

THE AVERAGE DISCHARGE FROM A BASIN IS THE THEORETICAL MAXIMUM THAT IS AVAILABLE FOR USE

SUMMARY OF STREAMFLOW DATA FOR GAUGING STATIONS SHOWN ON AVERAGE DISCHARGE MAP

Table with 6 columns: Map no., Station name, Discharge area (sq. miles), Period of record (years), Discharge for period of record (cfs), and Average annual discharge (cfs). Rows list various stations like Mendota River at Keokuk, Iowa, and Missouri River at St. Louis.

\* Approximate.  
\* Minimum daily.  
\* Maximum daily.  
Note: Flow of Mississippi and Missouri Rivers is partly regulated by upstream reservoirs or navigation dams.

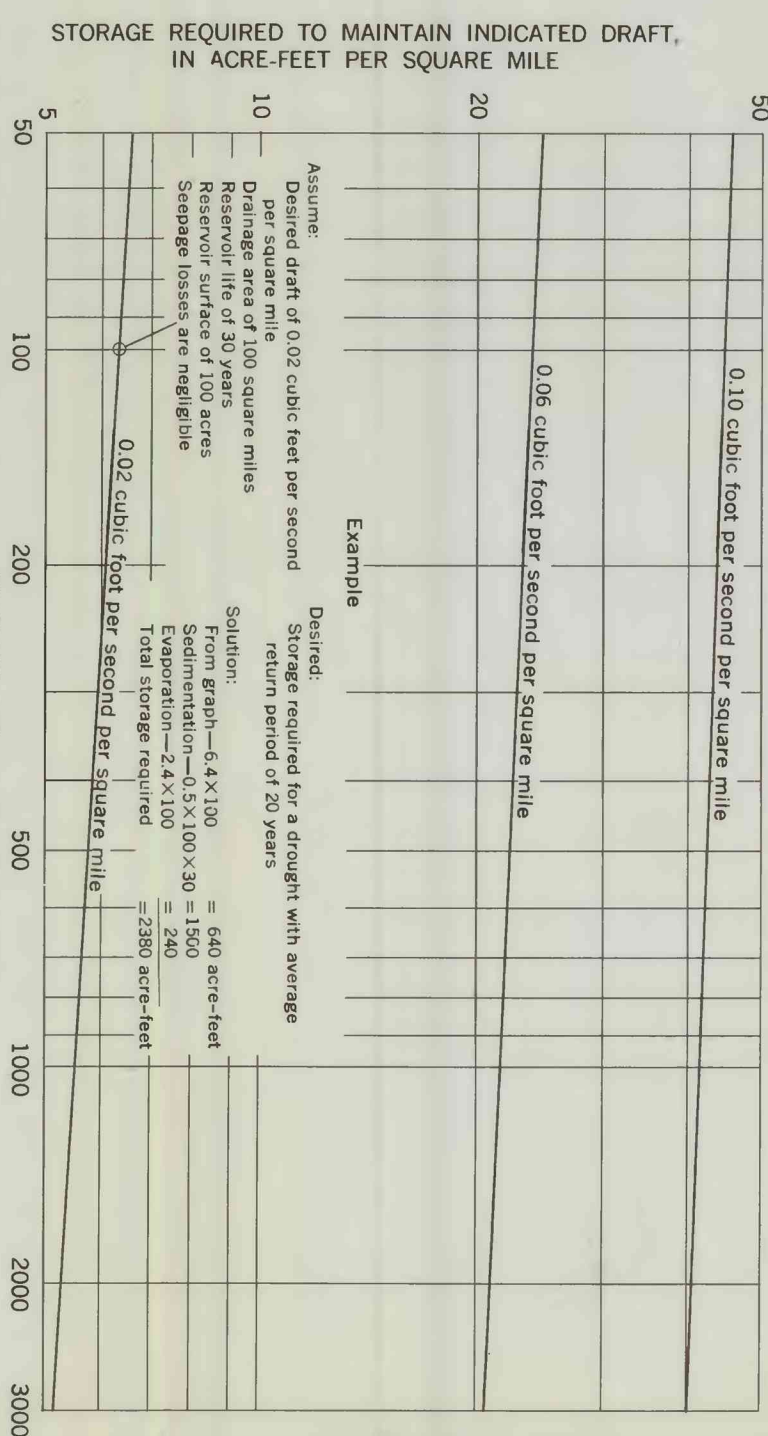
STREAMFLOW IN NORTHEASTERN MISSOURI GENERALLY CONTAINS LESS THAN 600 MILLIGRAMS PER LITER OF DISSOLVED SOLIDS

Table with 13 columns: Map number, Stream and location, Date of collection, Discharge (cubic feet per second), and various chemical constituents (Temperature, Silica, Iron, Manganese, Calcium, Magnesium, Sodium, Potassium, etc.) in milligrams per liter.

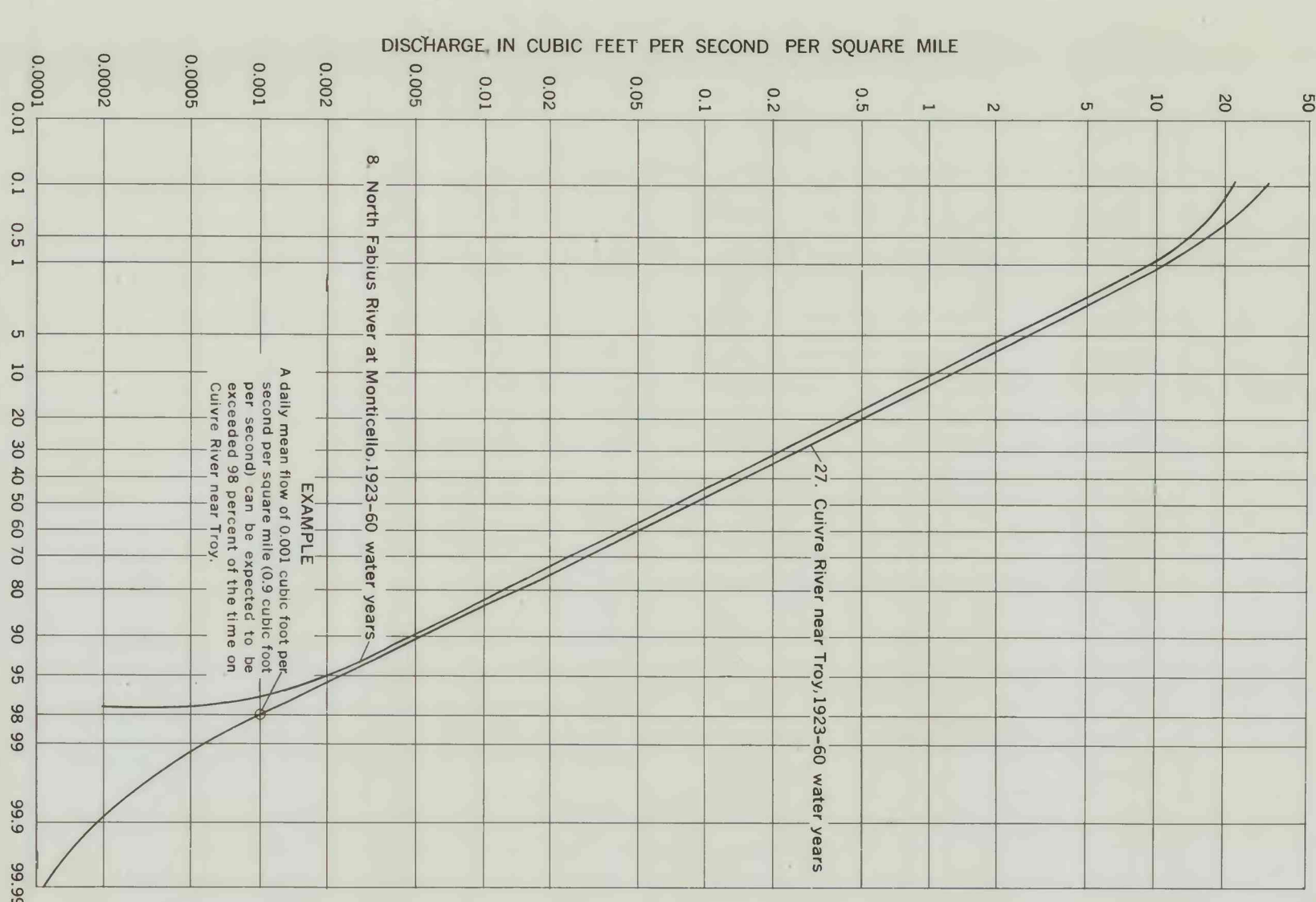
SURFACE WATER AVAILABILITY AND QUALITY



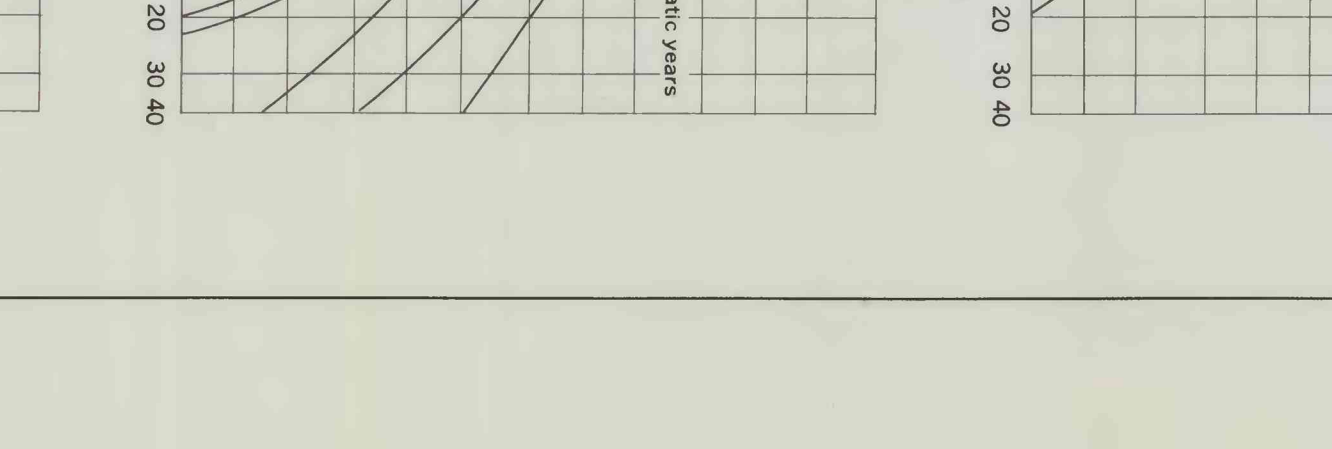
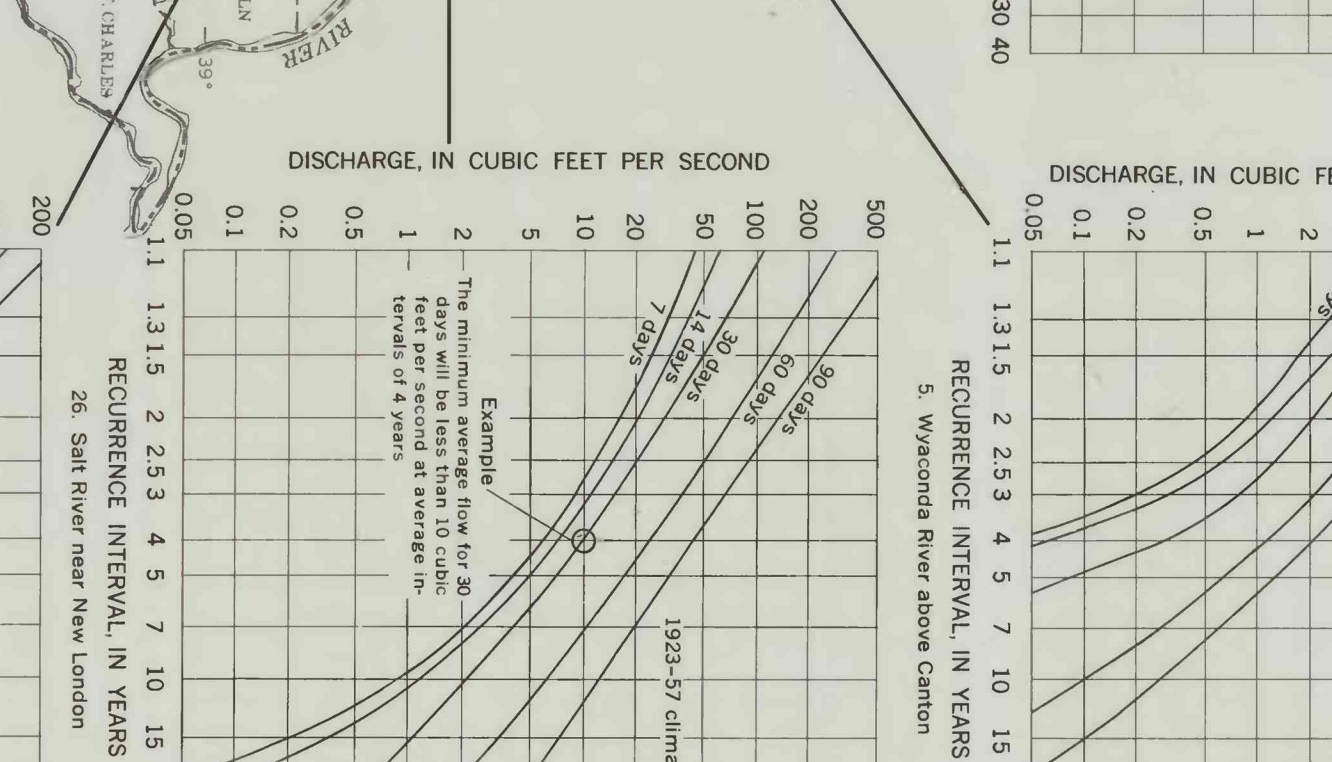
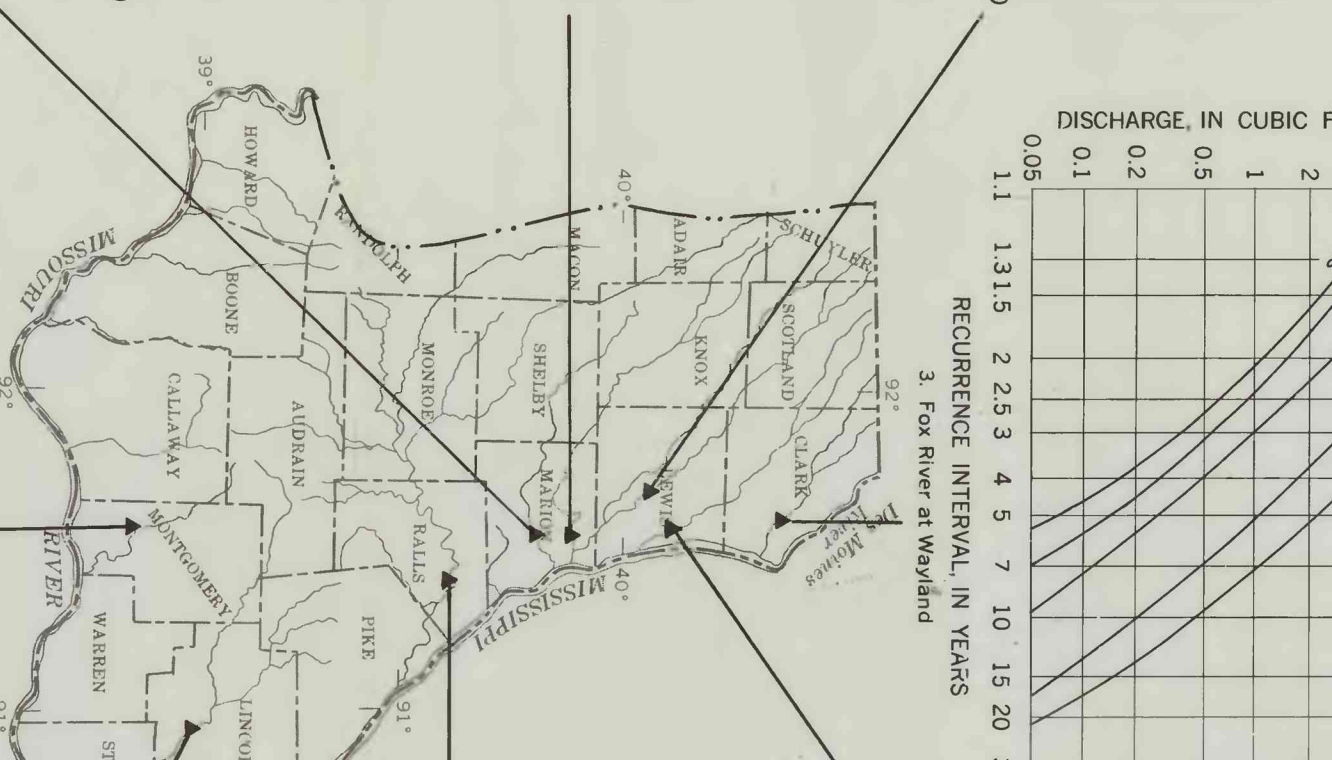
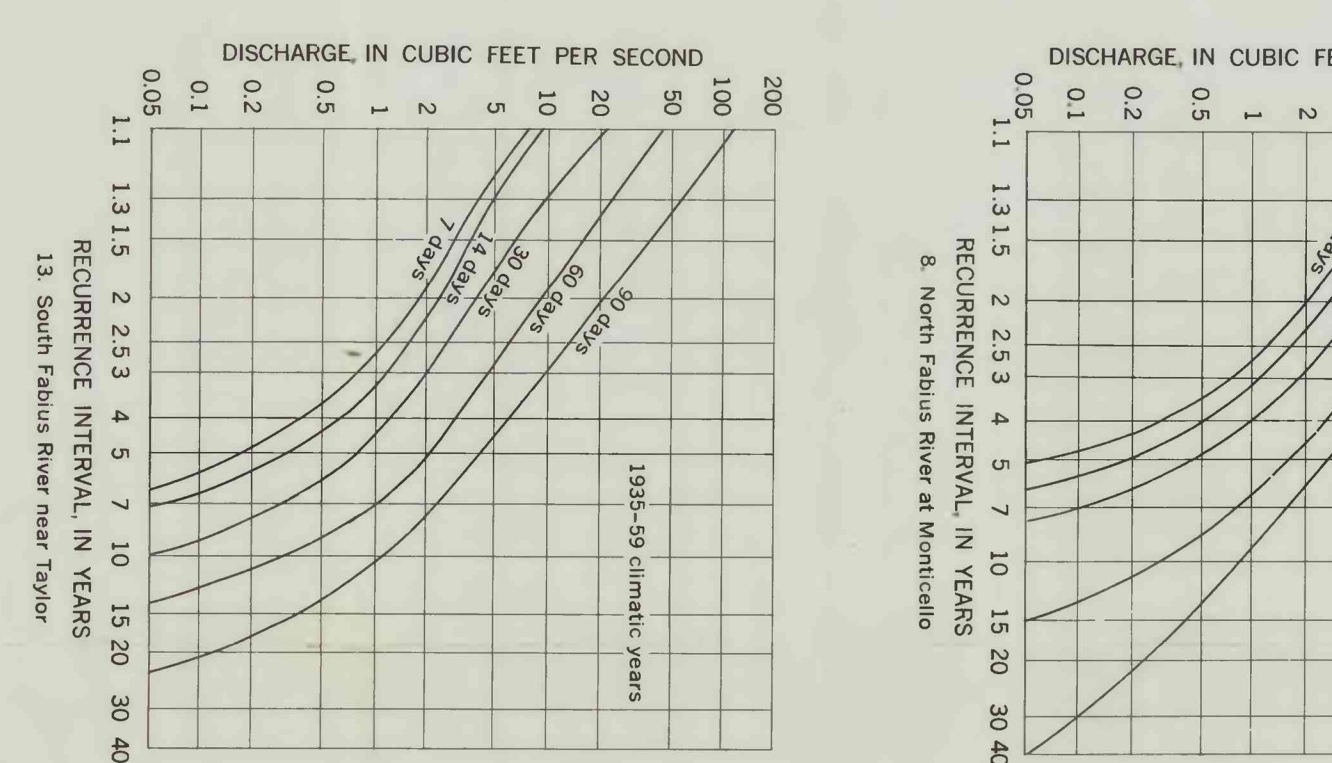
THE POSSIBILITY OF LOW STREAMFLOW CONDITIONS OCCURRING IN MONTHLY MEAN DISCHARGE OF NORTH MISSOURI IS INDICATED BY THE UNSTABILITY OF STREAMFLOW AS A PERENNIAL SOURCE OF SUPPLY. DISCHARGE WAS LOW IN JULY AND AUGUST 1933 AND IN AUGUST 1936.



REQUIREMENT FOR MAINTAINING SELECTED DRAFT IN AN UNREGULATED STREAM DURING DROUGHT WITH AN AVERAGE RETURN PERIOD OF 20 YEARS—Draft rate in surface stream is 0.50 cfs per acre-foot of storage. Sedimentation may be assumed for 10 percent of draft rate. Average lake evaporation is 1.00 cfs per acre-foot of storage.

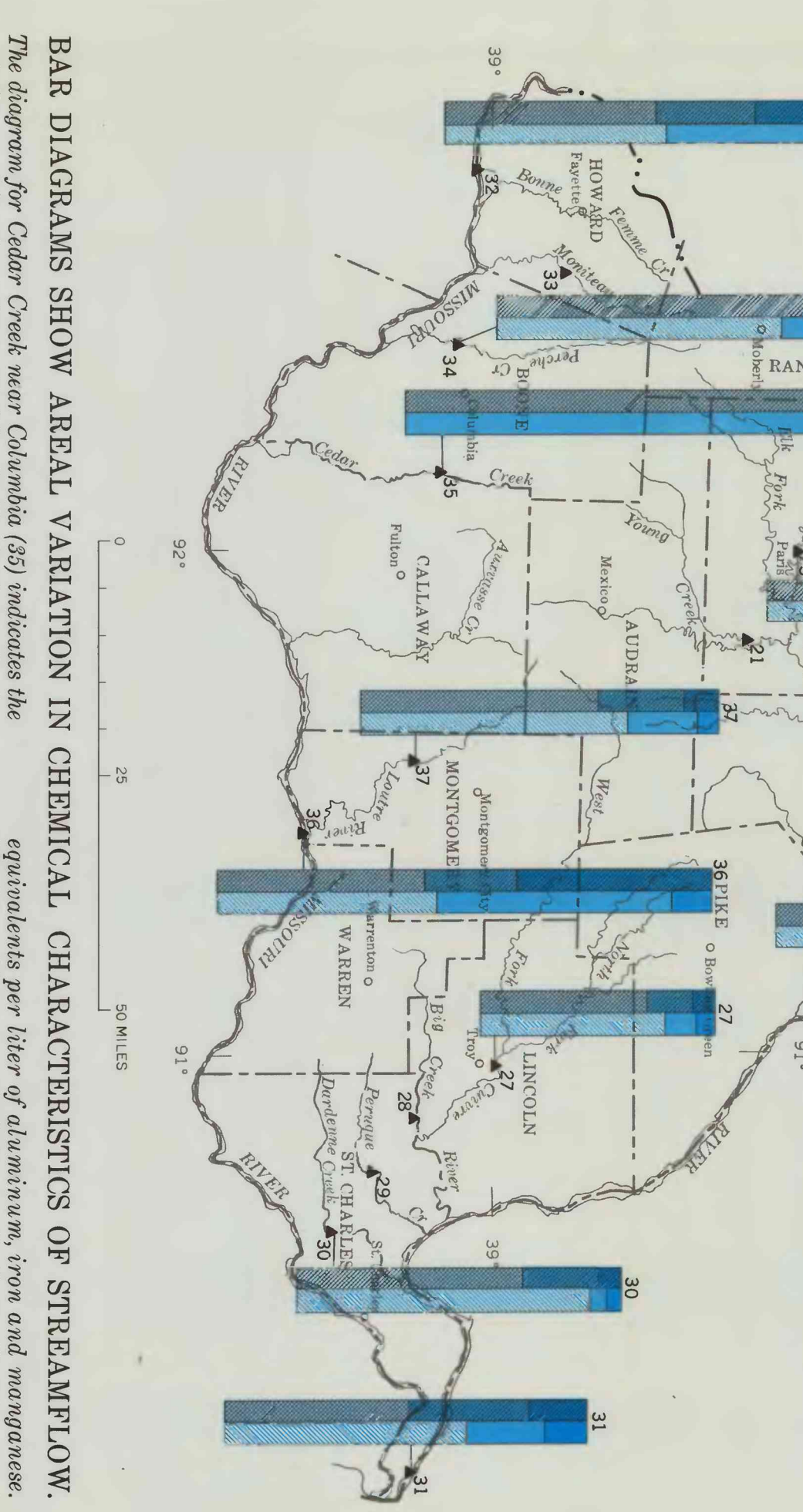
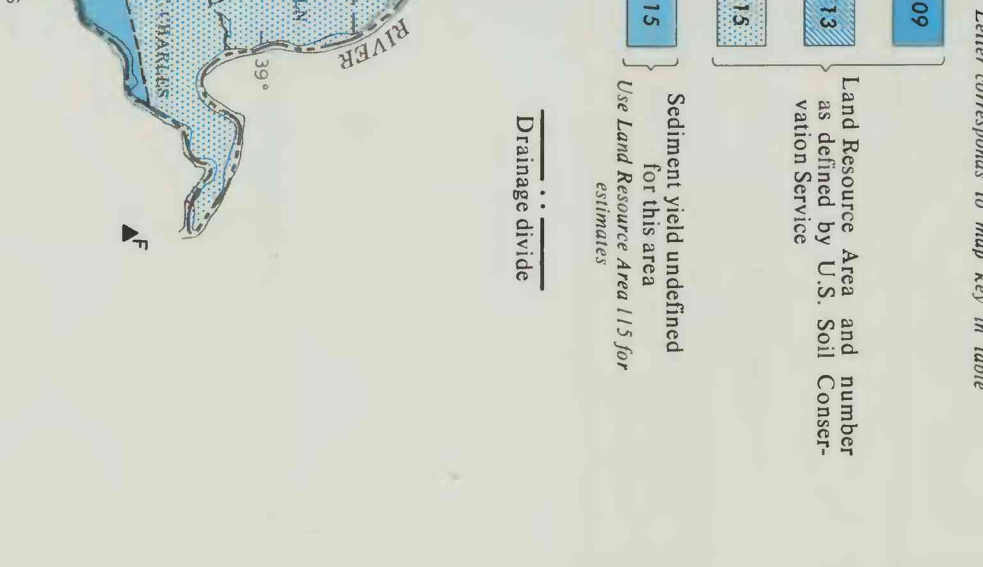
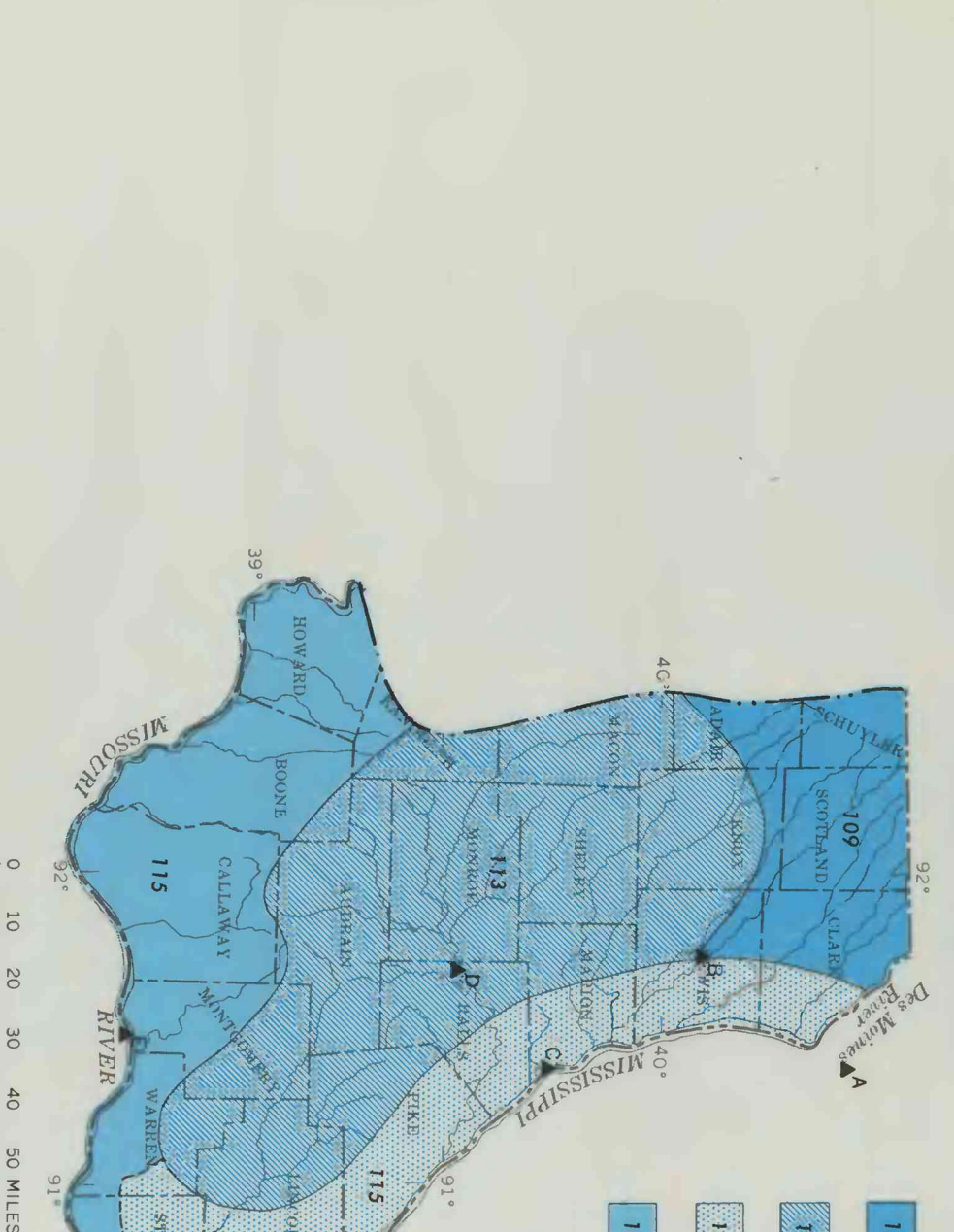


TYPICAL FLOW DURATION CURVES INDICATE SLIGHTLY BETTER STREAMED STREAMFLOW CAN BE EXPECTED ON STREAMS IN THE NORTHEASTERN MISSOURI. The product of stream discharge multiplied by the duration of flow is constant.

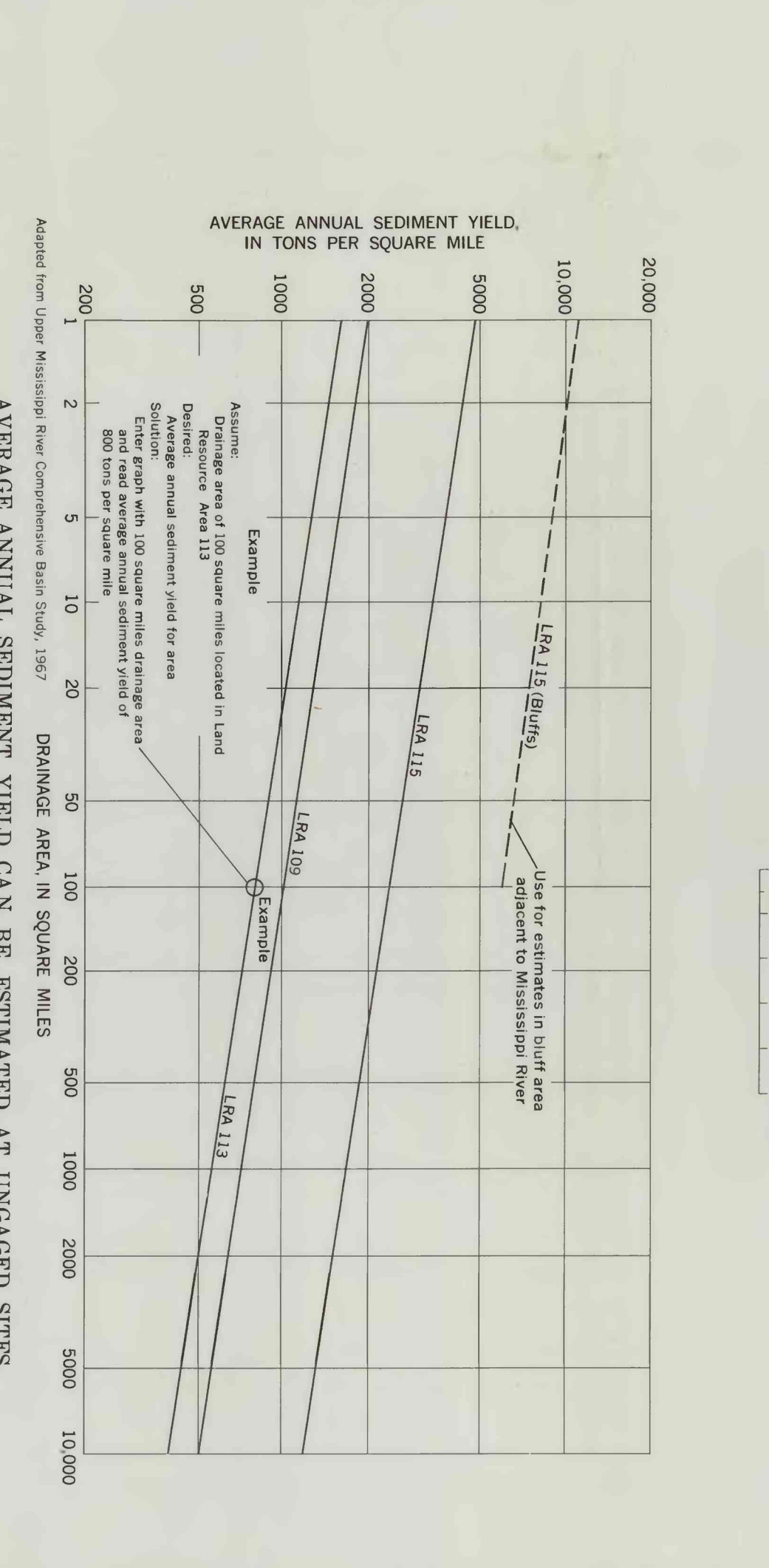


LOW-FLOW FREQUENCY CURVES INDICATE MINIMUM AVERAGE FLOW EXPECTED TO OCCUR FOR SELECTED PERIODS. No flow for several days has occurred on most streams. Number preceding station name corresponds to map number in table. A discharge rate of 0.10 cfs per acre-foot of storage is assumed.

Table with 4 columns: Station, Discharge area (sq. miles), Sediment yield (tons per square mile per year), and Station number. Rows list stations like Mendota River at Keokuk, Iowa, and Missouri River at St. Louis.



BAR DIAGRAMS SHOW AREAL VARIATION IN CHEMICAL CHARACTERISTICS OF STREAMFLOW. The diagram for Cedar Creek near Columbia (31) indicates the influence of local mining activities in the drainage basin.



WATER RESOURCES OF NORTHEASTERN MISSOURI

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