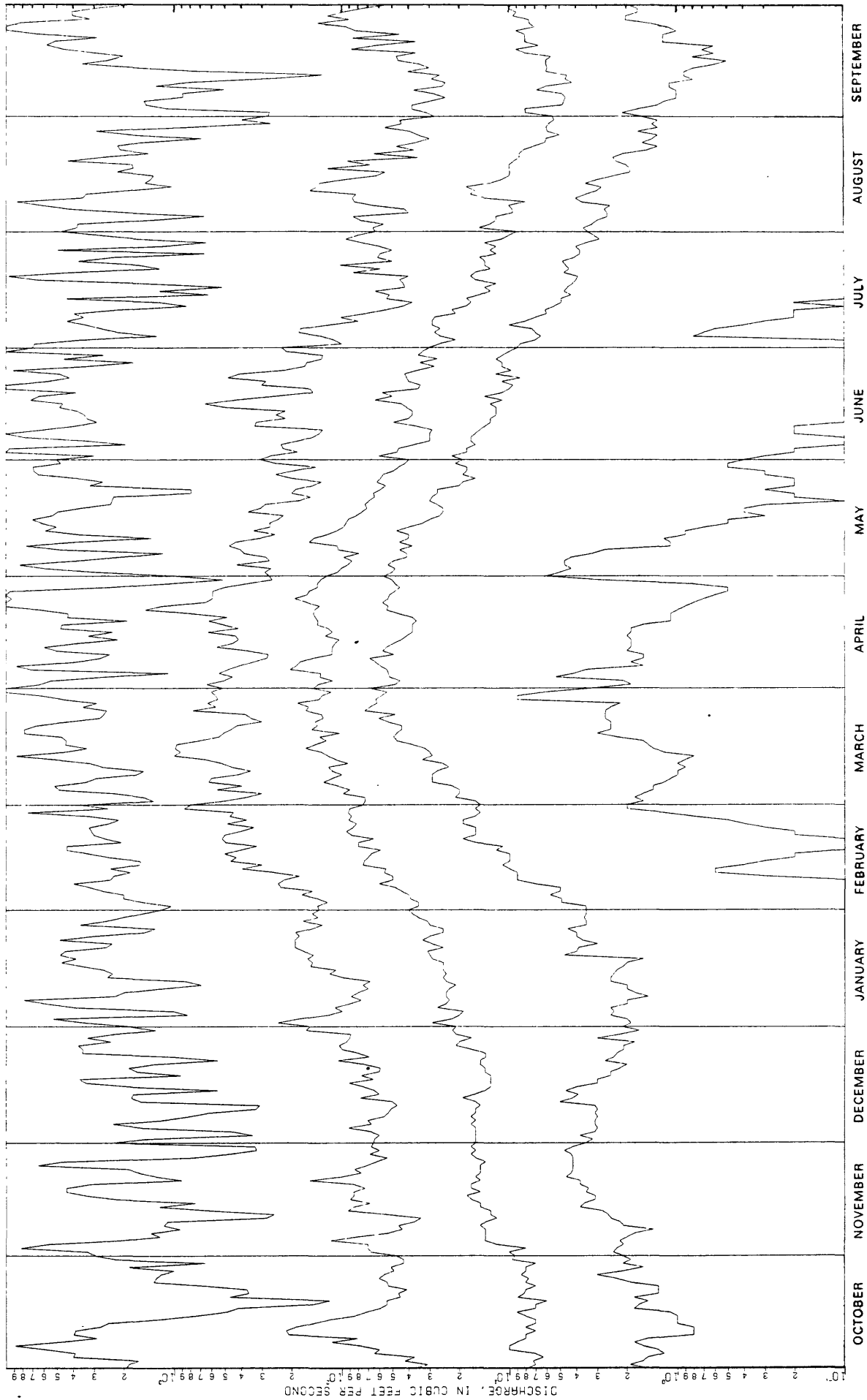
Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07187000-----	172	Shoal Creek above Joplin	Lat 37°01'23", long 94°30'58", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 34, T. 27 N., R. 33 W., 1,400 feet downstream from Missouri State Highway 86, 0.5 mile south of Joplin, Newton County.	427	29
07187500-----	173	Shoal Creek near Joplin	Lat 37°02'05", long 94°32'30", in NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 28, T. 27 N., R. 33 W., at Grand Falls Hydroelectric Plant of Empire District Electric Co., 4 miles south of Joplin, Newton County.	458	9
07188500-----	174	Lost Creek at Seneca	Lat 36°50'28", long 94°36'30", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 35, T. 25 N., R. 34 W., at Missouri State Highway 43, in Seneca, Newton County.	42.0	9
07189000-----	175	Elk River near Tiff City	Lat 36°37'50", long 94°35'12", in NE $\frac{1}{4}$ sec. 22, T. 22 N., R. 34 W., at Missouri State Highway 43, 3 miles southeast of Tiff City, McDonald County.	872	39

Table. 1--Streamflow-gaging stations where daily flow-duration data have been developed--continued

Station no.	Map no. (fig. 1)	Station name	Location	Drainage area, in square miles	Computation period, in years
07071000-----	164	Greer Spring at Greer	Lat 36°47'11", long 91°20'53", in SE¼SW¼ sec. 36, T. 25 N., R. 4 W., 300 feet downstream from lower spring outlet, 1 mile north of Greer, Oregon County.	-----	39
07071500-----	165	Eleven Point River near Bardley	Lat 36°38'55", long 91°12'03", in NE¼SE¼ sec. 17, T. 23 N., R. 2 W., at U.S. Highway 160, 7 miles west of Bardley, Oregon County.	793	49
07185500-----	166	Stahl Creek near Miller	Lat 37°11'40", long 93°50'40", in SE¼ sec. 26, T. 29 N., R. 27 W., at Missouri State Highway 39, 1.5 miles south of Miller, Lawrence County.	3.86	19
07185700-----	167	Spring River at Larussell	Lat 37°09'15", long 94°03'20", in SW¼SW¼ sec. 12, T. 28 N., R. 29 W., at Bowers Mill Bridge, 0.8 mile north of Larussell, Lawrence County.	306	19
07185765-----	168	Spring River at Carthage	Lat 37°11'11", long 94°18'56", in NW¼SE¼ sec. 33, T. 29 N., R. 31 W., at Missouri-Pacific Railroad Bridge at Carthage, Jasper County.	425	9
07186000-----	169	Spring River near Waco	Lat 37°14'44", long 94°33'58", on line between SW¼ sec. 7 and NE¼ sec. 18, T. 29 N., R. 33 W., at county highway bridge, 1.5 miles east of Waco, Jasper County.	1,164	39
07186400-----	170	Center Creek near Carterville	Lat 37°08'26", long 94°22'57", in NW¼NE¼NW¼ sec. 24, T. 28 N., R. 32 W., at Missouri State Highway HH, 3 miles east of Carterville, Jasper County.	232	9
07186600-----	171	Turkey Creek near Joplin	Lat 37°07'15", long 94°34'55", in NE¼SE¼ sec. 25, T. 28 N., R. 34 W., at County Highway P, 3 miles north-west of Joplin, Jasper County.	41.8	9

Figure 2.--Daily flow-duration hydrographs for streamflow-gaging stations having continuous stage-discharge record.





FOX RIVER AT WAYLAND, MO.

05435000

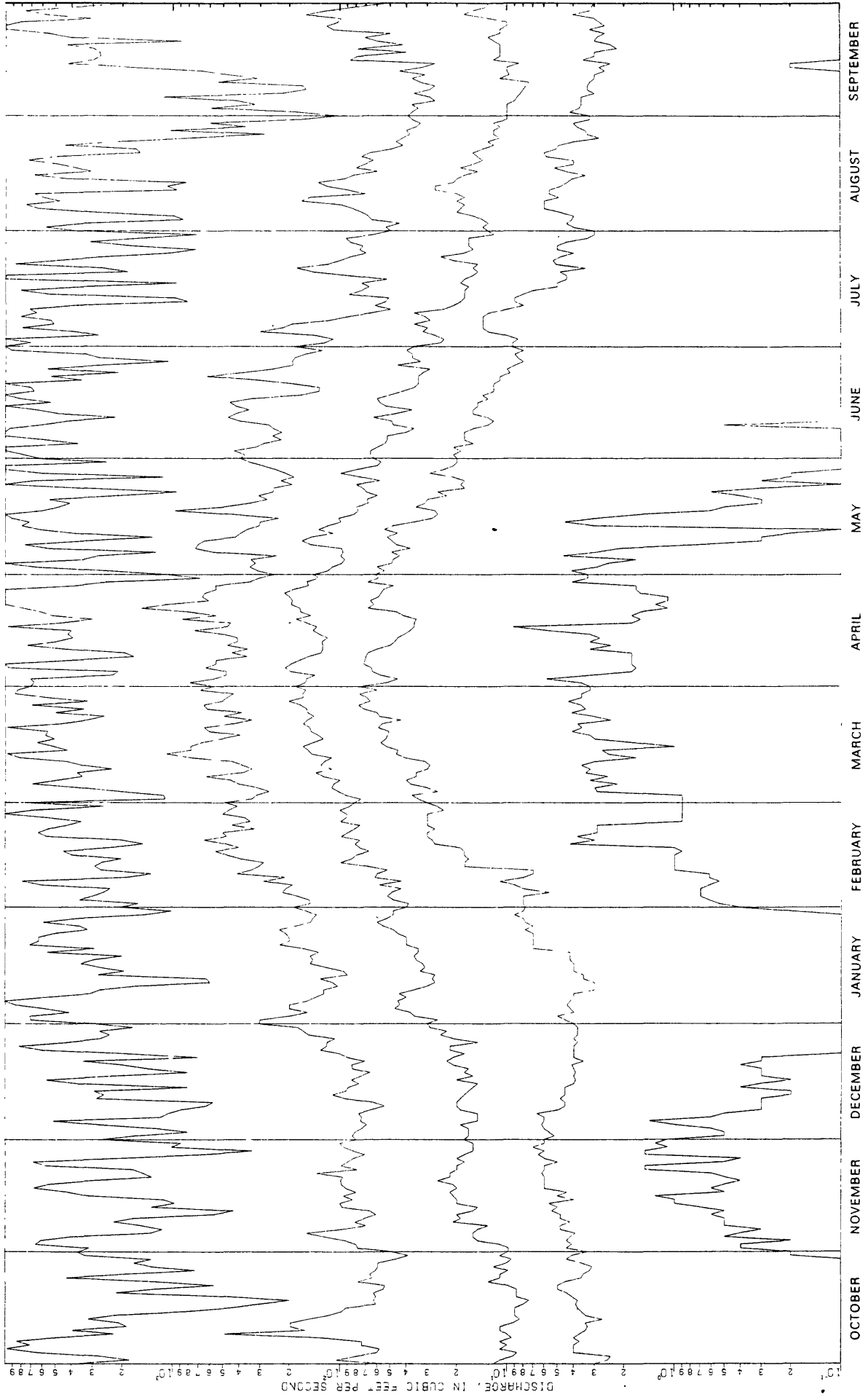
1931

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

NORTH FABIAN RIVER AT MONTICELLO, ID

05497000

1931

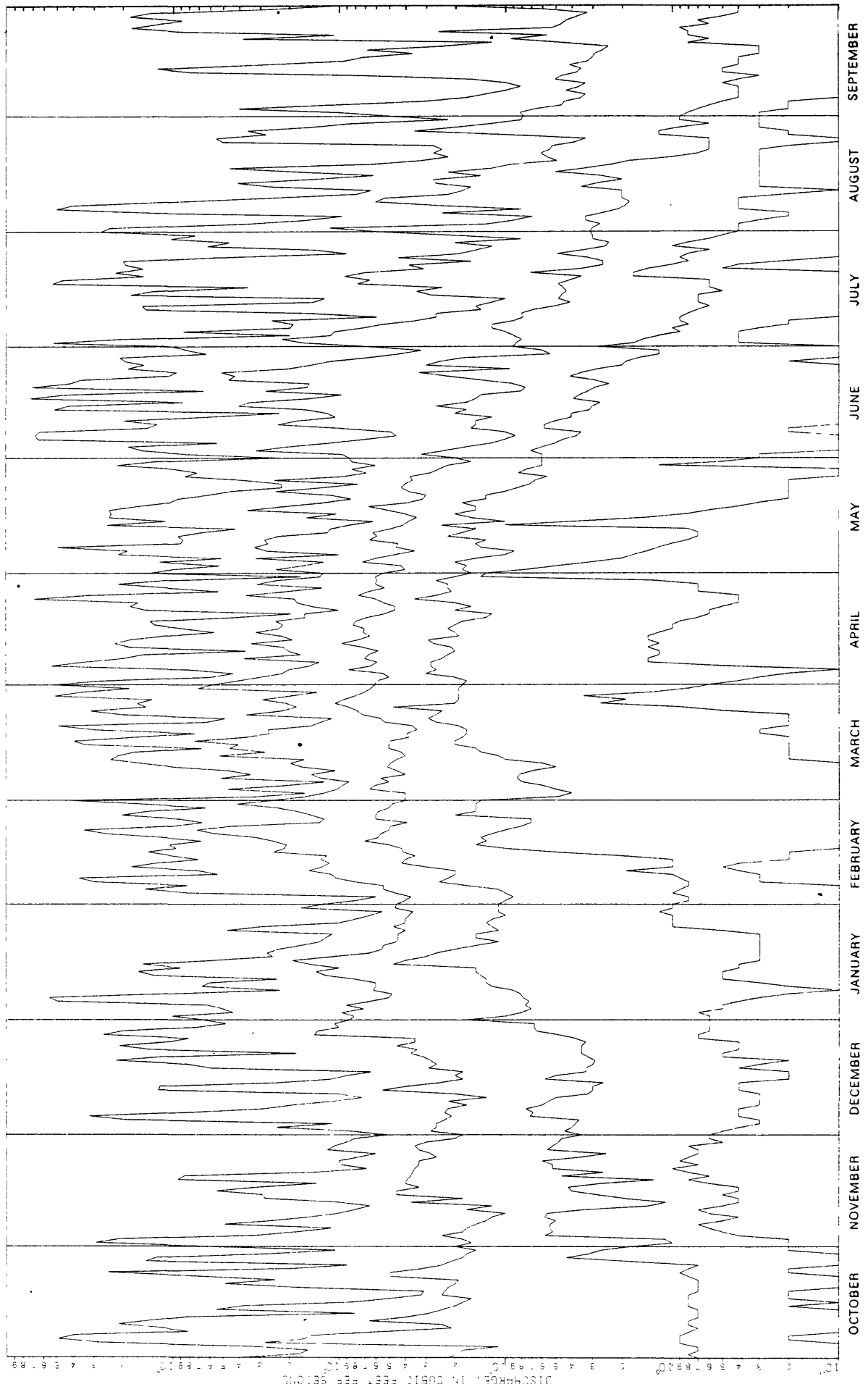


MIDDLE FABIANUS RIVER NEAR BERING, MO.

05497500

1942

DURATION HYDROGRAPH PLOT - 10.20.50.10.100 PERCENT EXCEEDANCE 1942 PERIOD BEGINNING WATER YEAR 1942

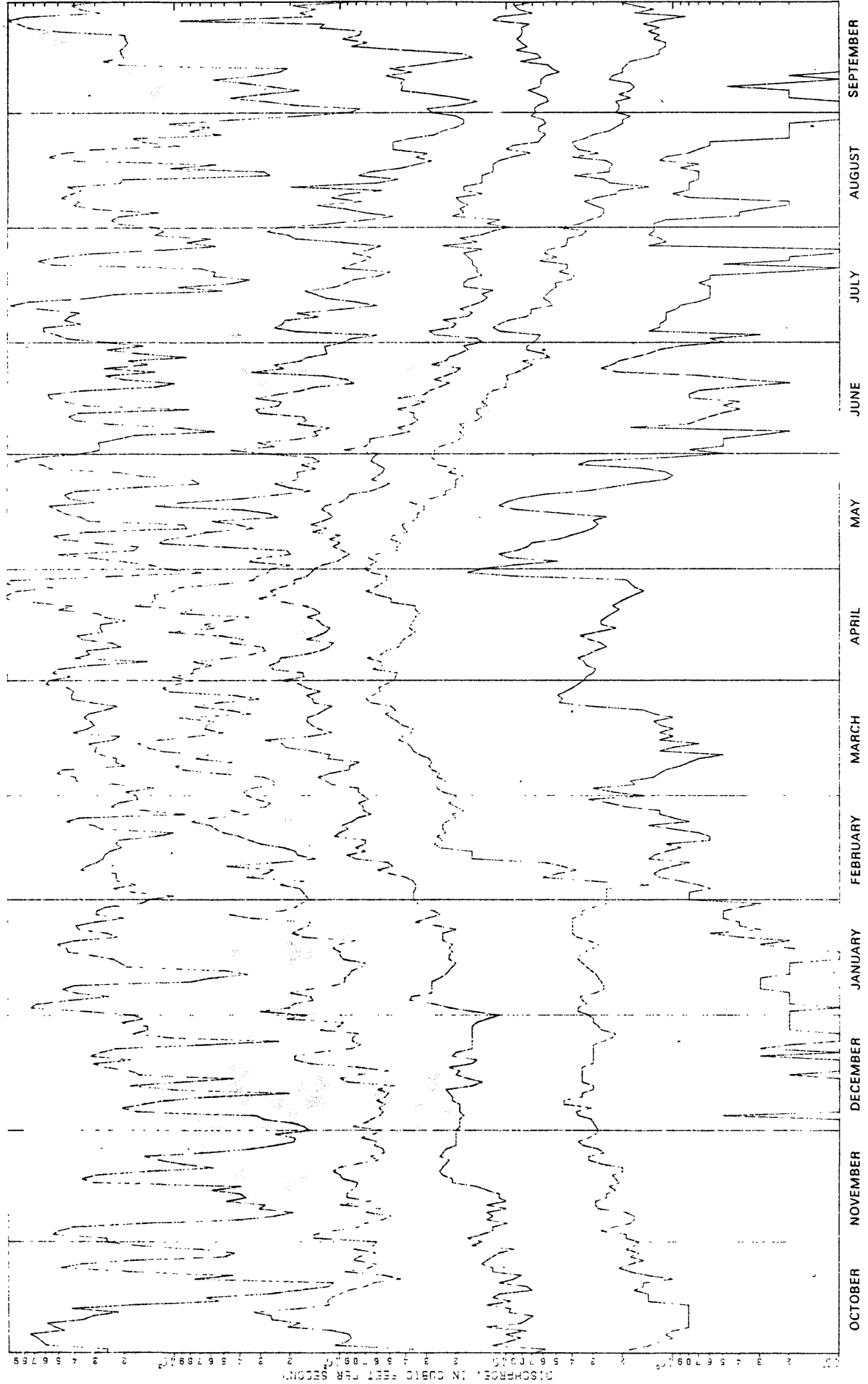


MIDDLE FABIAN RIVER NEAR MONTICELLO, MO

05498000

1951

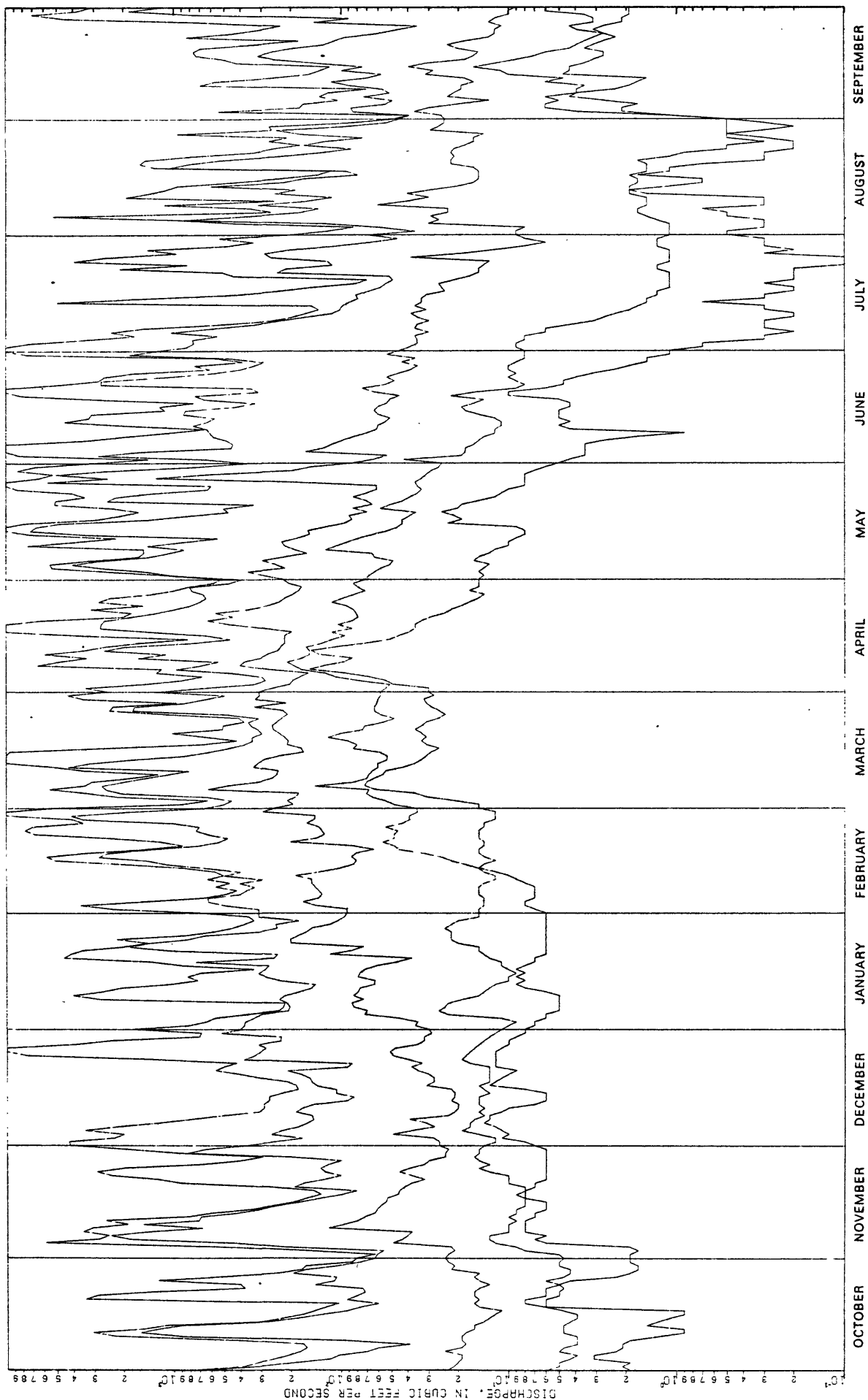
HYDROGRAPH FOR 10.00.00.00.00 PERCENT EXCESS ONCE 29.18 PERIOD BEGINNING LATER YEAR 1951



1933

05498500

NORTH FABIAN RIVER AT TAYLOR, MO.



DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1933

SEPTEMBER

AUGUST

JULY

JUNE

MAY

APRIL

MARCH

FEBRUARY

JANUARY

DECEMBER

NOVEMBER

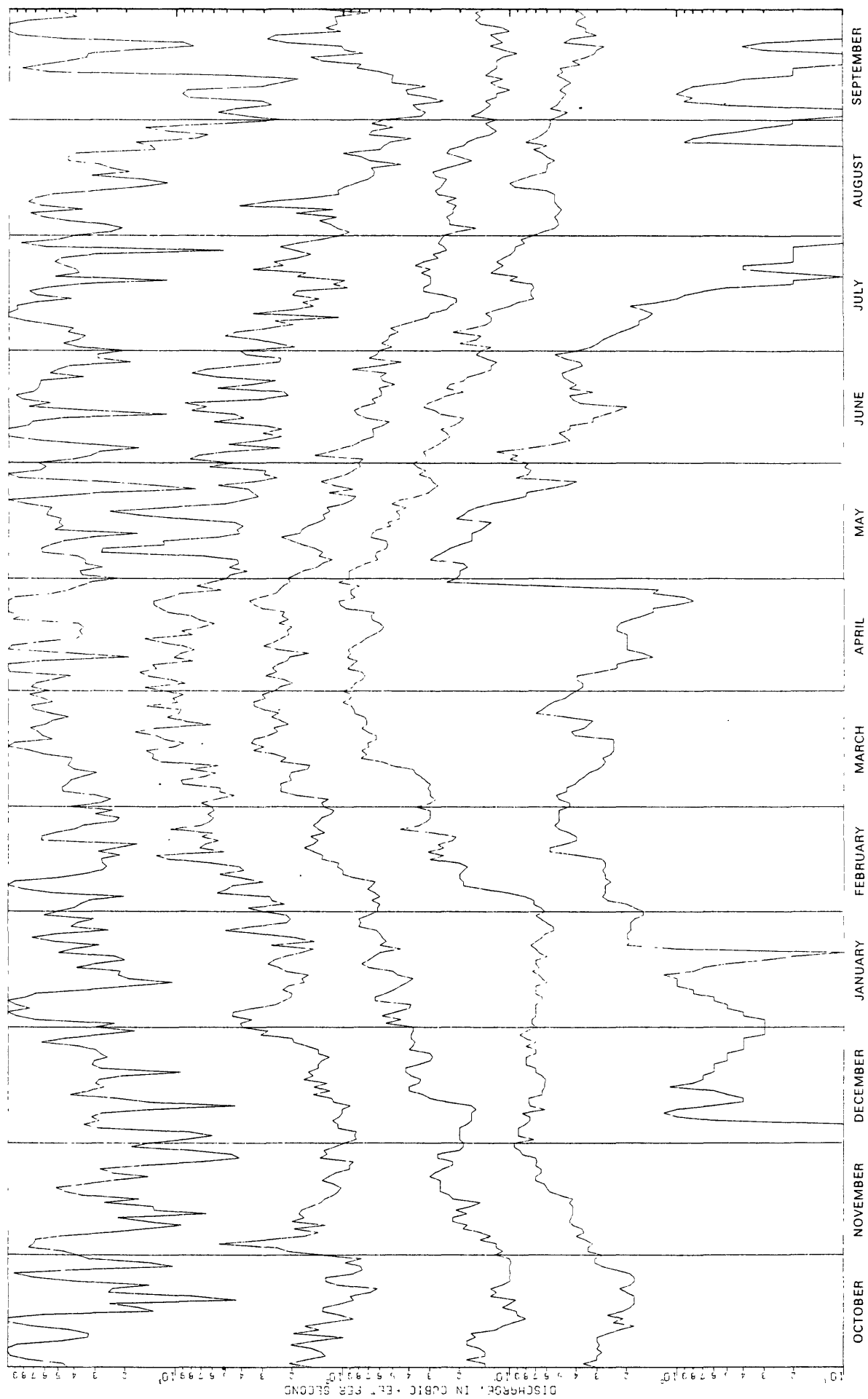
OCTOBER

1941

05500000

SOUTH FABIOUS RIVER NEAR TAYLOR, MO

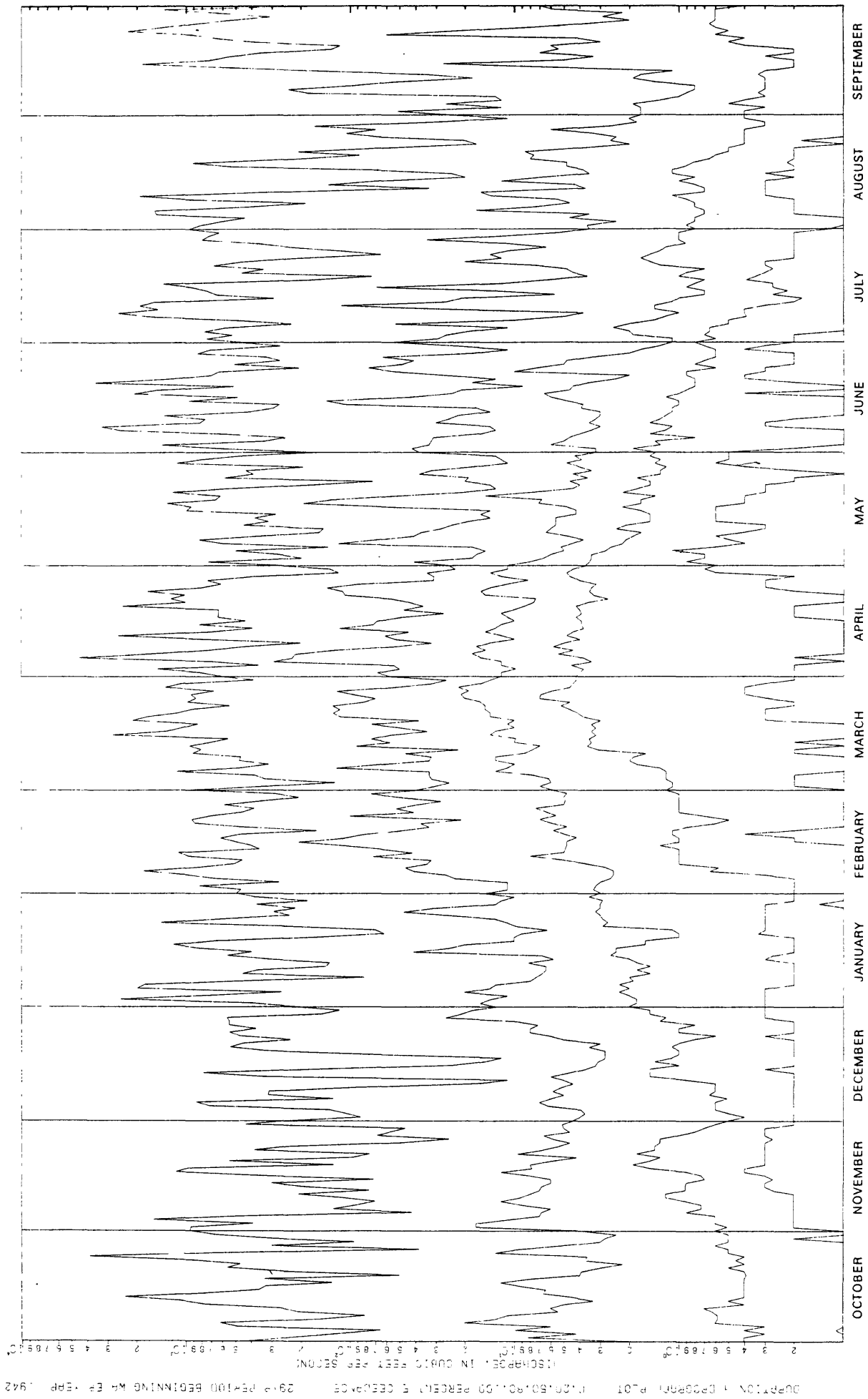
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941



NORTH RIVER AT BETHEL, MO

05500500

1942

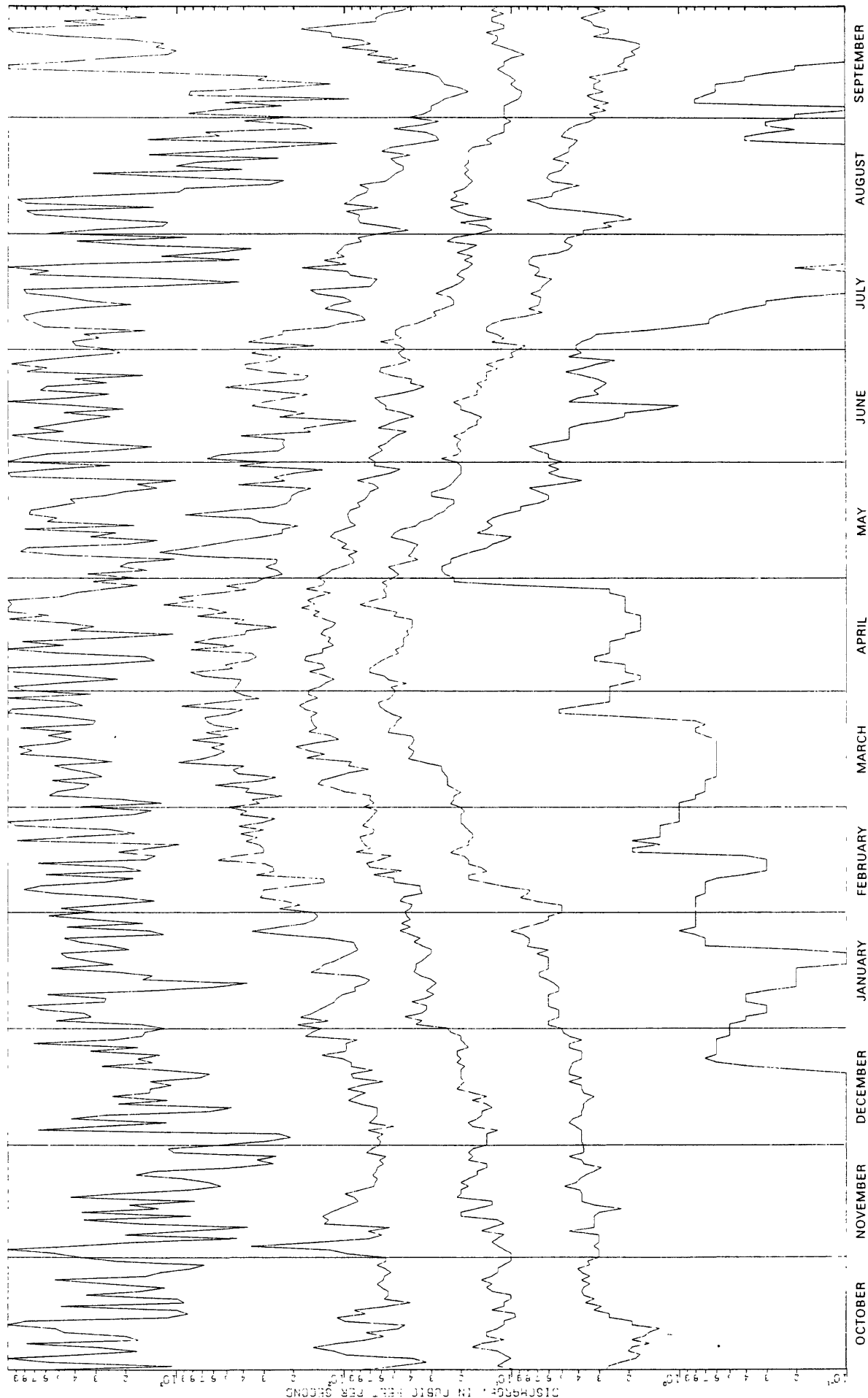


NORTH RIVER AT PALMYRA. MO

05501000

1941

DURATION HYDROGRAPH PLOT - (0.00100 PERCENT EXCEEDANCE) 39% PERIOD BEGINNING WATER YEAR 1941

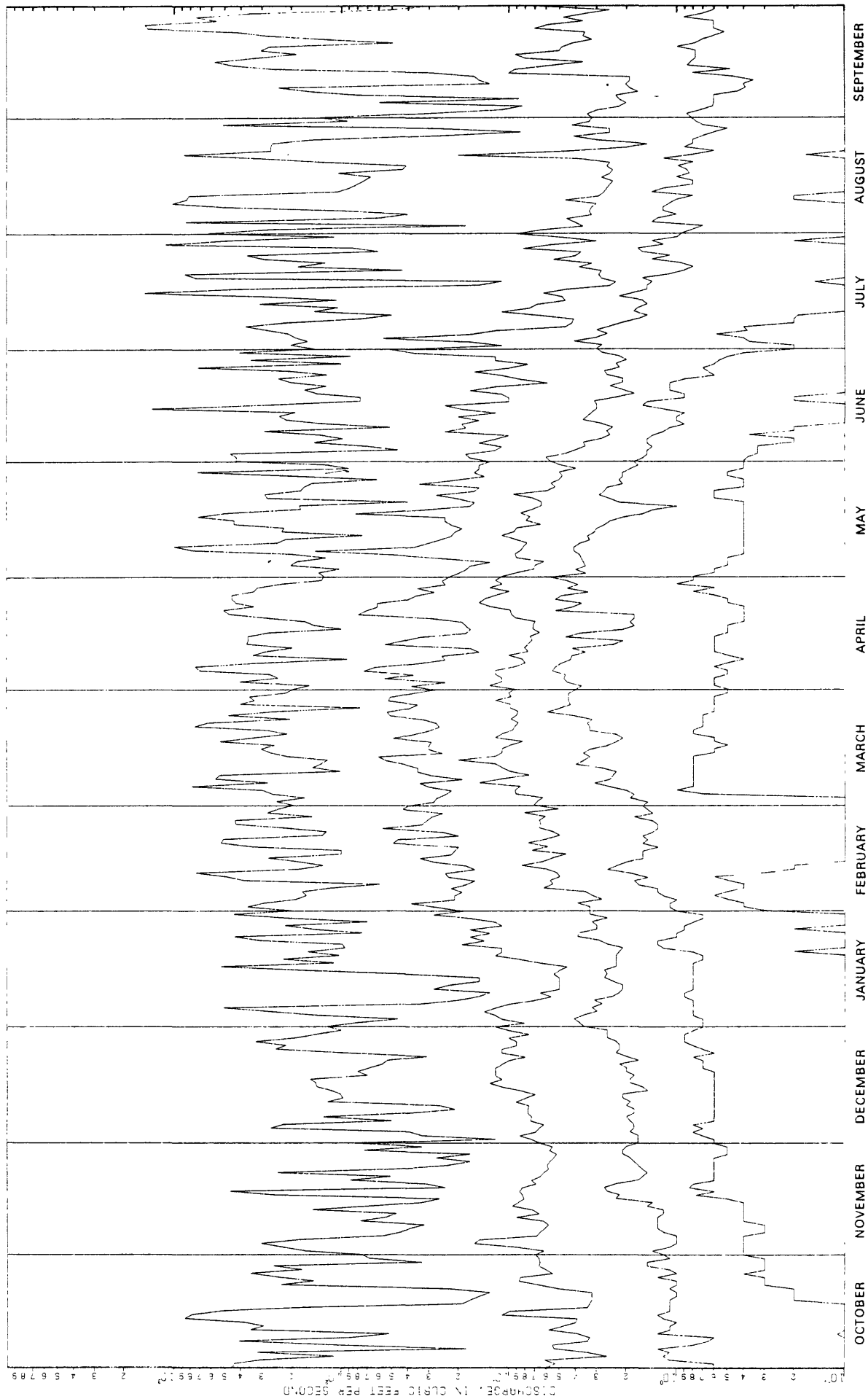


BEAR CREEK AT HANNIBAL, MO.

65502000

1951

DURATION: HYDROGRAPH PLOT - 10.20.50.60.100 PERCENT EXCEEDANCE 29-F PERIOD BEGINNING WATER YEAR 1951



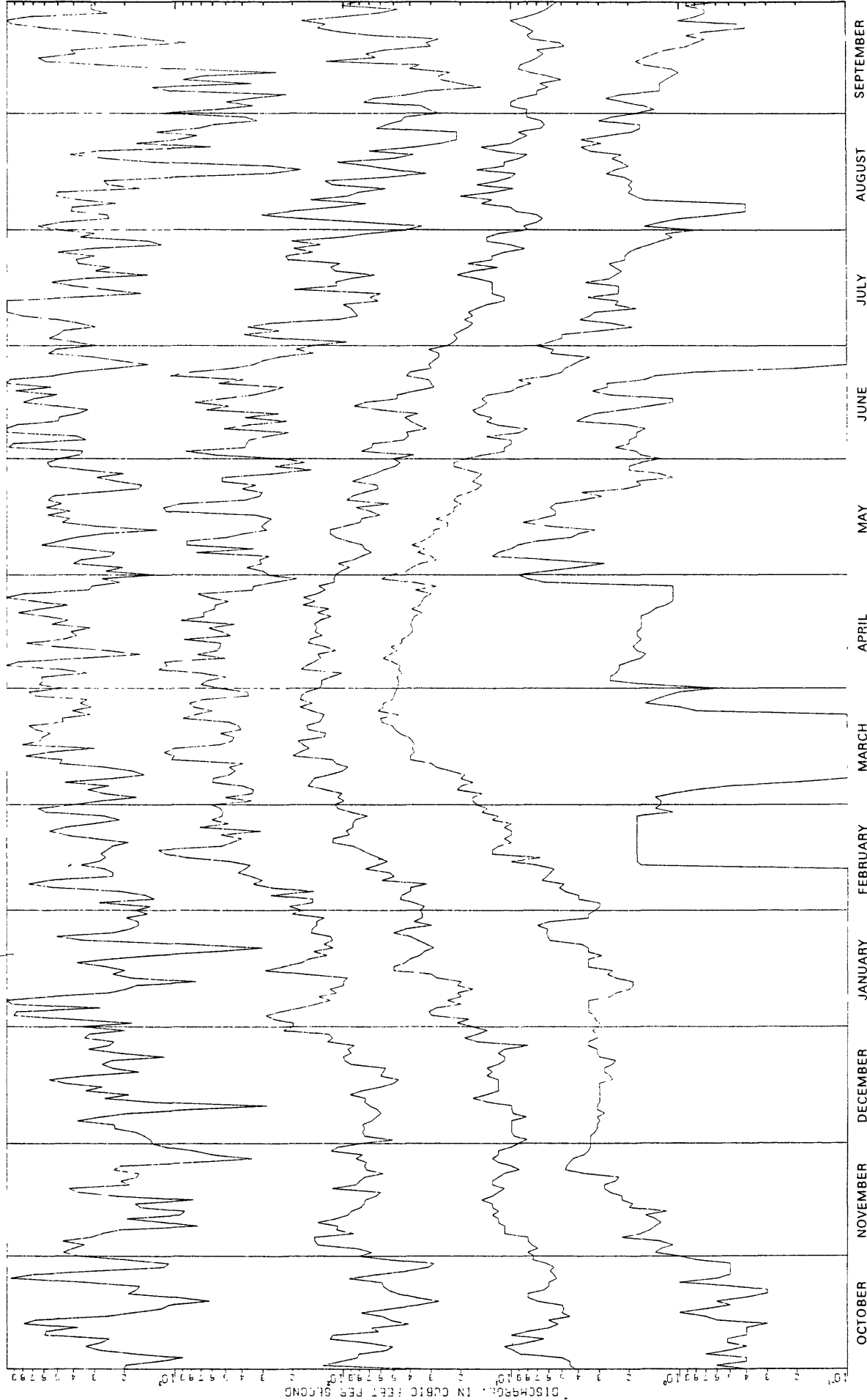
57

SALT RIVER NEAR SHELBY, MO

05502500

1934

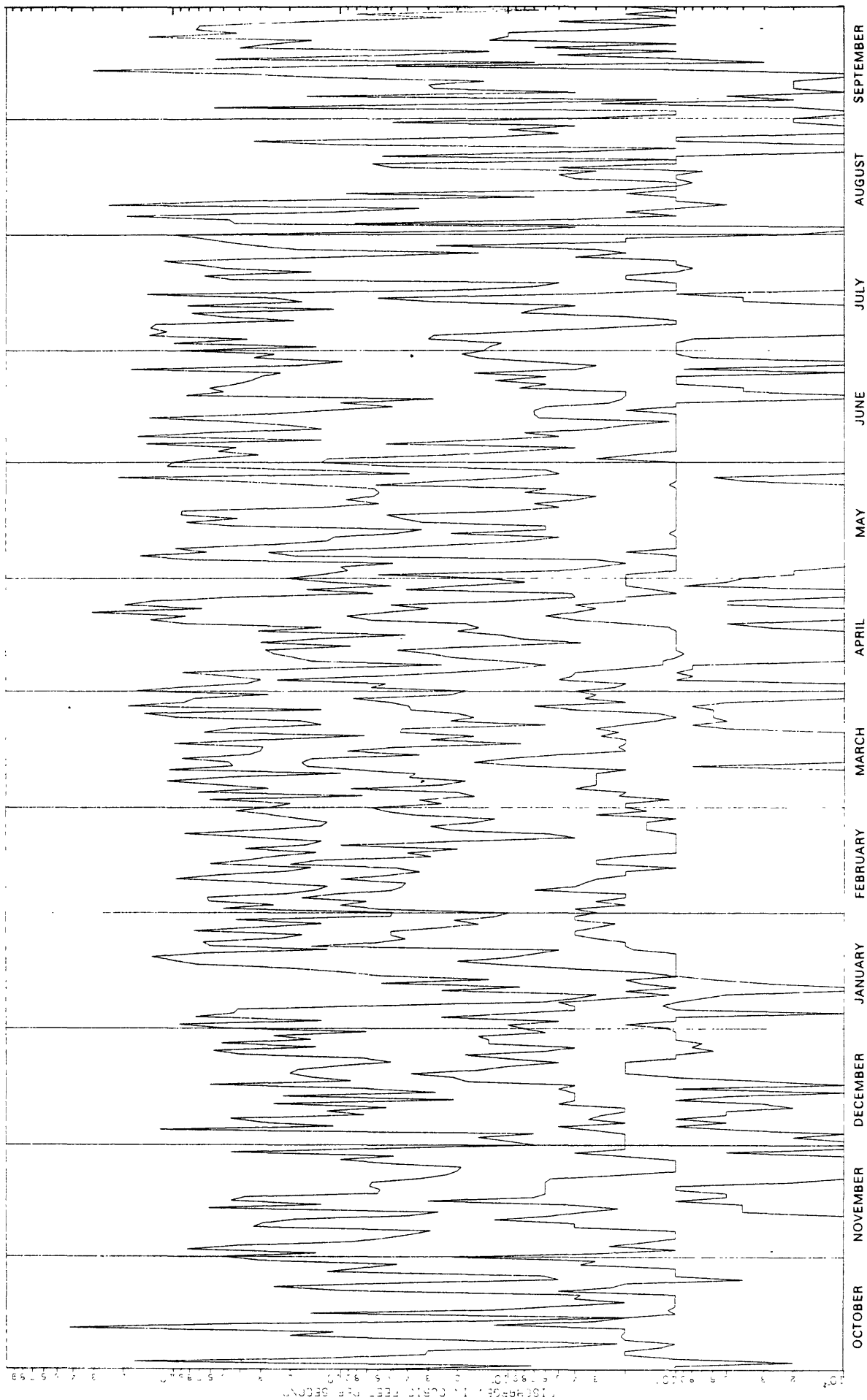
DURATION HYDROGRAPH PLOT - (0.20, 50, 95, 100 PERCENT EXCEEDANCE) 30YR PERIOD BEGINNING WATER YEAR 1934



ORK DALE BRANCH NEAR EMDEN. HO

05503000

1957

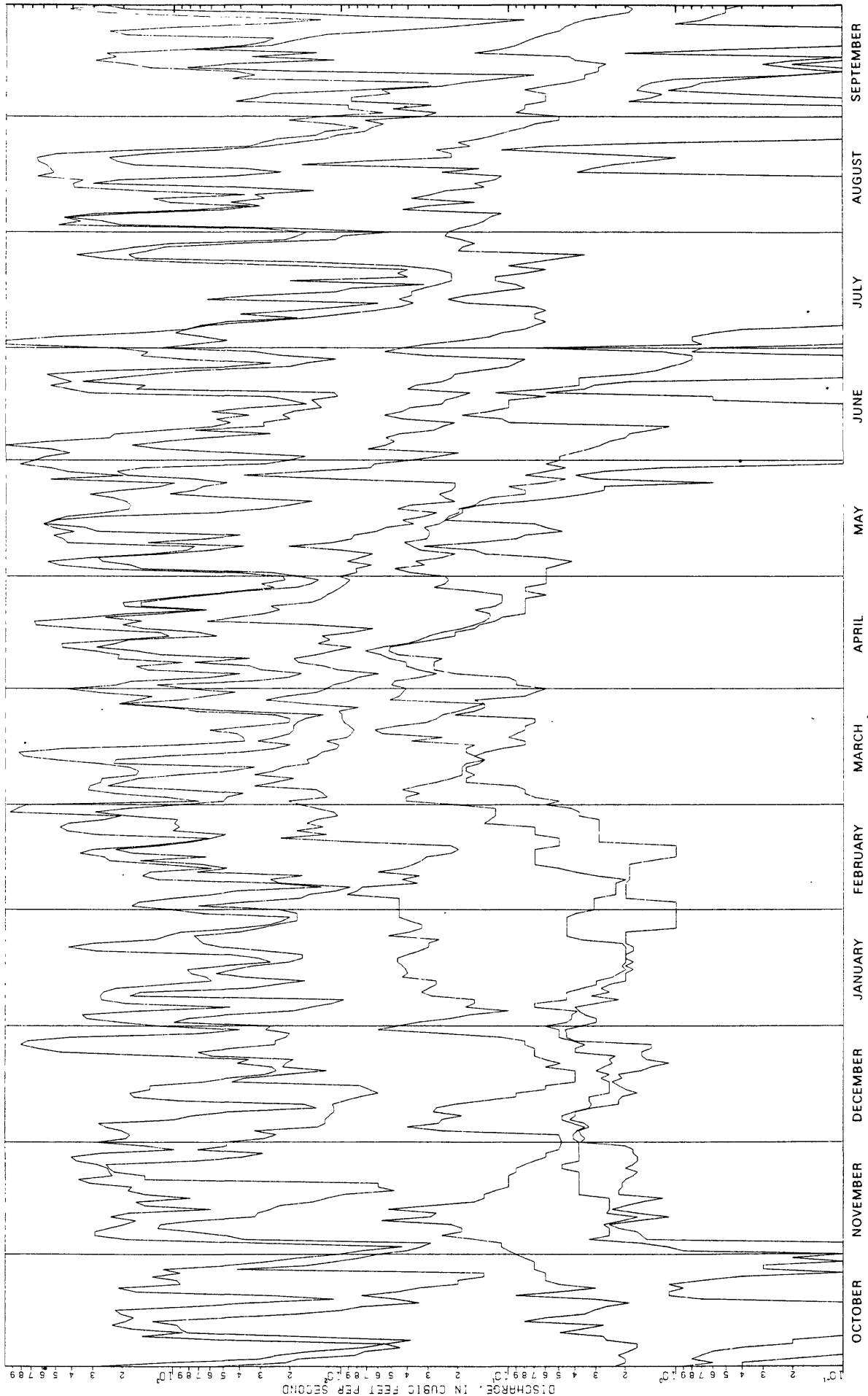


SALT RIVER NEAR HUNNEWELL, MO.

95503500

1932

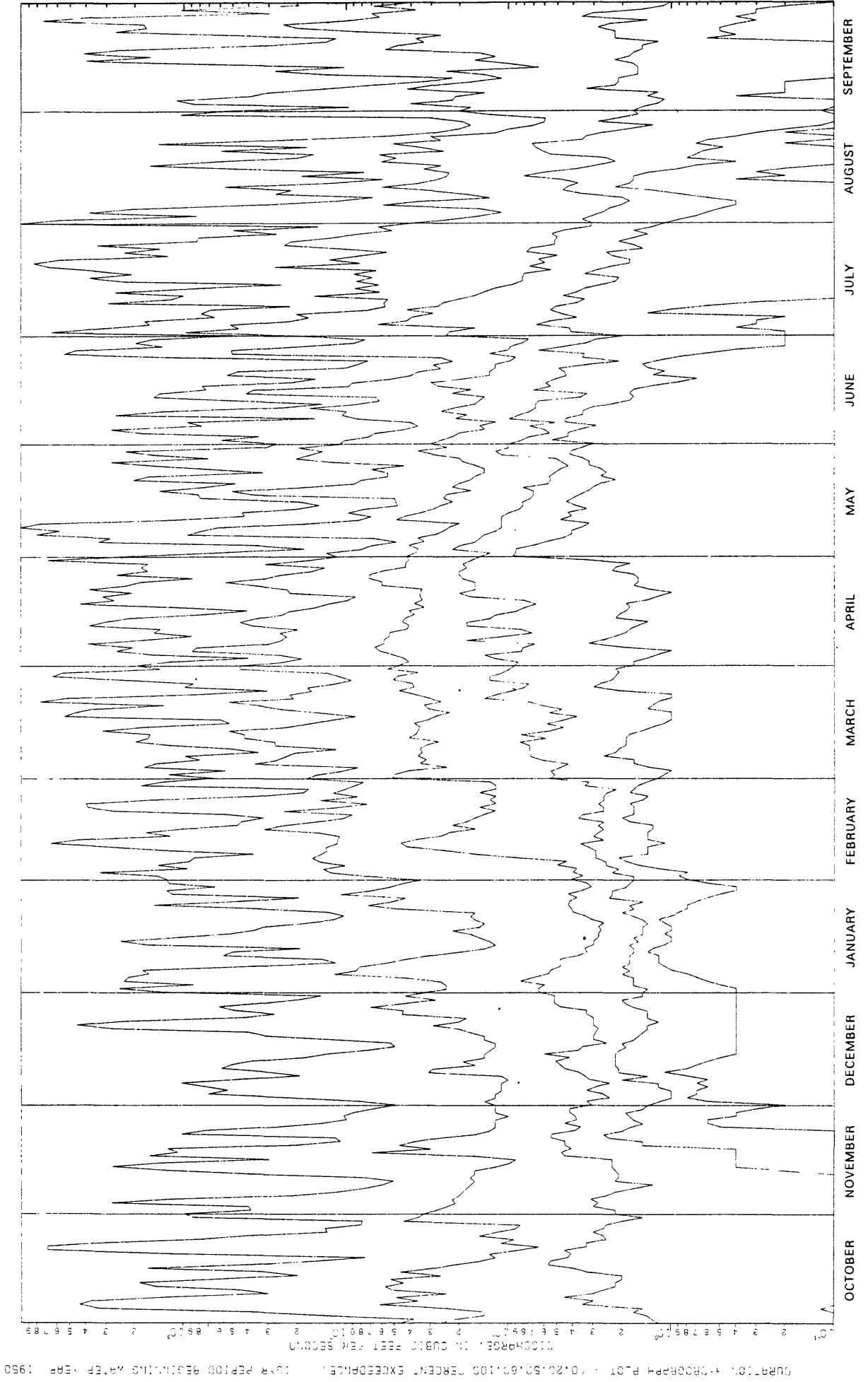
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1932



SOUTH FORK SALT RIVER AT SANTA FE, MO.

05505000

1950



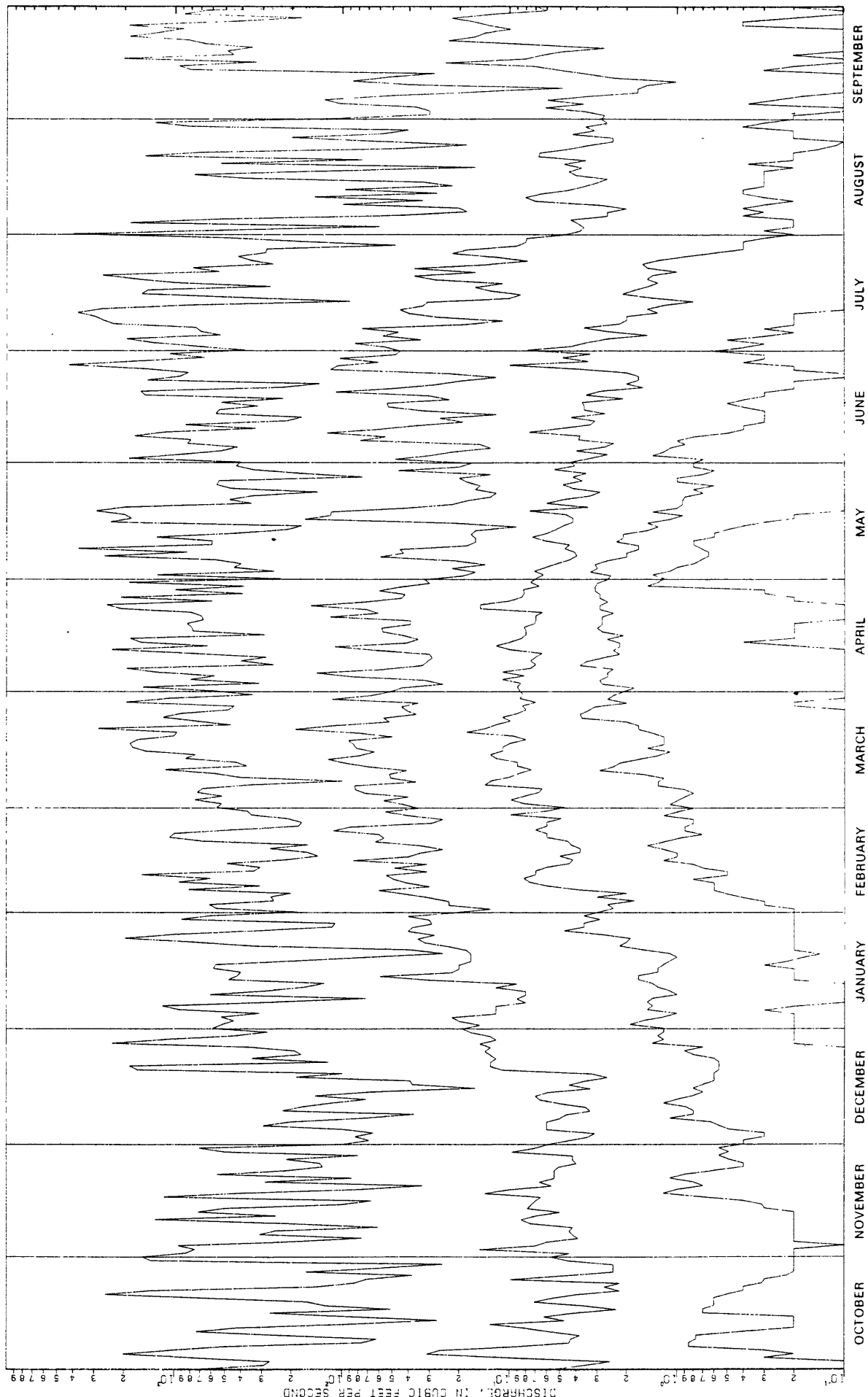
4/

YOUNGS CREEK NEAR MEXICO, MO.

05506000

1941

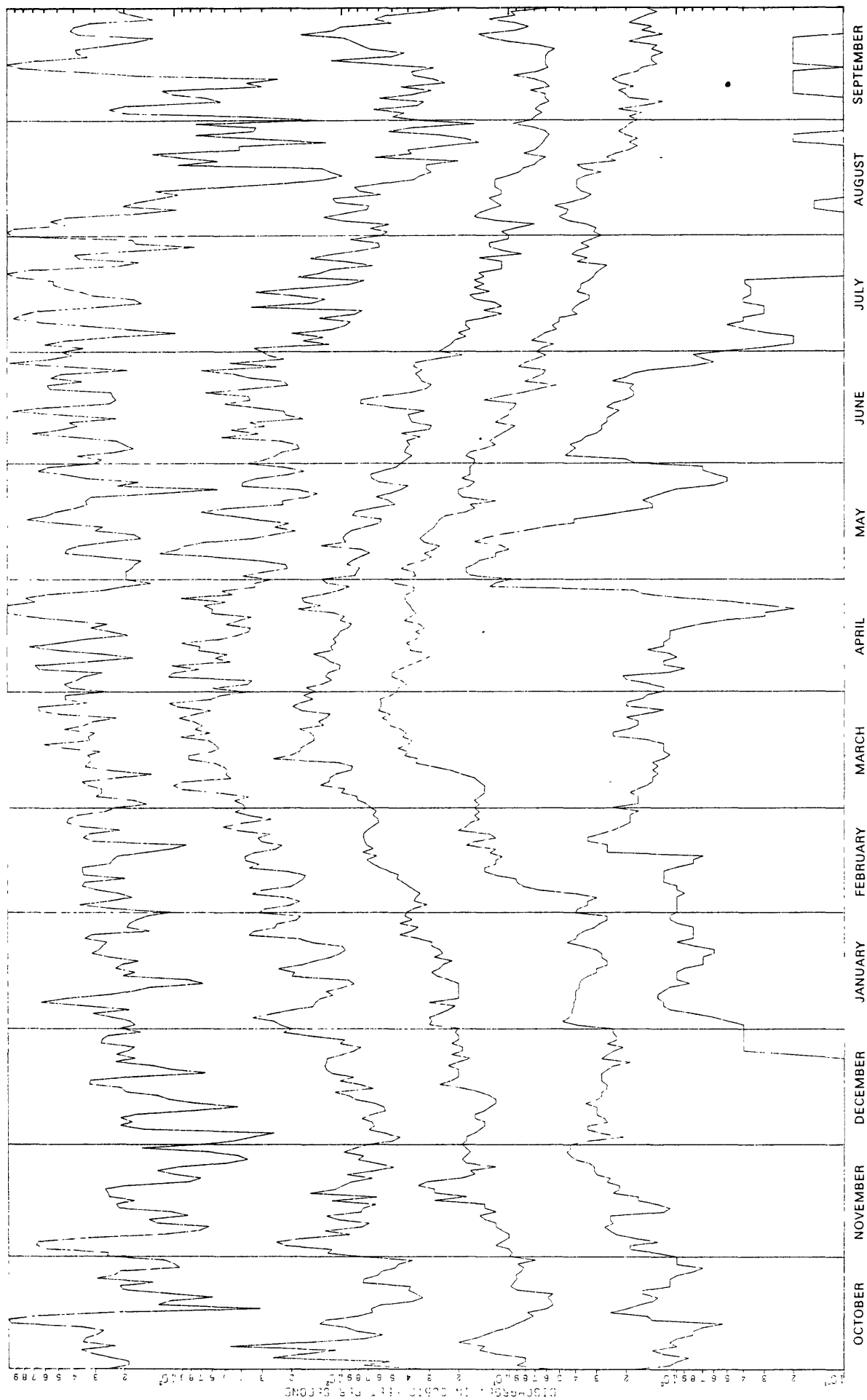
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 29YR PERIOD BEGINNING WATER YEAR 1941



MIDDLE FORK SALT RIVER AT PARIS, MO.

05505506

1941

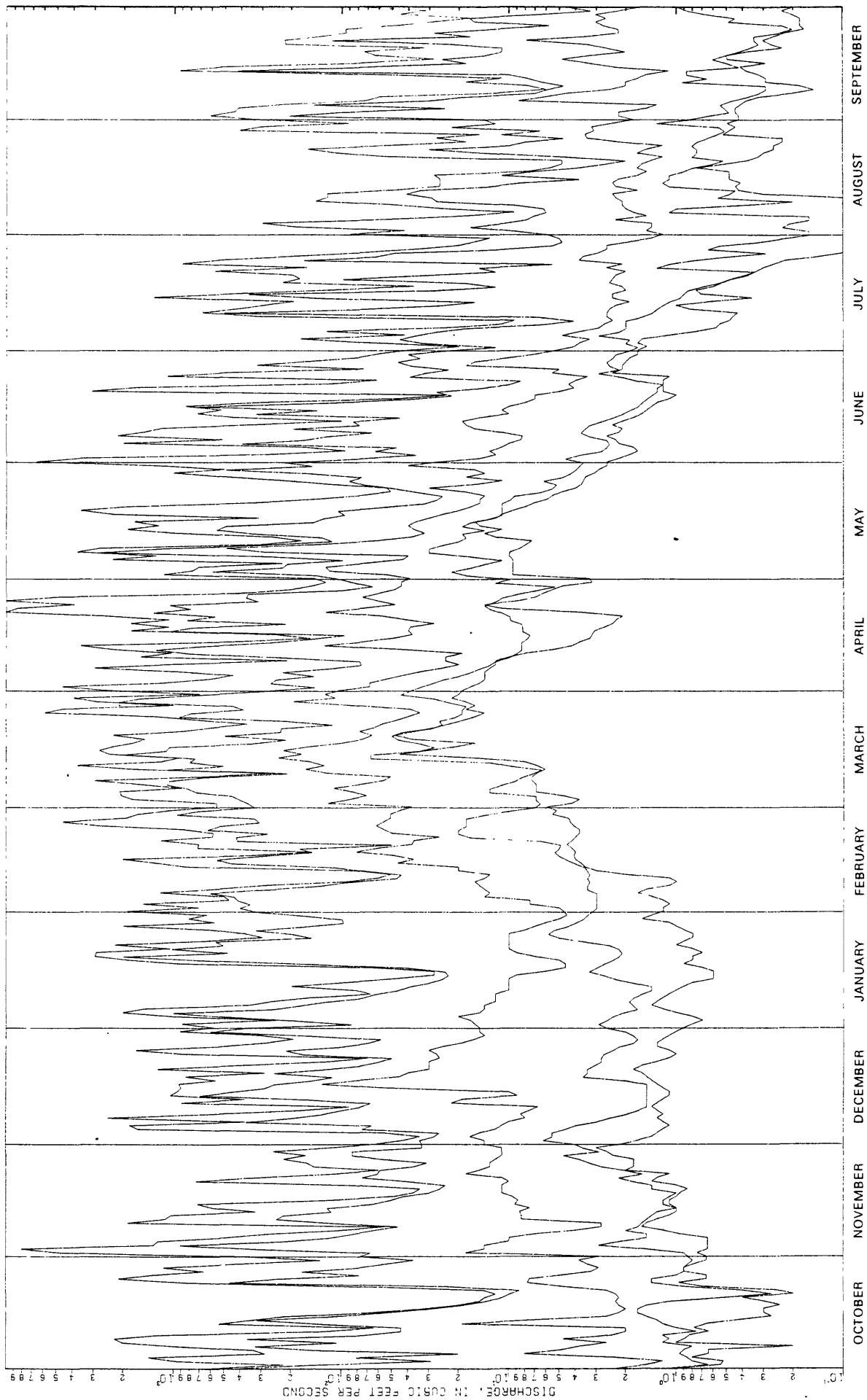


ELK FORK SALT RIVER NEAR MADISON, MO.

05506800

1971

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1971

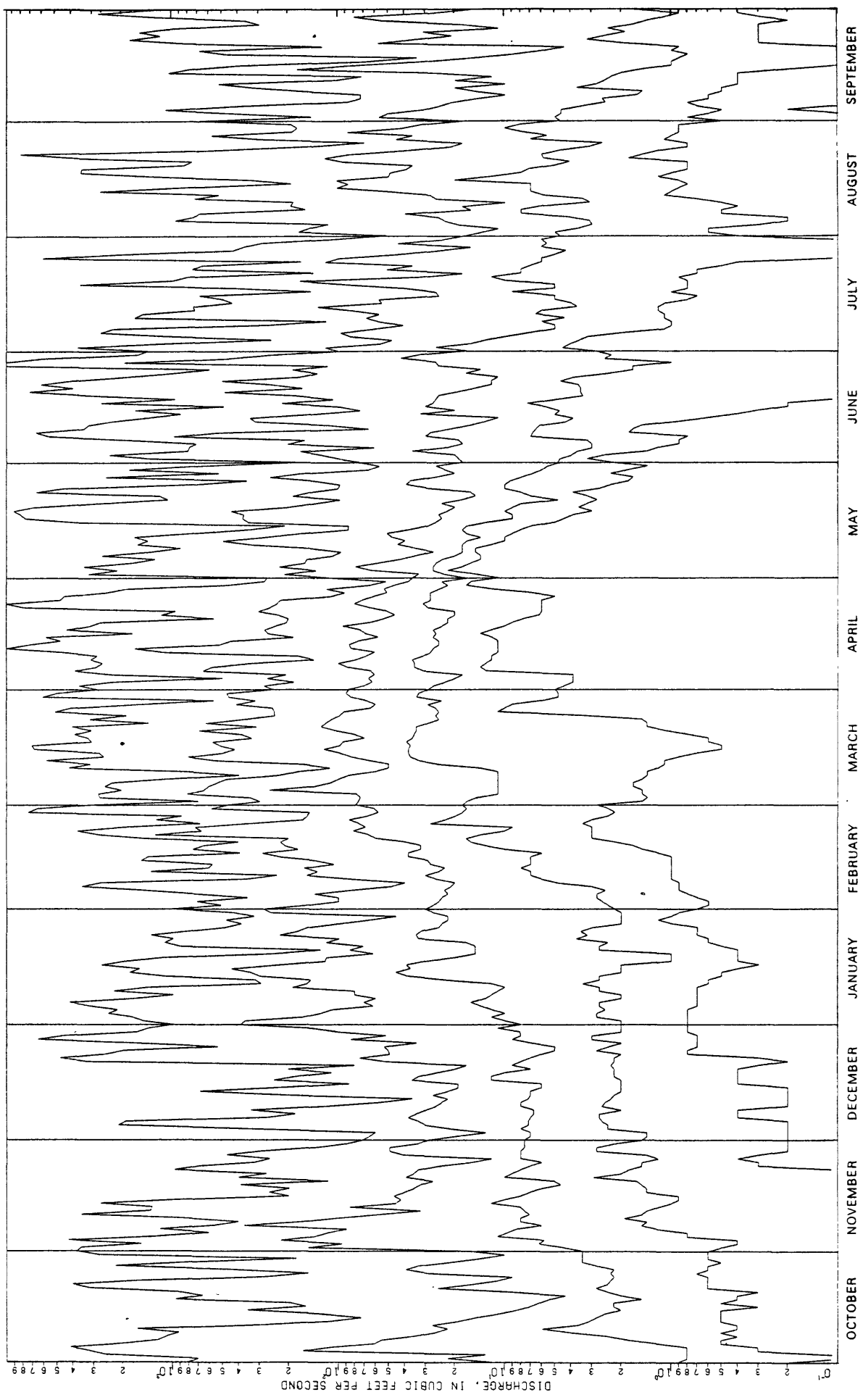


ELK FORK SALT RIVER NEAR PARIS, MO.

05507000

1936

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19R PERIOD BEGINNING WATER YEAR 1936

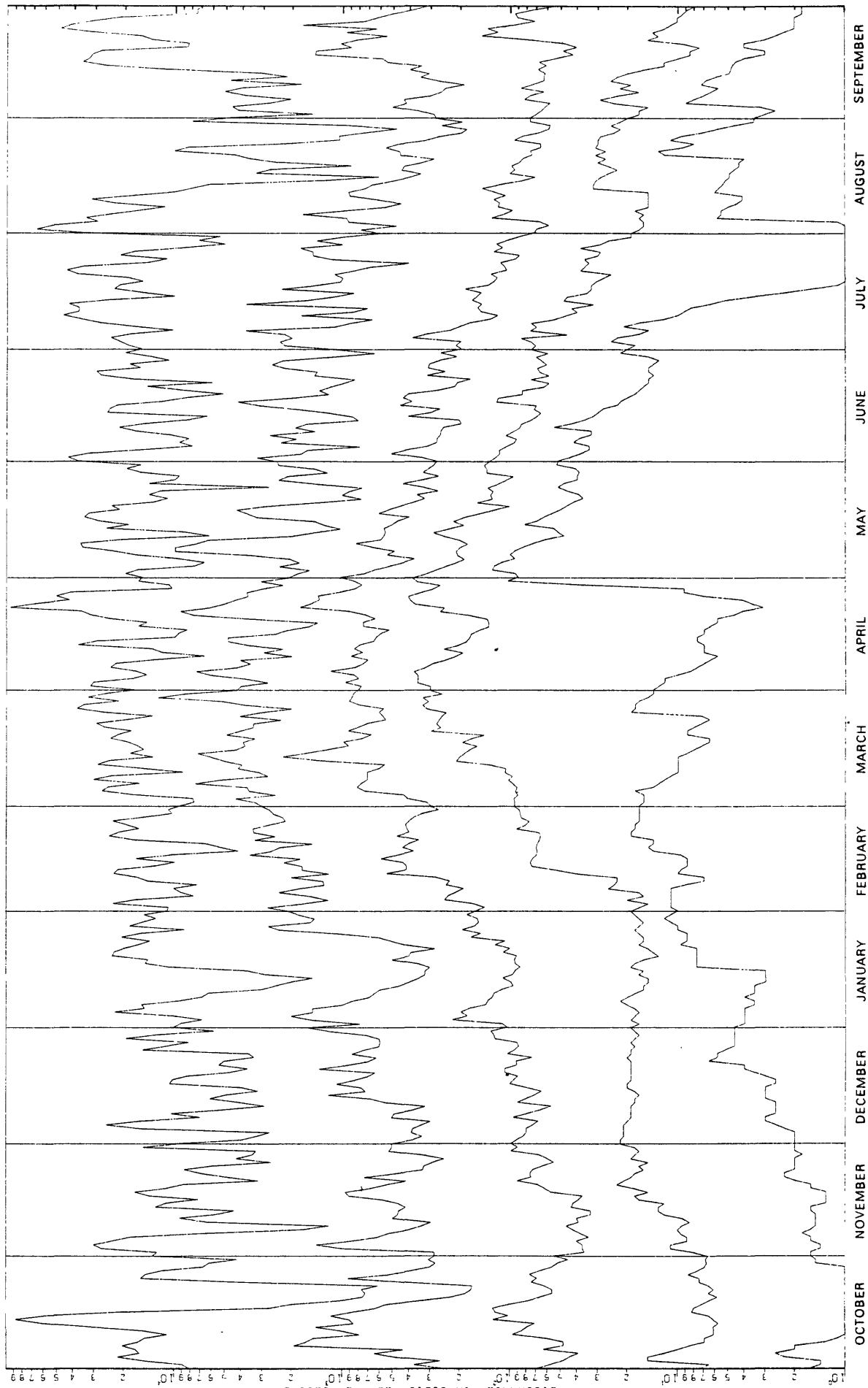


SALT RIVER NEAR MONROE CITY, MO.

05507500

1951

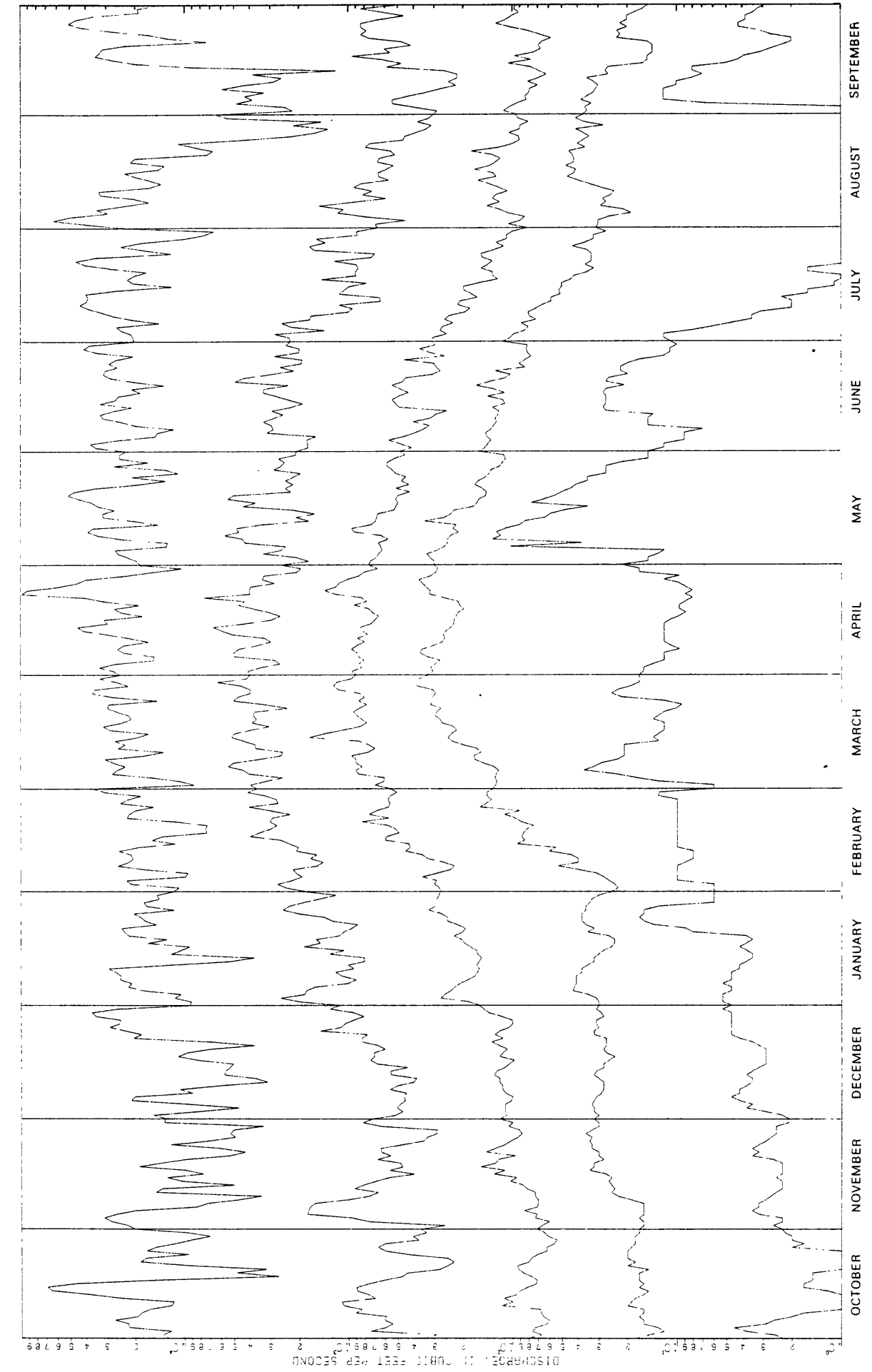
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 29 YR PERIOD BEGINNING WATER YEAR 1951



1931

05508000

SALT RIVER NEAR NEW LONDON, NC



DURATION HYDROGRAPH FIG. 1 - 0.20, 50, 80, 100 PERCENT EXCEEDANCE 40-YR PERIOD BEGINNING WATER YEAR 1931

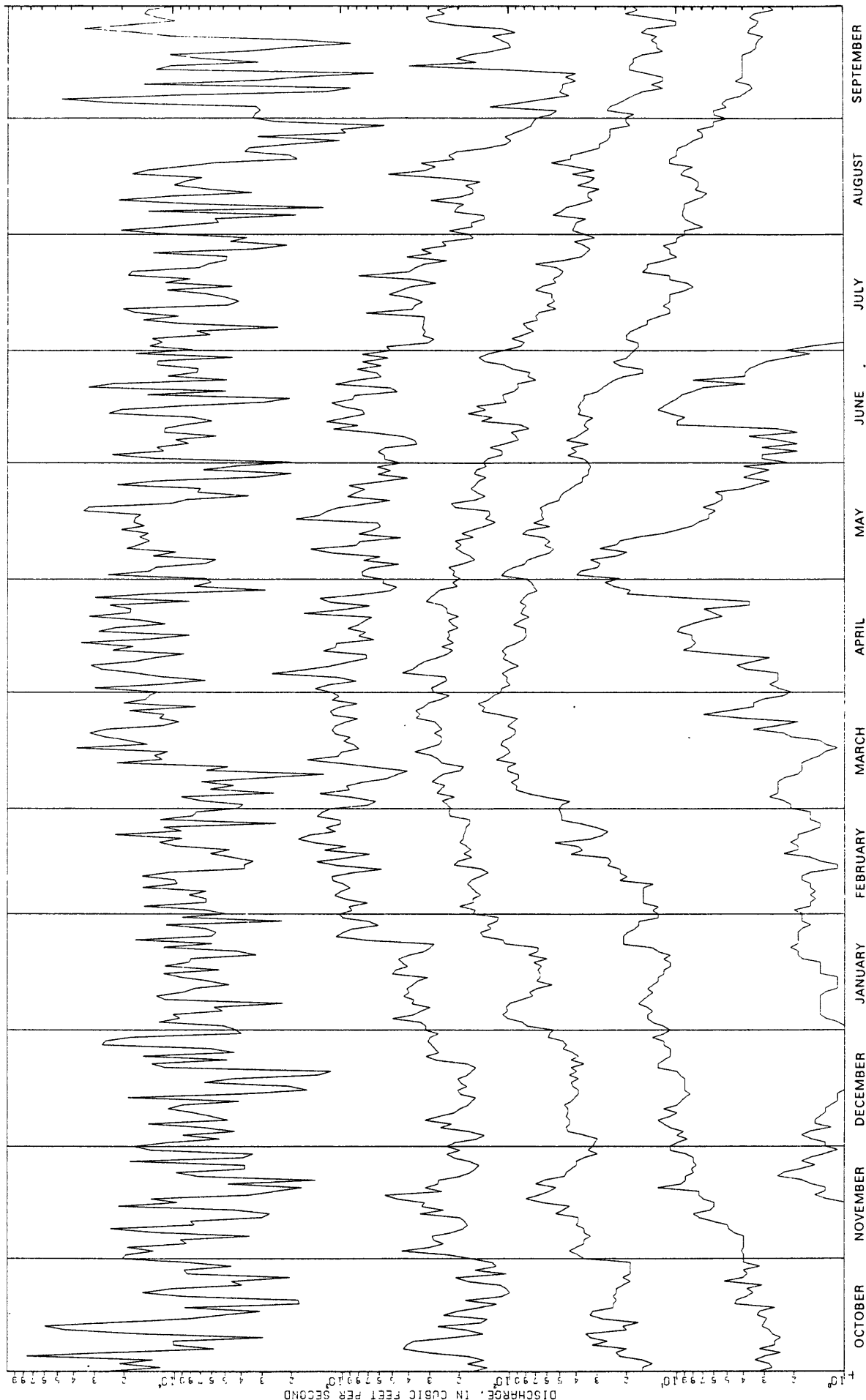
47

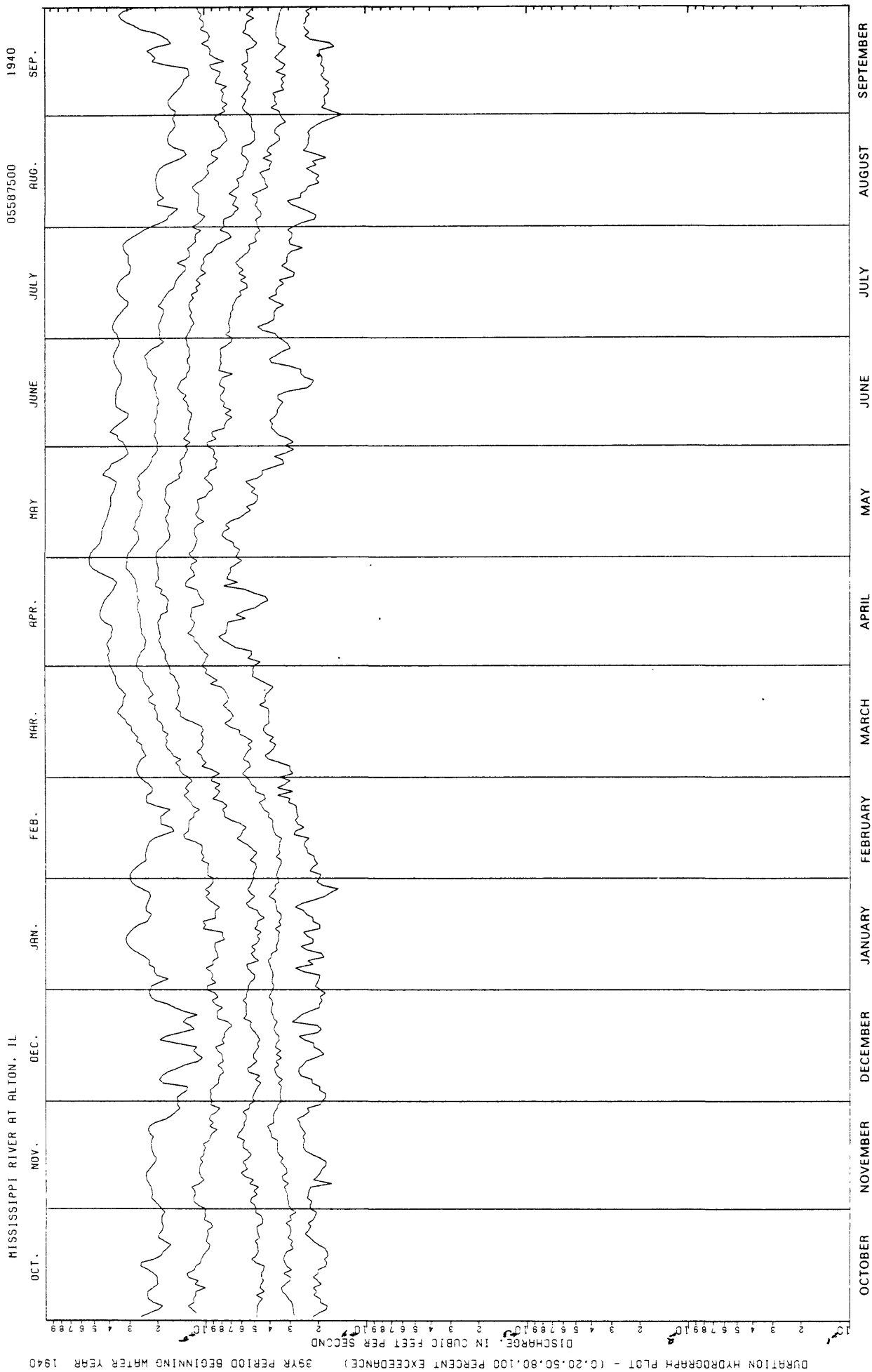
CUIVRE RIVER NEAR TROY, MO

05514500

1923

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1923



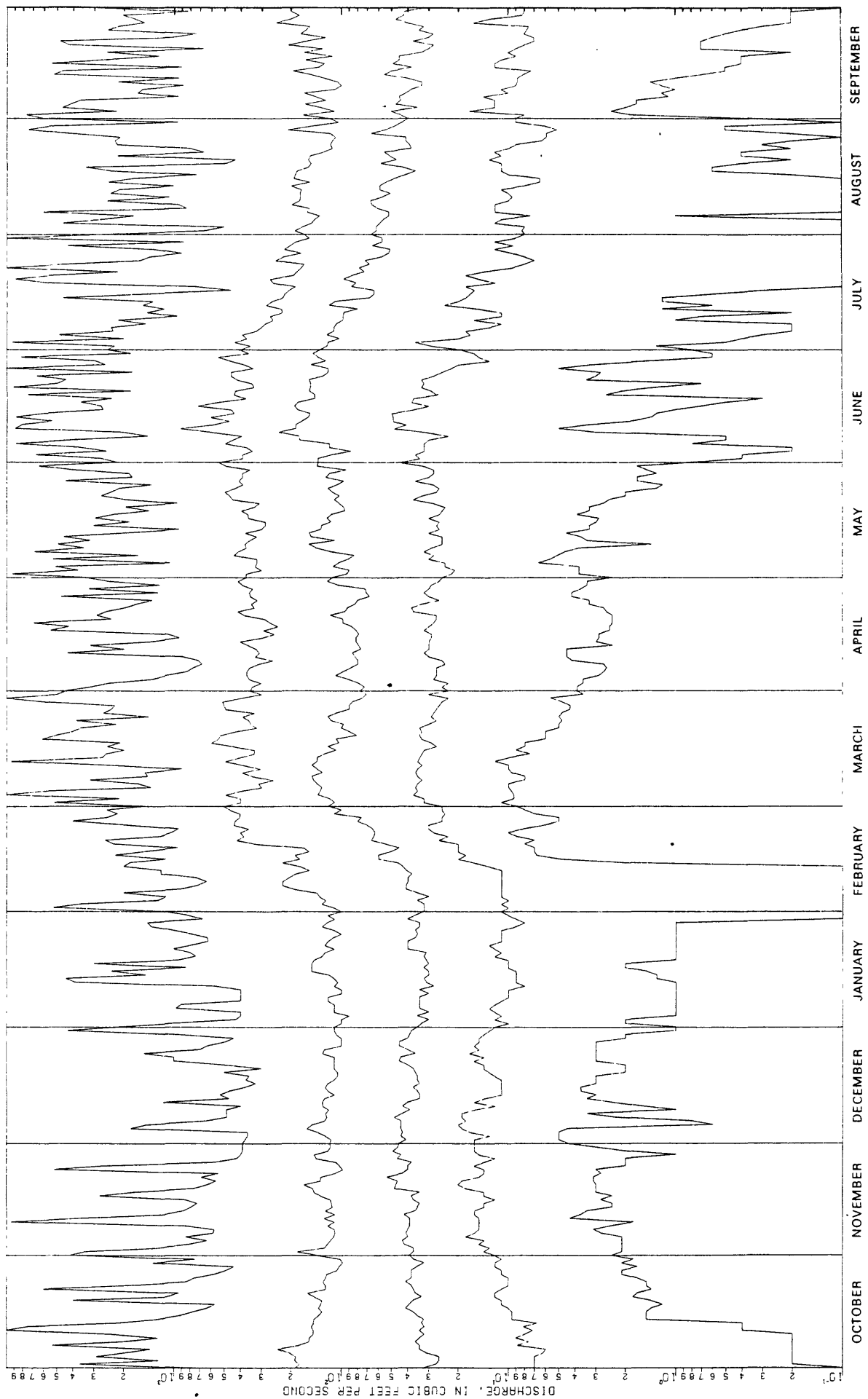


TARKIO RIVER AT FAIRFAX MO

06813000

1931

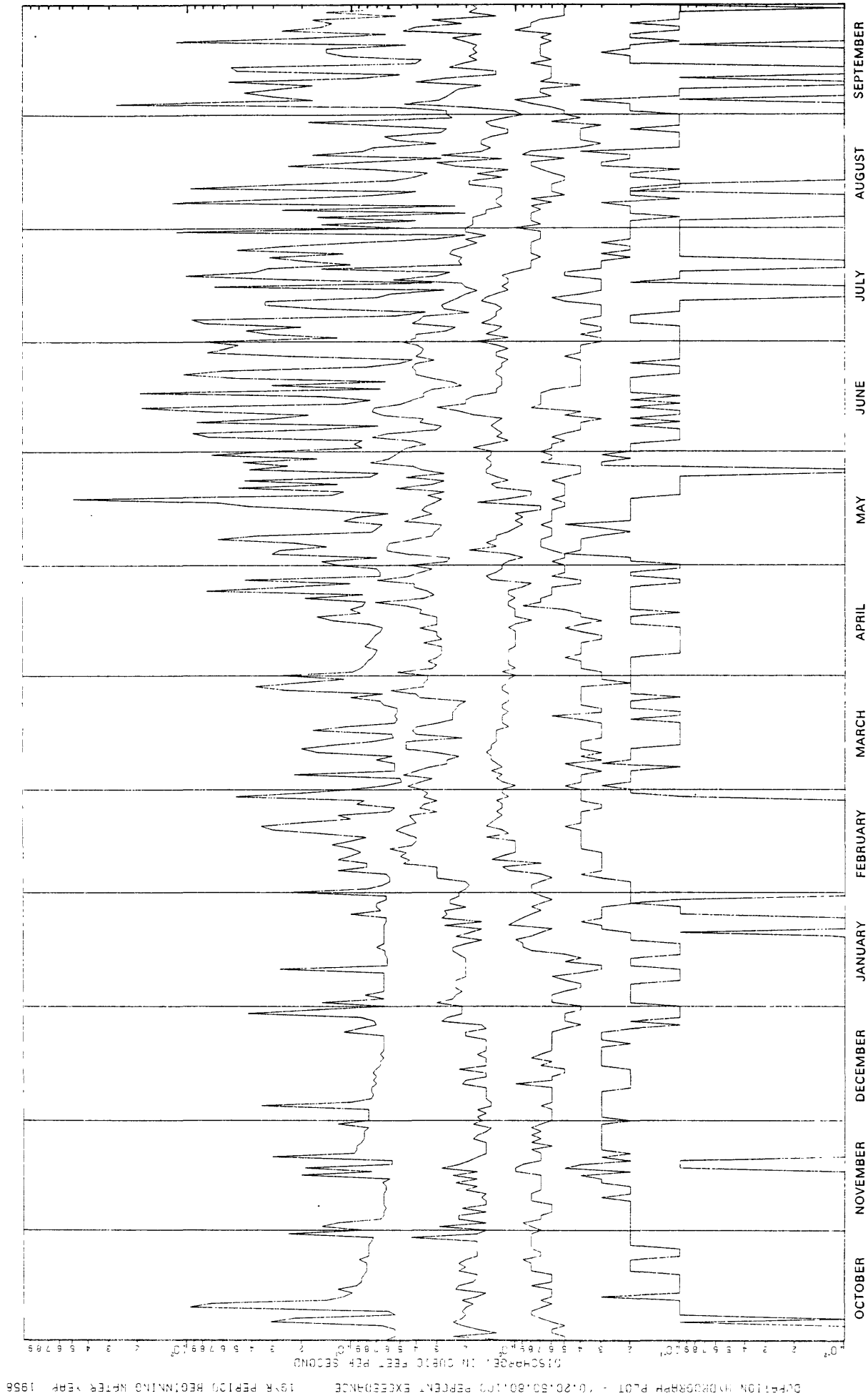
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931



MILL CREEK AT OREGON RD

06815000

1958

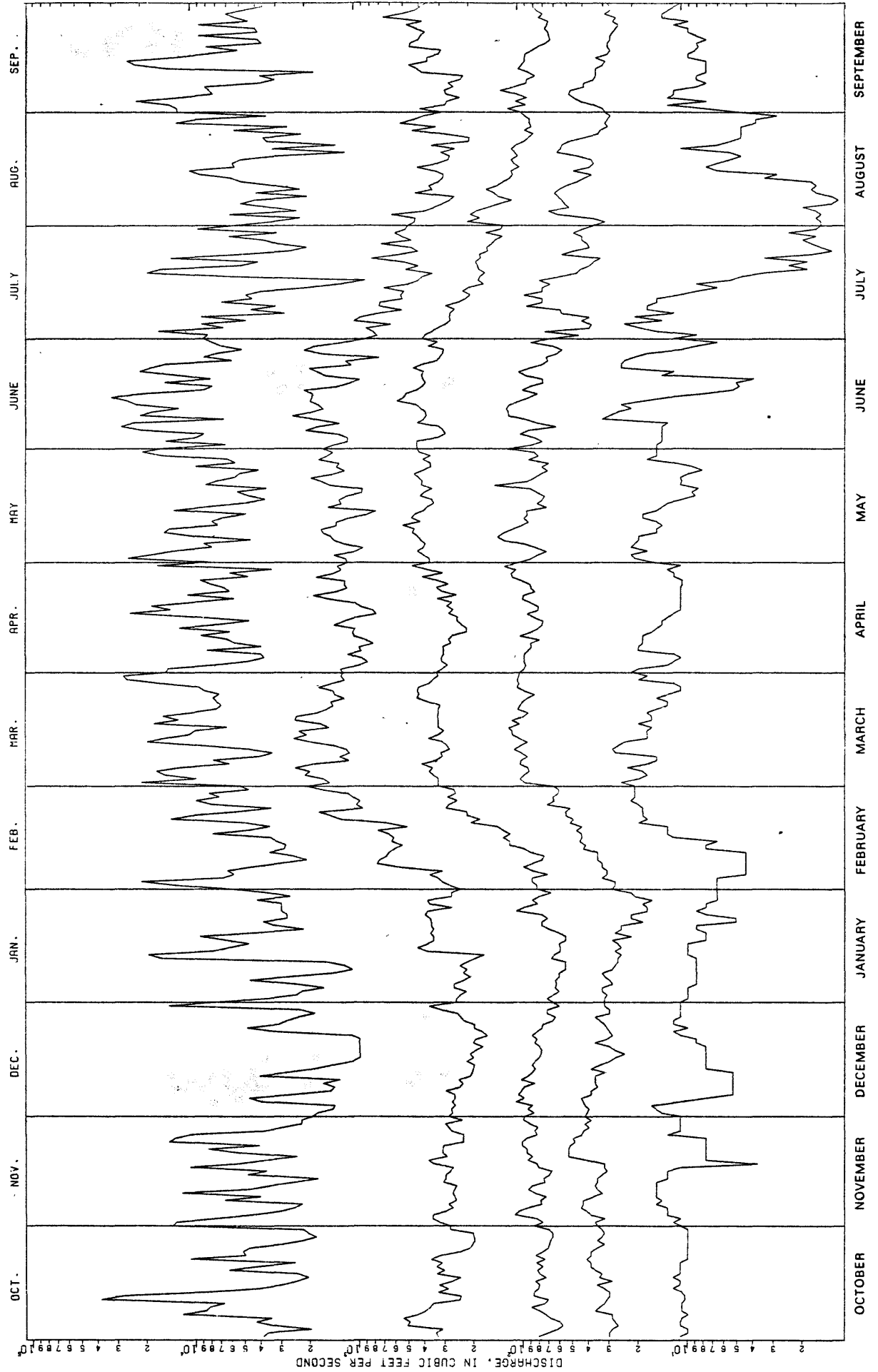


NODAWAY RIVER NEAR BURLINGTON JCT, MO

06817500

1930

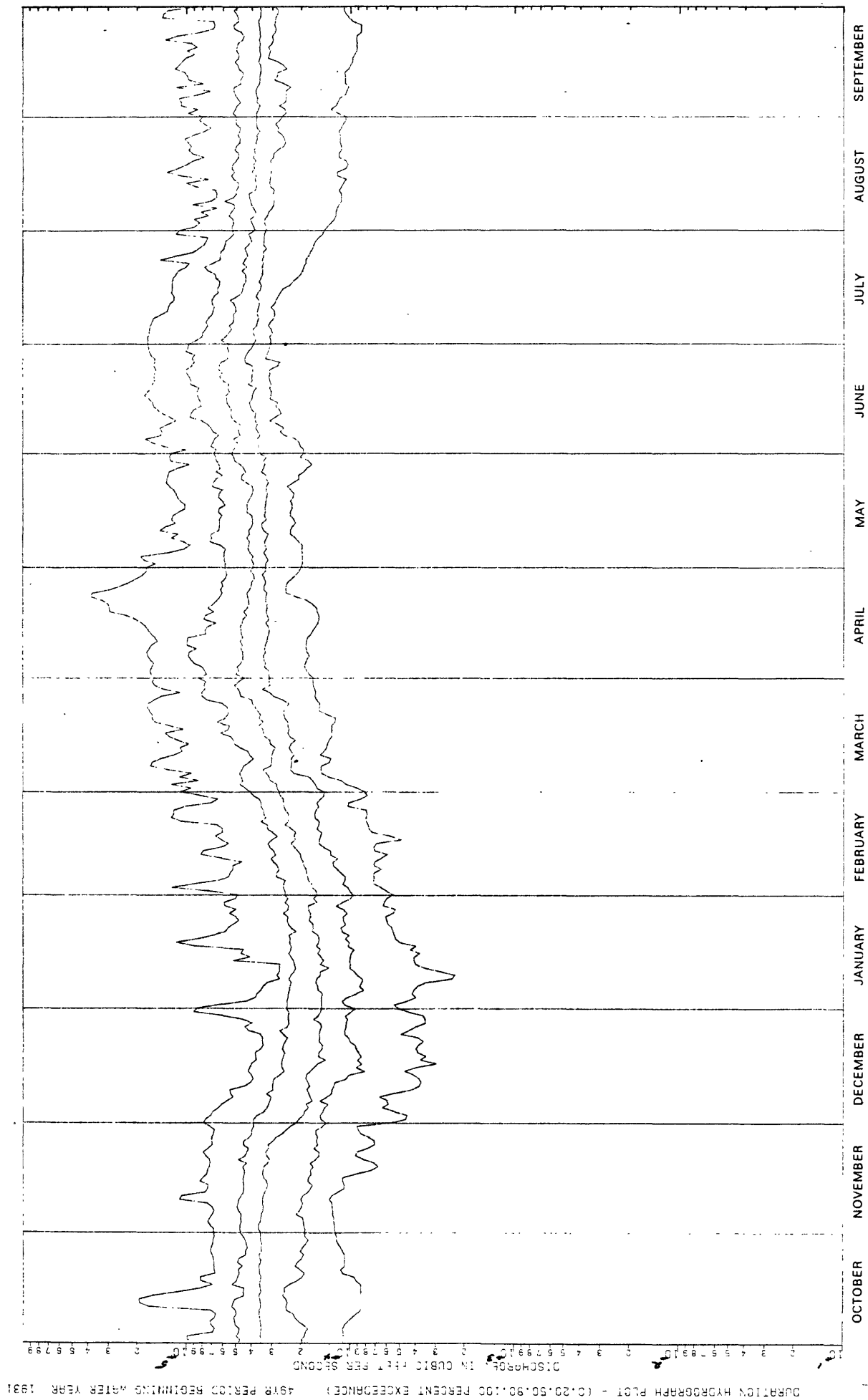
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1930



MISSOURI RIVER AT ST. JOSEPH, MO.

06518000

1931

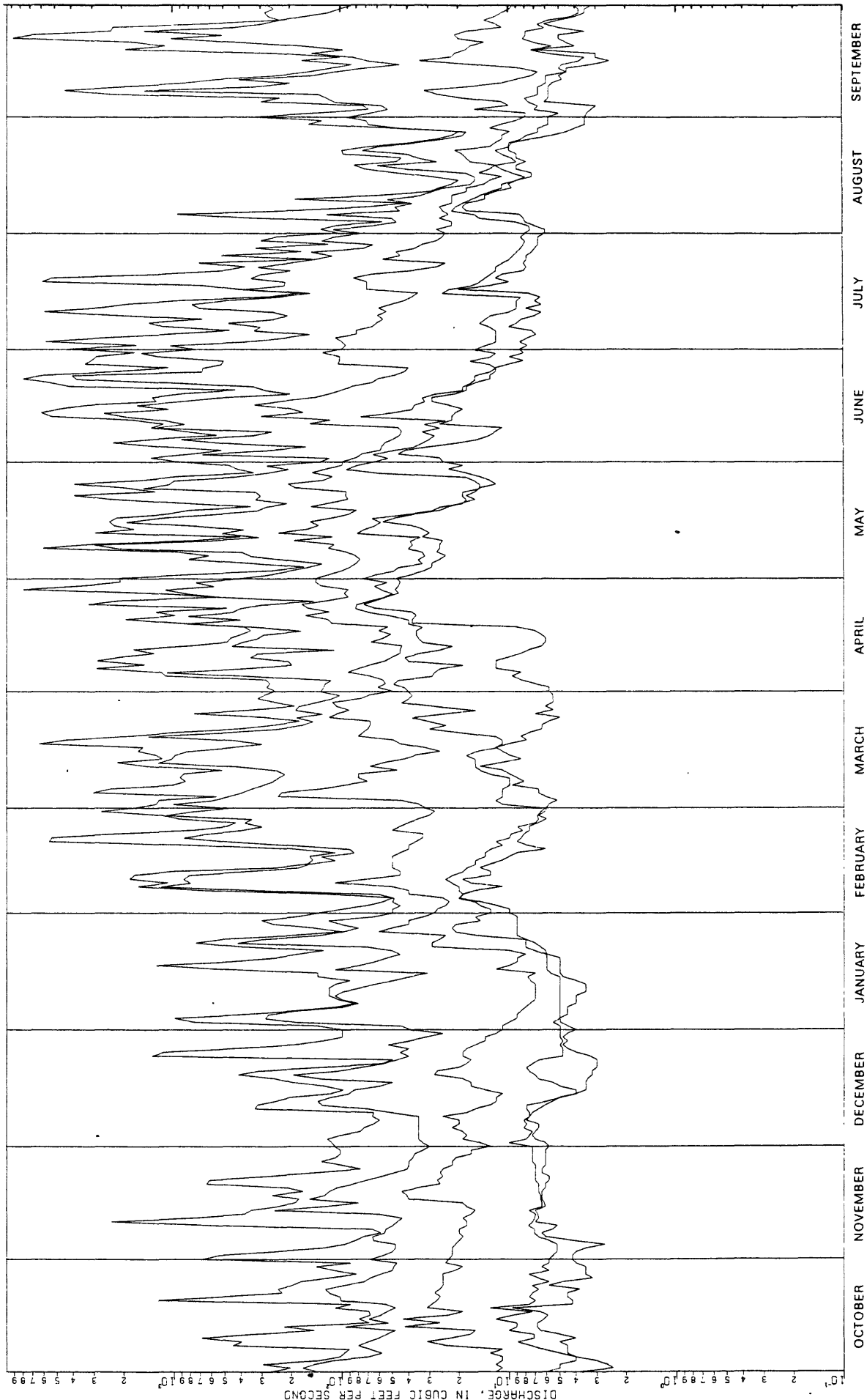


PLATTE R AT RAVENHOOB MO

06818900

1963

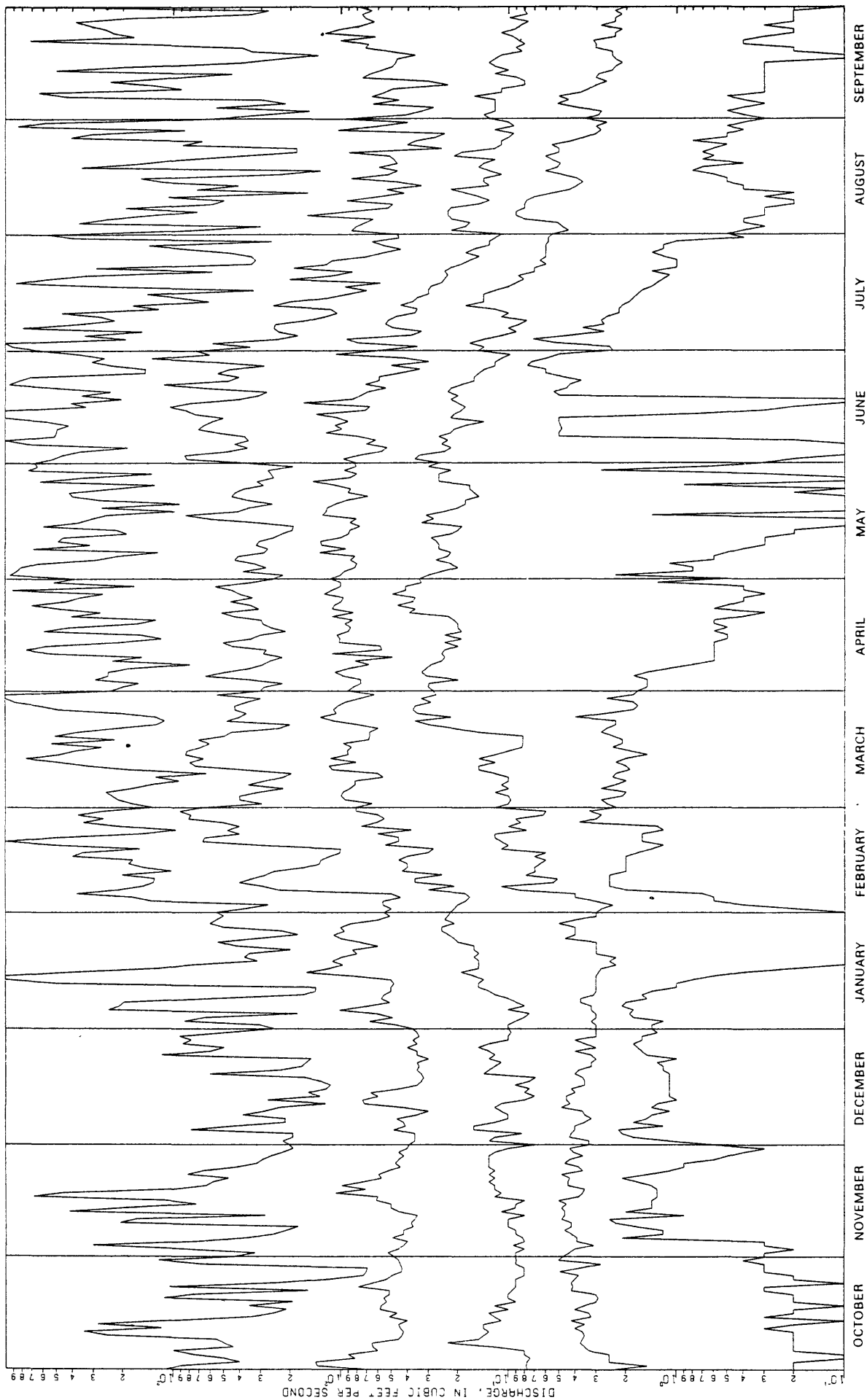
DURATION HYDROGRAPH PLCT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1963



1943

06819500

ONE HUNDRED AND TWO RIVER AT MARYVILLE MO



DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 29YR PERIOD BEGINNING WATER YEAR 1943

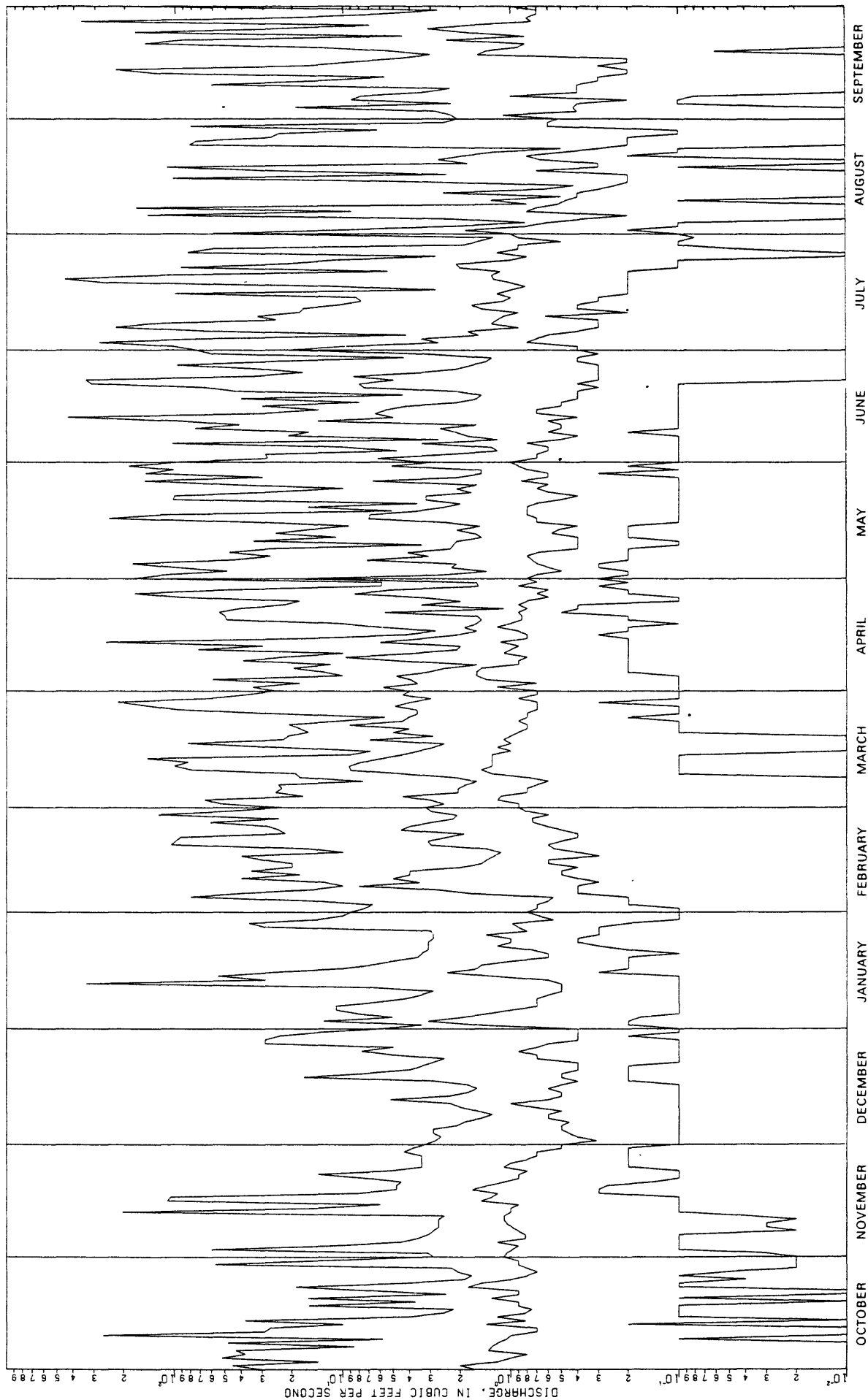
55

WHITE CLOUD CREEK NR MARYVILLE

06820000

1951

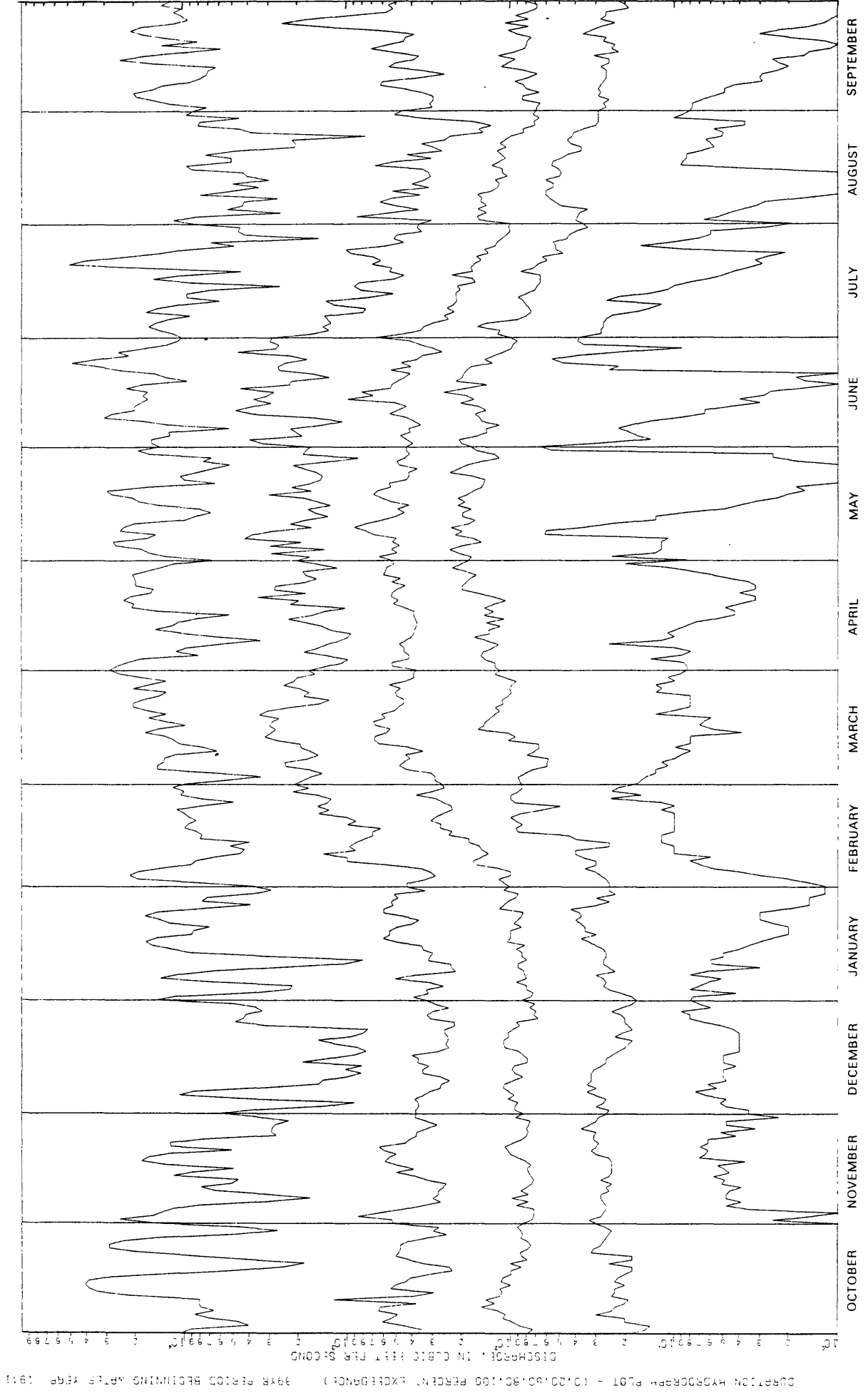
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1951



FLATIE RIVER NEAR AGENCY, MO.

06820500

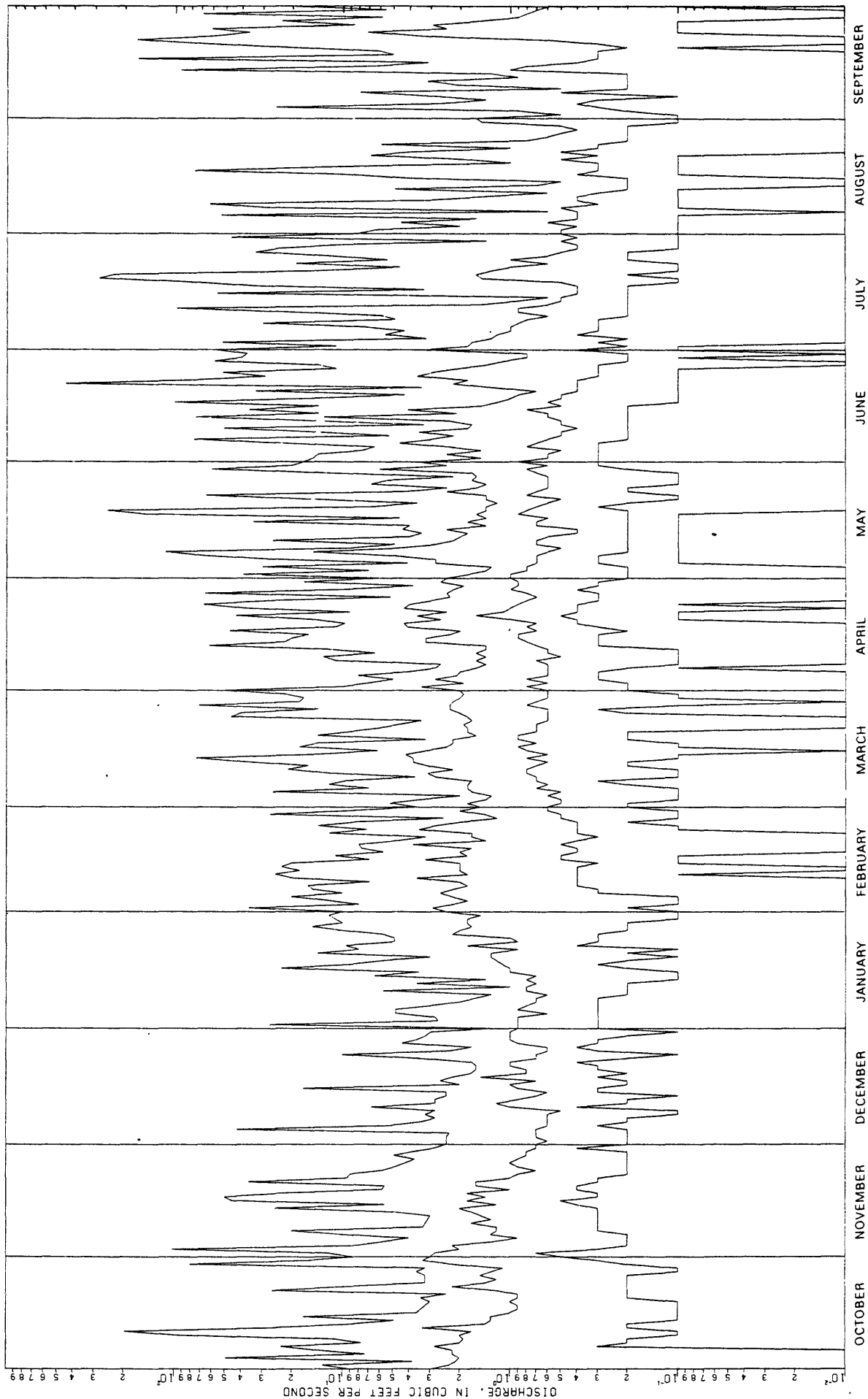
1941



06821000 1958

JENKINS BRANCH AT GOKER MD

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1958

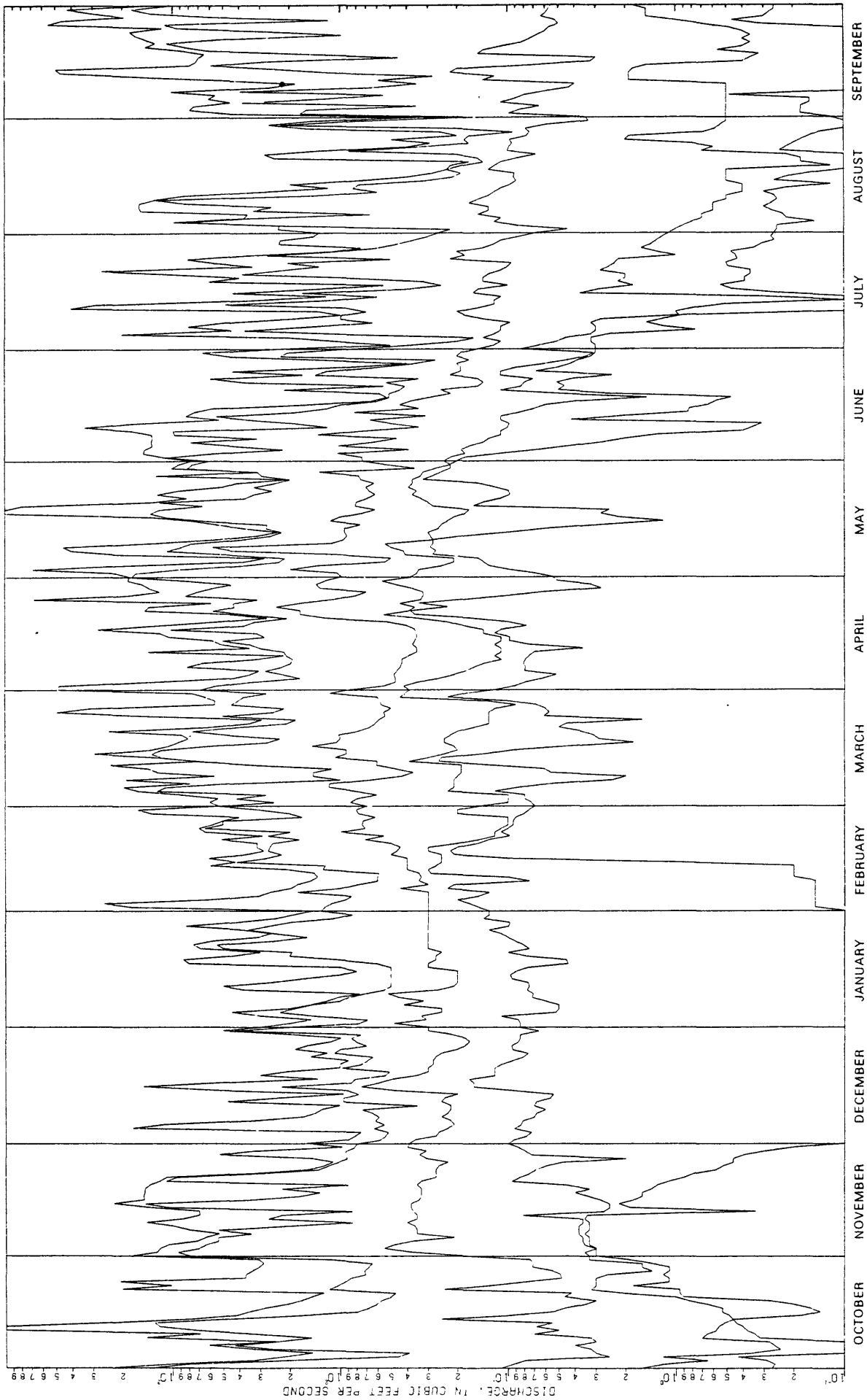


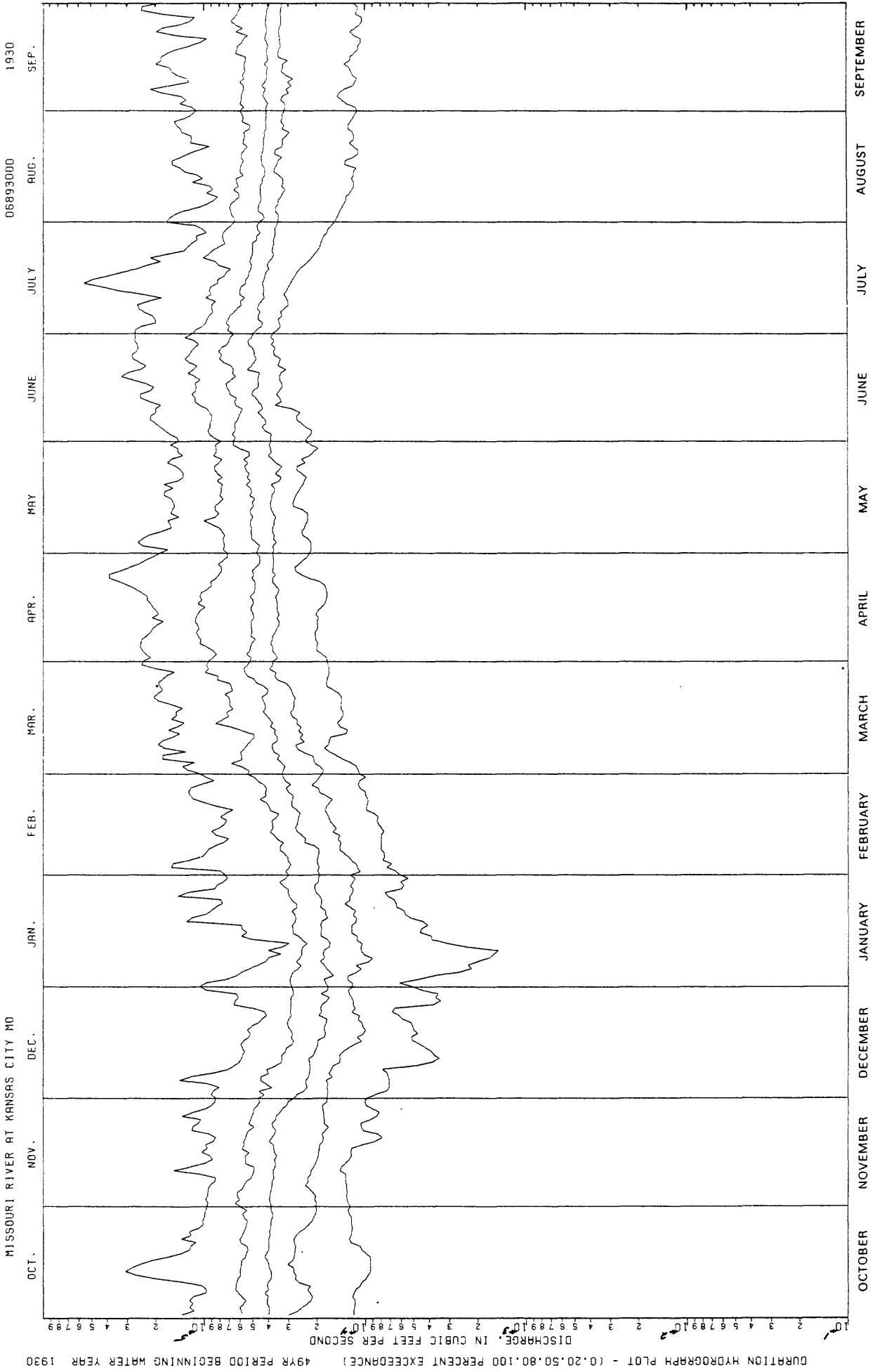
LITTLE PLATTE RIVER AT SMITHVILLE, MO.

G6821150

1971

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1971



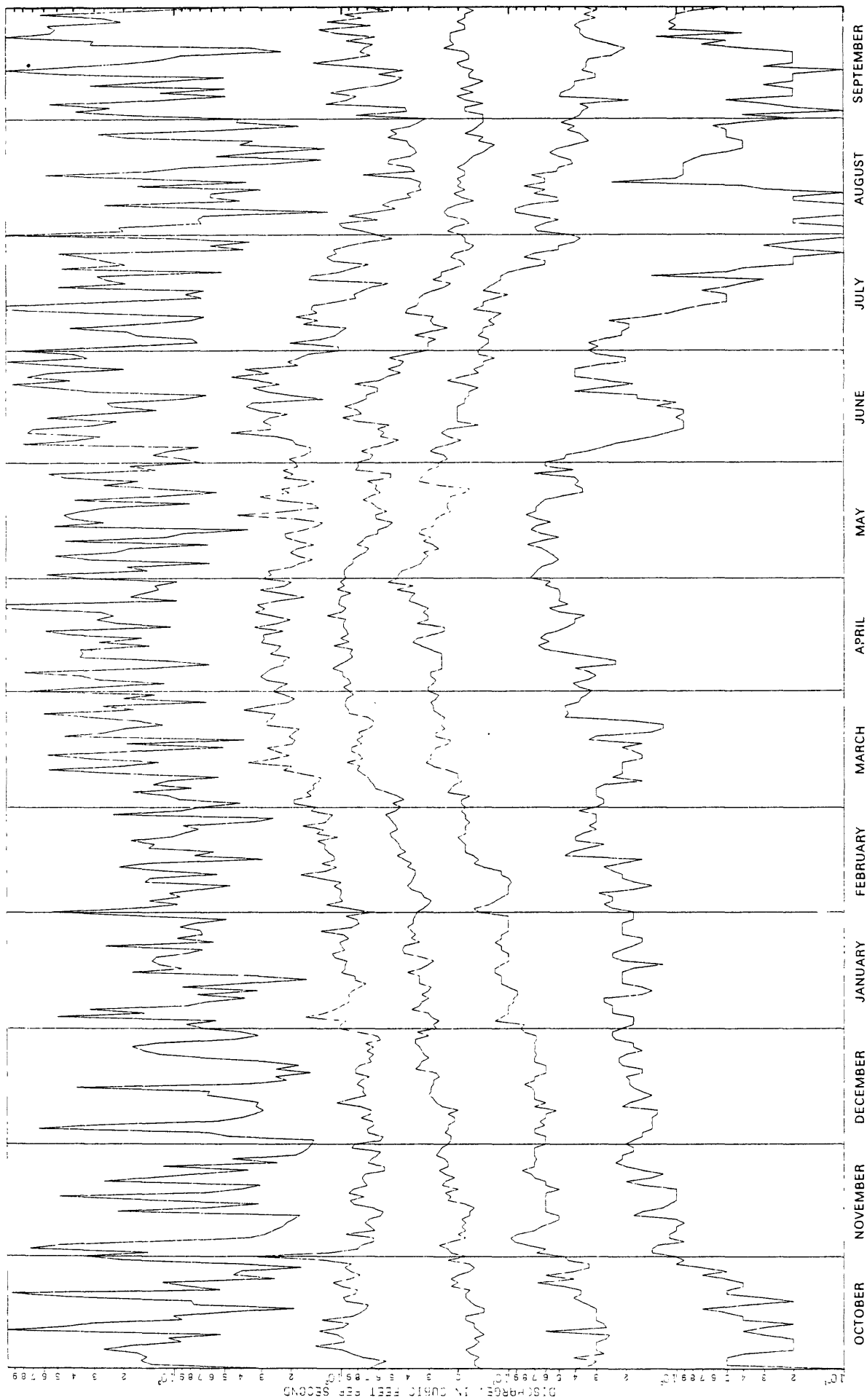


BLUE RIVER NEAR KANSAS CITY, MO.

05893500

1941

DUPATION HYDROGRAPH PLOT - (0.00-50.00 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941



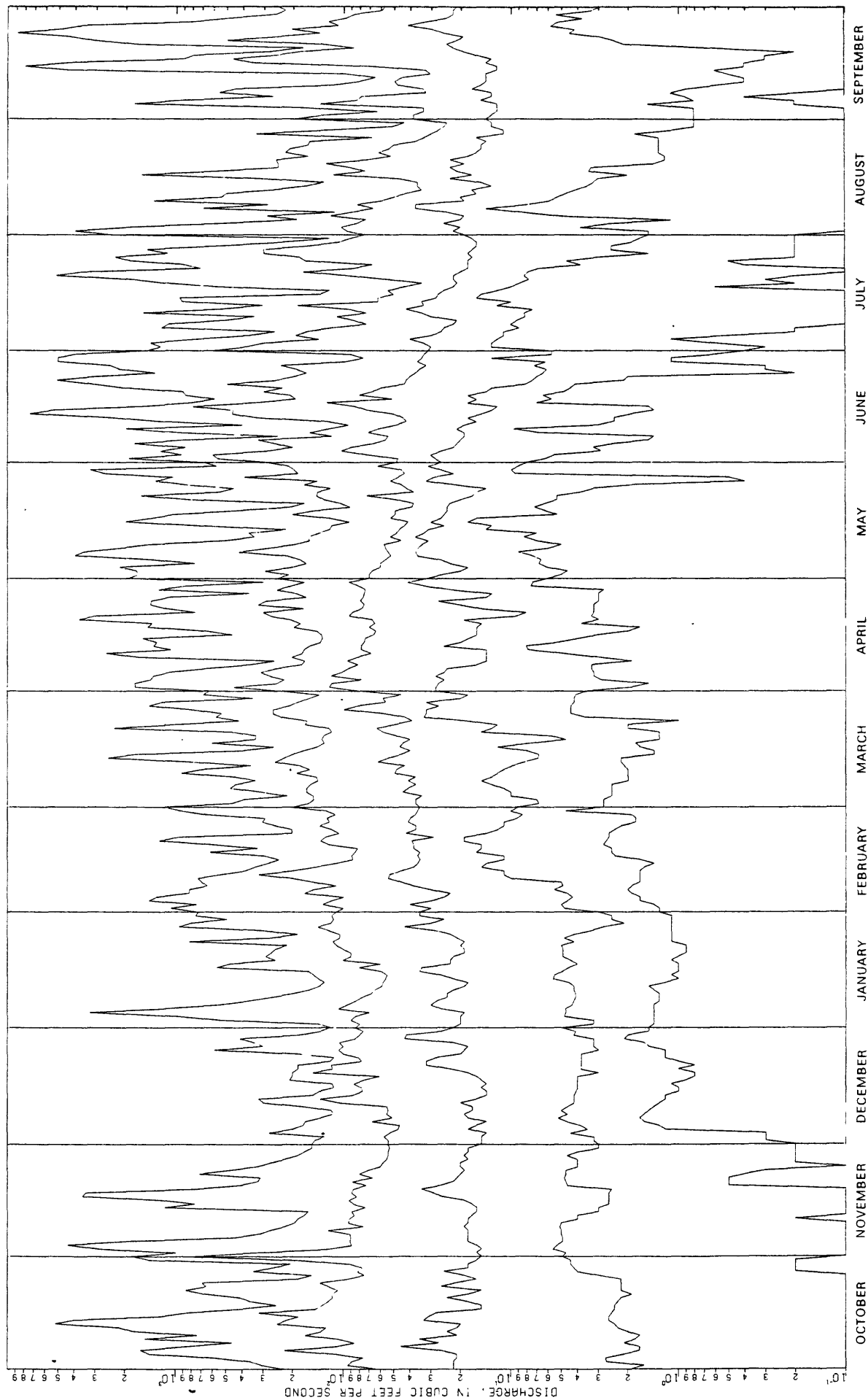
61

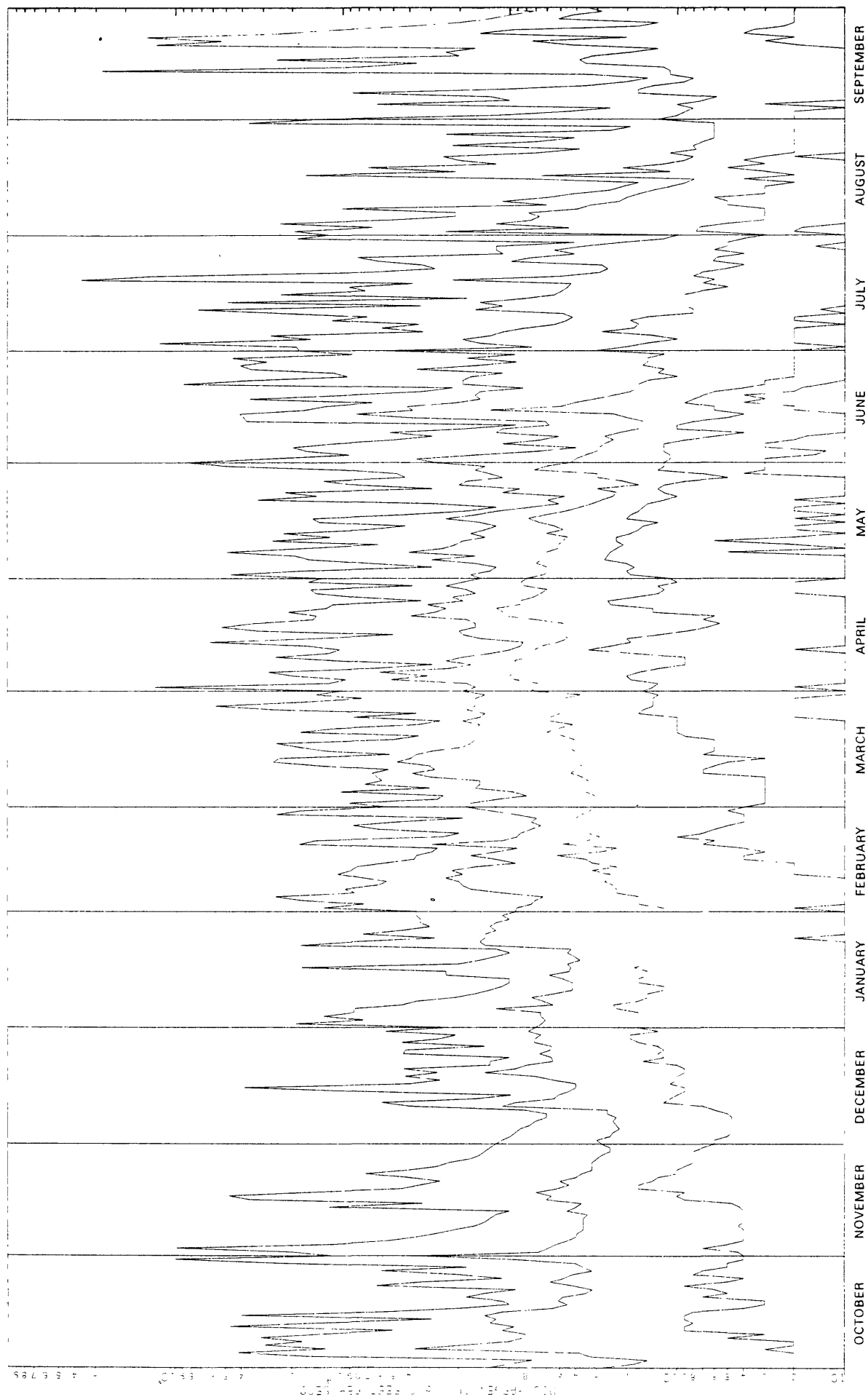
LITTLE BLUE RIVER NEAR LAKE CITY, MO

66894000

1953

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1953



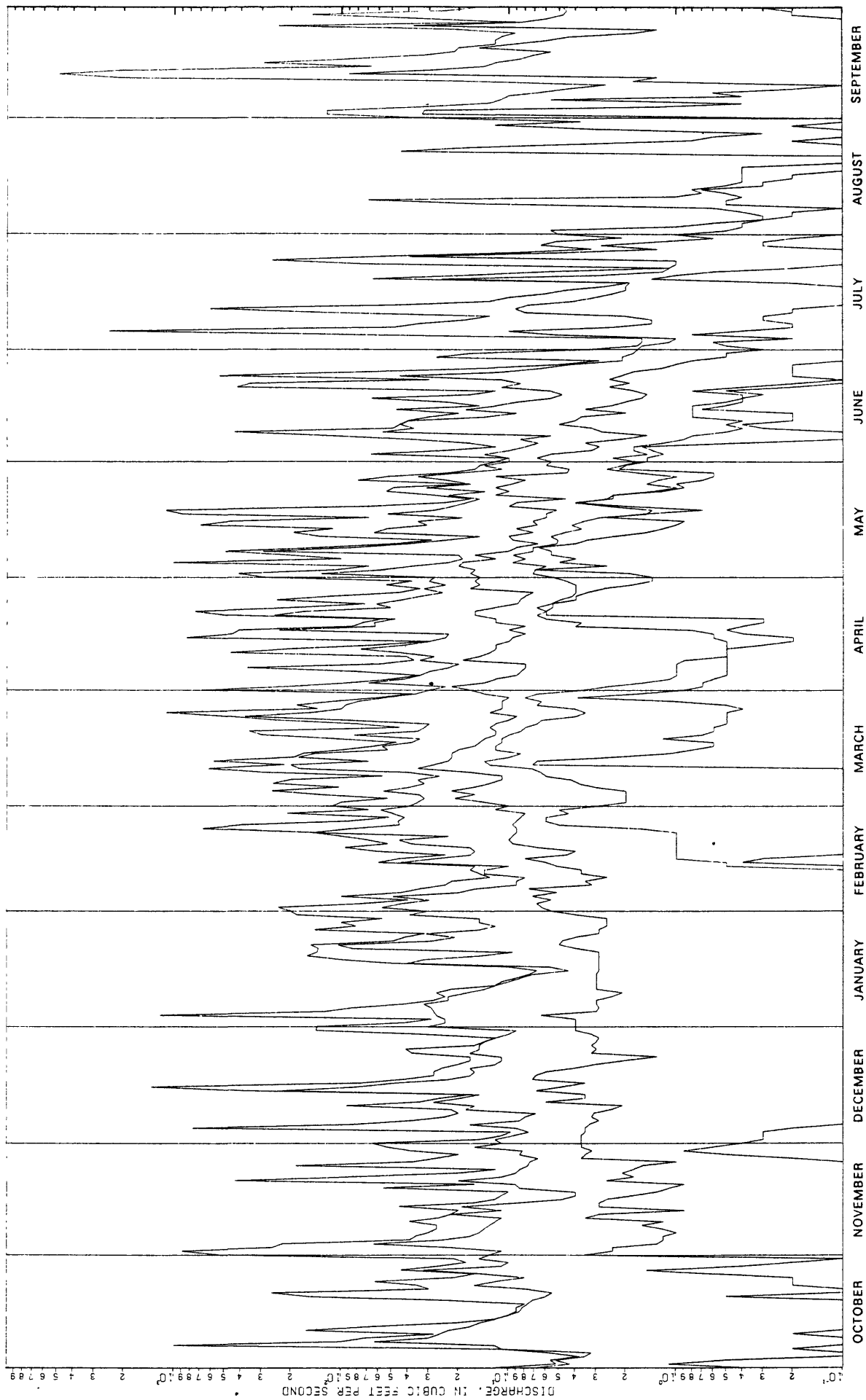


1971

06894680

SWIABOR CREEK NEAR IARSNEY MO

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1971

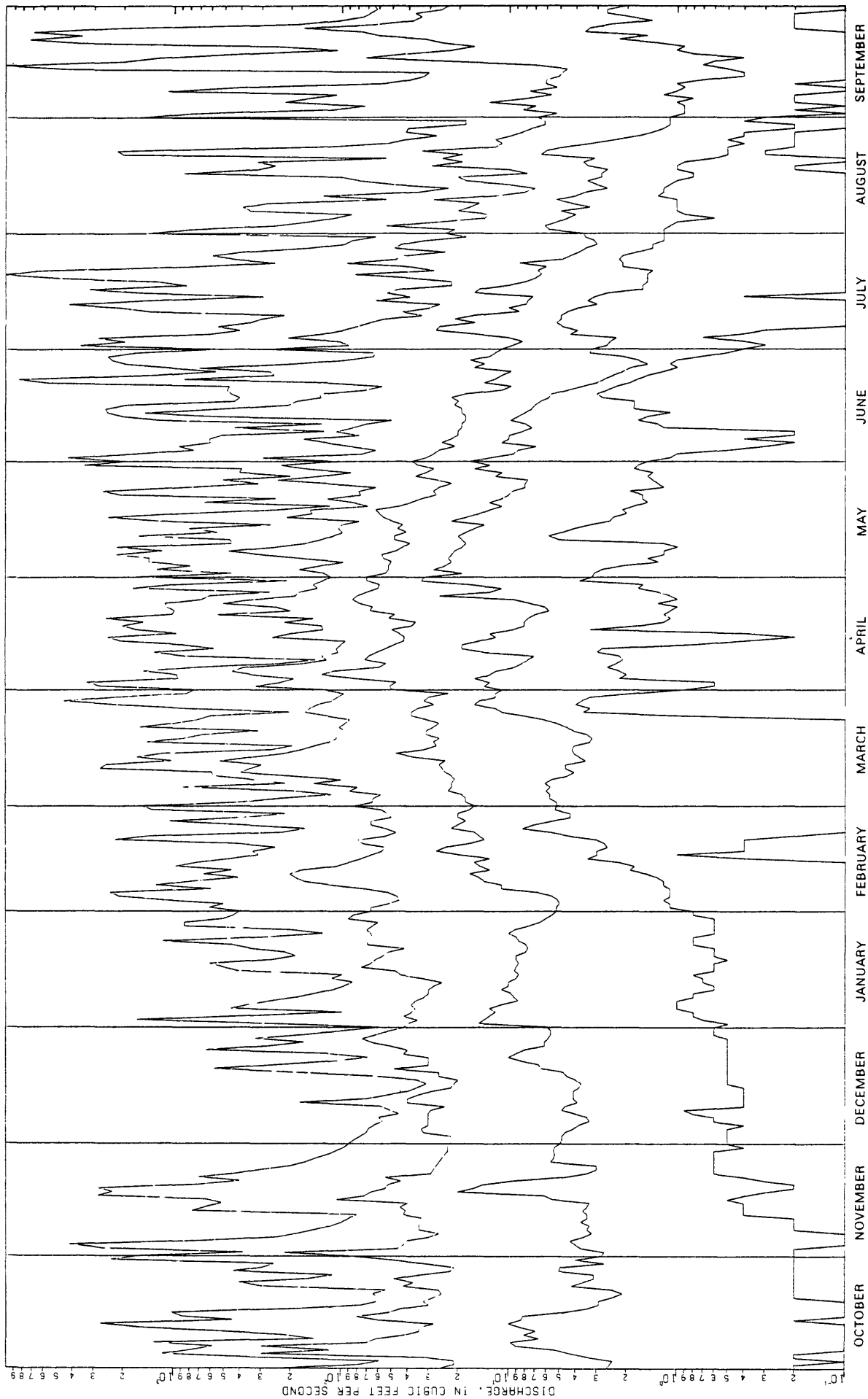


CROOKED RIVER NEAR RICHMOND, MO.

06895000

1952

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 1919 PERIOD BEGINNING WATER YEAR 1952

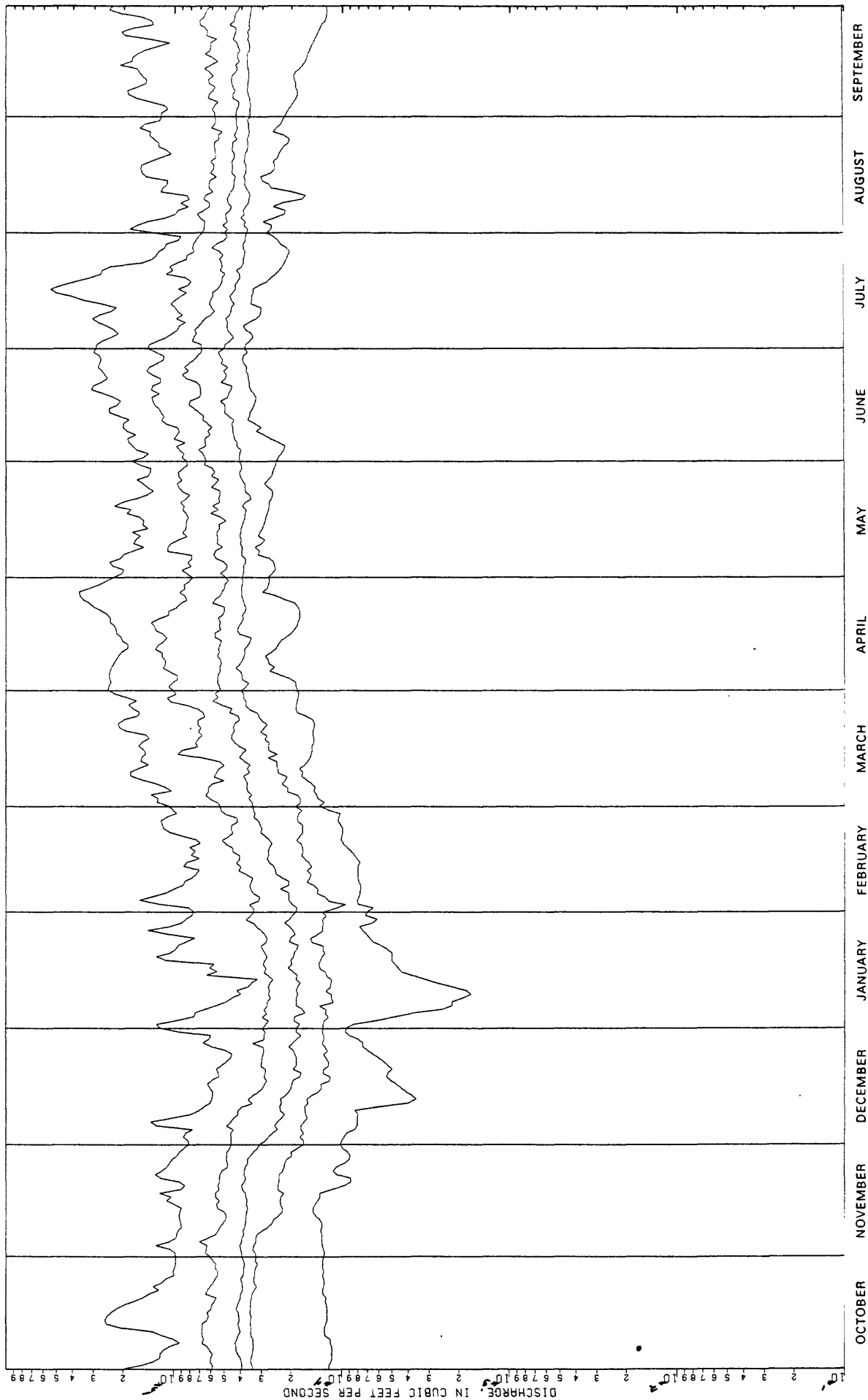


MISSOURI RIVER AT WAVERLY MO

06895500

1938

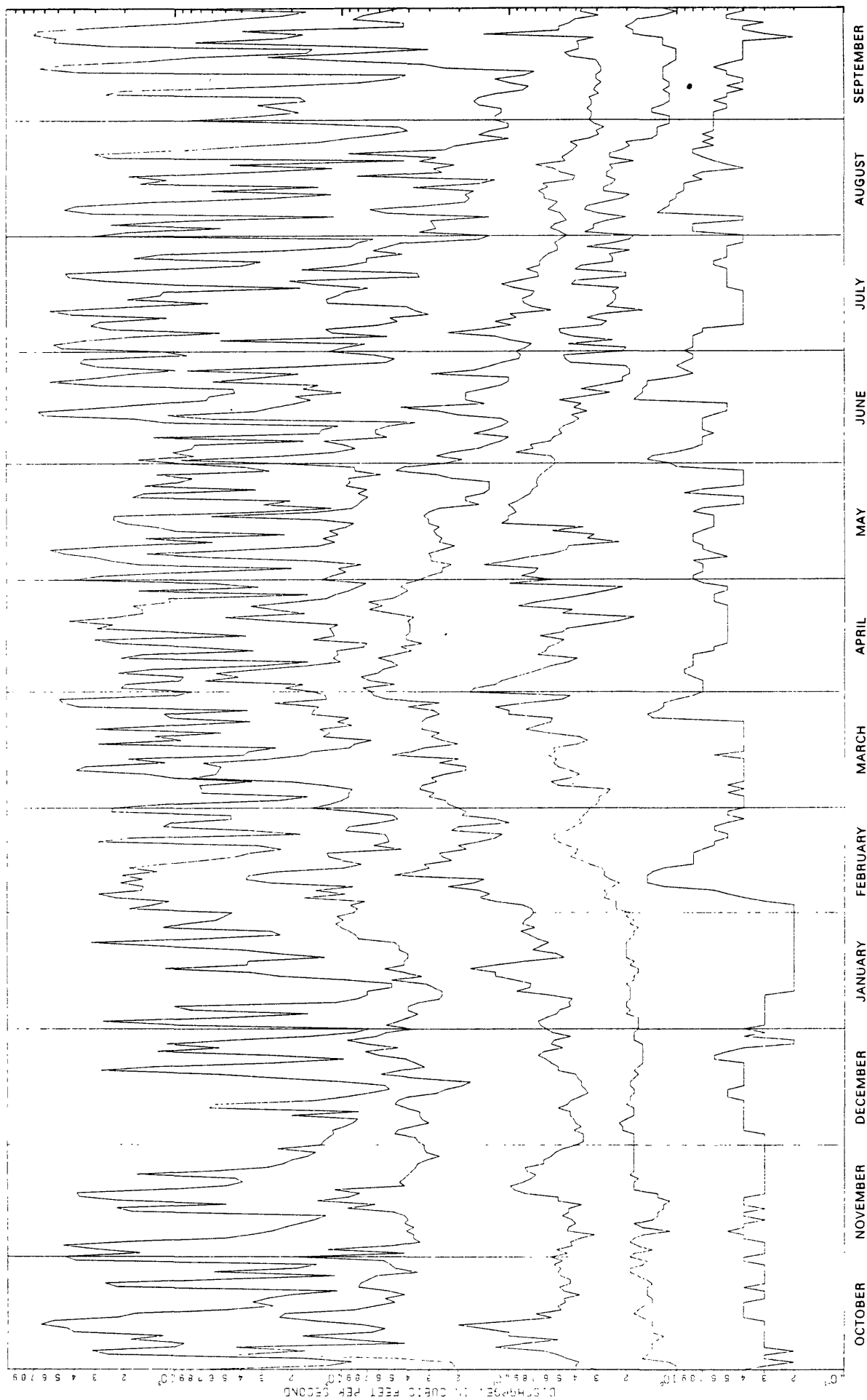
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1938



1952

06896000

WAKENDA CREEK AT CARROLLTON, MO.

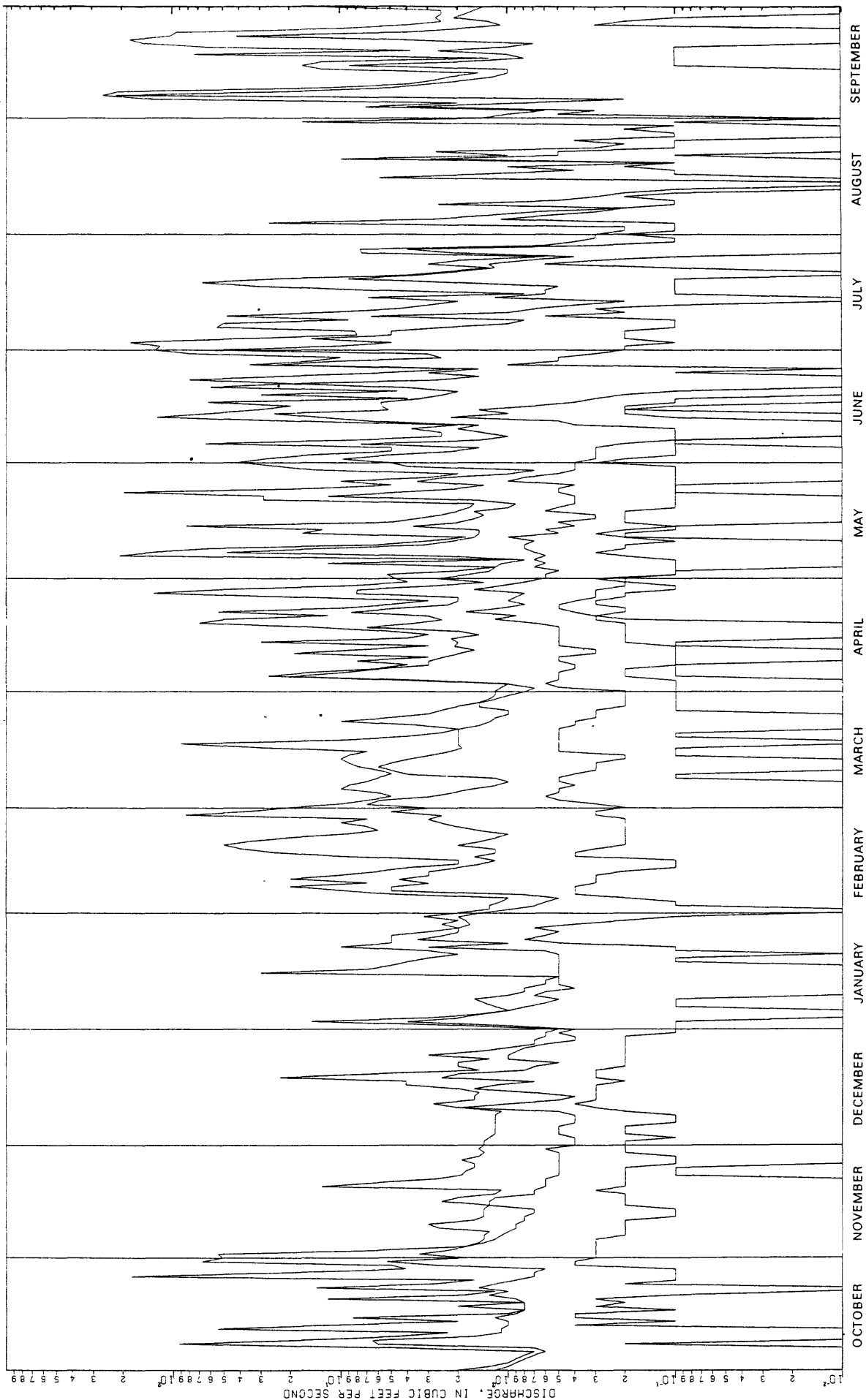


DURATION HYDROGRAPH PLOT - 10.20.60.80.100 PERCENT EXCEEDANCE 1976 PERIOD BEGINNING WATER YEAR 1952

THOMPSON BRANCH NEAR ALBANY MO

06896500

1964

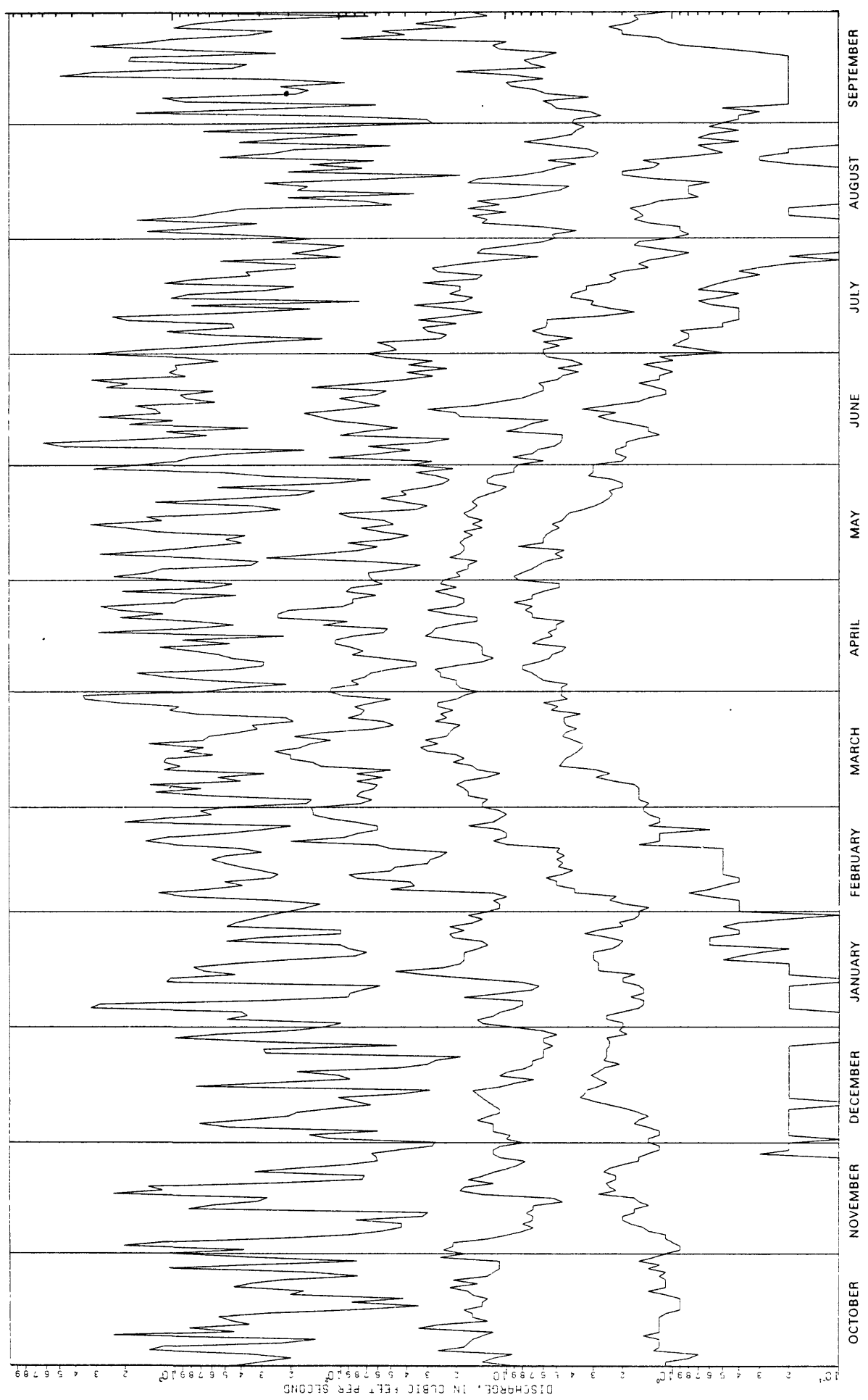


OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER

EAST FORK BIG CREEK NEAR BETHANY MO

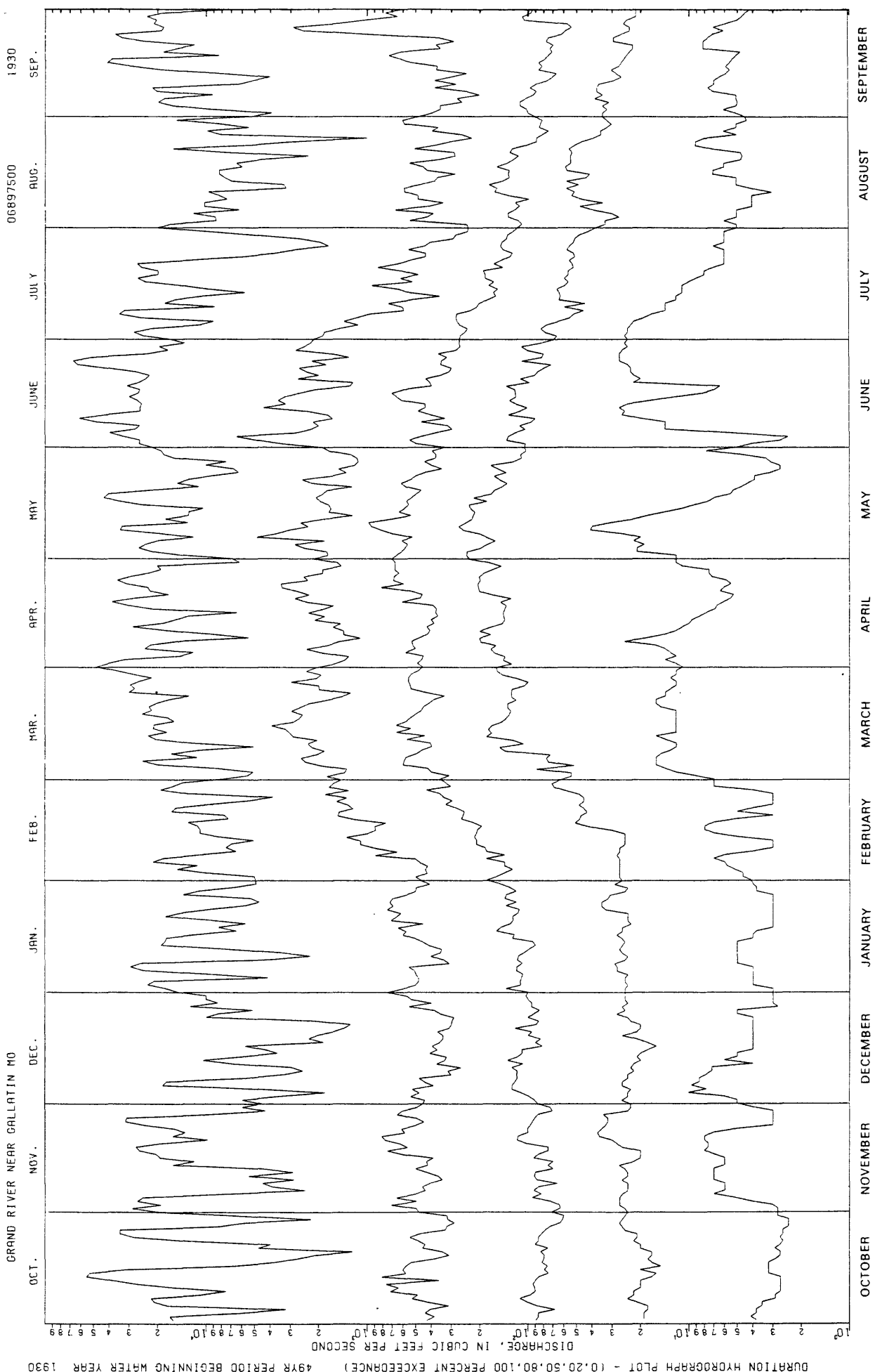
06837000

1944



DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 29YR PERIOD BEGINNING WATER YEAR 1944

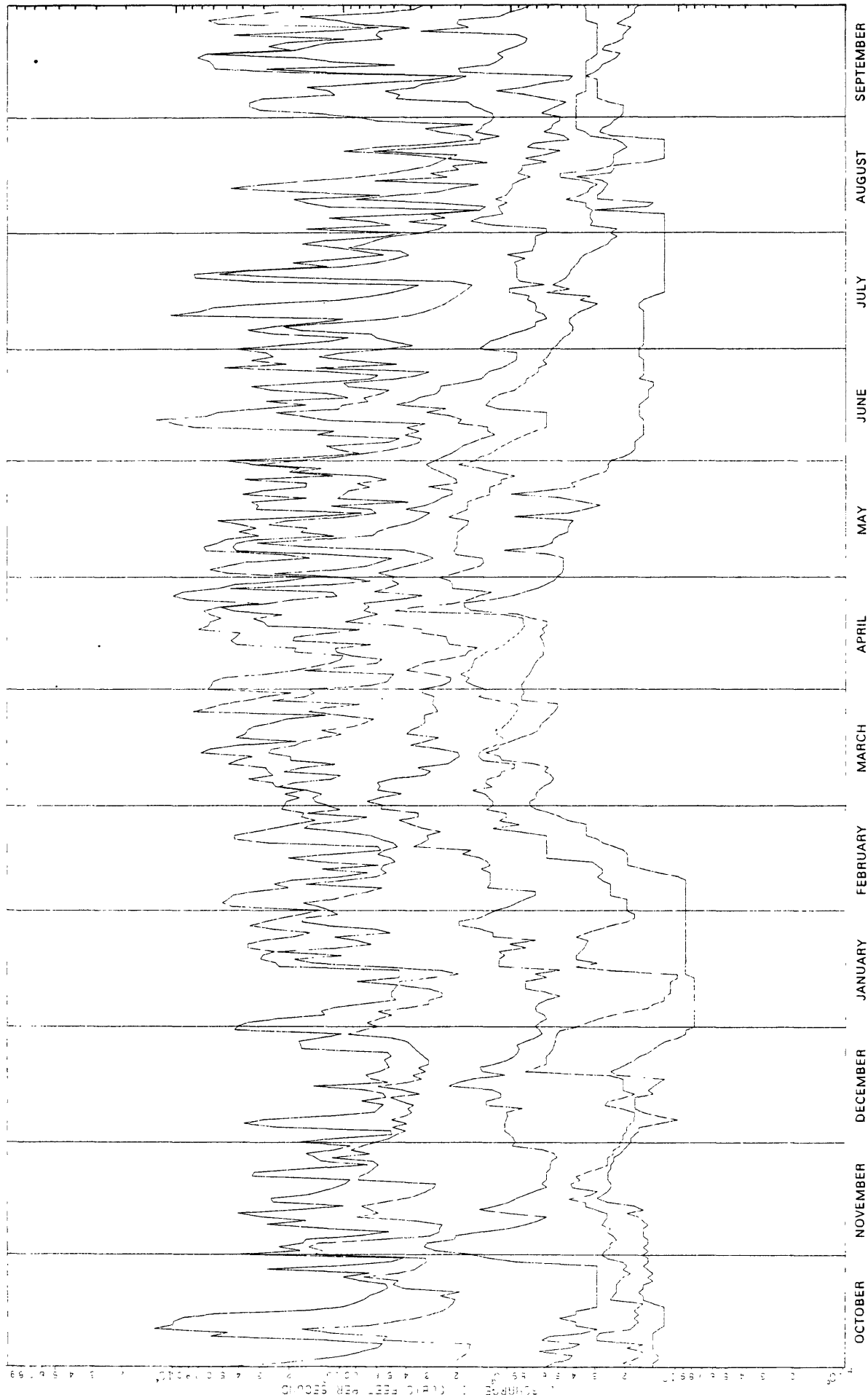
69



THOMPSON RIVER AT MOUNT MORRIS NO

06898100

1969



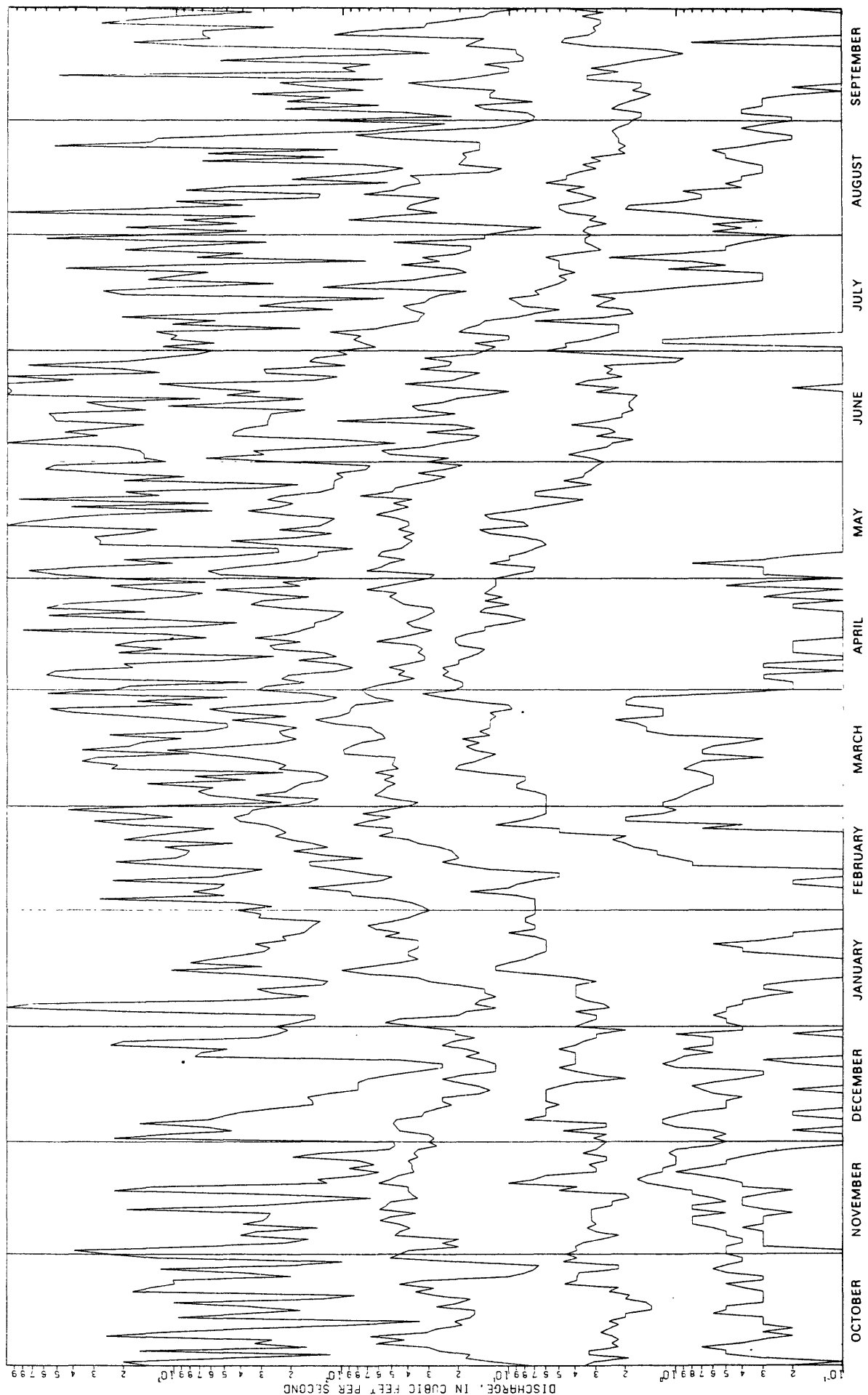
Duration of record: 101 years (1868-1968) (101 years of record beginning with 1868)

WELDON RIVER NEAR MERLER, MO.

06898500

1941

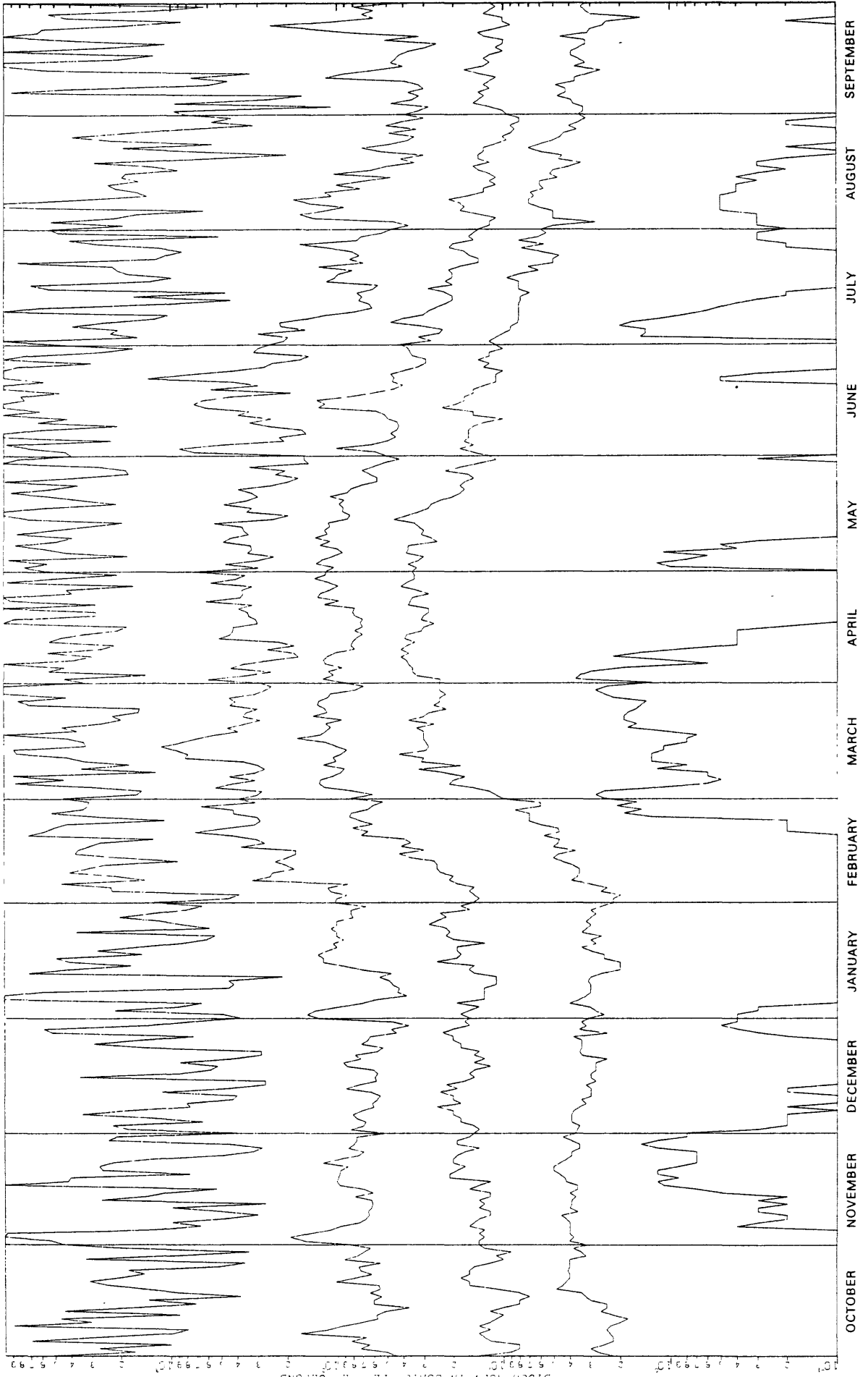
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 1941

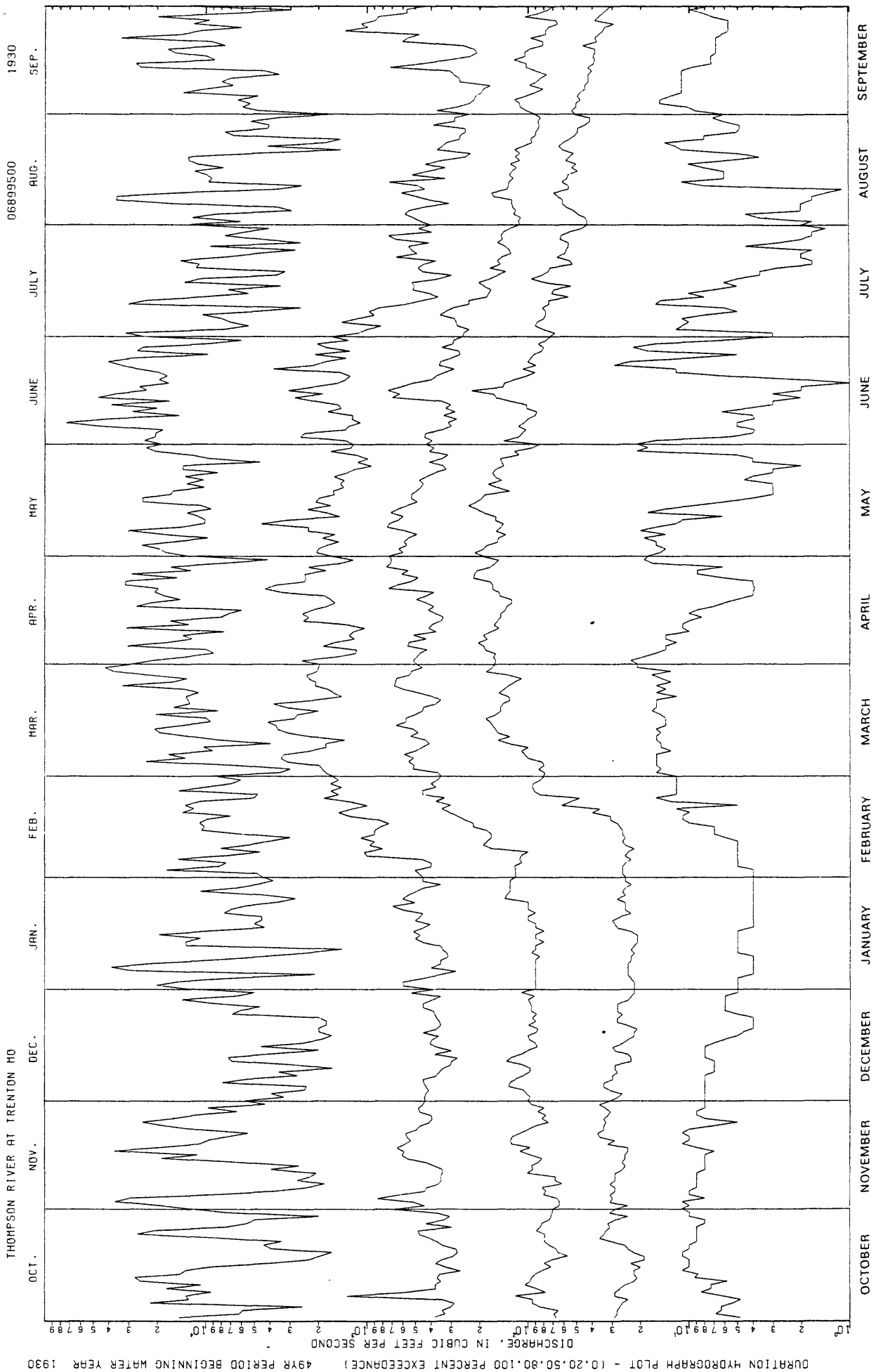


1934

068990CC

WELDON RIVER AT MILL GROVE MO

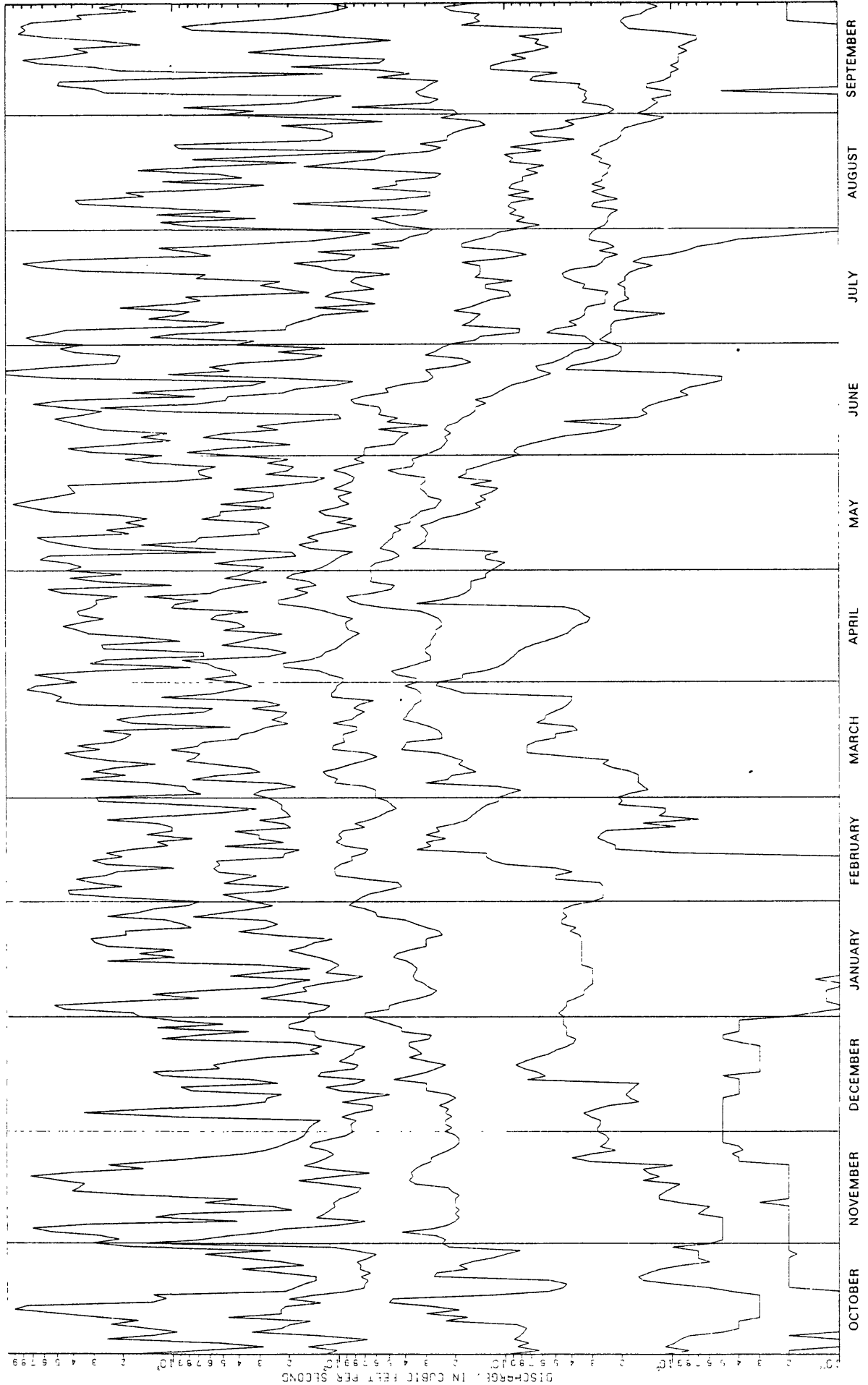




1959

06899700

SHOAL CREEK NEAR BRAYMER MO



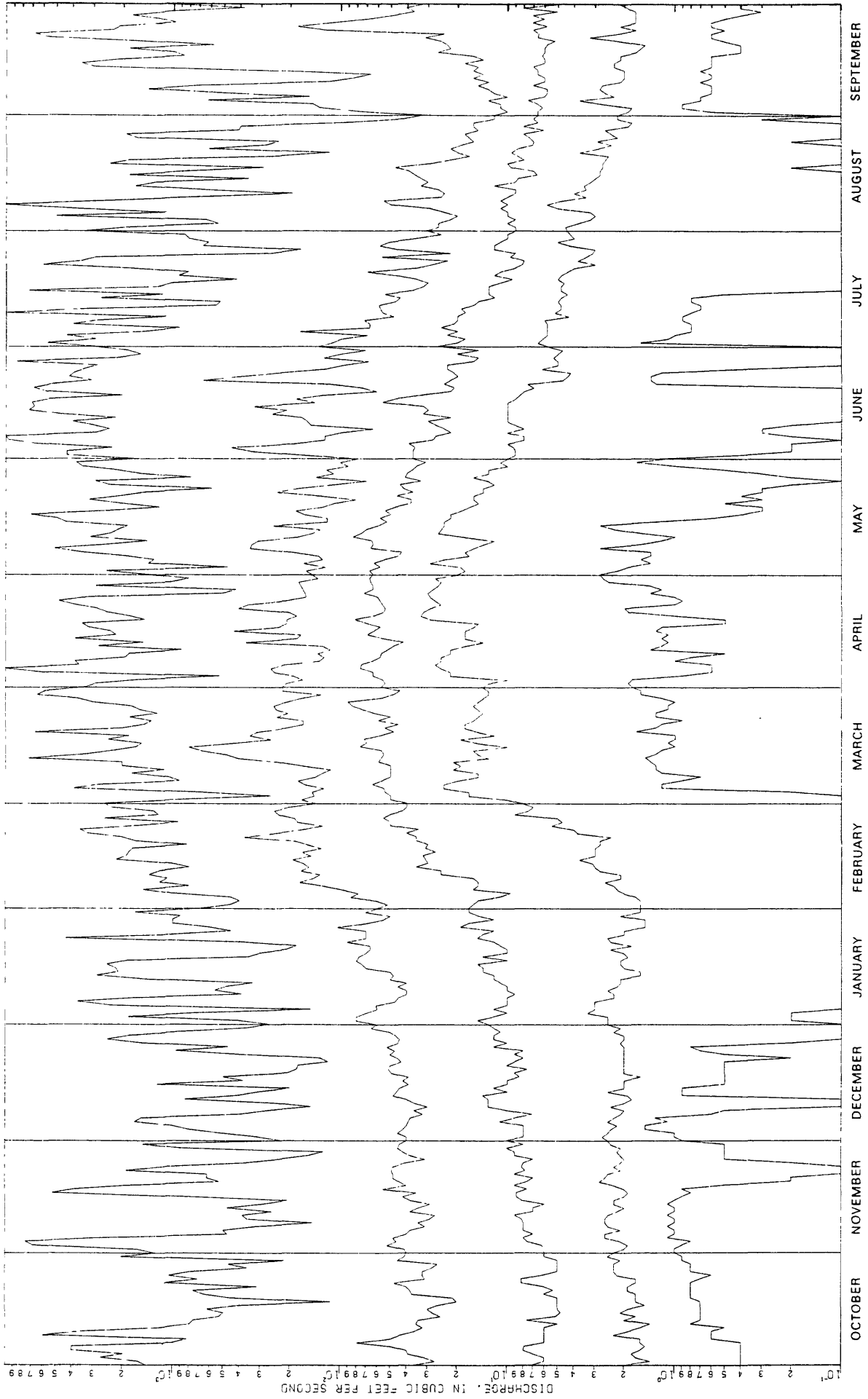
DURATION HYDROGRAPH PLOT - 10.20.50.80.100 PERCENT EXCESSANCE 1959 PERIOD BEGINNING WATER YEAR 1959

1934

069000090

MEDICINE CREEK NEAR GALT, MO

DURATION HYDROGRAPH PLOT - (0.20,50,90,100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1934

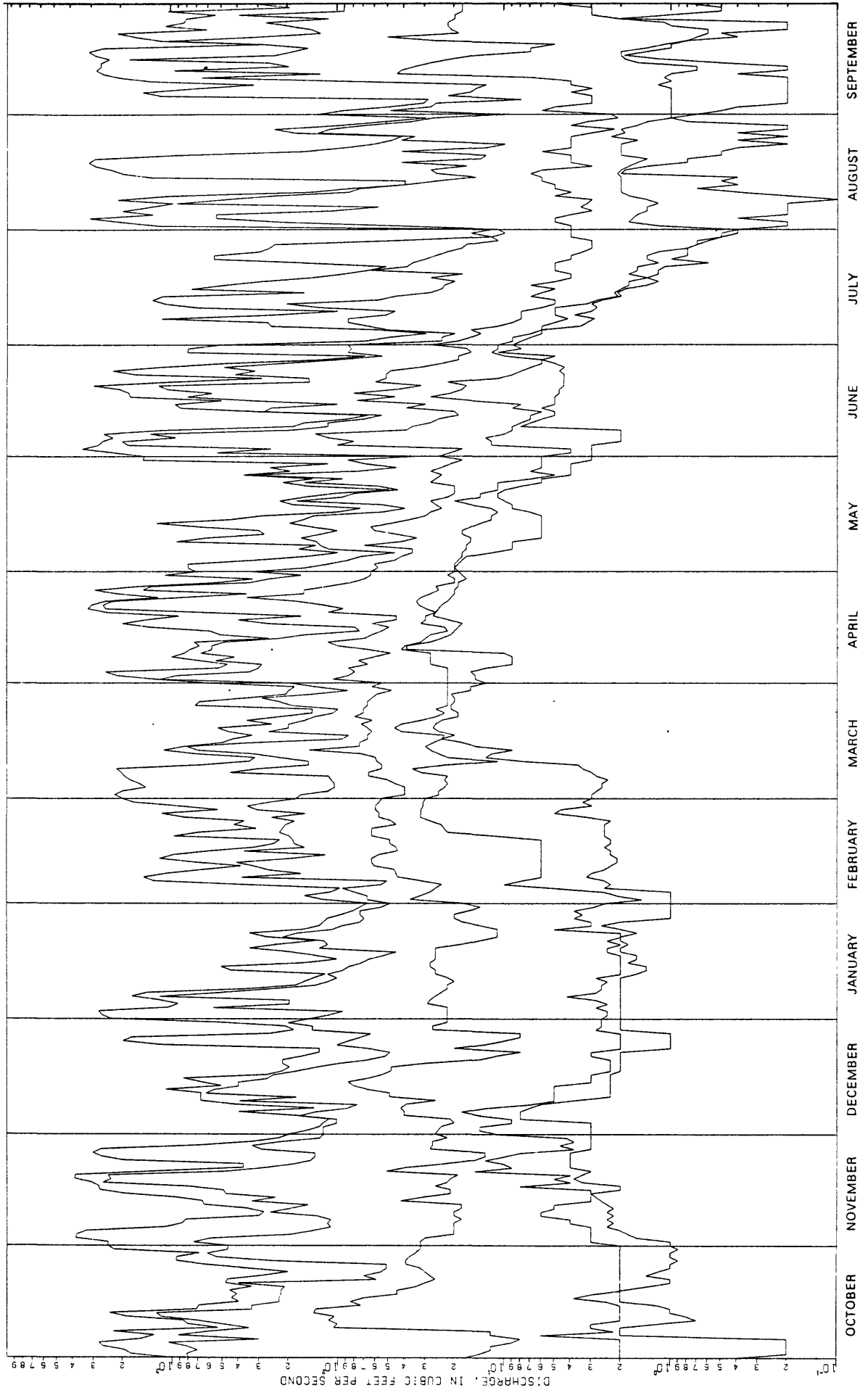


1925

06901000

LOCUST CREEK NEAR MILAN, MO.

DURATION HYDROGRAPH PLOT - (0.20, 0.50, 0.80, 1.00 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1925



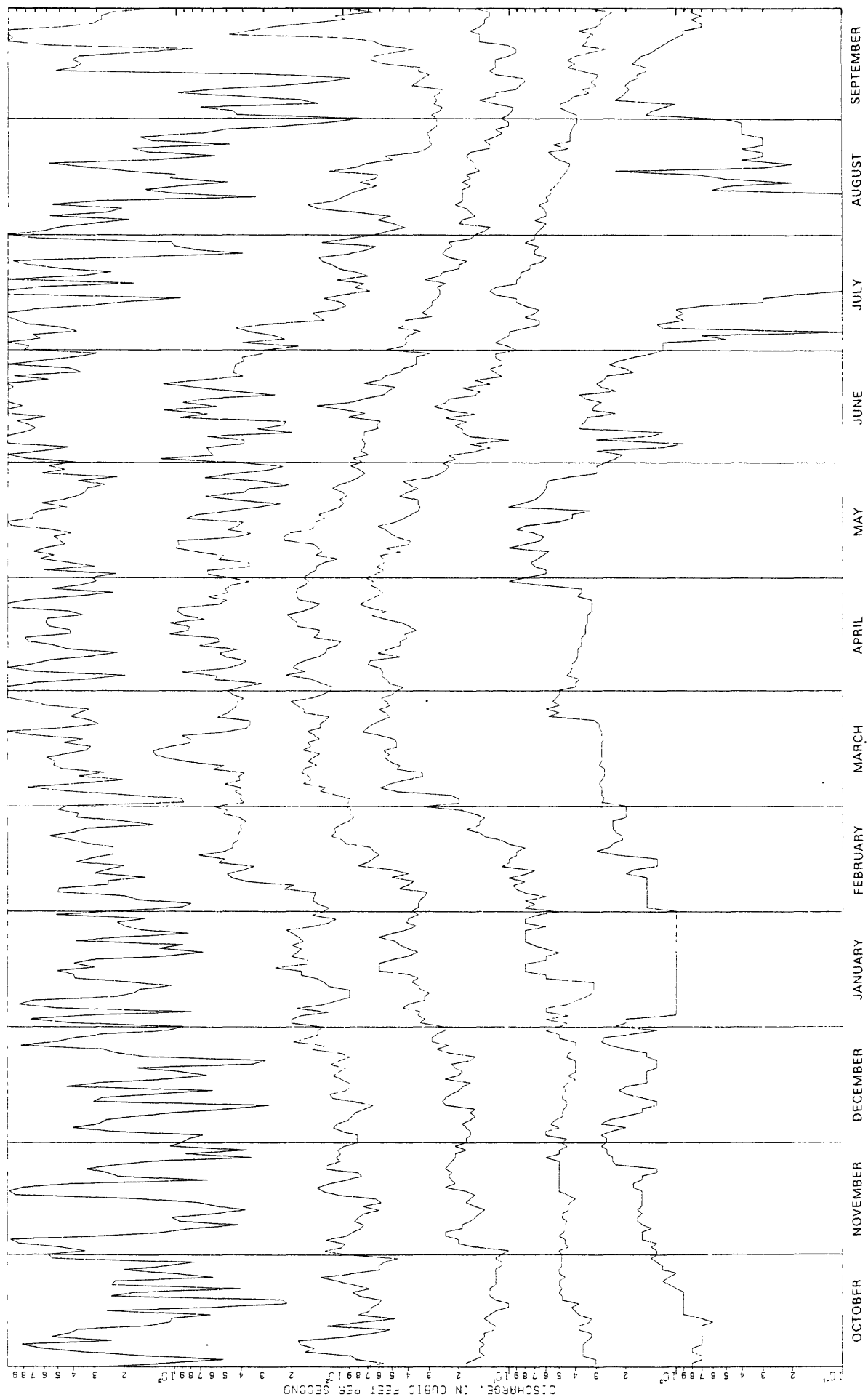
77

LOCUST CREEK NEAR LINNEUS MO

06901500

1934

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1934

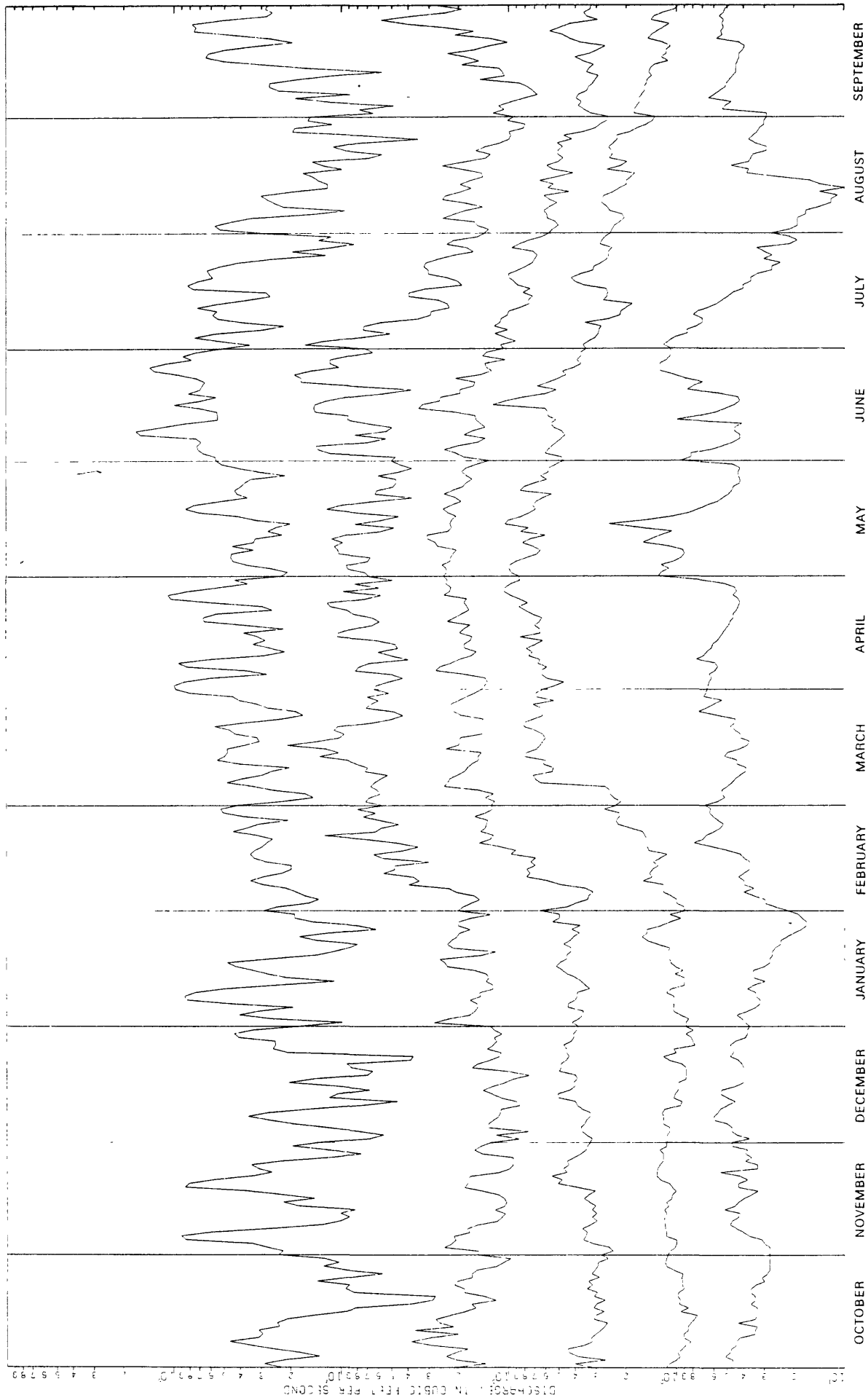


GRAND RIVER NEAR SUMNER MO

06902000

1934

DURATION-HIDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 29YR PERIOD BEGINNING WATER YEAR 1934

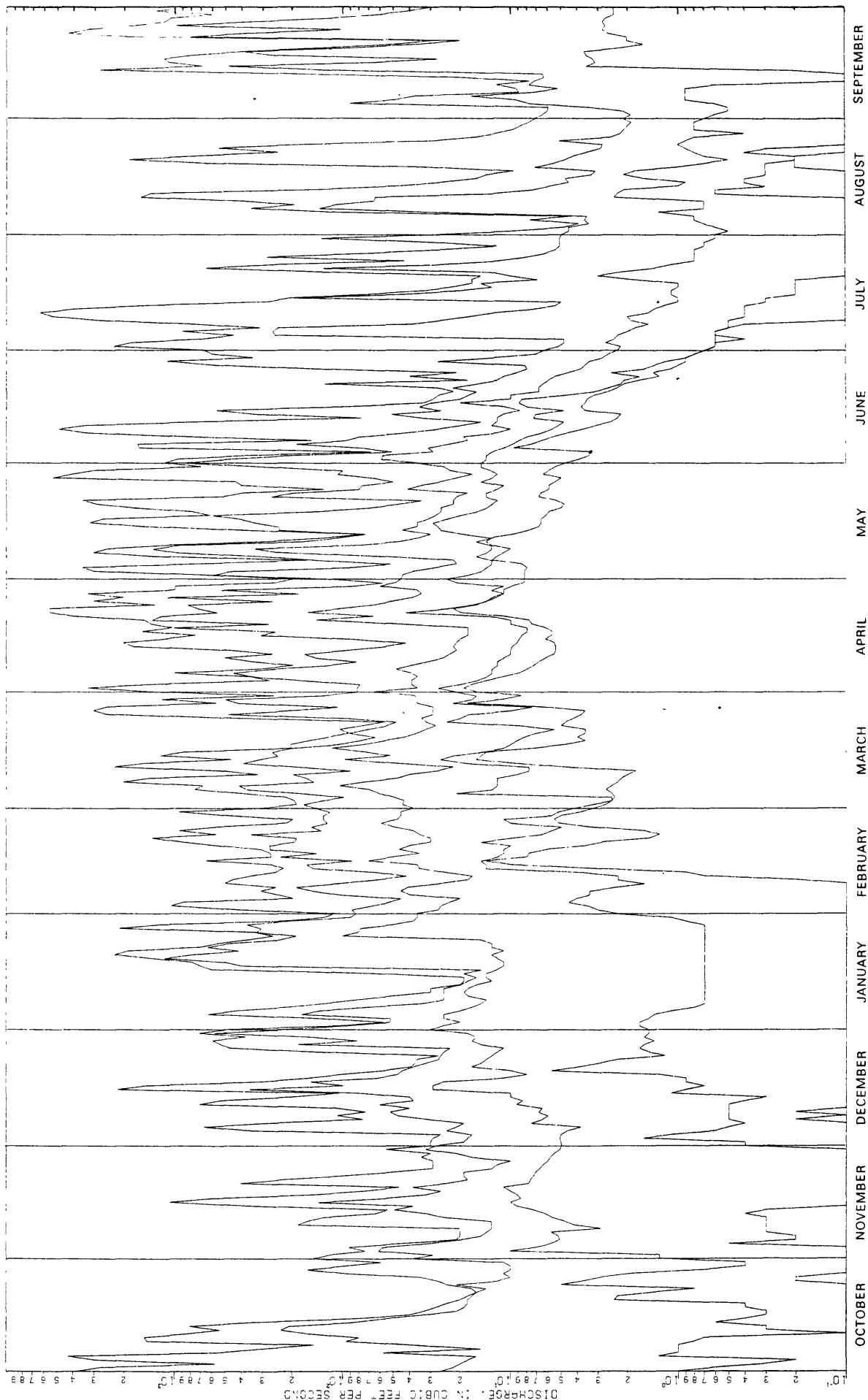


WEST YELLOW CREEK NEAR BROOKFIELD ND

05902200

1969

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YE PERIOD BEGINNING WATER YEAR 1959



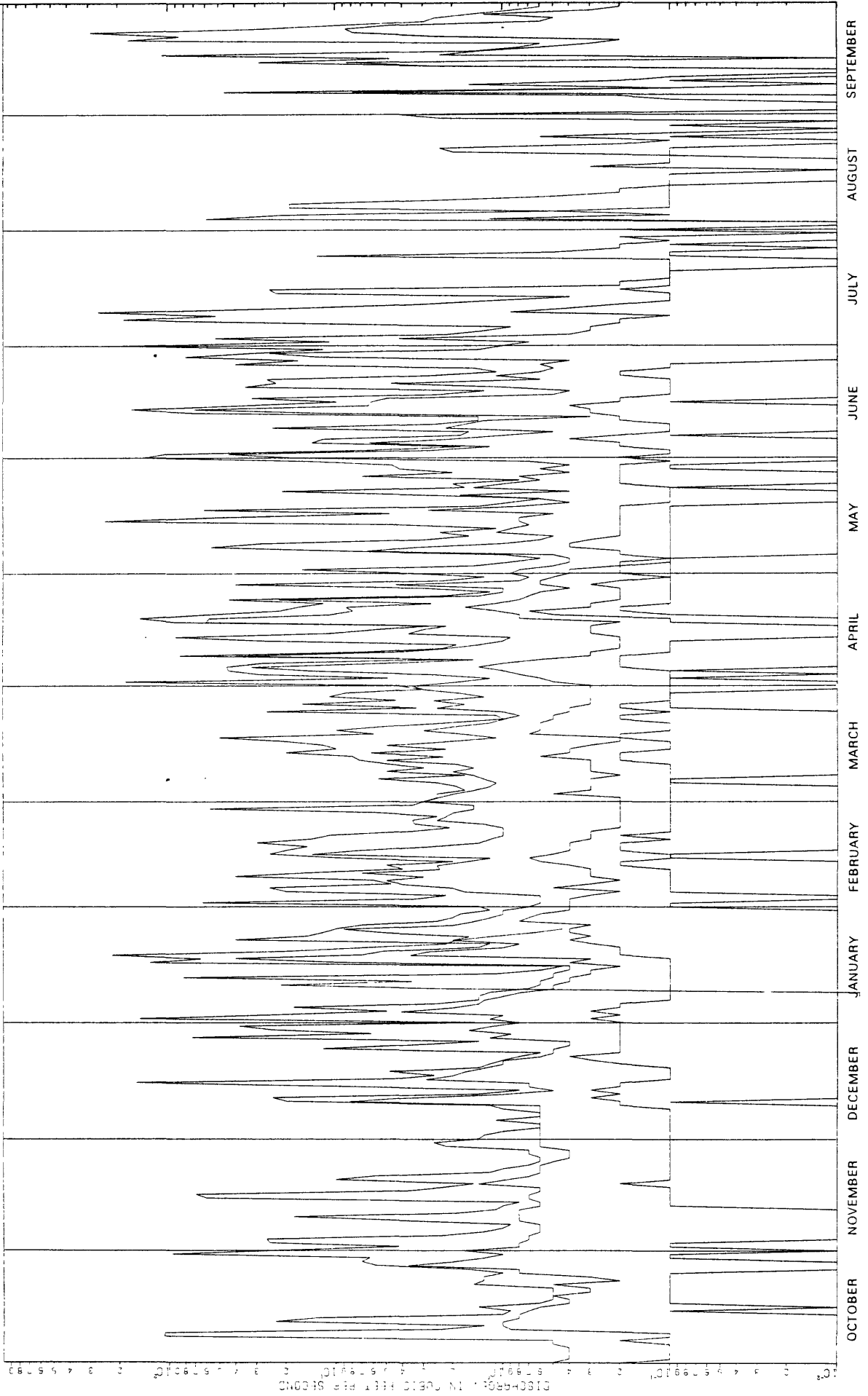
HAMILTON BRANCH NEAR NEW BOSTON MO

06302500

1964

06302500

1964

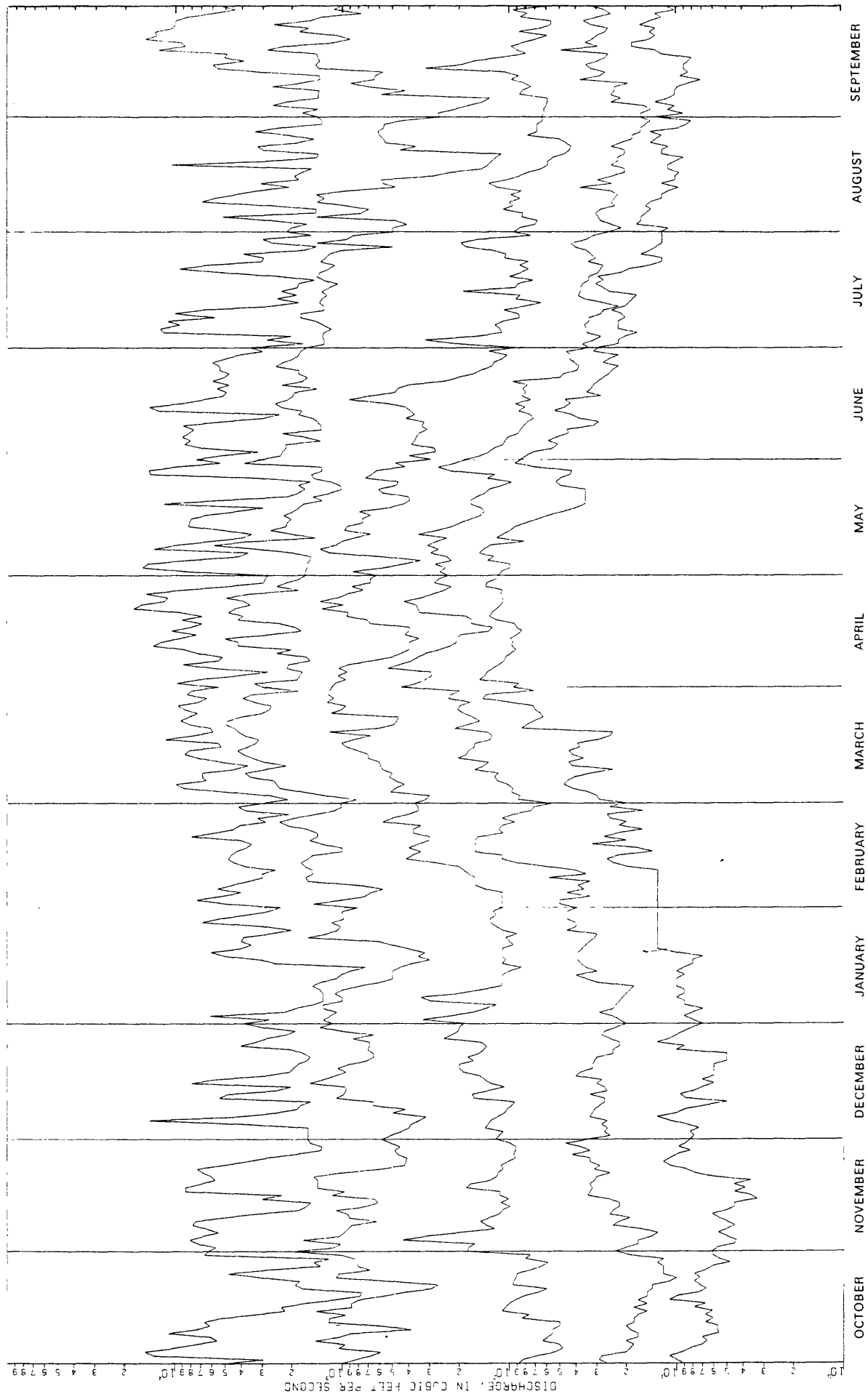


CHARITON RIVER AT NOVINGER MO

06904500

1961

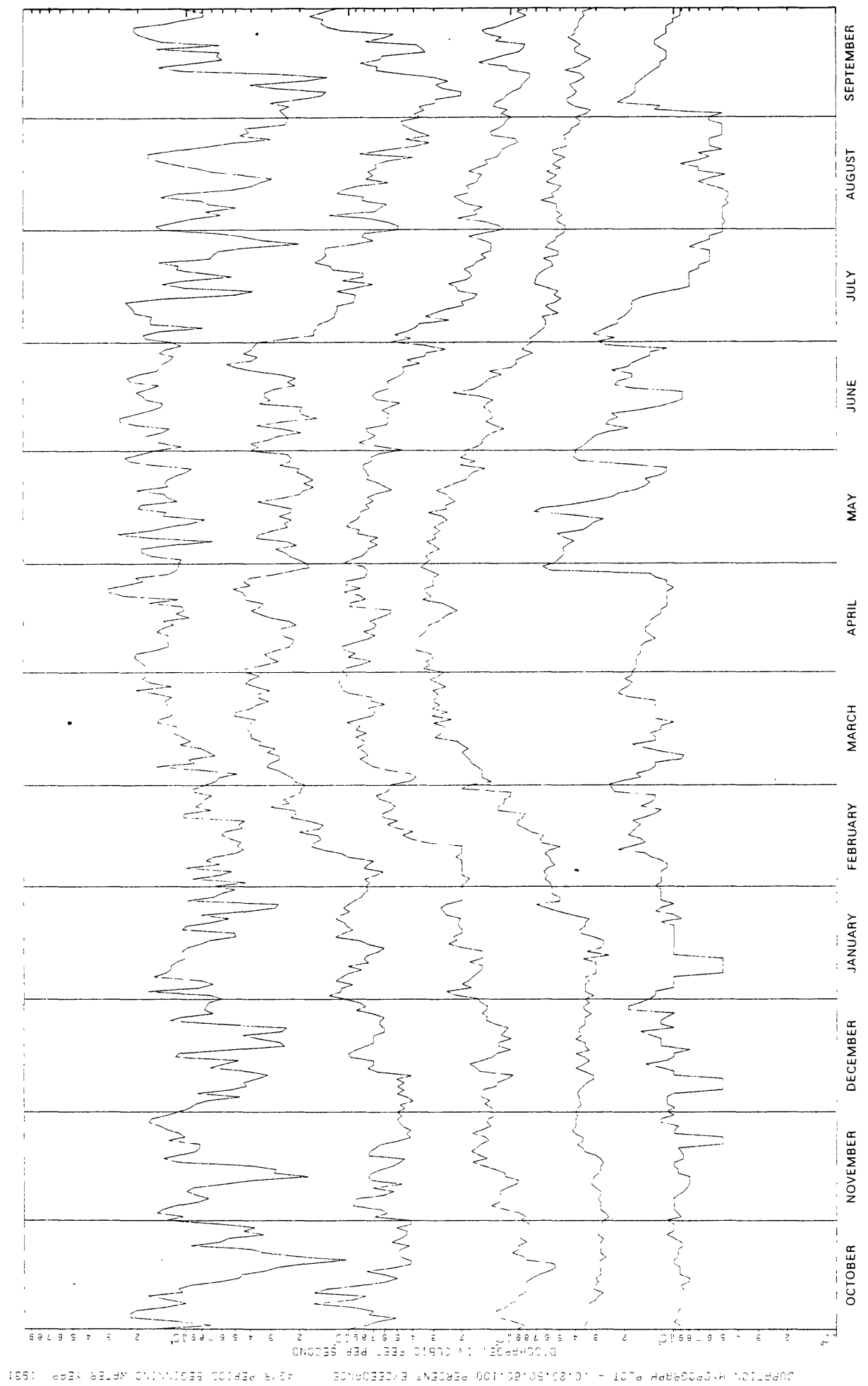
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1961



CHARITON RIVER NEAR PRAIRIE HILL, MO.

06905500

1931

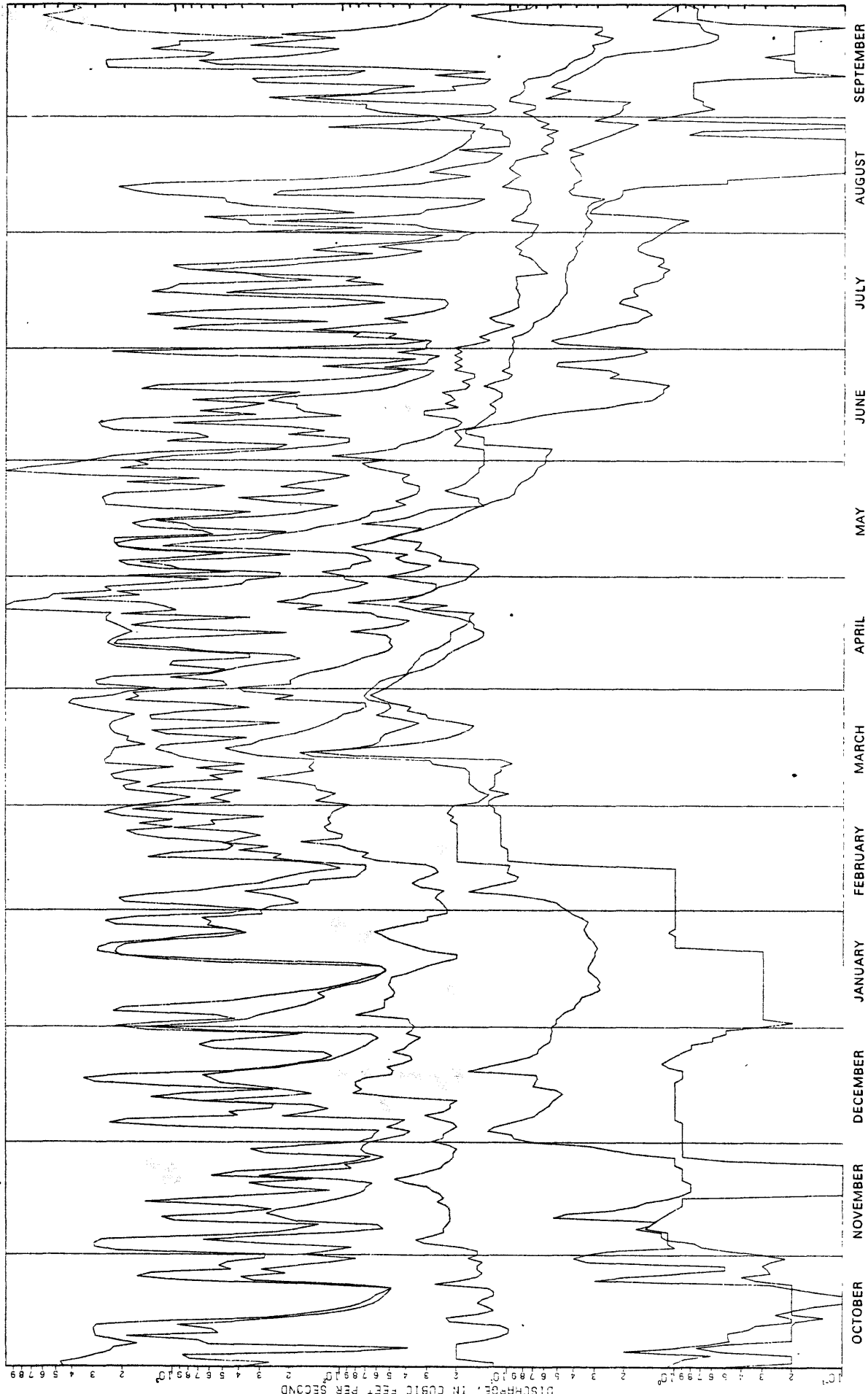


MUSSEL FORK NEAR MUSSELFORK, MISSOURI

06906C00

1971

DURATION HYDROGRAPH PLOT - (0.20,50,60,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1971

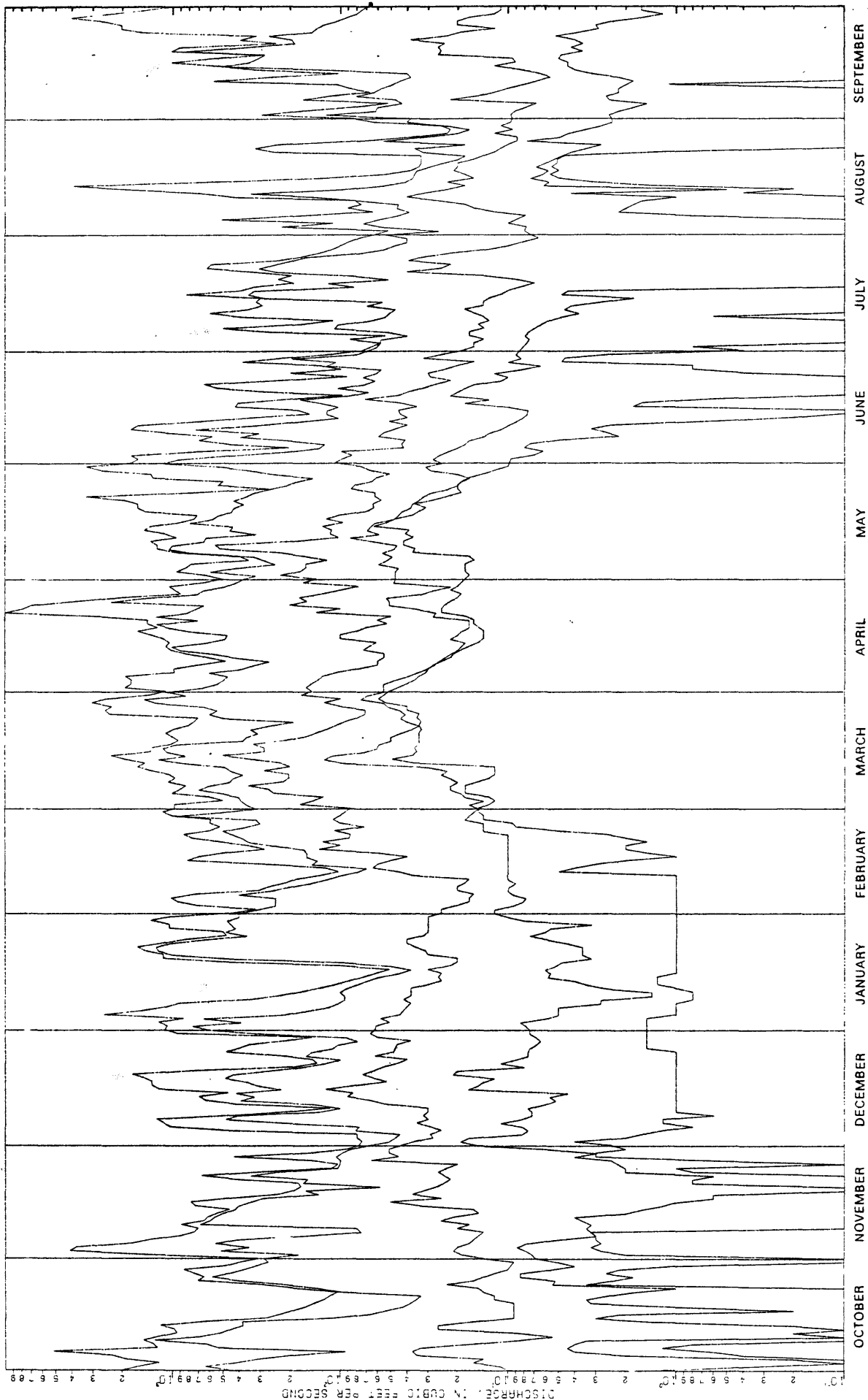


1971

CG906300

EAST FORK LITTLE CHARITON R NR HUNTSVILLE MO

DURATION HYDROGRAPH PLOT - 10,20,50,80,100 PERCENT EXCEEDANCE: 09-9 PERIOD BEGINNING WATER YEAR 1971

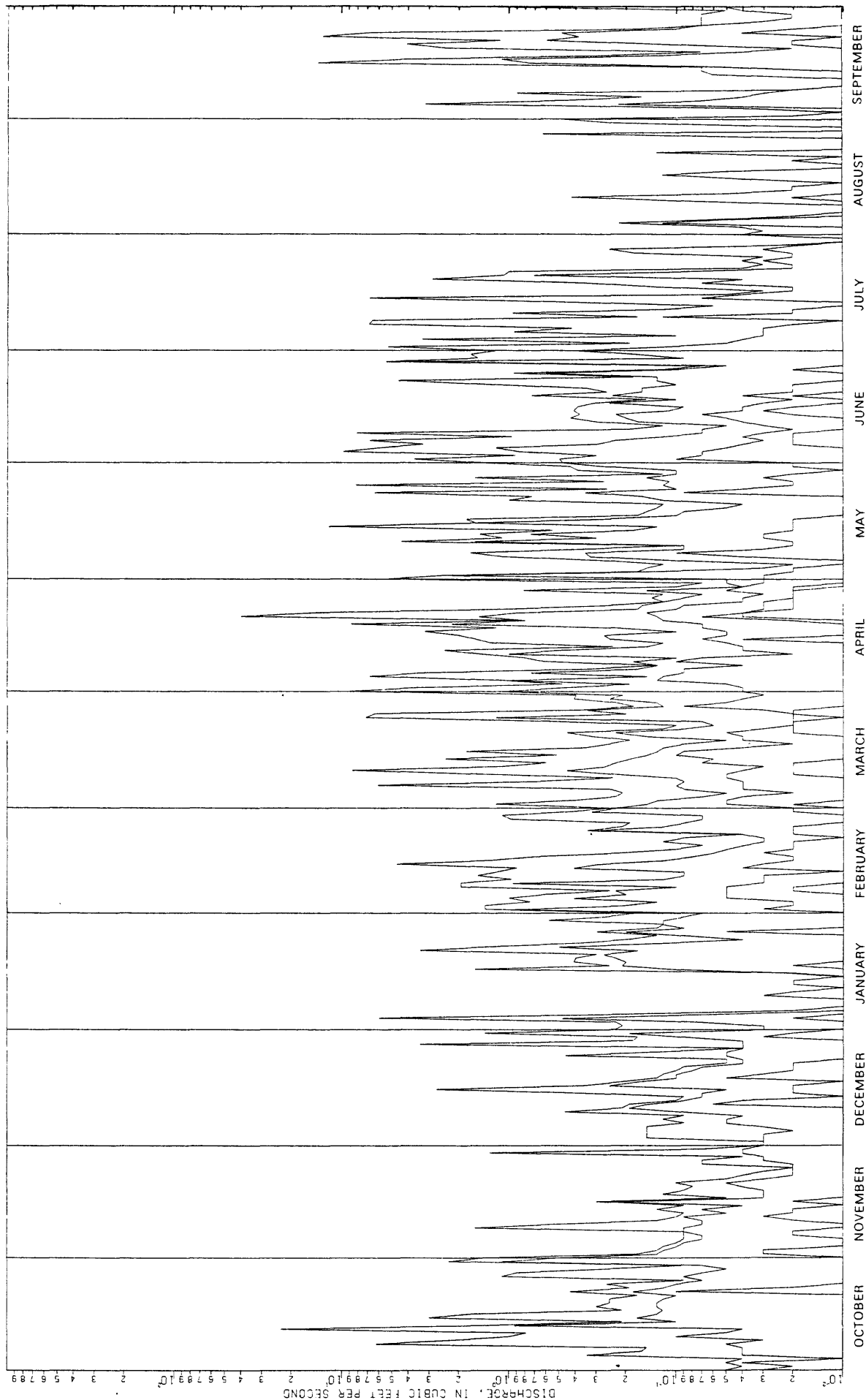


BURGE BRANCH NEAR ARROW ROCK MO

06906600

1965

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1965

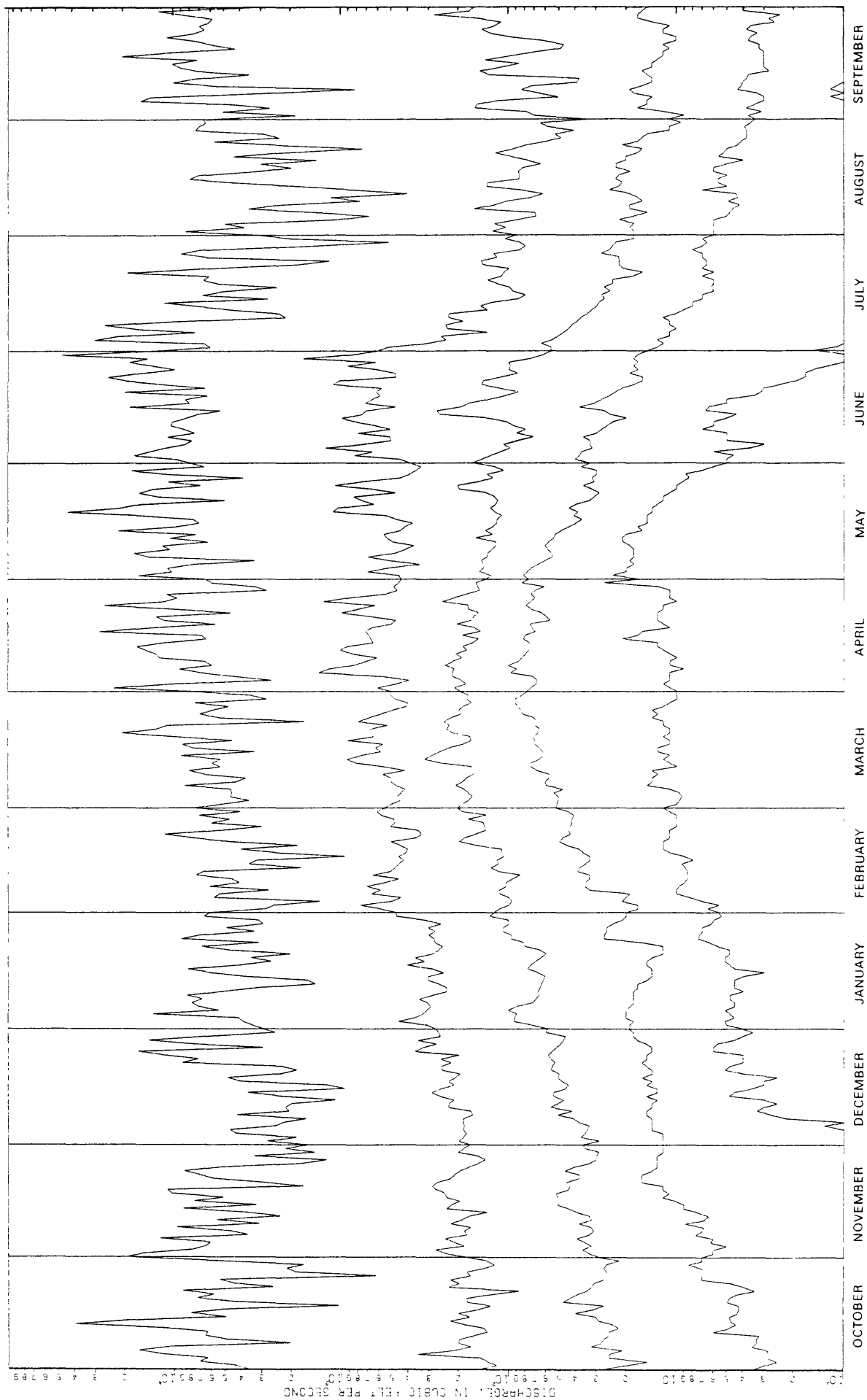


LARINE RIVER AT CLIFTON CITY, MO.

06907080

1923

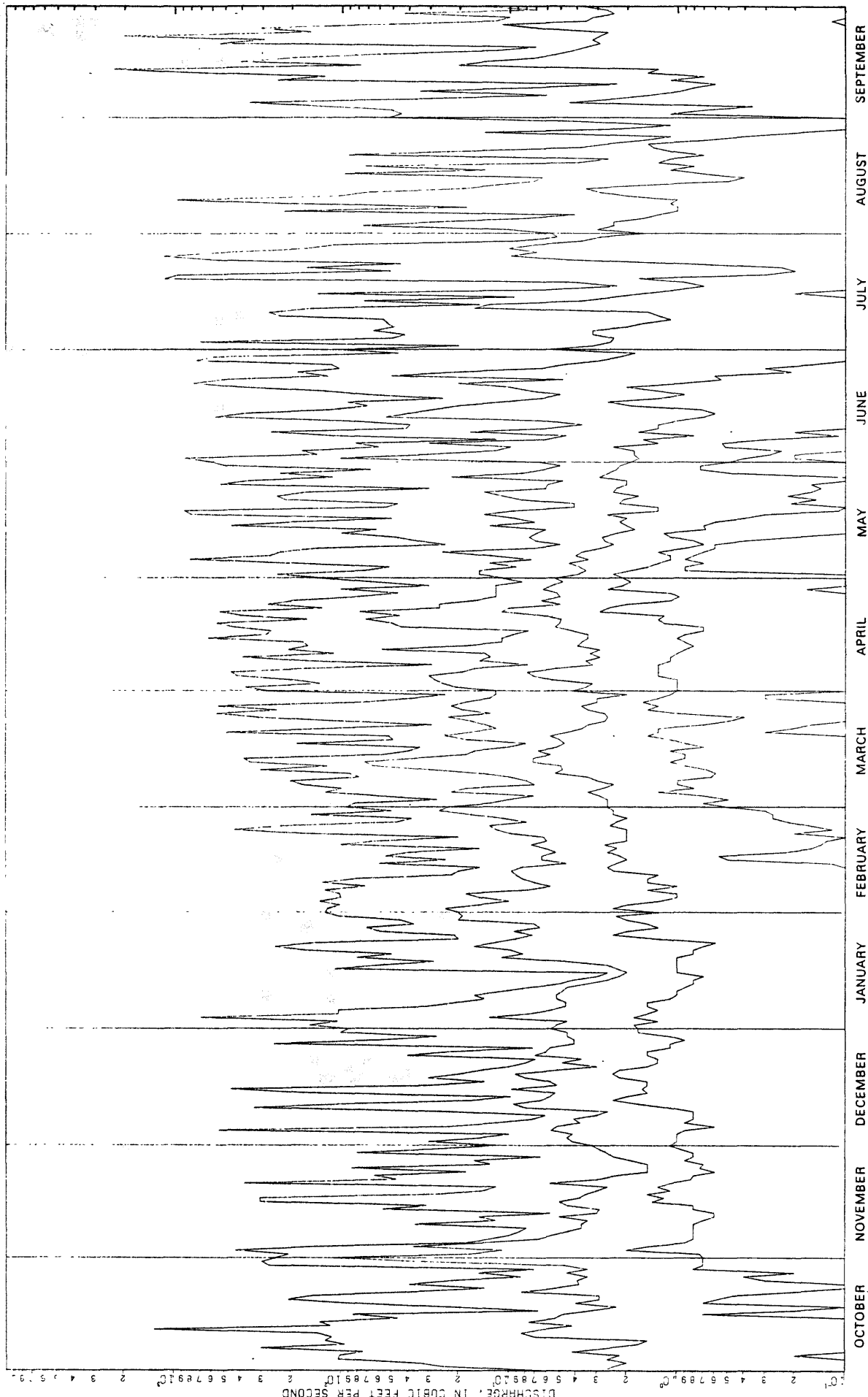
Duration Hydrograph Plot - (0.20, 0.50, 1.00 Percent Recurrence) 49yr Flood Breaching Water Year 1923



SOUTH FORK BLACKWATER RIVER NEAR ELM. MO.

06907500

1961



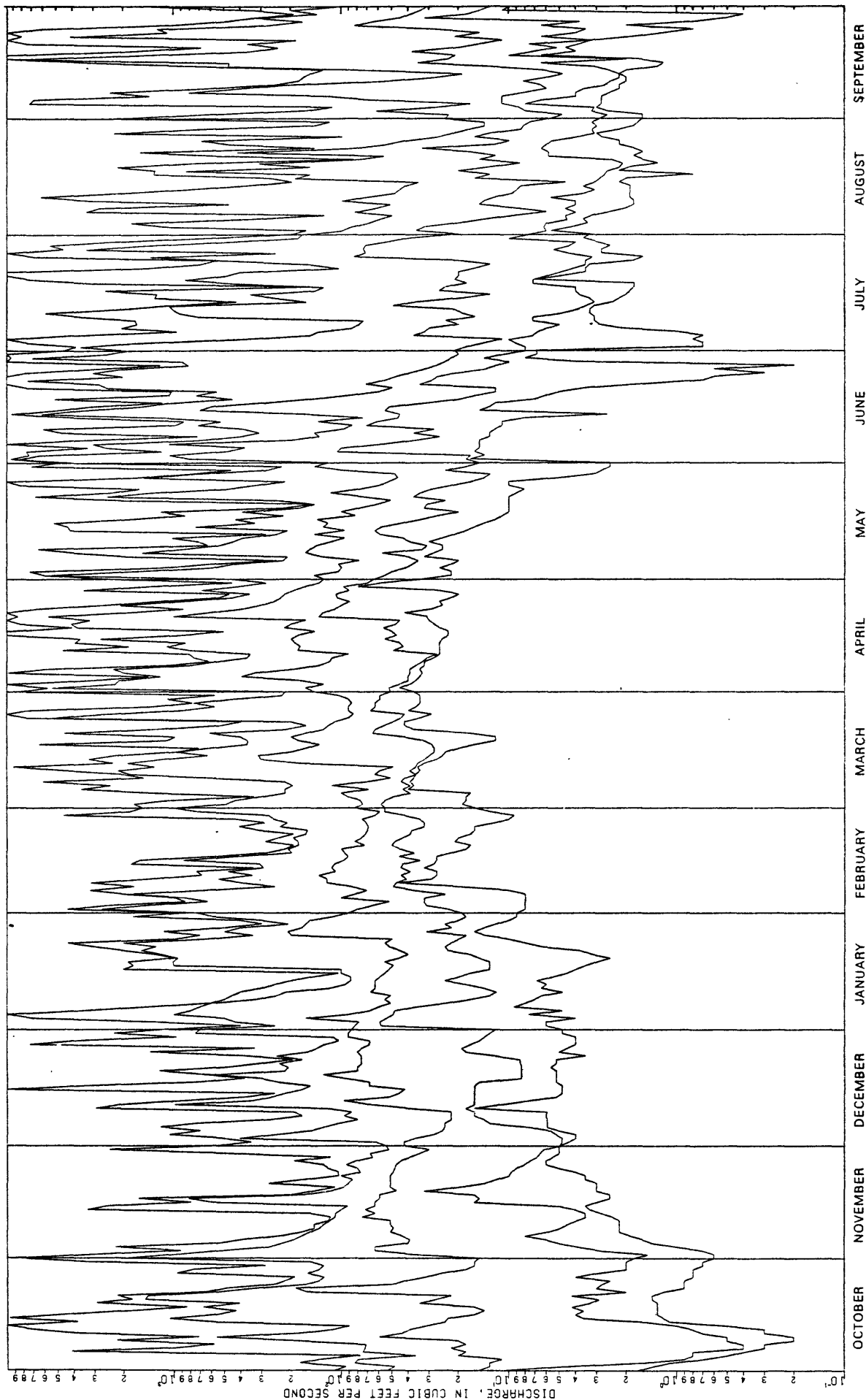
OCTOBER NOVEMBER DECEMBER JANUARY FEBRUARY MARCH APRIL MAY JUNE JULY AUGUST SEPTEMBER

1965

06907700

BLACKWATER RIVER AT VALLEY CITY MO

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1965

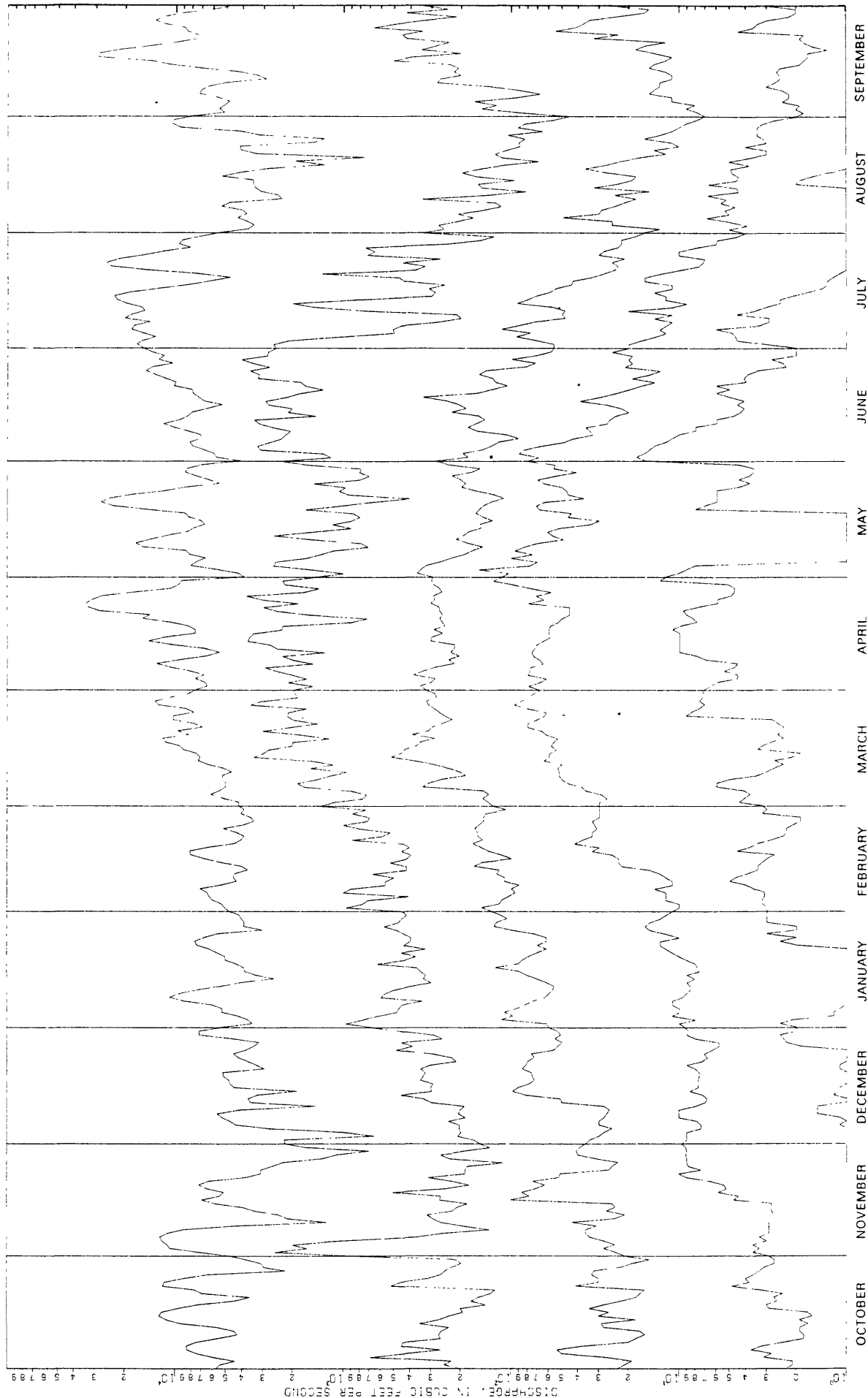


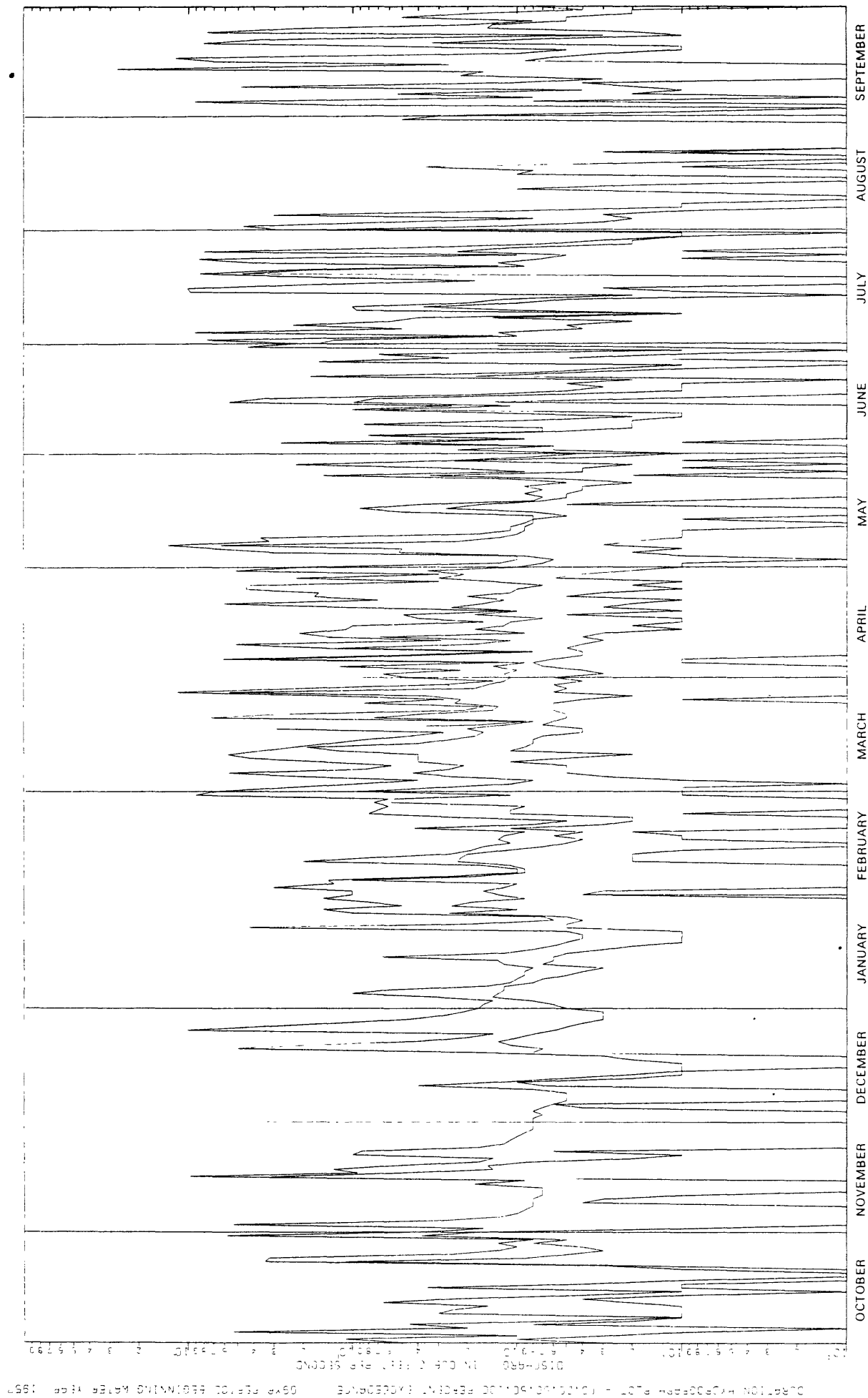
BLACKWATER RIVER AT BLUE LICK, MISSOURI

062006000

1941

Duration Hydrograph Plot - 10.20.50.80.100 Percent Exceedance 39yr Period Beginning After Year 1941



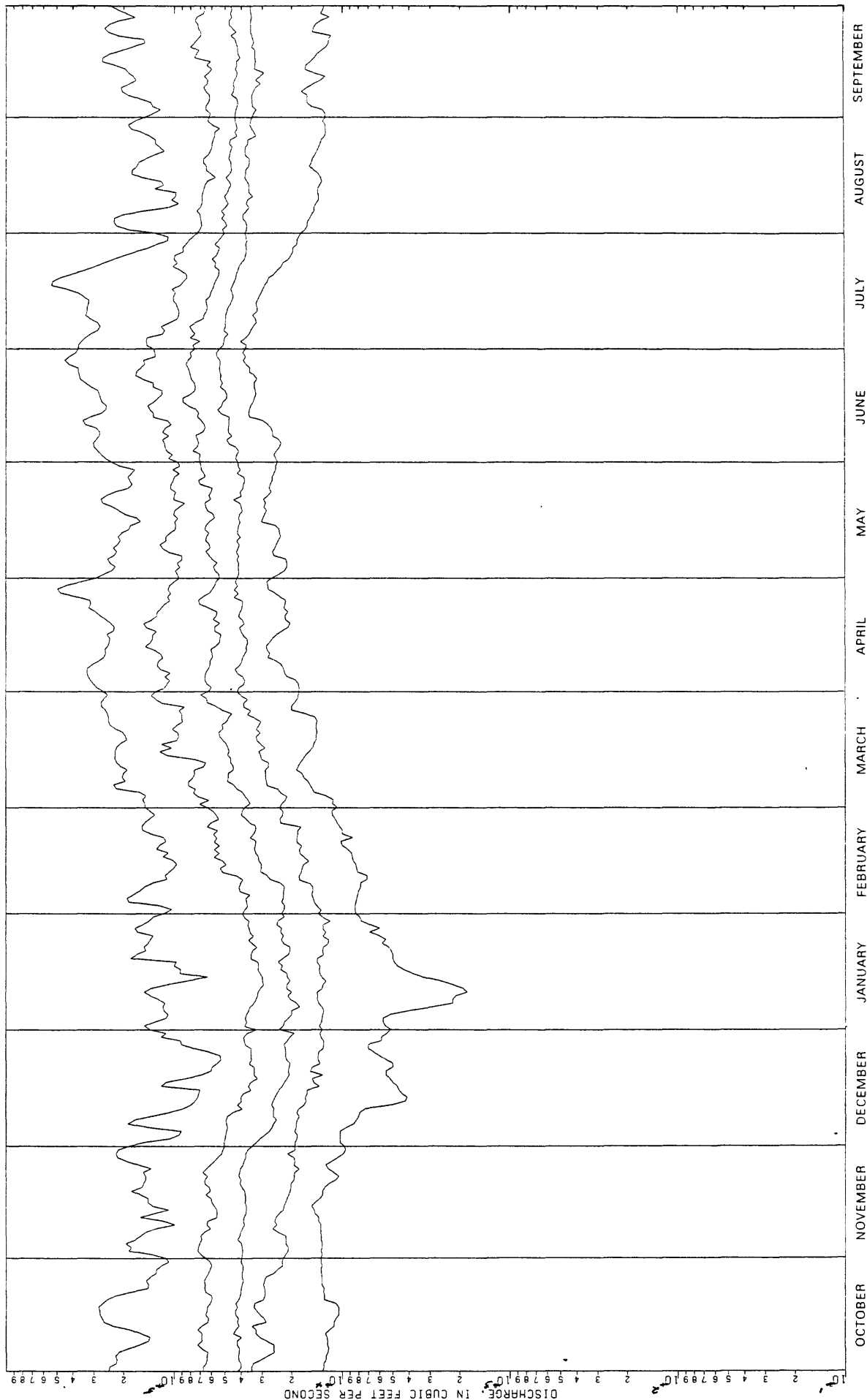


MISSOURI RIVER AT BOONVILLE, MO.

06909000

1931

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

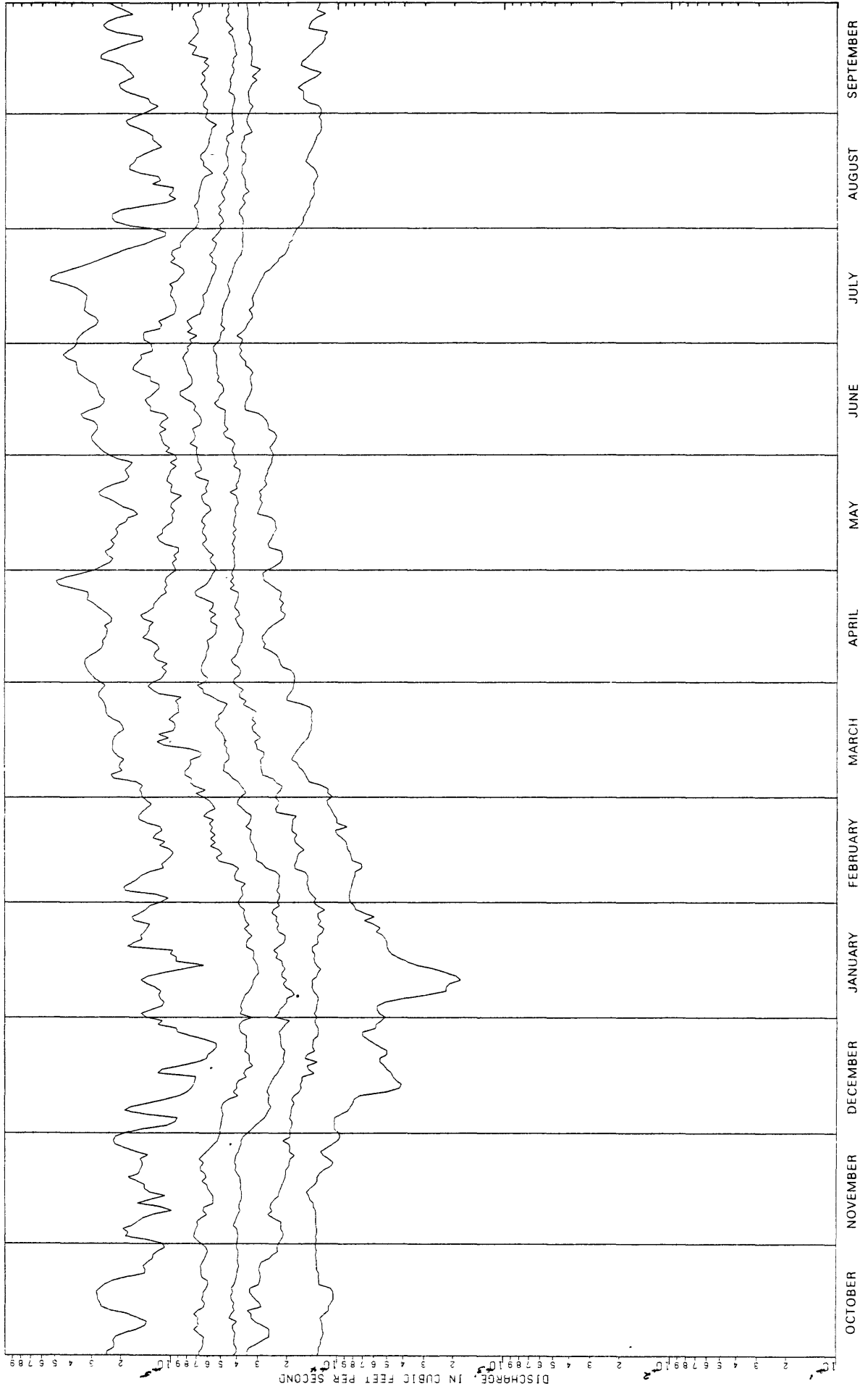


MISSOURI RIVER AT BOONVILLE, MO.

05909000

1931

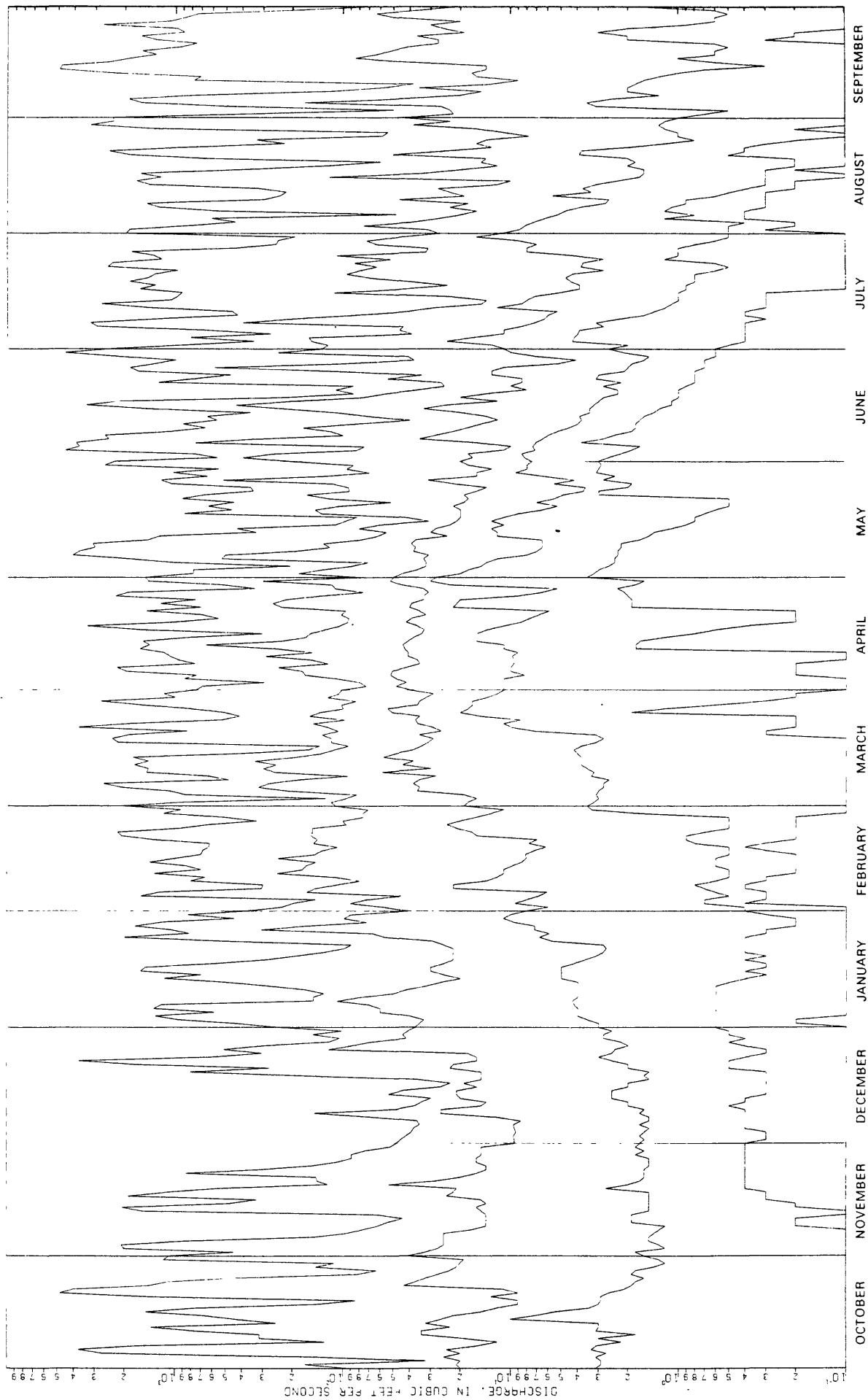
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

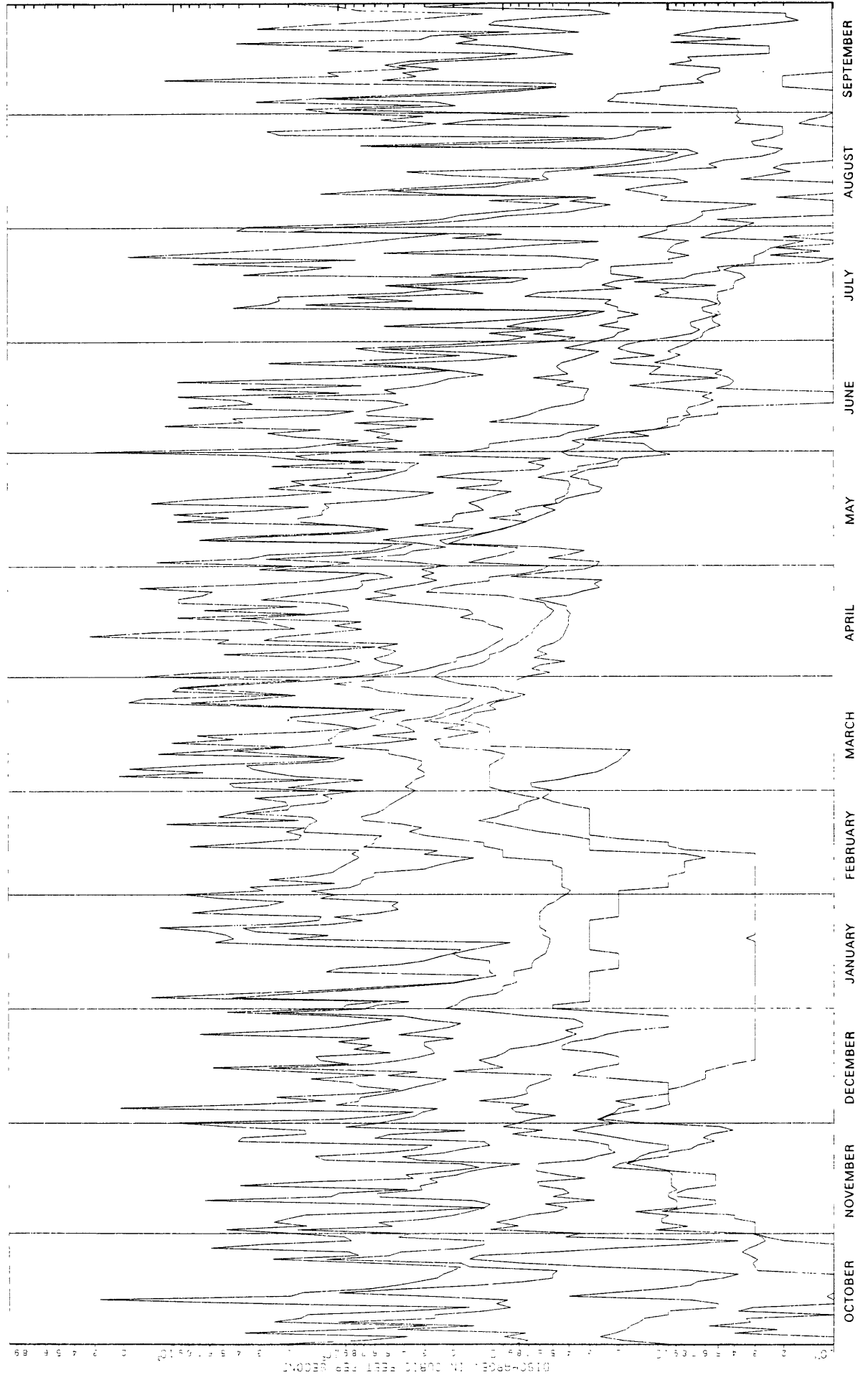


PETITE SALINE CREEK NEAR BOONVILLE, MO.

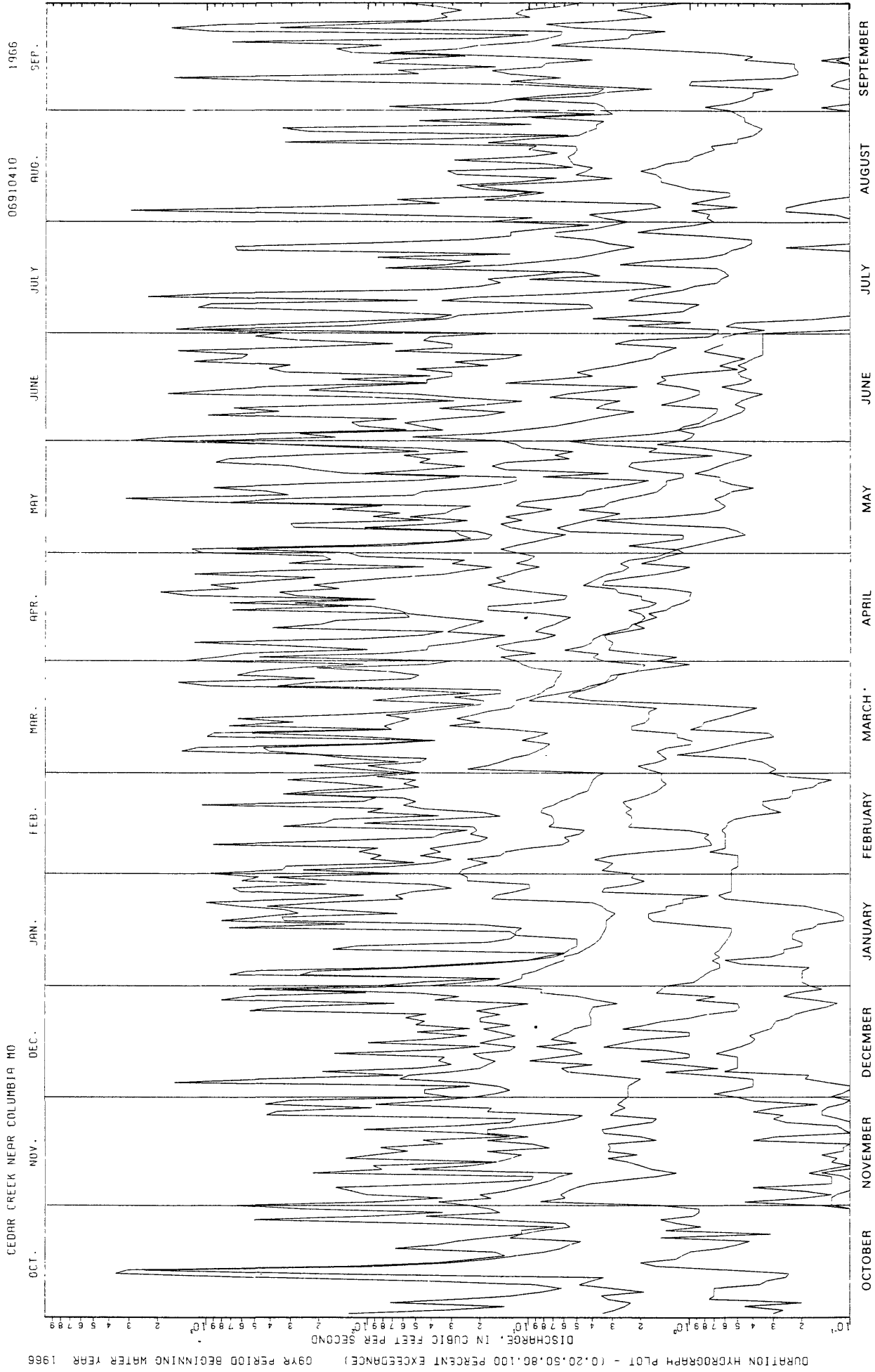
06910000

1949

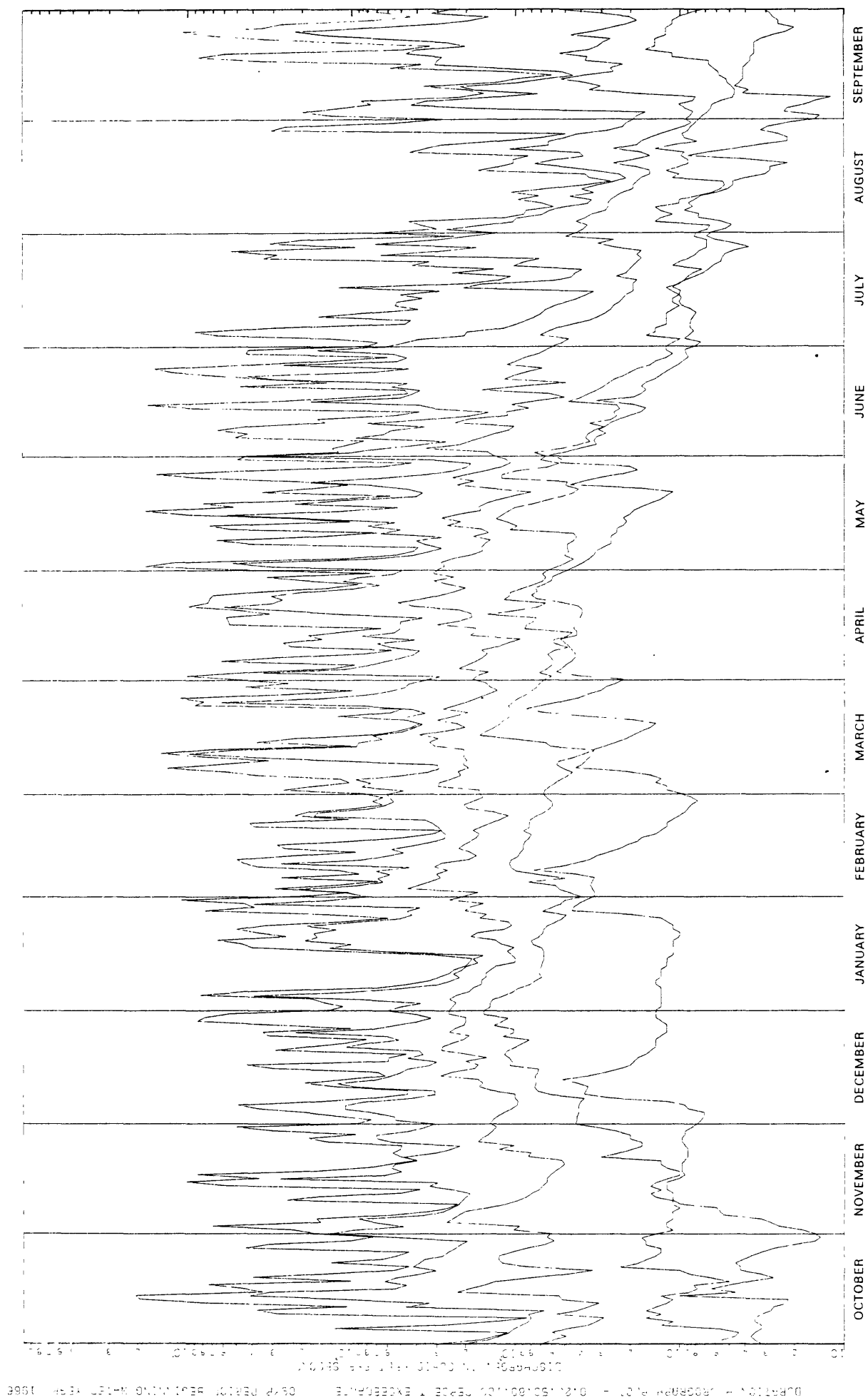




DURBETIC, H.; GONZALEZ, R.J.T. = (0,00,98,70,100) SEPCENT B REEDUCERE
OXYE EMBLCT BRCTVITNG "4775 EAP 1671



DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1966

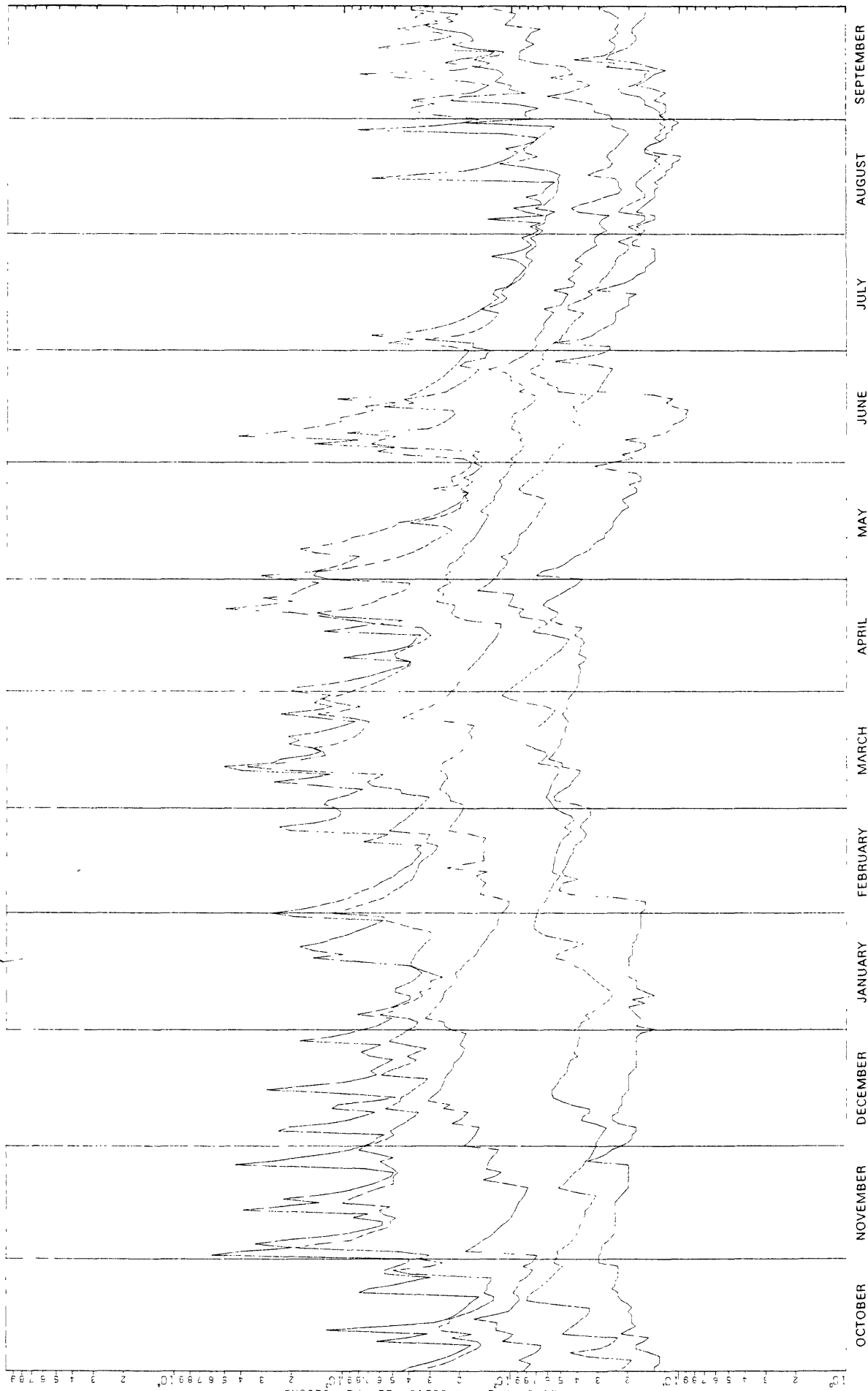


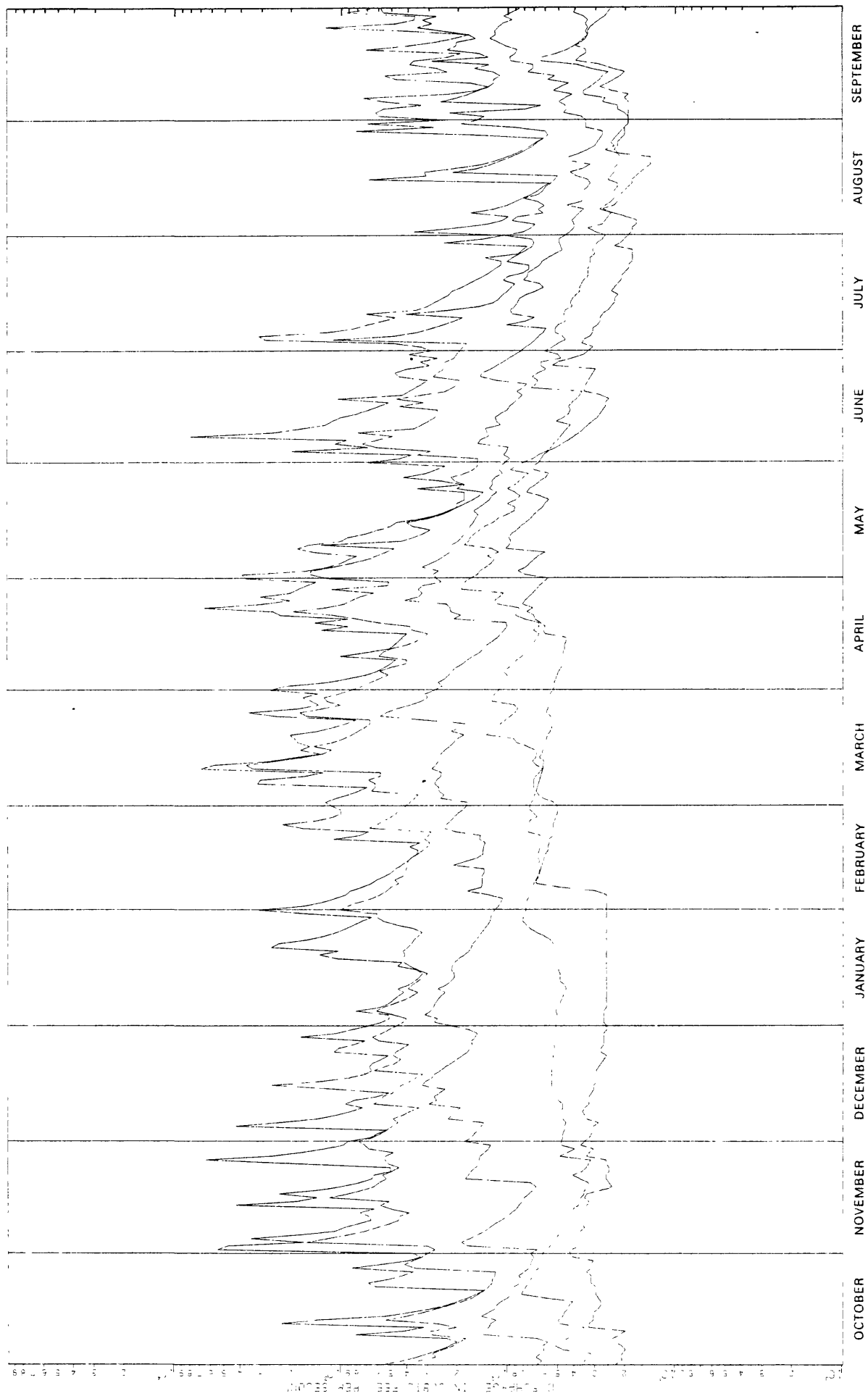
SAC RIVER NEAR DODEVILLE, MO.

06918440

1969

DURATION: HYDROGRAPH PLOT 10.71.50.00.100 PERCENT EXCEEDANCE, 09YR PERIOD BEGINNING AFTER YEAR 1969

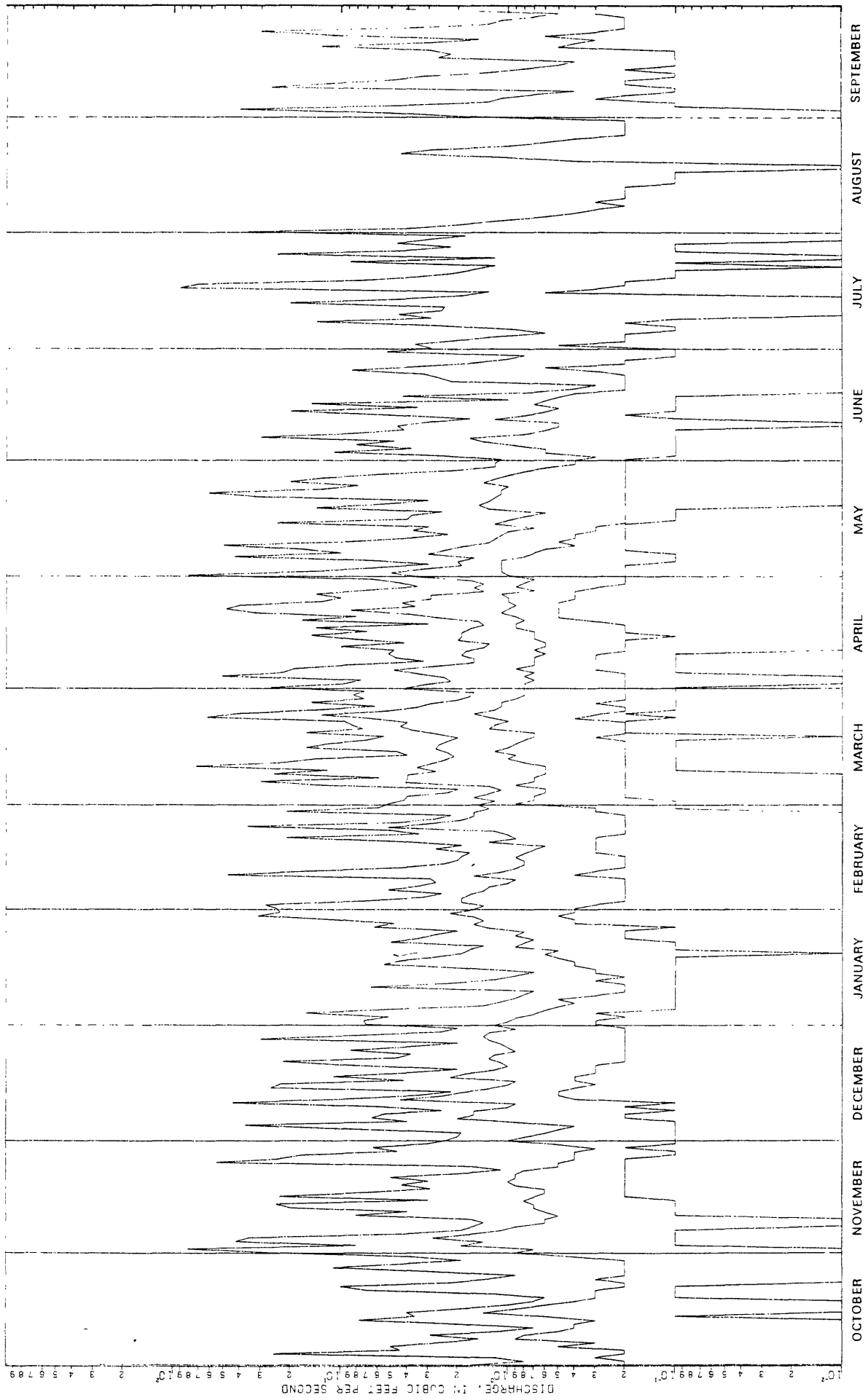




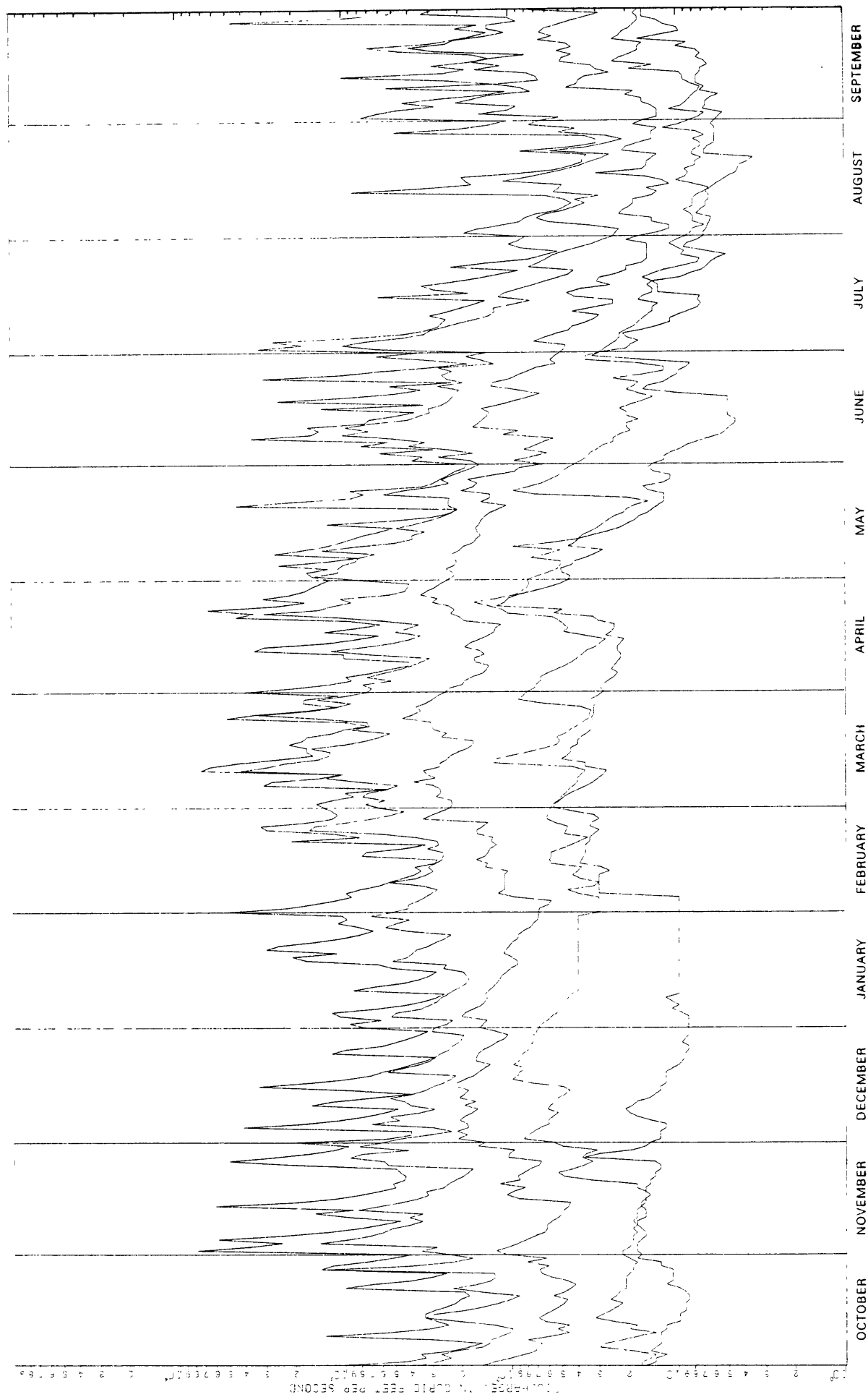
99

ORR GROVE BR NR BRIGLION. MO 1957

JURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE 19R PERIOD BEGINNING AFTER YEAR 1957



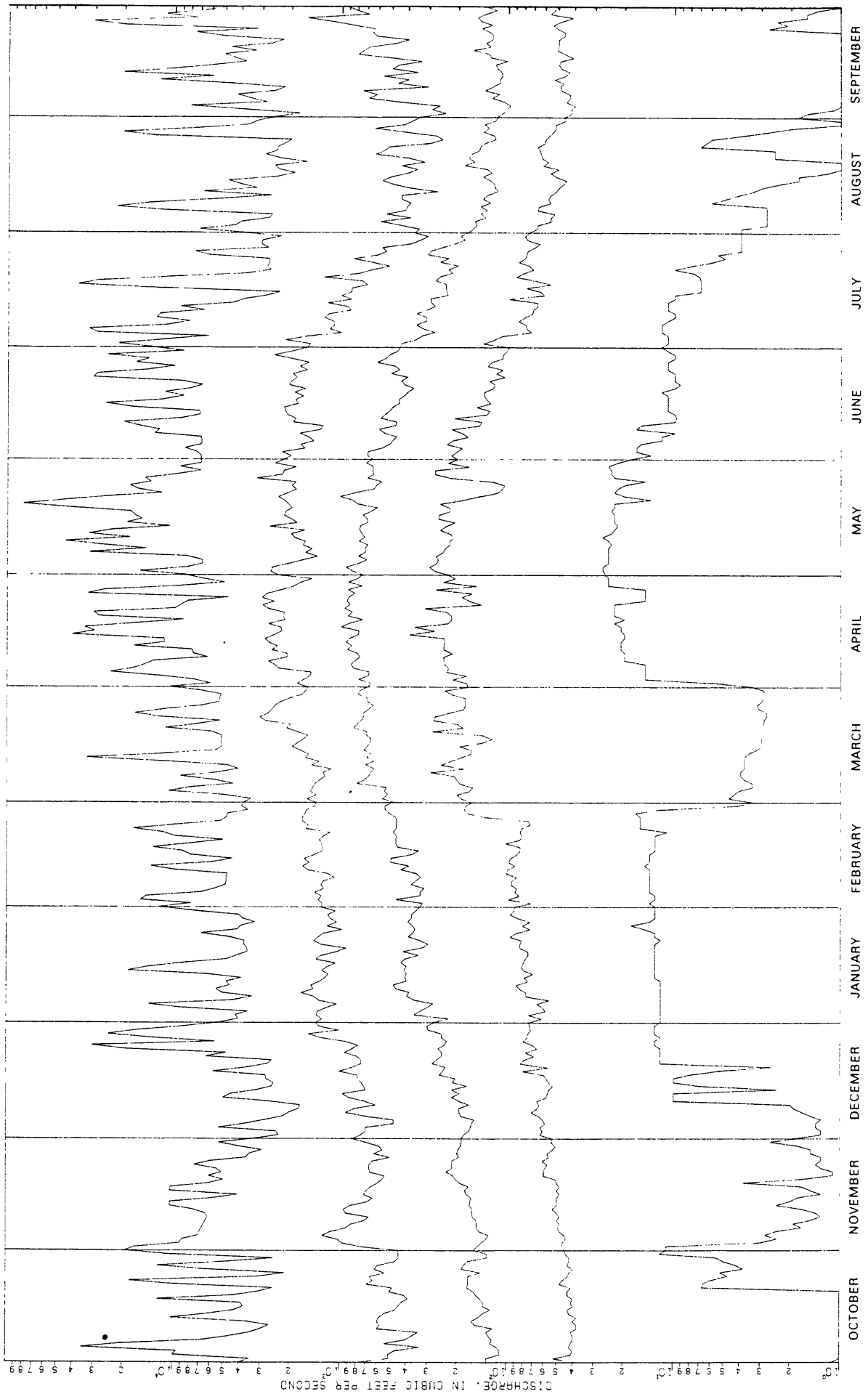
LITTLE SAC RIVER NEAR MORRISVILLE, NC



SAC RIVER NEAR STOCKTON. 110

06919000

1931

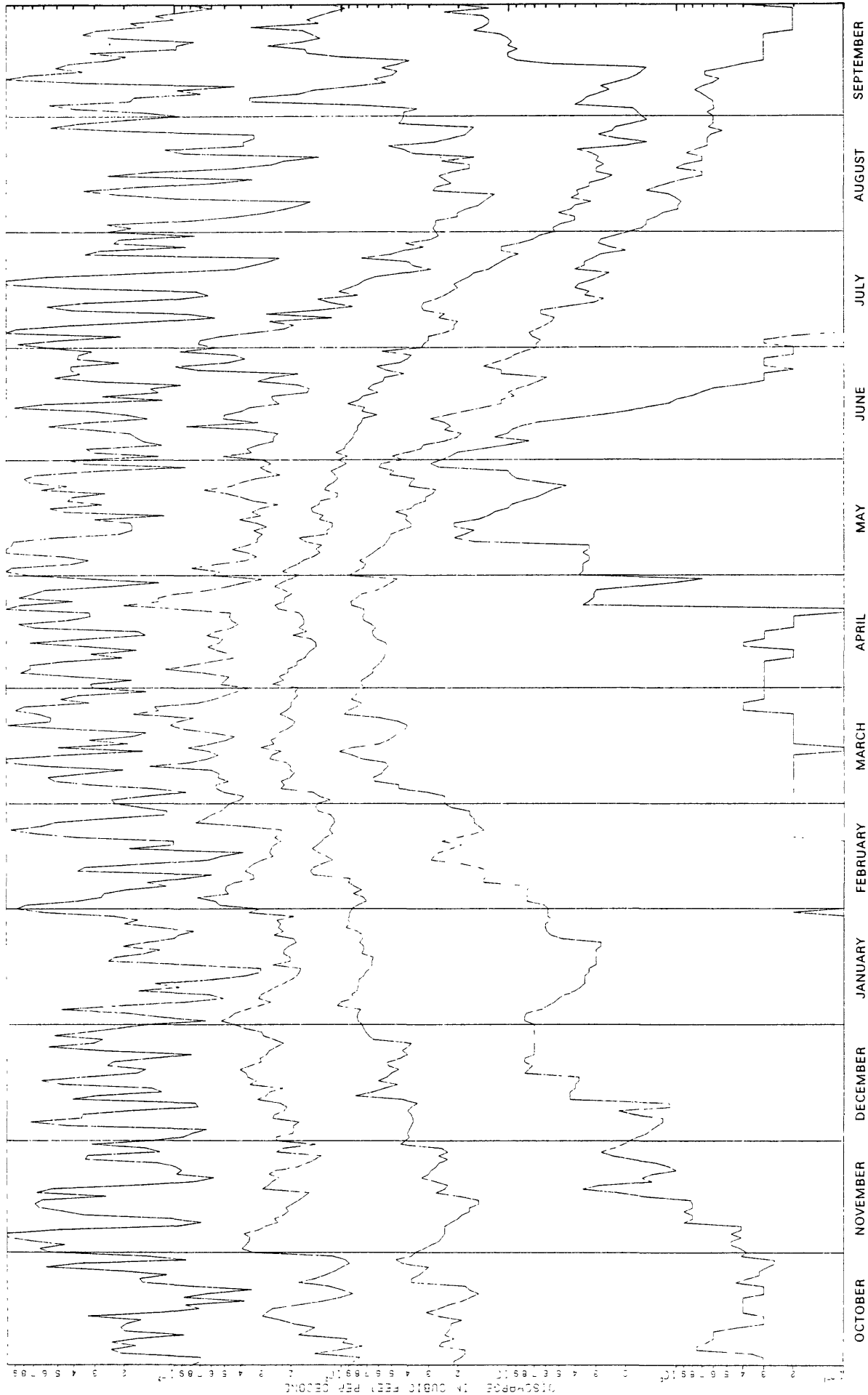


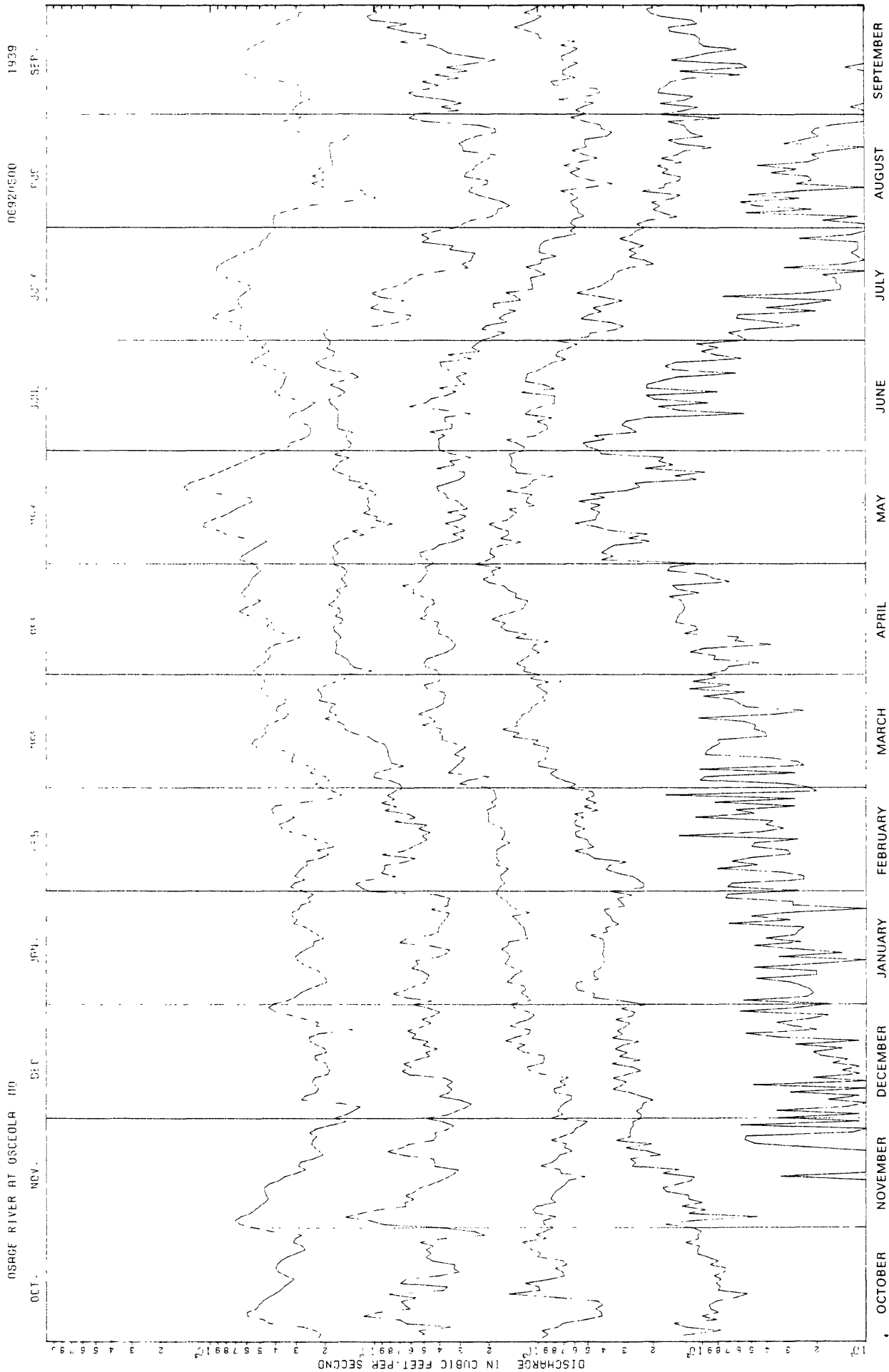
CEDAR CREEK NEAR PLEASANT VIEW, MO

05919500

1951

DURATION HYDROGRAPH PLOT - (C.C. 1950-1951) 29.4 PERCENT EXCEEDANCE





1939

06920000

JULY

JUNE

MAY

APRIL

MARCH

FEBRUARY

JANUARY

DECEMBER

NOVEMBER

OCTOBER

SEPTEMBER

AUGUST

JULY

JUNE

MAY

APRIL

MARCH

FEBRUARY

JANUARY

DECEMBER

NOVEMBER

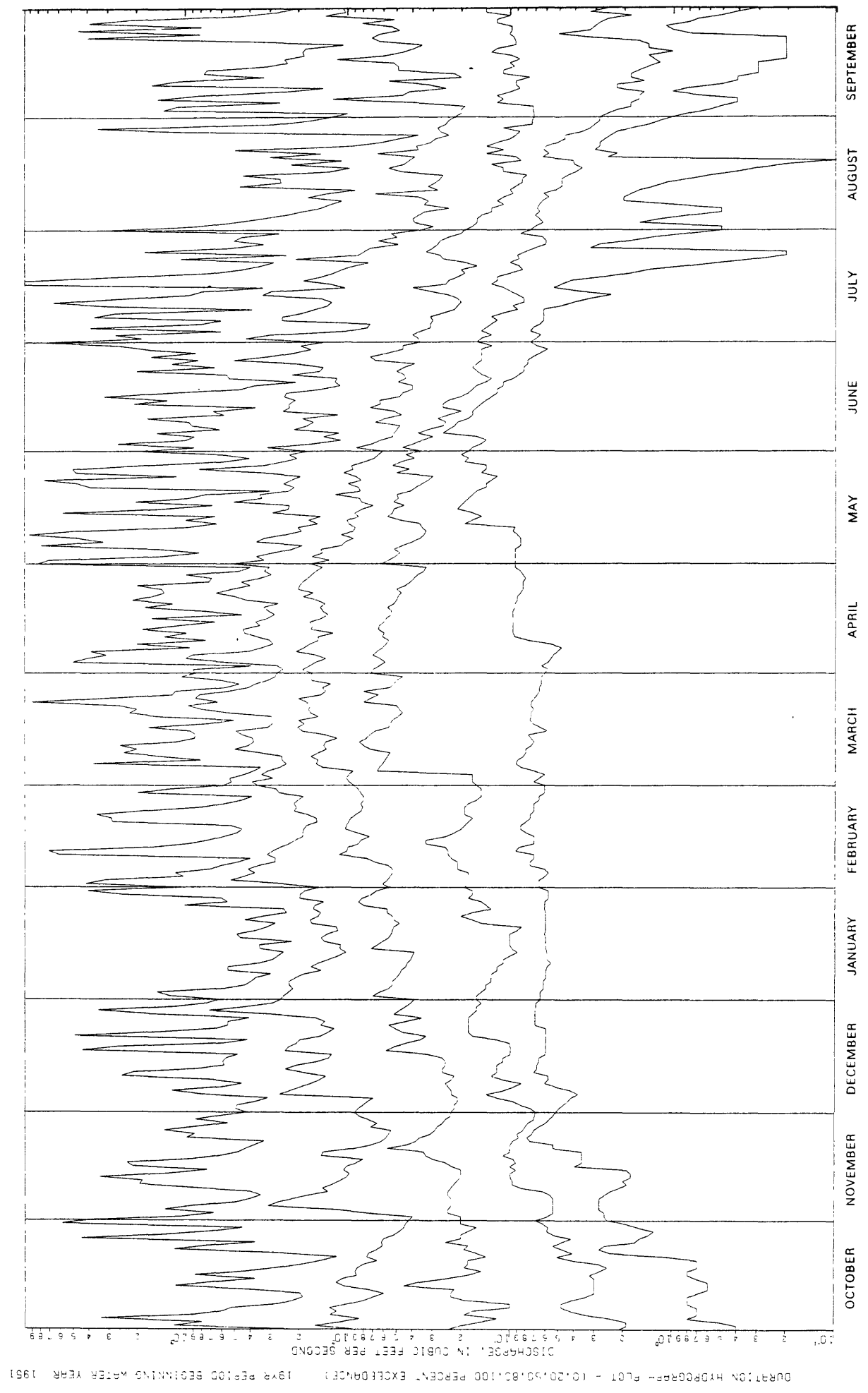
OCTOBER

104

POMME DE TERRE RIVER NEAR BOLIVAR, MO.

06921000

1951



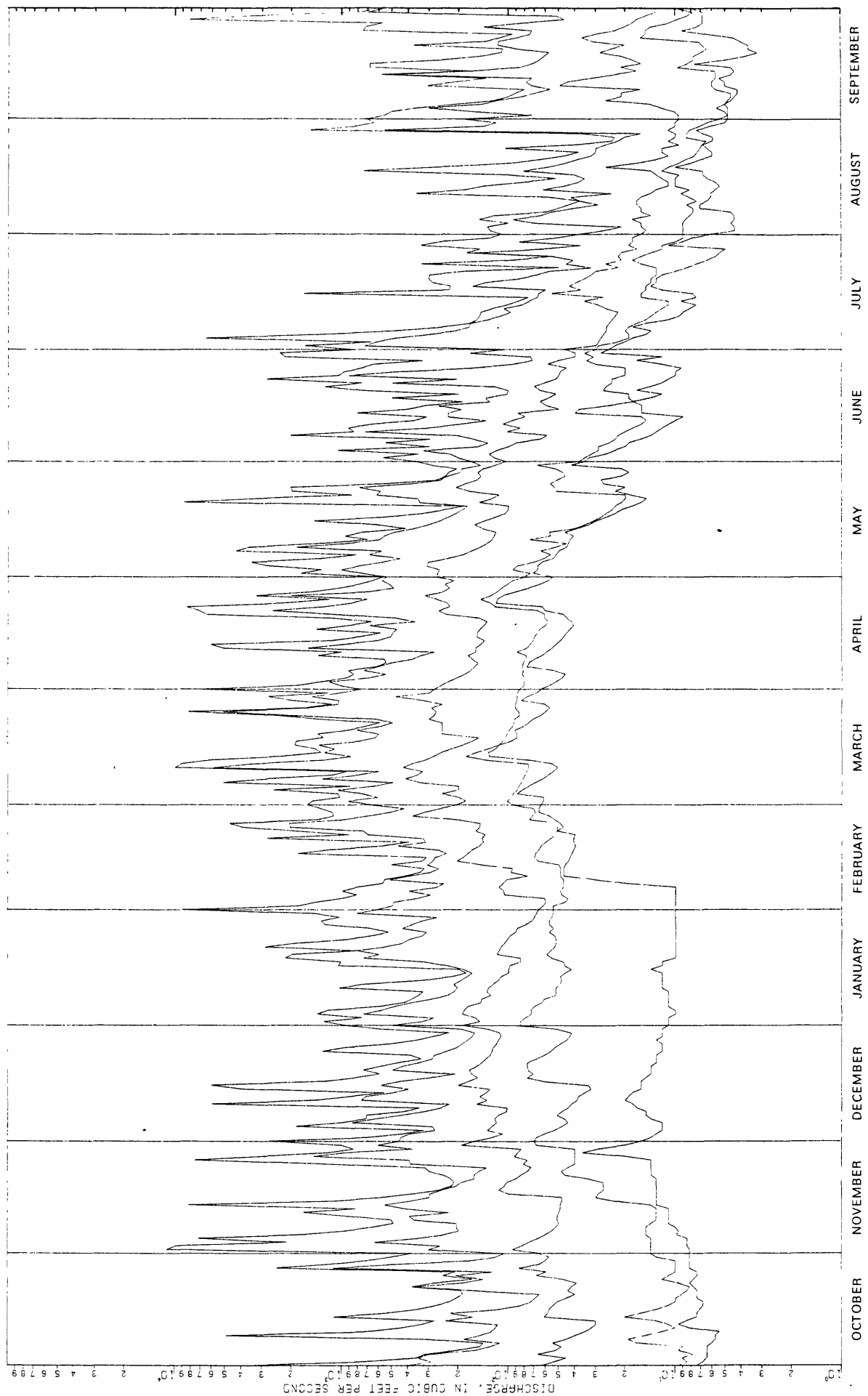
105

POMME DE TERRE RIVER NEAR POLK, MD

05921070

1971

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 99YR PERIOD BEGINNING WATER YEAR 1971

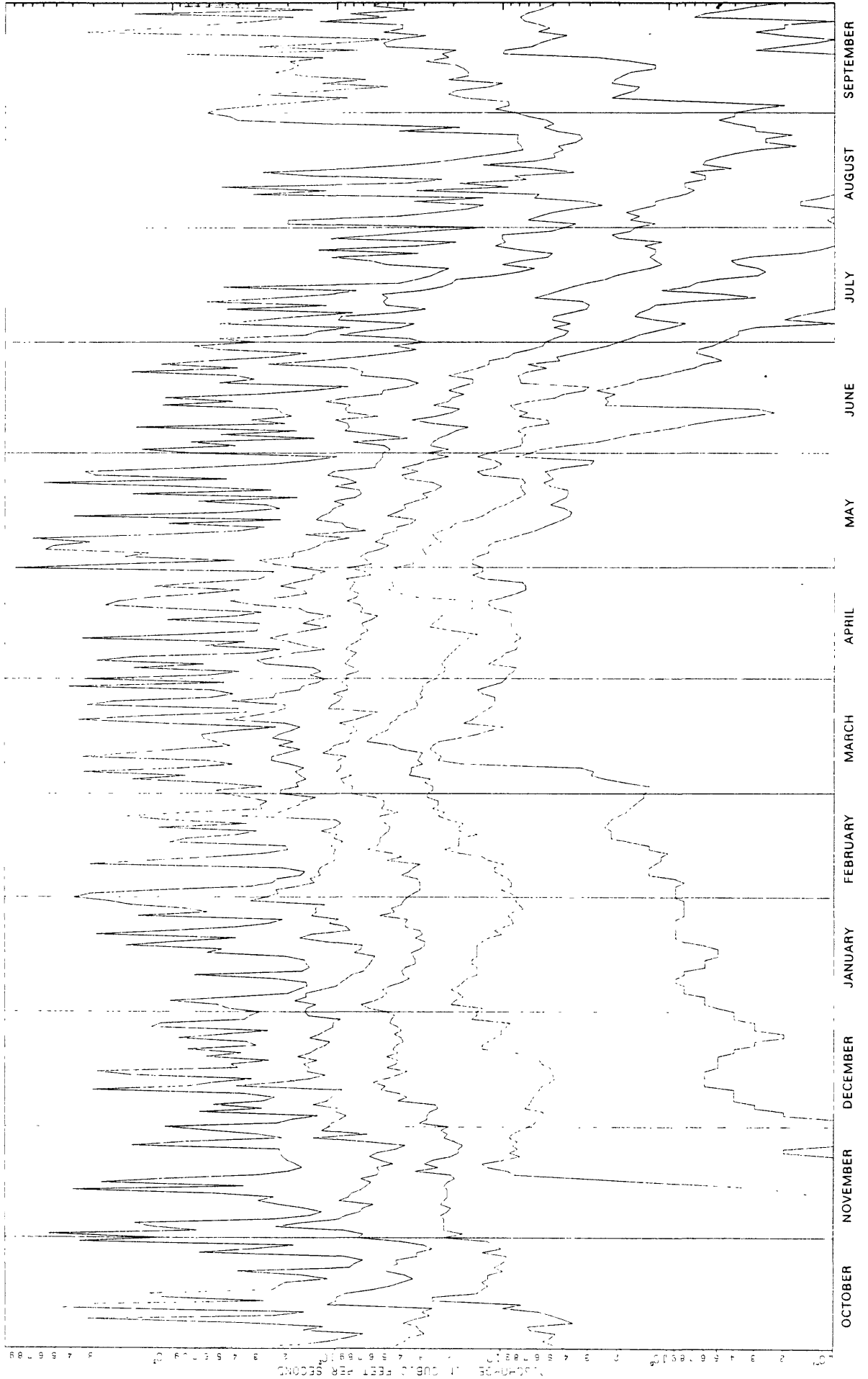


LINDSEY CREEK NEAR PULK. MO

05921200

1961

DURATION HYDROGRAPH PLOT (0.20150,00,100 PERCENT EXCEEDENCE) 19K PERIOD BEGINNING WATER YEAR 1961

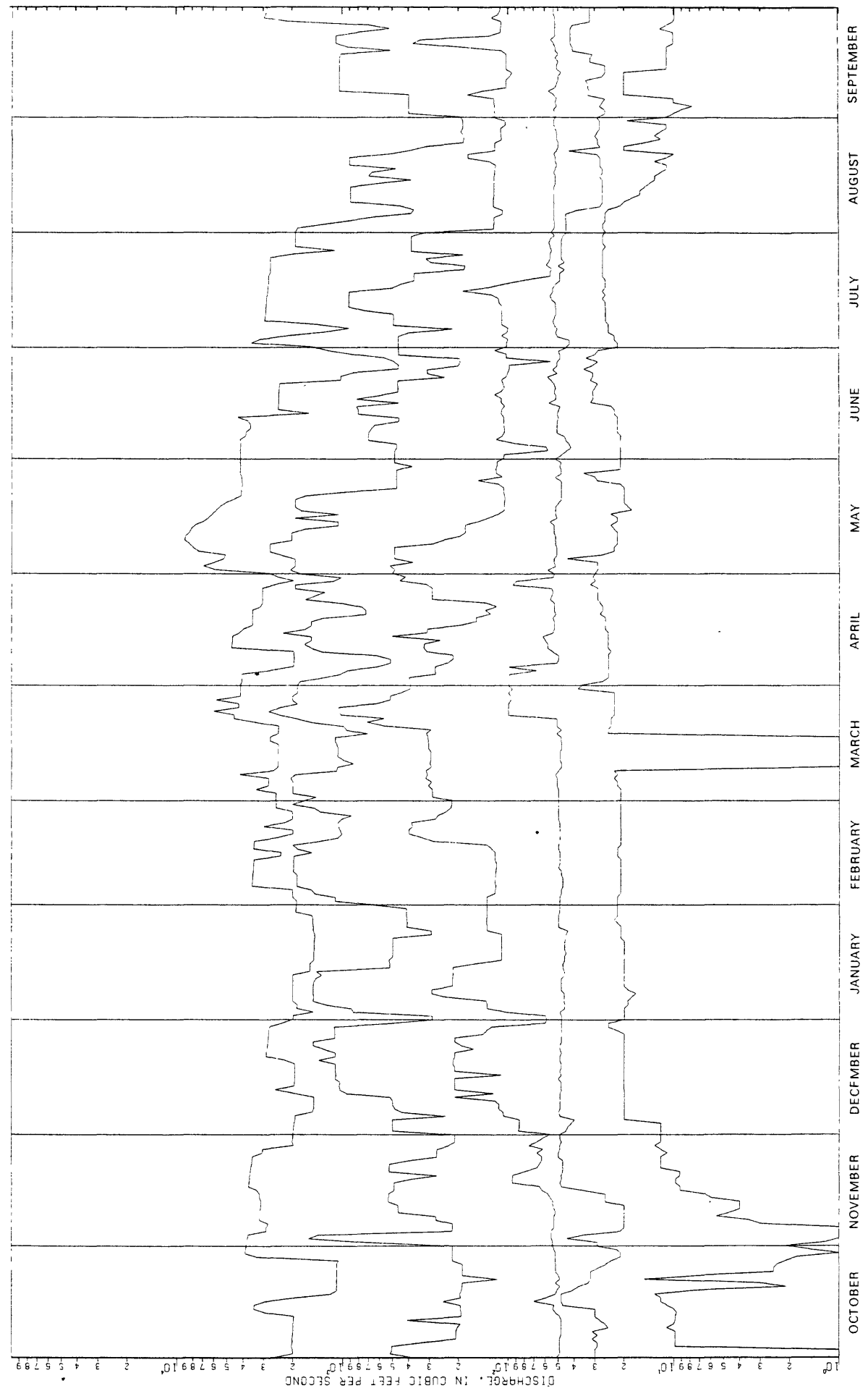


POMME DE TERRE RIVER NEAR HERMITAGE, MO.

06921350

1961

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 18yr PERIOD BEGINNING WATER YEAR 1961



394P FIELD, BROWN, AND



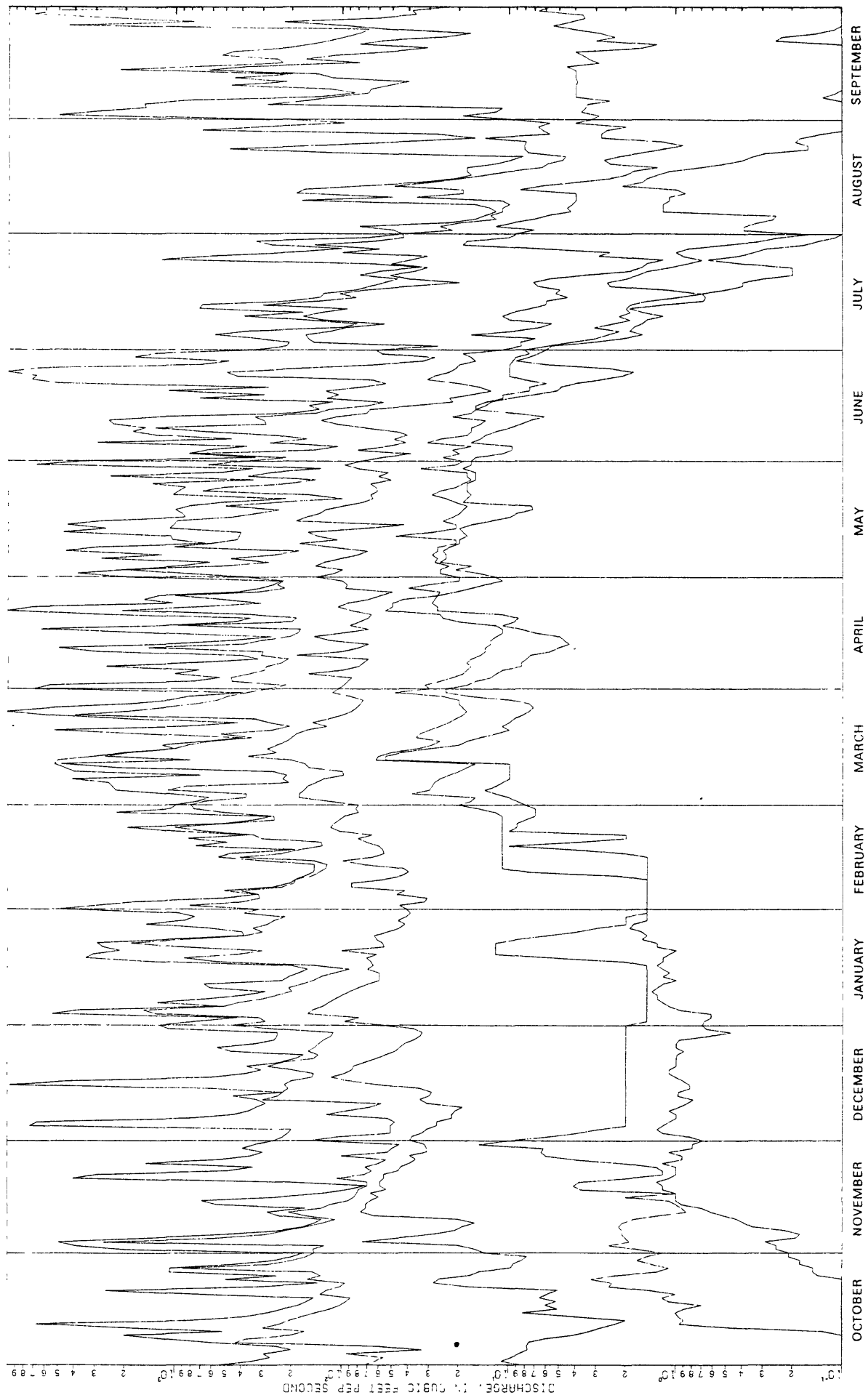
109

SOUTH GRAID RIVER AT ARCHIE, MO

06921500

1971

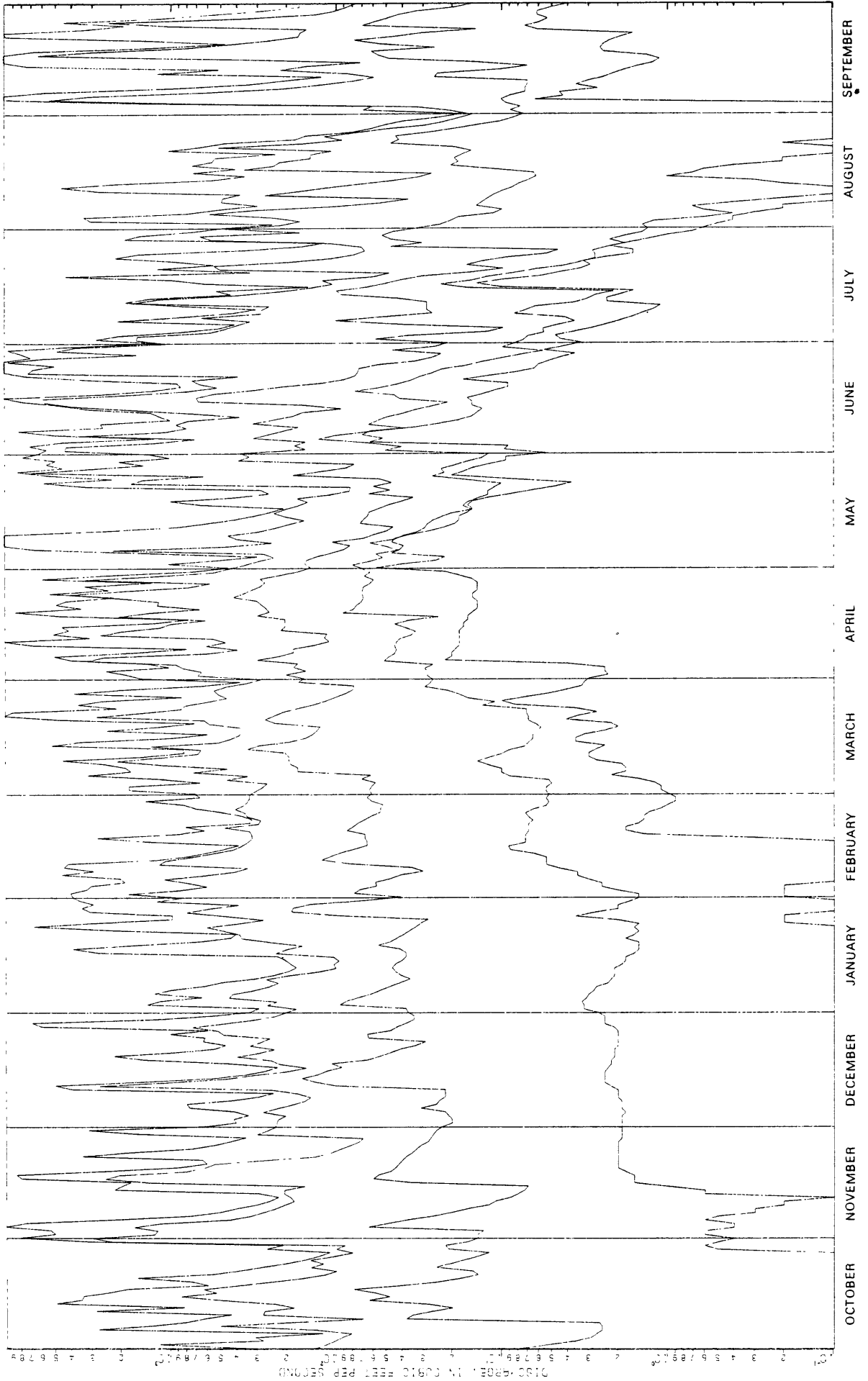
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 3 DAY PERIOD BEGINNING WATER YEAR 1971



1961

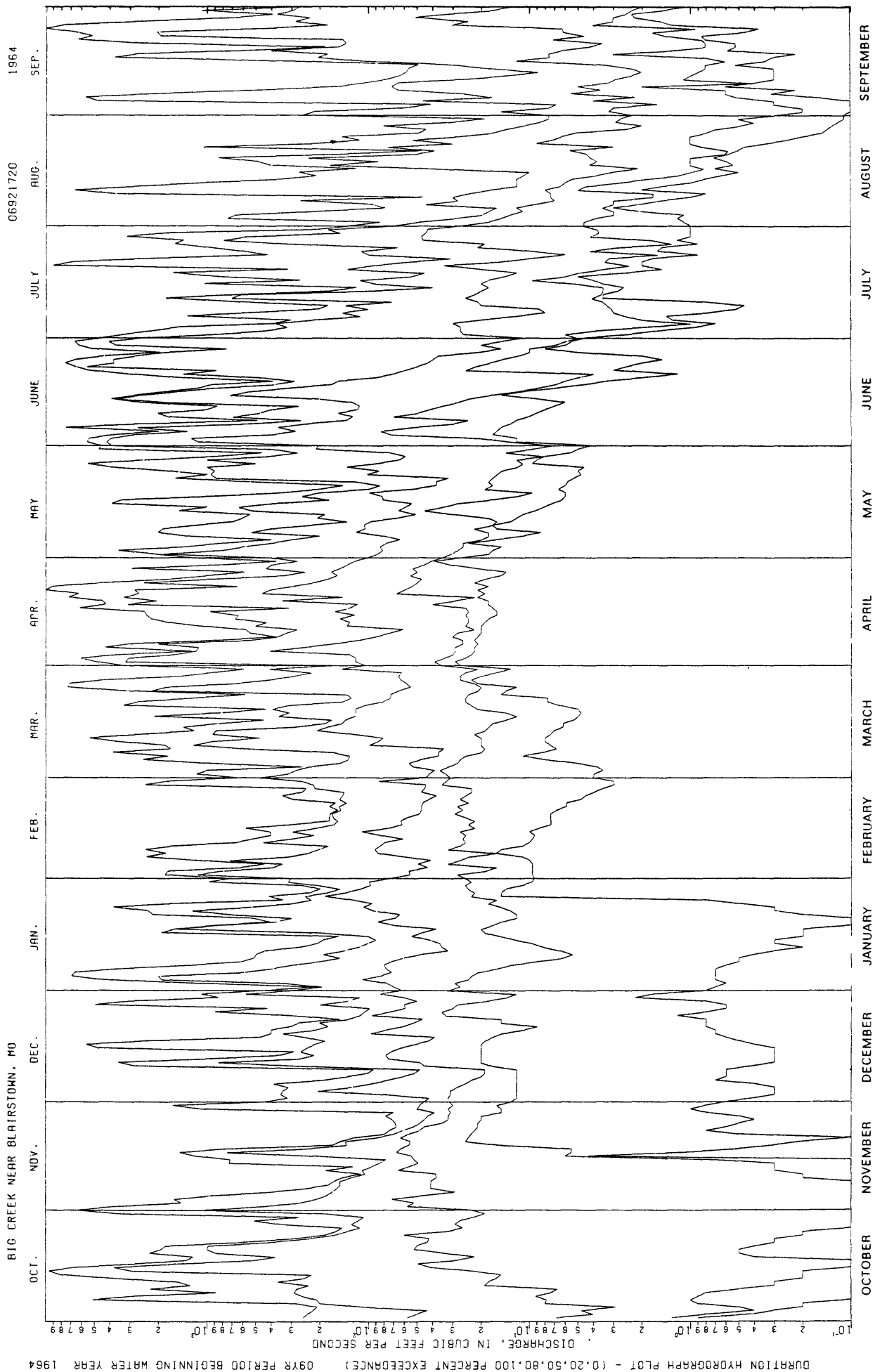
06921600

SOUTH GRAND RIVER AT URICH, MO



09-4 PERIOD BEGINNING AFTER YEAR 1961

111

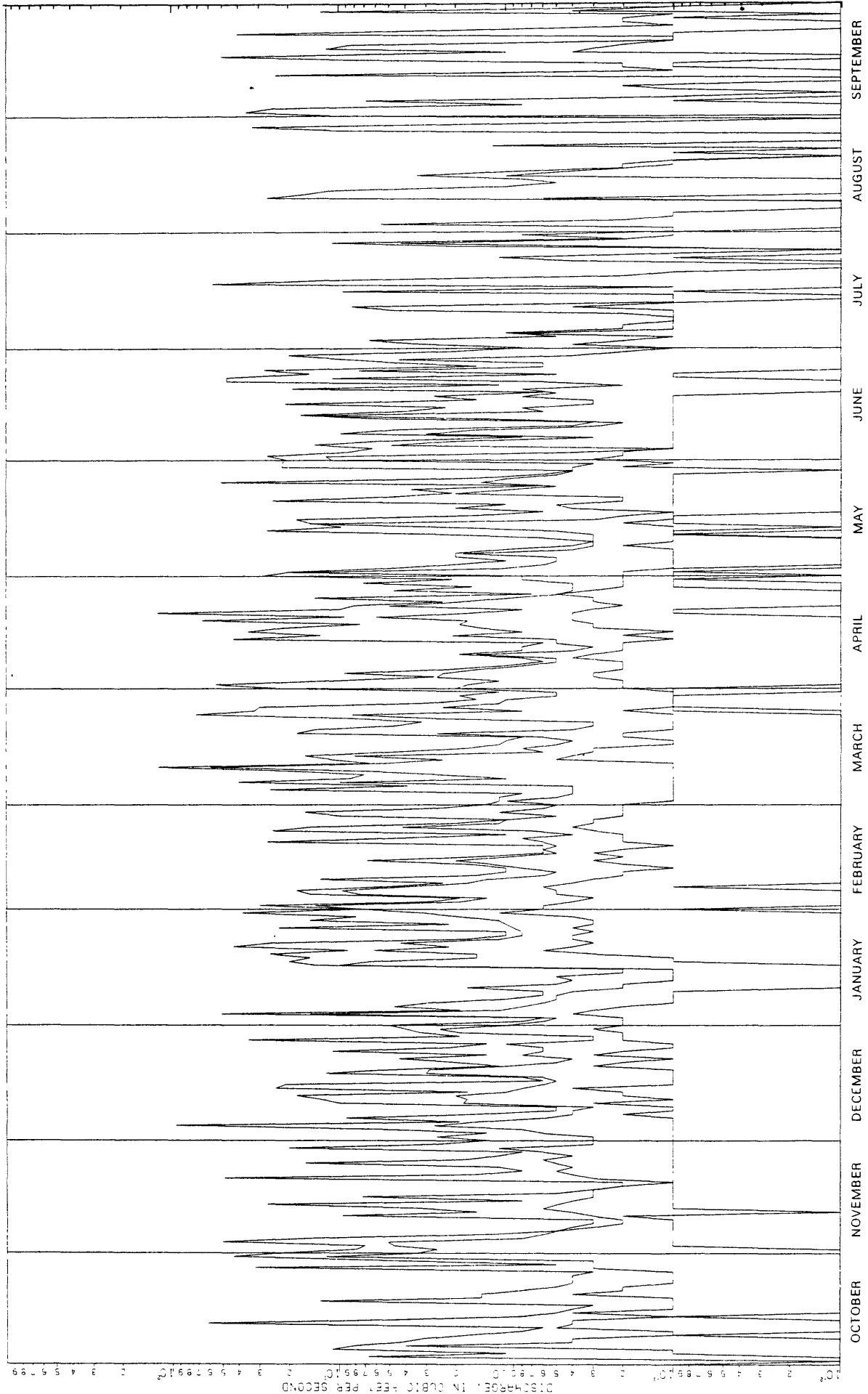


BRUSHY CREEK NEAR BLAIRSTOWN, MD

06921740

1967

DURATION: 10.00.50.00.100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1967

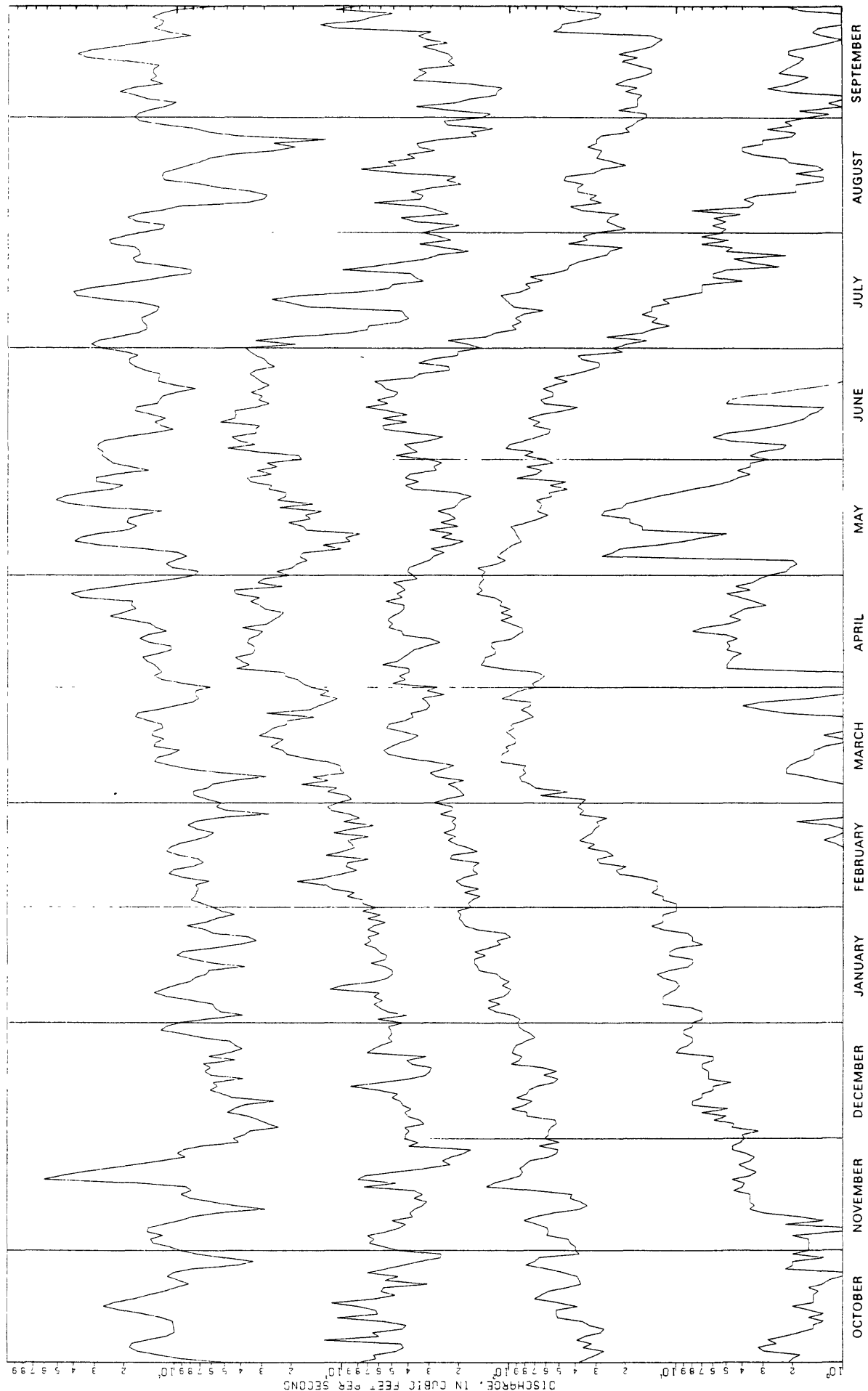


SOUTH GRAND RIVER NEAR BROWNINGTON, MO

06922000

1923

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1923

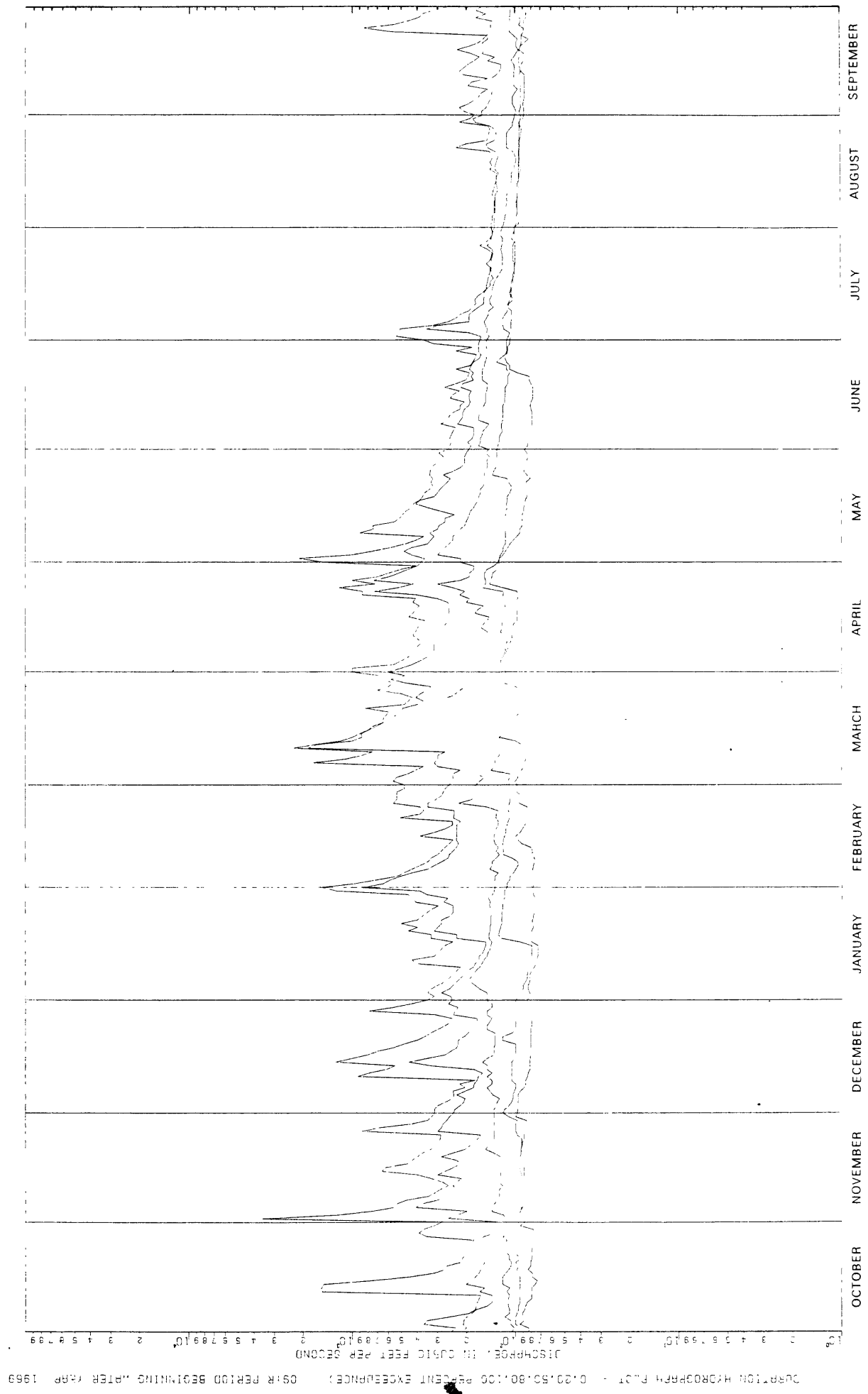


115

BENNETT SPRING AT BENNETT SPRINGS MD

05923500

1969



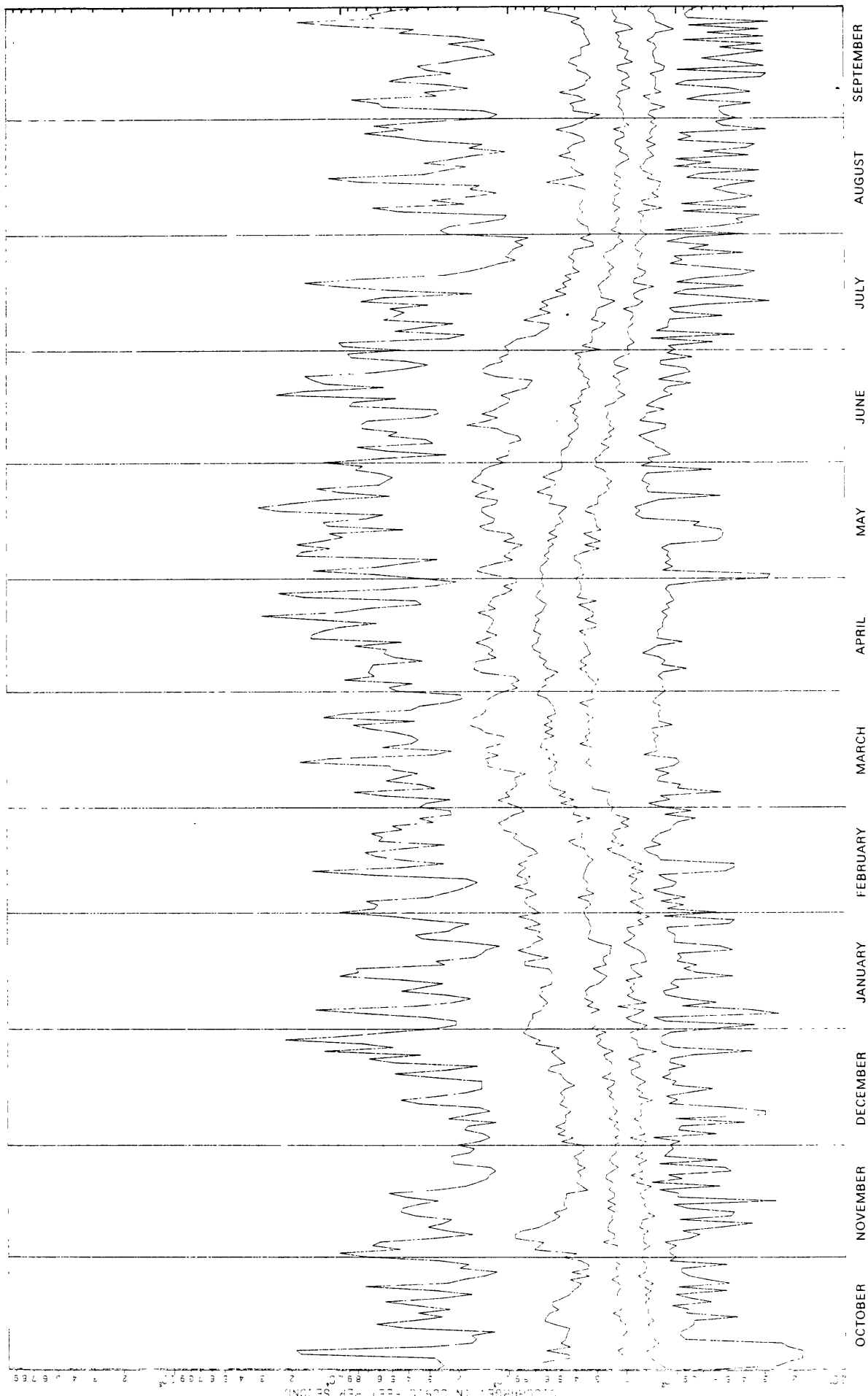
DURATION HYDROGRAPH PLCT - 0.00, 50, 100 PERCENT EXCEEDANCE 09:10 PERIOD BEGINNING AFTER YEAR 1969

NIJINGUA RIVER NEAR DECATURVILLE, MO

06324000

1931

DURATION - 6000000000 PERCENT ELEVATION 8000 PERCENT BEGINNING WATER YEAR 1931

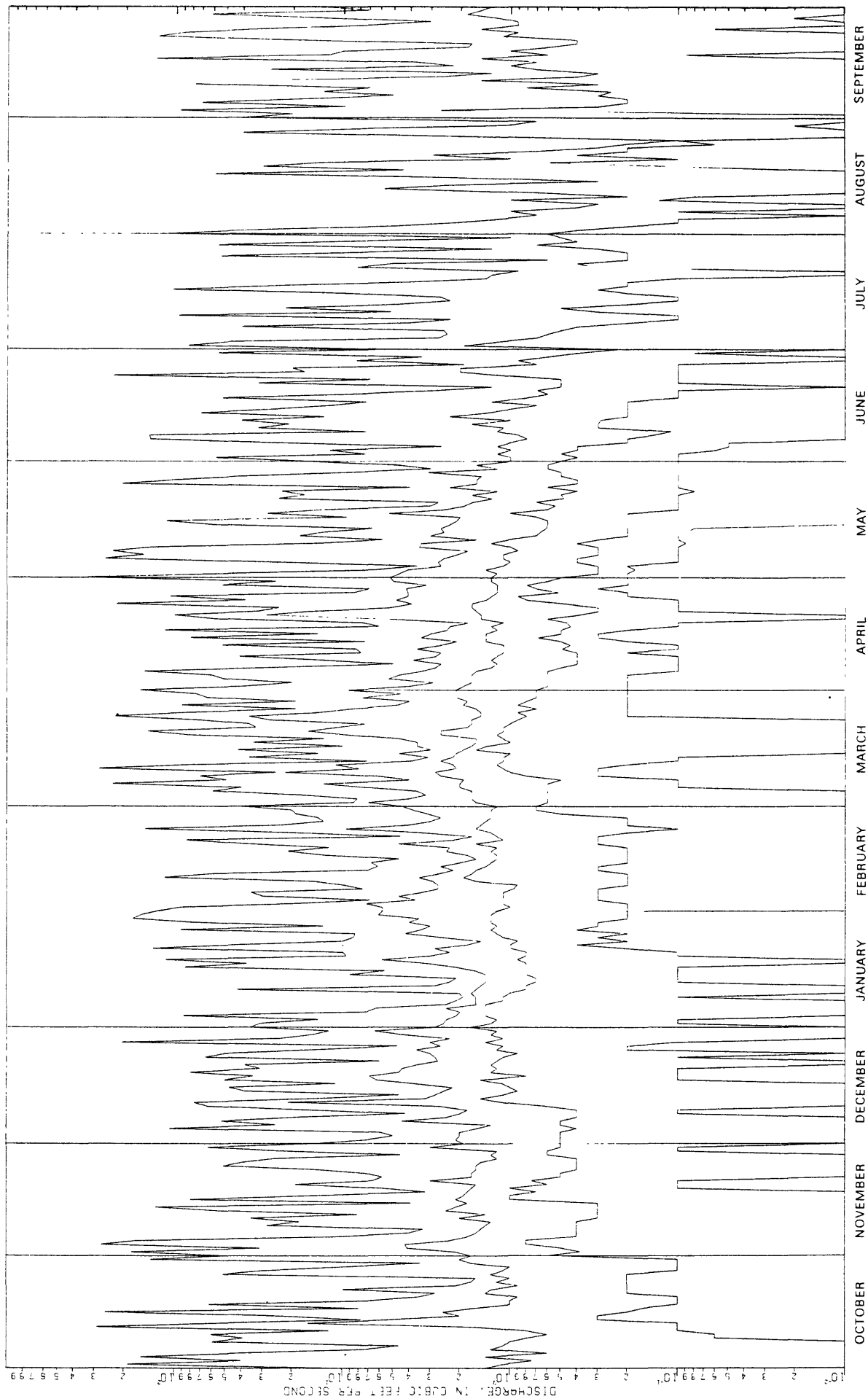


STARKS CREEK AT PRESSION MO

06925200

1958

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT FLOOD) 19R PERIOD BEGINNING WATER YEAR 1958

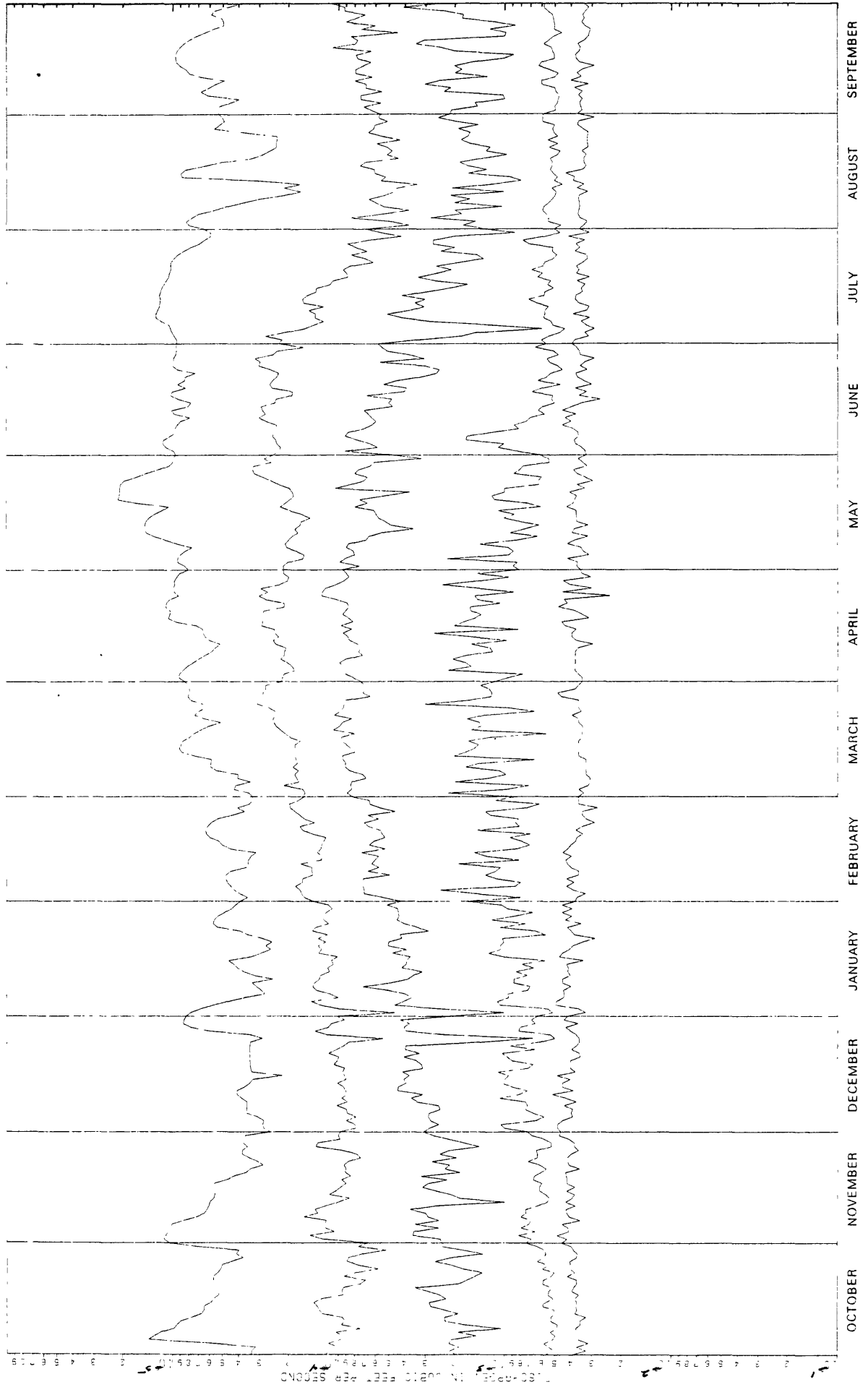


OSAGE RIVER NEAR BONEILL, MISSOURI

05926000

1931

DEPRESSION 4-2803FPM PLOT - 10.00, 30.00, 100 PERCENT EXPERIENCE 49% PERIOD BEGINNING WATER YEAR 1931

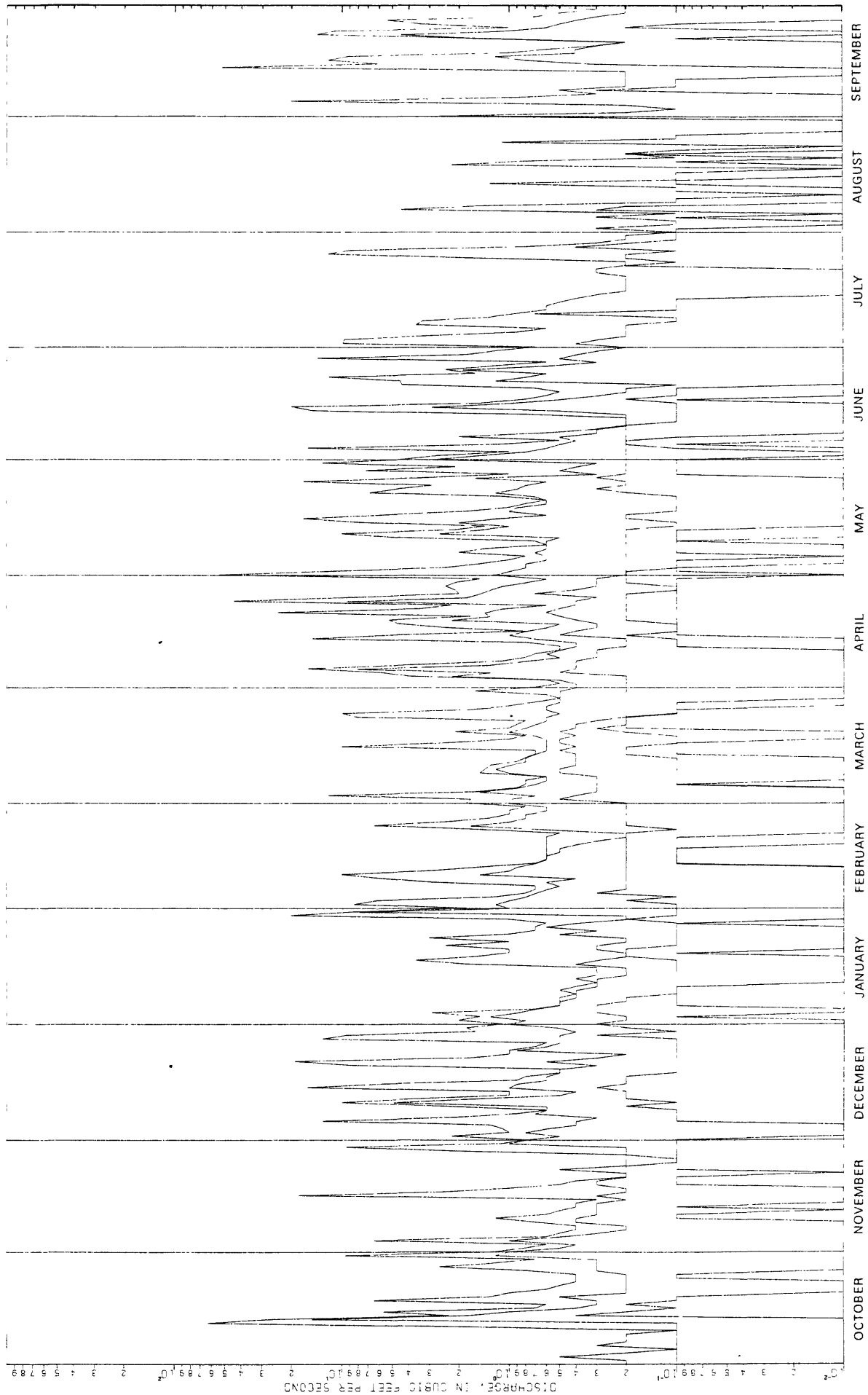


1964

06.026200

VAN CLEVE BRANCH NEAR META RD

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) OVER PERIOD BEGINNING WATER YEAR 1964

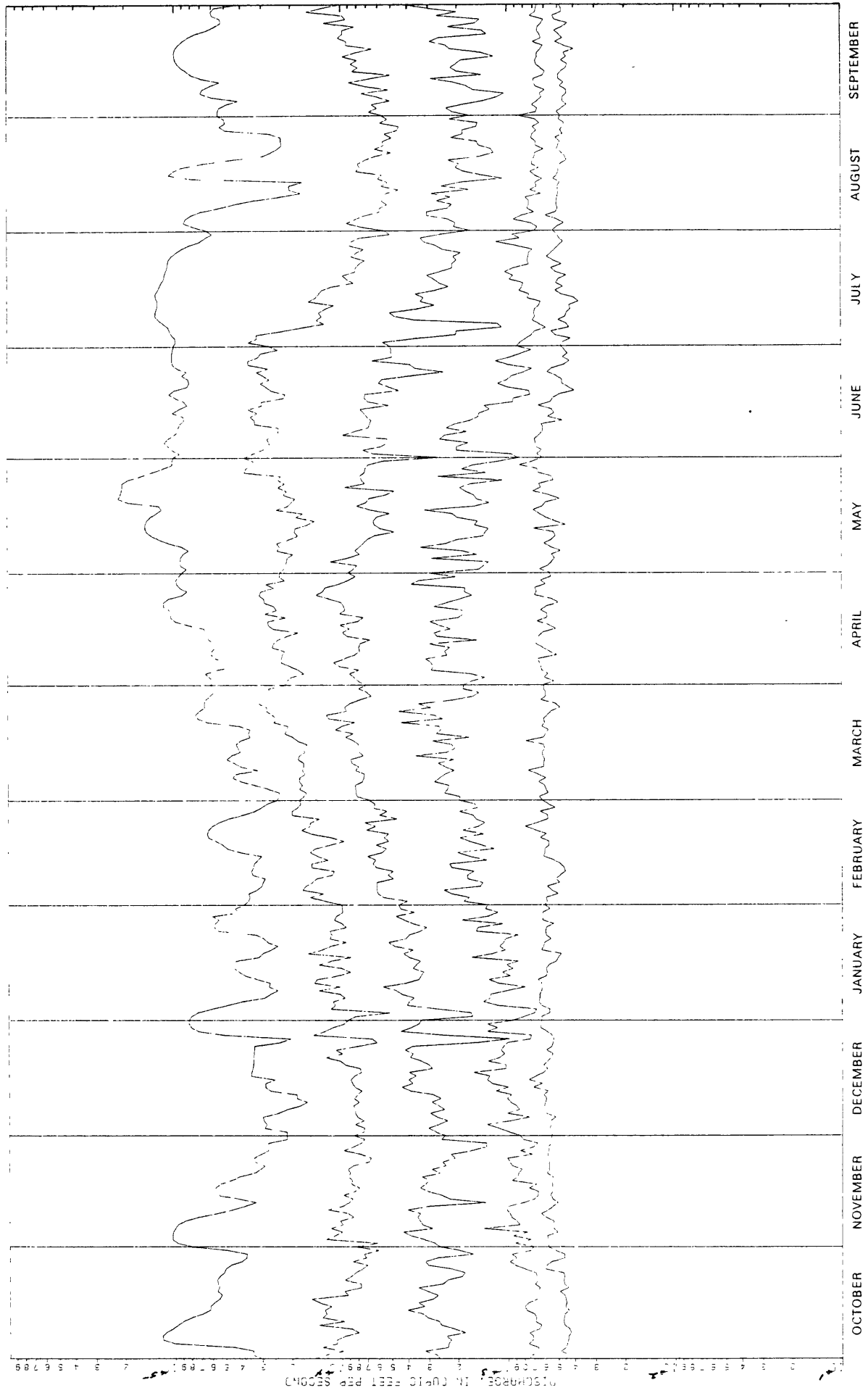


1934

06926500

OSAGE RIVER NEAR ST. THOMAS, MISSOURI

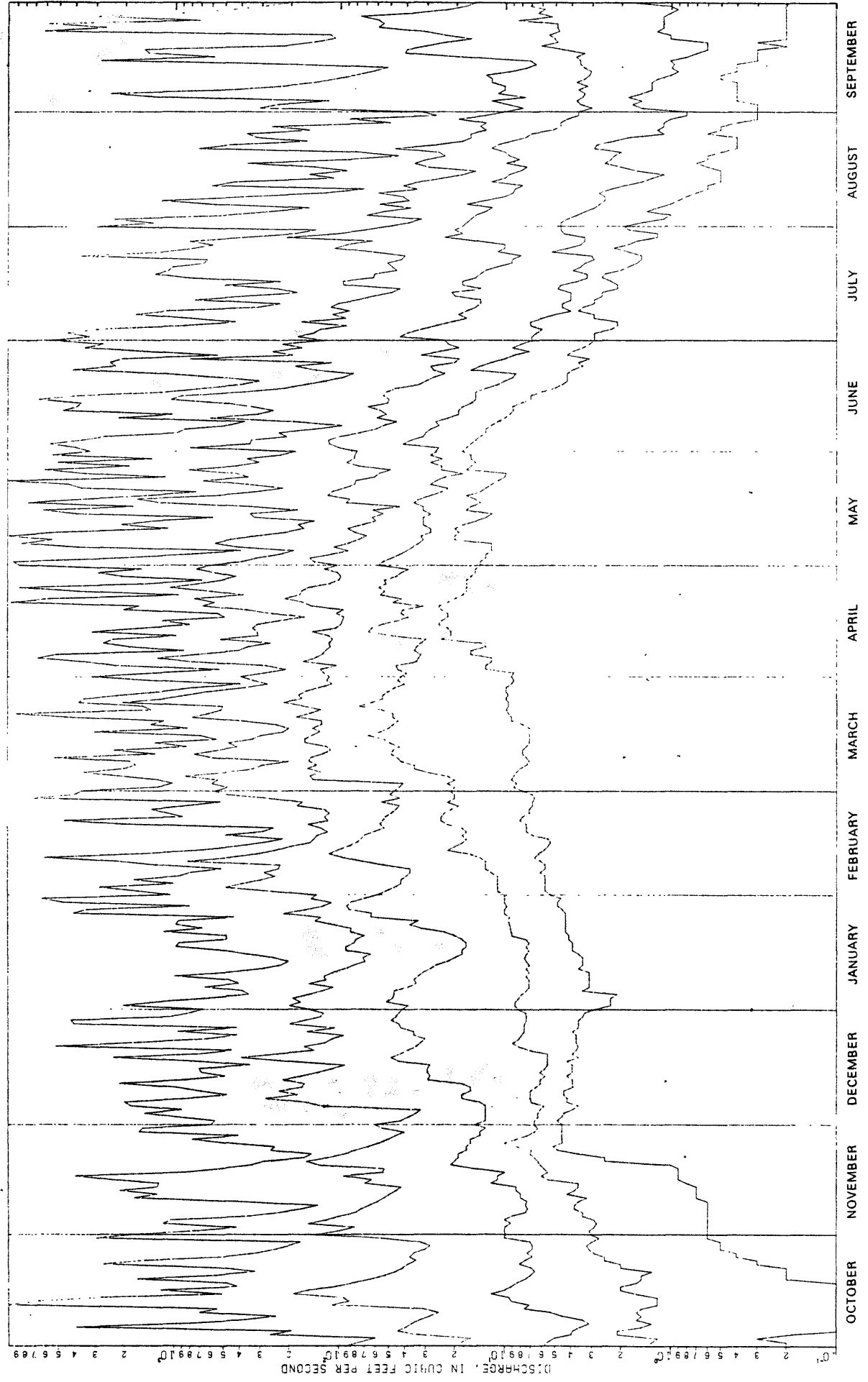
DURATION: 10.00-50.00 PERCENT EXCEEDENCE 39YR PERIOD BEGINNING WATER YEAR 1934



06927000 1952

MARIES RIVER AT WESTPHALIA, MO.

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 1948 PERIOD BEGINNING WATER YEAR 1952

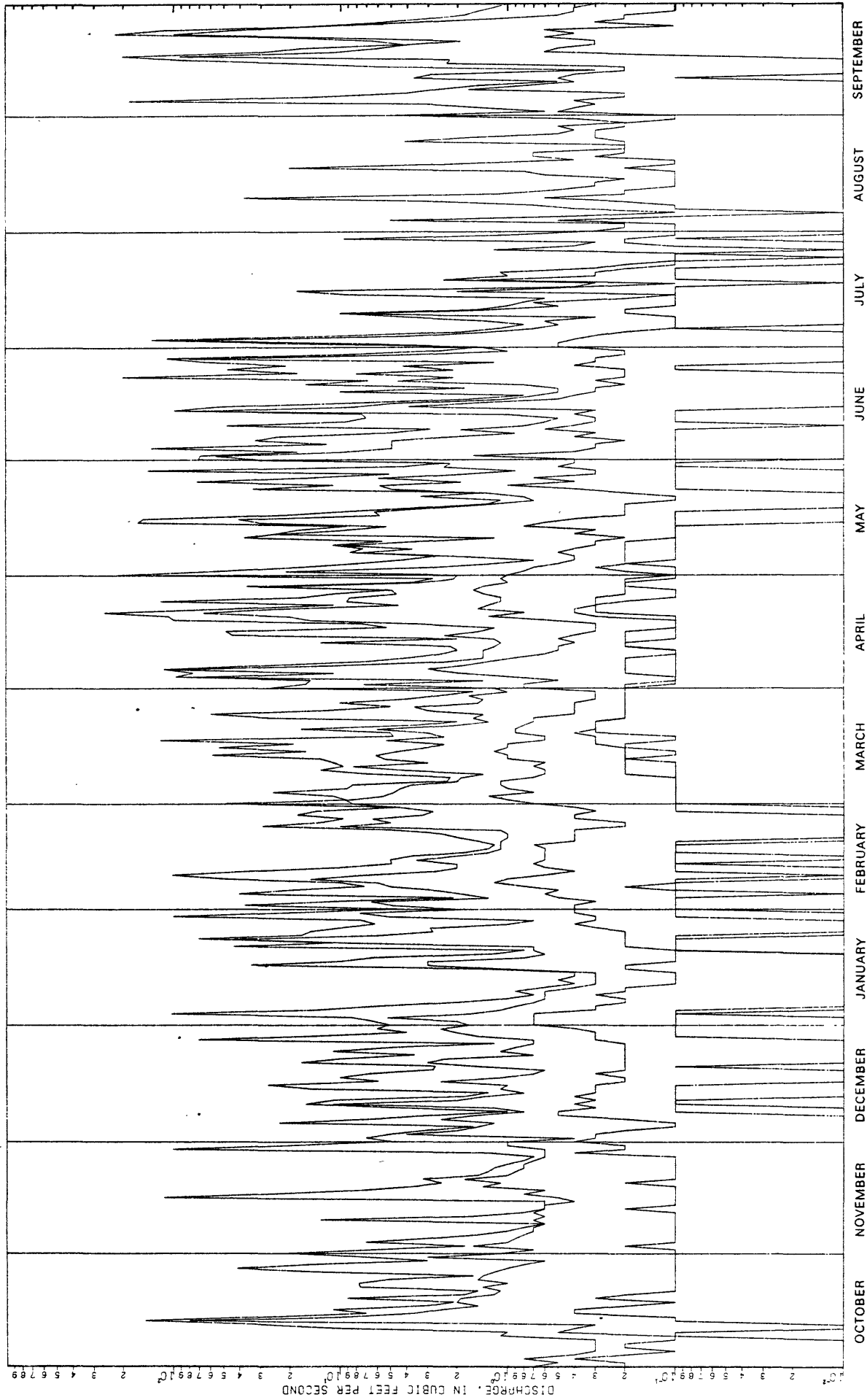


BIG HOLLOW NEAR FULTON MO

06927200

1964

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1964

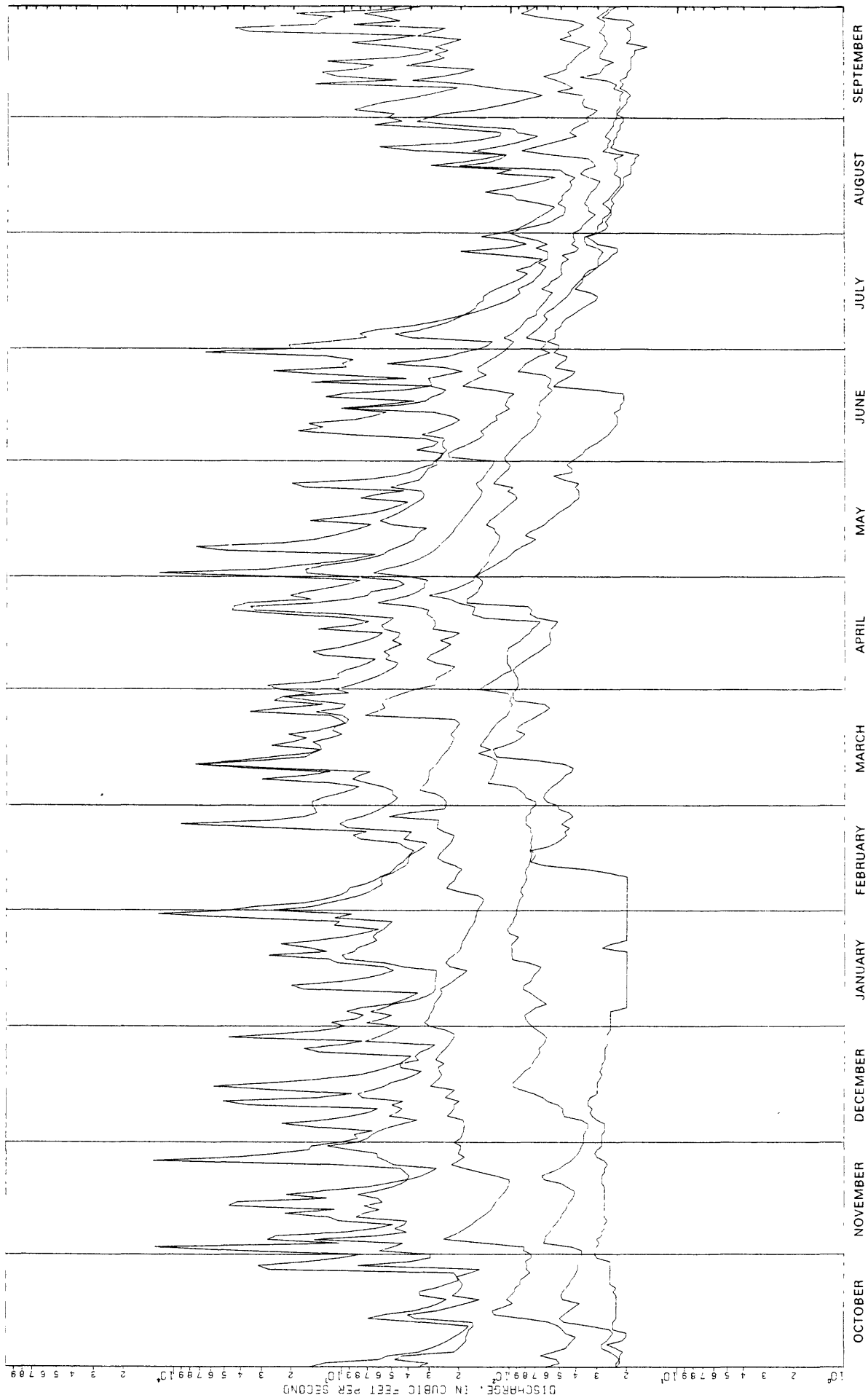


OSAGE FORK GASCONADE RIVER AT DRINCS, MO

05927860

1969

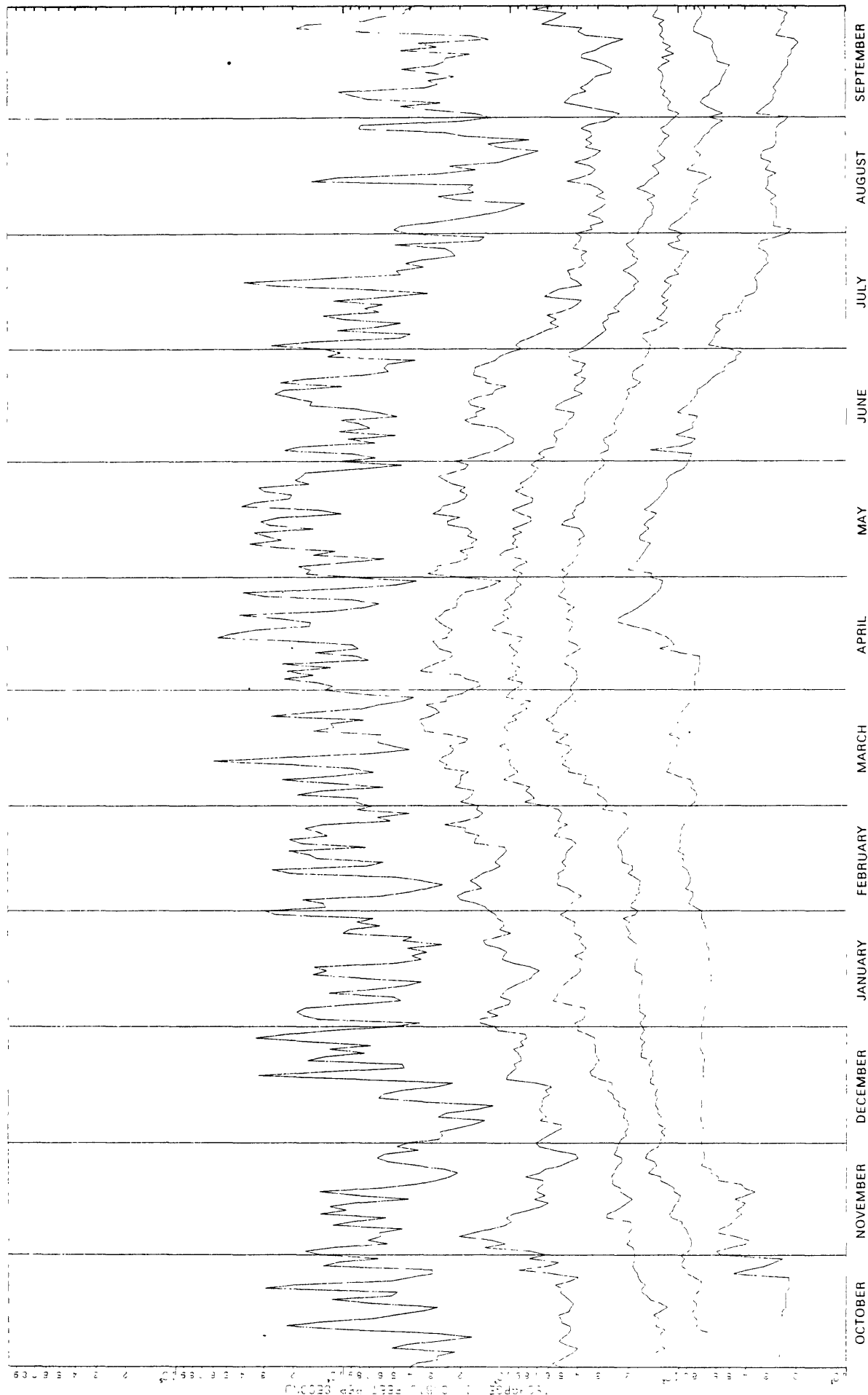
DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE: 09YR PERIOD BEGINNING WATER YEAR 1969



1933

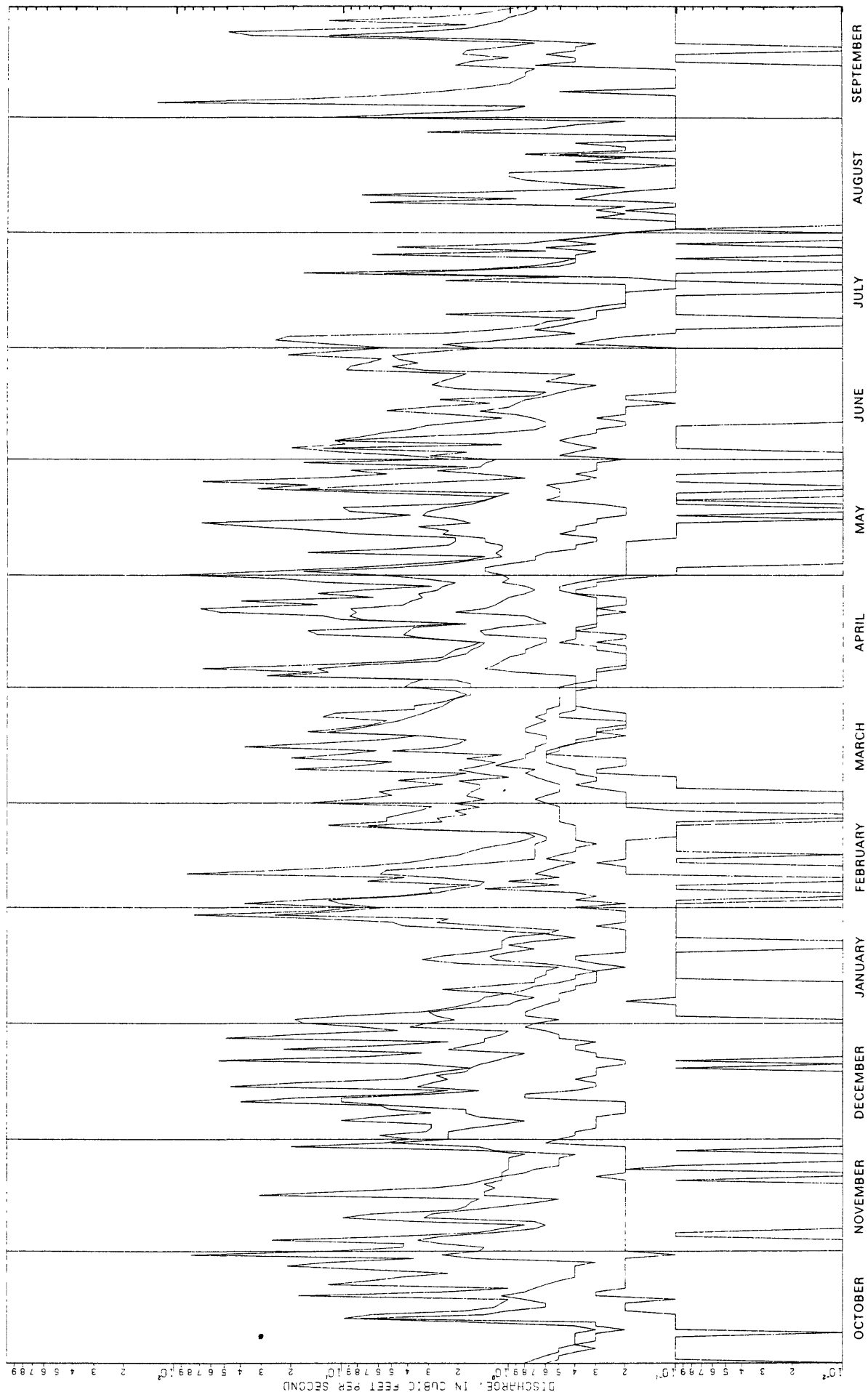
HC-924007

GOSCONUDF RIVER NEAR HAZEL GREEN, MICHIGAN.



124

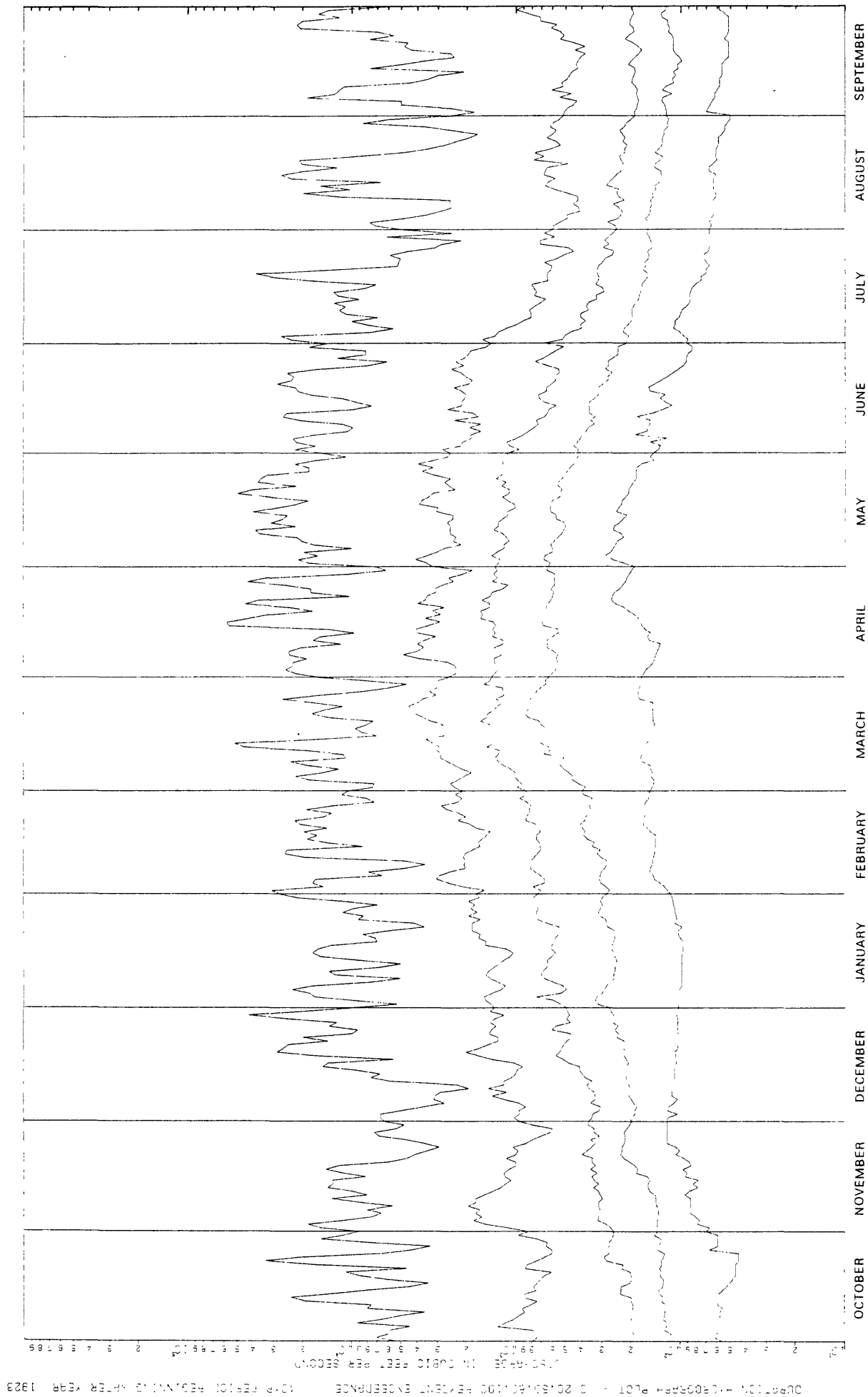
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1964



OSCORDE RIVER NEAR RHINESVILLE, MISSOURI

959283.00

1923



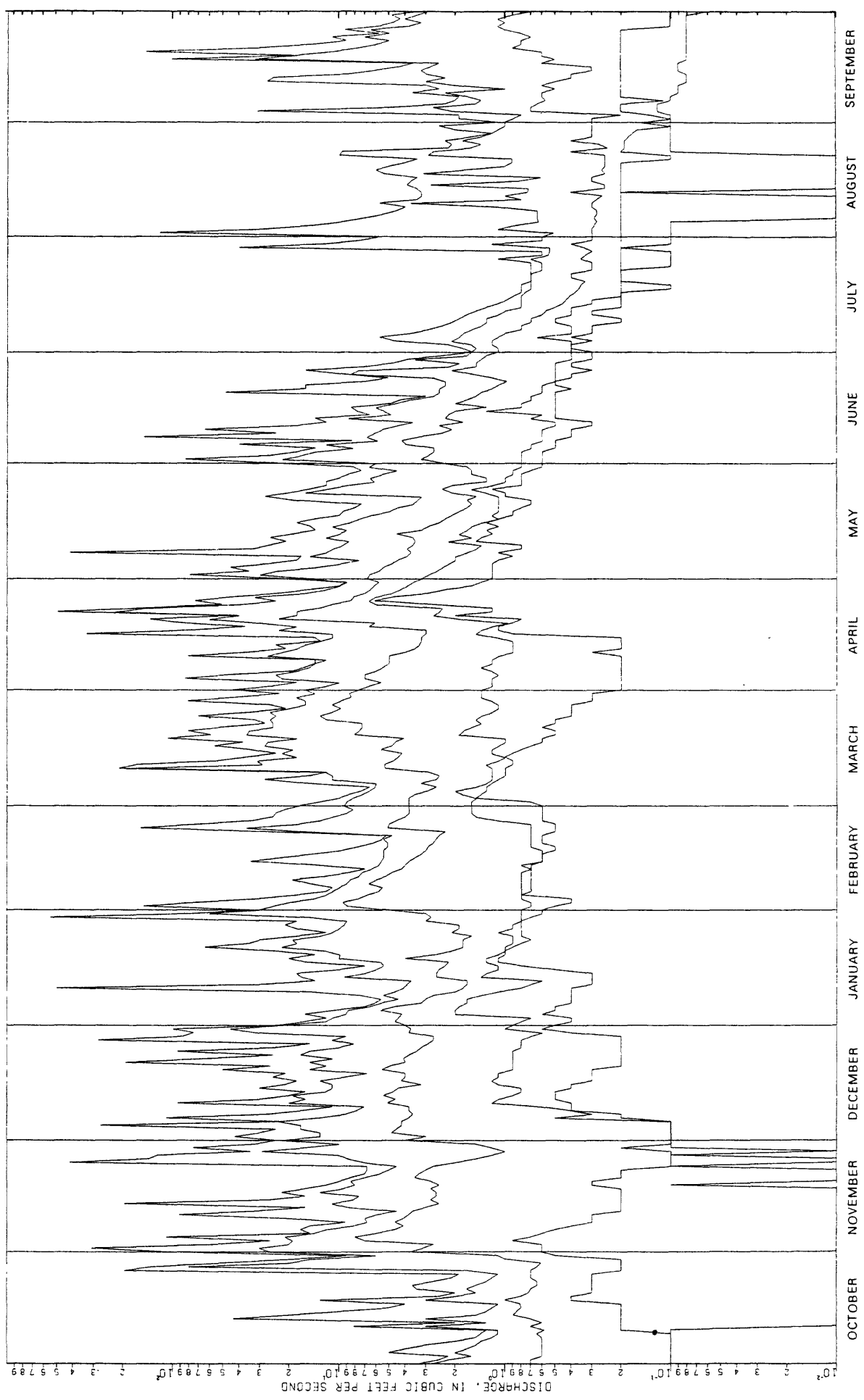
127

1968

06928700

BEELER BRANCH NEAR CABOOL MO

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1968

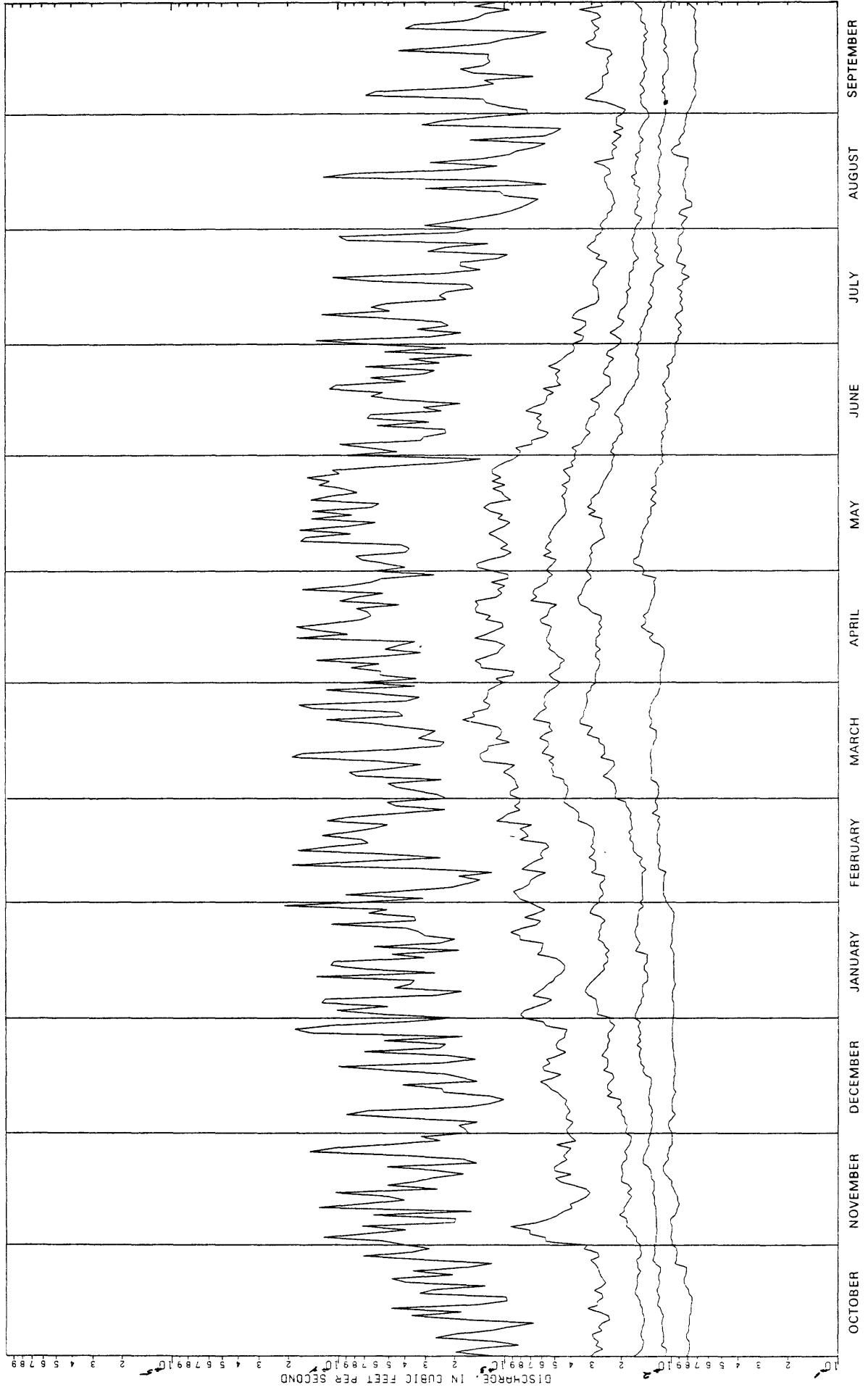


BIG PINEY RIVER NEAR BIG PINEY, MISSOURI

06930000

1931

DURATION HYDROGRAPH PLOT - 10,20,50,80,100 PERCENT EXCEEDANCE 49YR PERIOD BEGINNING WATER YEAR 1931

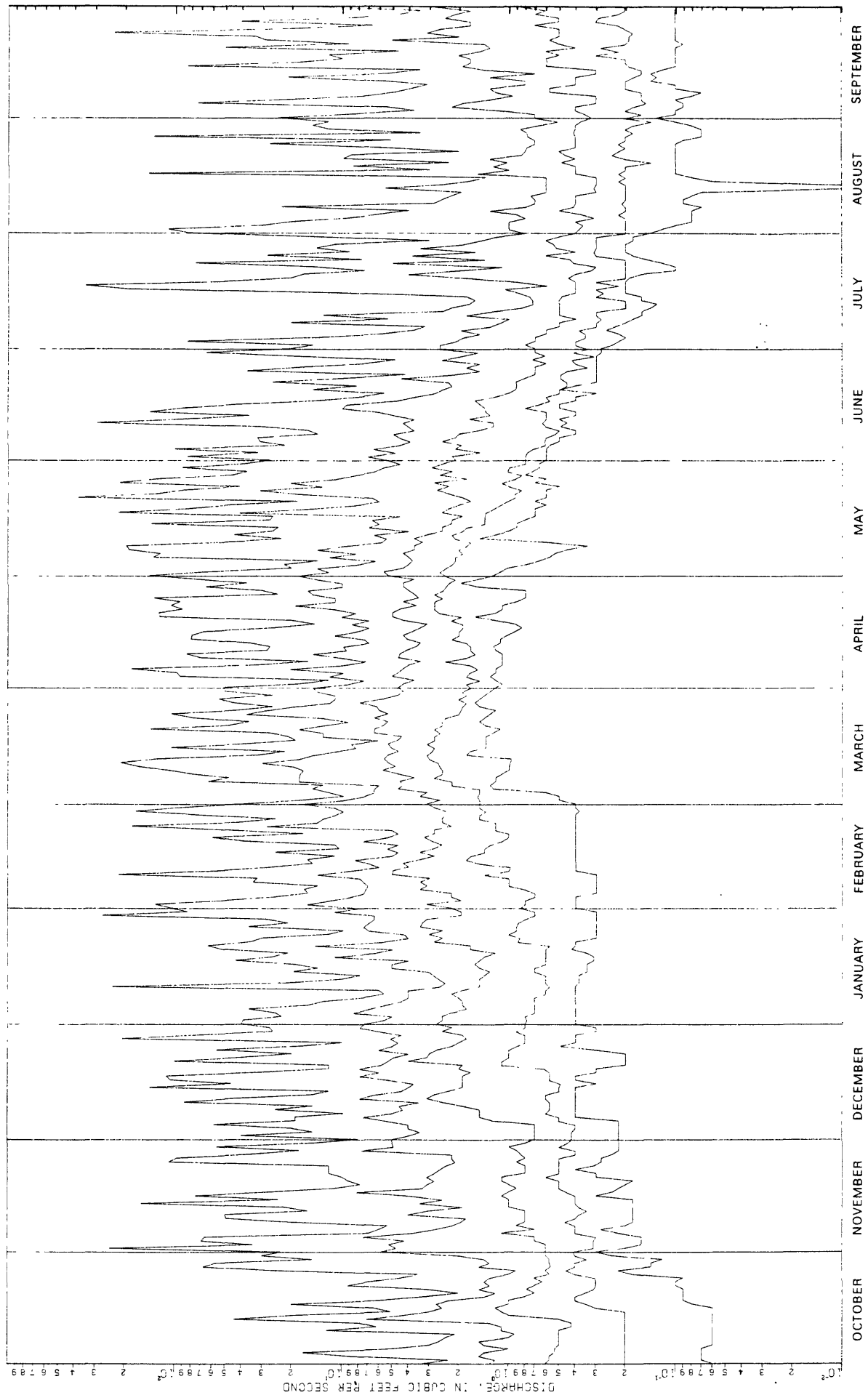


LITTLE REAVER CR NR ROLLA. MO

06931500

1957

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 15YR PERIOD BEGINNING WATER YEAR 1957

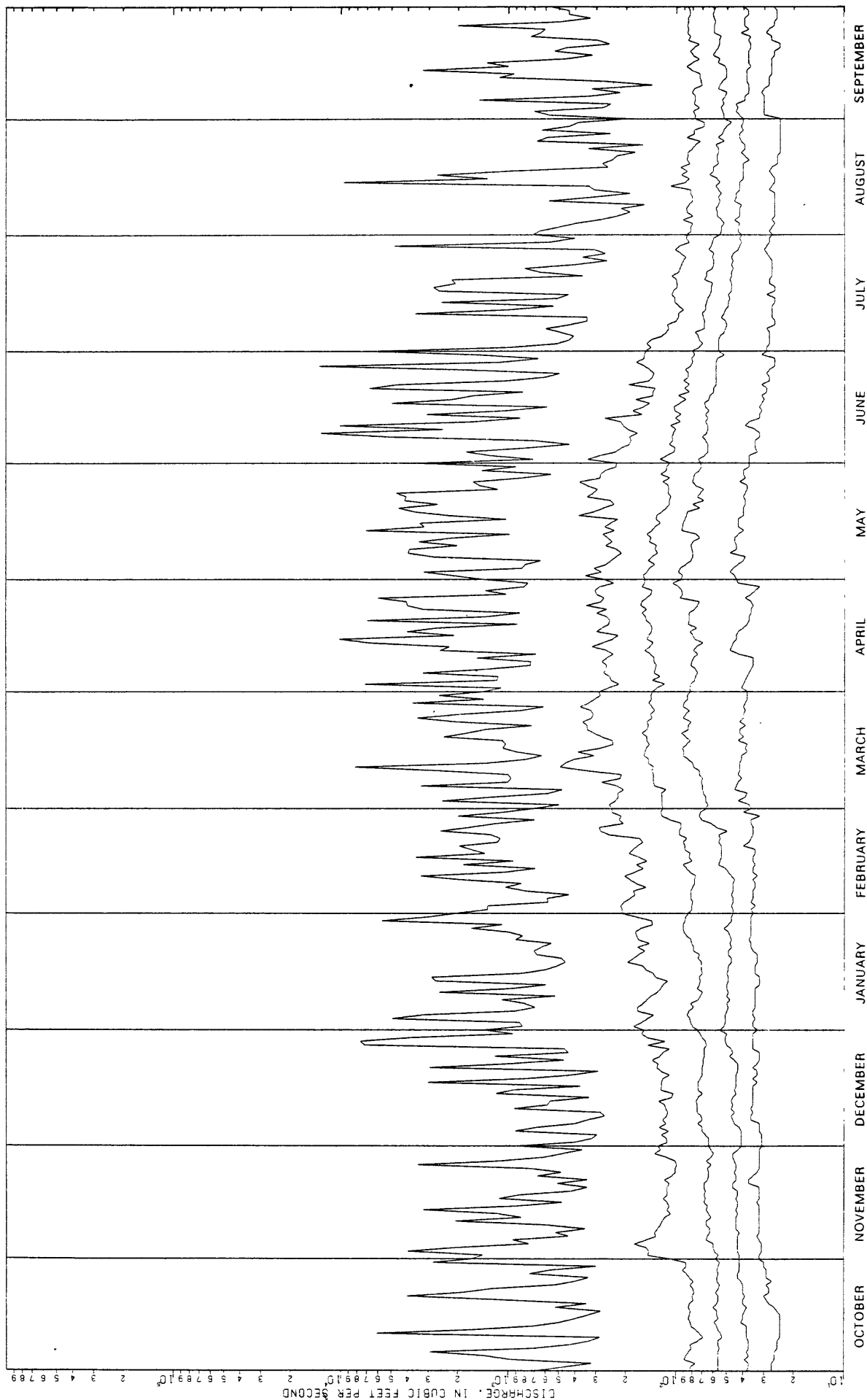


LITTLE PINEY CREEK AT NEWBURG, MO

06932000

1931

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

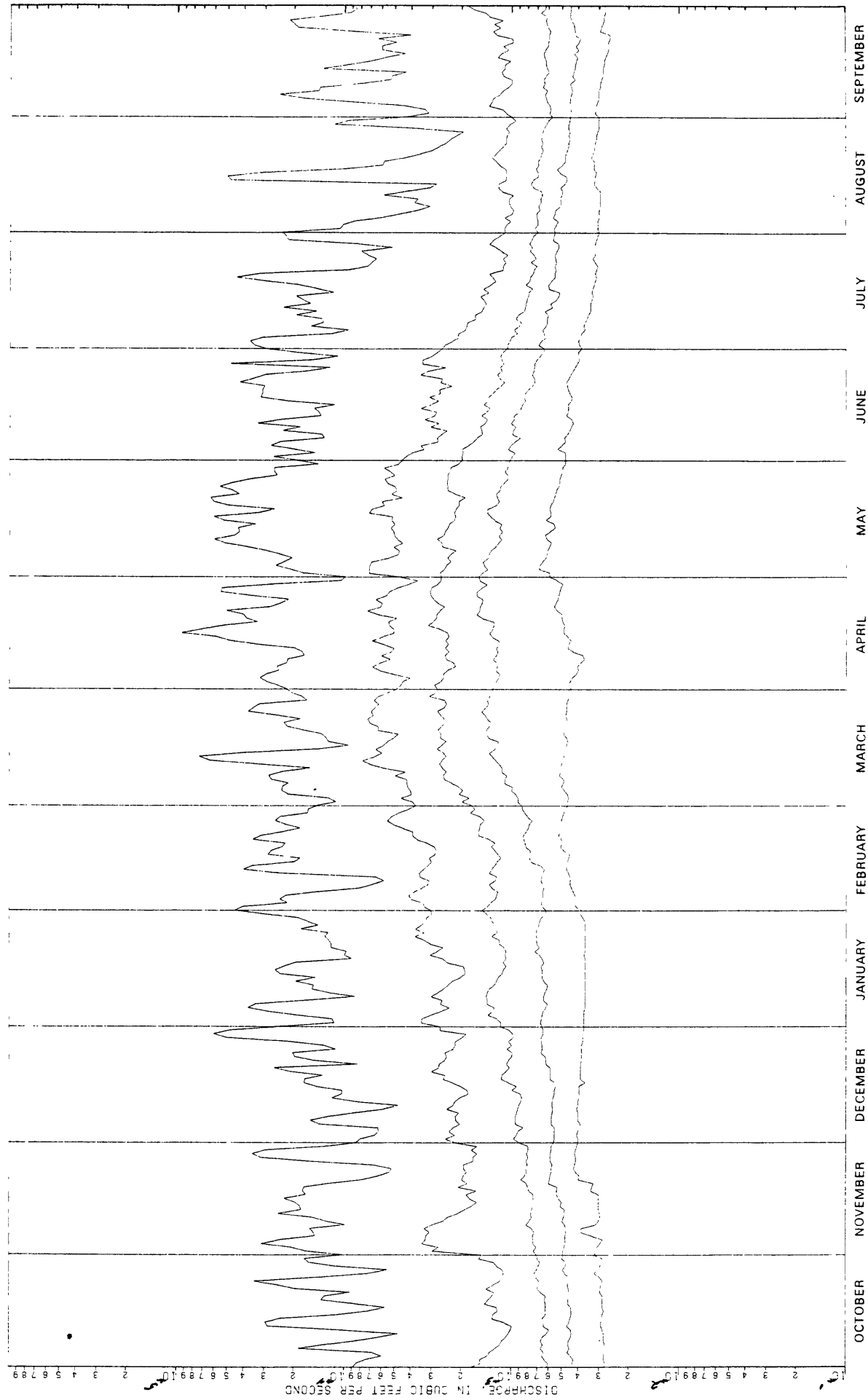


CHSCONROE RIVER AT JEROME MO

05933500

1931

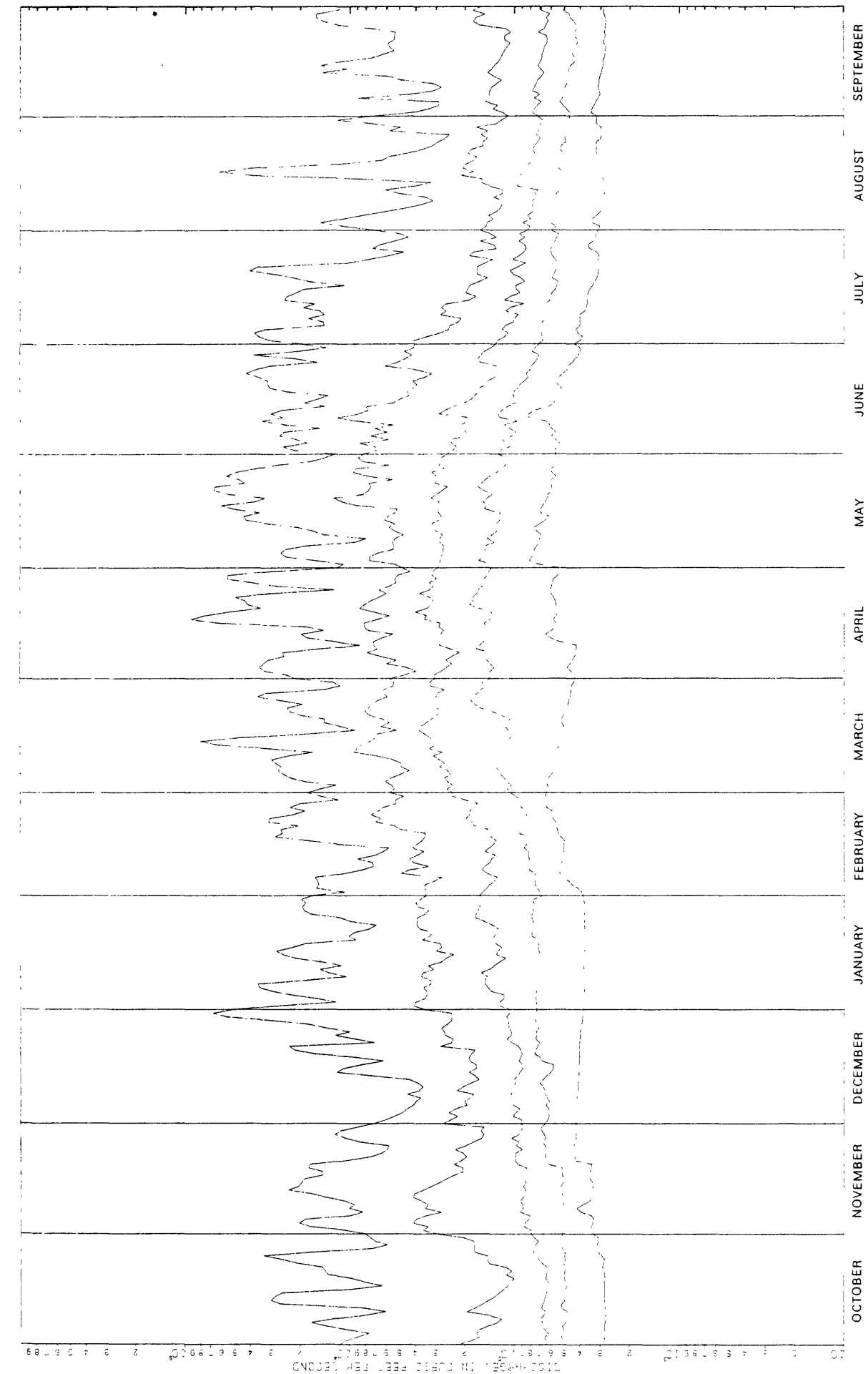
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931



GRANDDAM RIVER NEP PIC: FOUNTAIN. NO.

1931

1931



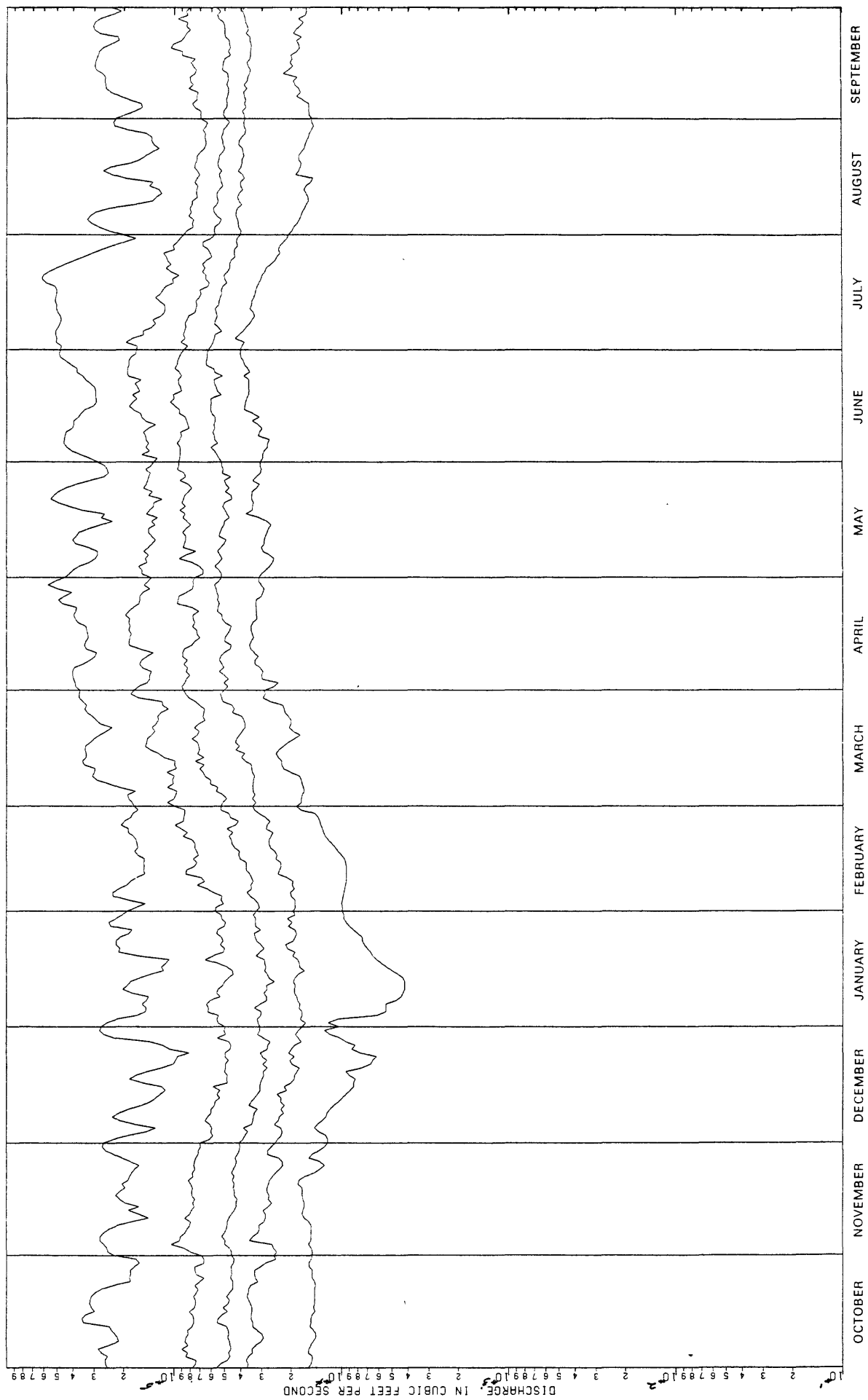
DURATION - HYDROGRAPH PLOT - 10.20.80.100 PERCENT EXCEEDANCE, 25% PERIOD BEGINS 10.10.100 AFTER YEAR 1931

MISSOURI RIVER AT HERMANN, MO

06934500

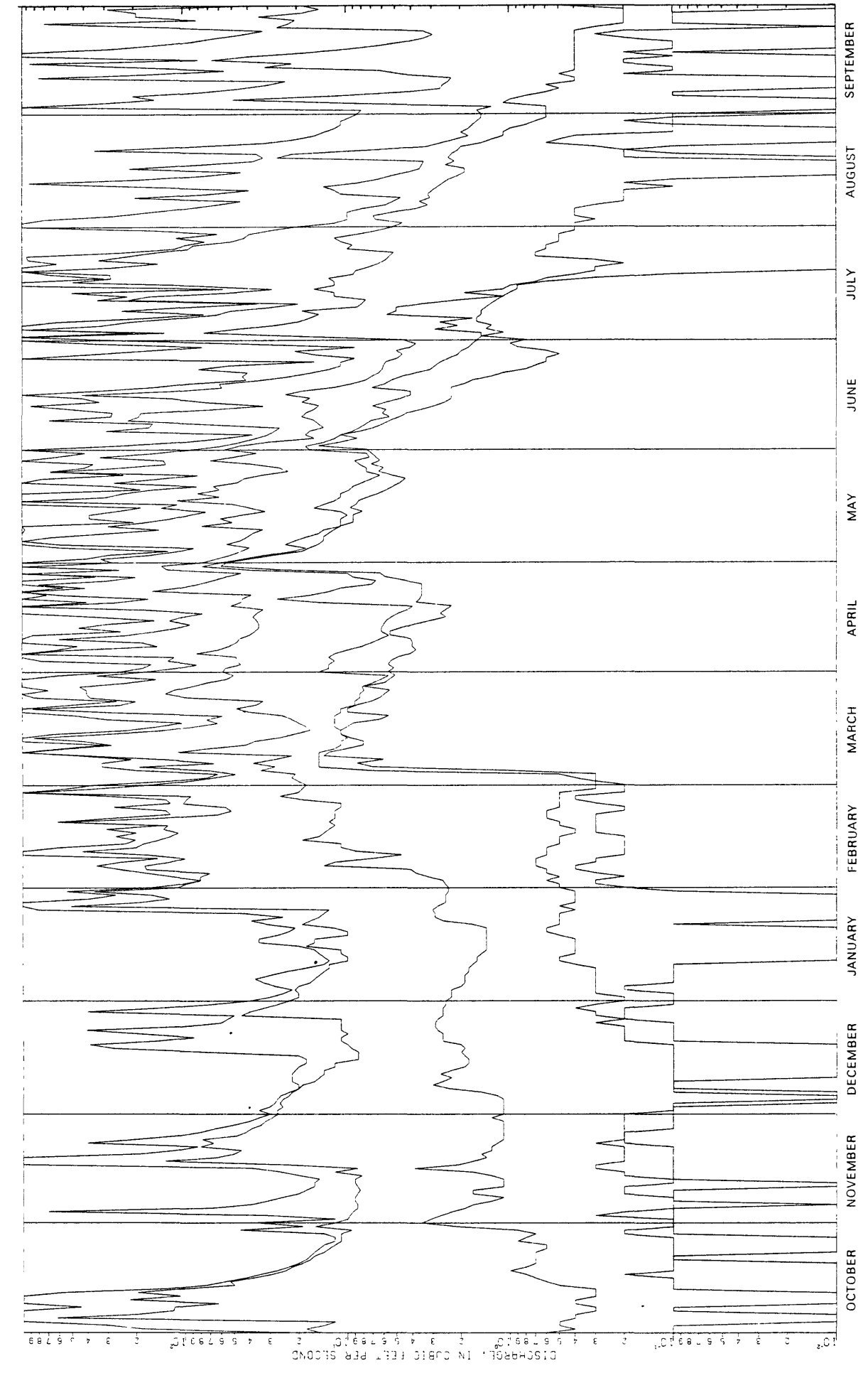
1931

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931



06935500 1956

LOUTRE RIVER AT MINNEOLA, MO.

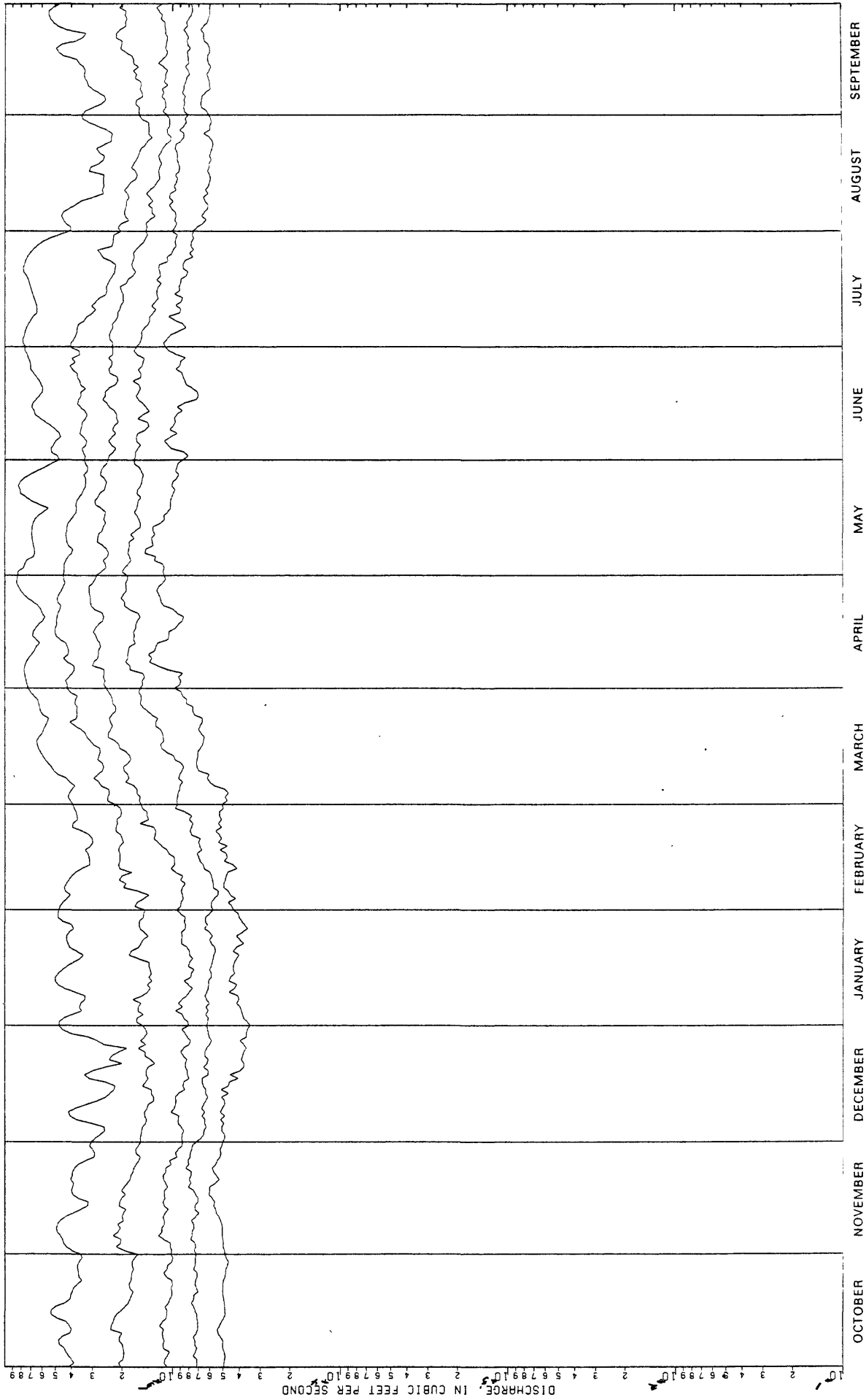


1941

07010000

MISSISSIPPI RIVER AT ST LOUIS MO

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941

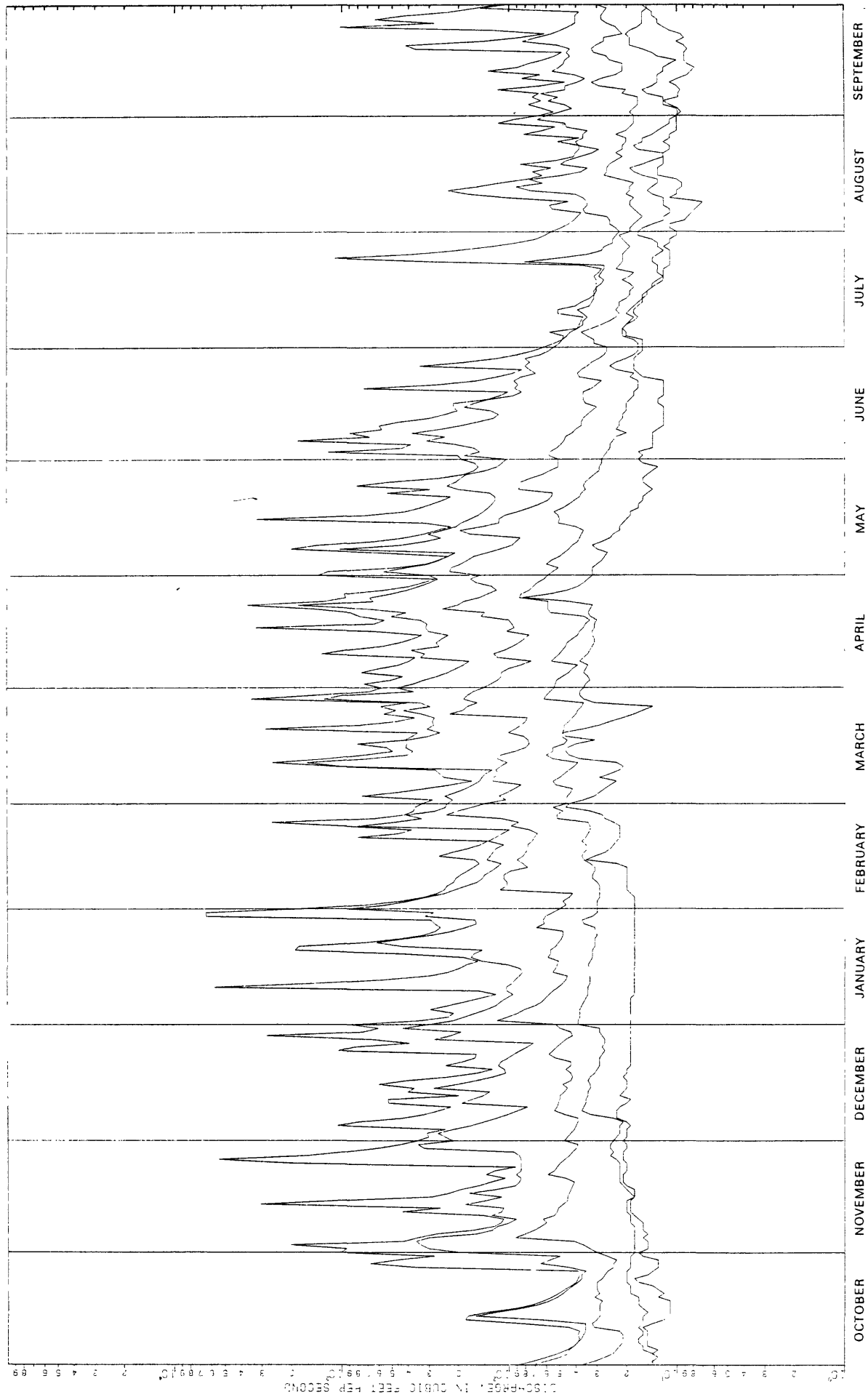


MEANEC RIVER AT CUCK STATION, NC

9/01030

1959

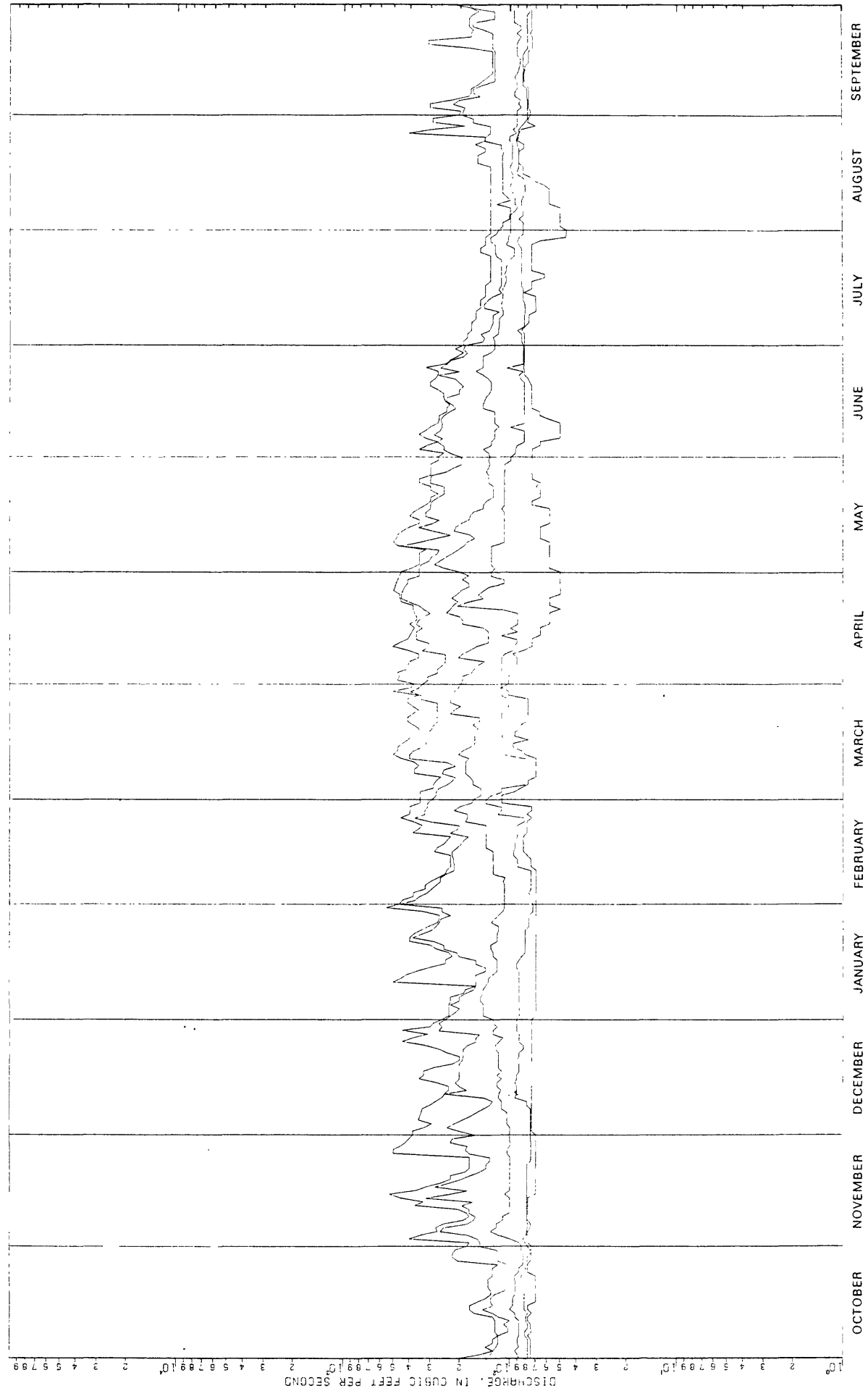
DURATION-HYDROGRAPH PLOT - 0.20, 0.50, 1.00 PERCENT EXCEEDANCE, 10-YR PERIOD BEGINNING WATER YEAR 1969



07010500 1969

MARAMEC SPRING NEAR ST. JAMES MO

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1969

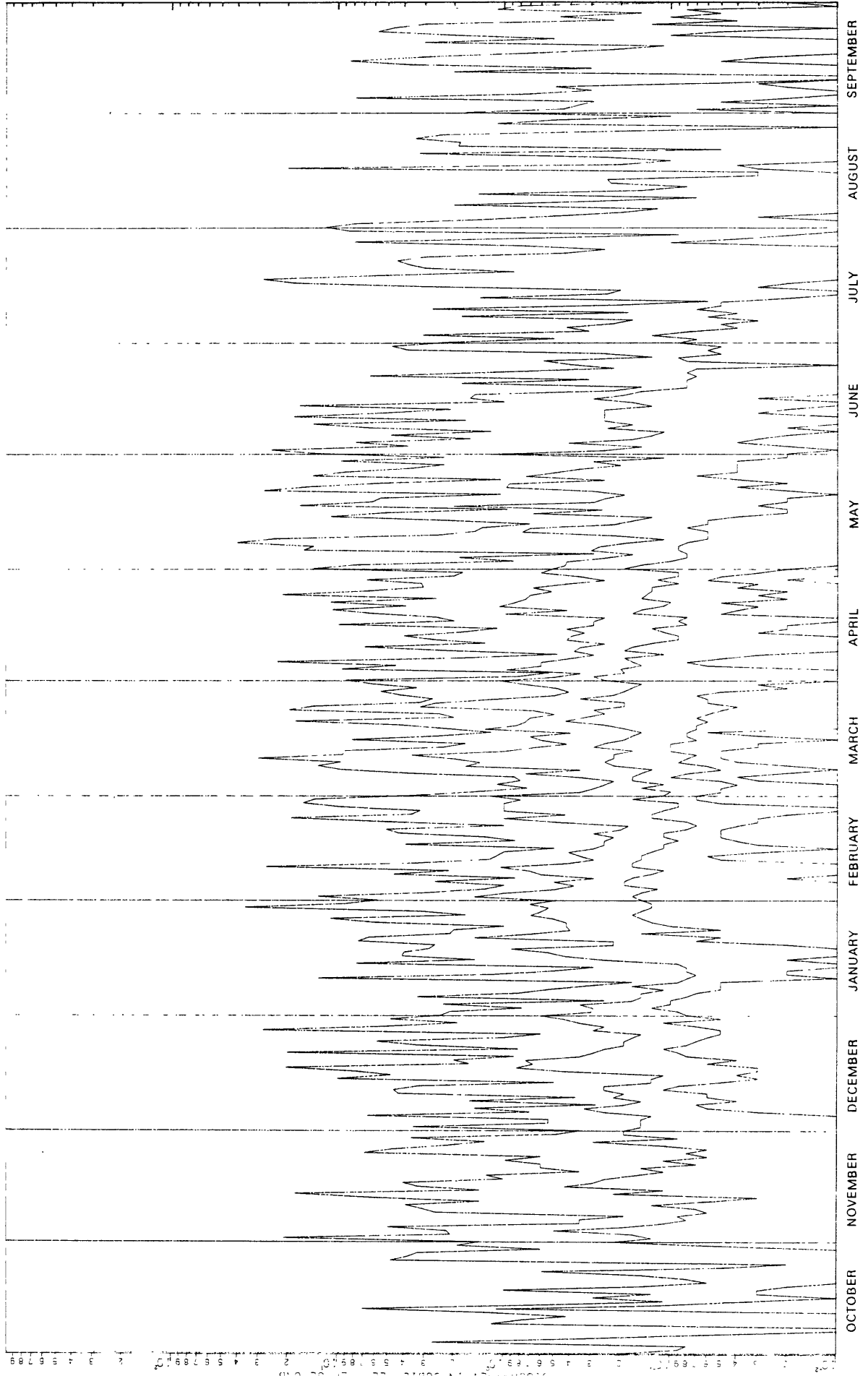


GREEN ACRE BRANCH NEAR ROLLA MO

07011500

1957

DURATION HYDROGRAPH PLT - (0.20,50,80,100 PERCENT EXCEEDANCE, 1947 PERIOD BEGINNING WATER YEAR 1957

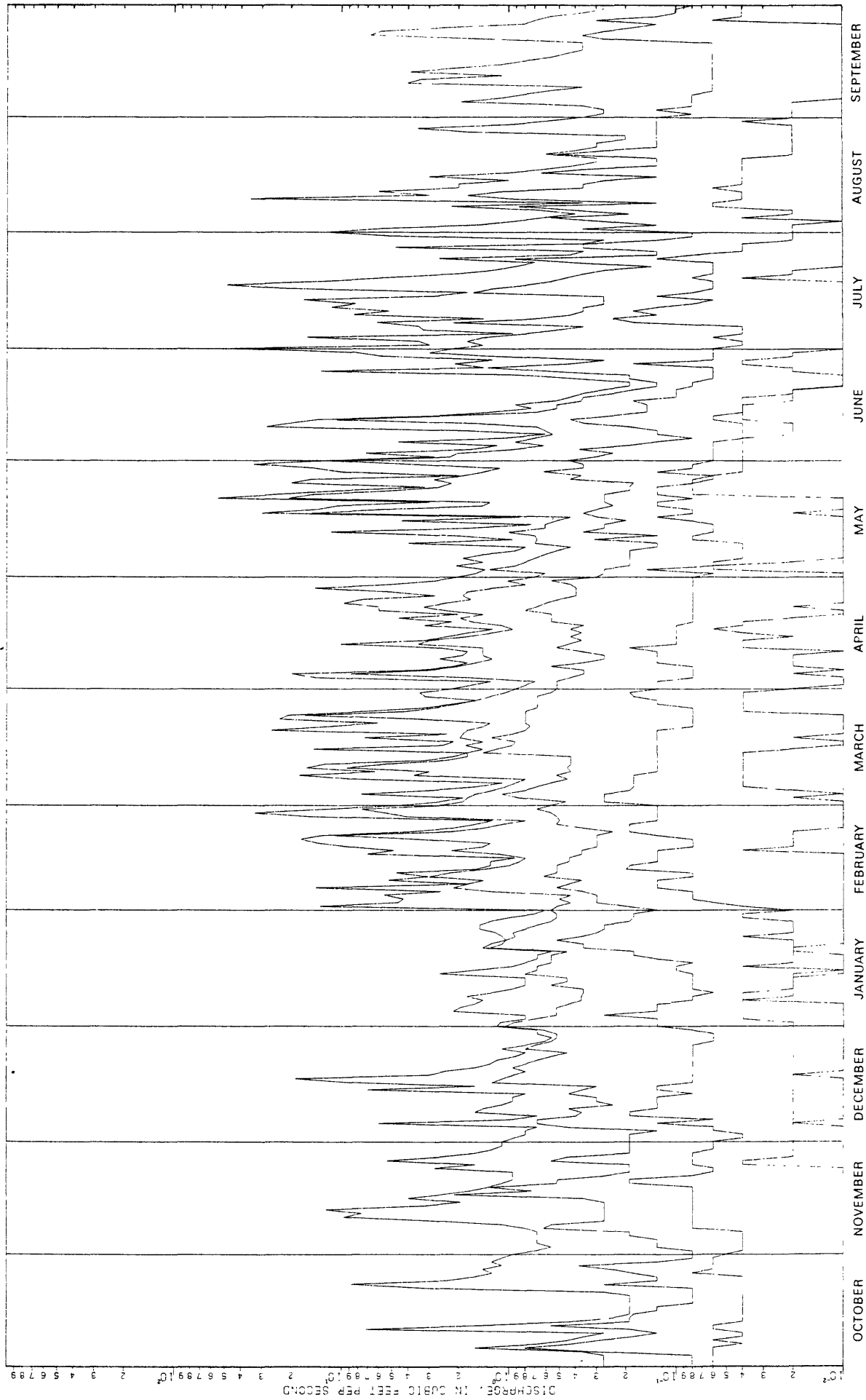


BEHNKE BRANCH NEAR FOLLA MO

07012000

1951

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 0945 PERIOD BEGINNING WATER YEAR 1951



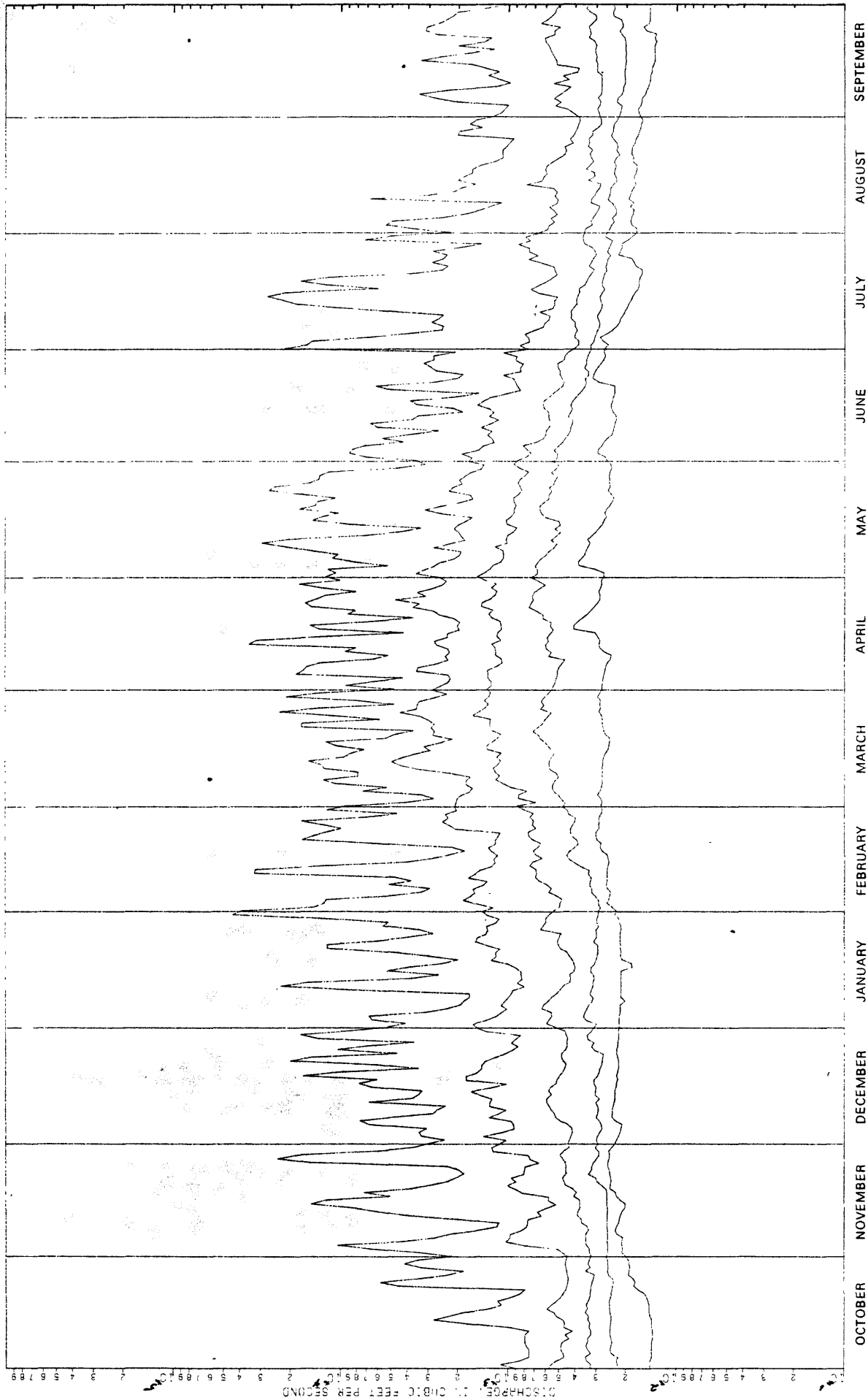
1931

MERRIMAC RIVER NEAR SULLIVAN, MO.

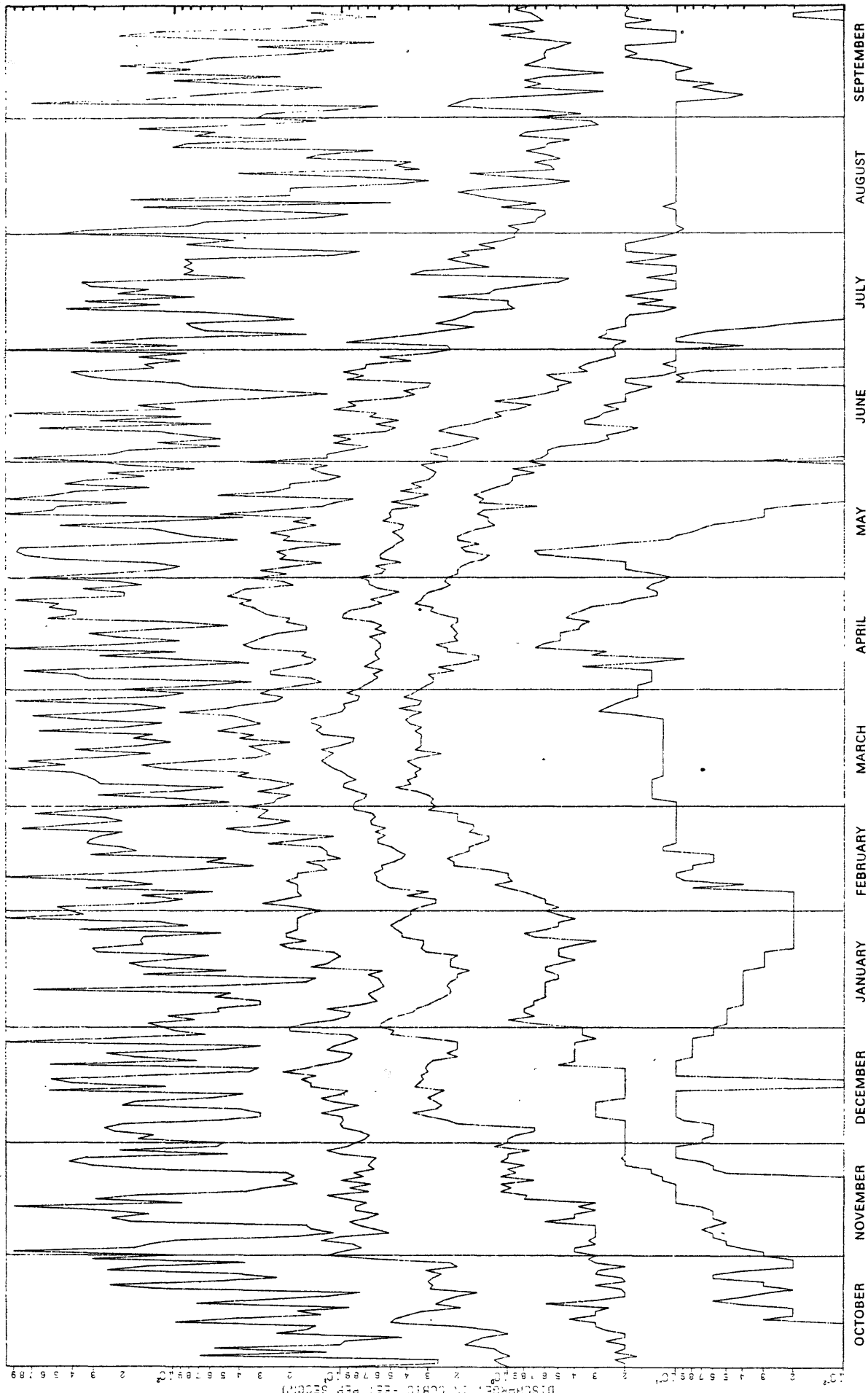
07014500

1951

DURATION HYDROGRAPH FLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 29 YR PERIOD BEGINNING WATER YEAR 1961



DURATION: HYDROGRAPH PLOT - (0.20,50.00,100 PERCENT EXCEEDANCE) 29-YR PERIOD BEGINNING WATER YEAR 1951

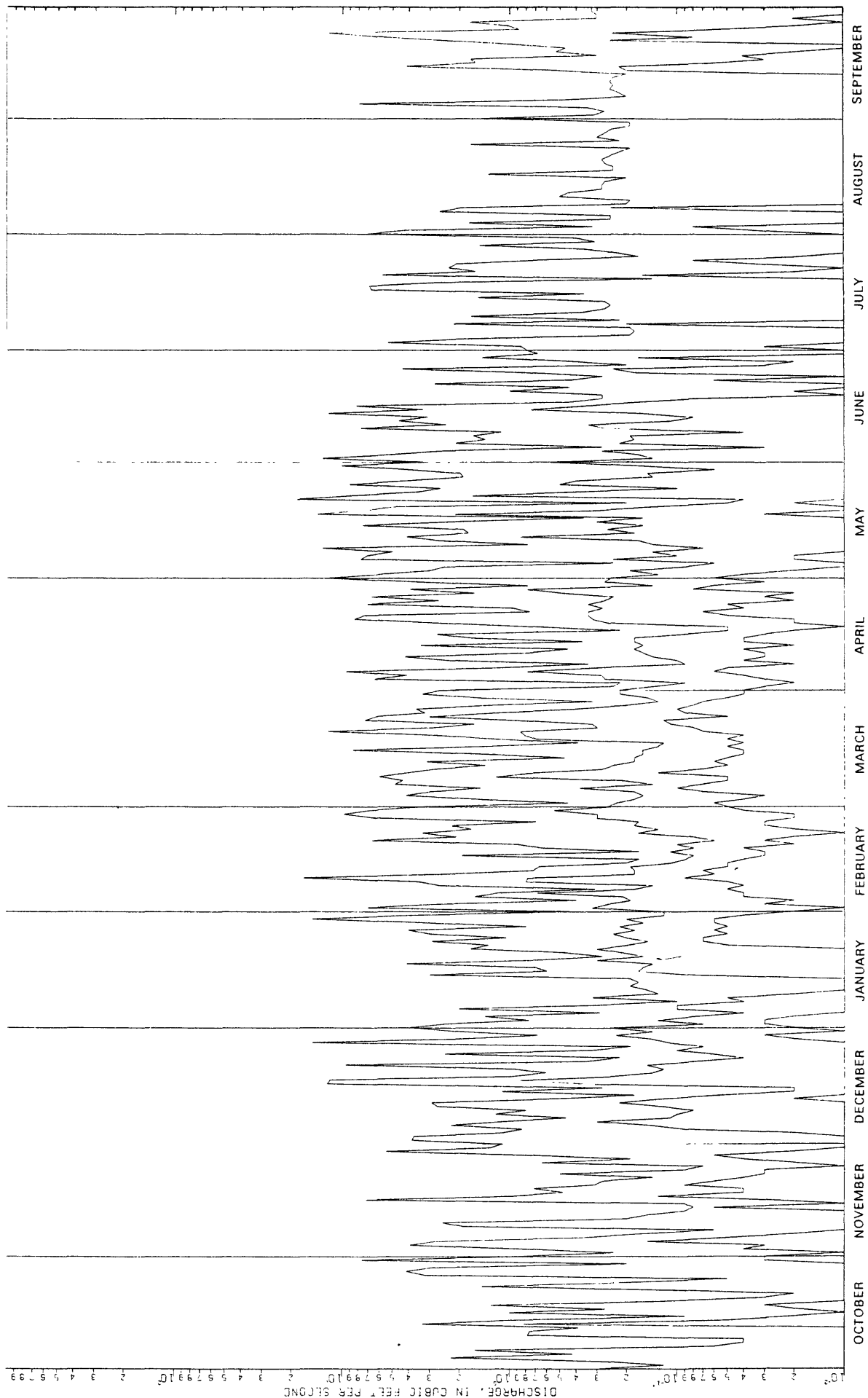


LAKE'S F.K. NR. FOULA MO

070:5500

1963

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1953

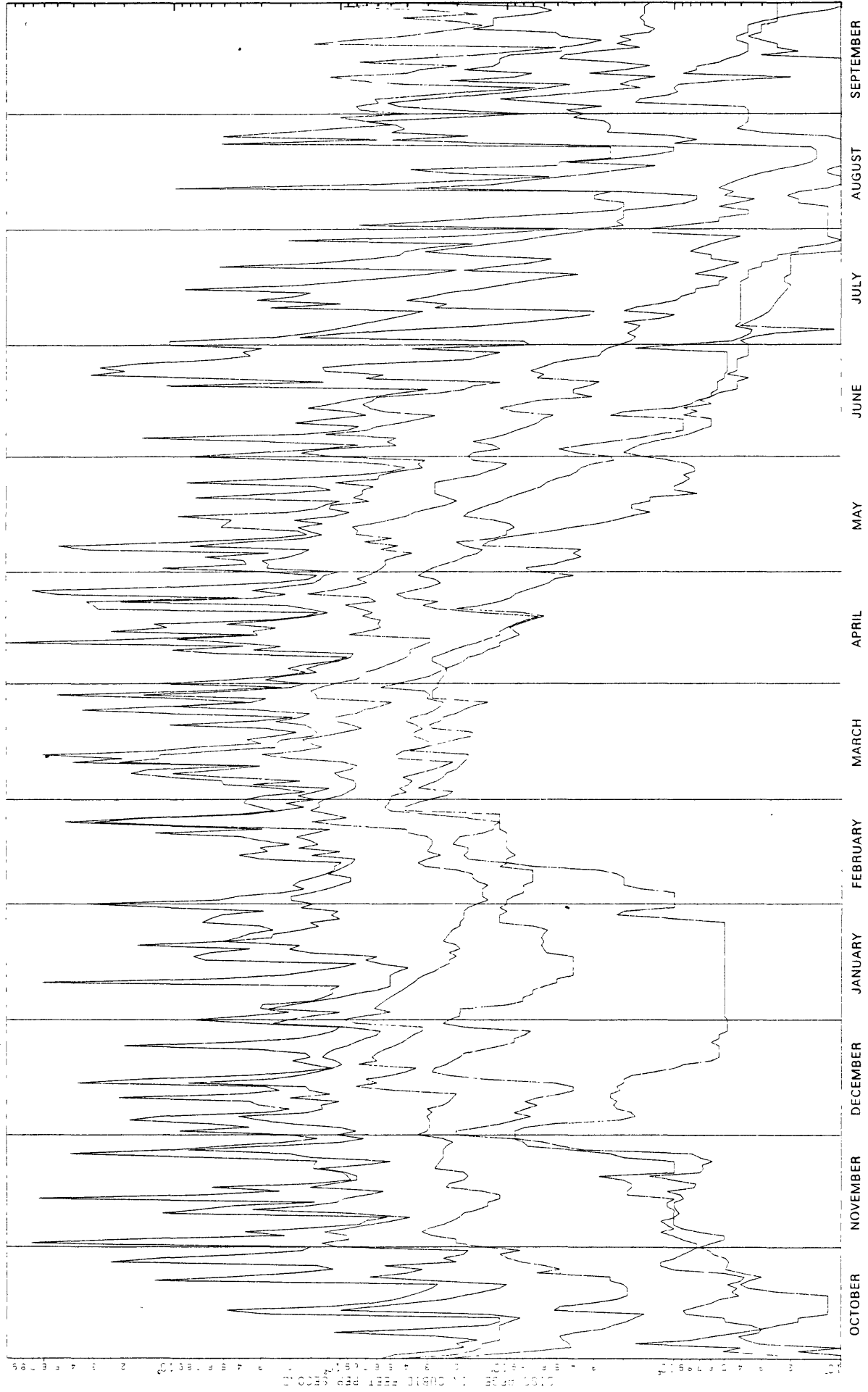


141

BOUREUSE RIVER NR HIGH GATE MO

07/15/20

1971



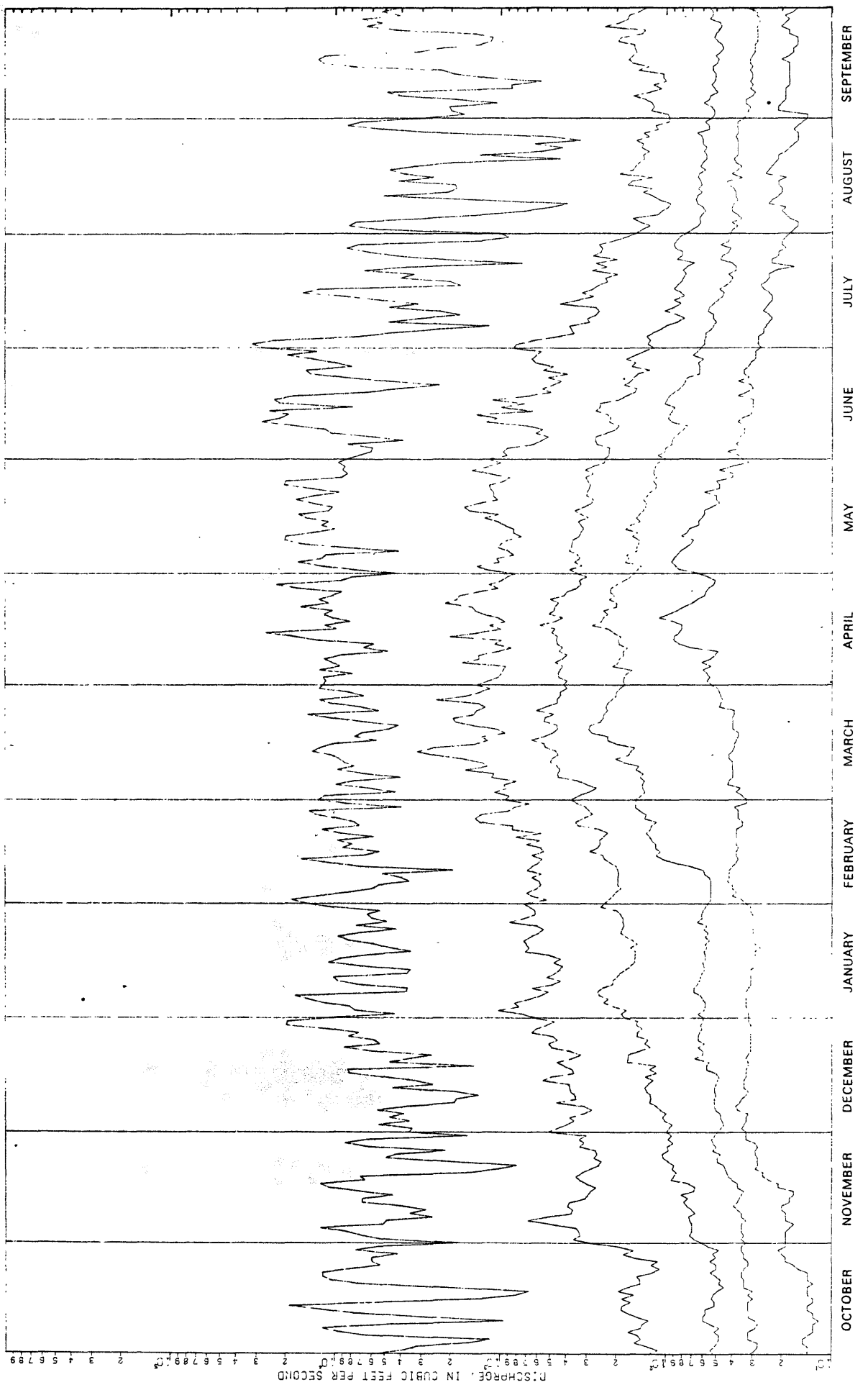
145

1931

BOURBEUSE RIVER AT UNION, MO

07016500

DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE - 49 YR PERIOD BEGINNING WATER YEAR 1931

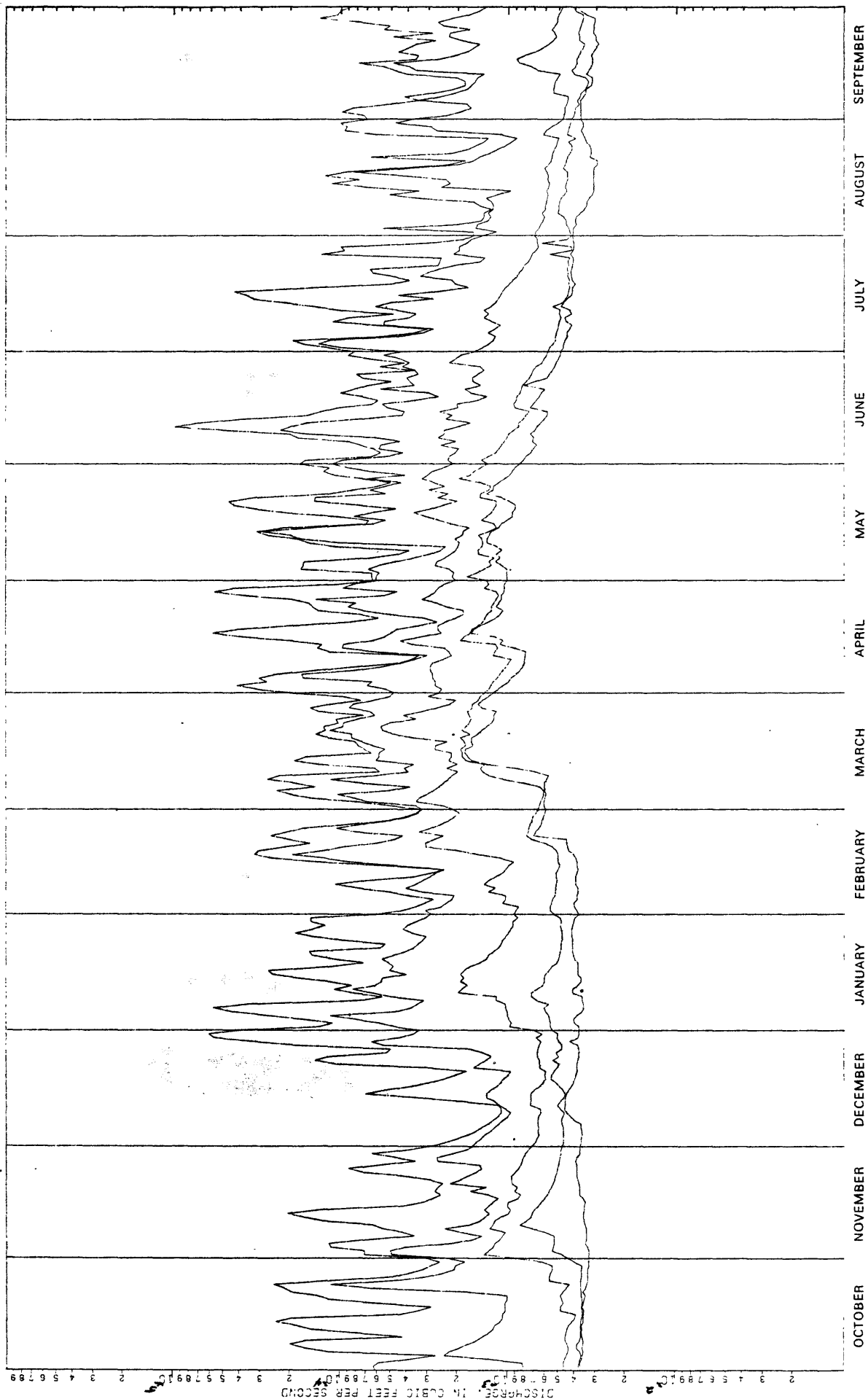


HERANEK RIVER AT ROBERTSVILLE, MO.

07017000

1943

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1943

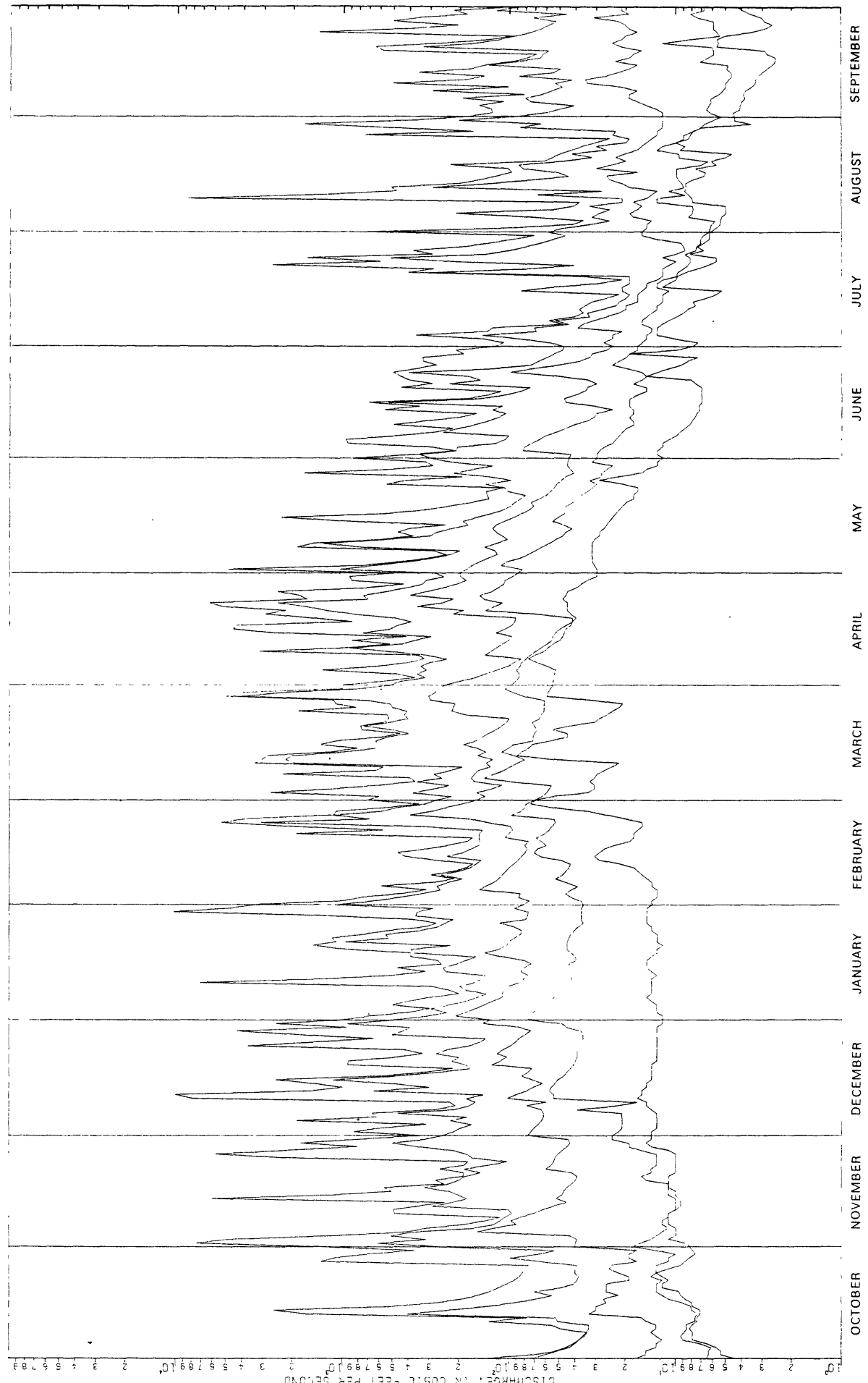


BIG RIVER AT IRONDALE, MO

07017200

1969

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 09/18 PERIOD BEGINNING WATER YEAR 1969

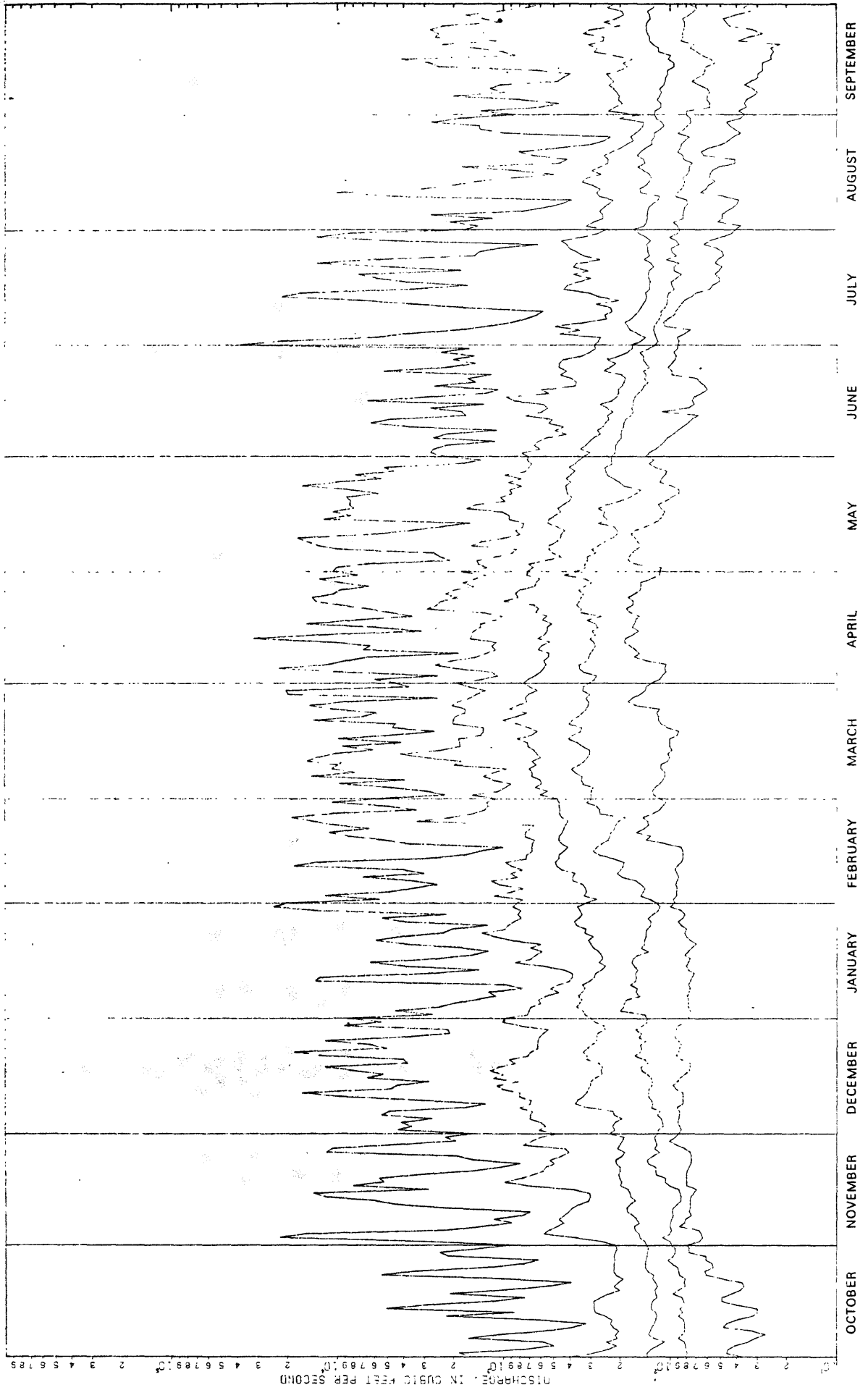


149

BIG RIVER NEAR DESOTO, MISSOURI

070181000 1951

DURATION HYDROGRAPH PLOT - 10,20,50,80,100 PERCENT EXCEEDANCE: 29 YR PERIOD BEGINNING WATER YEAR 1951

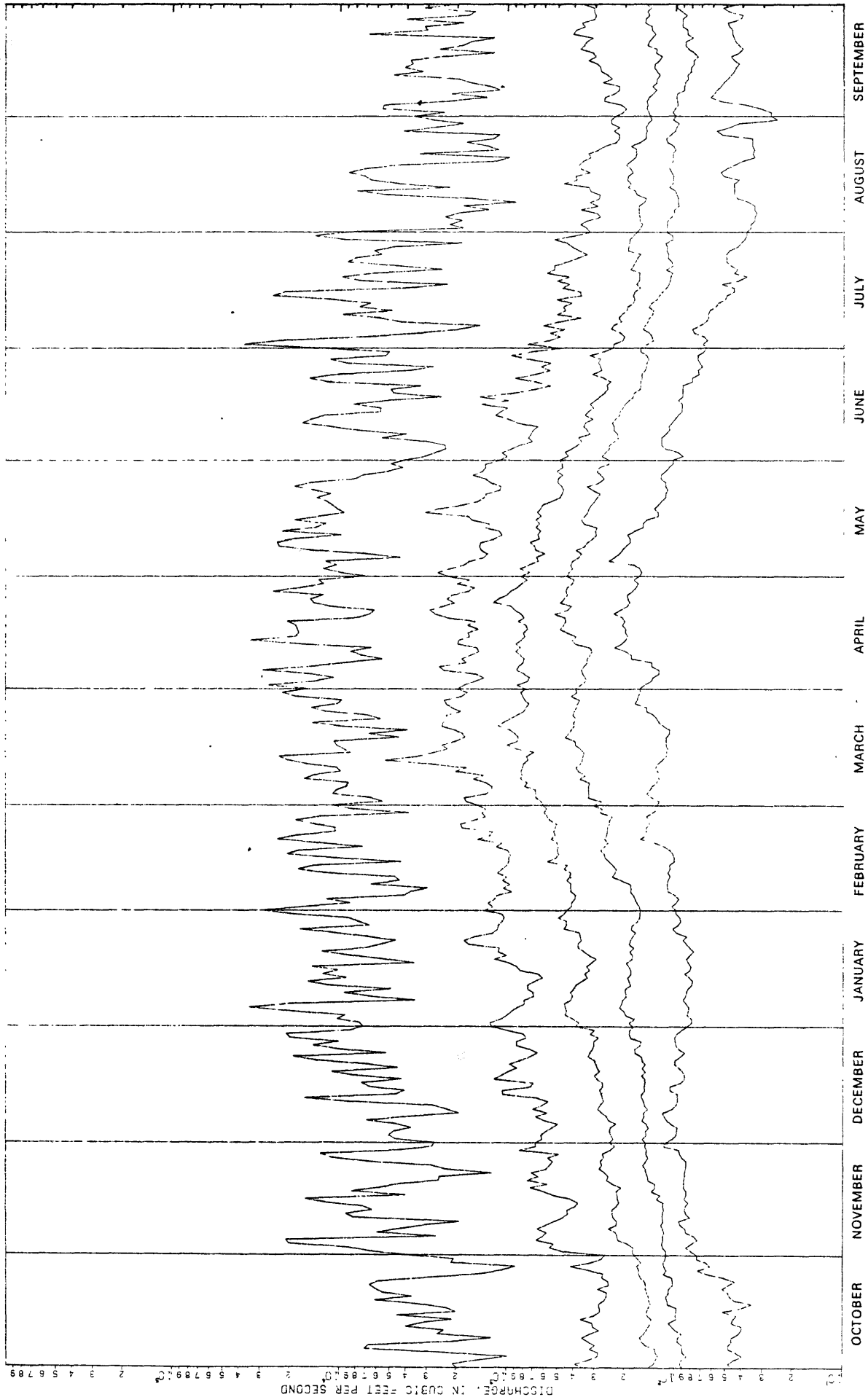


BIO RIVER AT BYRNESVILLE

07C18500

1931

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCES) 49YR PERIOD BEGINNING WATER YEAR 1931



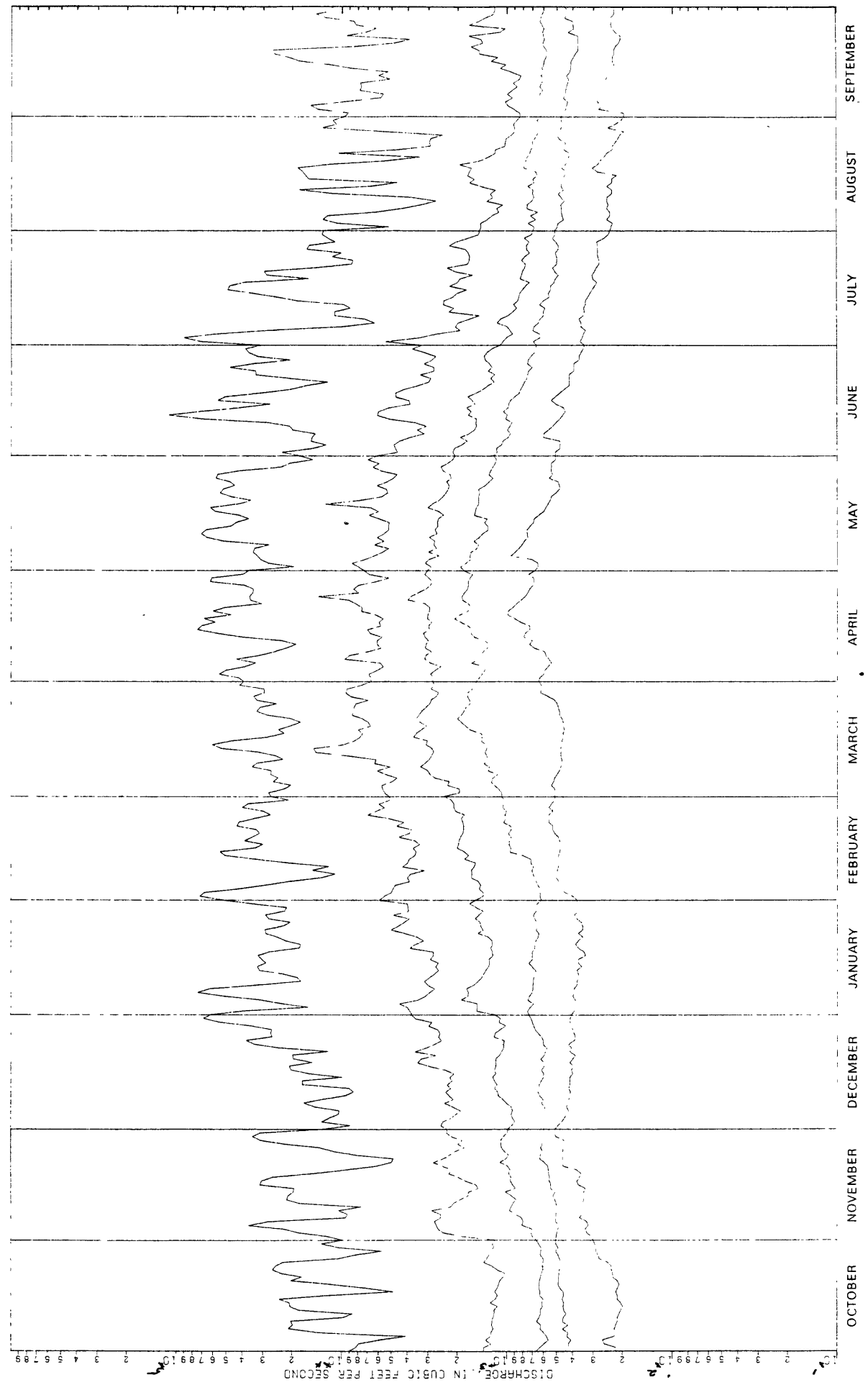
151

HERNANDEZ RIVER NEAR EUREKA, MO

07019000

1931

DURATION HYDROGRAPH PLOT - (10,20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

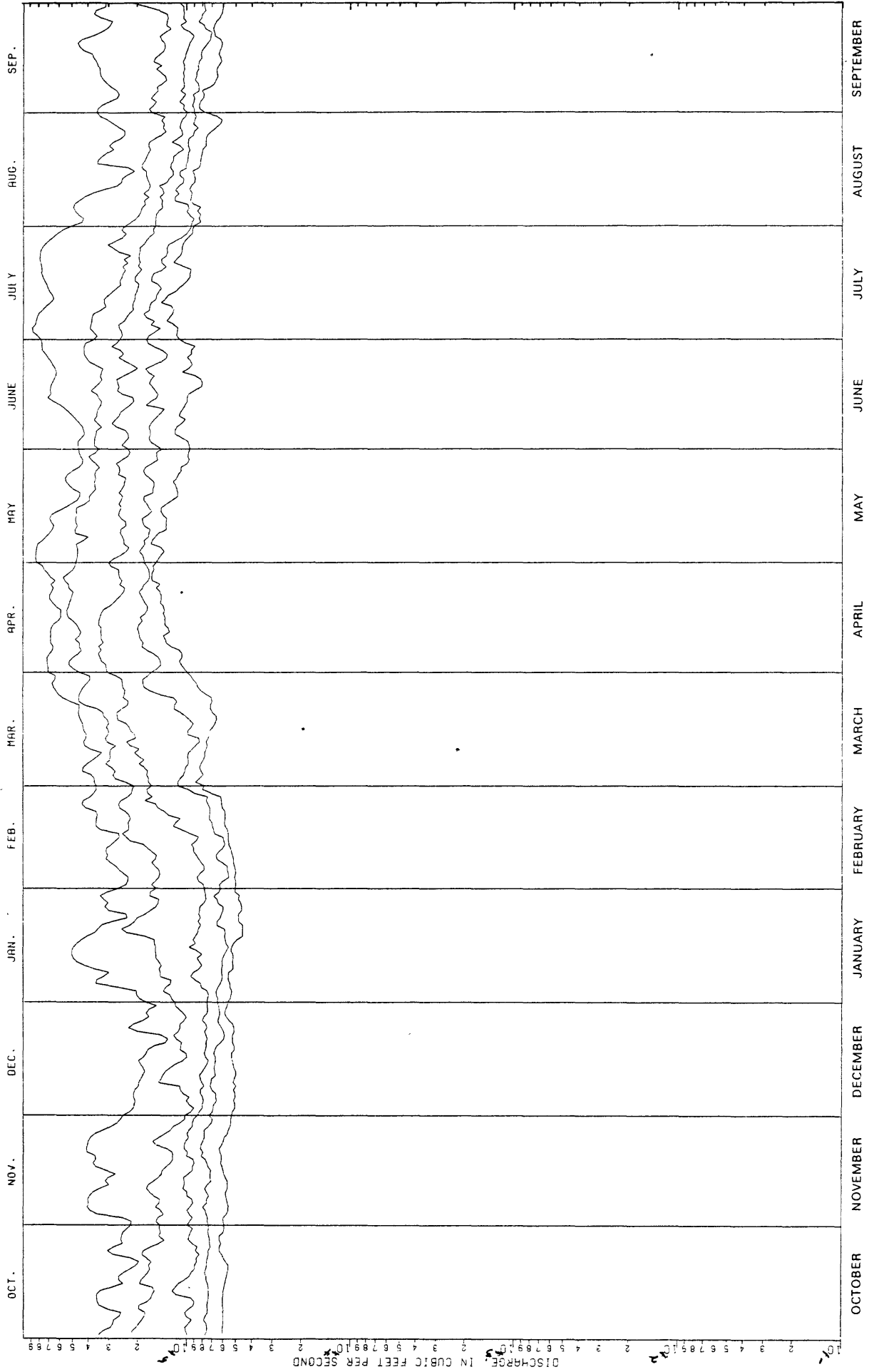


MISSISSIPPI RIVER AT CHESTER ILLINOIS

07020500

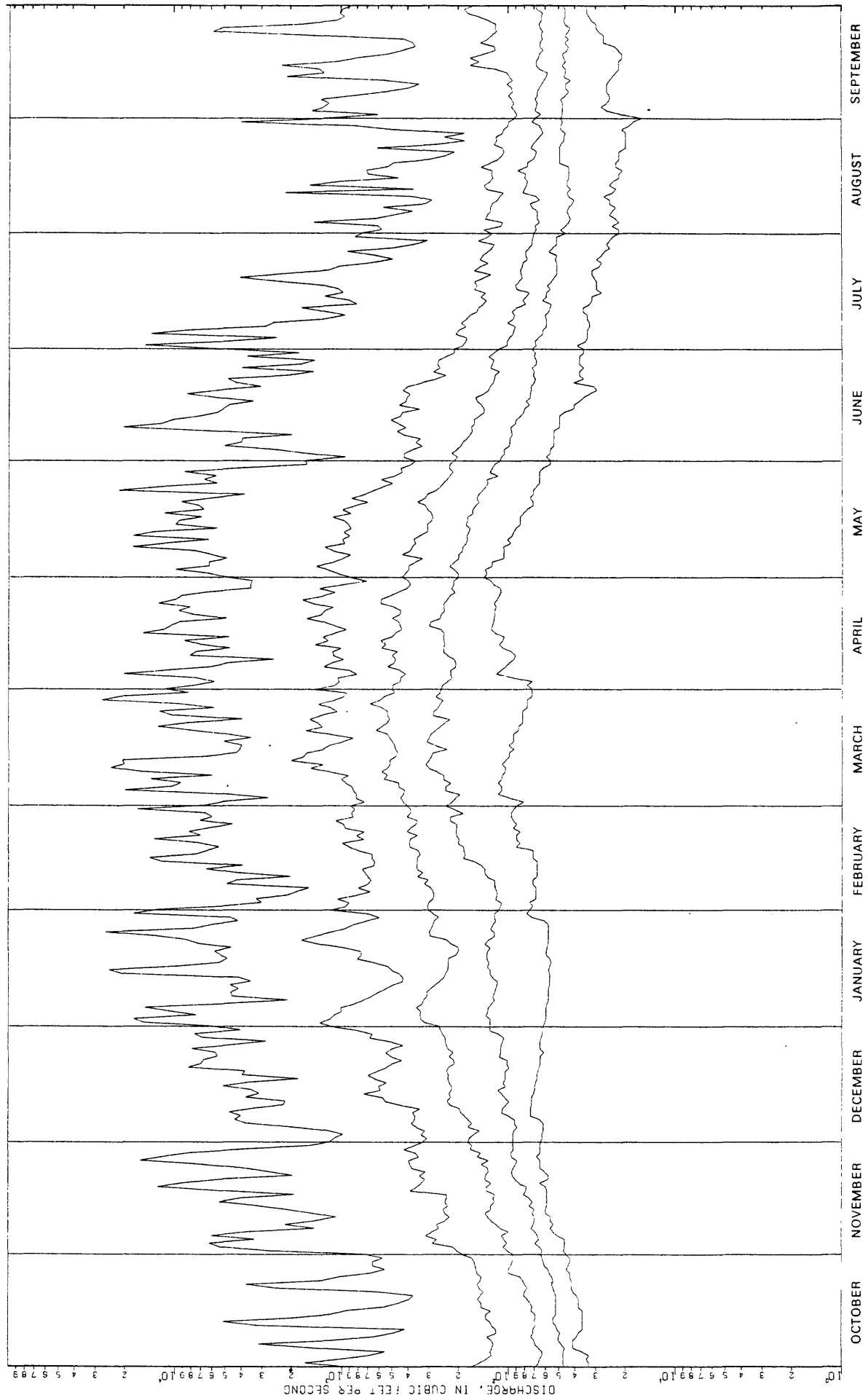
1943

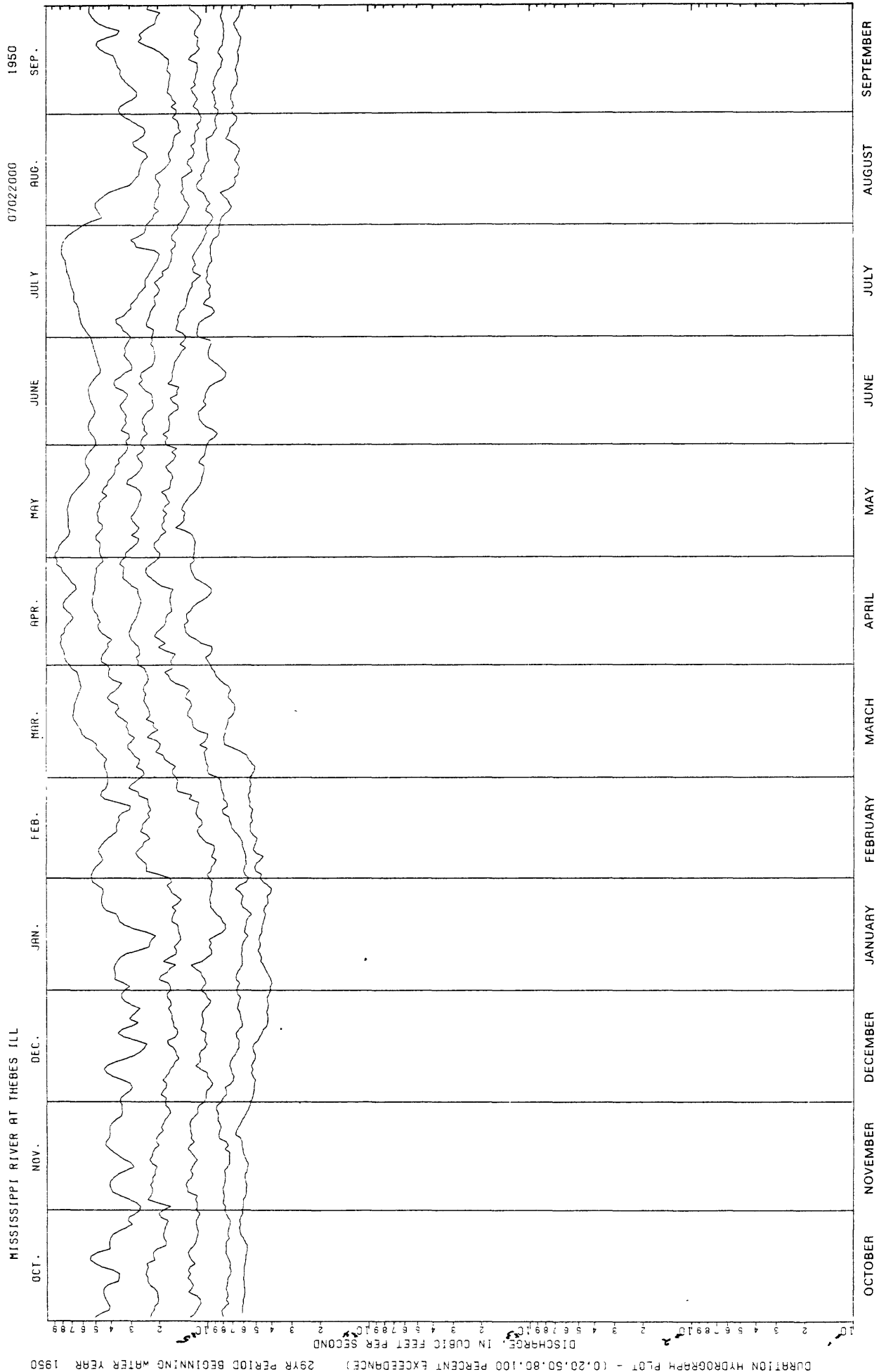
DURATION HYDROGRAPH PLOT - (0.2C, 5C, 80, 10C PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1943



CASIOR RIVER AT ZALMA, MO.

07021000 1931



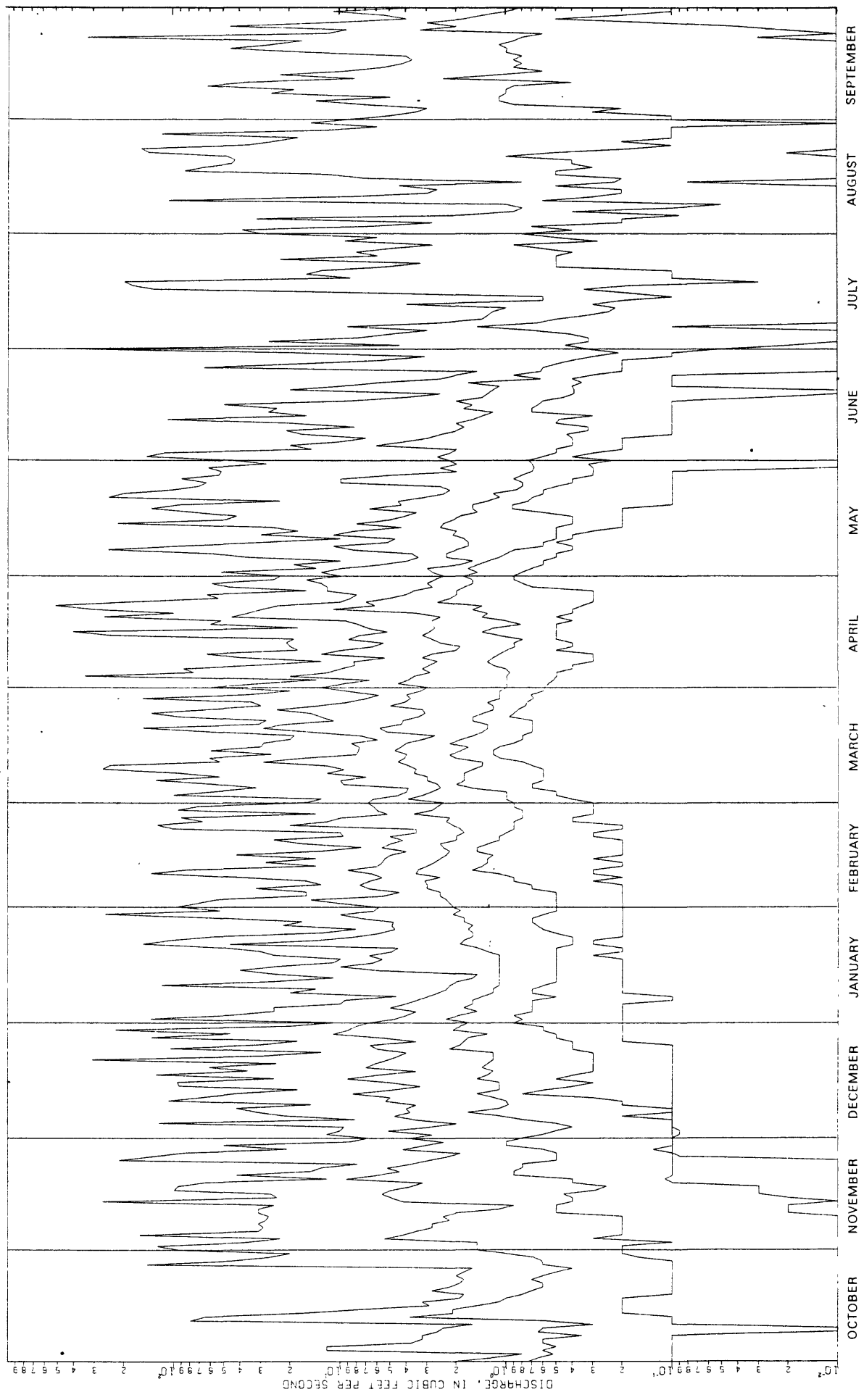


BARNES CREEK NEAR FREDERICKTOWN, MISSOURI

07035500

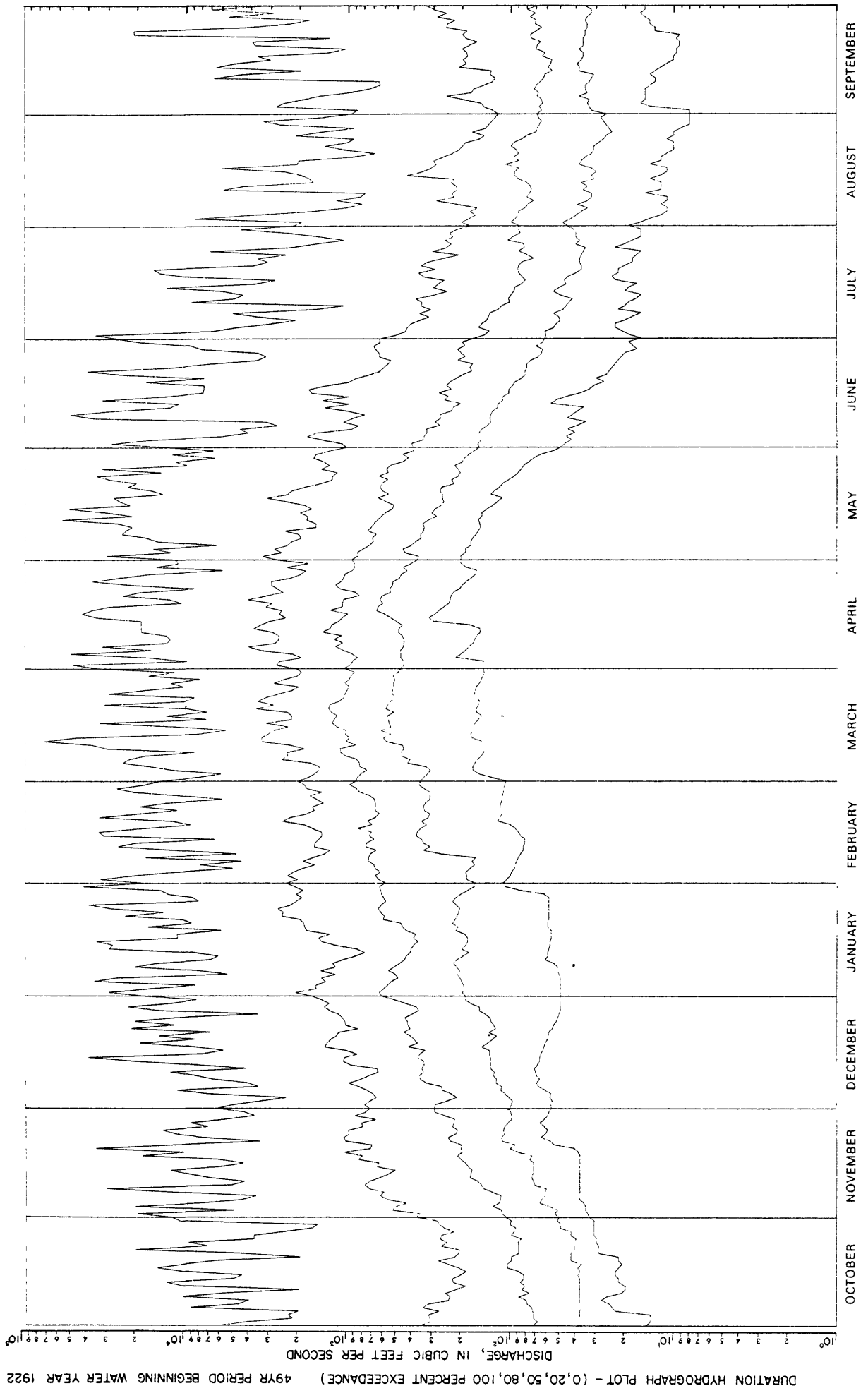
1957

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1957



151

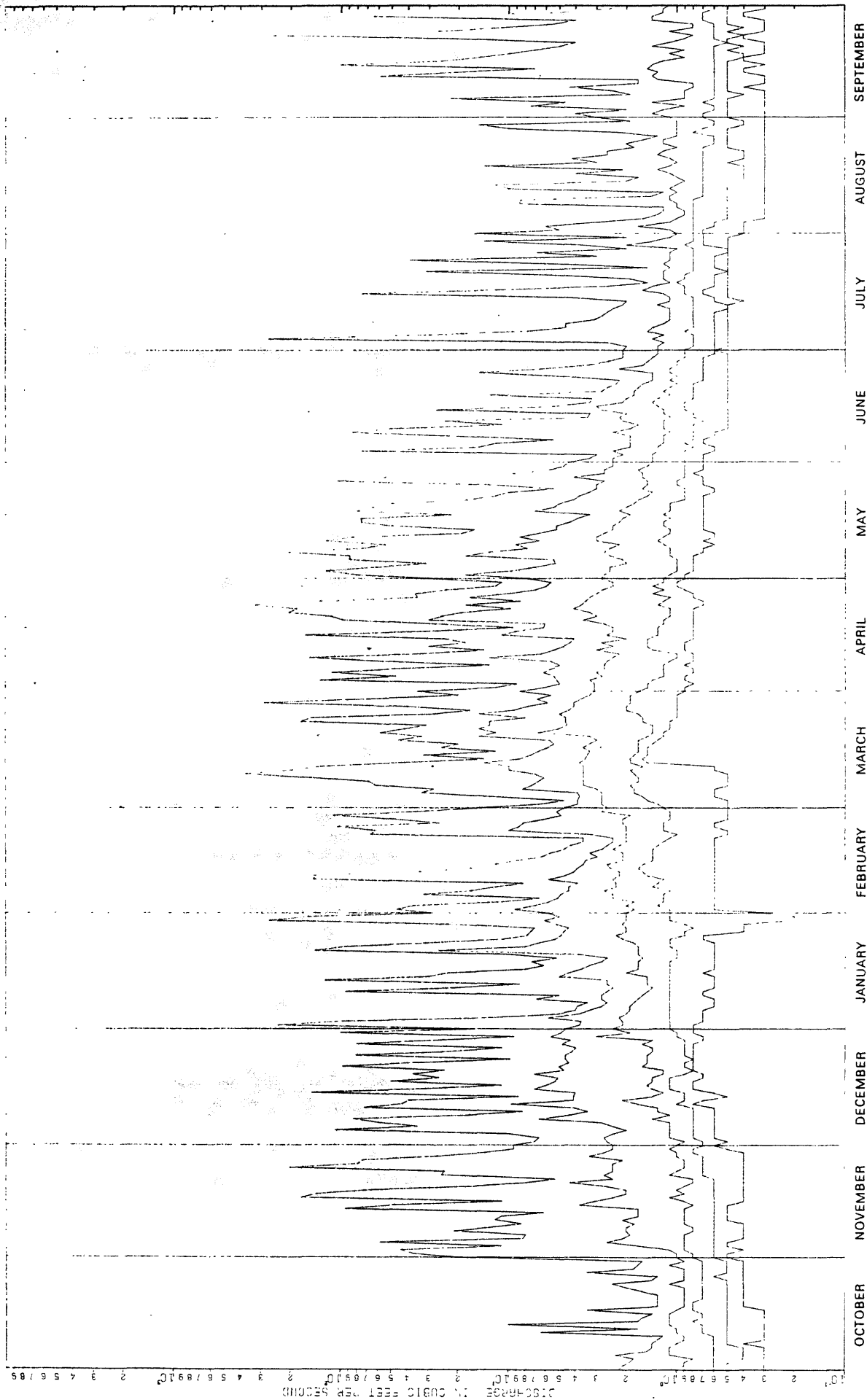
ST. FRANCIS RIVER NEAR PATTERSON, NO 07037500 1922



151
188

07037100 • 1958

CLARK CREEK NEAR PLEUMONT MO



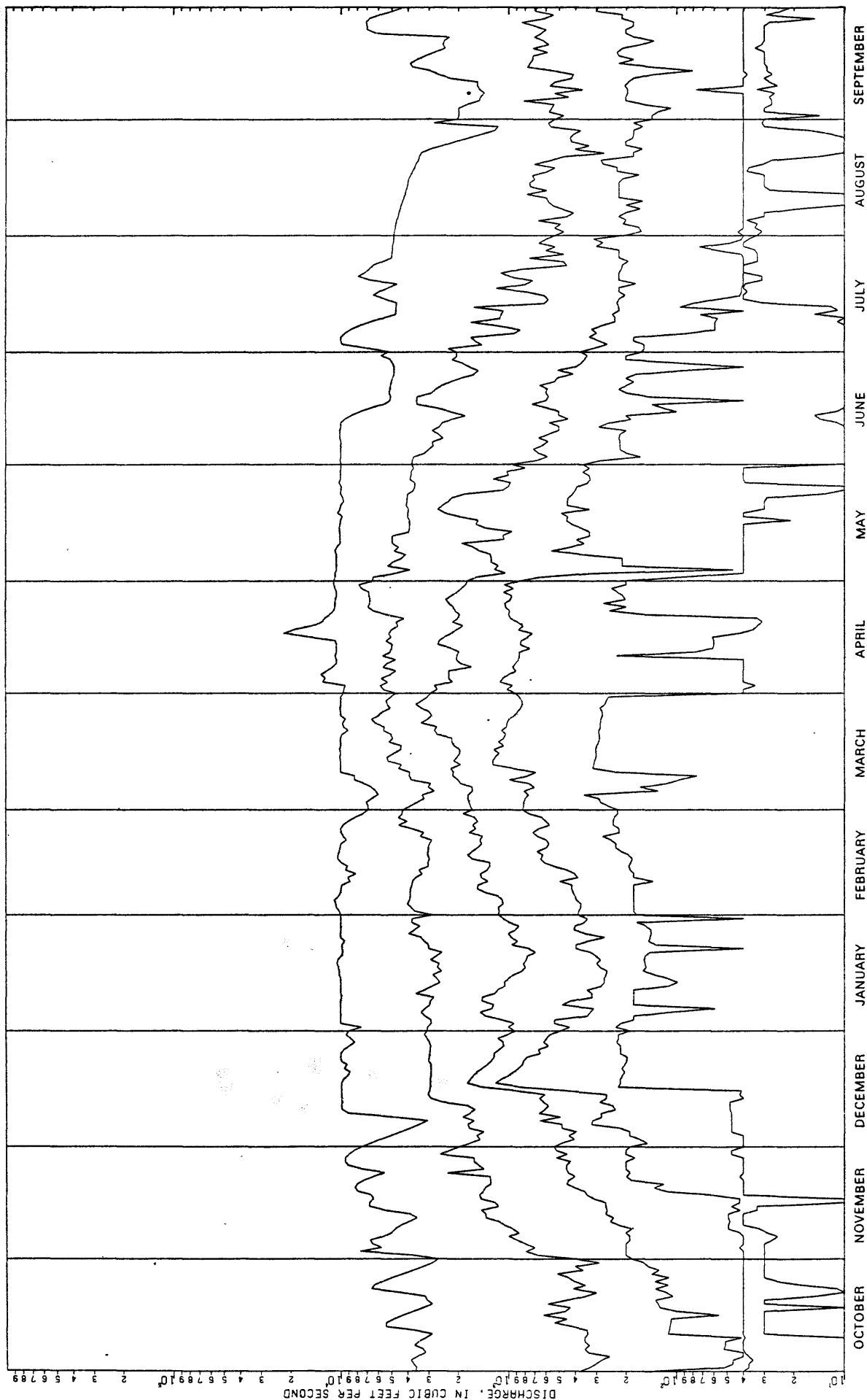
DURATION HYDROGRAPH PLOT - (10 TO 20.50 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1958

ST. FRANCIS RIVER AT HAPPAPELLO, MO.

07039500

1941

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941

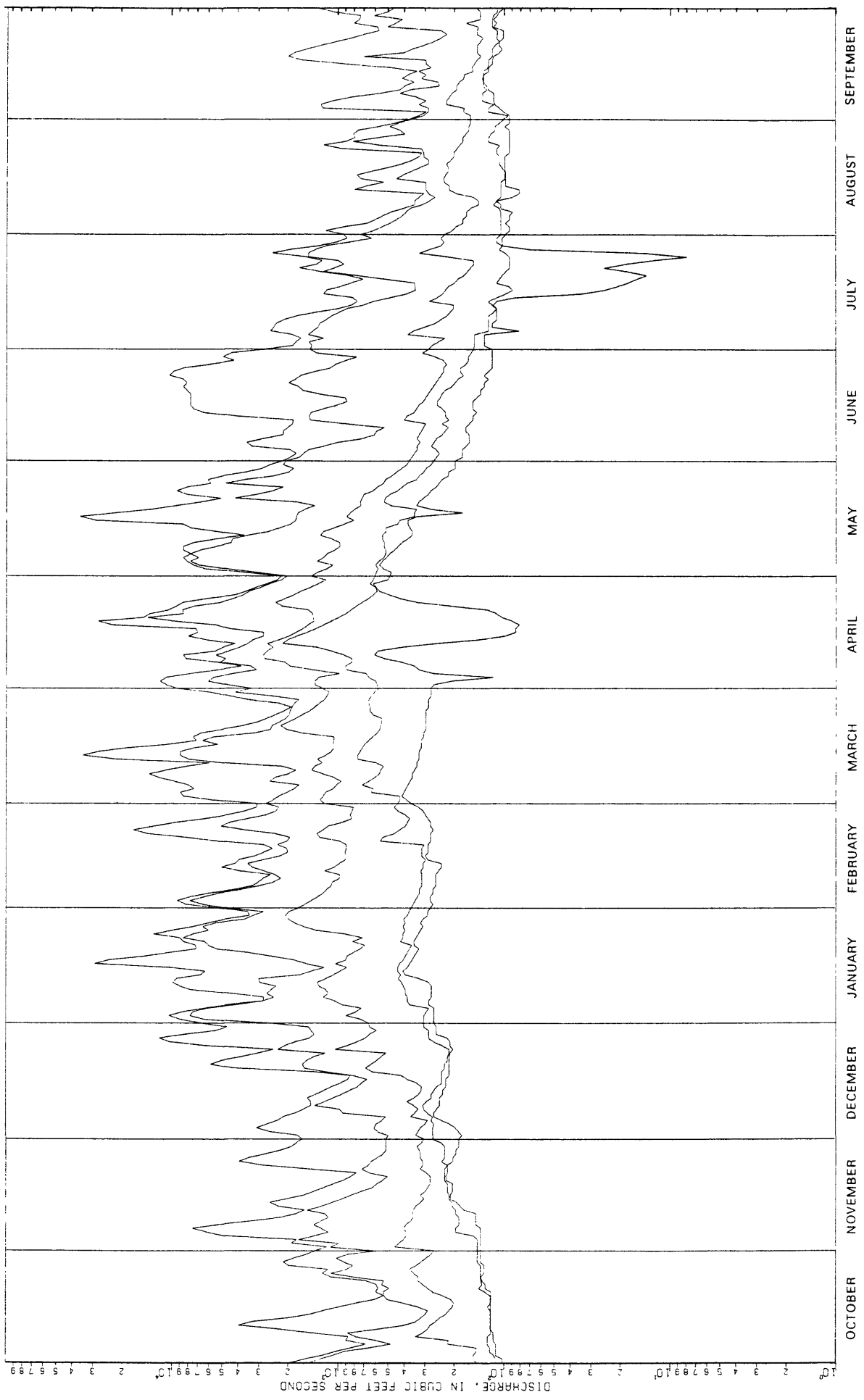


ST FRANCIS R AT FISK MO

07040000

1933

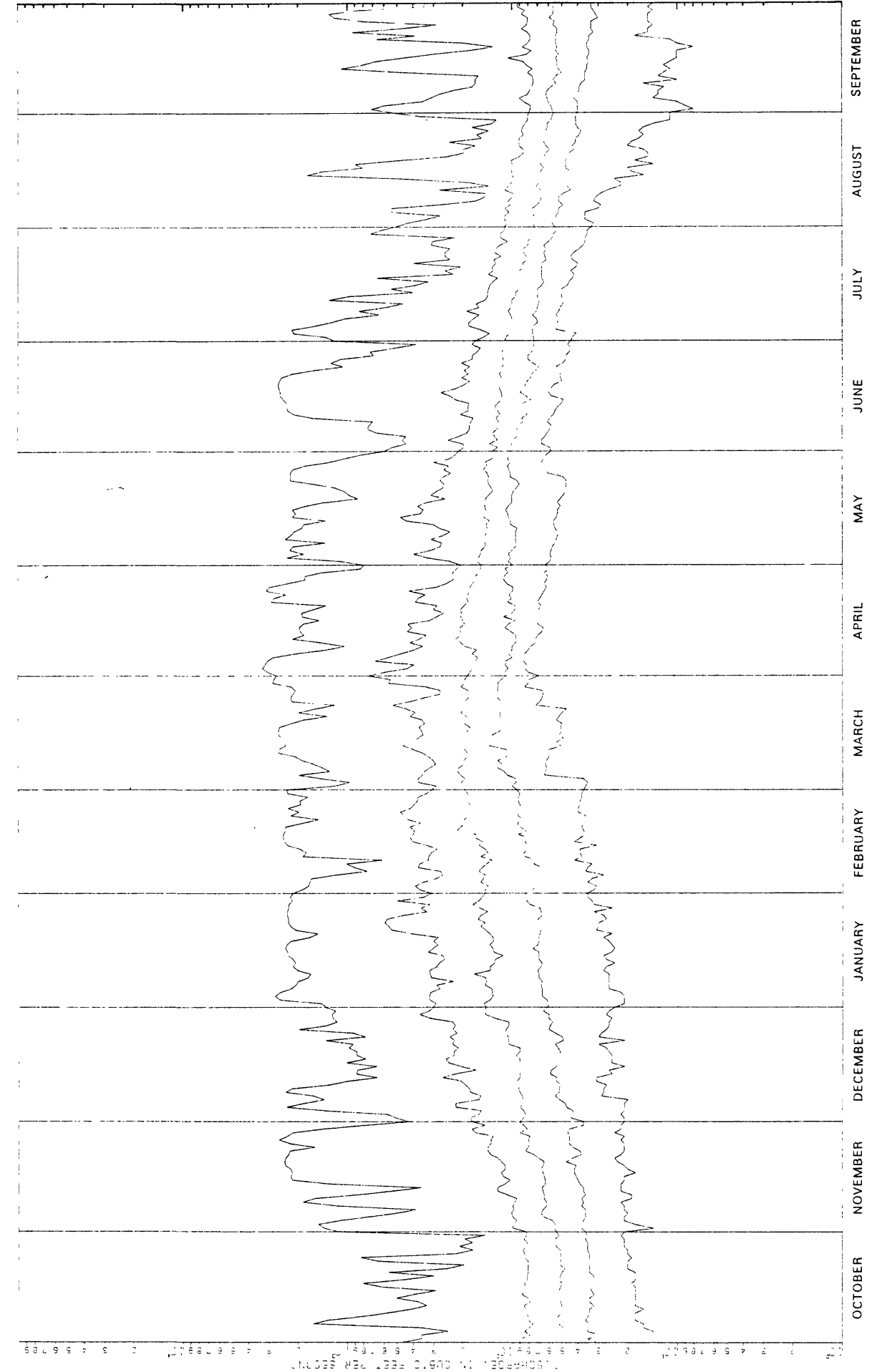
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1933



LITTLE RIVER DITCH 81 NEAR KENNETT MO

07041000

1931

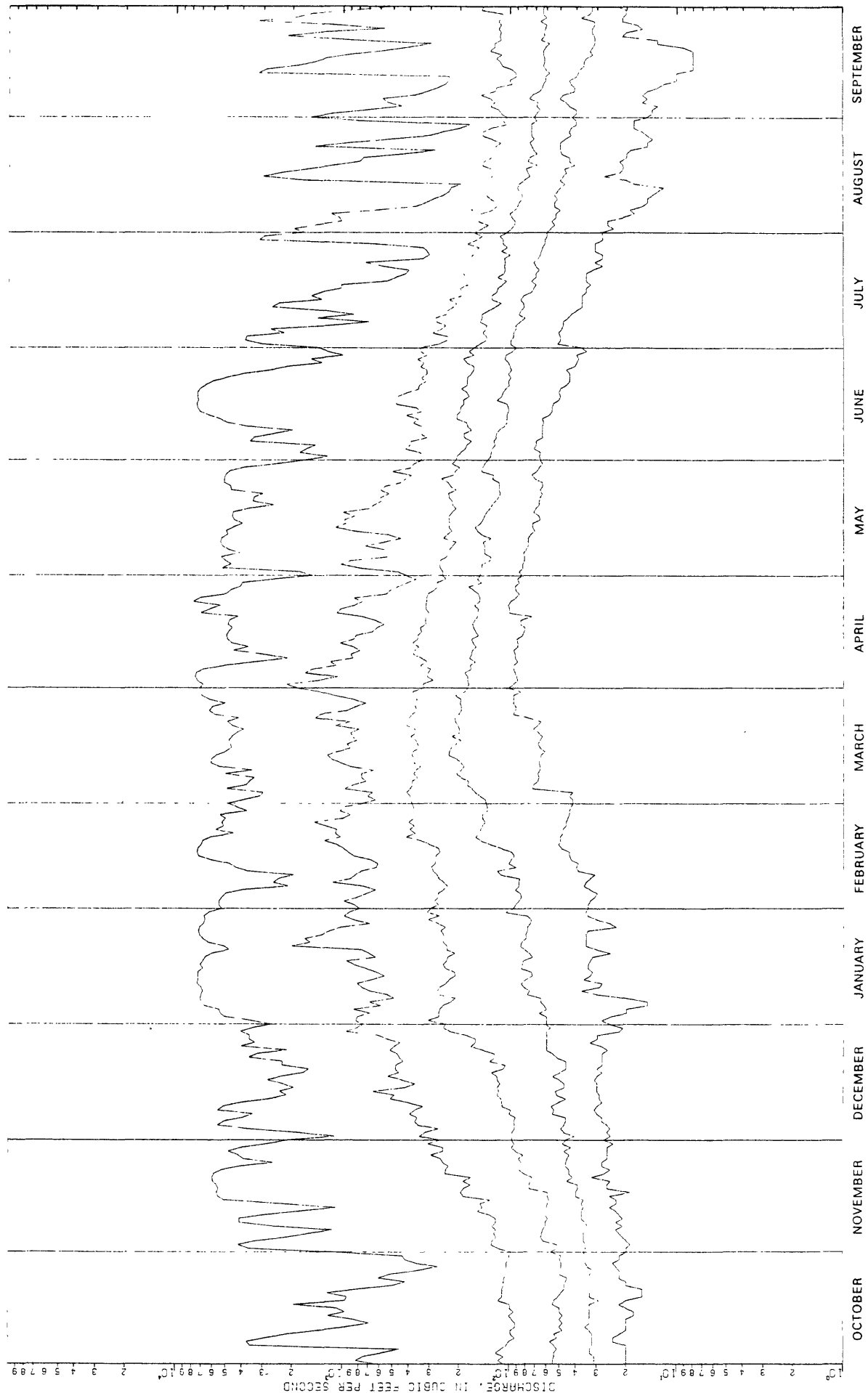


LITTLE RIVER DITCH 1 NEAR KENNETT MO

07042000

1931

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931



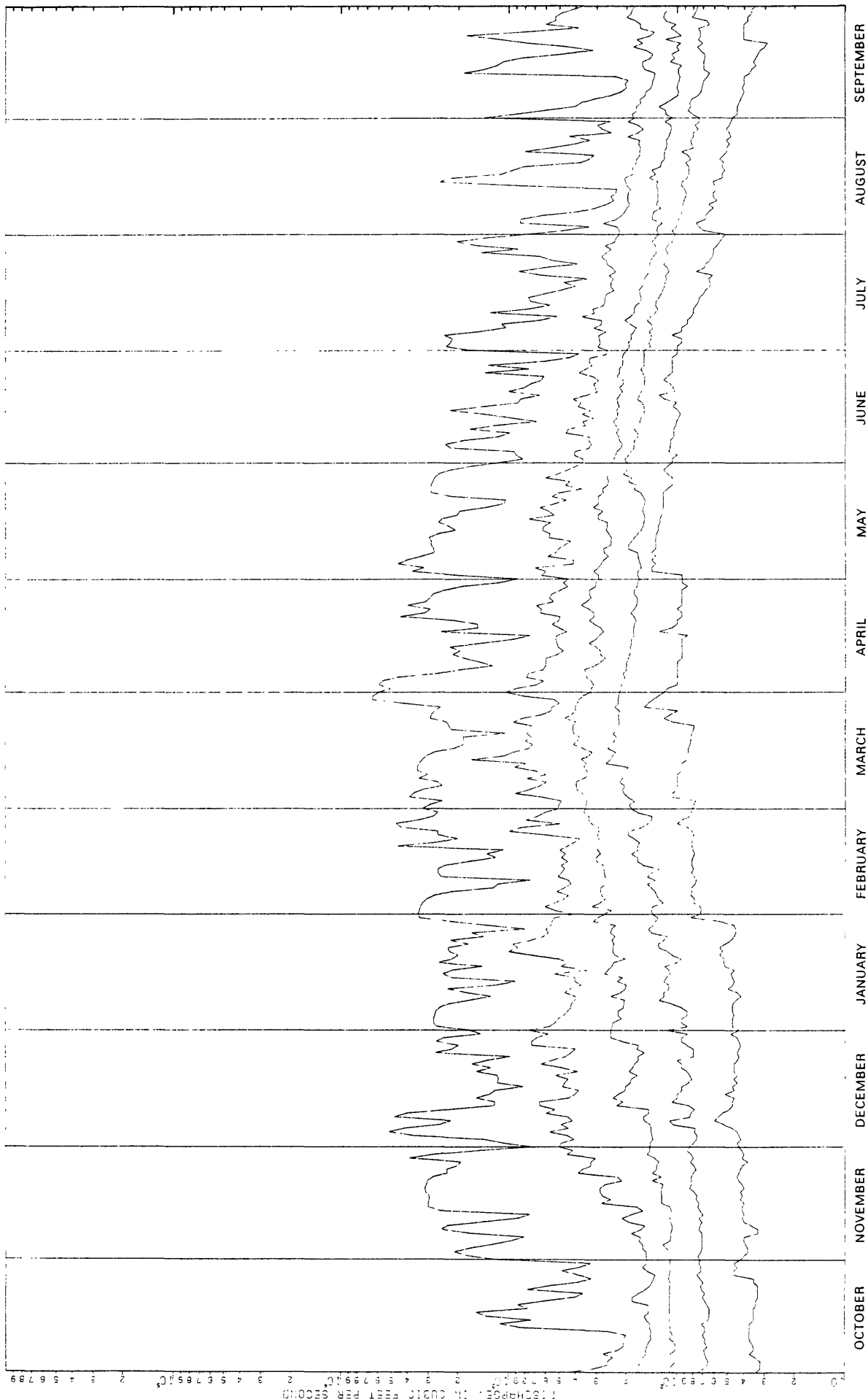
1951

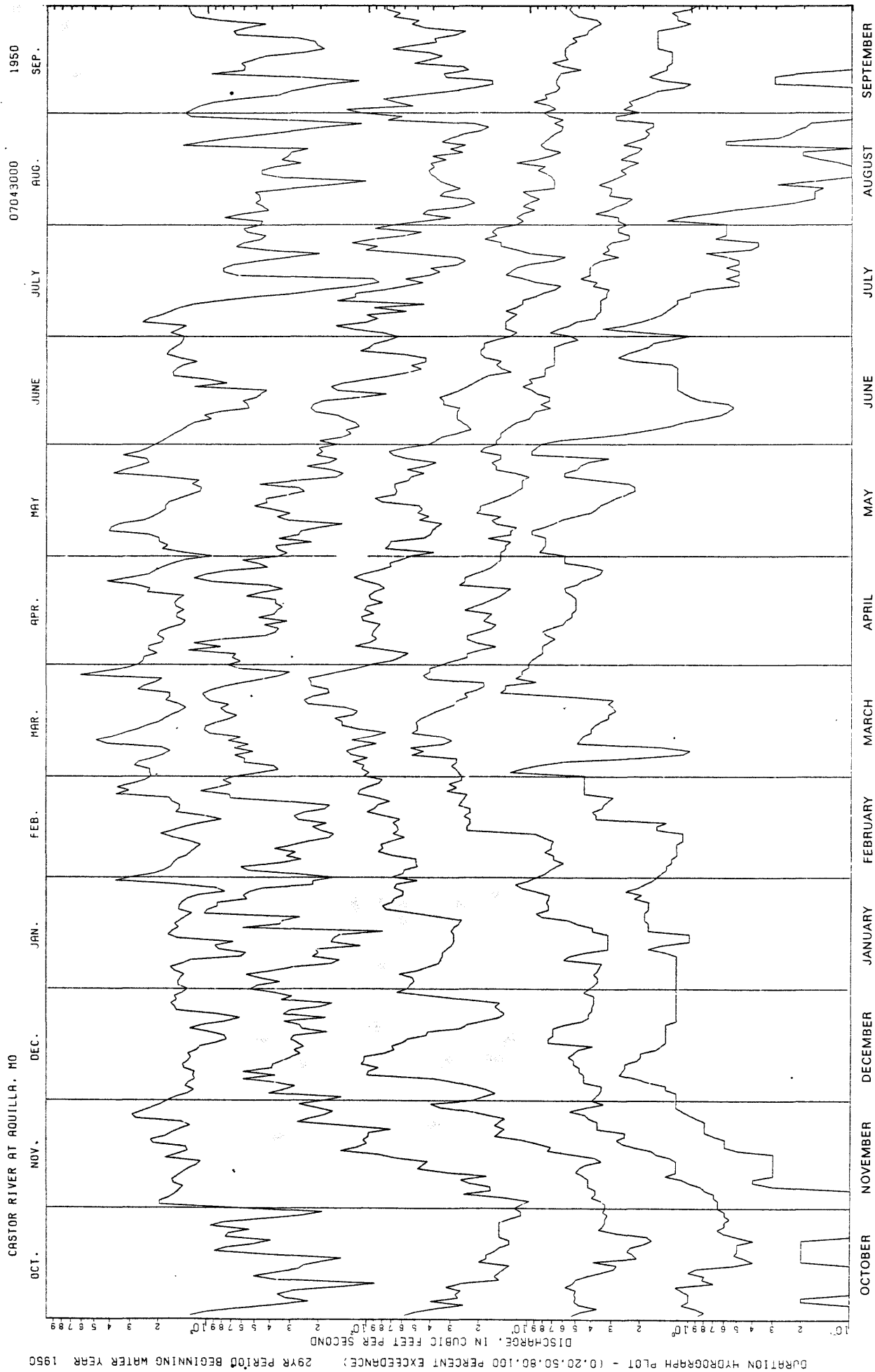
07042500

LITTLE RIVER DITCH 251 NEAR LILBOURN, MO

DISCHARGE IN CUBIC FEET PER SECOND

29YR PERIOD BEGINNING WATER YEAR 1951





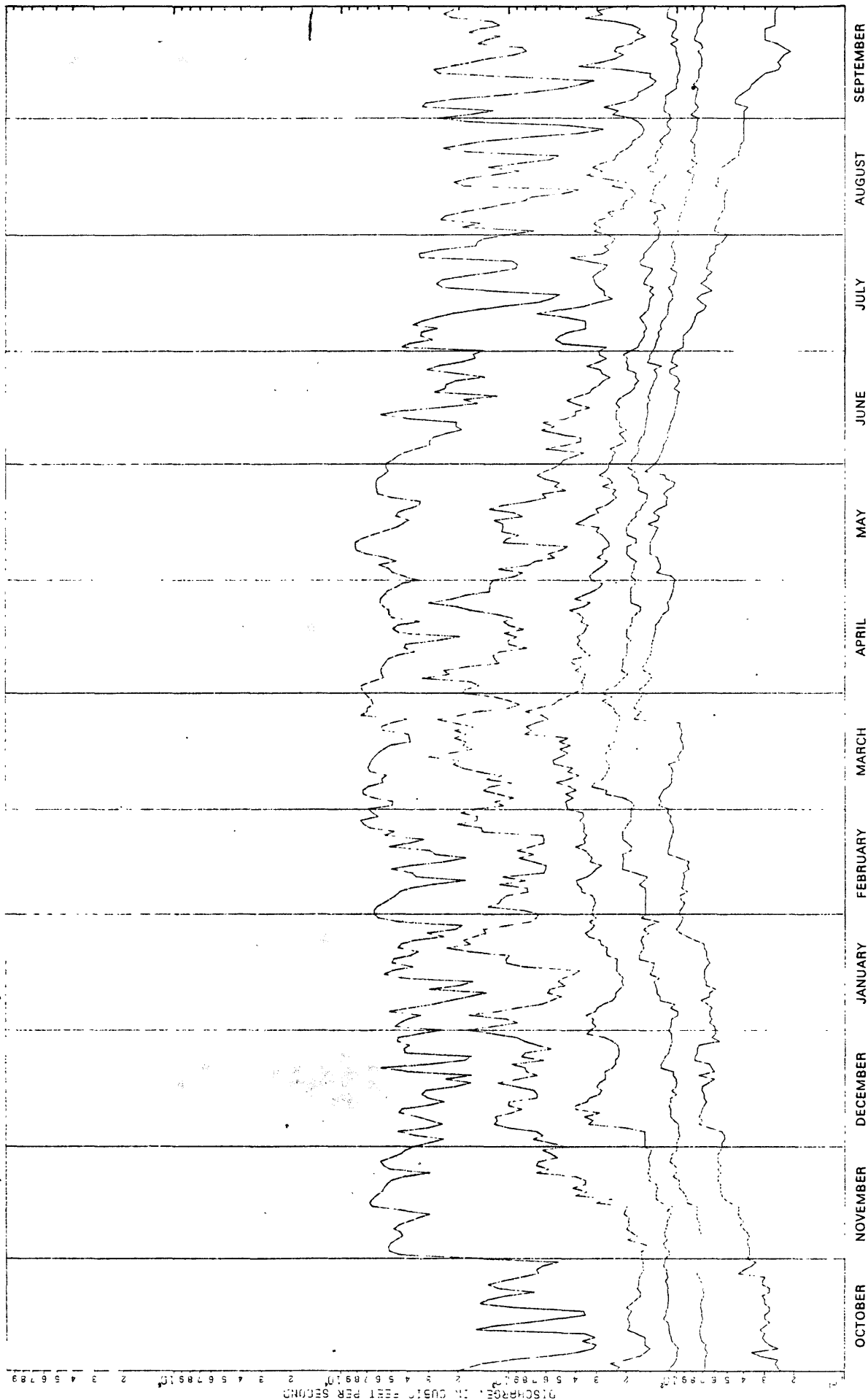
164

LITTLE RIVER DITCH NO 1 NEAR MOREHOUSE, MO.

07043500

1951

DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE: 29 YR PERIOD BEGINNING WATER YEAR 1951



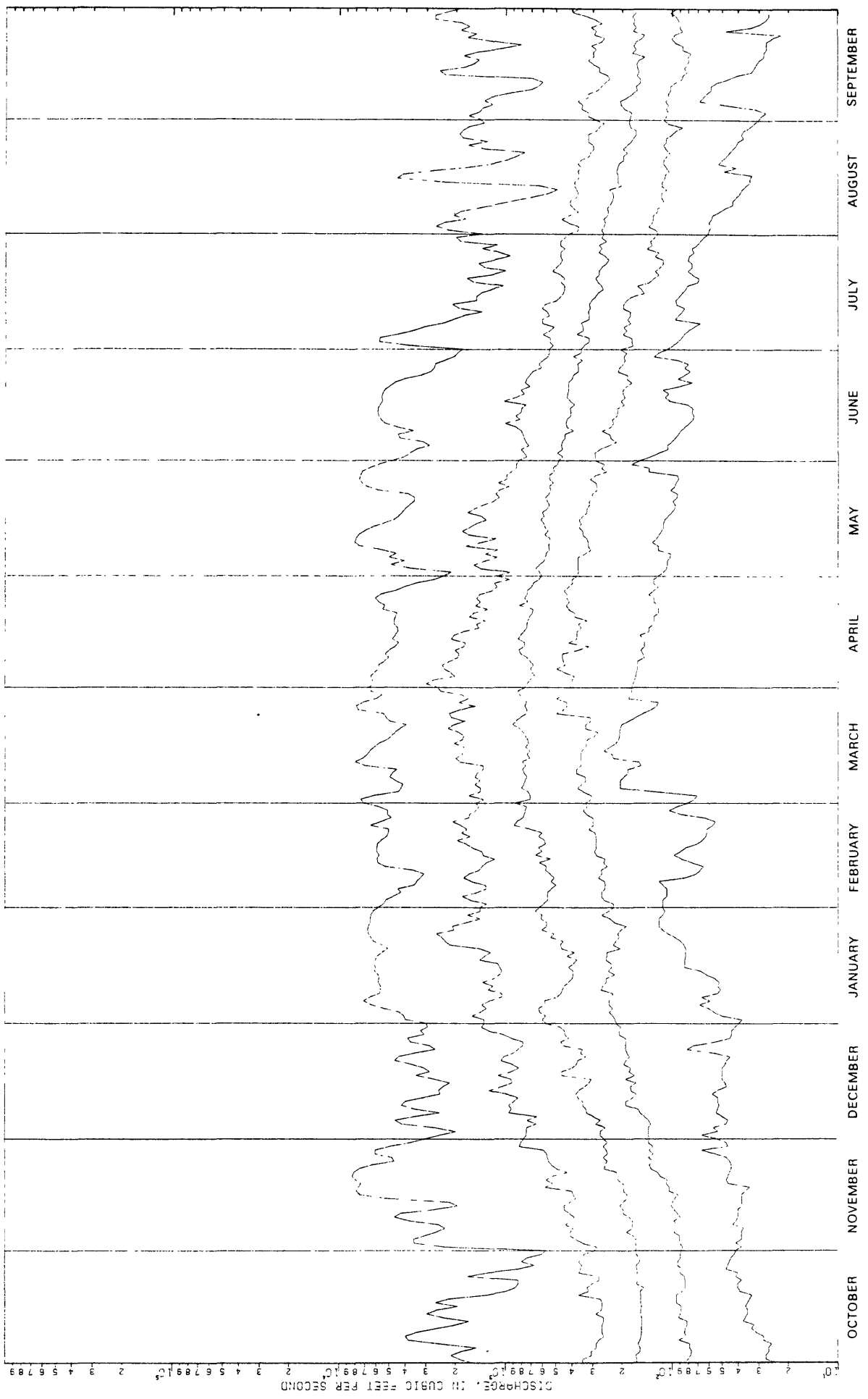
165

LITTLE RIVER DITCH 251 NEAR KENNETT MO

0704000

1931

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

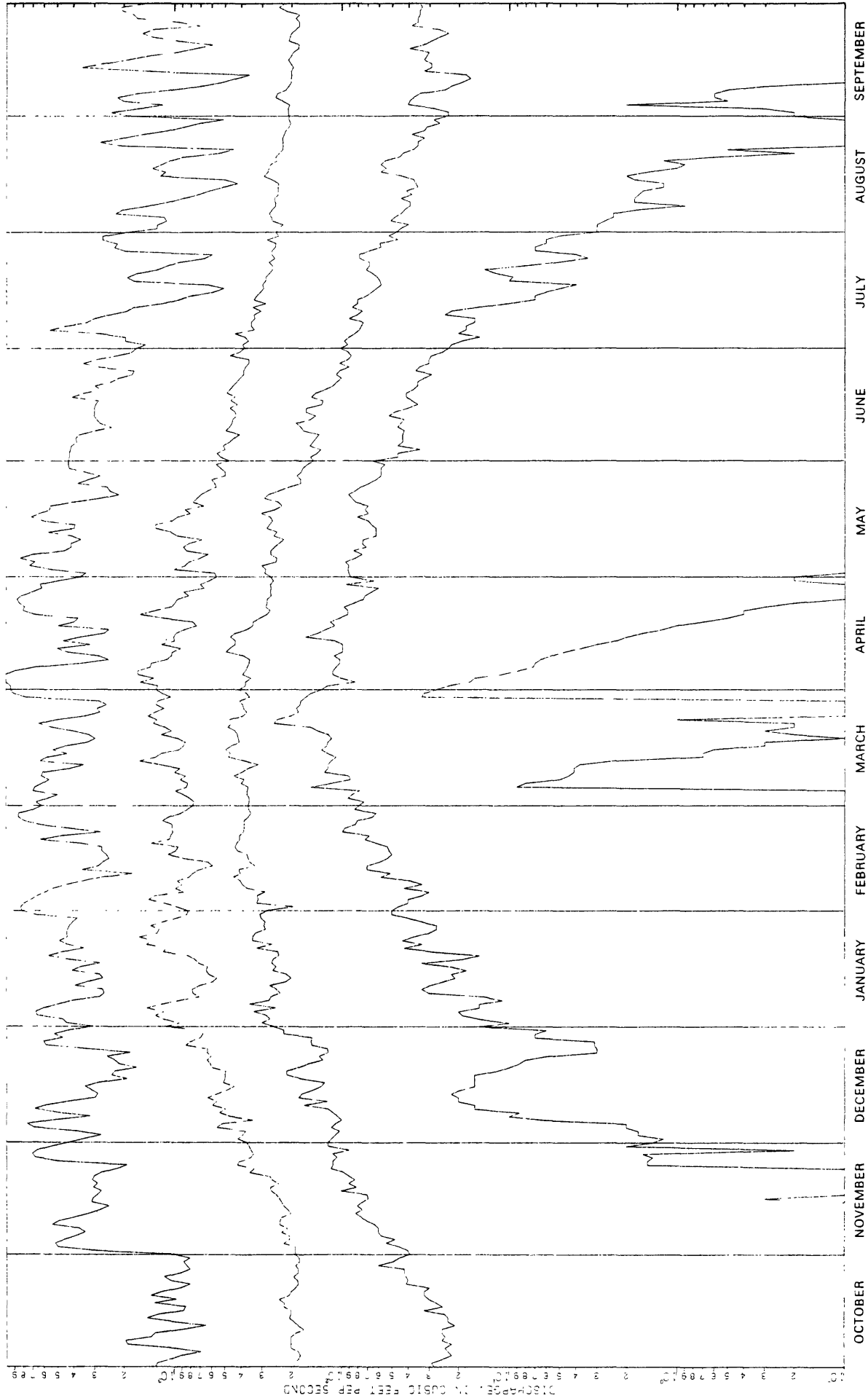


LITTLE RIVER DITCH 66 NEAR KENNETT MO

07045000

1931

DURATION: HYDROGRAPH PLOT - (0.02, 0.03, 0.05, 0.10, 0.20, 0.50, 1.00 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931



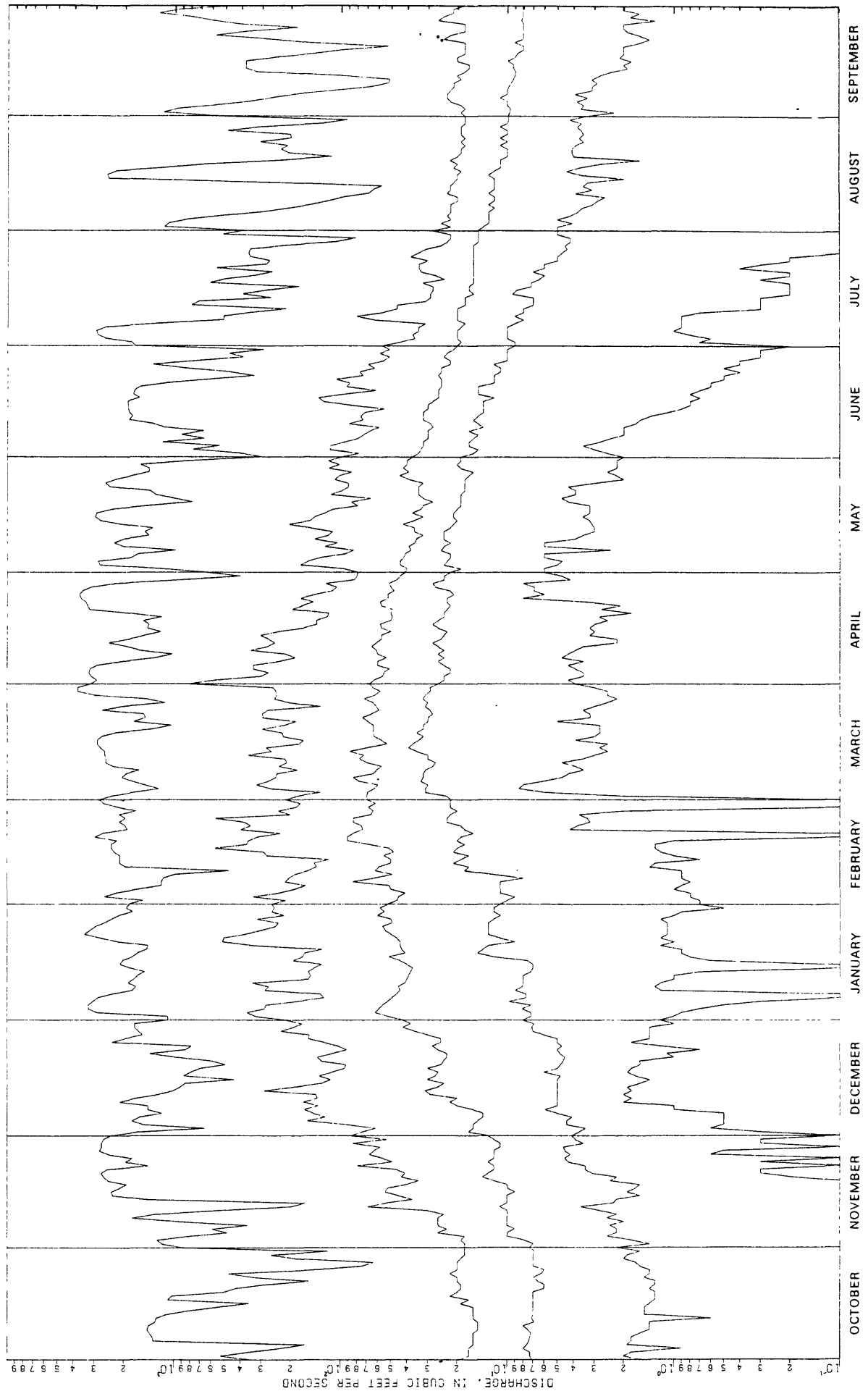
167

LITTLE RIVER DITCH 259 NEAR KENNETT MO

07046000

1931

DURATION HYDROGRAPH PLOT - (0.2, 0.5, 1.0, 2.0, 5.0, 10.0 PERCENT EXCEEDANCE) 49 YR PERIOD BEGINNING WATER YEAR 1931

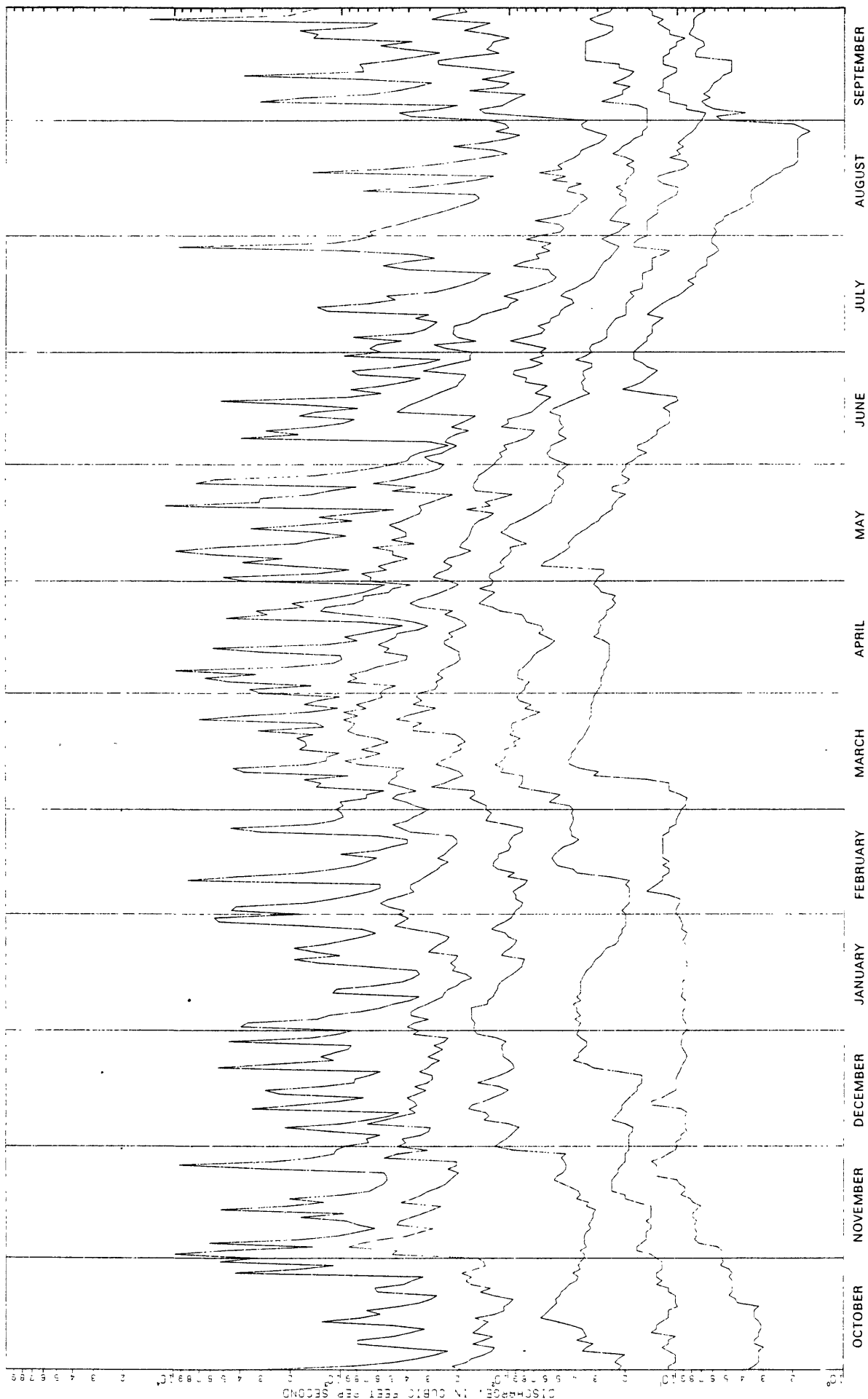


JAMES RIVER NEAR SPRINGFIELD, MO.

07050700

1961

DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE, 1919 PERIOD BEGINNING WATER YEAR 1961

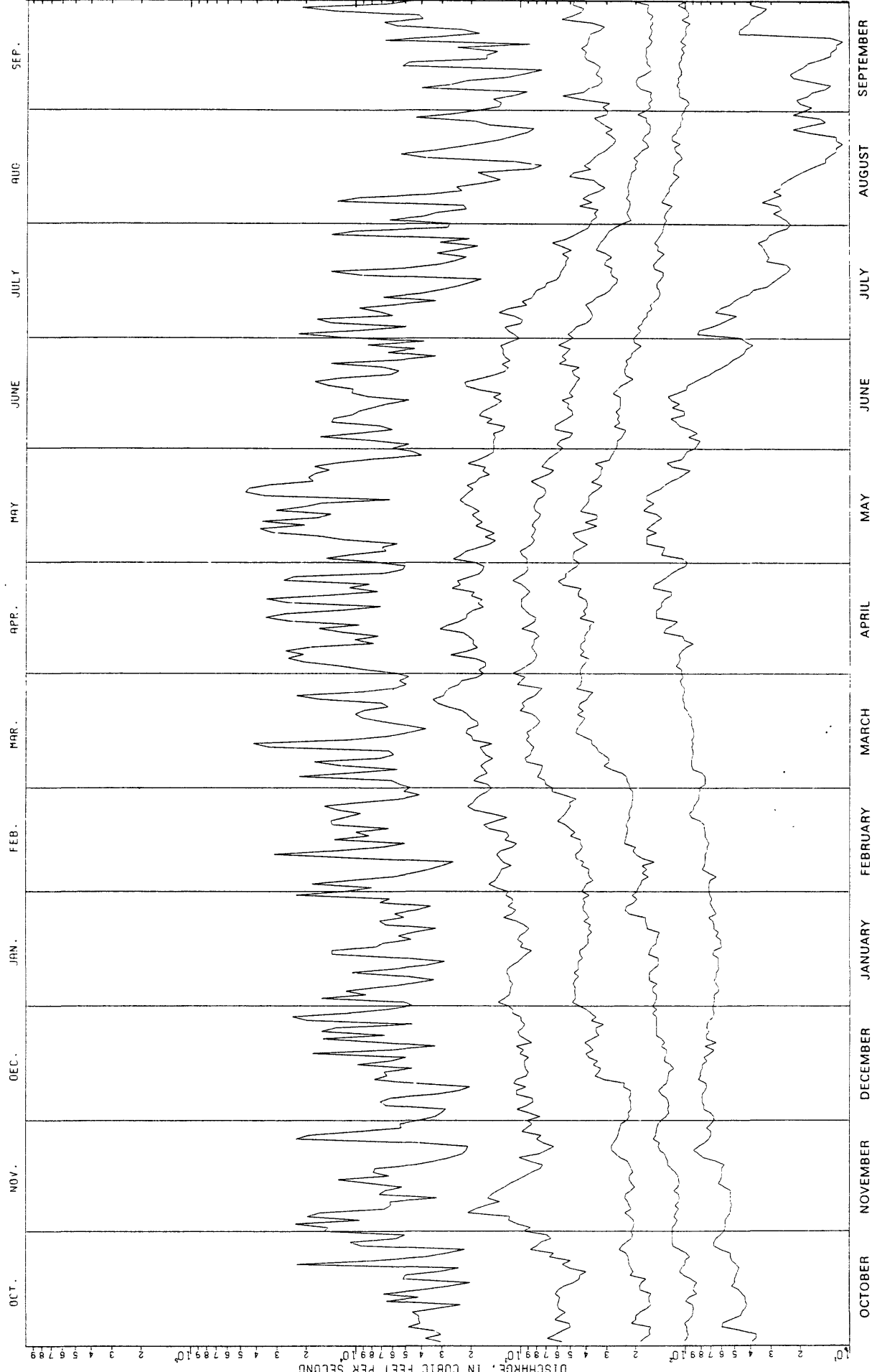


DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE 49YR PERIOD BEGINNING WATER YEAR 1930

JAMES RIVER AT CALENA, MO

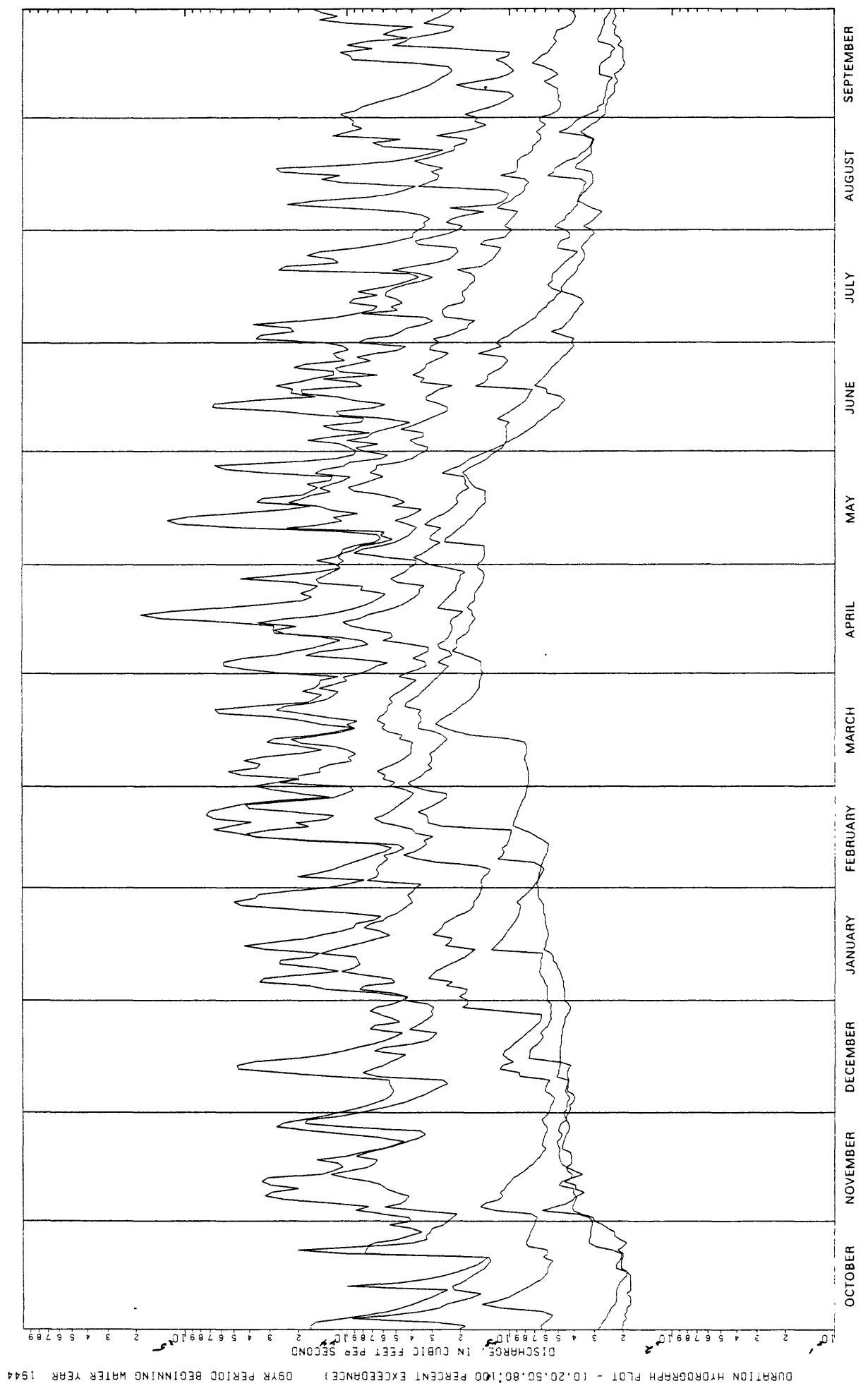
07052500

1930



100

WHITE RIVER NEAR REEDS SPRING, MO. 07053000 1944



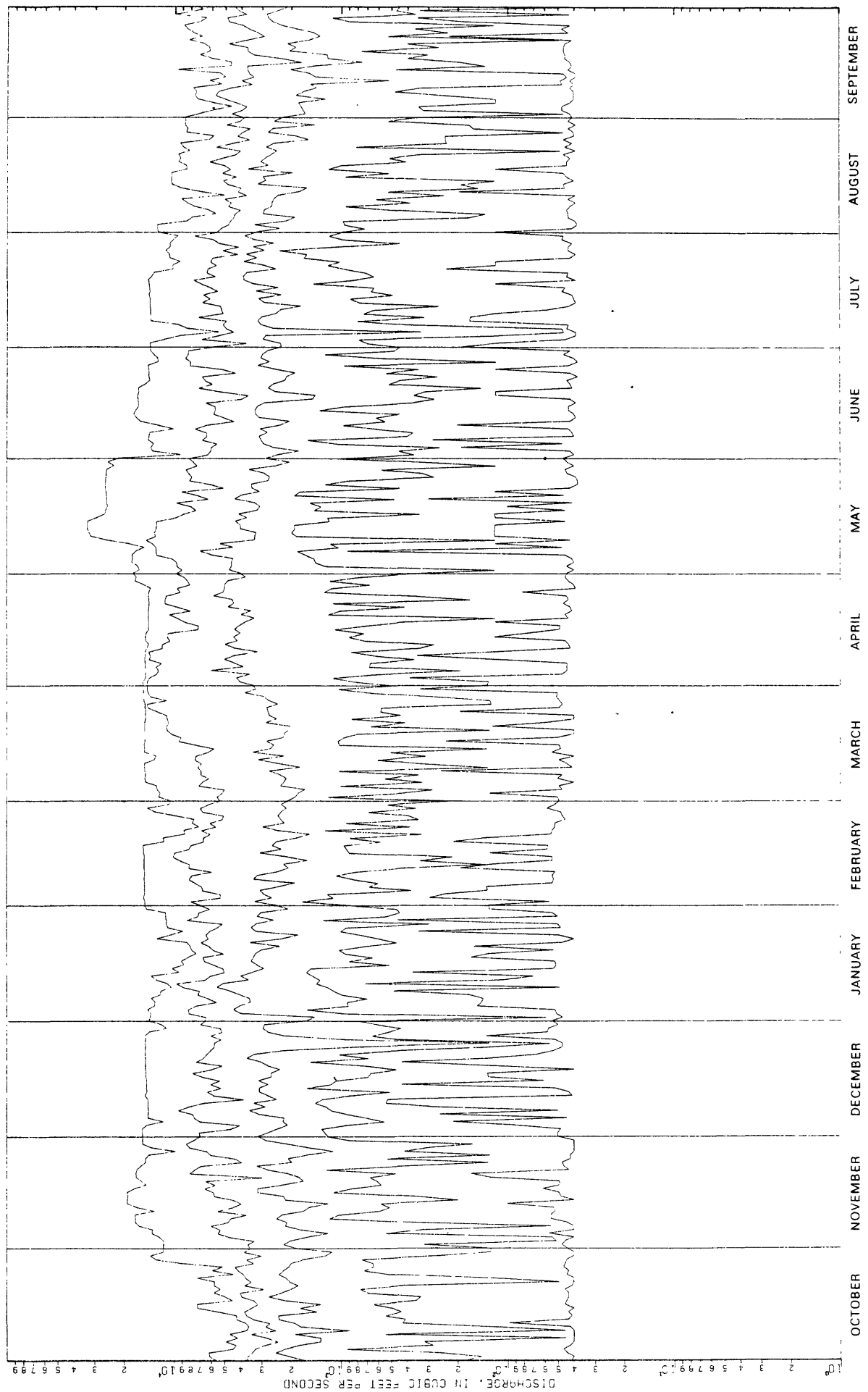
1971

WHITE RIVER NEAR BRANSON, MO.

07053500

1961

DURATION HYDROGRAPH PLOT - 10, 20, 50, 80, 100 PERCENT EXCEEDANCE: 1971 PERIOD BEGINNING WATER YEAR 1961



1572

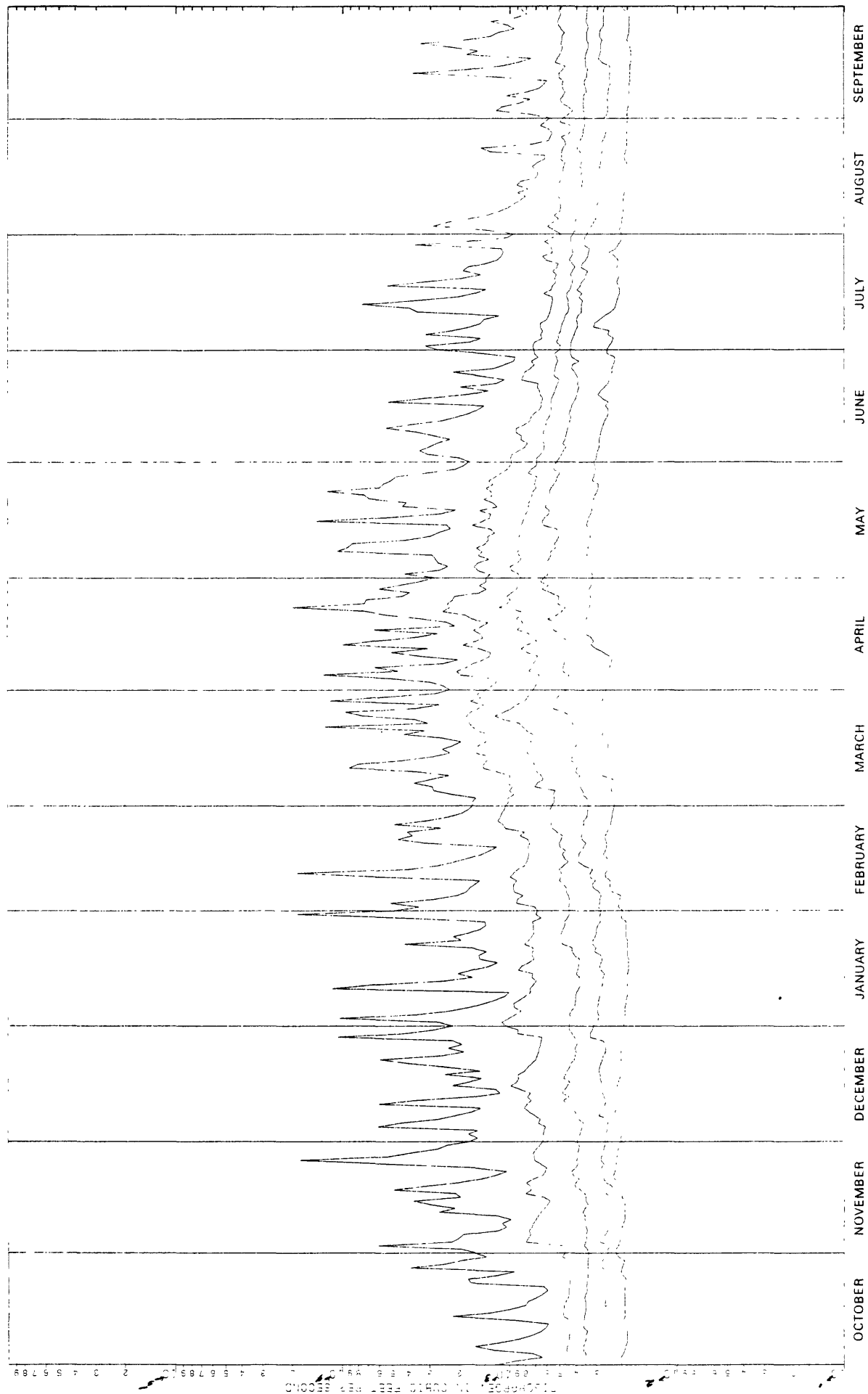
NORTH FORK RIVER NEAR TECUMSEH, MO

07057500

1951

DURATION: 0.00:50.87, 1.00 FEET IN 0.00:50.87, 1.00 FEET PER SECOND

WATER YEAR 1951



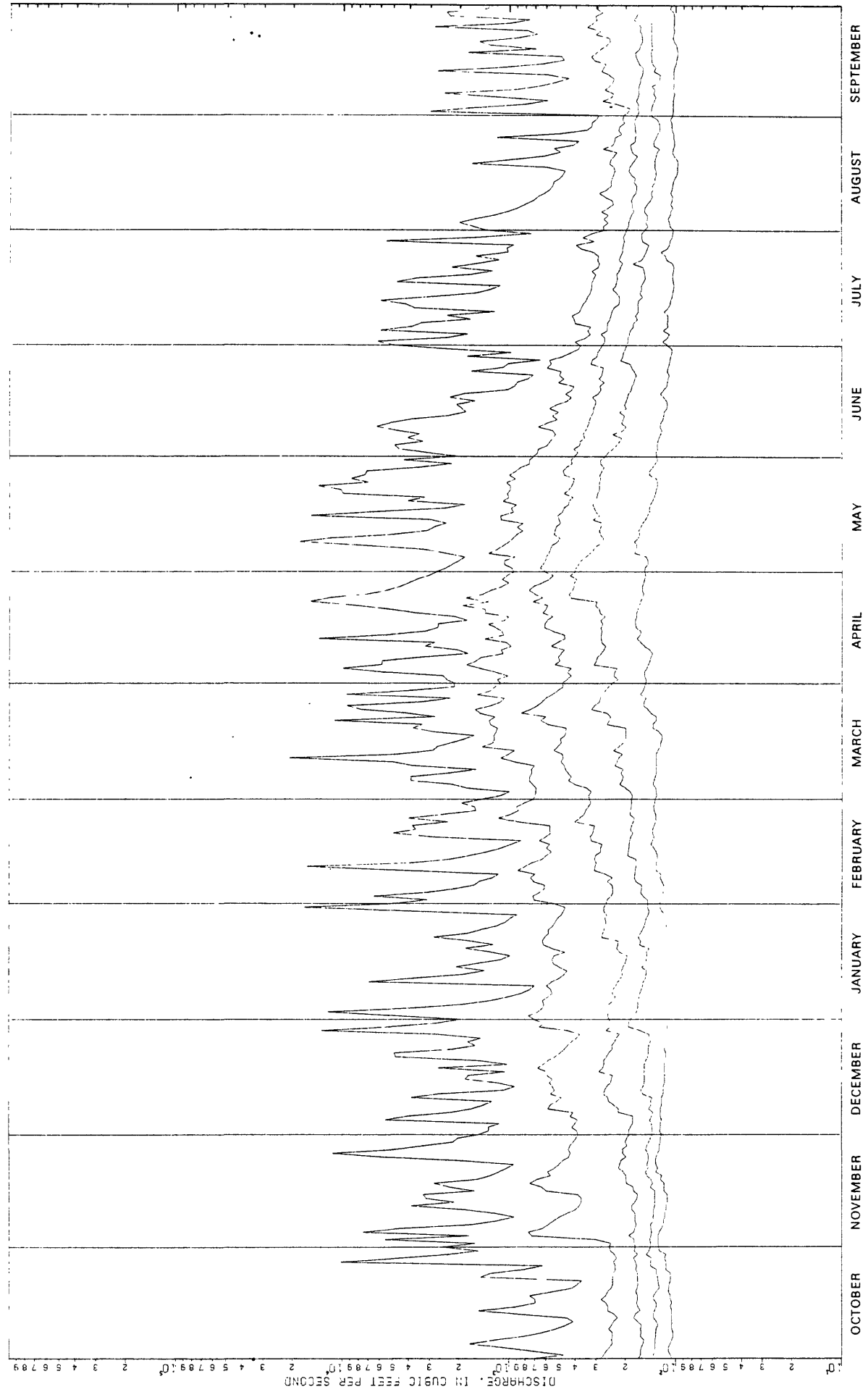
193

BRYANT CREEK NEAR TECUMSEH, MO

07058000

1951

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 29YR PERIOD BEGINNING WATER YEAR 1951



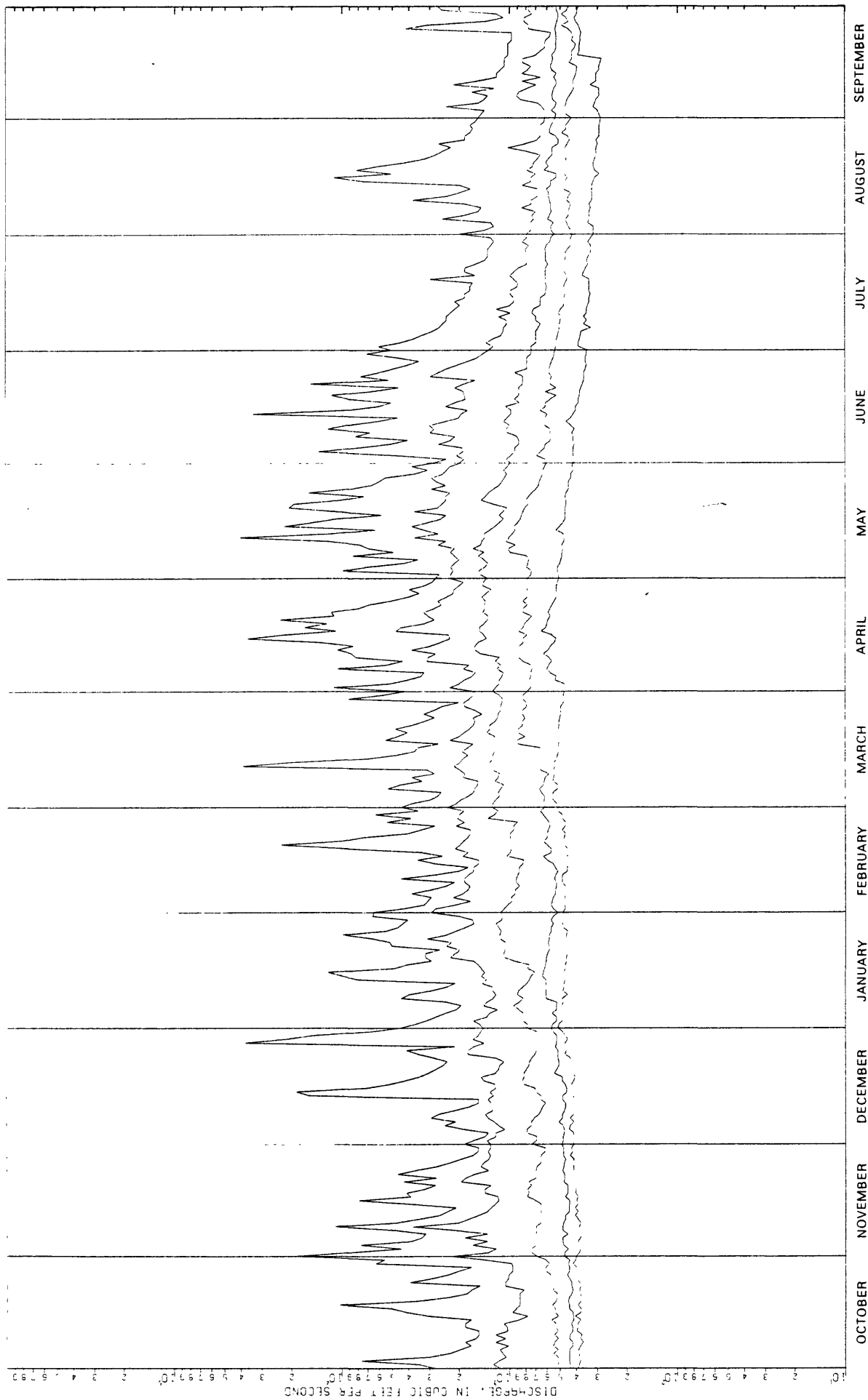
194

DURATION HYDROGRAPH PLOT - 10.20.50.80.100 PERCENT EXCEEDANCE, 19YR PERIOD BEGINNING WATER YEAR 1926

NORTH FORK RIVER AT HUNSMAN

07058500

1926



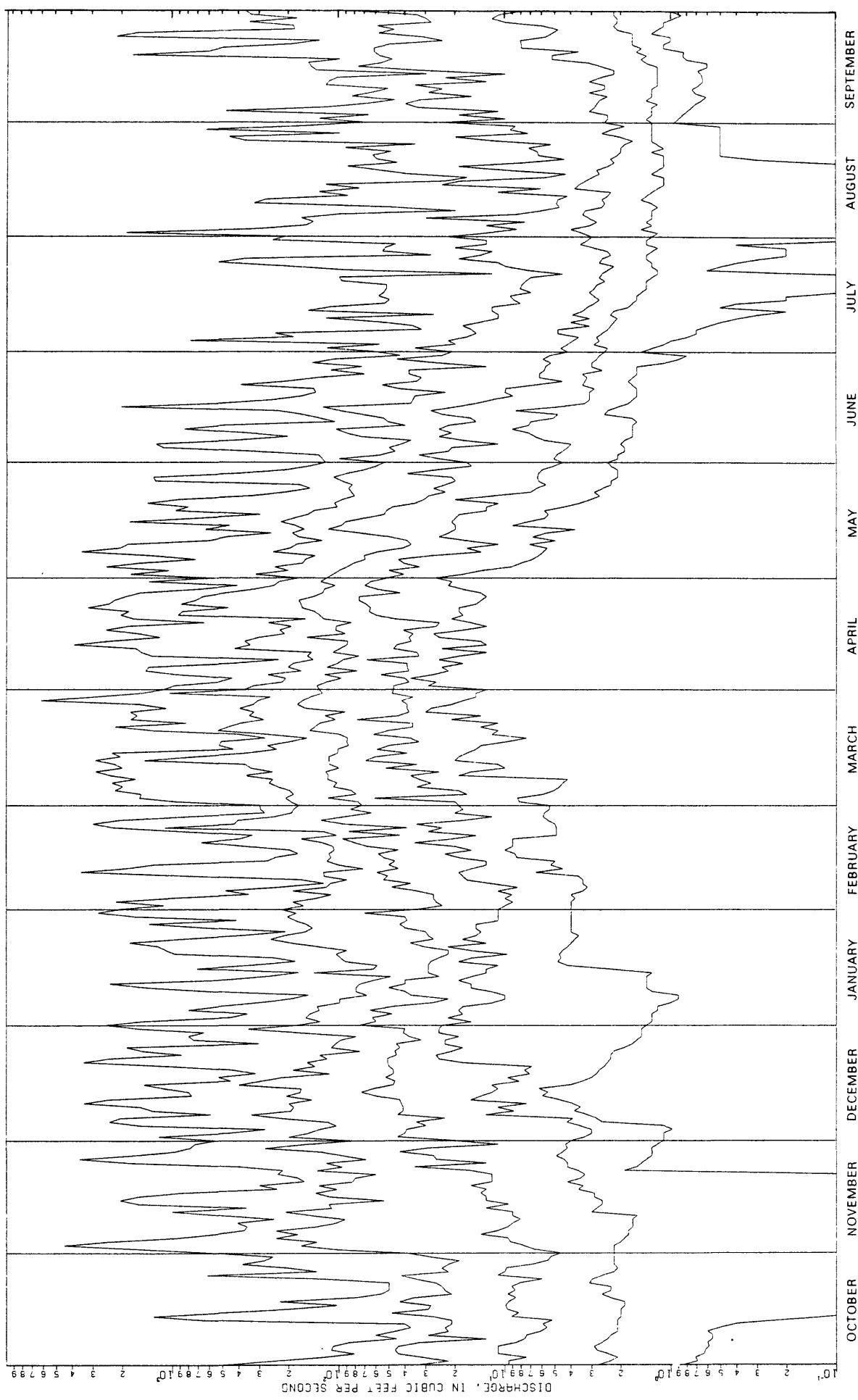
195

EAST FORK BLACK RIVER AT LESTERVILLE, MO

07061300

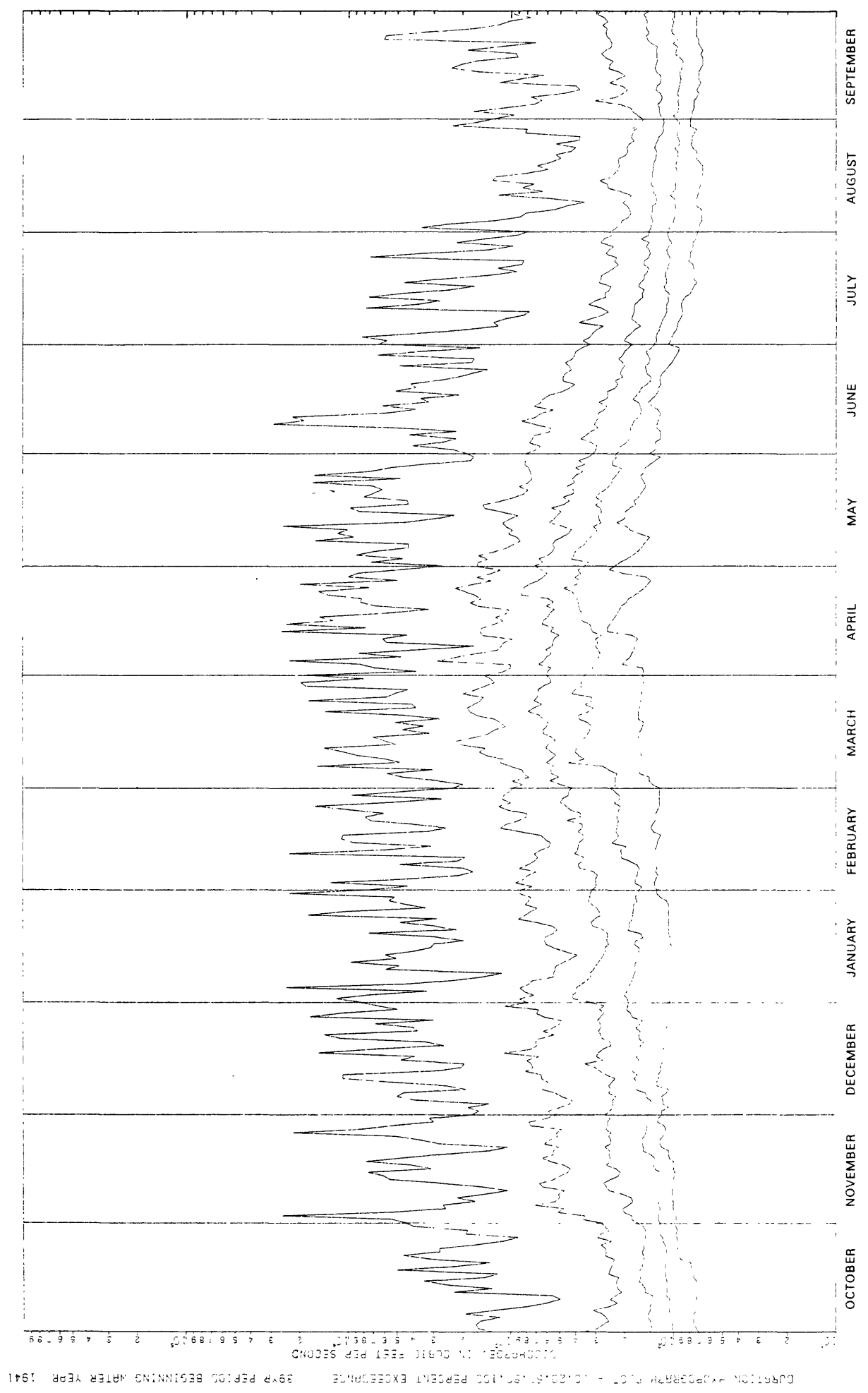
1961

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1961

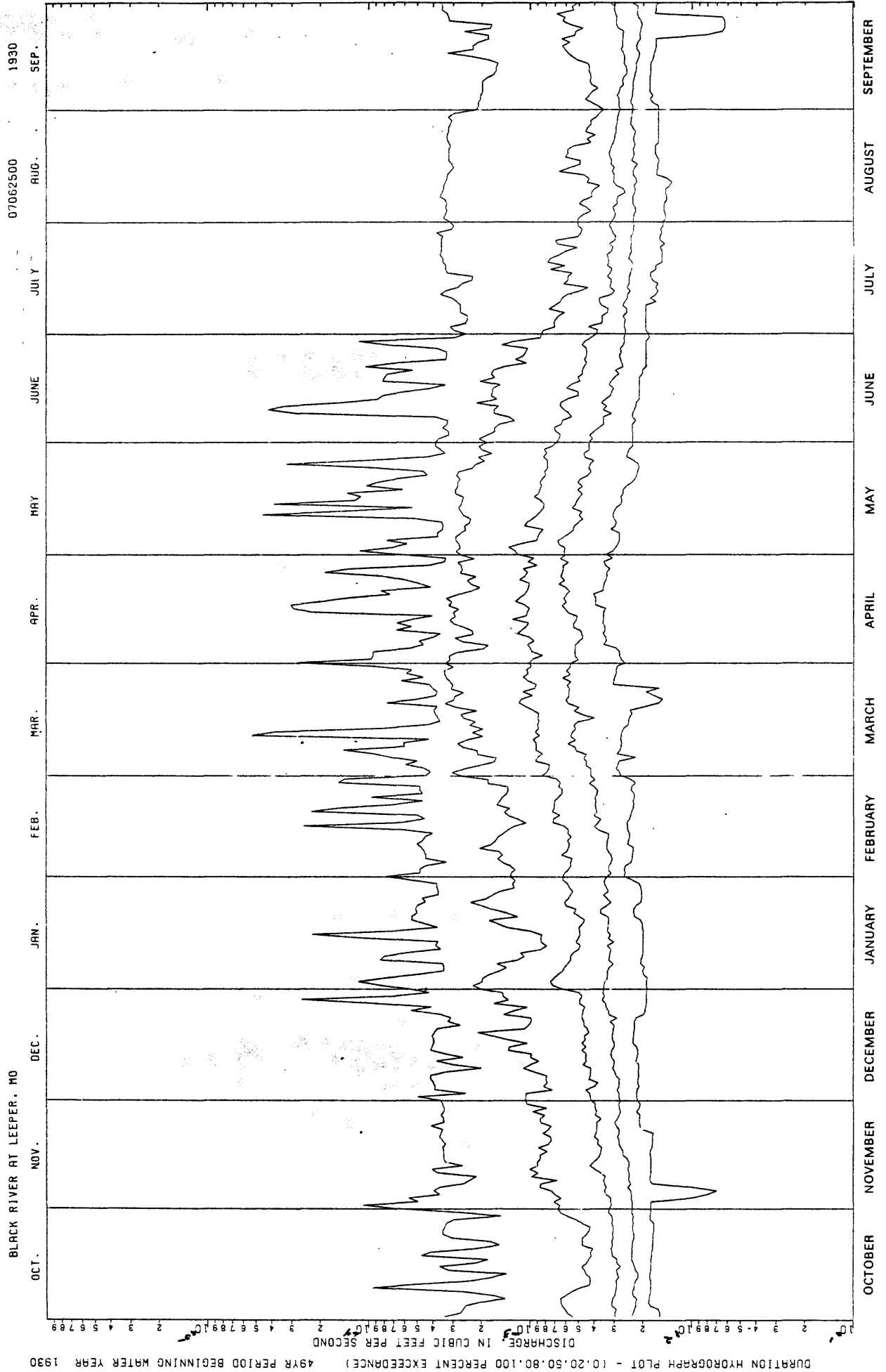


152

BLACK RIVER NEAR ANNAPOLIS, MD 07061500 1941



177



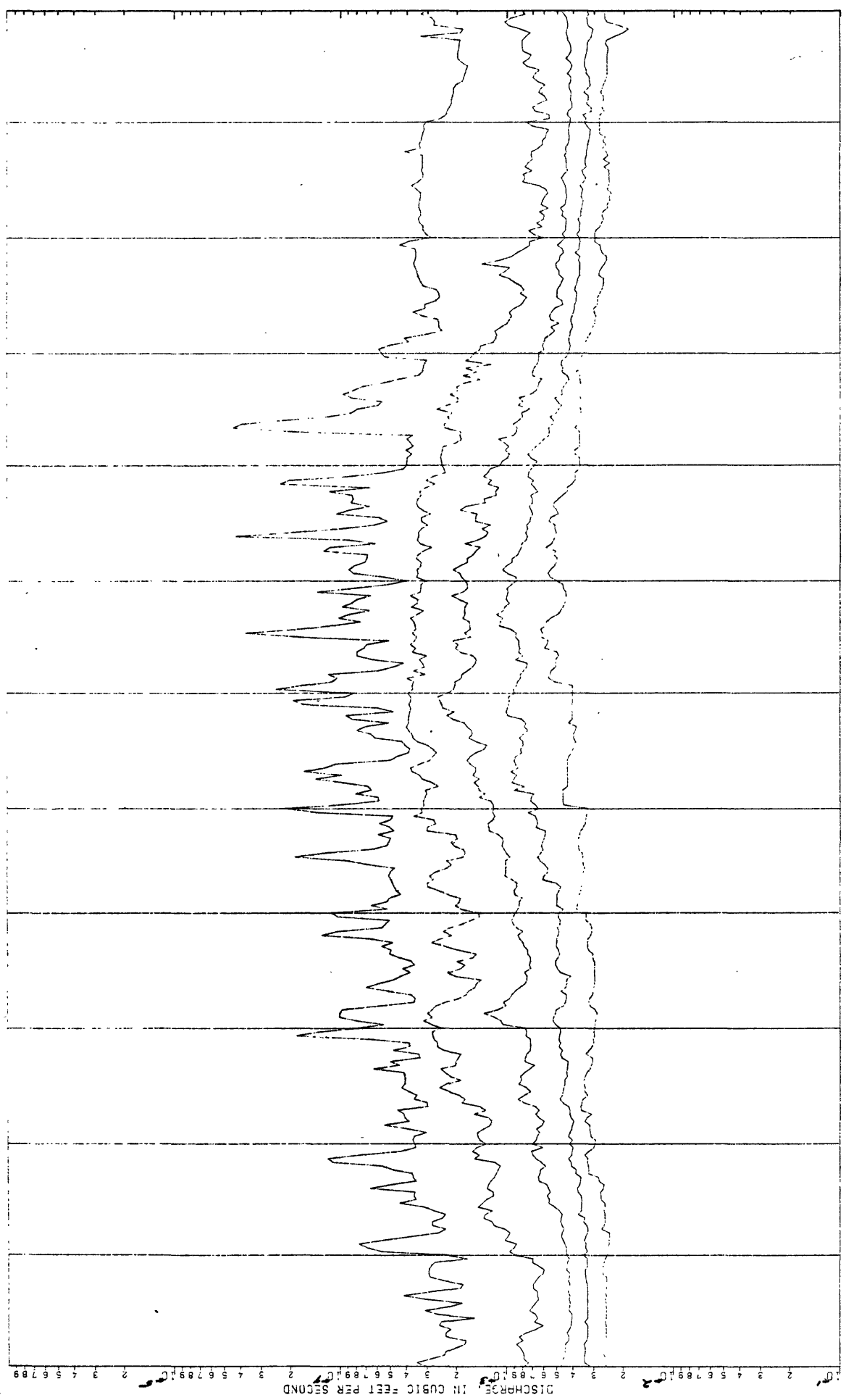
AA

198

07003000 1941

BLACK RIVER AT POPLAR BLUFF, MO

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941



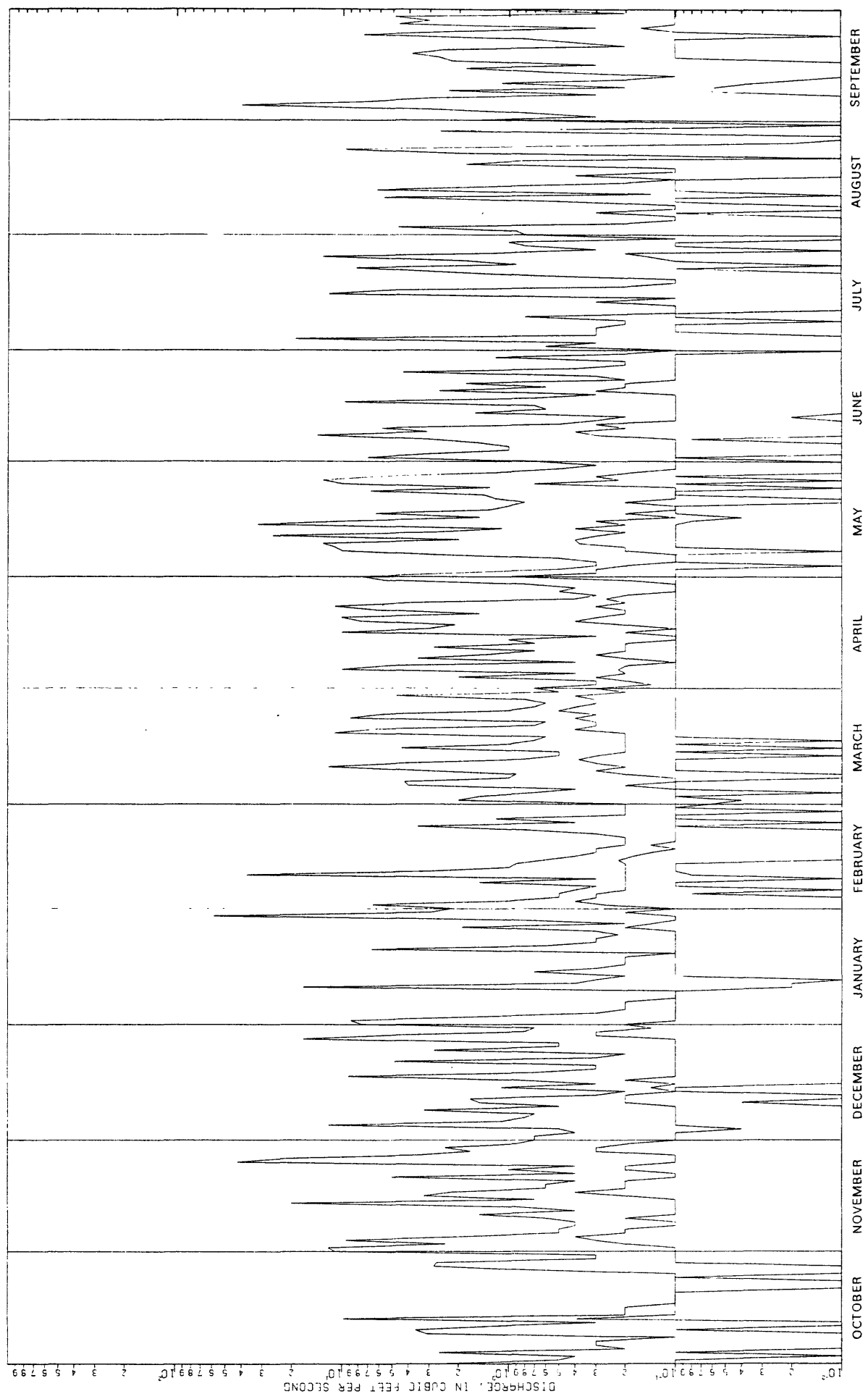
179

FUDGE HOLLOW NR LICKING, MO

07064300

1958

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1958

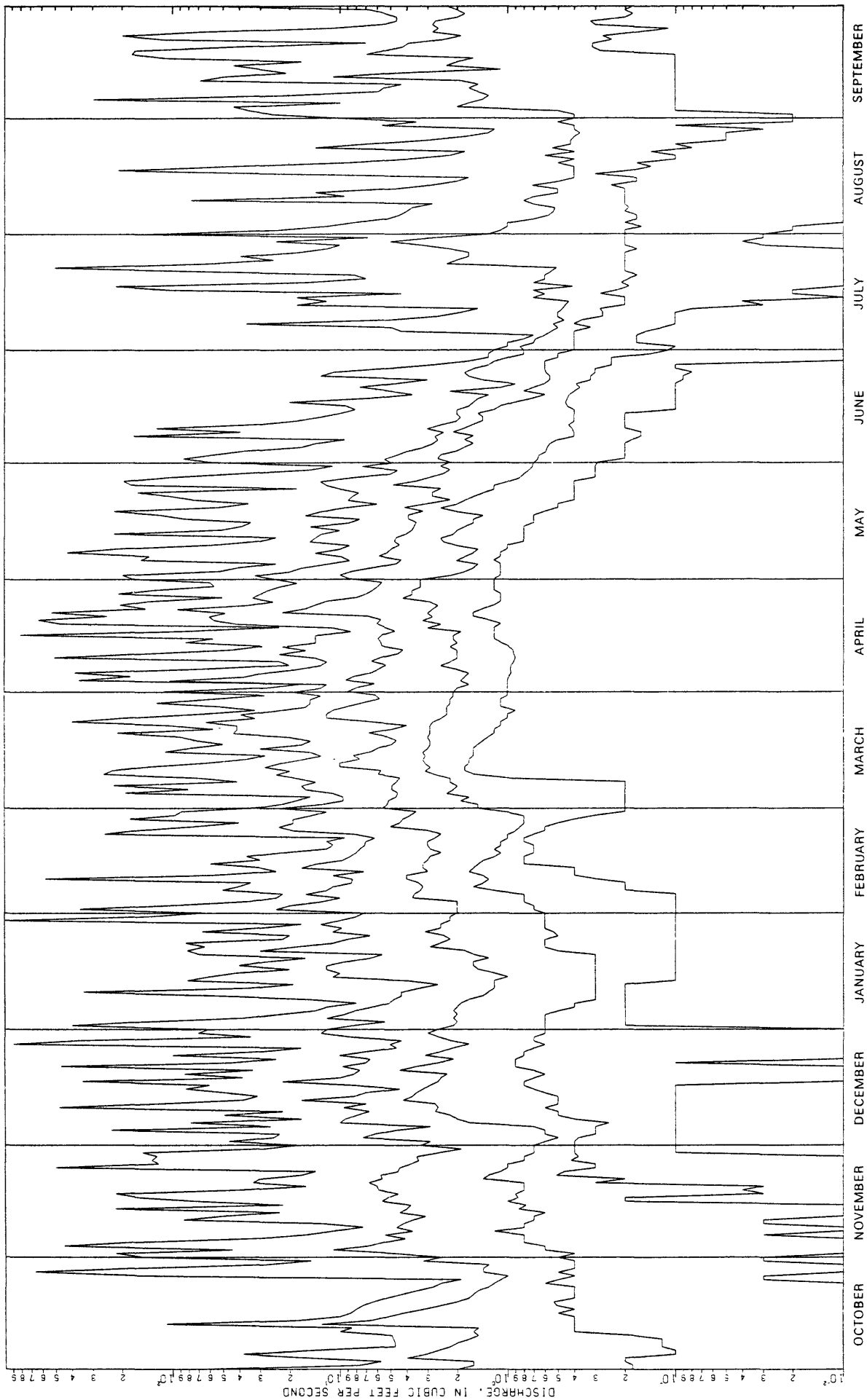


BIG CREEK NEAR YUKON, MO

07064500

1957

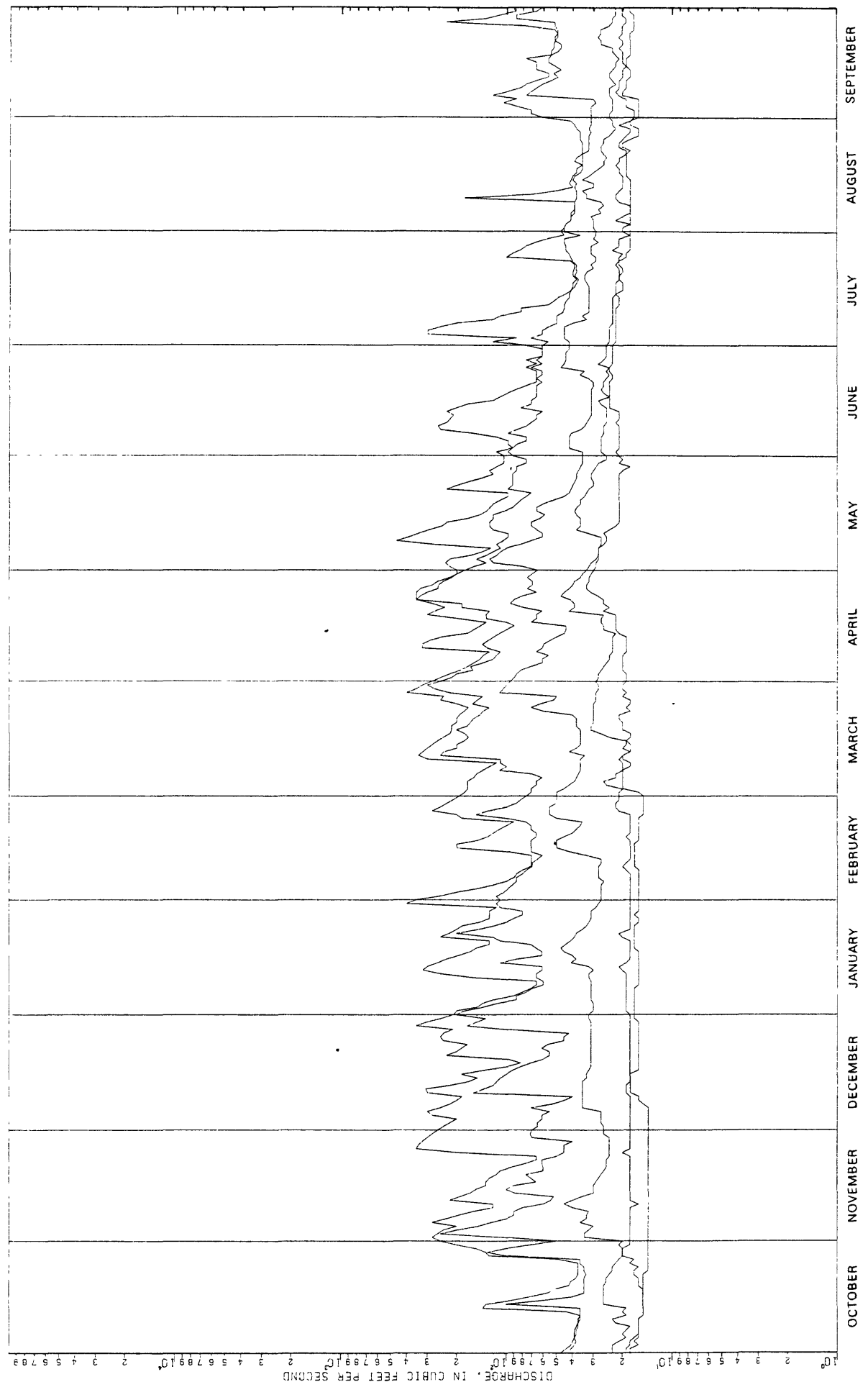
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 19R PERIOD BEGINNING WATER YEAR 1957



07055000 1969

ROUND SPRING AT ROUND SPRING MO

DURATION HYDROGRAPH PLOT - (0.29,50,80,100 PERCENT EXCEEDANCE) 09R PERIOD BEGINNING WATER YEAR 1969

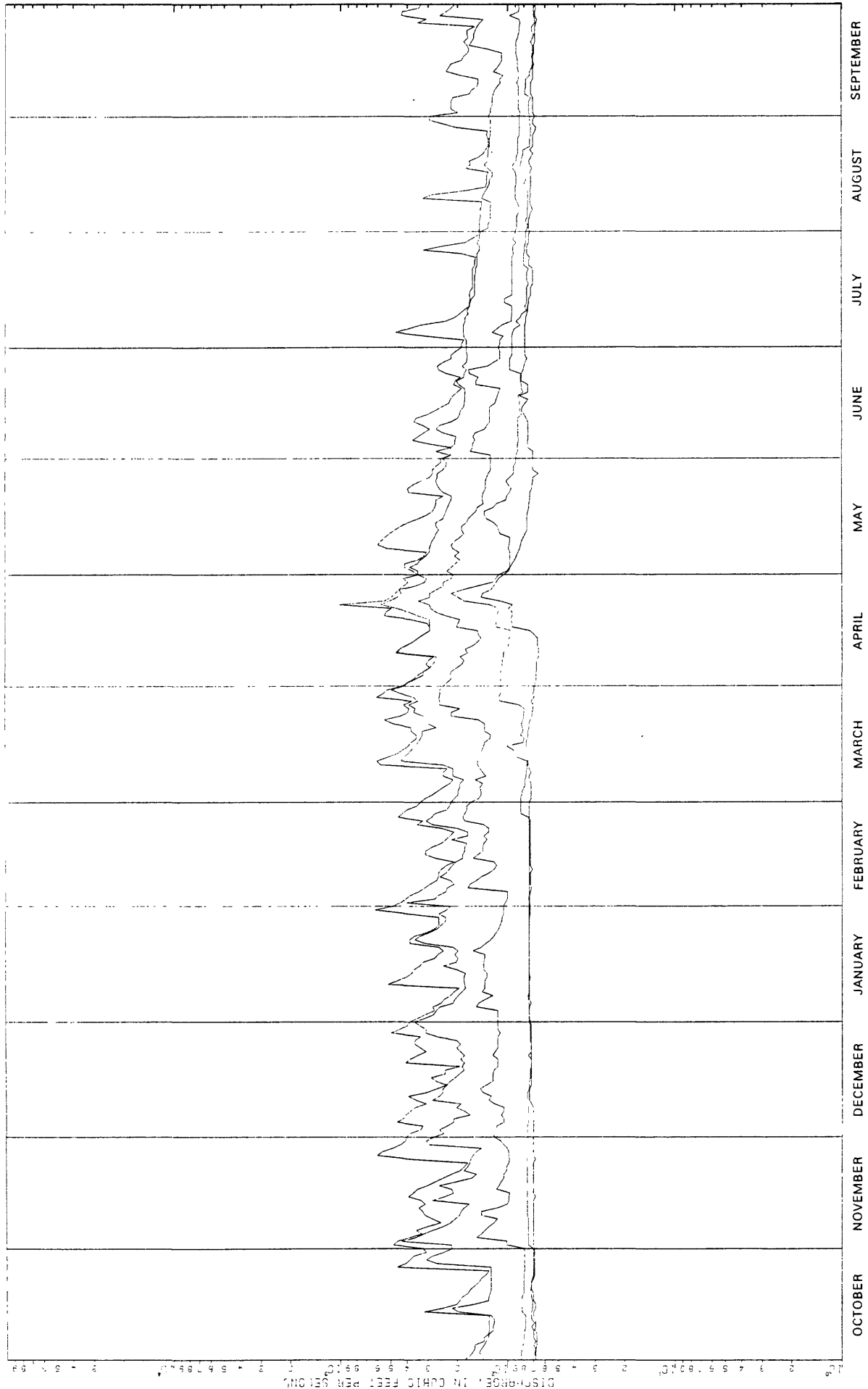


RILEY SPRING AT RILEY NO

0 065509

1969

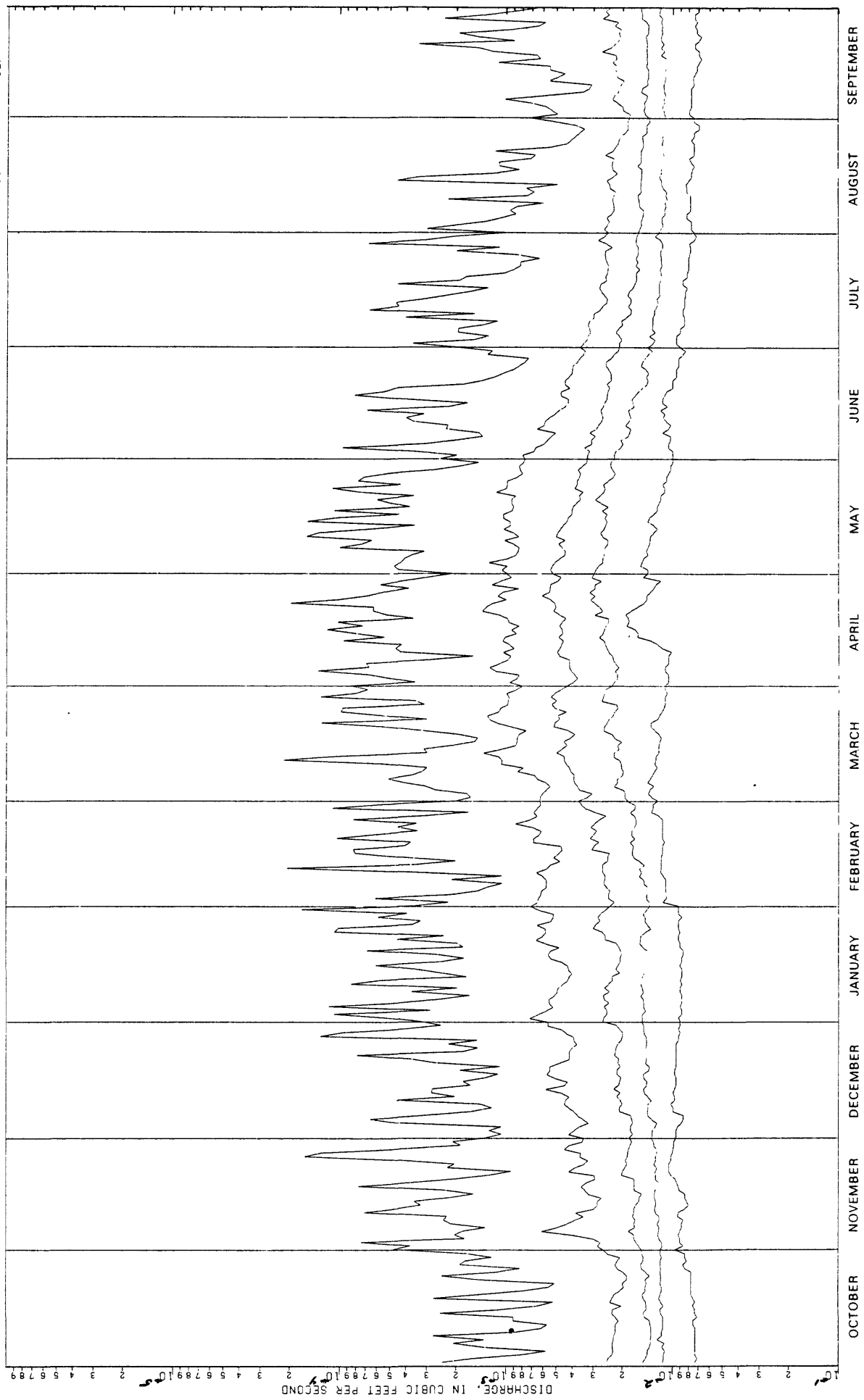
DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) CAP PERIOD BEGINNING WATER YEAR 1969



JACKS FORK AT EMINENCE, MO

07066000 1930 SEP.

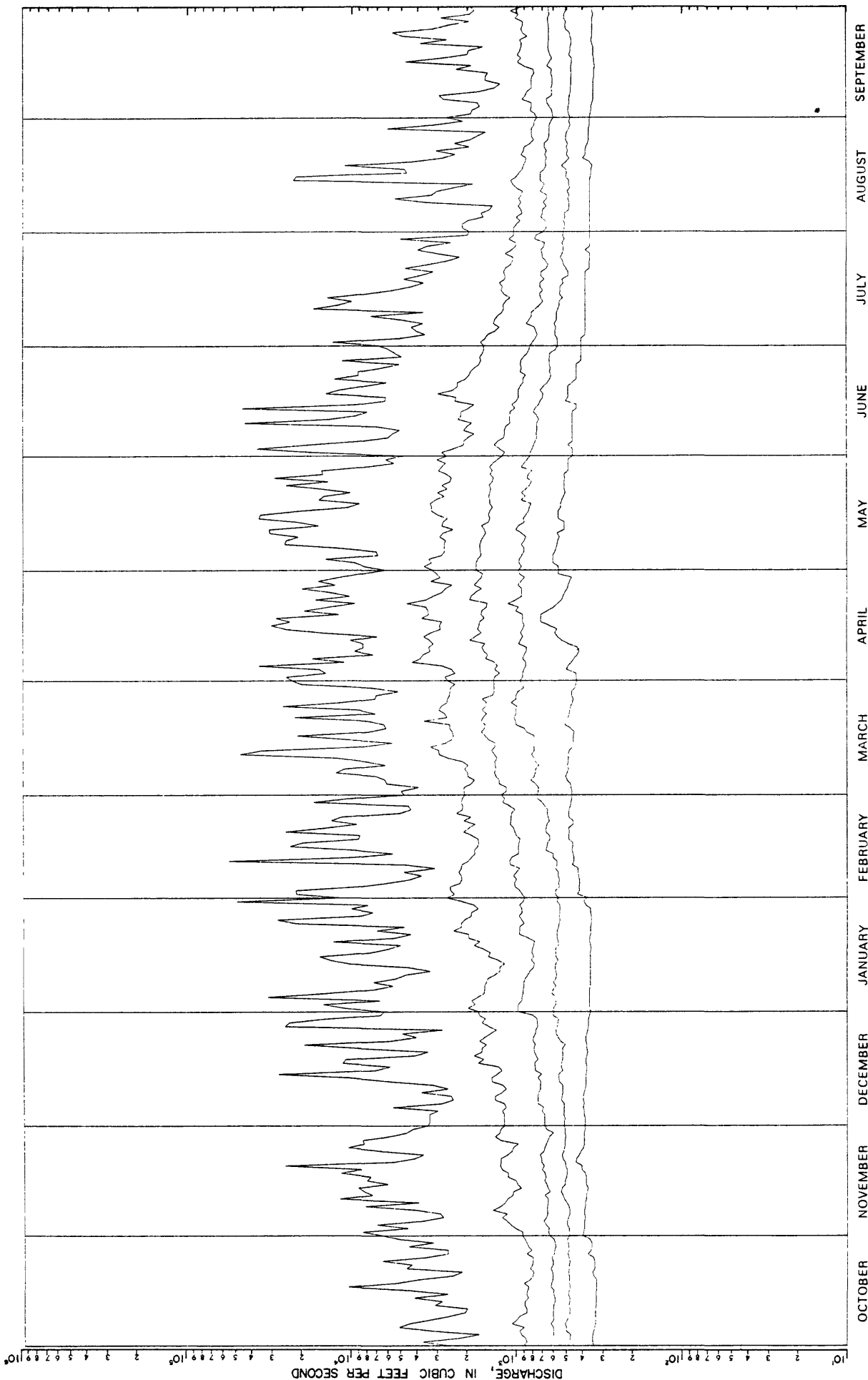
DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1930



1922

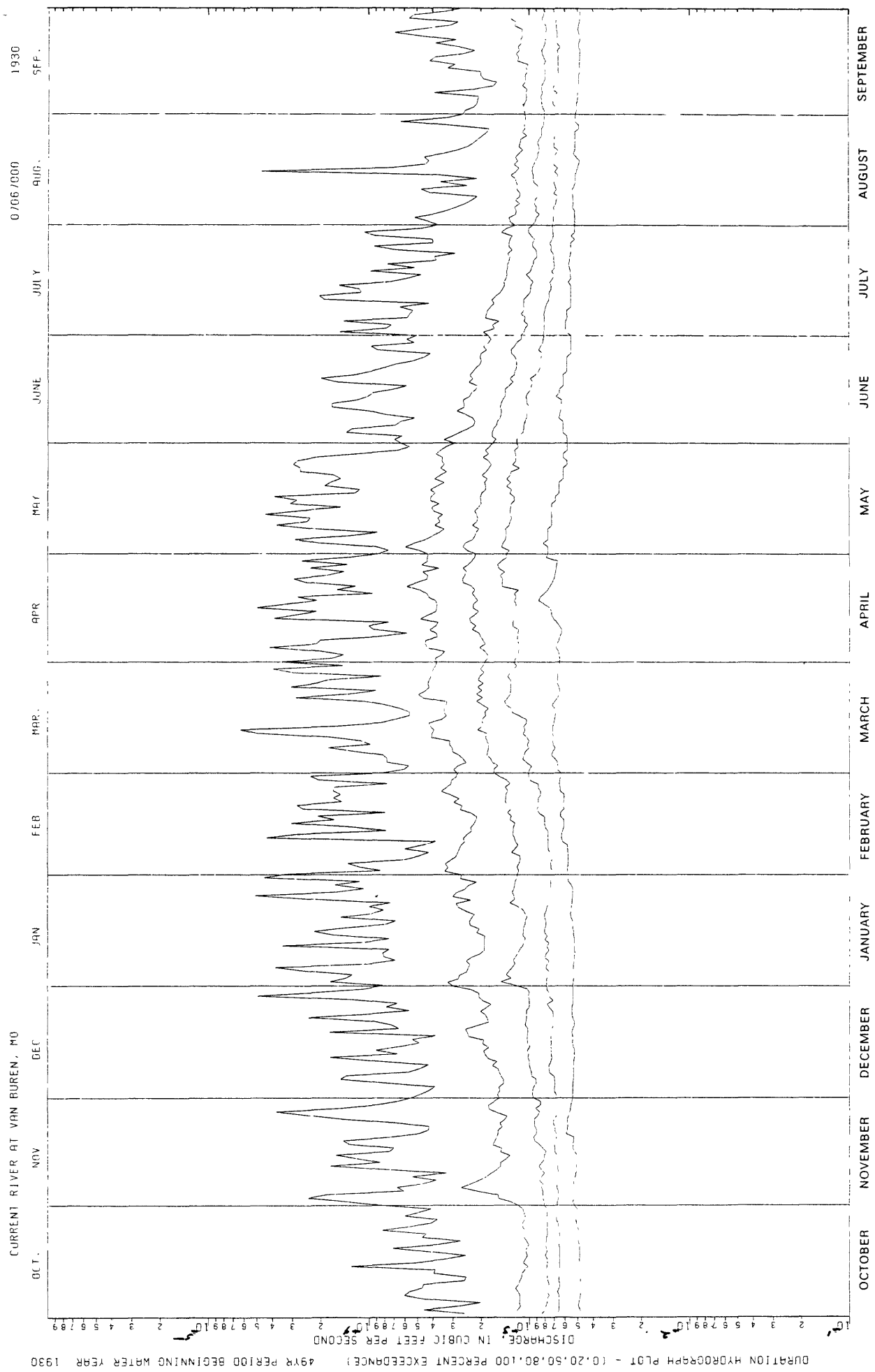
07065500

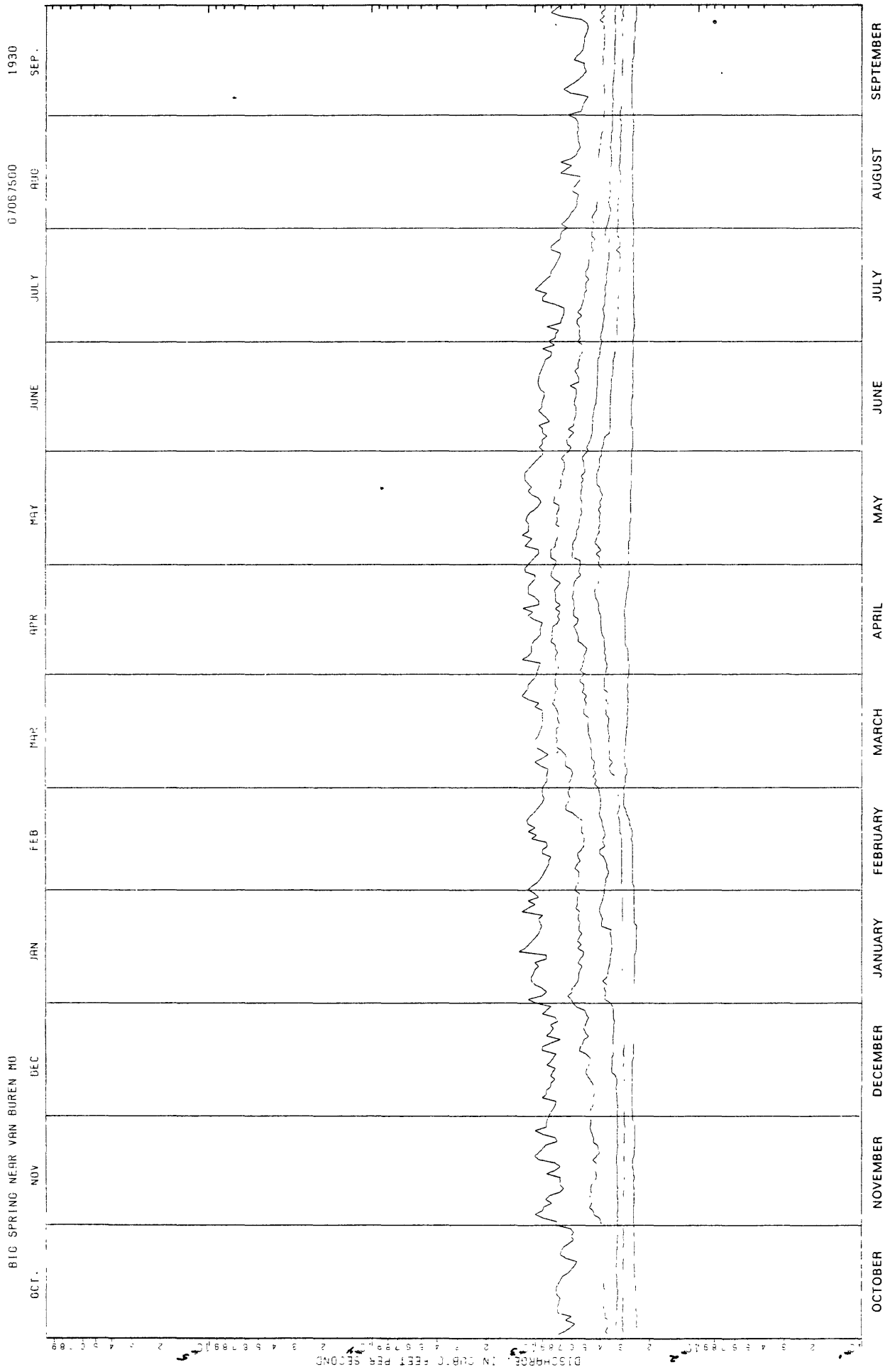
CURRENT RIVER NEAR EMINENCE, MO



DURATION HYDROGRAPH PLOT - (0, 20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1922

184



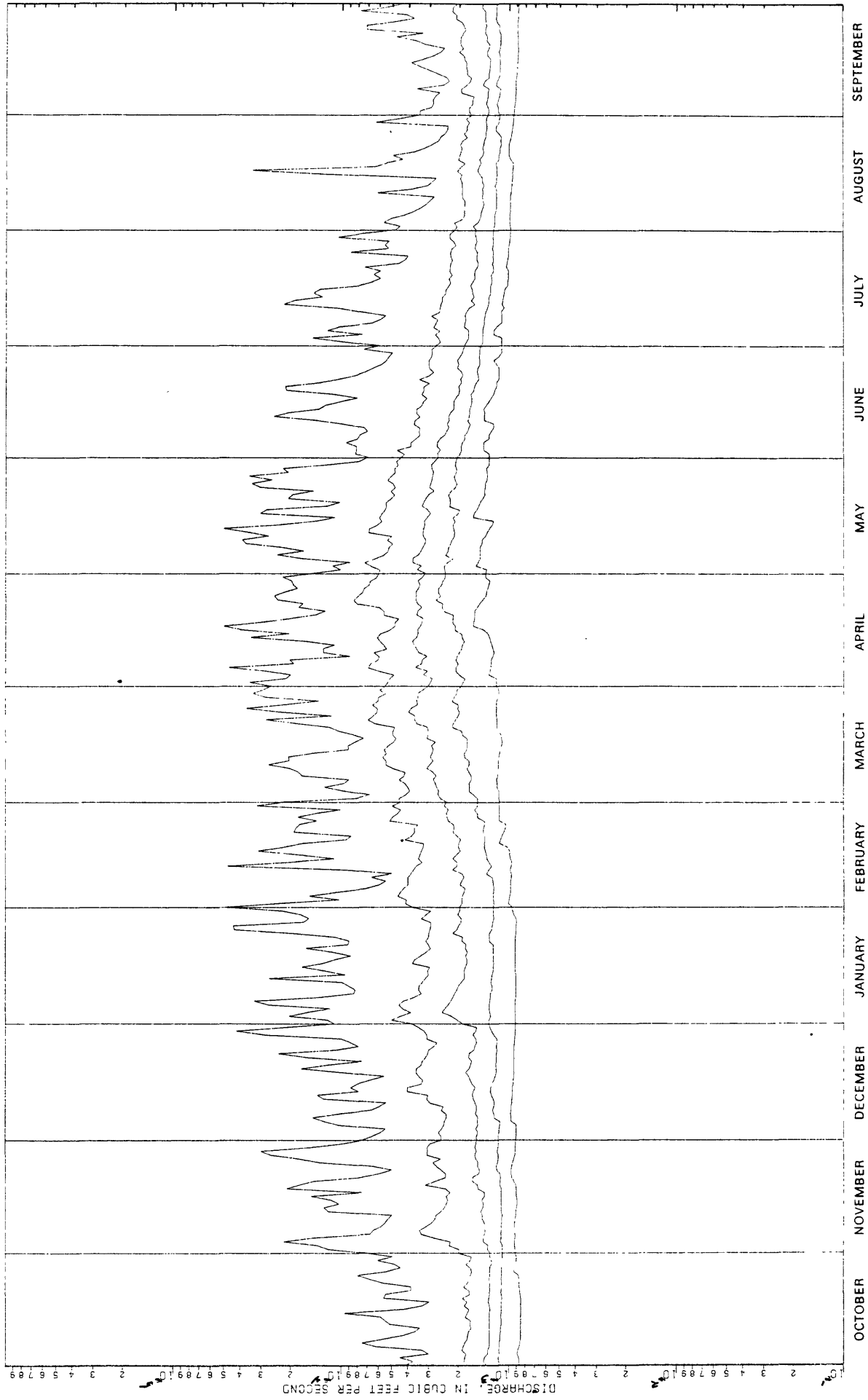


CURRENT RIVER AT DONIPHAN, MO.

07069000

1941

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941

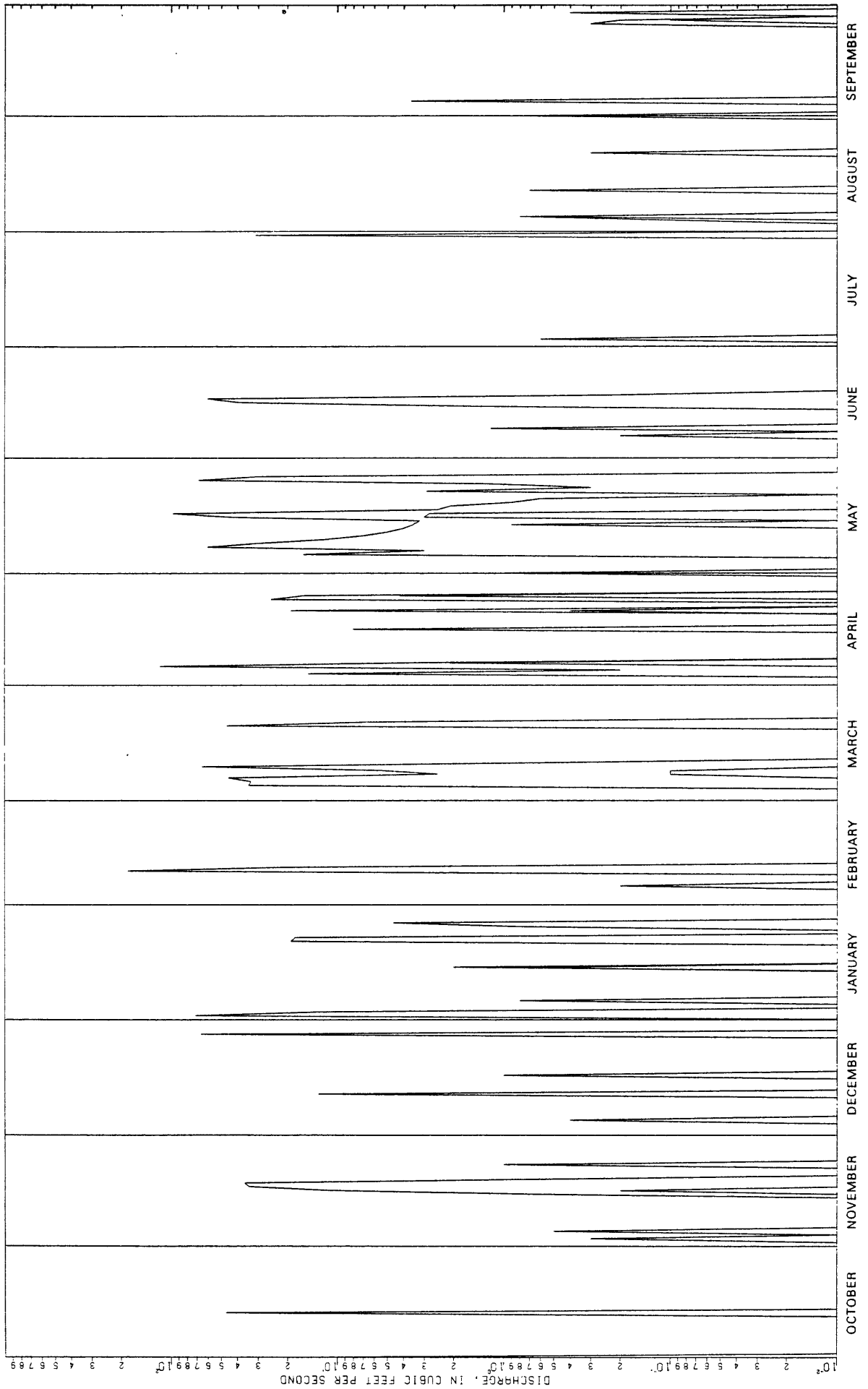


KINGS CREEK NEAR WILLOW SPRINGS MO

07070000

1959

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1959

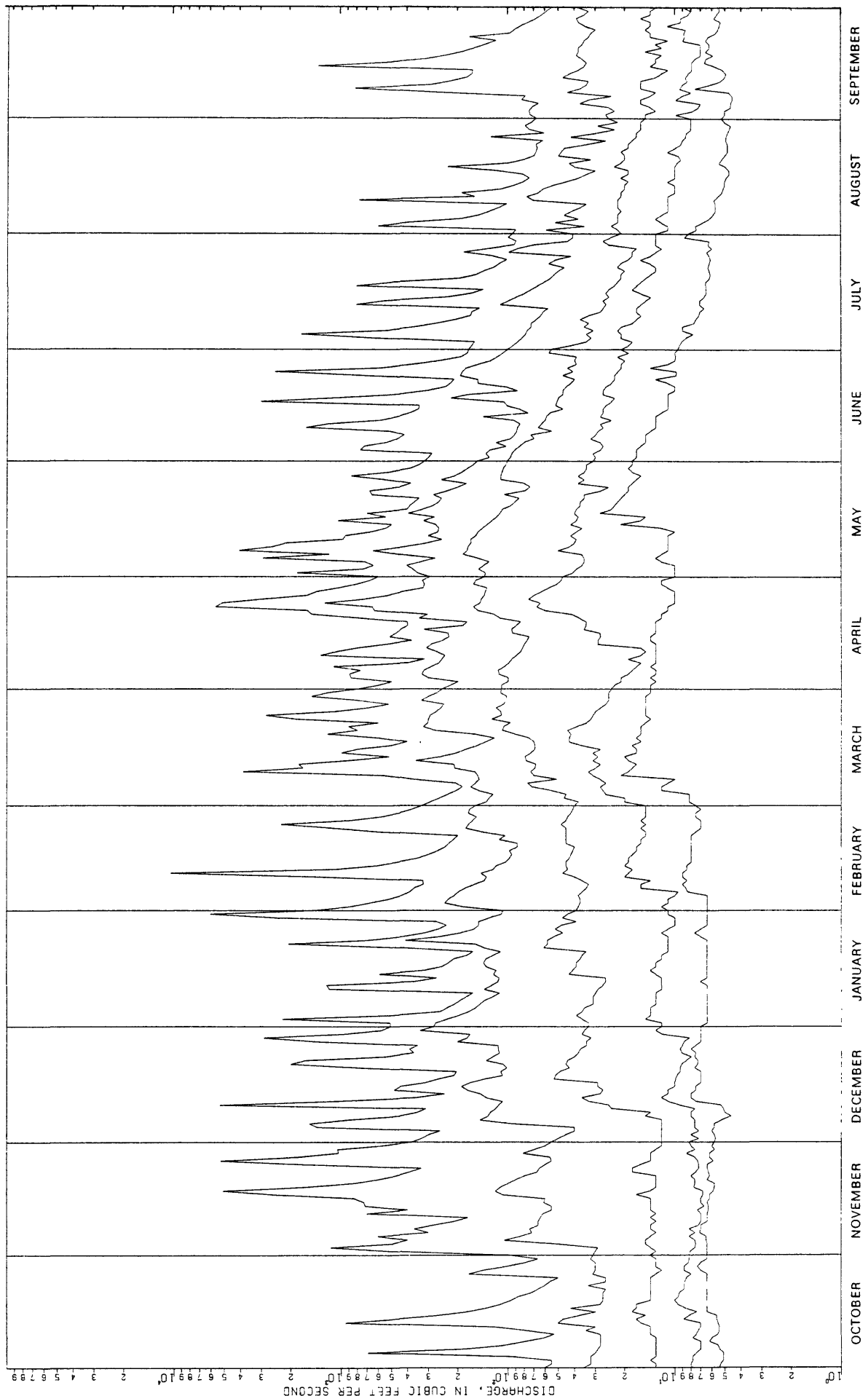


ELEVEN POINT RIVER NEAR THOMASVILLE, MO

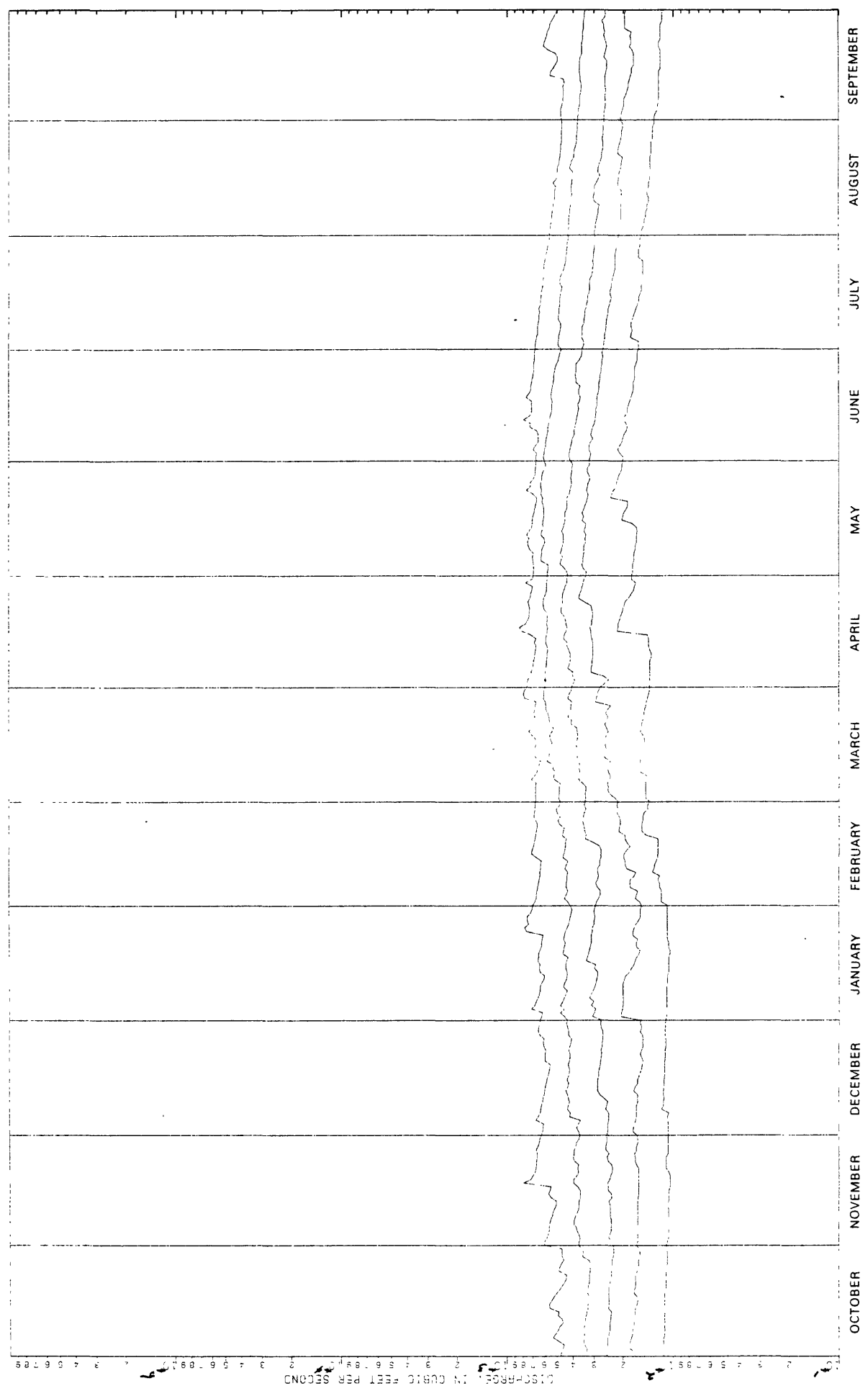
07070500

1958

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1958



GREER SPRING AT GREER NC 07071000 1941



DURATION HYDROGRAPH PLOT - 0.00-50.00-100 PERCENT EXCEEDANCE 39YR PERIOD BEGINNING WATER YEAR 1941

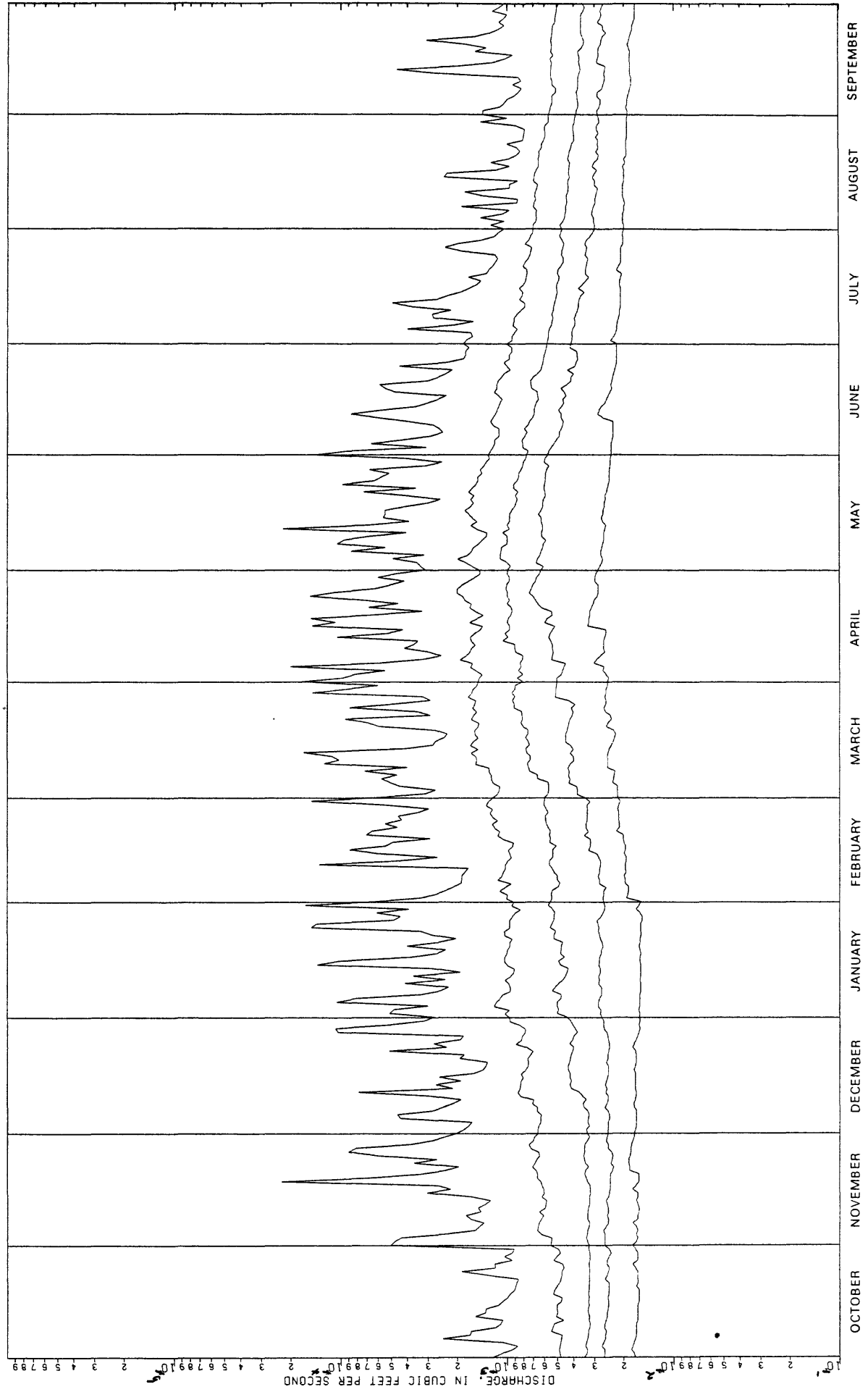
191

ELEVEN POINT RIVER NEAR BAROLEY, MO

07071500

1931

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 49YR PERIOD BEGINNING WATER YEAR 1931

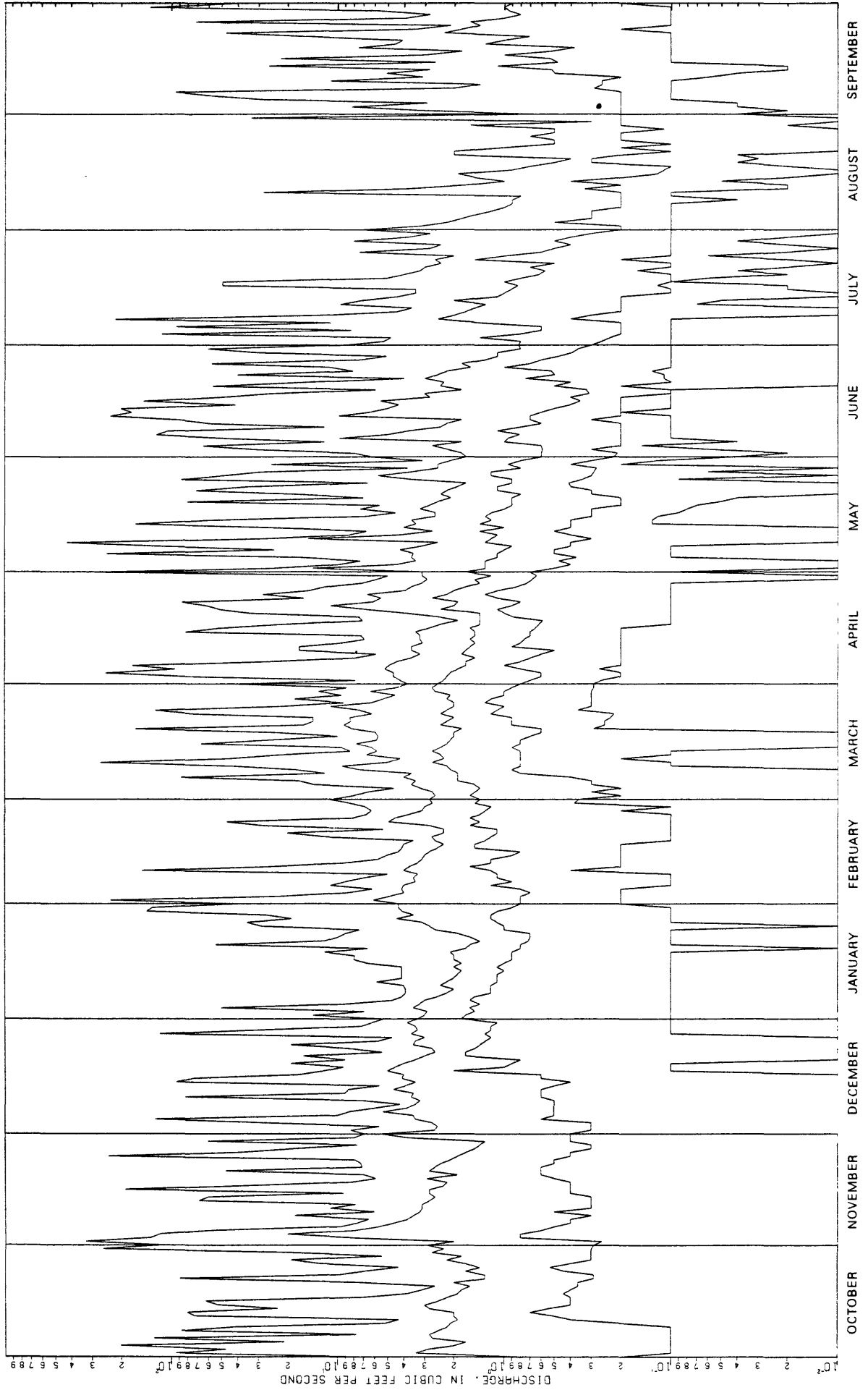


STAHL CREEK NEAR MILLER MO

07185500

1958

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 19YR PERIOD BEGINNING WATER YEAR 1958



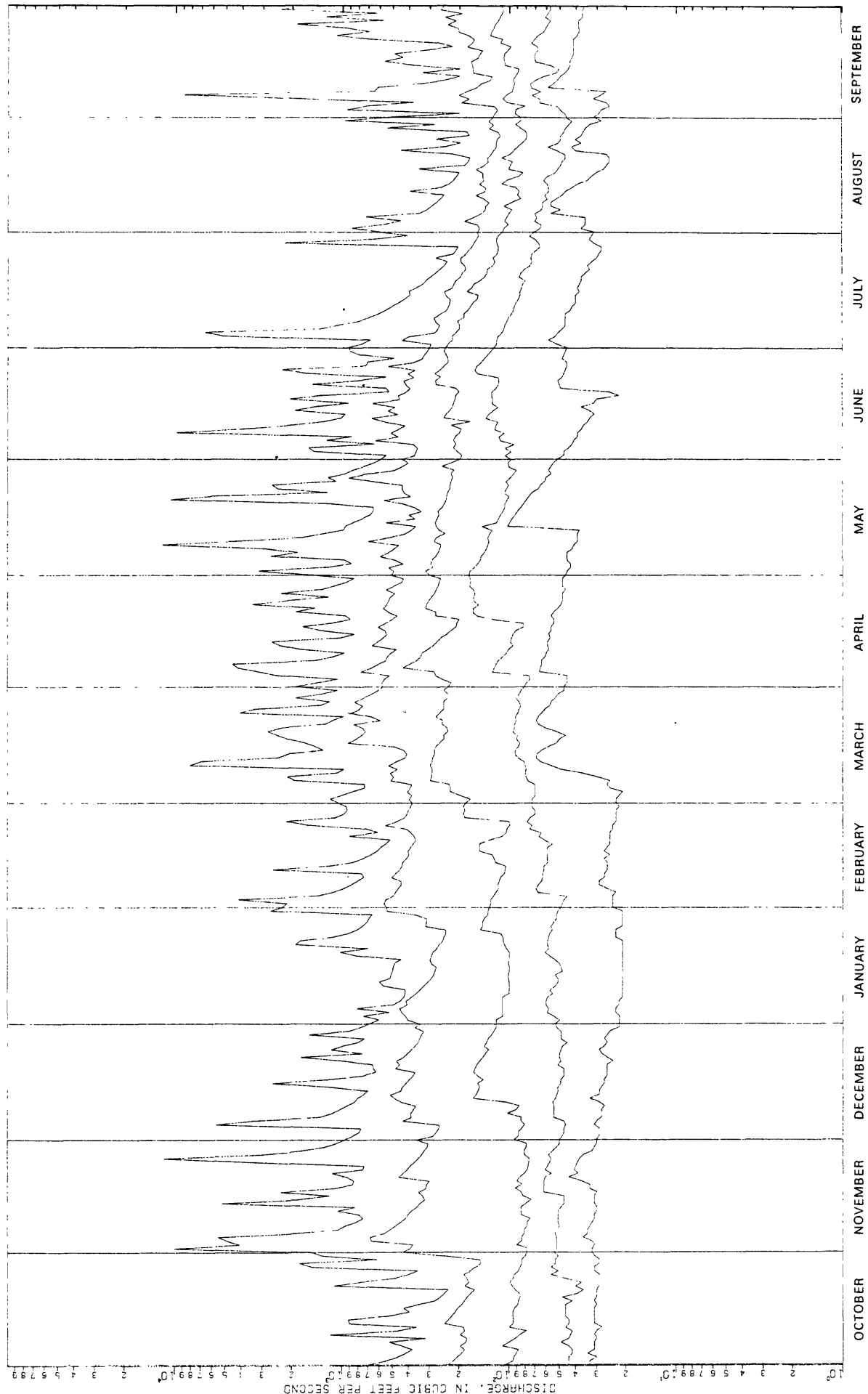
193

SPRING RIVER AT LARUSSELL, MO.

37185700

1961

DURATION HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 1974 PERIOD BEGINNING WATER YEAR 1961

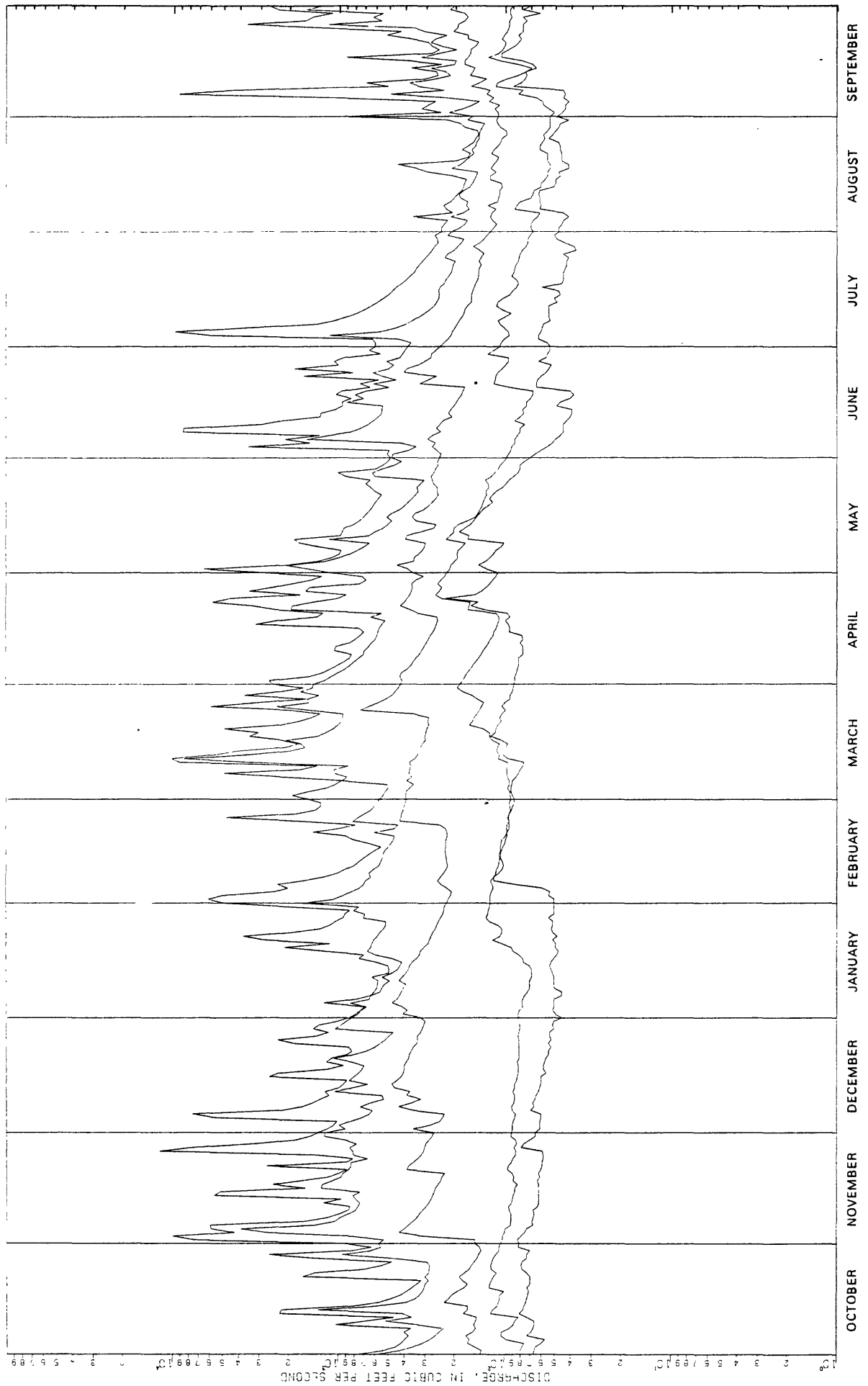


1969

9 195 165

SPRING RIVER AT CARTHAGE, MO

DURATION HYDROGRAPH PLOT - (C, 20, 50, 80, 100 PERCENT EXCEEDANCE) DAY PERIOD BEGINNING WATER YEAR 1969



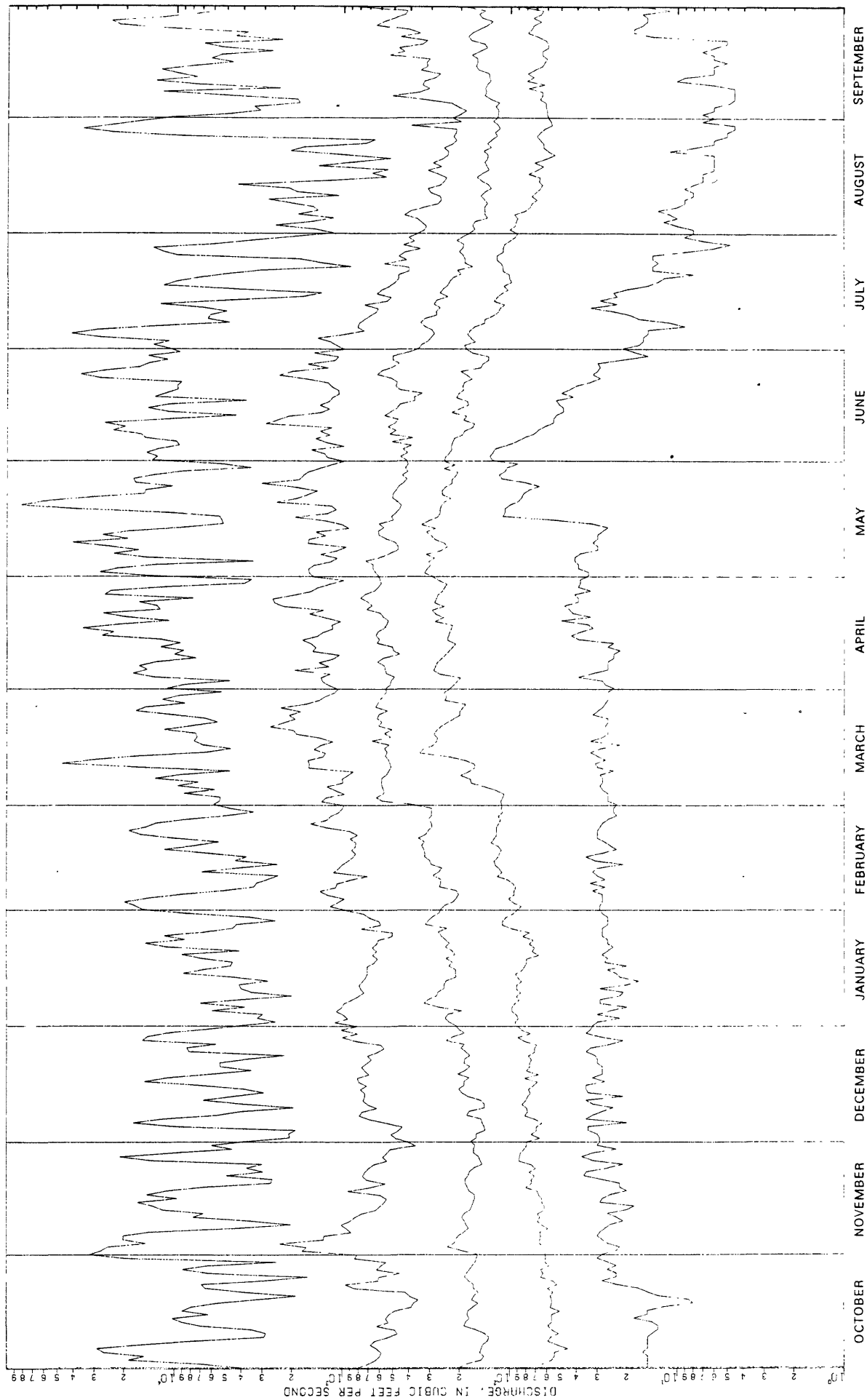
195

SPRING RIVER NEAR HACO, MO

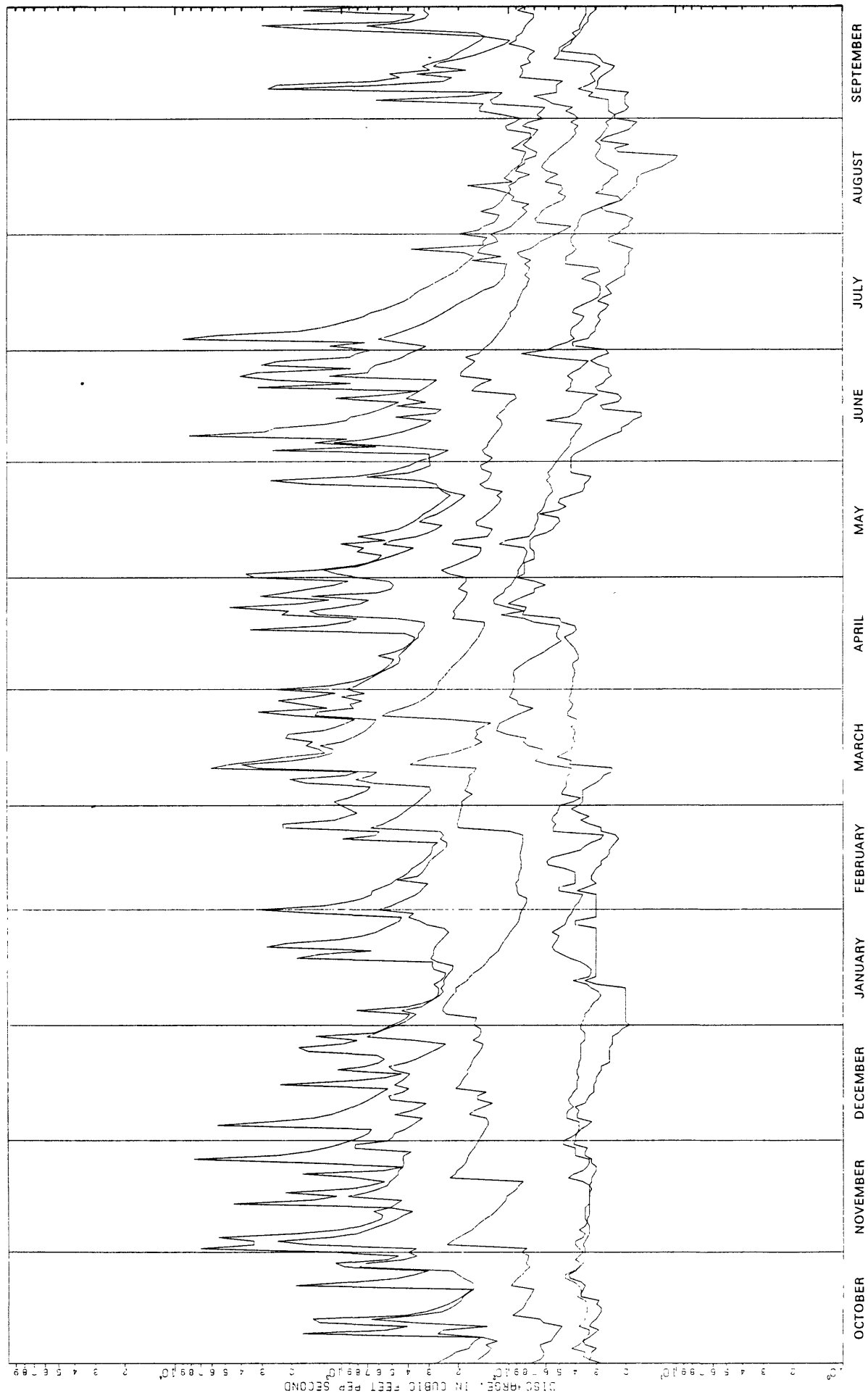
07186000

1941

CLIMATE HYDROGRAPH PLOT - (0.20, 50, 80, 100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941



CENTER CREEK NEAR CARTERVILLE, MO. 07186400 1969



DURATION HYDROGRAPH PLOT - (0.20, 50.00, 100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1969

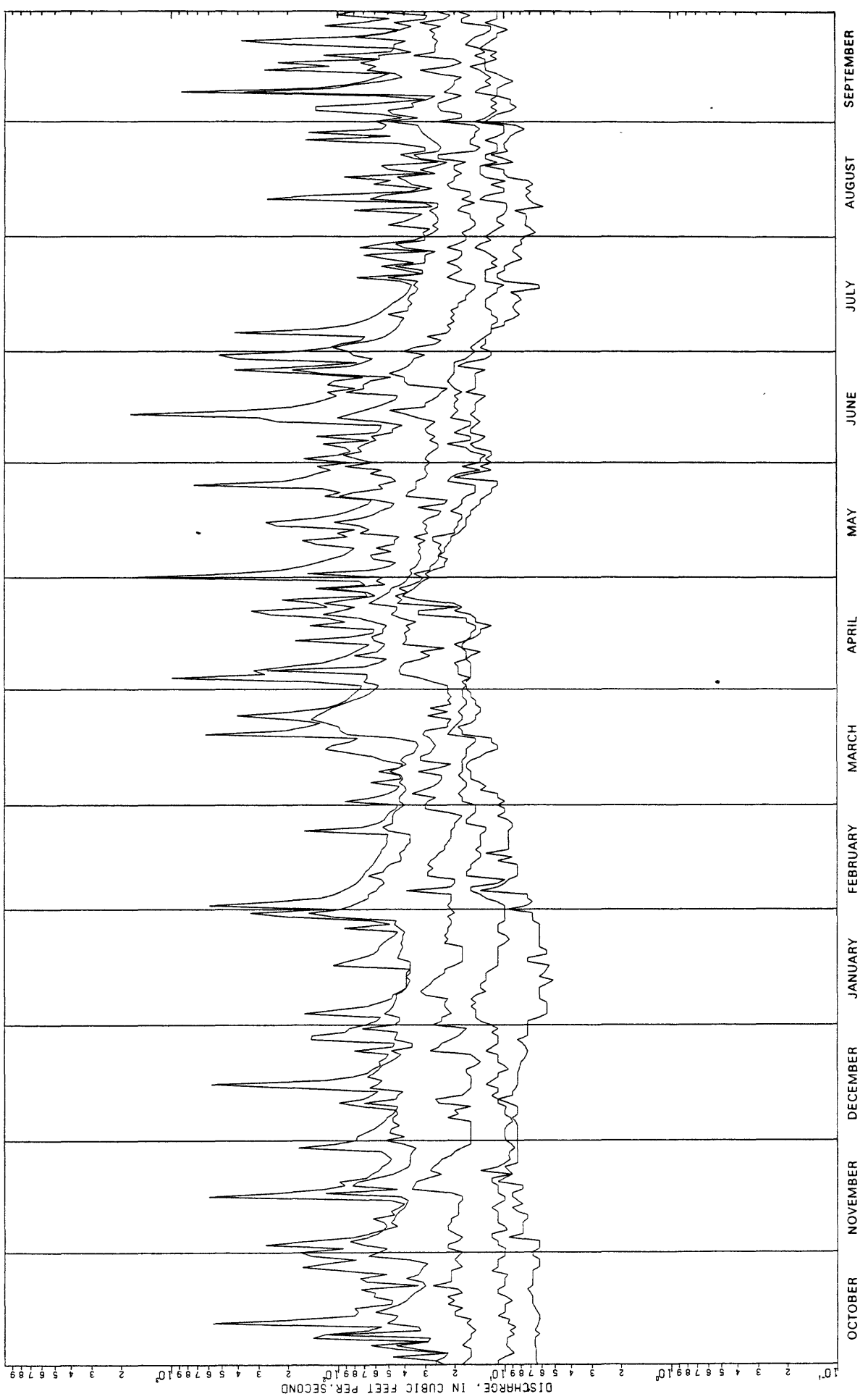
197

1964

07185600

TURKEY CREEK NEAR JOPLIN, MO

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1964

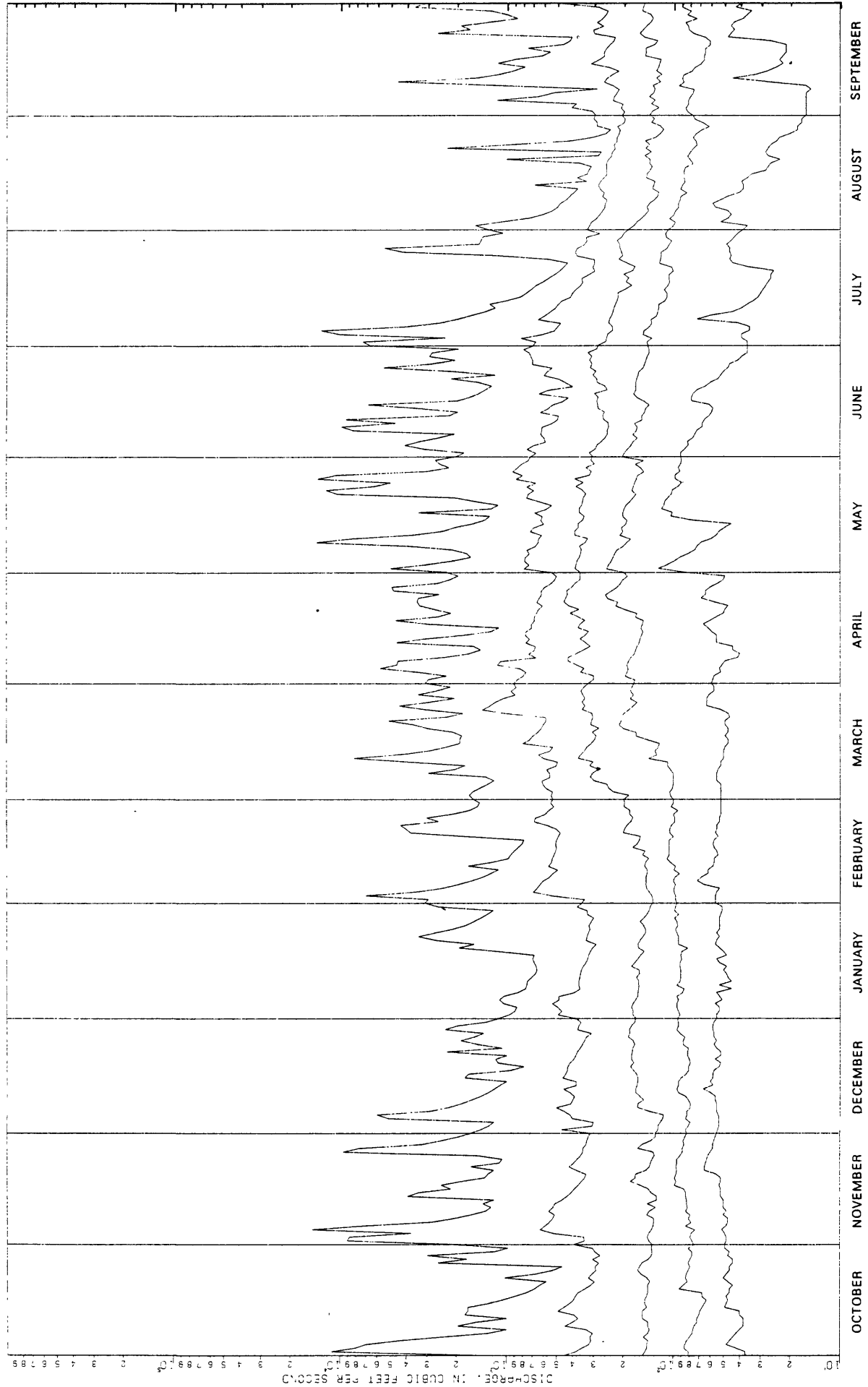


1951

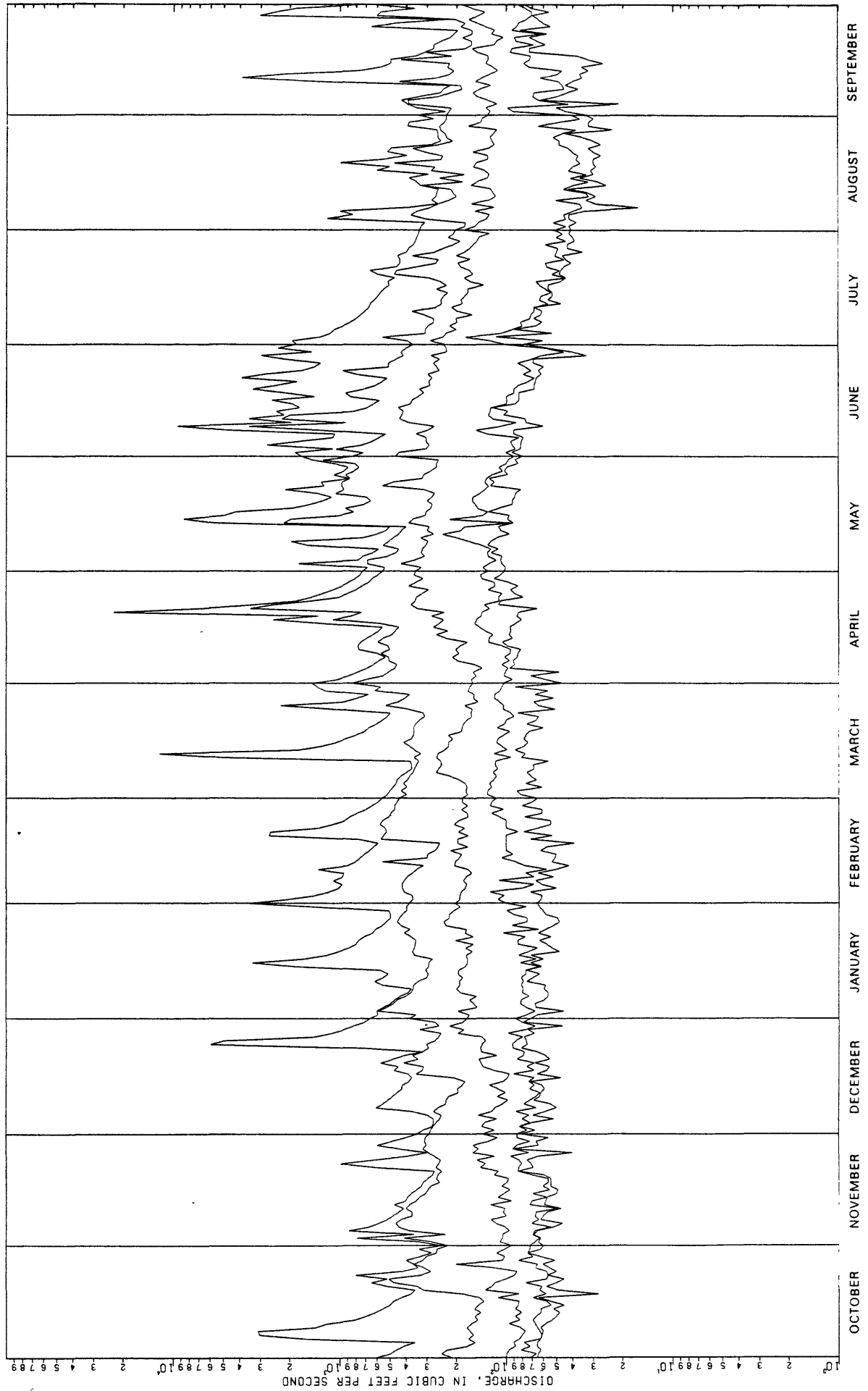
07187000

SHOAL CREEK ABOVE JOPLIN, MISSOURI

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 29 YR PERIOD BEGINNING WATER YEAR 1951



DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1933

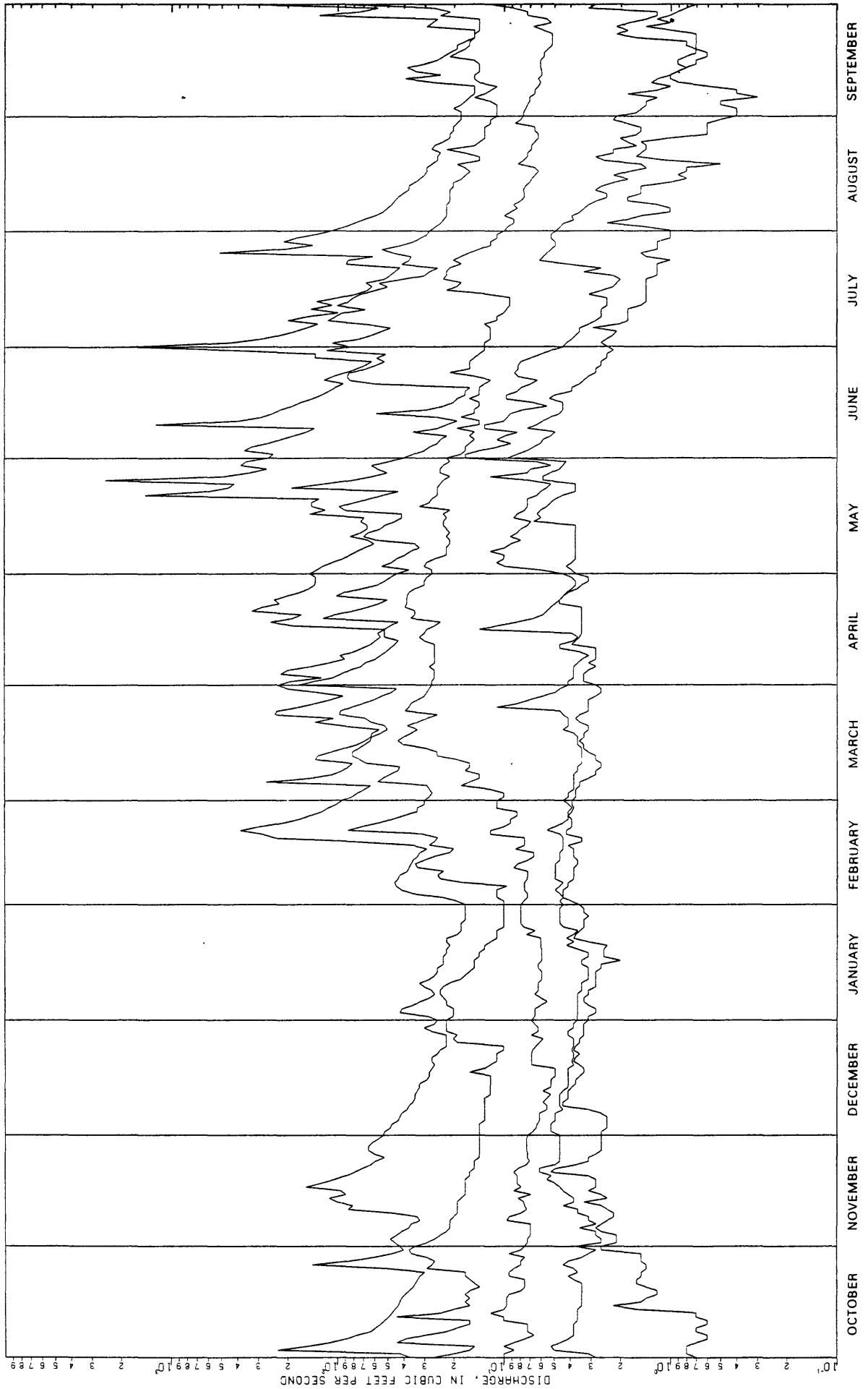


LOST CREEK AT SENECA, MO.

07186500

1951

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 09YR PERIOD BEGINNING WATER YEAR 1951



ELK RIVER NR TIFF CITY, MO

07189000

1941

DURATION HYDROGRAPH PLOT - (0.20,50,80,100 PERCENT EXCEEDANCE) 39YR PERIOD BEGINNING WATER YEAR 1941

