

**LOW-FLOW-FREQUENCY CHARACTERISTICS FOR CONTINUOUS-RECORD
STREAMFLOW STATIONS IN MINNESOTA**

by A. D. Arntson and D. L. Lorenz

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CONTENTS

	Page
Abstract.....	1
Introduction	1
Background.....	1
Purpose and scope.....	4
Low-flow characteristics.....	4
Summary.....	9
Selected references.....	11
Index of streamflow stations, annual- and seasonal-probability plots.....	12

ILLUSTRATION

Figure 1. Map showing location of continuous-record streamflow stations.....	2
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TABLES

Table 1. Continuous-record streamflow stations with 10 or more years or record used in low-flow analysis.....	5
2. Continuous-record streamflow stations where partial plots of annual and (or) seasonal probabilities are shown in Appendices A or B.....	10

APPENDIX

Appendix A. Graphs of annual low-flow probability plots.....	A-1
Appendix B. Graphs of seasonal low-flow probability plots.....	B-1

CONVERSION FACTORS AND ABBREVIATIONS

Readers who prefer to use metric (International System) units rather than inch-pound units can make conversions using the following factors:

<u>Multiply Inch-Pound Unit</u>	<u>by</u>	<u>To Obtain Metric Unit</u>
foot (ft)	0.3048	meter (m)
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)
gallon per minute (gal/min)	0.0630	liter per second (L/s)
mile (mi)	1.609	kilometer (km)
square mile (mi ²)	2.59	square kilometer (km ²)

EXPLANATION OF TERMS

The technical terms used in this report, including units of measurement and hydrologic and statistical terms, are explained in the following paragraphs. A more complete list of definitions is given by Langbein and Iseri (1960); some of the following are taken wholly or partially from that report. Others were taken or modified from Lindskov (1977).

Climatic year--as used in this report, begins on April 1 and ends on March 31 of the following year. The climatic year is used to ensure that a late summer low-flow period lies entirely in one year rather than being broken up into two nonrepresentative parts.

Frequency and recurrence interval--are terms commonly used interchangeably in referring to extremes in streamflow. Frequency of flow is an average of the number of flows that will at least equal in severity a given value for a certain time period. Conversely, recurrence interval is the average time, in years, between such flows. The year a drought or flood of a given magnitude will occur cannot be predicted, but the probable number of such events during a reasonably long period of time may be estimated.

For example, a low-flow discharge of 3 ft³/s having a recurrence interval of 5 years indicates that a discharge lower than 3 ft³/s will occur as an annual minimum at intervals averaging 5 years. Phrases such as "10-year discharge" are commonly used in discussing extremes having the indicated recurrence interval, in years. Similar terminology is used in this report. For example, "7-day 10-year low flow" refers to the lowest mean discharge for 7 consecutive days having a recurrence interval of 10 years.

Low-flow-probability curve--is a graph showing the magnitude and probability of minimum flows for a given period. The probability is of a discharge being less than that shown by the magnitude scale.

Regulation--is the artificial manipulation of the flow of a stream.

Water year--is the 12-month period, October 1 through September 30, used in U.S. Geological Survey reports dealing with surface-water data. The water year is designated by the calendar year in which it ends. Thus, the year ending September 30, 1983, is called the 1983 water year.

LOW-FLOW-FREQUENCY CHARACTERISTICS FOR CONTINUOUS-RECORD STREAMFLOW STATIONS IN MINNESOTA

By A. D. Arntson and D. L. Lorenz

ABSTRACT

Annual and summer (May 1 - September 30) low-flow-frequency curves are presented for 175 continuous-record streamflow stations in Minnesota. The 1-, 7-, and 30-day low-flow discharges at selected recurrence intervals obtained from these curves are listed. The curves were developed for all stations with 10 or more years of continuous record.

INTRODUCTION

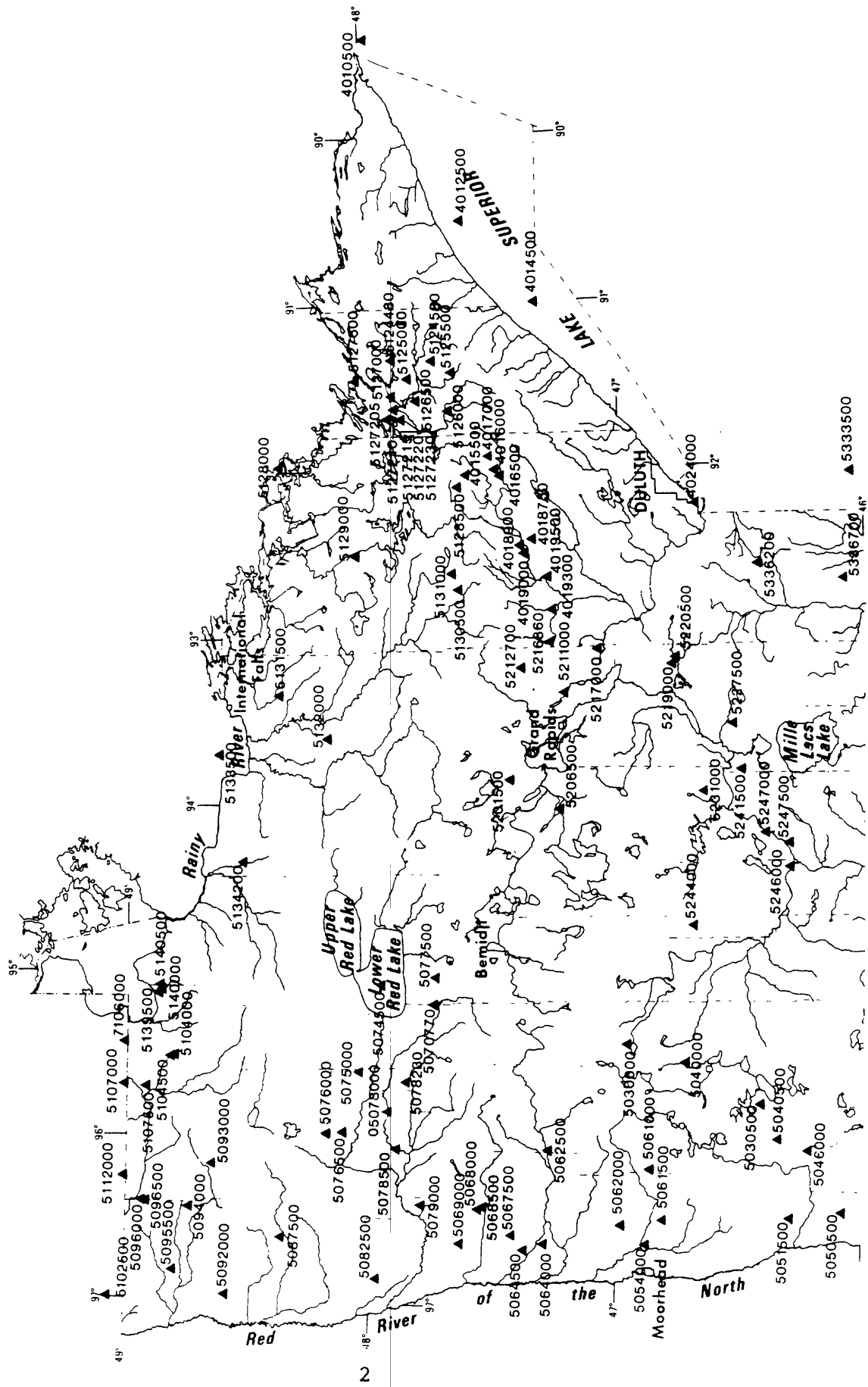
Background

Each year more and more demand is placed on Minnesota's surface-water natural resources. Information about low-flow characteristics of rivers and streams is needed for water-supply planning for municipalities, industries, irrigation, and water dilution.

Low-flow characteristics can be defined for continuous-record streamflow stations using low-flow probability curves derived from annual minimum flows, and can be estimated for partial-record stations, where little or no discharge information is available, using a correlation method between a partial-record and a continuous-record streamflow station. (Riggs, 1972)

Rigg's method establishes a relation between a partial-record station and a index station, a continuous-record streamflow station that has similar basin characteristics and that is located near the partial-record station. The relation is based on the correlation of low-flow discharge measurements at the partial-record station and concurrent daily flows at the index station. Low-flow characteristics can be estimated for the partial-record station by using the index station low-flow frequency characteristics and the established relation.

Lindskov (1977) compiled low-flow frequency characteristics for 161 continuous-record streamflow stations in Minnesota having eight or more years of record through the 1975 water year. Warne (1978) used Riggs' method and Lindskov's low-flow frequency determinations to estimate the seven-day, two-year and the seven-day, ten-year low-flow discharges at about 300 partial-record stations in Minnesota.



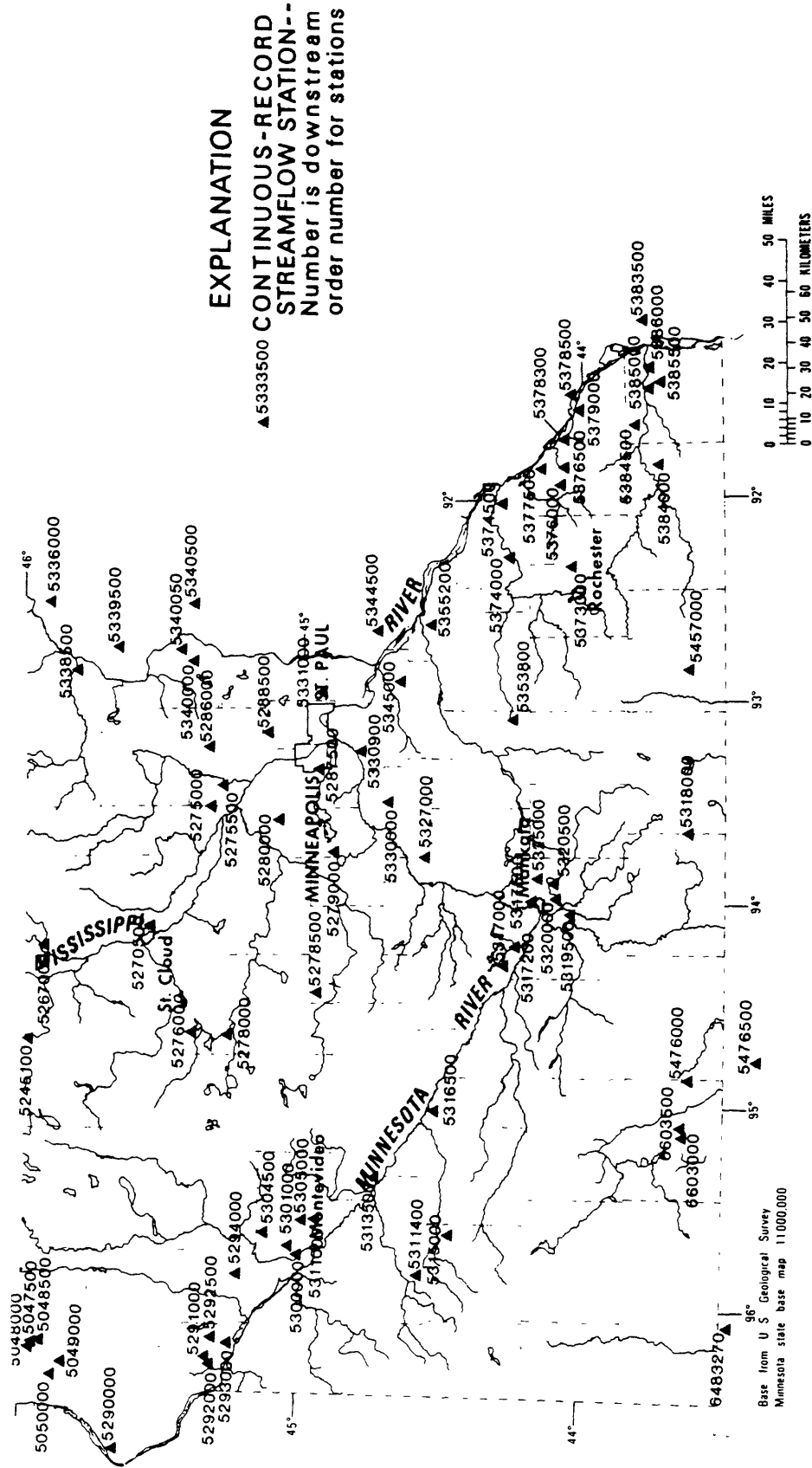


Figure 1.--Location of continuous-record streamflow stations

Purpose and Scope

The purpose of this report is to help define the surface-water-yield characteristics of Minnesota streams by summarizing low-flow frequency characteristics for continuous-record streamflow stations in Minnesota.

Low-flow frequency characteristics were determined for 175 continuous-record streamflow stations located in and adjacent to Minnesota which has ten or more years of record through the 1983 water year. Low-flow probability curves were also generated and are presented in the appendices.

This report supersedes a similar report by Linskov (1977). With the addition of eight years of record, low-flow frequency characteristics were updated for many of the continuous-record streamflow stations and new stations were added to the compilation.

LOW-FLOW CHARACTERISTICS

The source of daily flow information for 228 discontinued and current continuous-record streamflow stations was the Water-Data Storage and Retrieval System (WATSTORE; Hutchison, 1975), which is maintained by the U.S. Geological Survey. All available streamflow records from 1892 through the 1983 water year were considered in the analyses.

Low flow is defined as the lowest average flow for some consecutive-day period. The 1-, 7-, and 30-day low-flow series were computed from the record of each station for each climatic and seasonal period. Frequency characteristics for the climatic year (April - March) and seasonal (May - September) data were determined using a Log-Pearson type III frequency distribution computer program available in WATSTORE. Frequency curves were prepared for this report only for stations having 10 or more years of continuous record. Another method of defining frequency characteristics is preferable for the 53 stations with less than 10 years of record (Riggs, 1972). Results for the remaining 175 stations, shown in figure 1, are presented in this report.

Table 1 contains a description of each station in downstream order according to the U.S. Geological Survey's station-identification-numbering system. The station name, latitude, longitude, hydrologic-unit number, drainage area, period of record, and number of water years with complete record (i.e., no missing days) also are included in table 1.

The annual and seasonal low-flow-frequency curves for 175 stations listed in table 1 are plotted in the appendices. These are Log Pearson type III frequency curves fitted to the station data. The positions of the data points were computed by the Hazen formula

$$P_M = (M-0.5)/N$$

where P_M is the plotting position for the M th point, M is order number when the data are sorted from the lowest to highest, and N is the number of years of record.

[s - only seasonal curves were plotted, n - neither annual nor seasonal were plotted]

Station I.d.	Station name	Lat- tude	Longi- tude	Hydrologic unit	Area	Period of record	Years of record
04010500	Pigeon River at Middle Falls nr Grand Portage	480044	0893658	04010101	600	1921-83	60
04012500	Poplar River at Lutsen	473823	0904231	04010101	112	1913-61	32
04014500	Baptism River near Beaver Bay	472015	0911200	04010101	140	1928-83	51
04015500	Second Creek near Aurora	473125	0921135	04010201	29.0	1955-80	25
04016000	Partridge River near Aurora	473102	0921124	04010201	161	1942-82	40
04016500	St. Louis River near Aurora	472930	0921420	04010201	290	1942-83	41
04017000	Embarras River at Embarras	473924	0921151	04010201	88.3	1942-65	22
04018750	St. Louis River at Forbes	472148	0923556	04010201	713	1964-83	19
04019000	East Two River near Iron Junction	472404	0923952	04010201	40.0	1966-79	13
04019300	West Two River near Iron Junction	472405	0924210	04010201	65.3	1954-79	23
04019500	West Swan River near Silica	471736	0930230	04010201	16.3	1963-79	15
04019500	East Swan River near Toivola	471655	0925005	04010201	112	1954-72	16
04024000	St. Louis River at Soanlon	464212	0922507	04010201	3430	1908-83	75
05030000	Otter Tail River near Detroit Lakes	465012	0954157	09020103	270	1937-71	34
05030500	Otter Tail River at German Church nr Fergus Falls	462210	0960100	09020103	1230	1904-17	13
05040000	Pelican River near Detroit Lakes	464326	0955456	09020103	123	1942-54	11
05040500	Pelican River near Fergus Falls	462010	0960710	09020103	482	1909-81	41
05047500 a	Otter Tail River bl Orwell Dam nr Fergus Falls	461235	0961105	09020103	1830	1931-83	53
05048000 n	Mustinka Ditch ab W Br Mustinka R nr Charlesville	455325	0962130	09020102	.	1943-55	12
05048500 a	W Br Mustinka R bl W Br Mustinka R nr Charlesville	455320	0962145	09020102	.	1943-55	12
05049000	Mustinka River above Wheaton	454915	0962925	09020102	834	1916-58	36
05050000	Bois de Sioux River near White Rock, SD	455145	0963425	09020101	1160	1942-83	42
05050500 a	Bois de Sioux River near Fairmount, ND	460300	0963325	09020101	1540	1920-44	25
05051500	Red River of the North at Wahpeton, ND	461555	0961945	09020104	4010	1942-83	42
05054000	Red River of the North at Fargo, ND	465140	0964700	09020104	6800	1901-83	83
05061000	Buffalo River near Hawley	465100	0961945	09020106	322	1945-83	34
05061500	South Branch Buffalo River at Sabin	464620	0963740	09020106	522	1945-83	34
05062000	Buffalo River near Dilworth	465740	0963940	09020106	1040	1931-83	52
05062500	Wild Rice River at Twin Valley	471600	0961440	09020108	888	1909-83	60
05064000	Wild Rice River at Hendrum	471605	0964750	09020108	1600	1944-83	39
05064500	Red River of the North at Halstad	472100	0965100	09020107	21800	1961-83	22
05067500	Marab River near Shelly	472445	0964550	09020107	151	1944-83	39
05068000	Sand Hill River at Beltrami	473250	0963200	09020301	324	1943-58	14
05069000	Sand Hill Ditch at Beltrami	473210	0963200	09020301	.	1943-58	10
05074500	Red Lake River near Red Lake	473643	0964852	09020301	426	1943-83	37
05075000	Red Lake River at High Landing nr Goodrich	475727	0951635	09020302	1950	1933-84	50
05076000	Thief River near Thief River Falls	480234	0954828	09020303	2300	1930-83	54
05076500	Red Lake River at Thief River Falls	481108	0961011	09020304	959	1909-83	65
05077500	Clearwater River near Leonard	480640	0961050	09020303	3450	1909-30	19
05077700	Ruffy Brook near Conyick	474405	0951226	09020305	153	1934-47	13
		474450	0952445	09020305	45.2	1960-78	18

Table 1.—Continuous-record streamflow stations with 10 or more years of record used in low-flow analysis—Continued

[s - only seasonal curves were plotted, n - neither annual nor seasonal were plotted]

Station I.d.	Station name	Latitude	Longitude	Hydrologic unit	Area	Period of record	Years of record
05078000	Clearwater River at Plummer	475524	0960246	09020305	512	1939-83	41
05078230	Lost River at Oklee	475035	0955130	09020305	266	1960-83	22
05078500	Clearwater River at Red Lake Falls	475315	0961625	09020305	1370	1909-83	56
05079000	Red Lake River at Crookston	474632	0963633	09020303	5280	1901-83	82
05082500	Red River of the North at Grand Forks, MD	475634	0970310	09020301	30100	1904-83	80
05087500	Middle River at Argyle	482027	0964902	09020309	265	1945-83	32
05092000	Red River of the North at Drayton, MD	483420	0970850	09020311	34800	1949-83	35
05093000 s	South Branch Two Rivers at Polan	483845	0962315	09020312	281	1928-57	13
05094000	South Branch Two Rivers at Lake Bronson	484350	0963950	09020312	444	1929-82	40
05095500	Two Rivers below Mallock	484650	0970225	09020312	644	1945-55	10
05096000 s	North Branch Two Rivers near Lancaster	485321	0964001	09020312	32.0	1929-55	23
05096500 s	State Ditch #85 near Lancaster	485202	0964001	09020312	95.0	1929-55	22
05102500	Red River of the North at Emerson, Manitoba, Canada	490030	0971240	09020311	40200	1912-83	72
05104000	South Fork Roseau River near Malung	484700	0954416	09020314	312	1911-46	20
05104500	Roseau River below South Fork near Malung	484730	0954440	09020314	573	1947-83	37
05106000	Sprague Creek near Sprague, Manitoba, Canada	485933	0953933	09020314	169	1930-81	54
05107000	Pine Creek near Pine Creek	485935	0955504	09020314	74.6	1928-53	25
05107500	Roseau River at Ross	485837	0955518	09020314	1220	1928-83	55
05112000	Roseau River below State Ditch 51 near Caribou	485854	0962746	09020314	1570	1917-83	26
05124480	Kawiahwi River near Ely	475522	0913206	09030001	253	1966-83	17
05124500	Isabella River near Isabella	474800	0913115	09030001	341	1953-78	10
05125000	South Kawiahwi River near Ely	475024	0914143	09030001	.	1952-79	12
05125500	Stony River near Isabella	474110	0913820	09030001	180	1953-65	12
05126000	Dunka River near Rabbitt	474155	0915205	09030001	53.4	1952-81	16
05126500	Bear Island River near Ely	474950	0915020	09030001	68.5	1953-78	12
05127000	Kawiahwi River near Winton	475605	0914550	09030001	1229	1905-83	64
05127205	Burnside River near Ely	475455	0915659	09030001	.	1967-78	11
05127210	Armstrong Creek near Ely	475348	0915550	09030001	5.29	1967-78	11
05127215	Longstaff Creek near Ely	475333	0915455	09030001	8.84	1967-78	11
05127220	Burgo Creek near Ely	475532	0915140	09030001	3.04	1967-78	11
05127230	Shagawa River at Ely	475509	0915008	09030001	99.0	1967-79	11
05127500	Basswood River near Winton	480455	0913910	09030001	1740	1931-83	51
05128000	Nasakan R at outlet of Lac la Croix, Ontario, Canada	482300	0921040	09030001	5170	1921-83	63
05128500	Pike River near Embarras	473936	0921854	09030002	115	1954-79	12
05129000	Vermillion River below Vermillion Lk near Tower	475741	0922833	09030002	483	1911-82	59
05130500	Sturgeon River near Chiabola	474025	0925400	09030005	187	1942-83	41
05131000	Dark River near Chisholm	474127	0924915	09030005	50.6	1942-79	33
05131500	Little Fork River at Littlefork	482355	0933356	09030005	1730	1909-83	60
05132000	Big Fork River at Big Falls	481145	0934825	09030006	1460	1909-83	52
05133500	Rainy River at Manitou Rapids	483804	0935447	09030004	19400	1933-83	51
05134200	Rapid River near Baudette	483210	0943345	09030007	543	1957-83	27
05139500	Warroad River near Warroad	485200	0952120	09030009	162	1946-80	34
05140000 n	Bulldog Run near Warroad	485130	0952020	09030009	14.2	1946-77	16
05140500	East Branch Warroad River near Warroad	485130	0951840	09030009	102	1946-77	19
05201500	Mississippi River at Winnibigoshish Dam	472542	0940300	07010101	1442	1960-83	24
05206500	Leech Lake River at Federal Dam	471445	0941312	07010102	1163	1961-83	23

Table 1.—Continuous-record streamflow stations with 10 or more years of record used in low-flow analysis—Continued

[a - only seasonal curves were plotted, n - neither annual nor seasonal were plotted]

Station I.d.	Station name	Latitude	Longitude	Hydrologic unit	Area	Period of record	Years of record
05211000	Mississippi River at Grand Rapids	471356	0933148	07010103	3370	1942-83	41
05212700	Prairie River near Taconite	472320	0932250	07010103	360	1967-82	15
05216860	Swan River near Calumet	471720	0931354	07010103	114	1964-83	19
05217000	Swan River near Warba	470640	0931550	07010103	254	1954-69	16
05219000	Sandy River at Sandy Lake Dam, at Libby	464720	0931910	07010103	421	1961-83	23
05220500	Mississippi River below Sandy River nr Libby	464723	0931943	07010103	5060	1930-83	53
05227500	Mississippi River at Aitkin	463226	0934226	07010104	6140	1945-83	38
05231000	Pine River at Cross Lake Dam, at Cross Lake	464009	0940644	07010105	562	1942-83	32
05241500	Rabbit River near Crosby	463055	0935735	07010104	838	1945-63	17
05244000	Crow Wing River at Mamar	463825	0945244	07010106	1010	1910-82	42
05245100	Long Prairie River at Long Prairie	455830	0945156	07010108	432	1972-83	12
05246000	Crow Wing River at Pillager	461858	0942112	07010106	287	1960-83	24
05247000	Gull River at Gull Lake Dam near Brainerd	461818	0942238	07010106	3300	1969-83	15
05247500	Crow Wing River near Pillager	455140	0942130	07010104	11600	1924-83	59
05267000	Mississippi River near Royalton	453335	0941400	07010202	925	1909-82	51
05270500	Sauk River near St. Cloud	452002	0934000	07010203	615	1911-83	55
05275000	Elk River near Big Lake	451809	0933353	07010203	14500	1915-57	41
05276000	Mississippi River at Elk River	452245	0944740	07010204	215	1943-55	11
05276000	North Fork Crow River near Regal	451545	0944810	07010204	179	1949-83	34
05278000	Middle Fork Crow River near Spicer	445605	0944020	07010205	221	1945-64	19
05278500	South Fork Crow River at Cosmos	445605	0944020	07010205	1170	1934-79	45
05280000	South Fork Crow River near Mayer	450512	0934402	07010204	2520	1906-83	57
05280000	Crow River at Rockford	451940	0932220	07010207	1360	1929-83	51
05286000	Rum River near St. Francis	450736	0931748	07010206	19100	1931-83	52
05288500	Mississippi River near Anoka	445830	0932645	07010206	130	1953-64	11
05289500	Minnehaha Creek at Minnetonka Mills	445830	0932645	07010206	130	1953-64	11
05290000	Little Minnesota River near Peever, SD	453605	0965218	07020001	447	1940-81	42
05291000	Whetstone River near Big Stone City, SD	451732	0962914	07020001	389	1910-83	57
05292000	Minnesota River at Ortonville	451744	0962638	07020001	1160	1938-83	45
05292500	Minnesota River near Odessa	451522	0962020	07020001	1340	1909-63	18
05293000	Yellow Bank River near Odessa	451335	0962112	07020001	398	1940-83	44
05294000	Pomme de Terre River at Appleton	451210	0960120	07020002	905	1931-83	48
05300000	Lac qui Parle River near Lac qui Parle	445942	0955509	07020003	983	1910-83	52
05301000	Minnesota River near Lac qui Parle	450117	0955205	07020004	4050	1943-83	41
05304500	Chippewa River near Milan	450639	0954757	07020005	1870	1938-83	46
05305000	Chippewa River near Watson	450120	0954728	07020005	2050	1910-36	14
05311000	Minnesota River at Montevideo	445600	0954400	07020004	6180	1909-83	62
05311400	South Branch Yellow Medicine River at Minnesota	443350	0955950	07020004	111	1960-83	22
05313500	Yellow Medicine River near Granite Falls	444318	0953107	07020004	653	1931-83	47
05315000	Redwood River near Marshall	442549	0955043	07020006	303	1940-83	43
05316500	Redwood River near Redwood Falls	443125	0951020	07020006	697	1909-83	49
05317000	Cottonwood River near New Ulm	441447	0942640	07020007	1260	1909-83	49
05317200	Little Cottonwood River near Courtland	441447	0942640	07020007	230	1974-83	10
05317500	Minnesota River at Judson	441200	0941136	07020007	11200	1938-51	12
05318000	East Branch Blue Earth River near Briceville	433750	0934725	07020009	132	1951-70	19
05319500	Watson River near Garden City	440245	0941138	07020010	812	1940-83	12

Table 1.--Continuous-record streamflow stations with 10 or more years of record used in low-flow analysis--Continued

[a - only seasonal curves were plotted, n - neither annual nor seasonal were plotted]

Station I.d.	Station name	Latitude	Longitude	Hydrologic unit	Area	Period of record	Years of record
05320000	Blue Earth River near Rapidan	440544	0940633	07020009	2430	1909-83	44
05320500	Le Sueur River near Rapidan	440640	0940228	07020011	1100	1940-83	40
05324000	Minnesota River at Mankato	441010	0940015	07020007	14900	1903-83	62
05327000	High Island Creek near Henderson	443419	0935518	07020012	237	1974-83	10
05330000	Minnesota River near Jordan	444135	0933830	07020012	16200	1935-83	49
05330900	Nine Mile Creek at Bloomington	444846	0931807	07020012	39.0	1963-73	11
05331000	Mississippi River at St. Paul	445640	0930520	07010206	36800	1892-1983	84
05333500	St. Croix River near Danbury, WI	460428	0921450	07030001	1588	1914-81	68
05336000	St. Croix River near Grantsburg, WI	455525	0923820	07030001	2820	1923-71	49
05336200	Gilady Brook near Kettle River	462719	0925134	07030003	24.2	1960-70	11
05336700	Kettle River below Sandstone	460620	0925150	07030003	863	1968-83	16
05338500	Snake River near Pine City	455030	0925600	07030004	958	1913-82	34
05339500	St. Croix River near Rush City	454215	0925220	07030005	5120	1923-61	38
05340000	Sunrise River near Stacy	452430	0925555	07030005	167	1949-65	15
05340050	Sunrise River near Lindstrom	452700	0925310	07030005	231	1965-83	18
05340500	St. Croix River at St. Croix Falls, WI	452425	0923849	07030001	6240	1902-83	82
05344500	Mississippi River at Prescott, WI	444445	0924800	07040001	44800	1928-83	56
05345000	Vermillion River near Empire	444000	0930317	07040001	110	1974-83	10
05353800	Straight River near Faribault	441529	0931351	07040002	442	1966-83	18
05355200	Cannon River at Welch	443350	0924355	07040002	1320	1909-71	42
05373000	South Fork Zumbro River near Rochester	440400	0922755	07040004	304	1952-82	29
05374000	Zumbro River at Zumbro Falls	441712	0922556	07040004	1130	1909-81	58
05374500	Zumbro River at Theilman	441715	0921125	07040004	1320	1938-57	18
05376000	North Fork Whitewater River near Elba	440530	0920357	07040003	101	1967-83	16
05376500	South Fork Whitewater River near Altura	440410	0915849	07040003	76.8	1940-71	32
05377500	Whitewater River at Beaver	440928	0920018	07040003	288	1940-57	17
05378300	Straight Valley Creek near Rollingstone	440509	0915034	07040003	5.16	1971-83	13
05378500	Mississippi River at Winona	440320	0913815	07040003	59200	1928-83	55
05379000	Gilmore Creek at Winona	440240	0914125	07040003	8.95	1940-63	23
05383500	Mississippi River at La Crosse, WI	434845	0911525	07040006	62800	1929-55	27
05384000	Root River near Lanesboro	434458	0915843	07040008	615	1910-83	48
05384500	Rush Creek near Rushford	435000	0914640	07040008	129	1942-79	37
05385000	Root River near Houston	434605	0913511	07040008	1270	1910-83	60
05385500	South Fork Root River near Houston	434419	0913350	07040008	275	1953-83	30
05386000	Root River below South Fork near Houston	434613	0913203	07040008	1560	1938-61	23
05457000	Cedar River near Austin	433810	0925820	07080201	425	1909-83	44
05470000	Des Moines River at Jackson	433710	0945910	07020009	1220	1909-83	48
05476500	Des Moines River at Estherville, IA	432351	0945038	07100002	1372	1952-83	32
06483270	Rock River at Rock Rapids, IA	432613	0960958	10170204	788	1961-75	15
06603000 a	Little Sioux River near Lakefield	433710	0951630	10230003	17.1	1948-63	14
06603500 a	Jackson County Ditch #11 near Lakefield	433710	0951610	10230003	7.69	1948-61	12

Low-flow characteristics taken from these frequency curves are listed with the plotted graphs. These characteristics are described in terms of recurrence interval instead of probability as shown on the plot. Recurrence interval, in years, is the reciprocal of probability when the frequency curve is based on only one data item per year. Thus the 20-year recurrence interval corresponds to a probability of 0.05 (5 percent). If a low-flow discharge at a given recurrence interval was determined to be zero, it is listed as 0.0, and if the low flow was determined to be between zero and 0.1 cubic foot per second it is listed as <0.1. Note that this report contains the results of one of several possible analytical techniques. Stations with insufficient data for graphical presentation are listed in table 2.

Stations plotted in the appendices are listed alphabetically in the index starting on page 12. Annual low-flow probability plots are presented in Appendix A while seasonal plots are presented in Appendix B.

SUMMARY

Annual and seasonal low-flow characteristics were determined for 175 streamflow stations in Minnesota having at least 10 years of continuous record by fitting a Log-Pearson Type III distribution to the data. Tables and graphs summarize each analysis. These data supersede those presented in earlier reports.

Low-flow characteristics can and will vary for a station depending upon the number of years of record and the period gaged. When comparing low-flow characteristics between two or more stations, it should be remembered that no provisions were made to use concurrent periods of record for stations along the same stream.

Table 2.--Continuous-record streamflow stations where partial plots of annual and (or) seasonal probabilities are shown in Appendices A and B

Station ID	Station name	Annual statistics		Seasonal statistics	
		1-day 7-day 30-day		1-day 7-day 30-day	
04010500	Pigeon River at Middle Falls near Grand Portage	A	B	B	B
05047500	Mustinka Ditch ab W Br Mustinka R nr Charlesville	C	D	B	B
05048000	Mustinka Ditch bl W Br Mustinka R nr Charlesville	C	C	C	D
05048500	W Br Mustinka R bl Mustinka Ditch nr Charlesville	C	D	B	B
05050500	Bois de Souix River near Fairmont, ND	D	D	B	B
05068000	Sand Hill River at Beltrami	D	B	B	B
05078500	Clearwater River at Red Lake Falls	B	A	B	B
05093000	South Branch Two Rivers at Pelan	C	C	D	B
05096000	North Branch Two Rivers near Lanoster	C	C	D	B
05096500	State ditch #85 near Lanoster	C	C	B	B
05140000	Bulldog Run near Warroad	C	C	C	D
05289500	Minnehaha Creek at Minnetonka Mills	D	D	B	B
06603000	Little Souix River near Lakefield	C	C	C	B
06603500	Jackson County Ditch #11 near Lakefield	C	C	D	B

Explanation:

- A Low-flow discharges were not determined because the absolute value of the skew was greater than 3.3.
- B Low-flow discharges were determined and are tabulated on the appropriate plots.
- C Low-flow discharge is 0.0 cubic feet per second for all frequencies.
- D No low-flow discharges were determined for any of the frequencies because there were less than three nonzero flows for years within the period of record.

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INDEX OF STREAMFLOW STATIONS, ANNUAL- AND SEASONAL-PROBABILITY PLOTS

	Page	
	Annual	Seasonal
Armstrong Creek near Ely.....	A-64	B-70
Baptism River near Beaver Bay.....	4	4
Basswood River near Winton.....	68	74
Bear Island River near Ely.....	61	67
Big Fork River at Big Falls.....	75	81
Blue Earth River near Rapidan.....	127	134
Bois de Sioux River near Fairmount, ND.....	-	24
Bois de Sioux River near White Rock, SD.....	21	23
Buffalo River near Dilworth.....	26	29
Buffalo River near Hawley.....	24	27
Bulldog Run near Warroad.....	-	-
Burgo Creek near Ely.....	66	72
Burntside River near Ely.....	63	69
Cannon River at Welch.....	146	153
Cedar River near Austin.....	162	169
Chippewa River near Milan.....	115	122
Chippewa River near Watson.....	116	123
Clearwater River at Plummer.....	40	43
Clearwater River at Red Lake Falls.....	42	45
Clearwater River near Leonard.....	38	41
Cottonwood River near New Ulm.....	122	129
Crow River at Rockford.....	104	110
Crow Wing River at Nimrod.....	91	97
Crow Wing River at Pillager.....	93	99
Crow Wing River near Pillager.....	95	101
Dark River near Onisholm.....	73	79
Des Moines River at Estherville, IA.....	164	171
Des Moines River at Jackson.....	163	170
Dunka River near Babbitt.....	60	66
East Branch Blue Earth River near Bricelyn.....	125	132
East Branch Warroad River near Warroad.....	79	85
East Swan River near Toivola.....	13	13
East Two Rivers near Iron Junction.....	10	10
Elk River near Big Lake.....	98	104
Embarrass River at Embarrass.....	8	8
Gilmore Creek at Winona.....	155	162
Glaishby Brook near Kettle River.....	136	143
Gull River at Gull Lake Dam near Brainerd.....	94	100
High Island Creek near Henderson.....	130	137
Isabella River near Isabella.....	57	63
Jackson County Ditch #11 near Lakefield.....	-	174
Kawishiwi River near Ely.....	56	62
Kawisniwi River near Winton.....	62	68
Kettle River below Sandstone.....	137	144
Lac qui Parle River near Lac qui Parle.....	113	120
Le Sueur River near Rapidan.....	128	135

INDEX OF STREAMFLOW STATIONS, ANNUAL- AND SEASONAL-PROBABILITY PLOTS--Continued

	Page	
	Annual	Seasonal
Leech Lake River at Federal Dam.....	A-81	B-87
Little Cottonwood River near Courtland.....	123	130
Little Fork River at Littlefork.....	74	80
Little Minnesota River near Peever, SD.....	107	114
Little Sioux River near Lakefield.....	-	173
Long Prairie River at Long Prairie.....	92	98
Longstorff Creek near Ely.....	65	71
Lost River at Oklee.....	41	44
Marsh River near Shelly.....	30	33
Middle Fork Crow River near Spicer.....	101	107
Middle River at Argyle.....	45	48
Minnehaha Creek at Minnetonka Mills.....	-	113
Minnesota River at Judson.....	124	131
Minnesota River at Mankato.....	129	136
Minnesota River at Montevideo.....	117	124
Minnesota River at Ortonville.....	109	116
Minnesota River near Jordan.....	131	138
Minnesota River near Lac qui Parle.....	114	121
Minnesota River near Odessa.....	110	117
Mississippi River at Aitkin.....	88	94
Mississippi River at Elk River.....	99	105
Mississippi River at Grand Rapids.....	82	88
Mississippi River at La Crosse, WI.....	156	163
Mississippi River at Prescott, WI.....	143	150
Mississippi River at St. Paul.....	133	140
Mississippi River at Winnibigoshish Dam.....	80	86
Mississippi River at Winona.....	154	161
Mississippi River below Sandy River near Libby.....	87	93
Mississippi River near Anoka.....	106	112
Mississippi River near Royalton.....	96	102
Mustinka Ditch above West Branch Mustinka River near Charlesville.....	-	20
Mustinka Ditch below West Branch Mustinka River near Charlesville.....	-	-
Mustinka River above Wheaton.....	20	22
Namakan River at outlet of Lac la Croix, Ontario, Canada.....	69	75
Nine Mile Creek at Bloomington.....	132	139
North Branch Two Rivers near Lancaster.....	-	53
North Fork Crow River near Regal.....	100	106
North Fork Whitewater River near Elba.....	150	157
Otter Tail River at German Church near Fergus Falls.....	16	16
Otter Tail River below Orwell Dam Near Fergus Falls.....	19	19
Otter Tail River near Detroit Lakes.....	15	15
Partridge River near Aurora.....	6	6
Pelican River near Detroit Lakes.....	17	17
Pelican River near Fergus Falls.....	18	18

INDEX OF STREAMFLOW STATIONS, ANNUAL- AND SEASONAL-PROBABILITY PLOTS--Continued

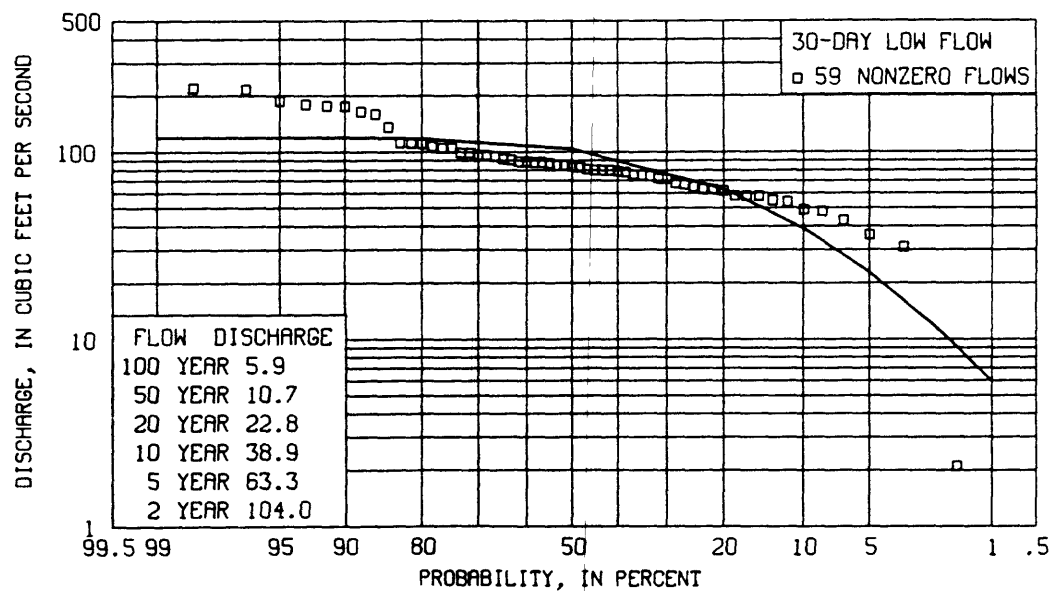
	Page	
	Annual	Seasonal
Pigeon River at Middle Falls near Grand Portage.....	2	2
Pike River near Embarrass.....	70	76
Pine Creek near Pine Creek.....	A-53	B-59
Pine River at Cross Lake Dam, at Cross Lake.....	89	95
Pomme de Terre River at Appleton.....	112	119
Poplar River at Lutsen.....	3	3
Prairie River near Taconite.....	83	89
Rabbit River near Crosby.....	90	96
Rainy River at Manitou Rapids.....	76	82
Rapid River near Baudette.....	77	83
Red Lake River at Crookston.....	43	46
Red Lake River at High Landing near Goodridge.....	35	38
Red Lake River at Thief River Falls.....	37	40
Red Lake River near Red Lake.....	34	37
Red River of the North at Drayton, ND.....	46	49
Red River of the North at Emerson, Manitoba, Canada.....	49	55
Red River of the North at Fargo, ND.....	23	26
Red River of the North at Grand Forks, ND.....	44	47
Red River of the North at Halstad.....	29	32
Red River of the North at Wahpeton, ND.....	22	25
Redwood River near Marshall.....	120	127
Redwood River near Redwood Falls.....	121	128
Rock River at Rock Rapids, IA.....	165	172
Root River below South Fork near Houston.....	161	168
Root River near Houston.....	159	166
Root River near Lanesboro.....	157	164
Roseau River at Ross.....	54	60
Roseau River below South Fork near Malung.....	51	57
Roseau River below State Ditch 51 near Caribou.....	55	61
Ruffy Brook near Gonvick.....	39	42
Rum River near St. Francis.....	105	111
Rush Creek near Rushford.....	158	165
Sand Hill Ditch at Beltrami.....	32	35
Sand Hill River at Beltrami.....	31	34
Sand Hill River at Climax.....	33	36
Sandy River at Sandy Lake Dam, at Libby.....	86	92
Sauk River near St. Cloud.....	97	103
Second Creek near Aurora.....	5	5
Shagawa River at Ely.....	67	73
Snake River near Pine City.....	138	145
South Branch Buffalo River at Sabin.....	25	28
South Branch Two Rivers at Lake Bronson.....	47	51
South Branch Two Rivers at Pelan.....	-	50
South Branch Yellow Medicine River at Minnesota.....	118	125
South Fork Crow River at Cosmos.....	102	108
South Fork Crow River near Mayer.....	103	109

INDEX OF STREAMFLOW STATIONS, ANNUAL- AND SEASONAL-PROBABILITY PLOTS--Continued

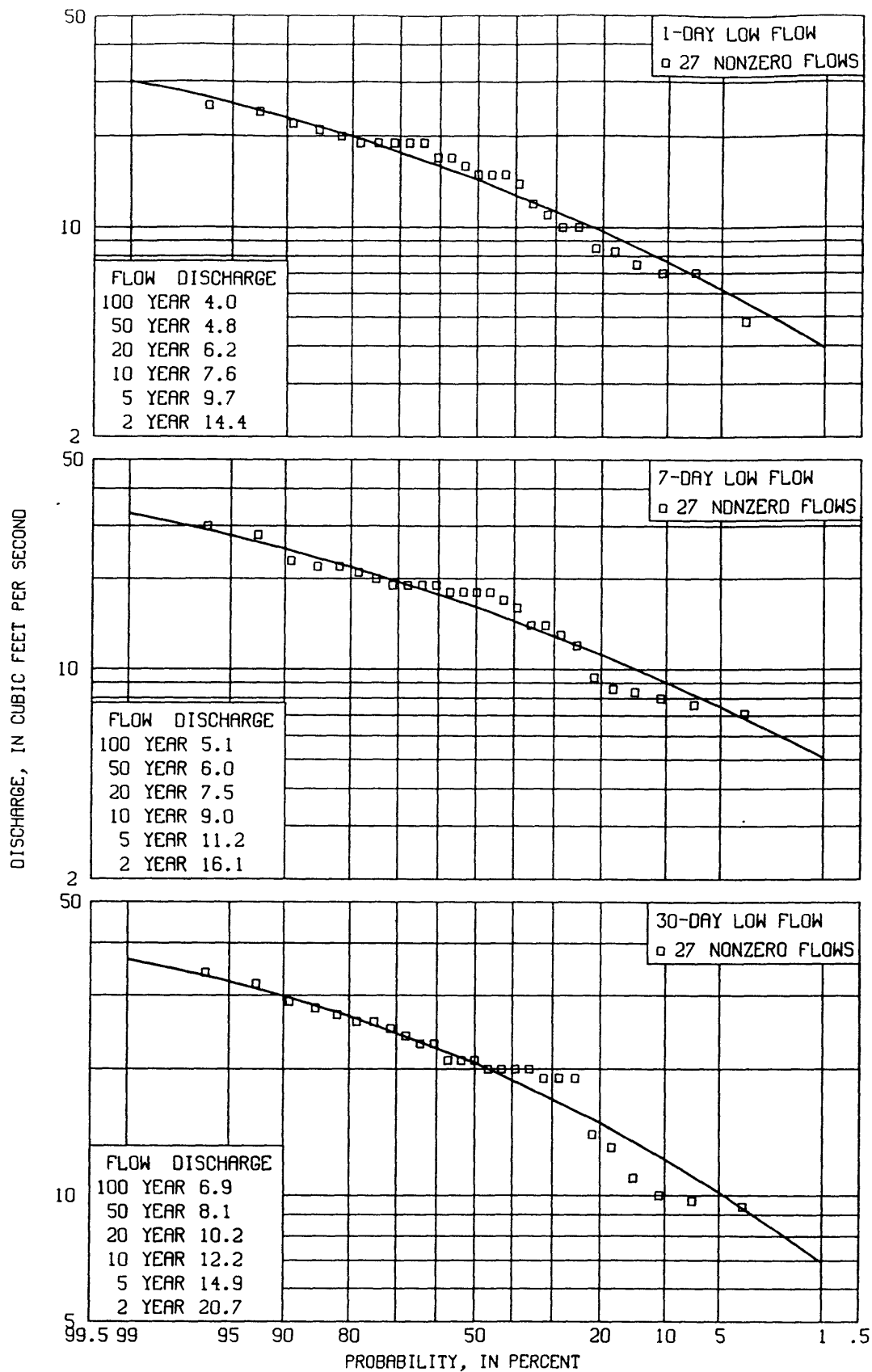
	Page	
	Annual	Seasonal
South Fork Root River near Houston.....	160	167
South Fork Roseau River near Malung.....	50	56
South Fork Whitewater River near Altura.....	151	158
South Fork Zumbro River near Rochester.....	147	154
South Kawishiwi River near Ely.....	A-58	B-64
Sprague Creek near Sprague, Manitoba, Canada.....	52	58
St. Croix River at St. Croix Falls, WI.....	142	149
St. Croix River near Danbury, WI.....	134	141
St. Croix River near Grantsburg, WI.....	135	142
St. Croix River near Rush City.....	139	146
St. Louis River at Forbes.....	9	9
St. Louis River at Scanlon.....	14	14
St. Louis River near Aurora.....	7	7
State Ditch #85 near Lancaster.....	-	54
Stony River near Isabella.....	59	65
Straight River near Faribault.....	145	152
Straight Valley Creek near Rollingstone.....	153	160
Sturgeon River near Chisholm.....	72	78
Sunrise River near Lindstrom.....	141	148
Sunrise River near Stacy.....	140	147
Swan River near Calumet.....	84	90
Swan River near Warba.....	85	91
Thief River near Thief River Falls.....	36	39
Two Rivers below Hallock.....	48	52
Vermilion River below Vermillion Lake near Tower.....	71	77
Vermillion River near Empire.....	144	151
Warroad River near Warroad.....	78	84
Watonwan River near Garden City.....	126	133
West Branch Mustinka River below Mustinka Ditch near Charlesville.....	-	21
West Swan River near Silica.....	12	12
West Two Rivers near Iron Junction.....	11	11
Whetstone River near Big Stone City, SD.....	108	115
Whitewater River at Beaver.....	152	159
Wild Rice River at Hendrum.....	28	31
Wild Rice River at Twin Valley.....	27	30
Yellow Bank River near Odessa.....	111	118
Yellow Medicine River near Granite Falls.....	119	126
Zumbro River at Theilman.....	149	156
Zumbro River at Zumbro Falls.....	148	155

APPENDIX A

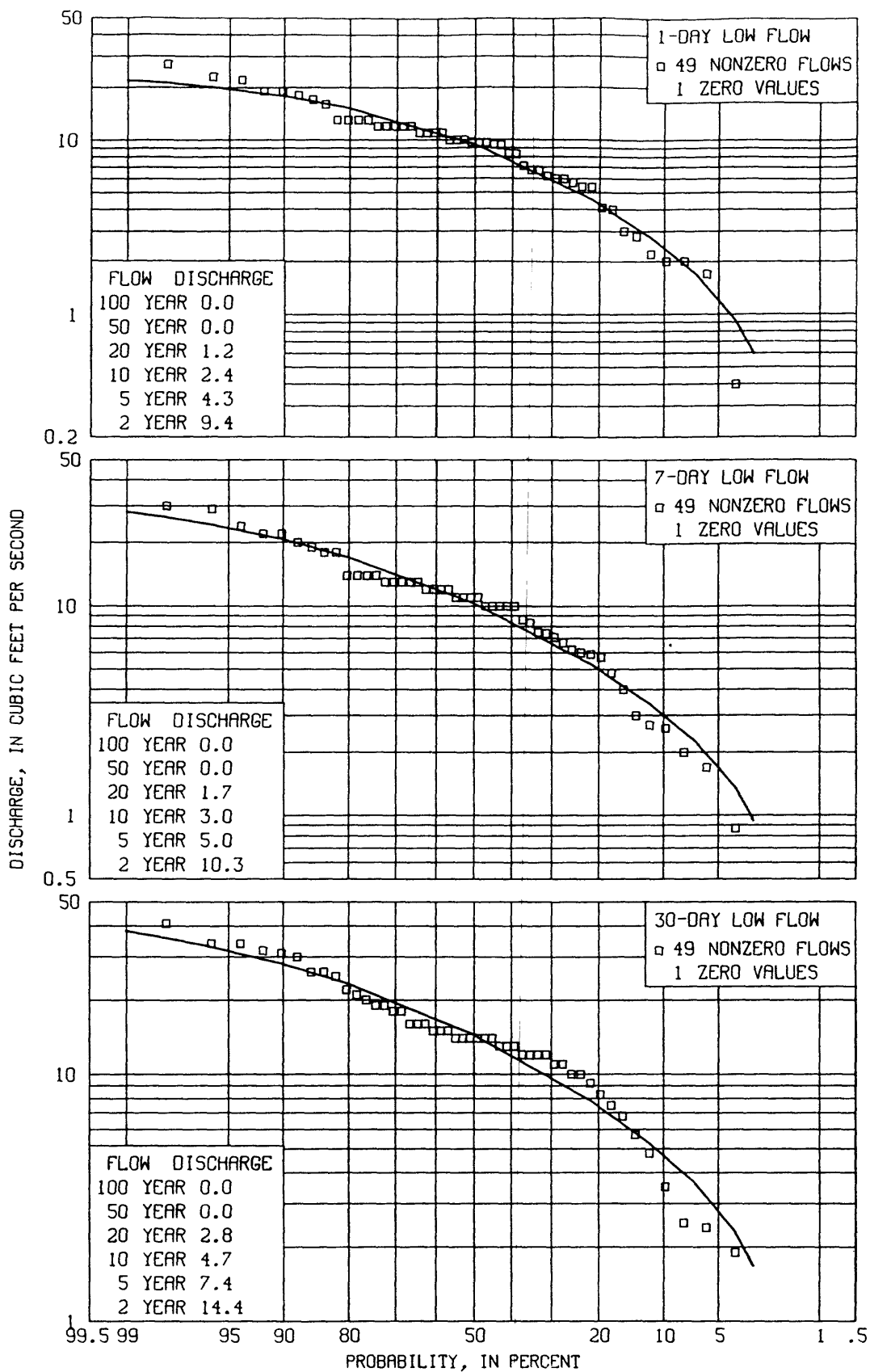
Annual-Probability Plots



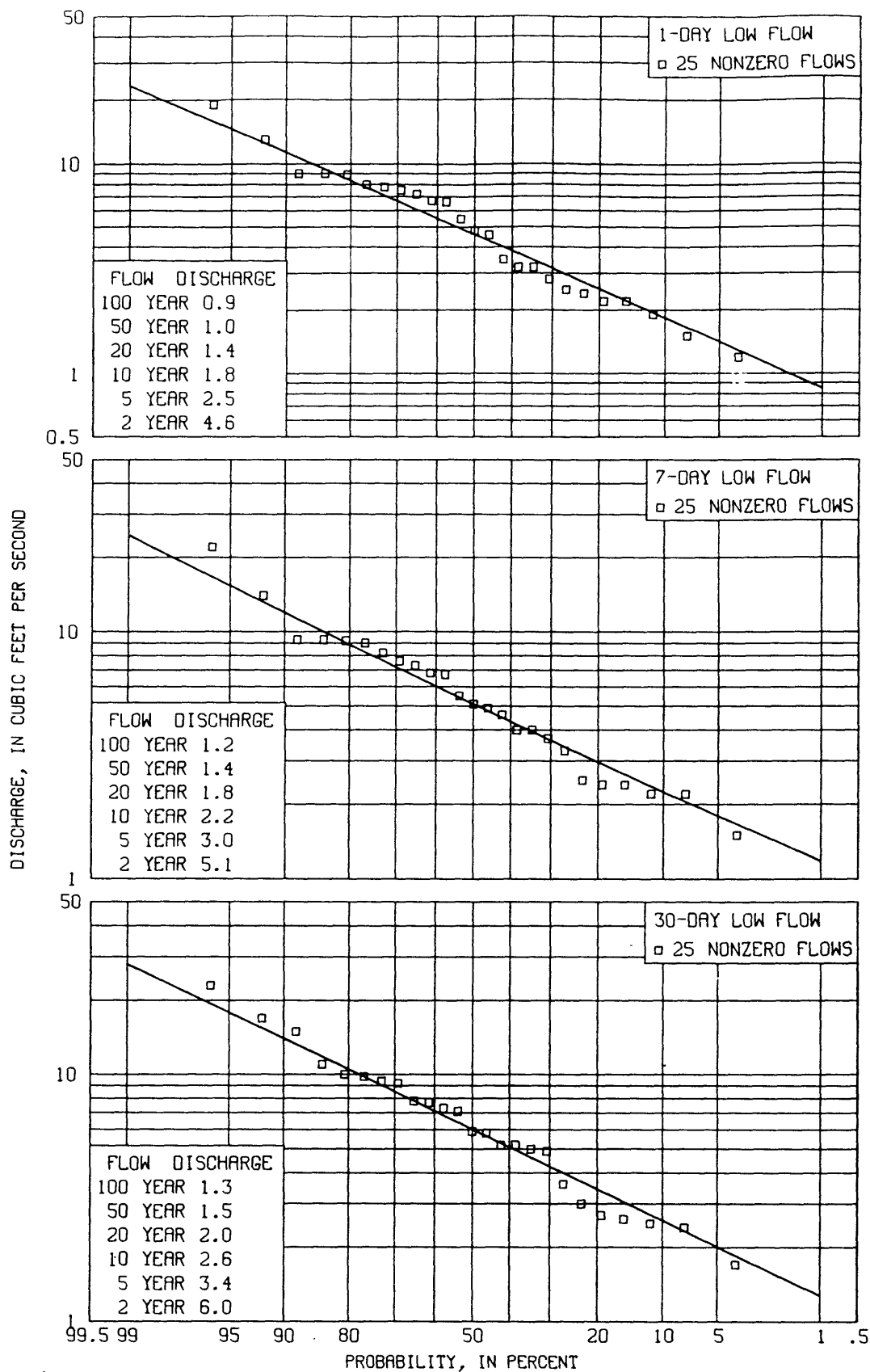
STATION 4010500 PIGEON RIVER AT MIDDLE FALLS NEAR GRAND PORTAGE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



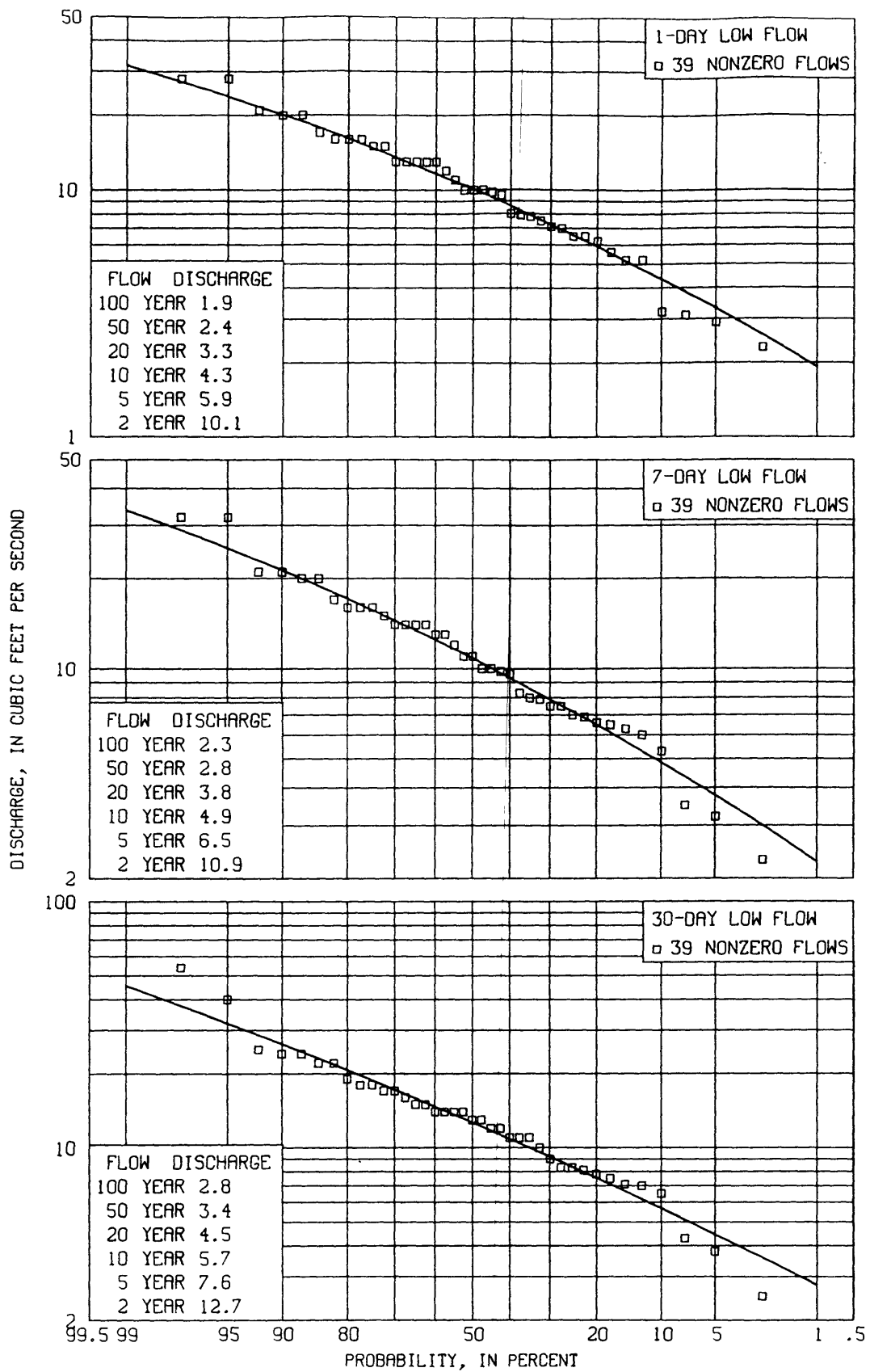
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Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



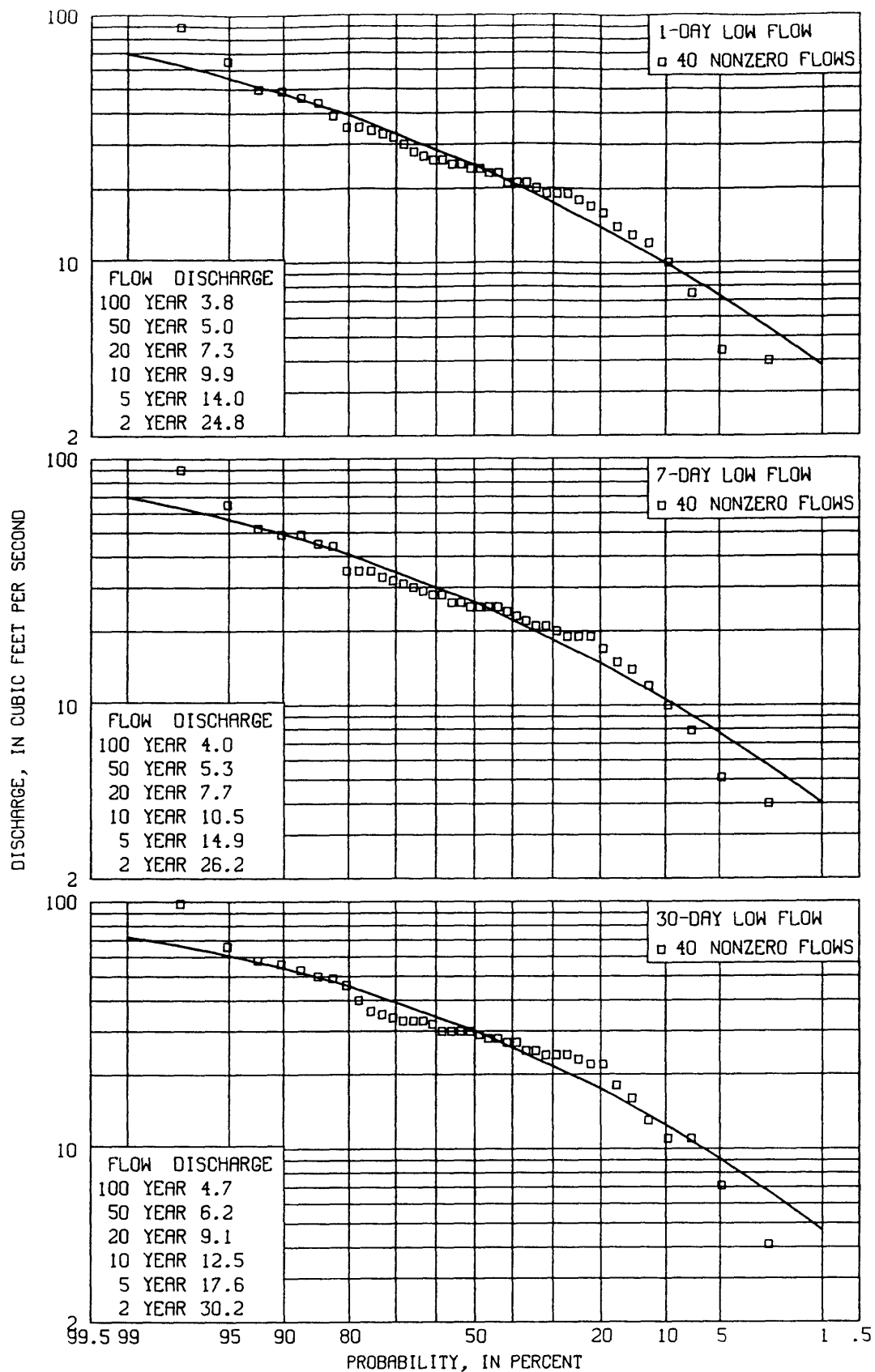
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Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



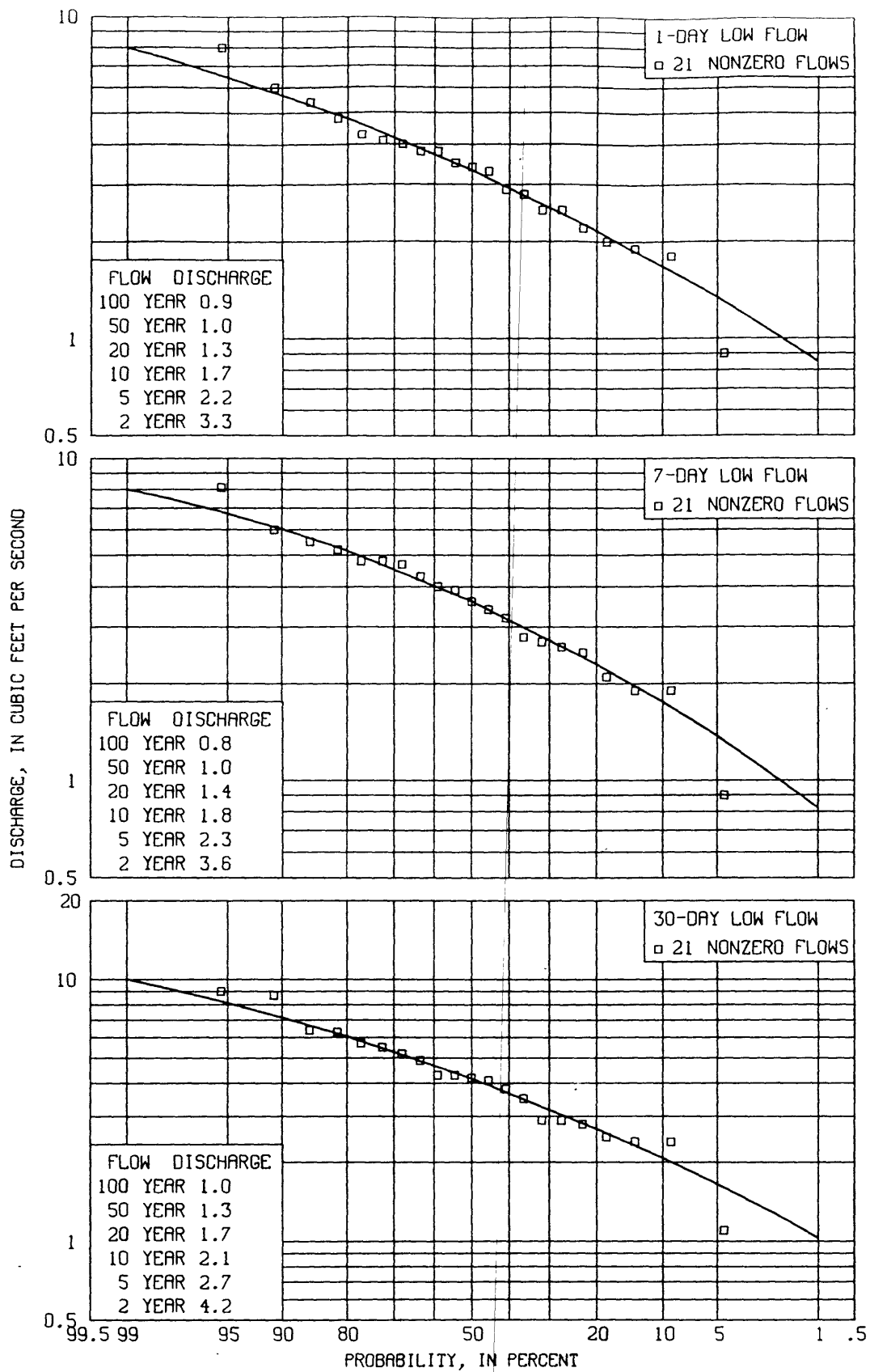
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Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



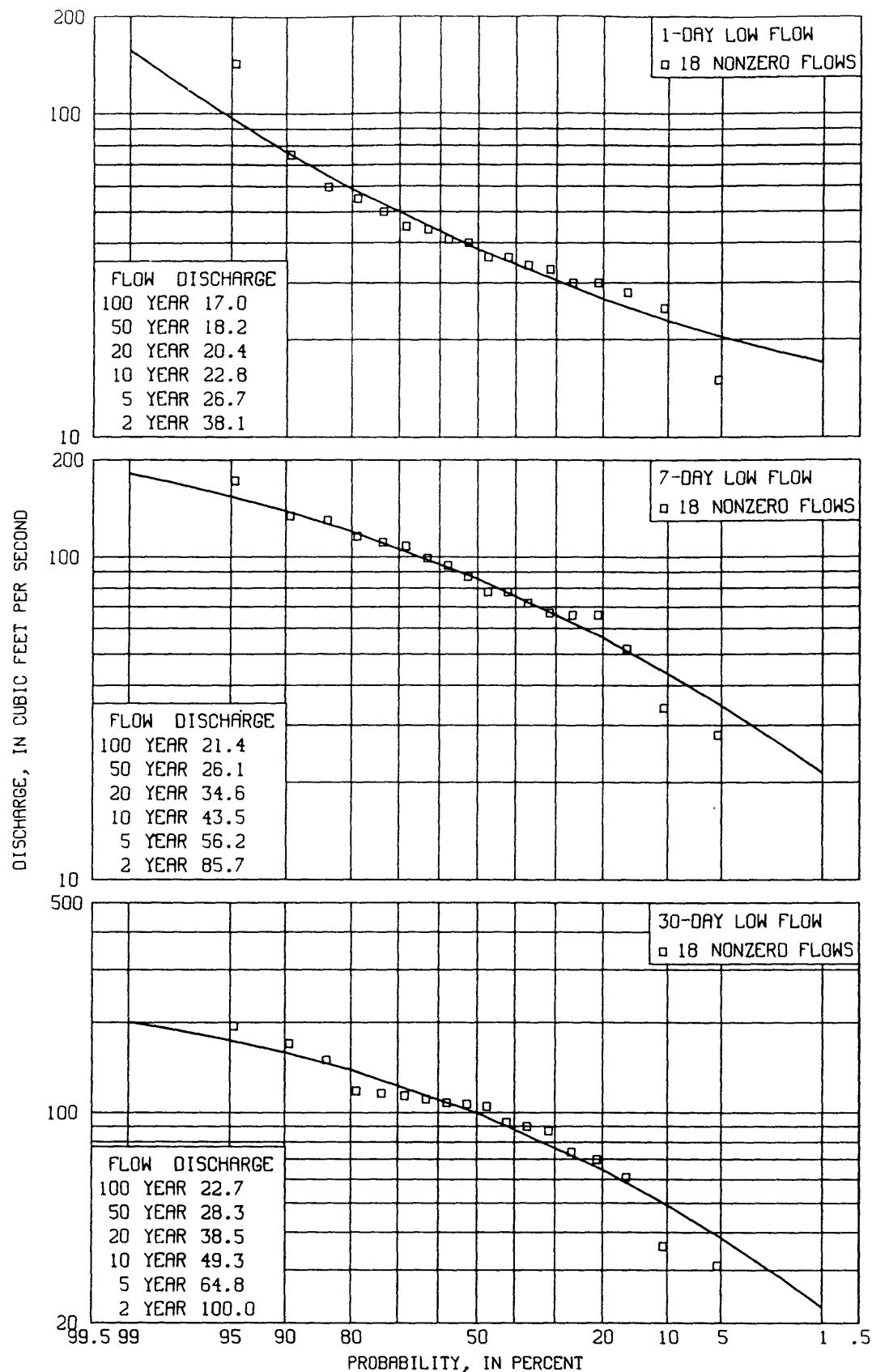
STATION 4016000 PARTRIDGE RIVER NEAR AURORA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



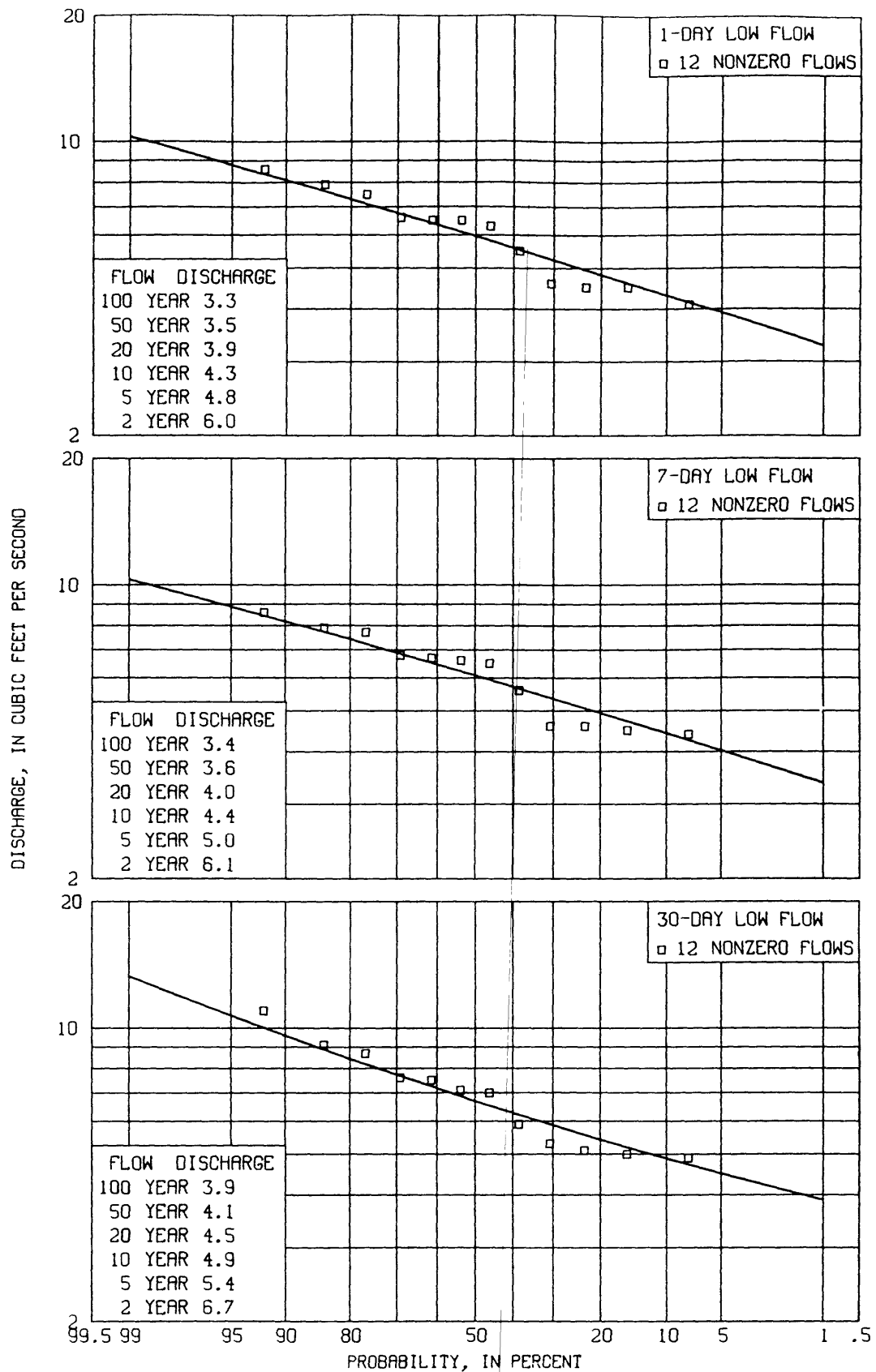
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Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



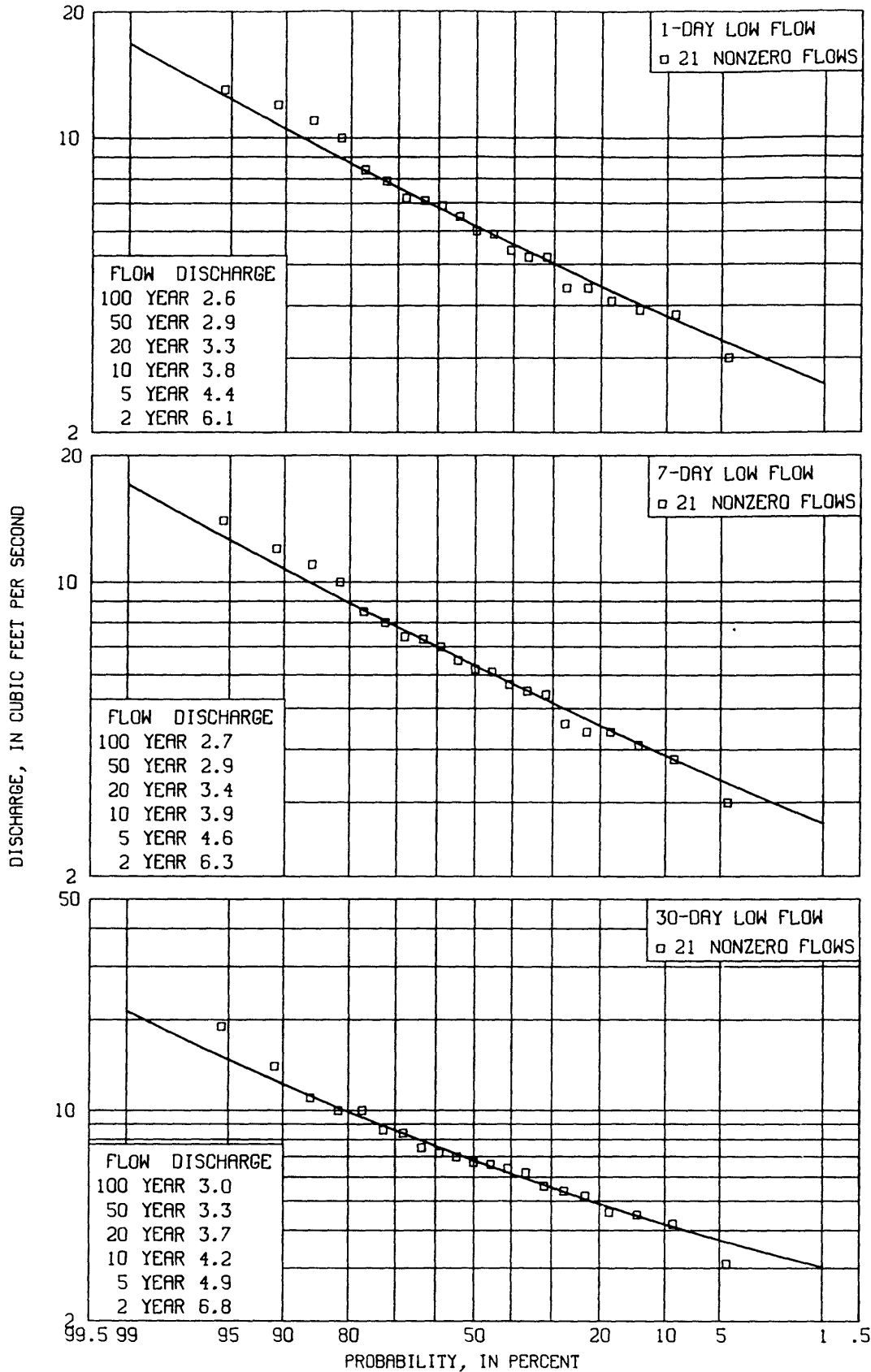
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 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



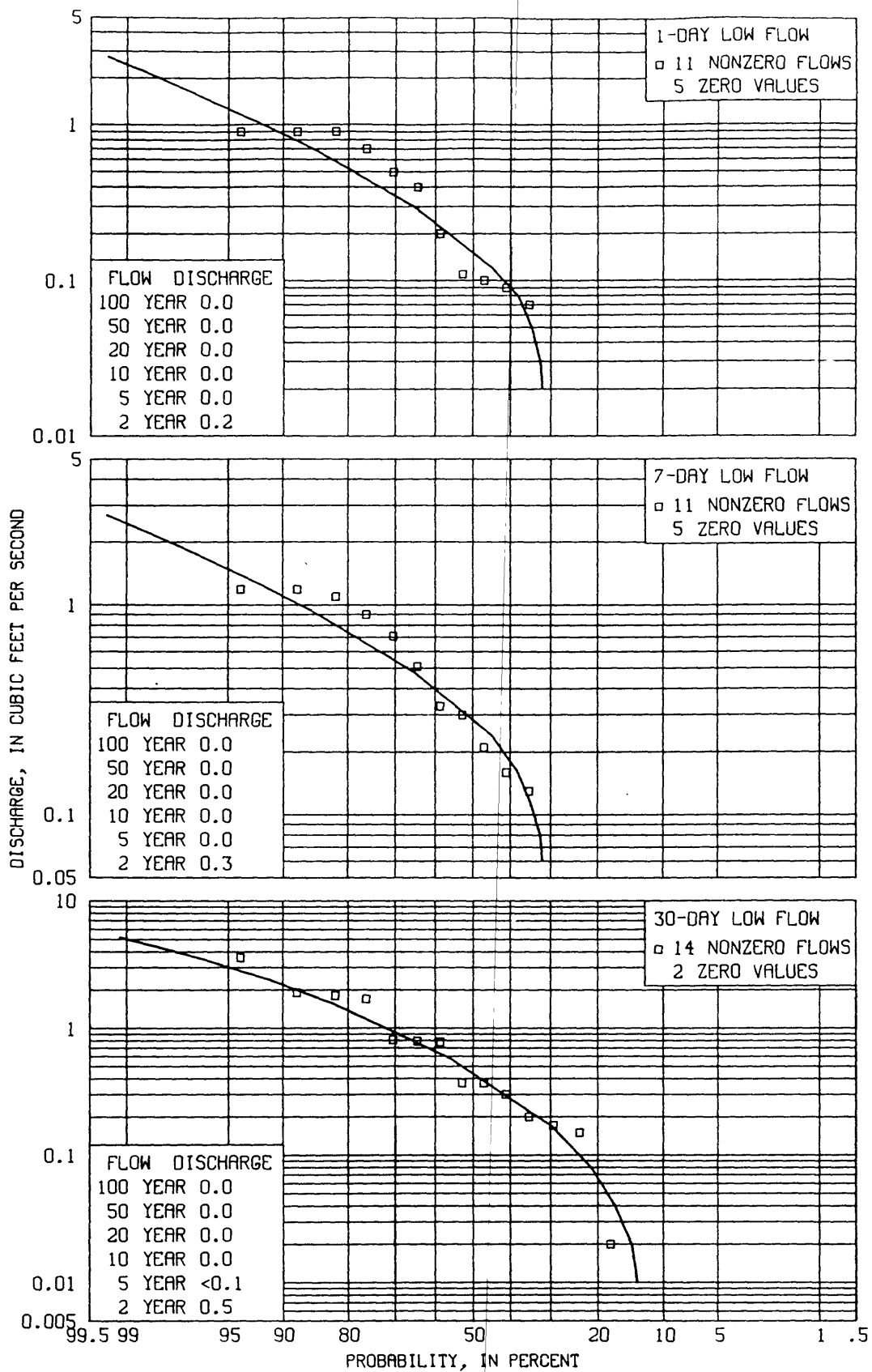
STATION 4018750 ST. LOUIS RIVER AT FORBES
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



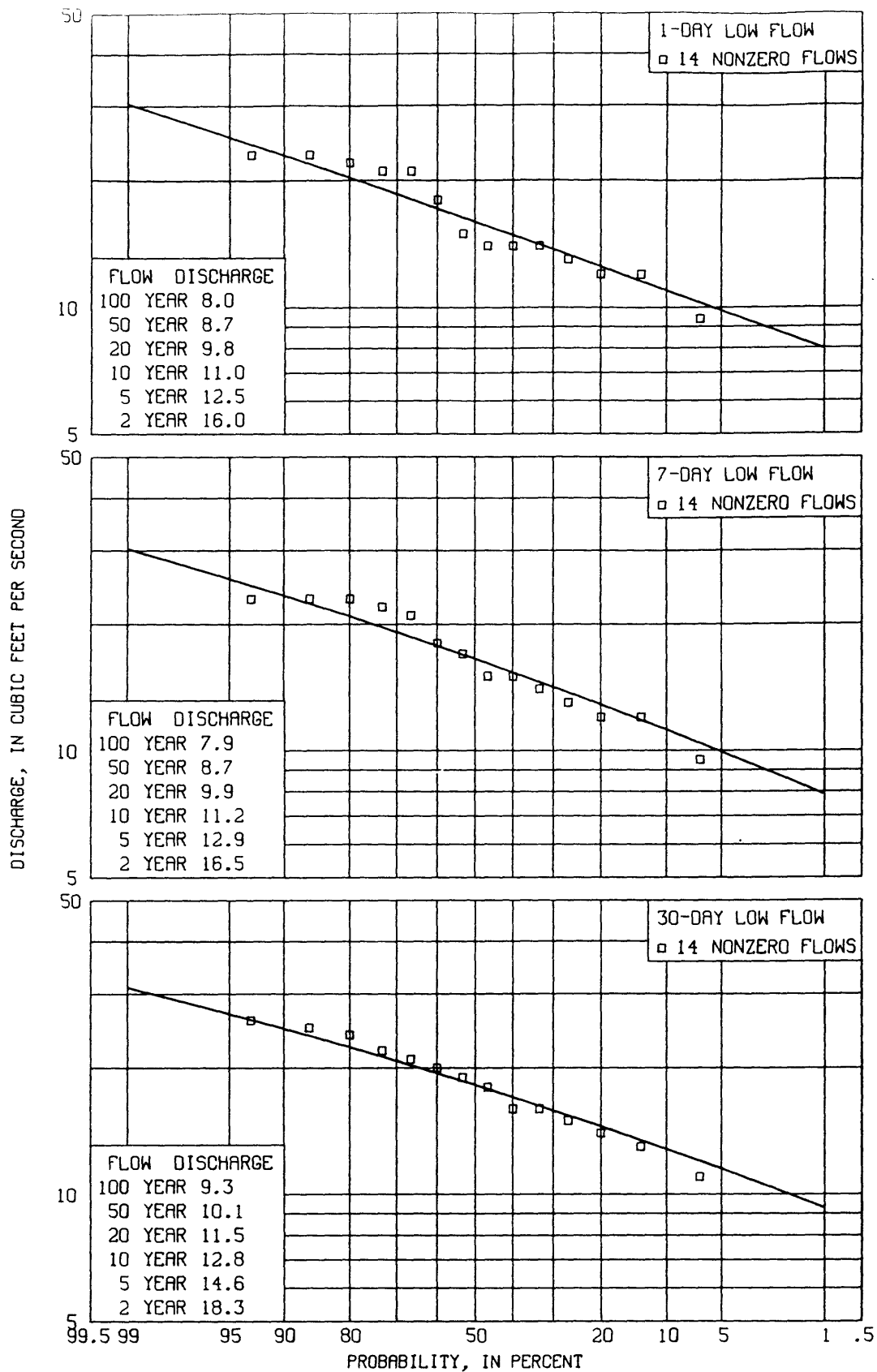
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Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



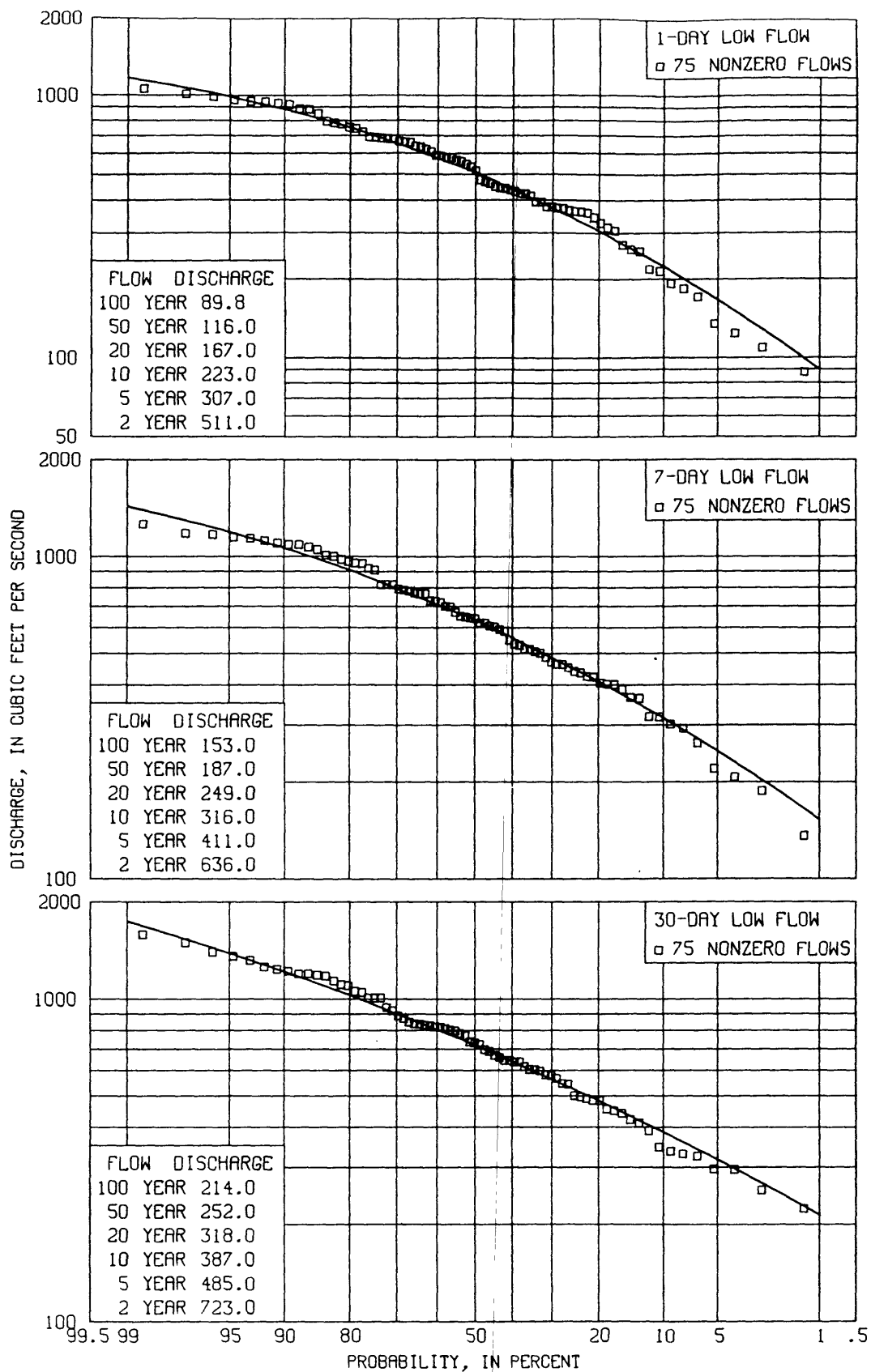
STATION 4019000 WEST TWO RIVER NEAR IRON JUNCTION
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



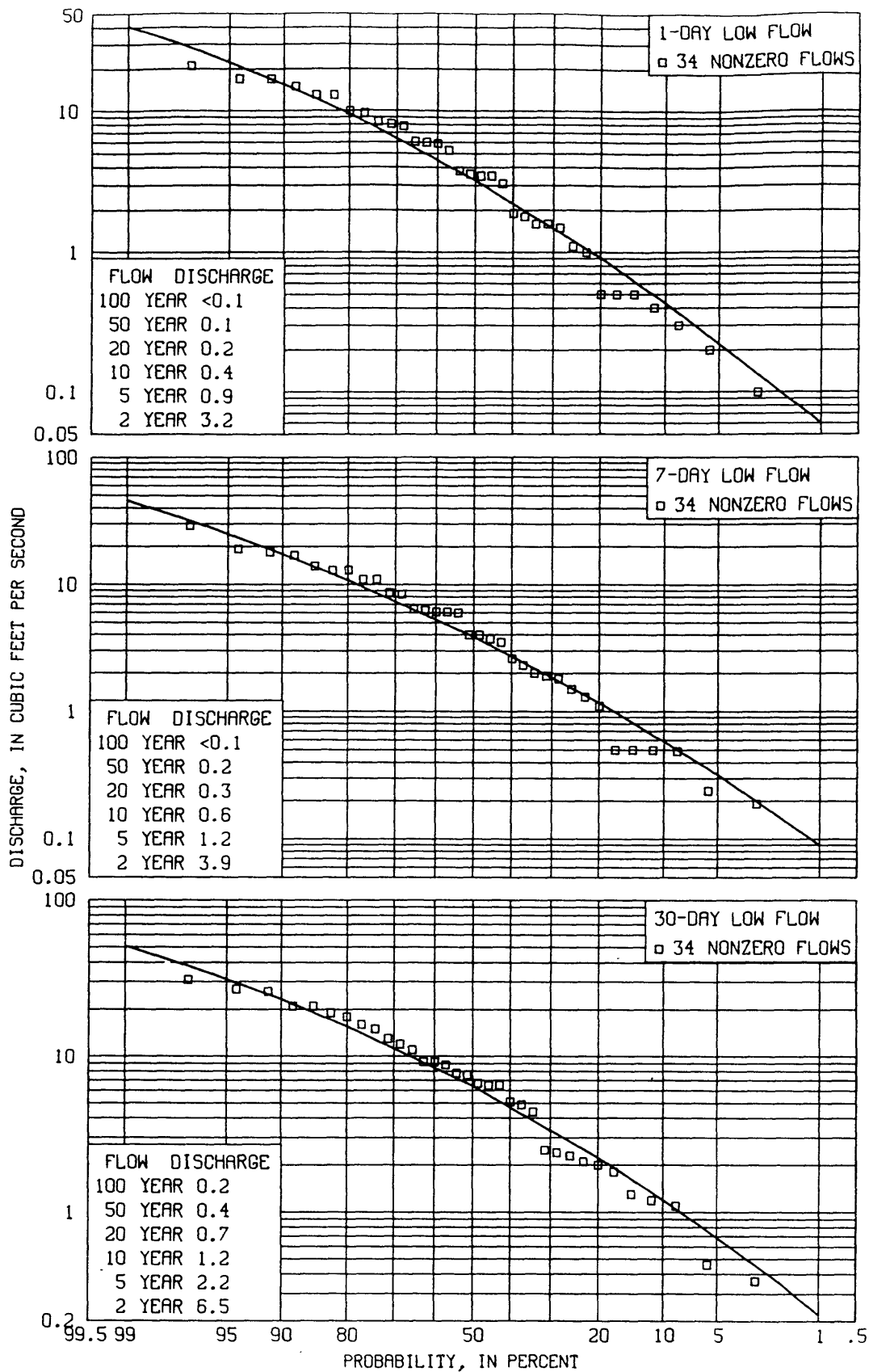
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 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



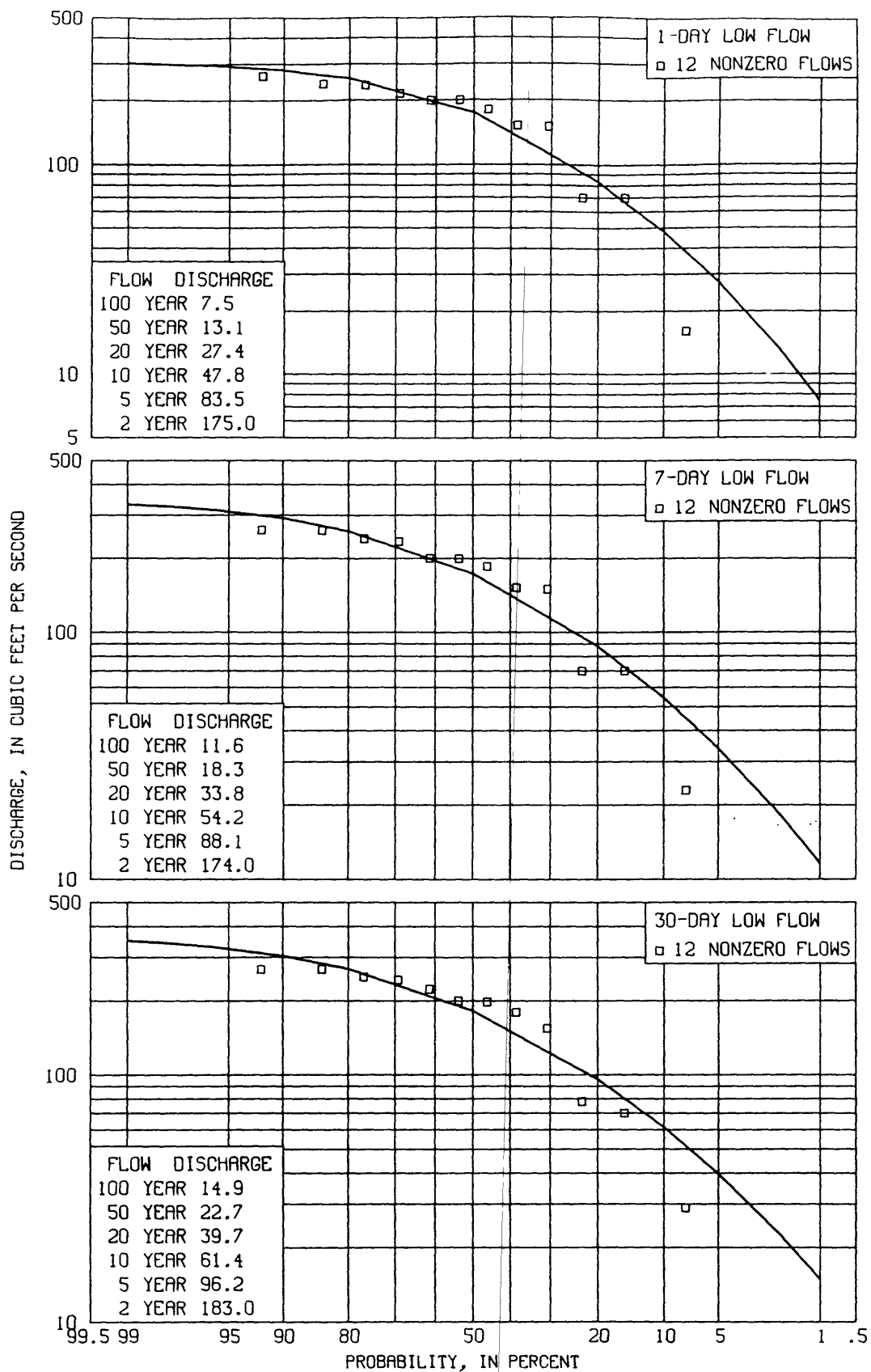
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 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



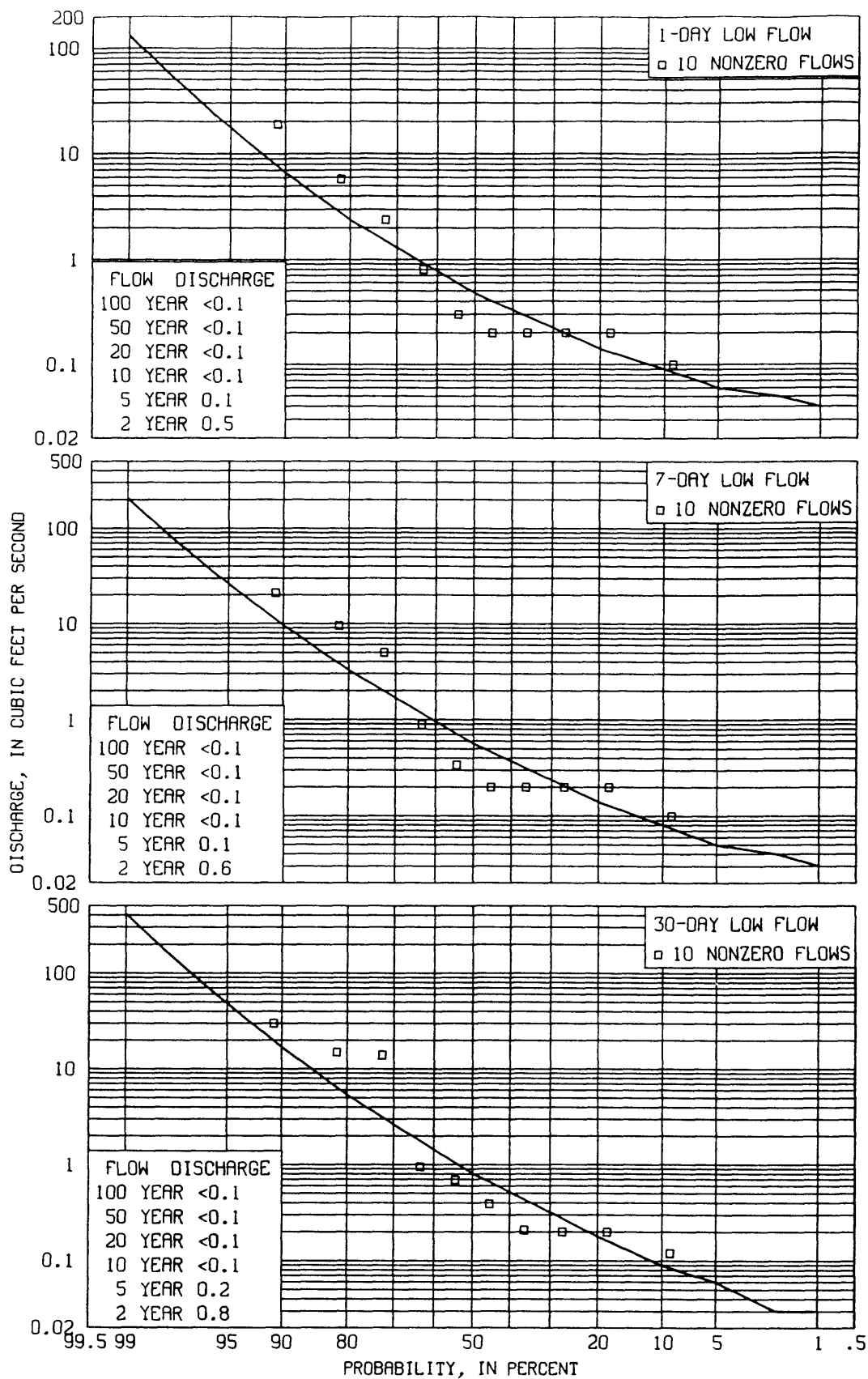
STATION 4024000 ST. LOUIS RIVER AT SCANLON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



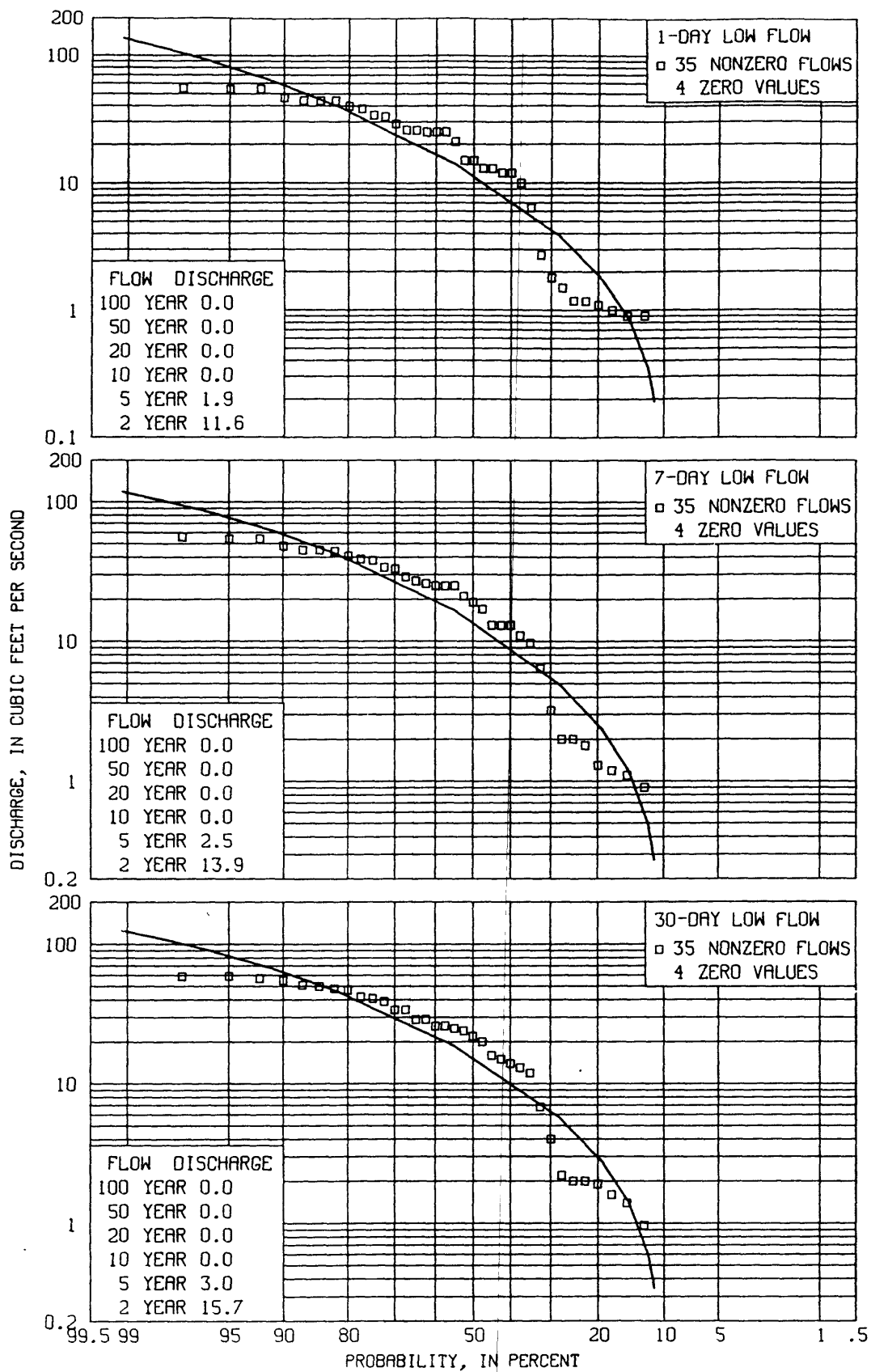
STATION 5030000 OTTER TAIL RIVER NEAR DETROIT LAKES
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



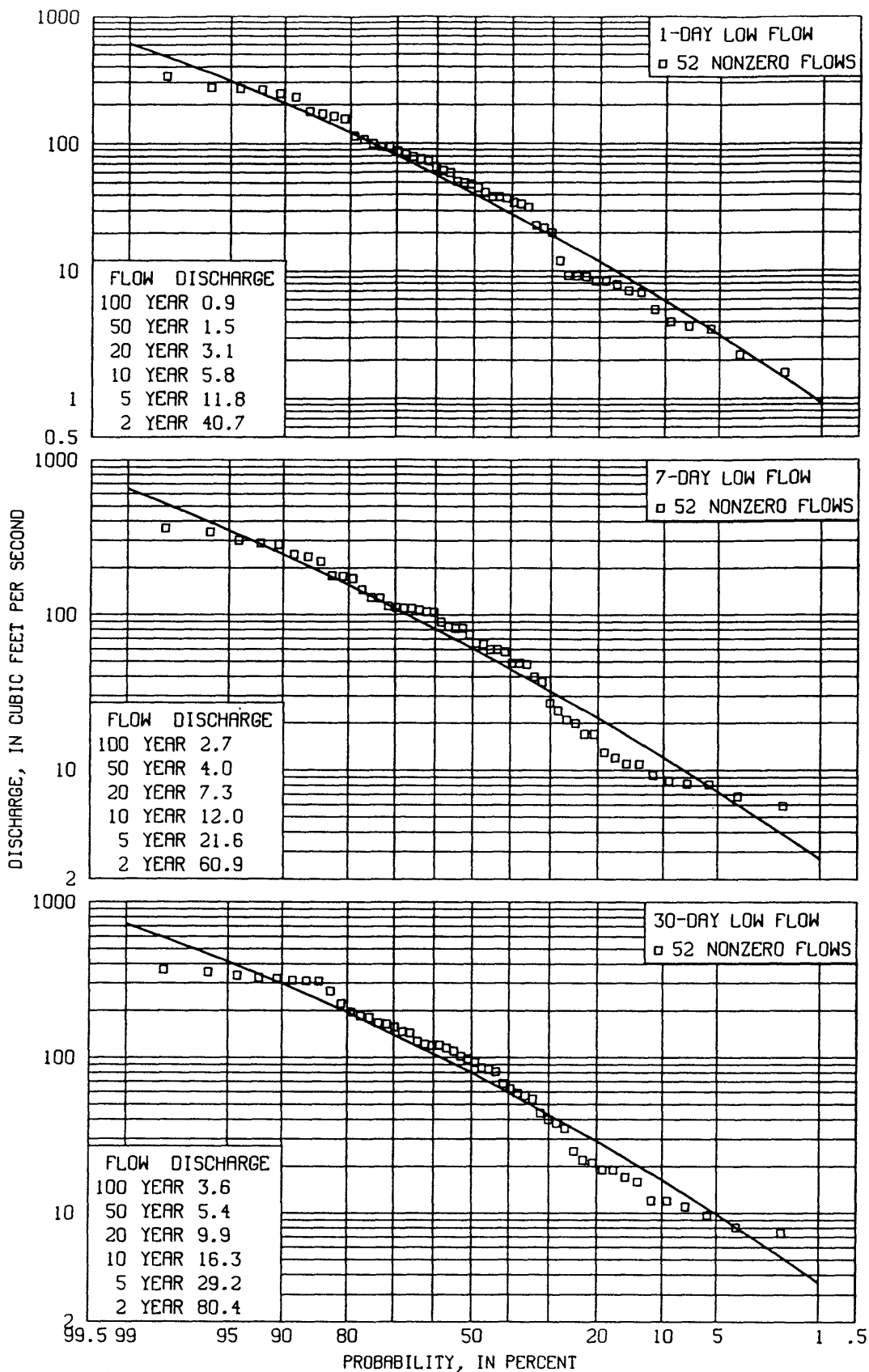
STATION 5030500 OTTER TAIL R AT GERMAN CHURCH NEAR FERGUS FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



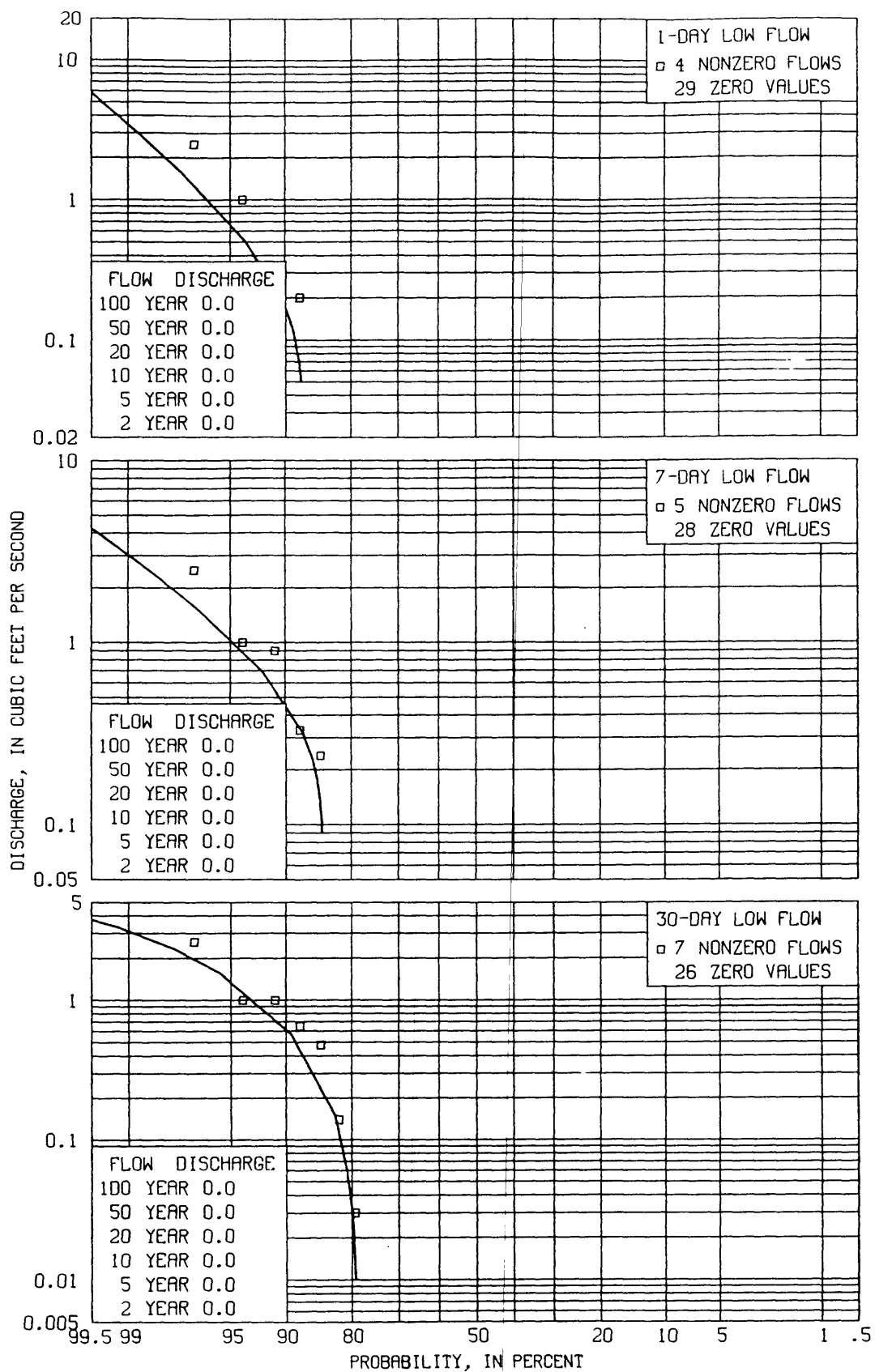
STATION 5040000 PELICAN RIVER NEAR DETROIT LAKES
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



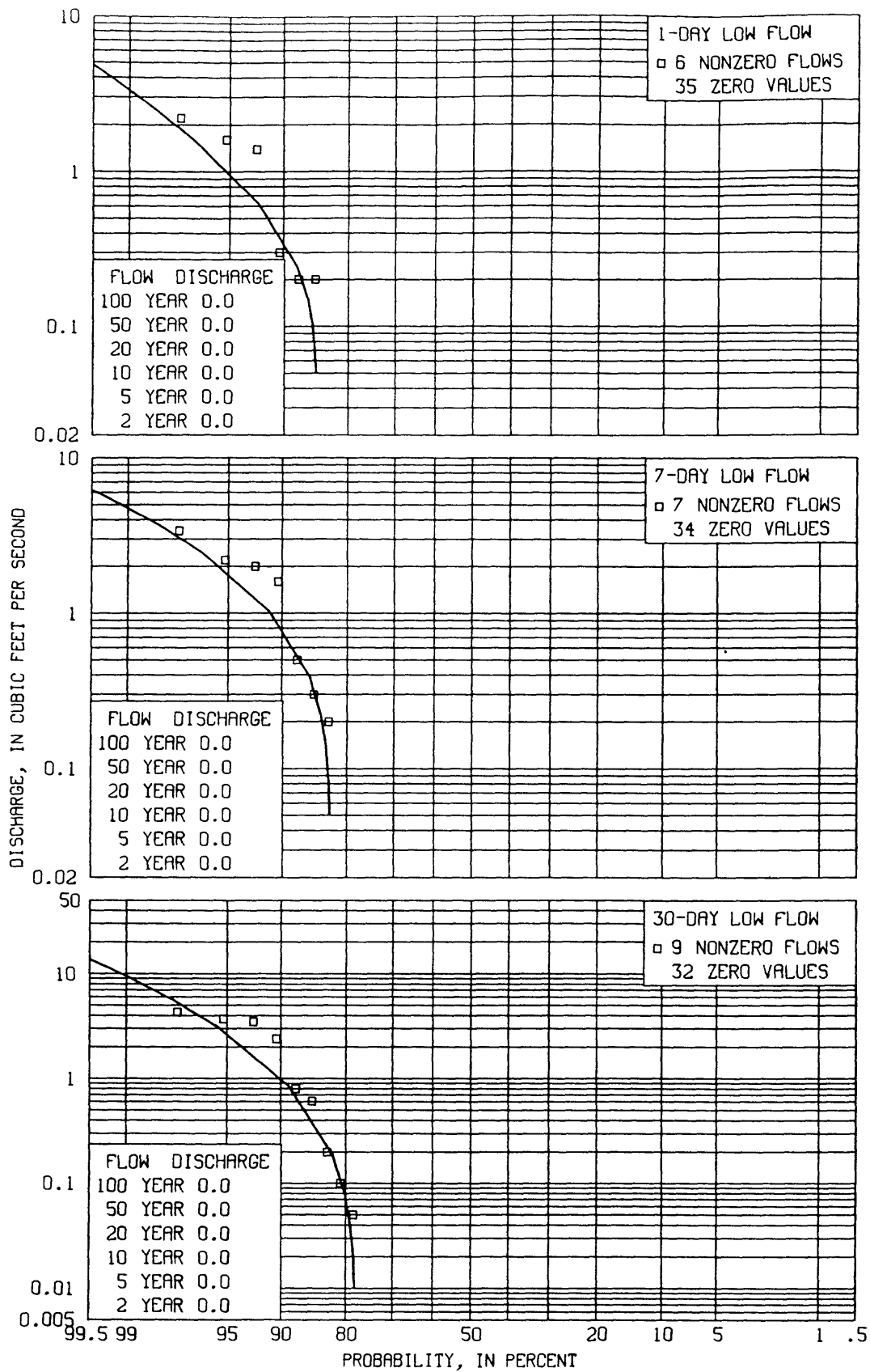
STATION 5040500 PELICAN RIVER NEAR FERGUS FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



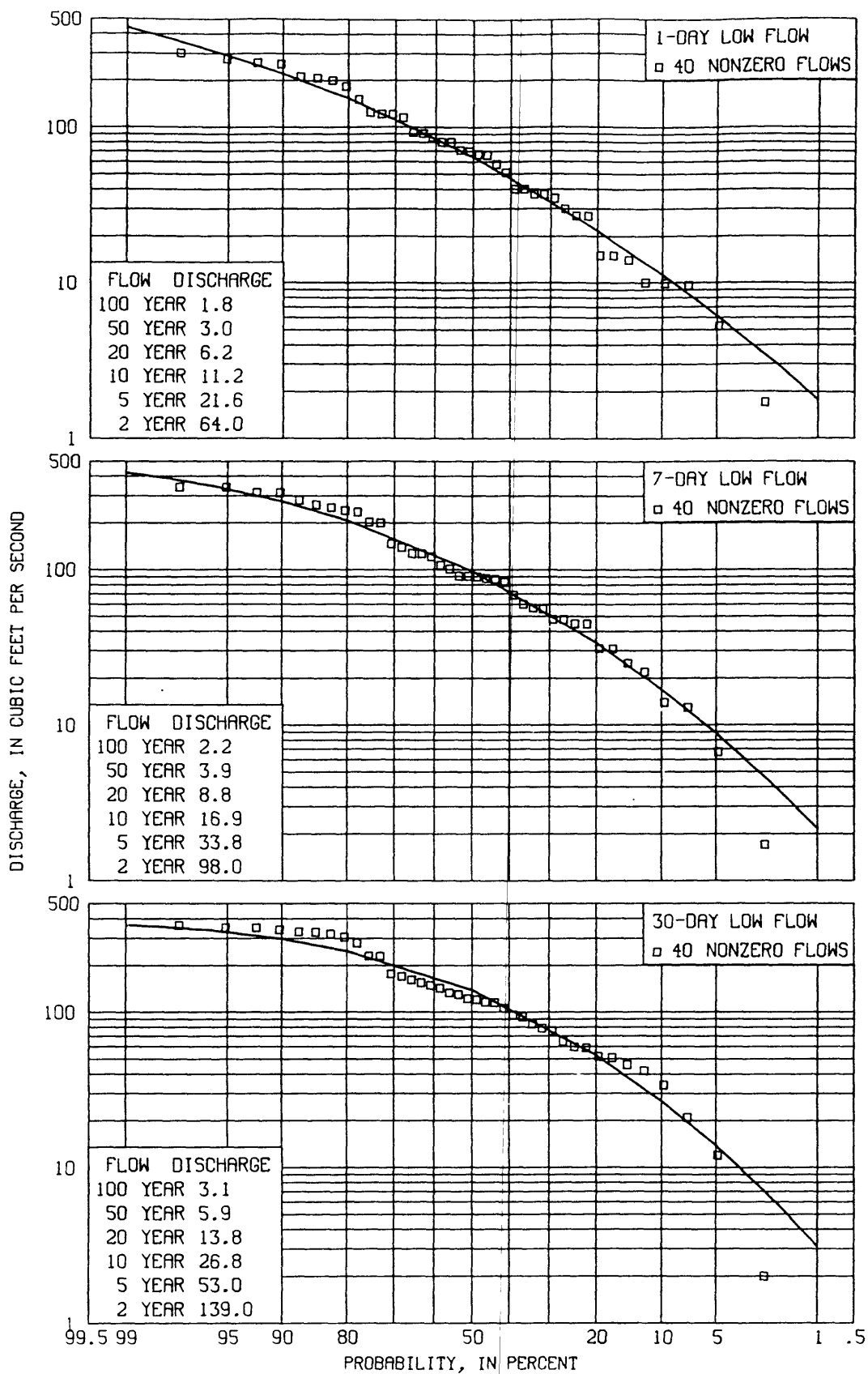
STATION 5046000 OTTER TAIL RIVER BELOW ORWELL DAM NR FERGUS FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



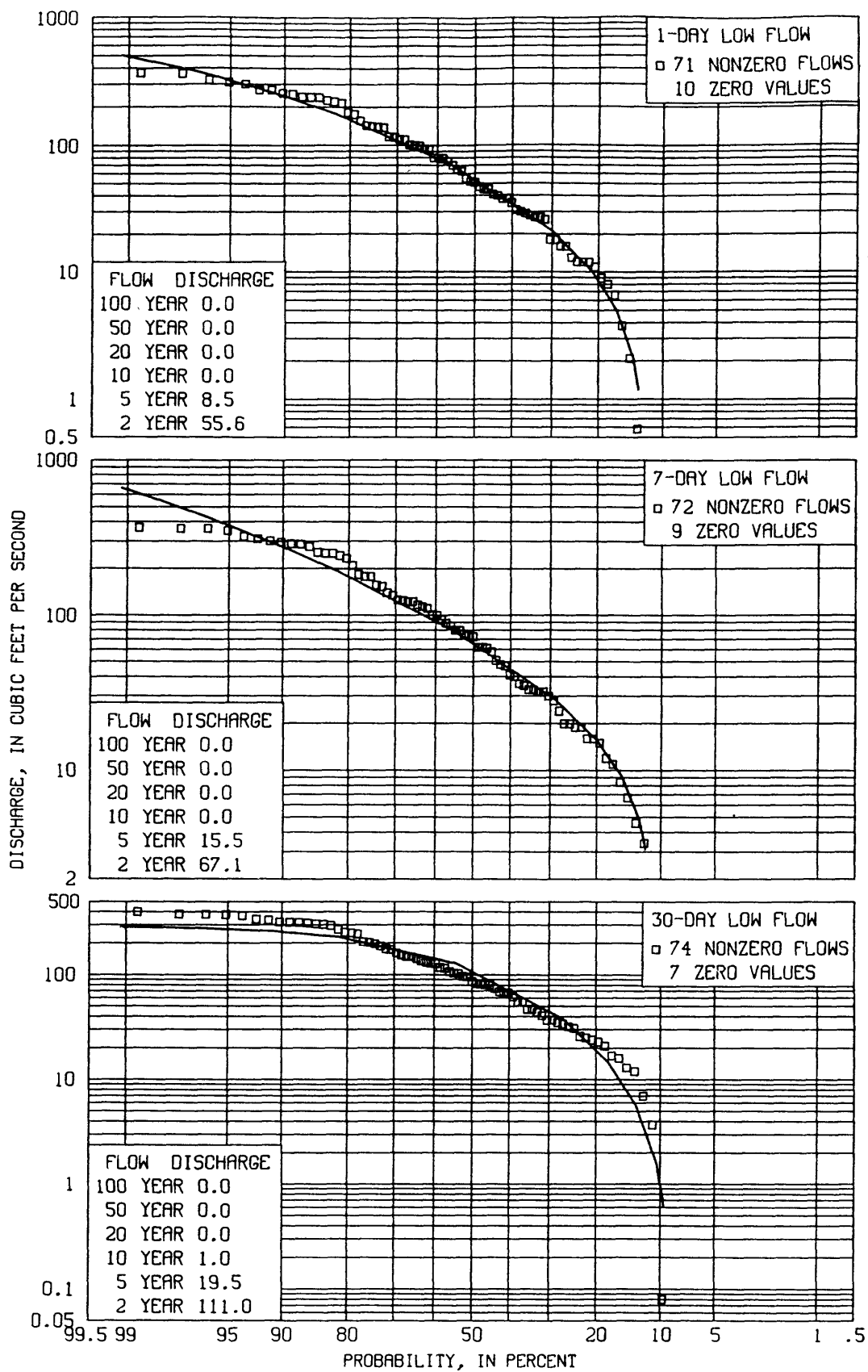
STATION 5049000 MUSTINKA RIVER ABOVE WHEATON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



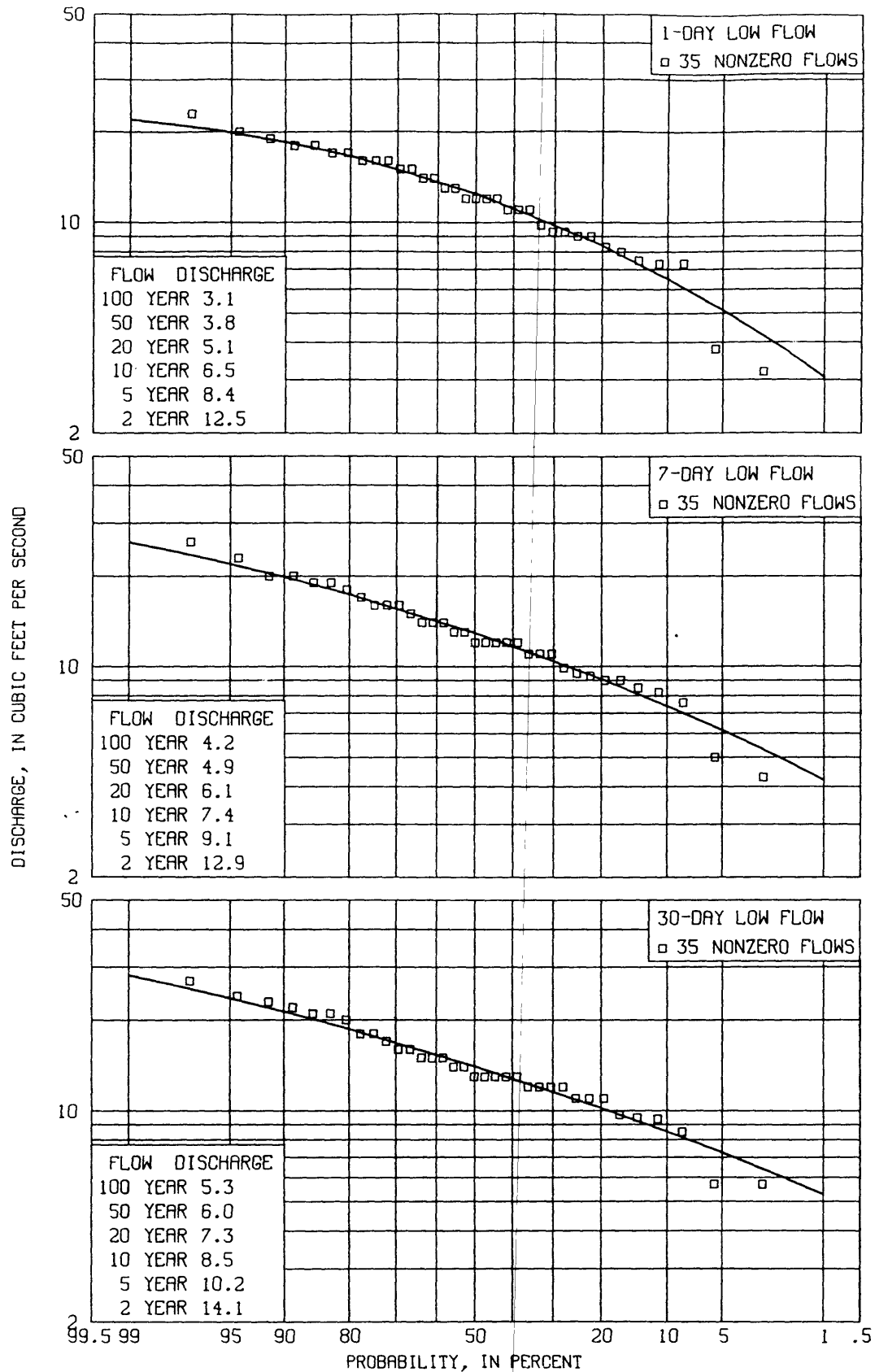
STATION 5050000 BOIS DE SIOUX RIVER NEAR WHITE ROCK, SD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



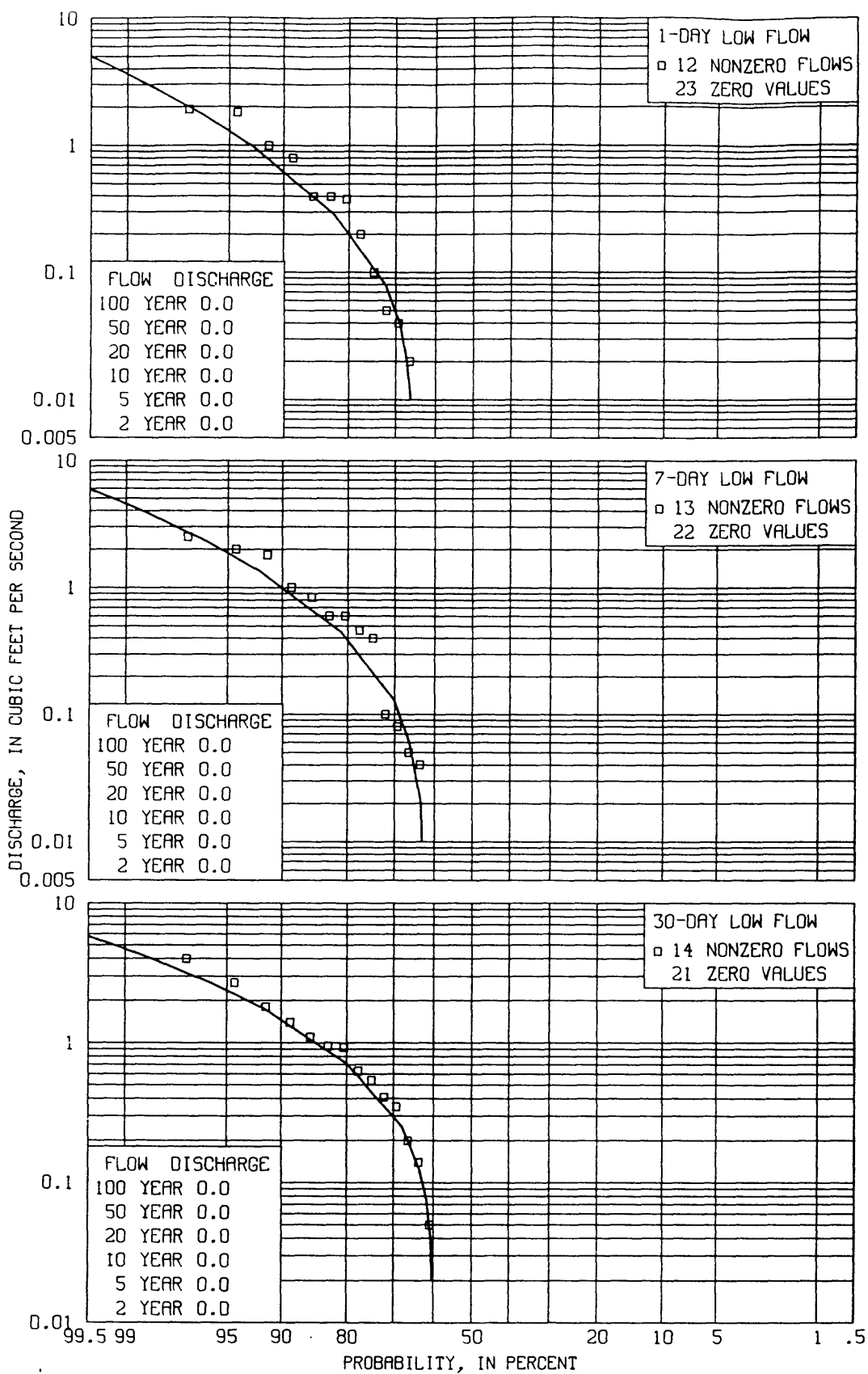
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 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



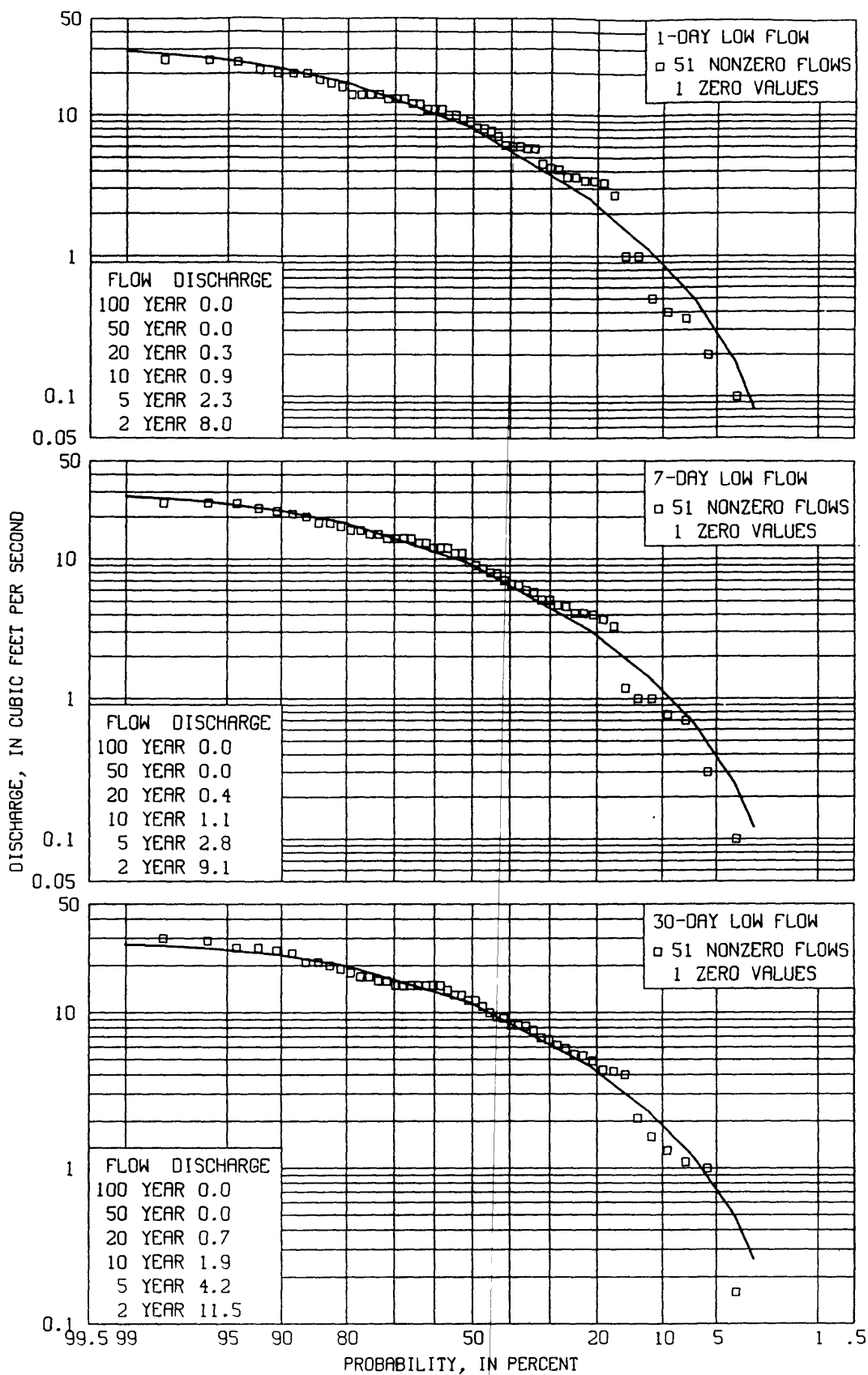
STATION 5054000 RED RIVER OF THE NORTH AT FARGO, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



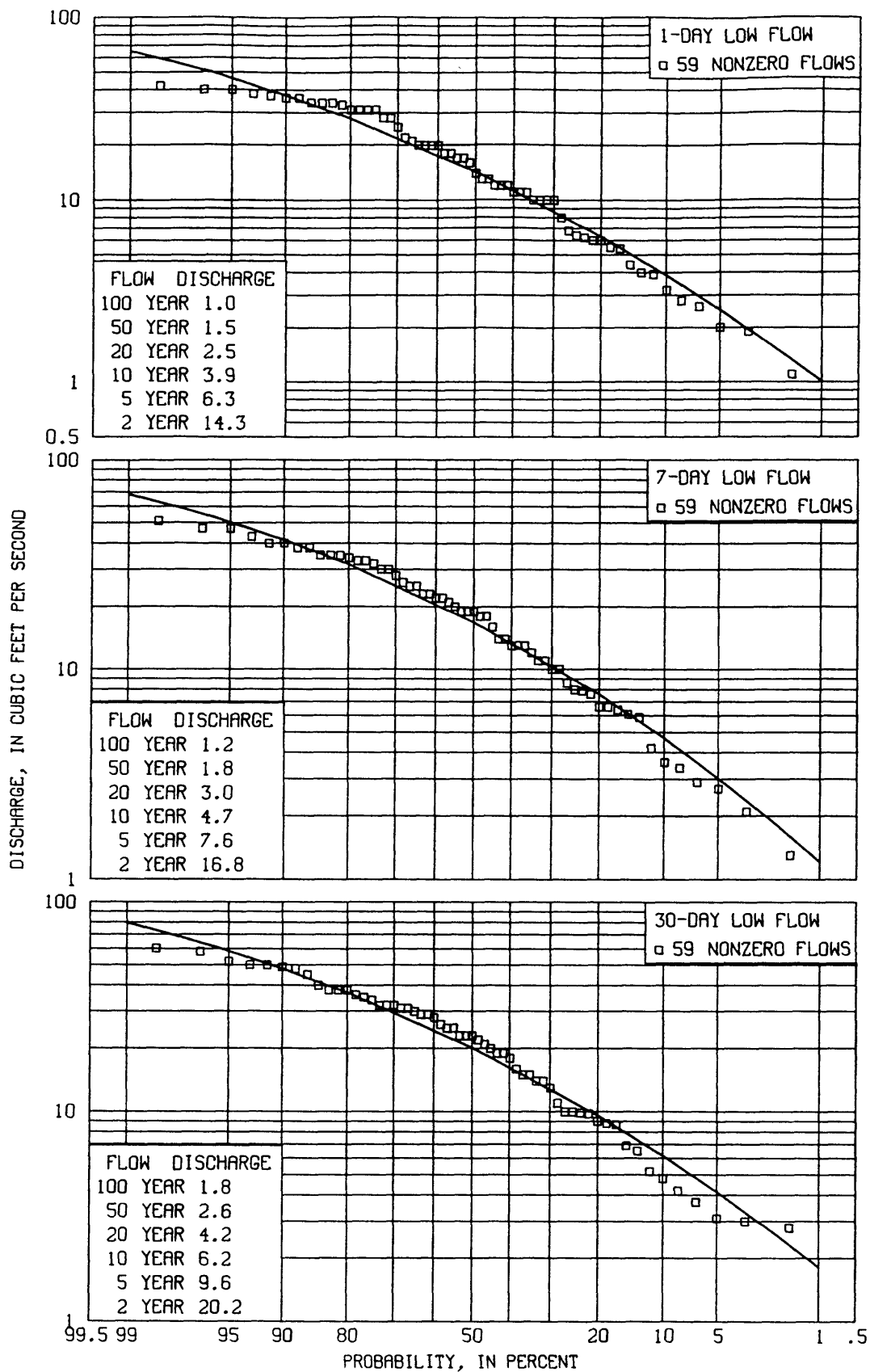
STATION 5061000 BUFFALO RIVER NEAR HAWLEY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



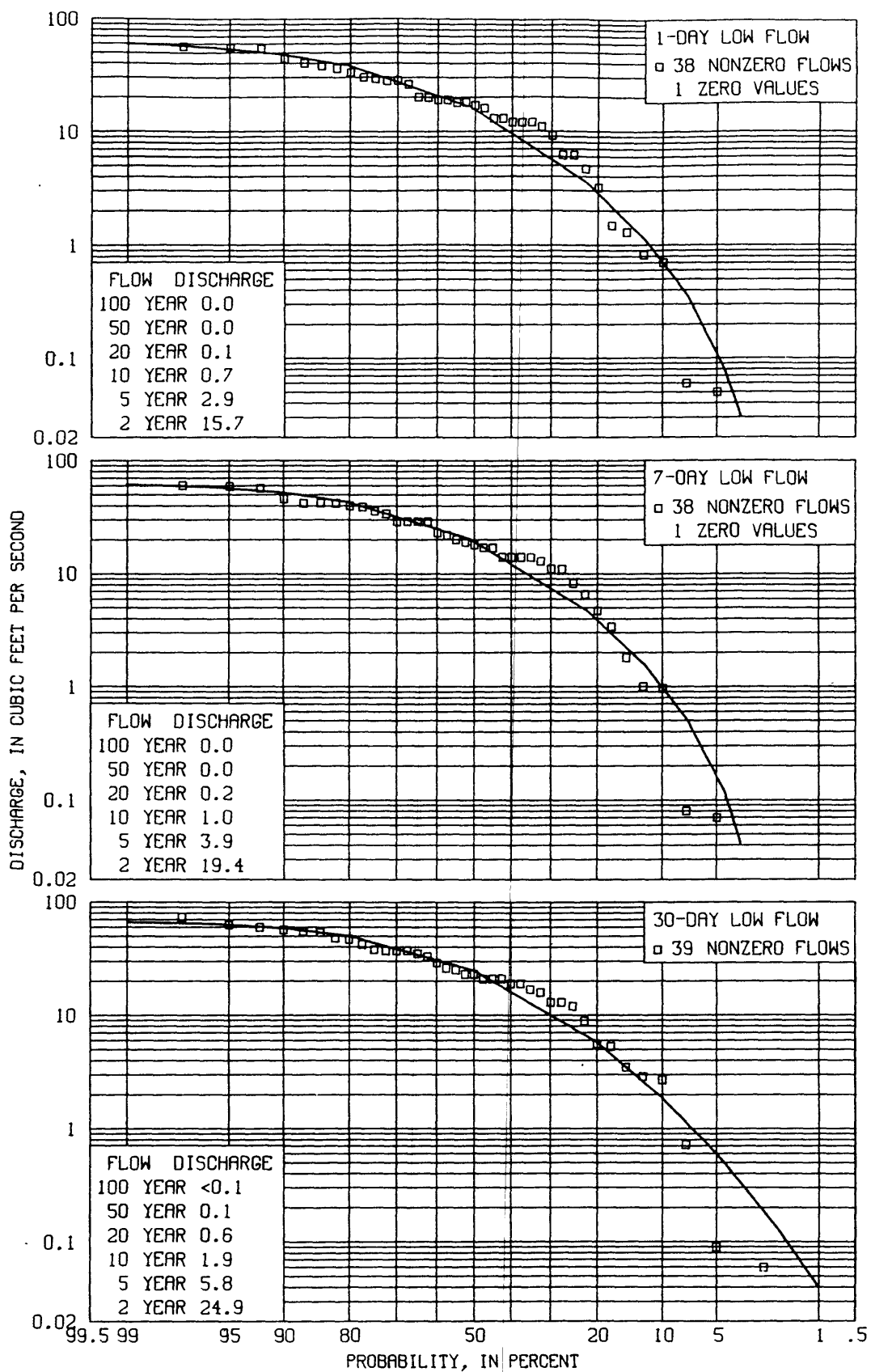
STATION 5061500 SOUTH BRANCH BUFFALO RIVER AT SABIN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



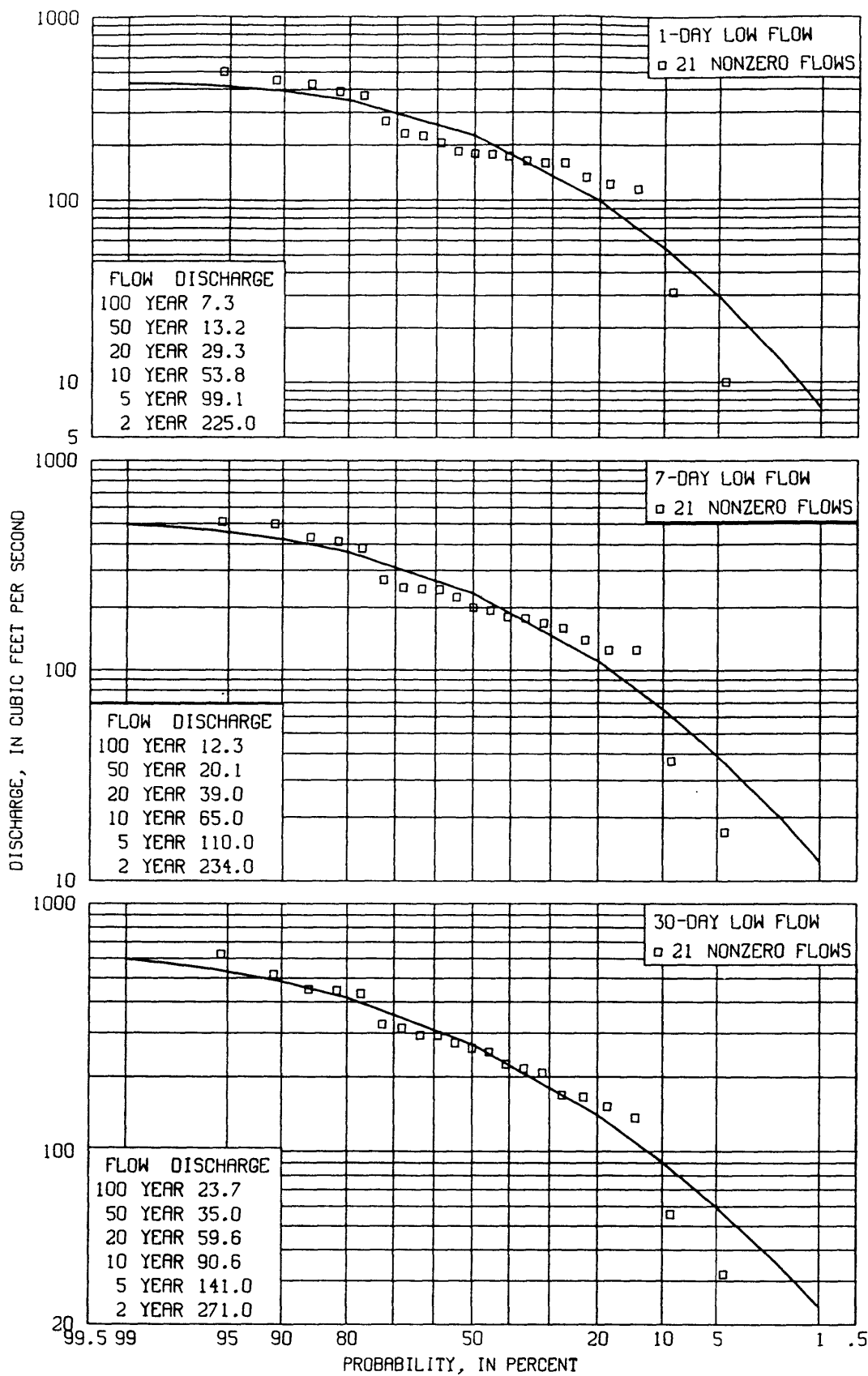
STATION 5062000 BUFFALO RIVER NEAR DILWORTH
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



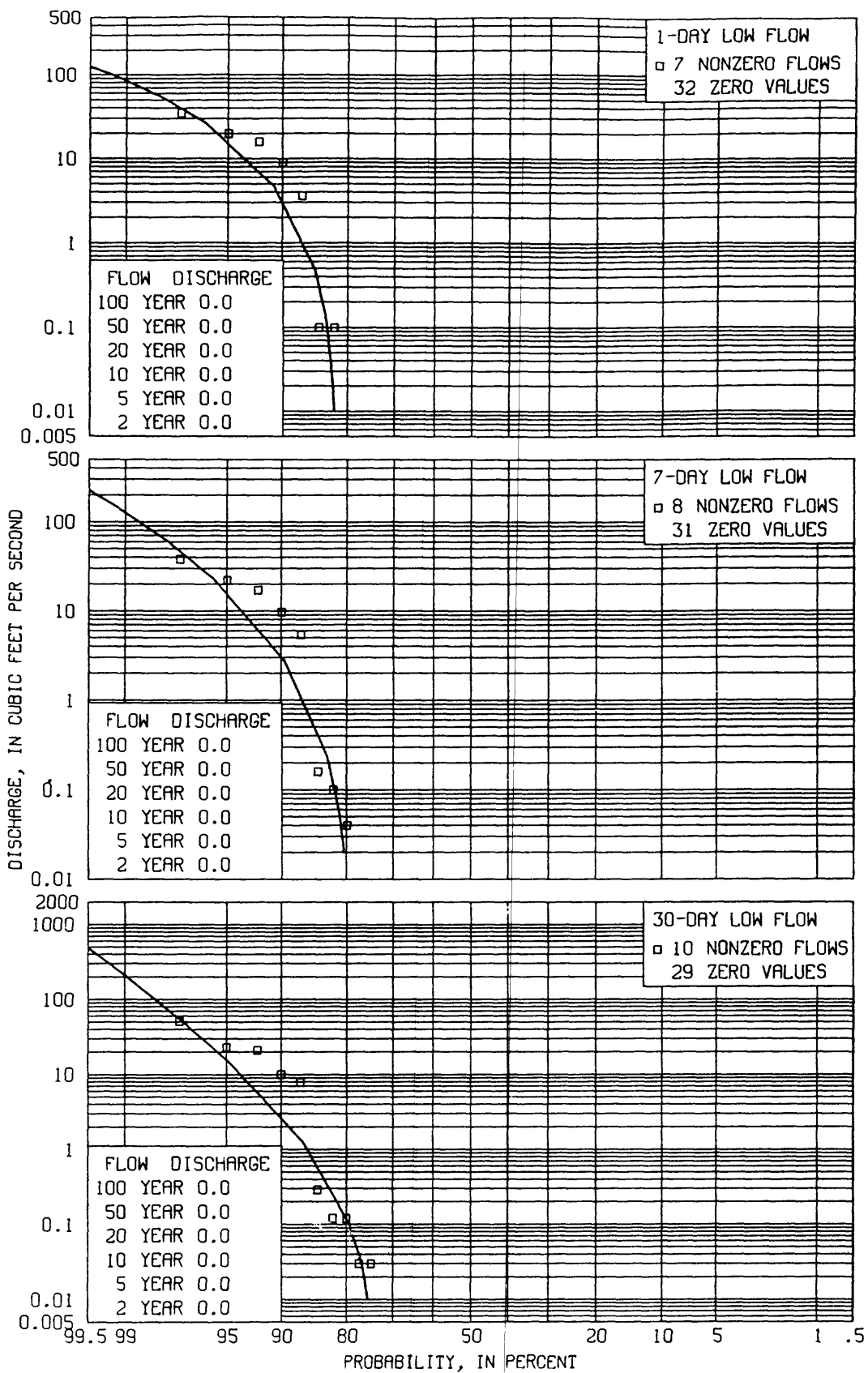
STATION 5062500 WILD RICE RIVER AT TWIN VALLEY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



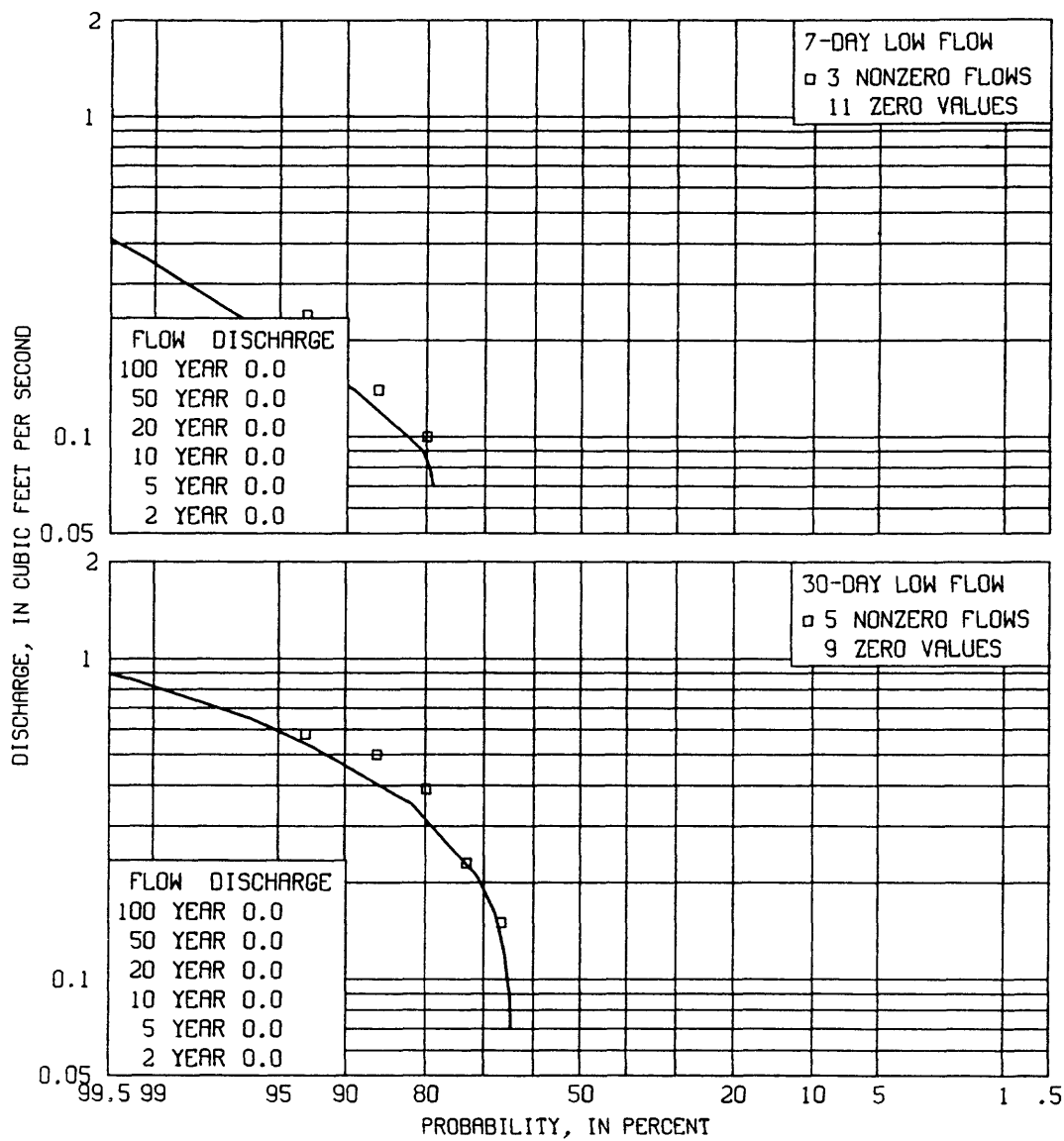
STATION 5064000 WILD RICE RIVER AT HENDRUM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



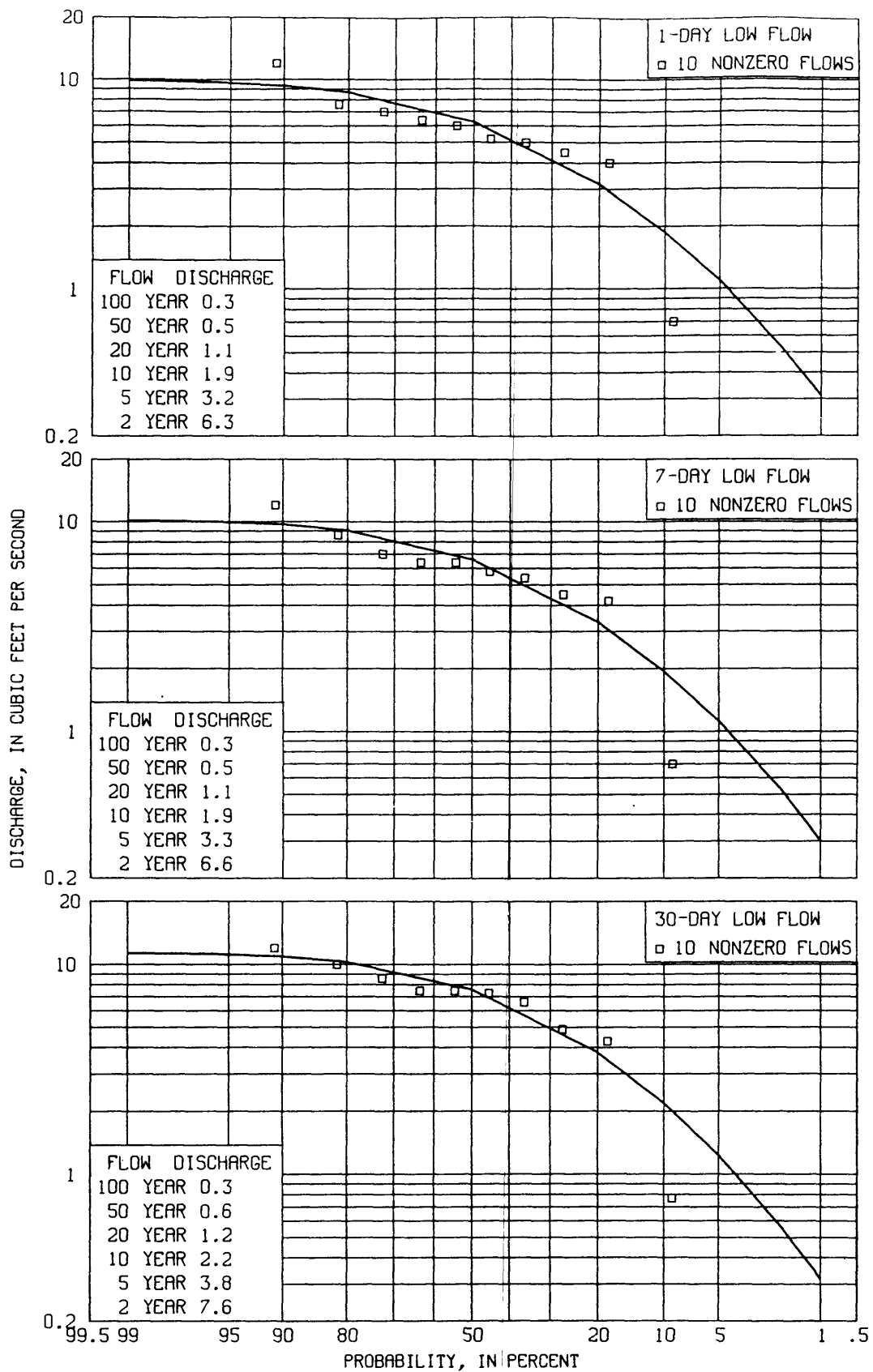
STATION 5064500 RED RIVER OF THE NORTH AT HALSTAD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



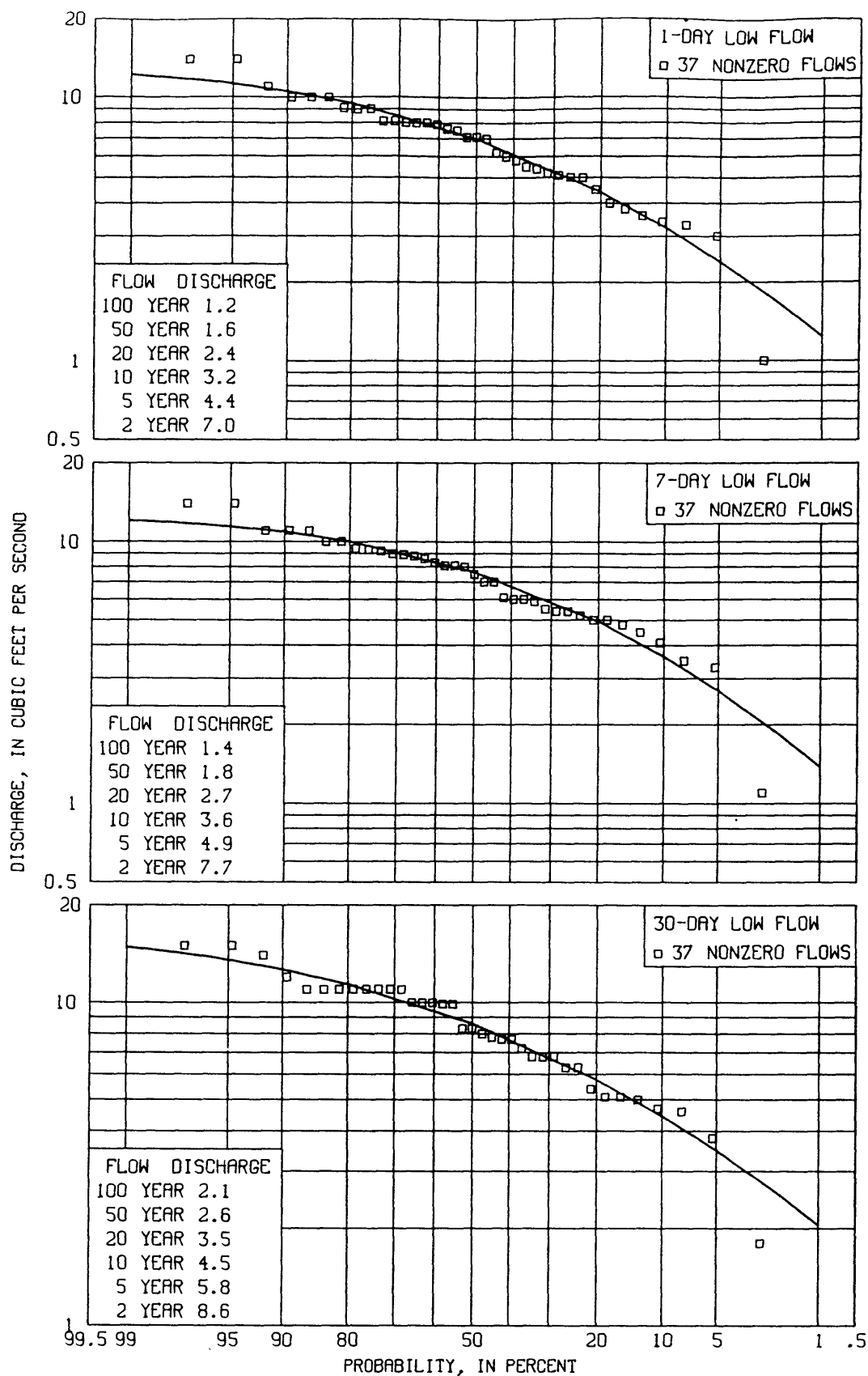
STATION 5067500 MARSH RIVER NEAR SHELLY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



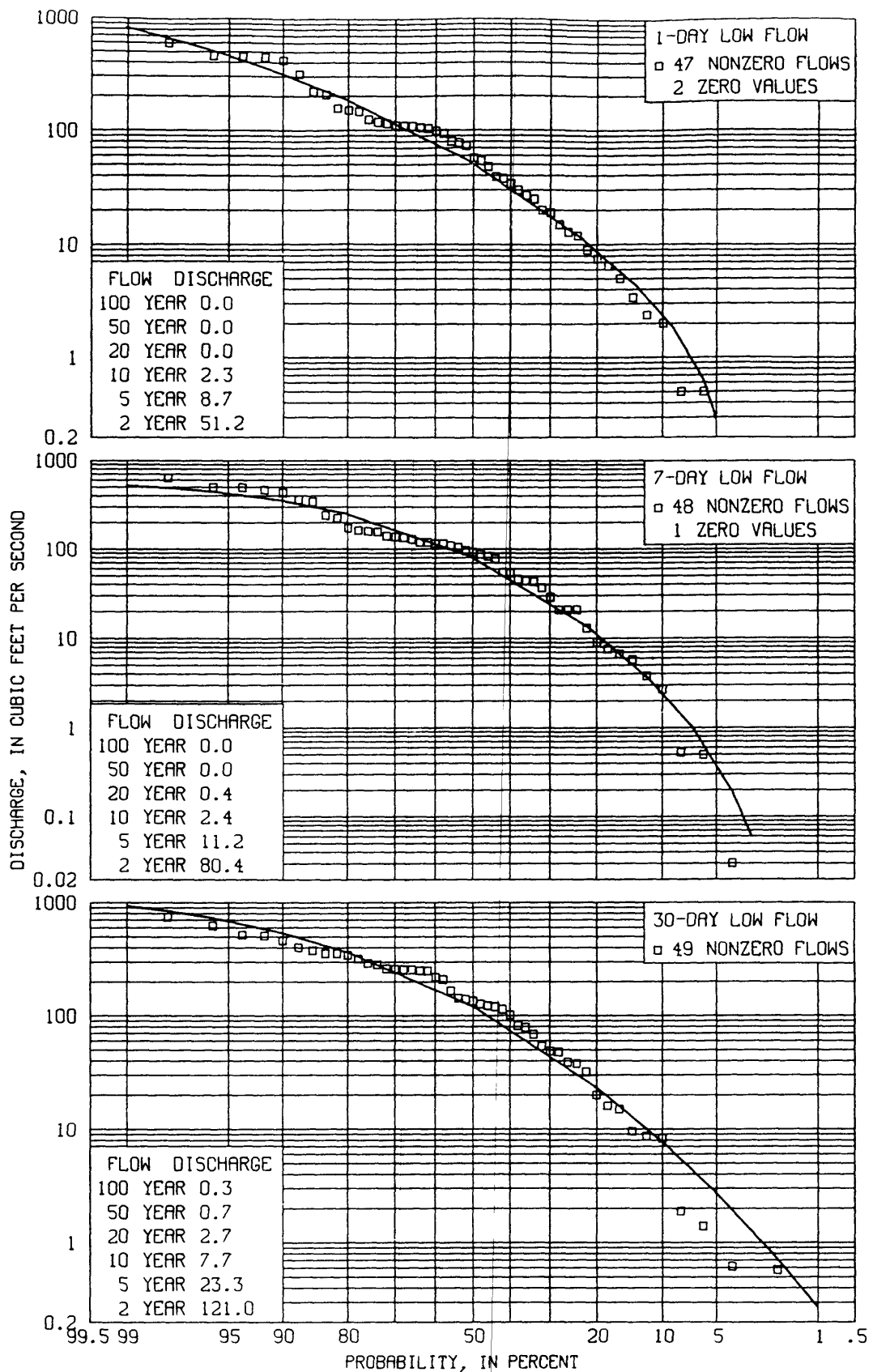
STATION 5068000 SAND HILL RIVER AT BELTRAMI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



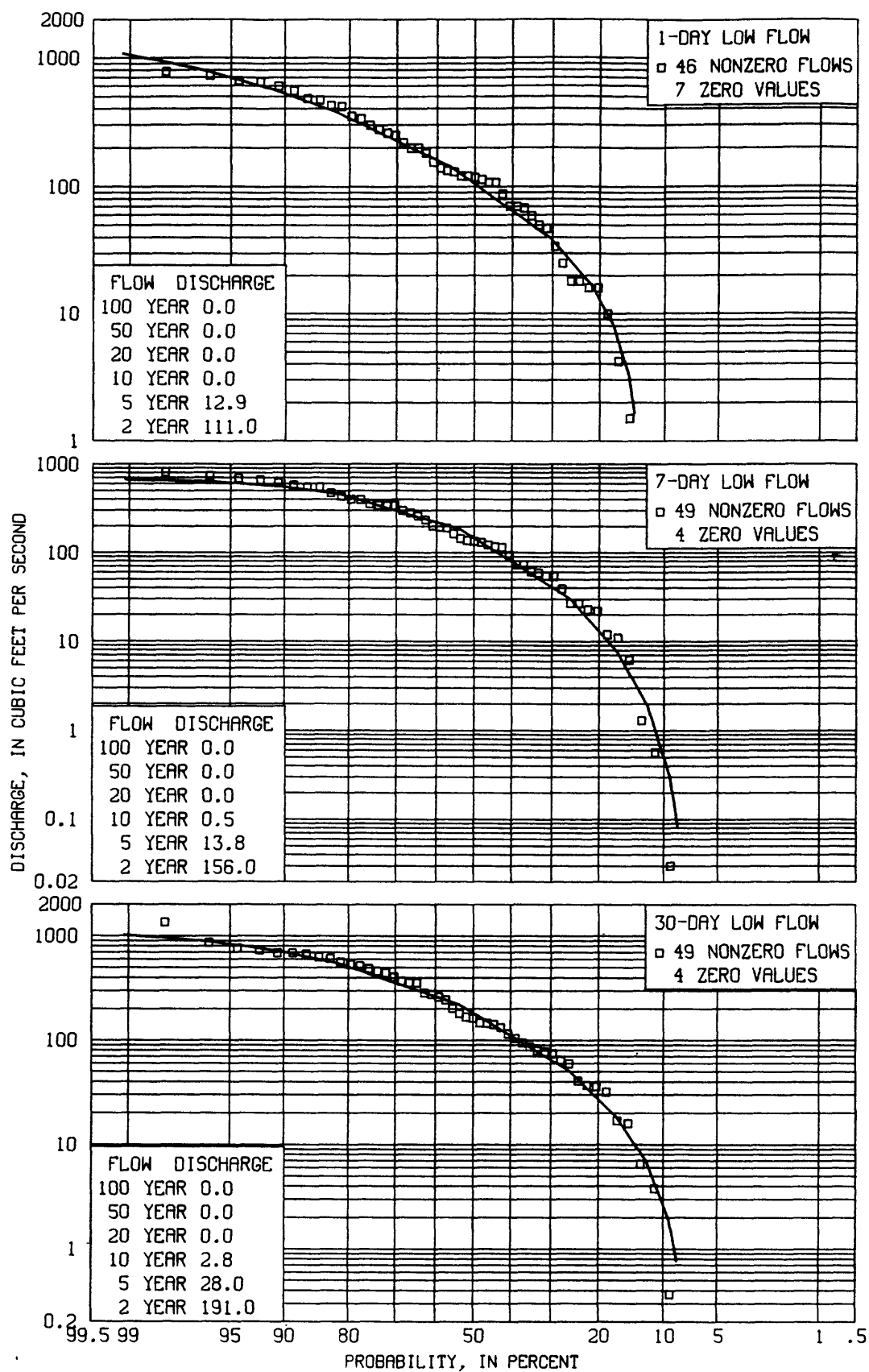
STATION 5068500 SAND HILL DITCH AT BELTRAMI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



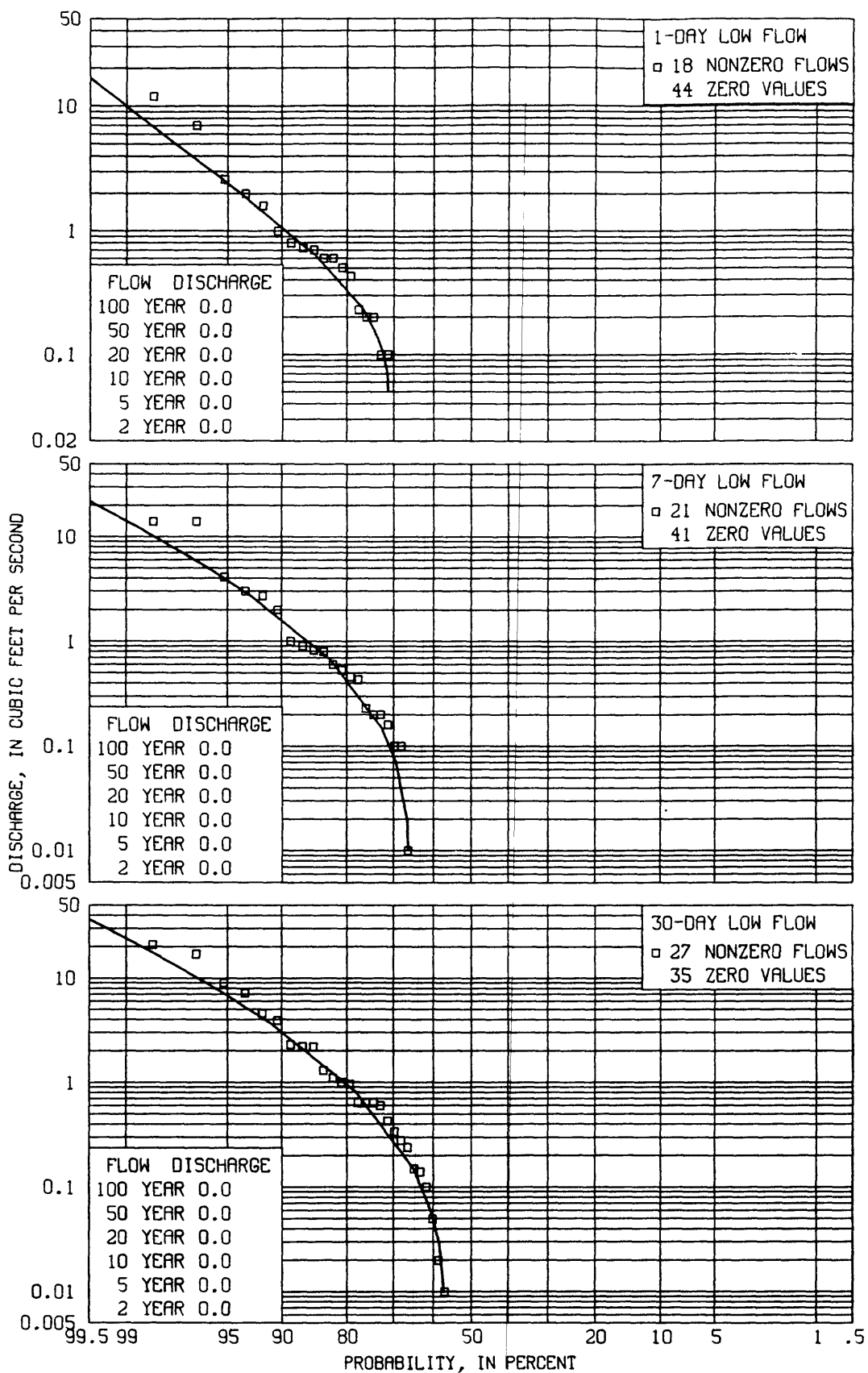
STATION 5069000 SAND HILL RIVER AT CLIMAX
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



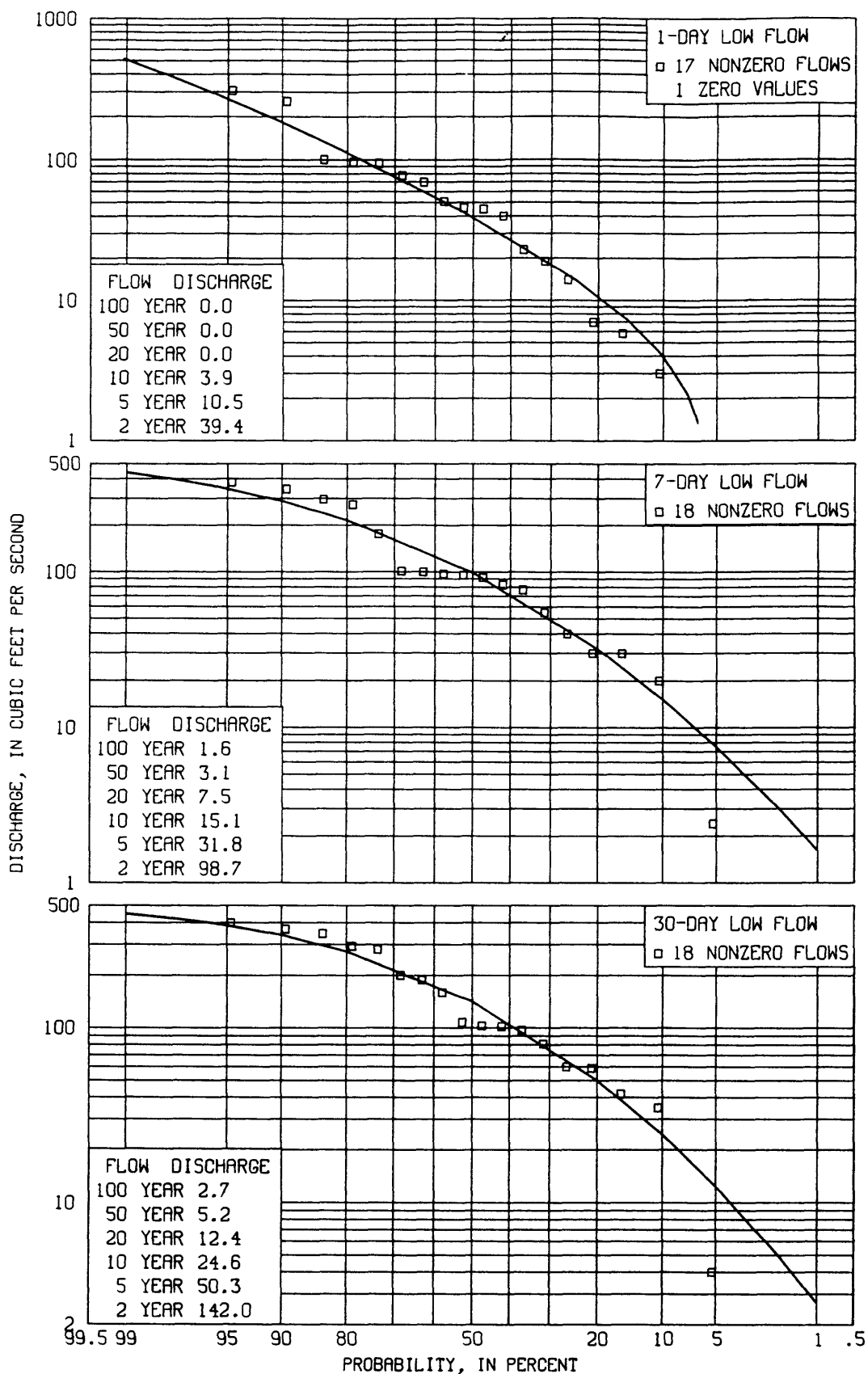
STATION 5074500 RED LAKE RIVER NEAR RED LAKE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



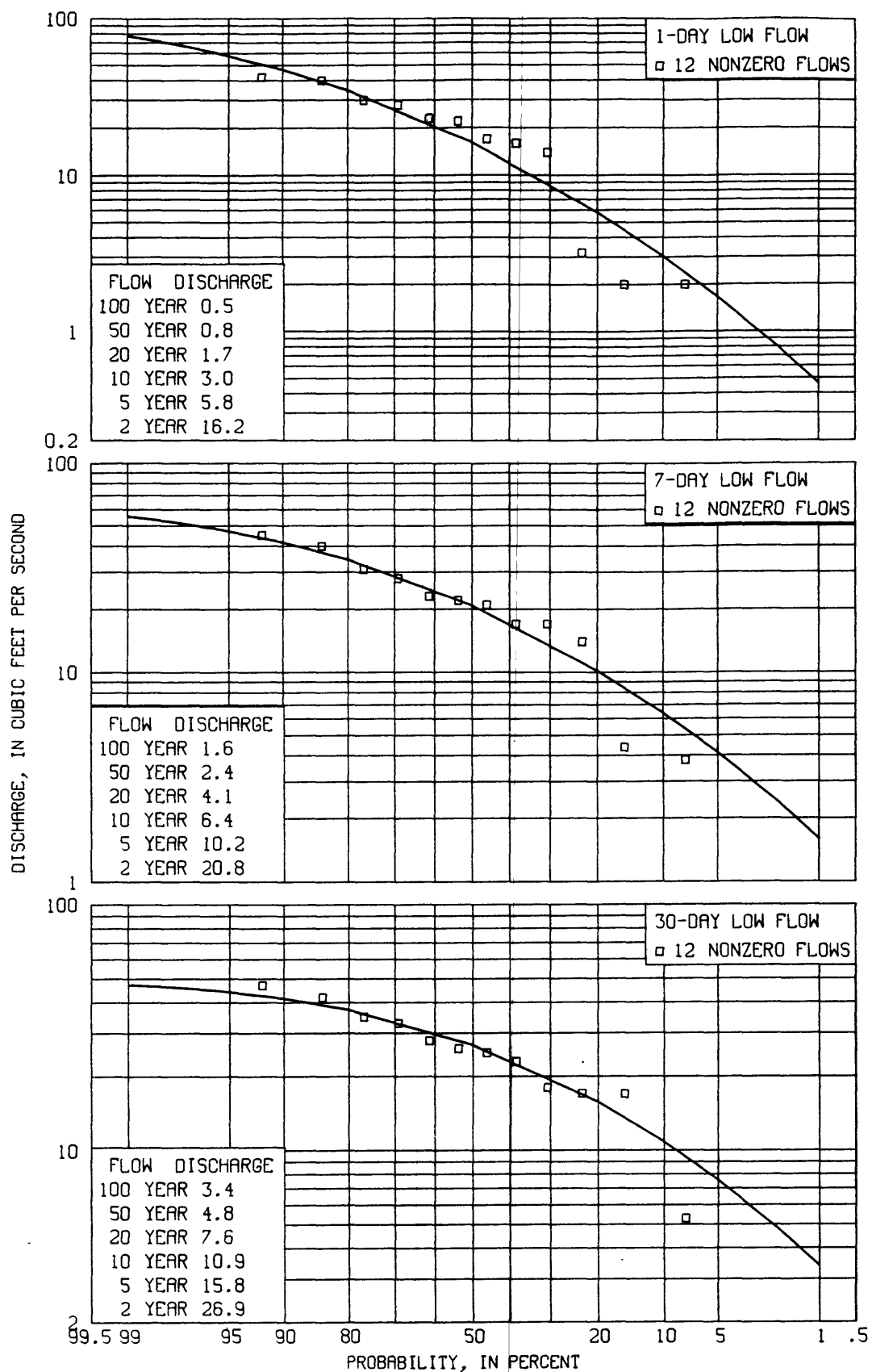
STATION 5075000 RED LAKE RIVER AT HIGH LANDING NR GOODRIDGE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



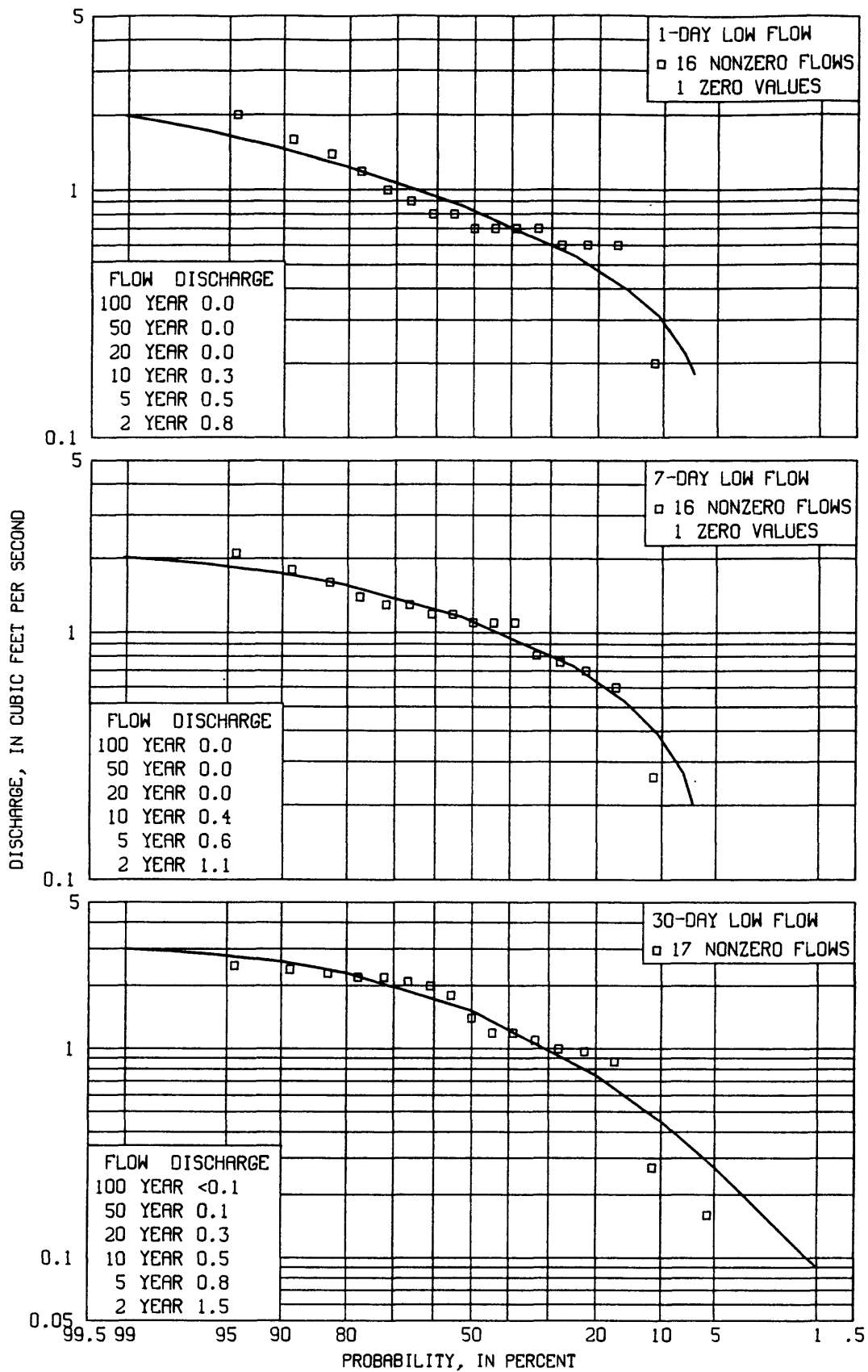
STATION 5076000 THIEF RIVER NEAR THIEF RIVER FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



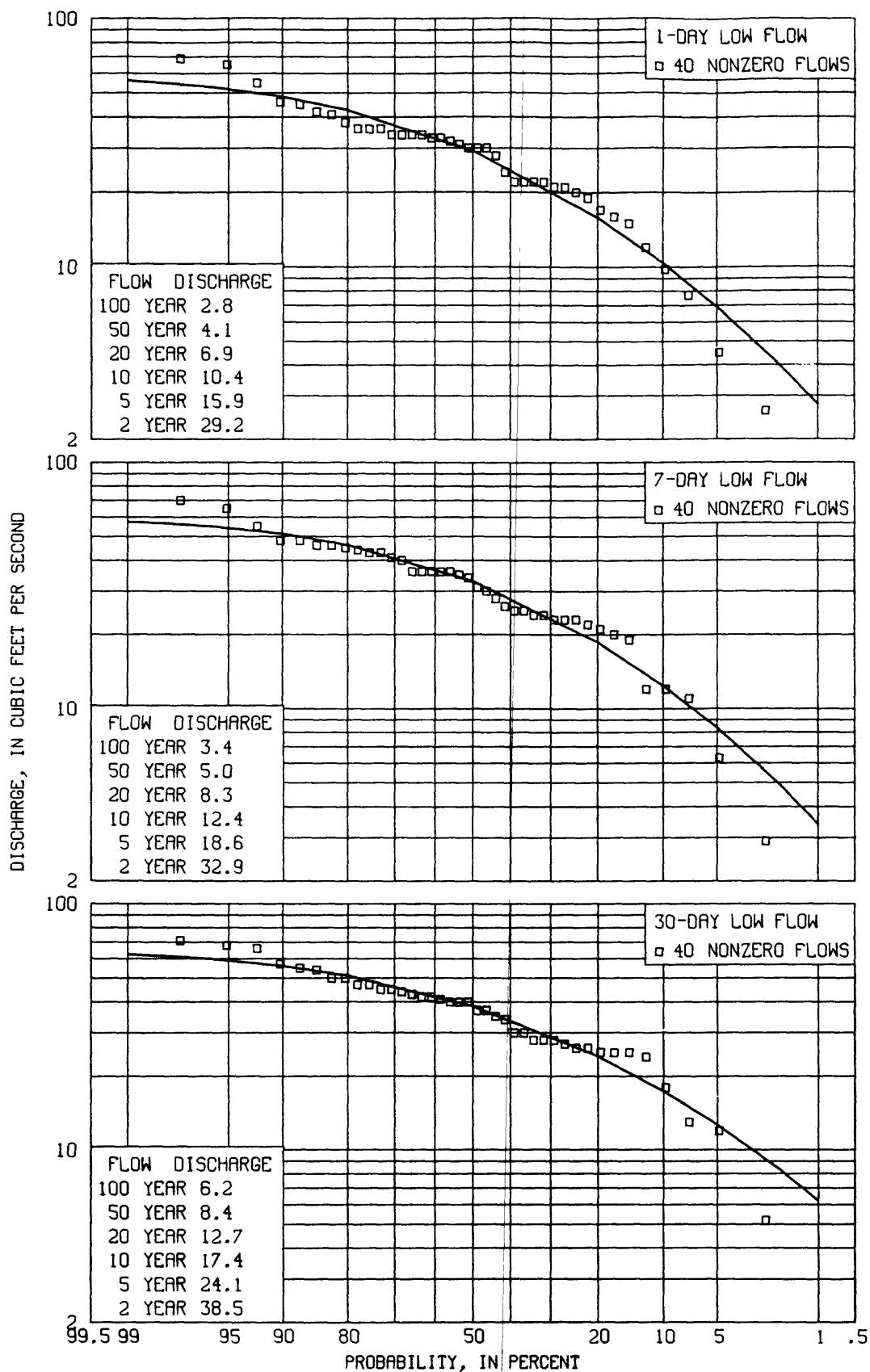
STATION 5076500 RED LAKE RIVER AT THIEF RIVER FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



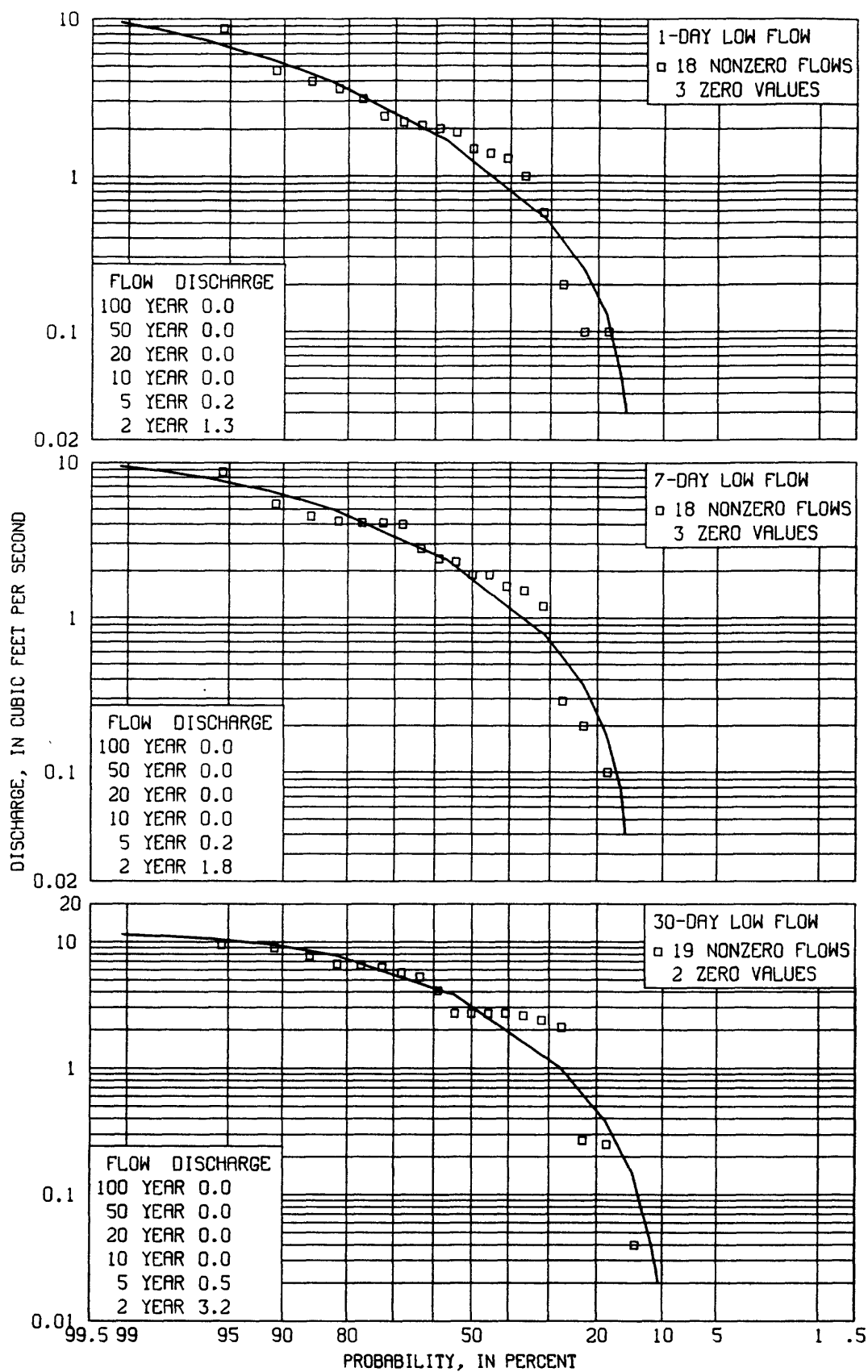
STATION 5077500 CLEARWATER RIVER NEAR LEONARD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



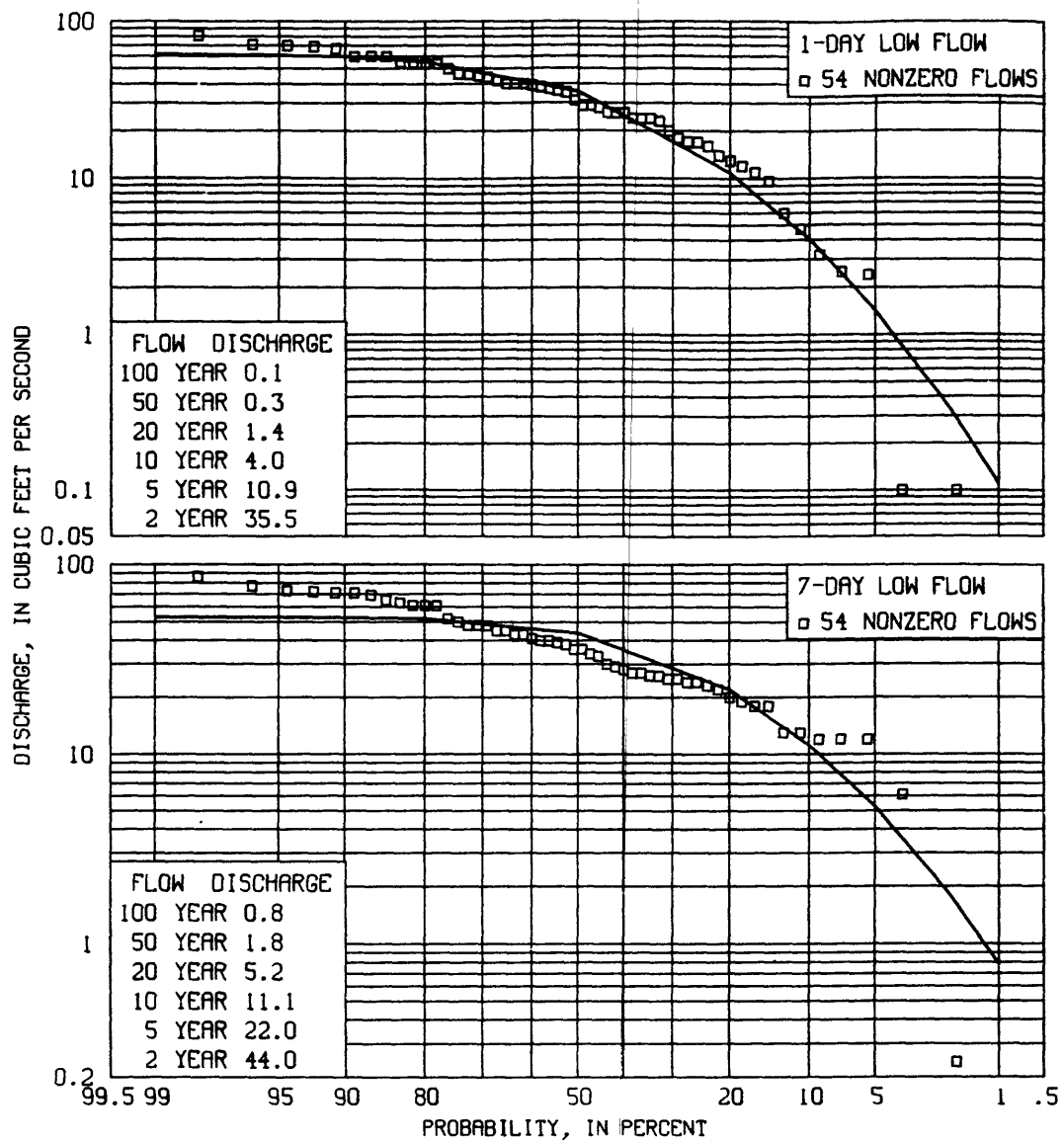
STATION 5077700 RUFFY BROOK NEAR GONVICK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



STATION 5078000 CLEARWATER RIVER AT PLUMMER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31

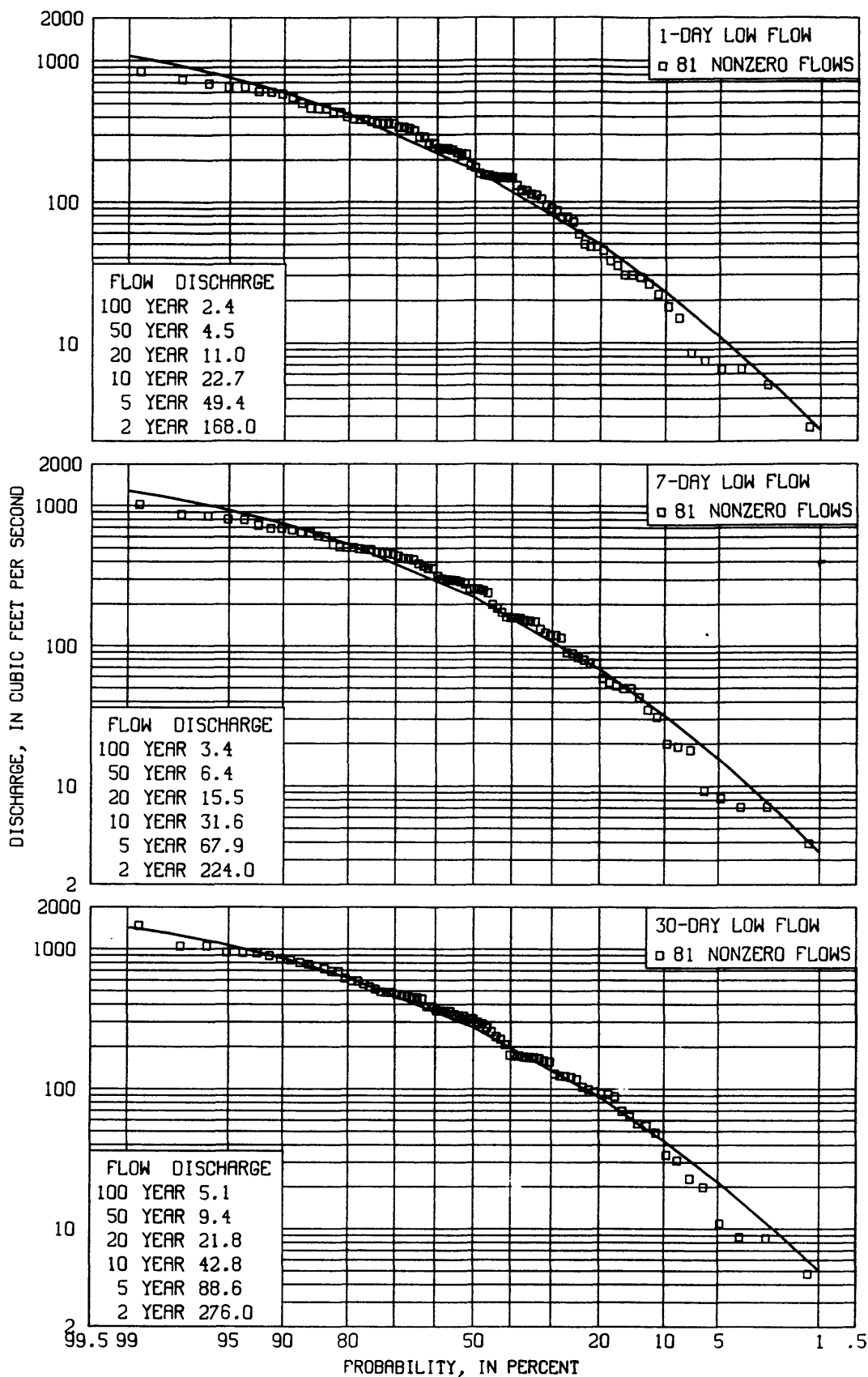


STATION 5078230 LOST RIVER AT OKLEE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31

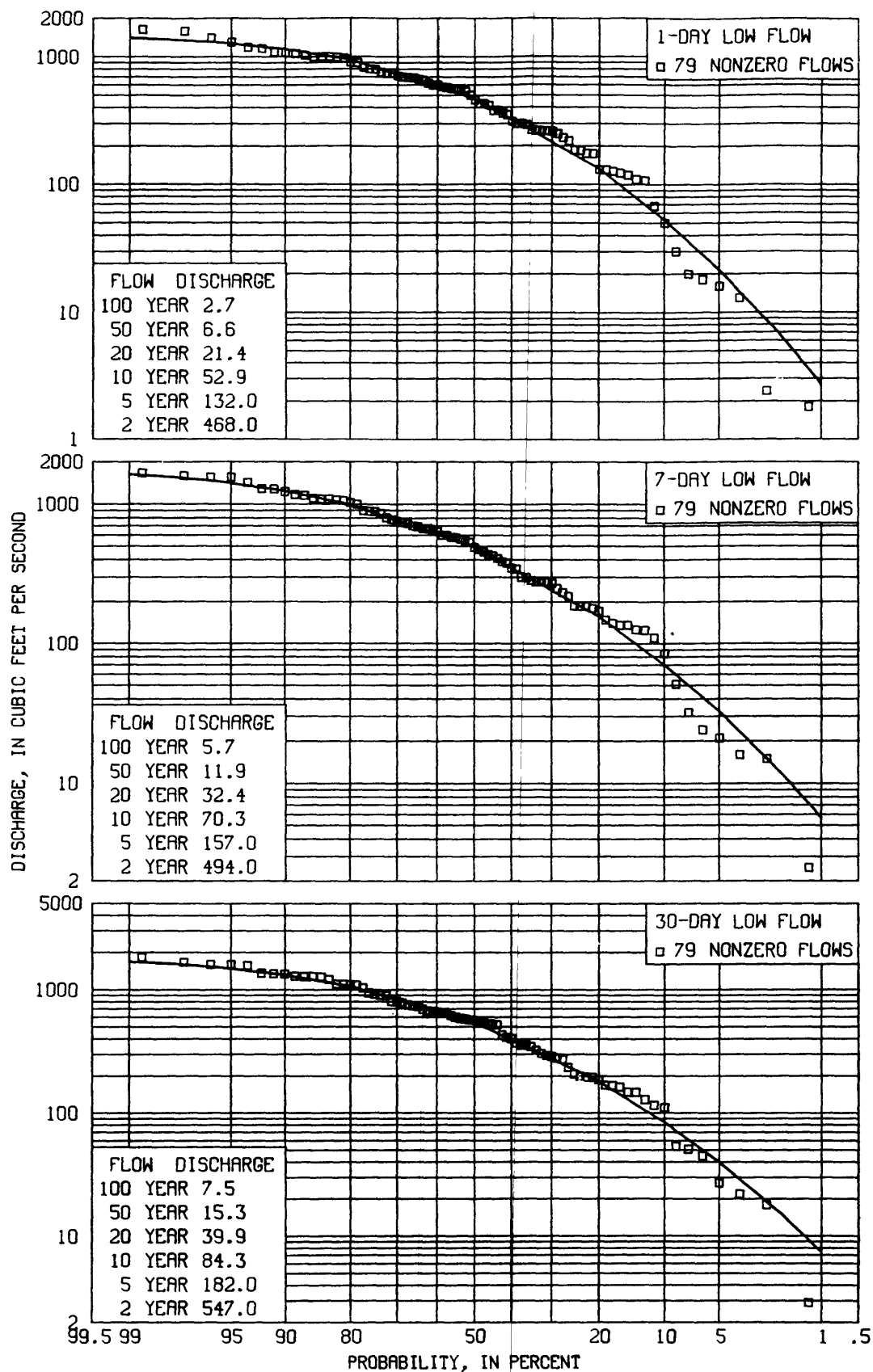


PROBABILITY, IN PERCENT

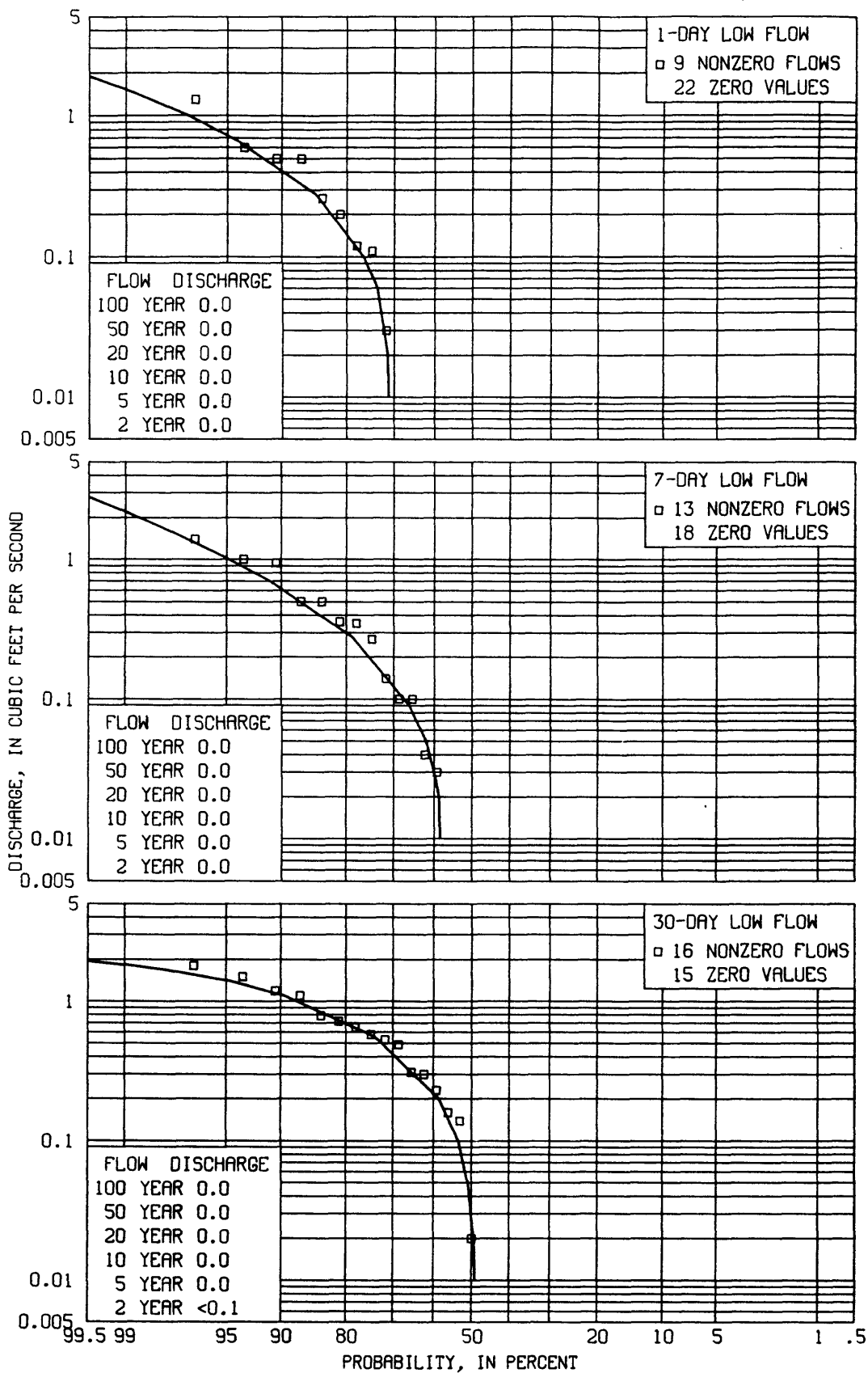
STATION 5078500 CLEARWATER RIVER AT RED LAKE FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



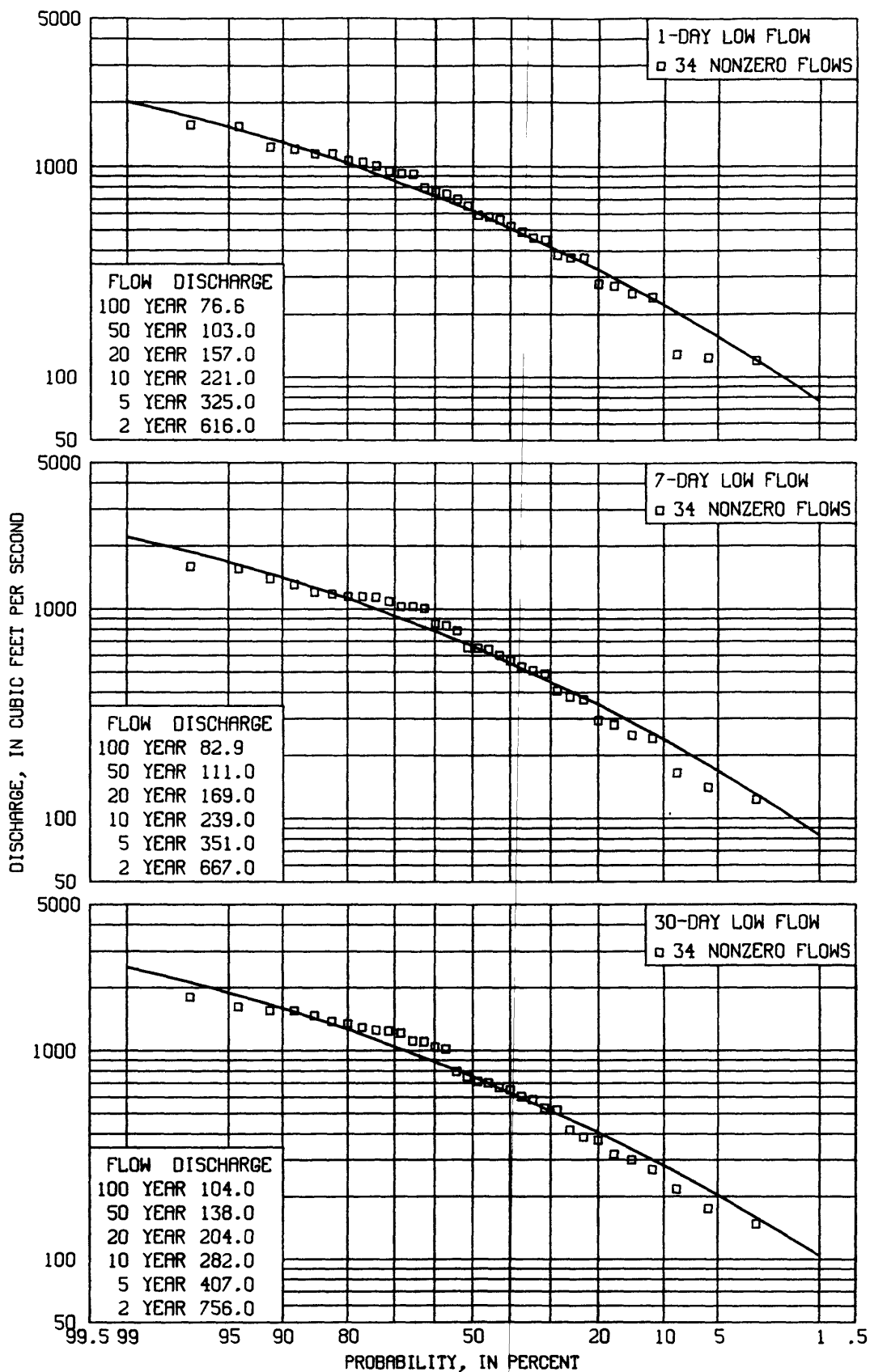
STATION 5079000 RED LAKE RIVER AT CROOKSTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



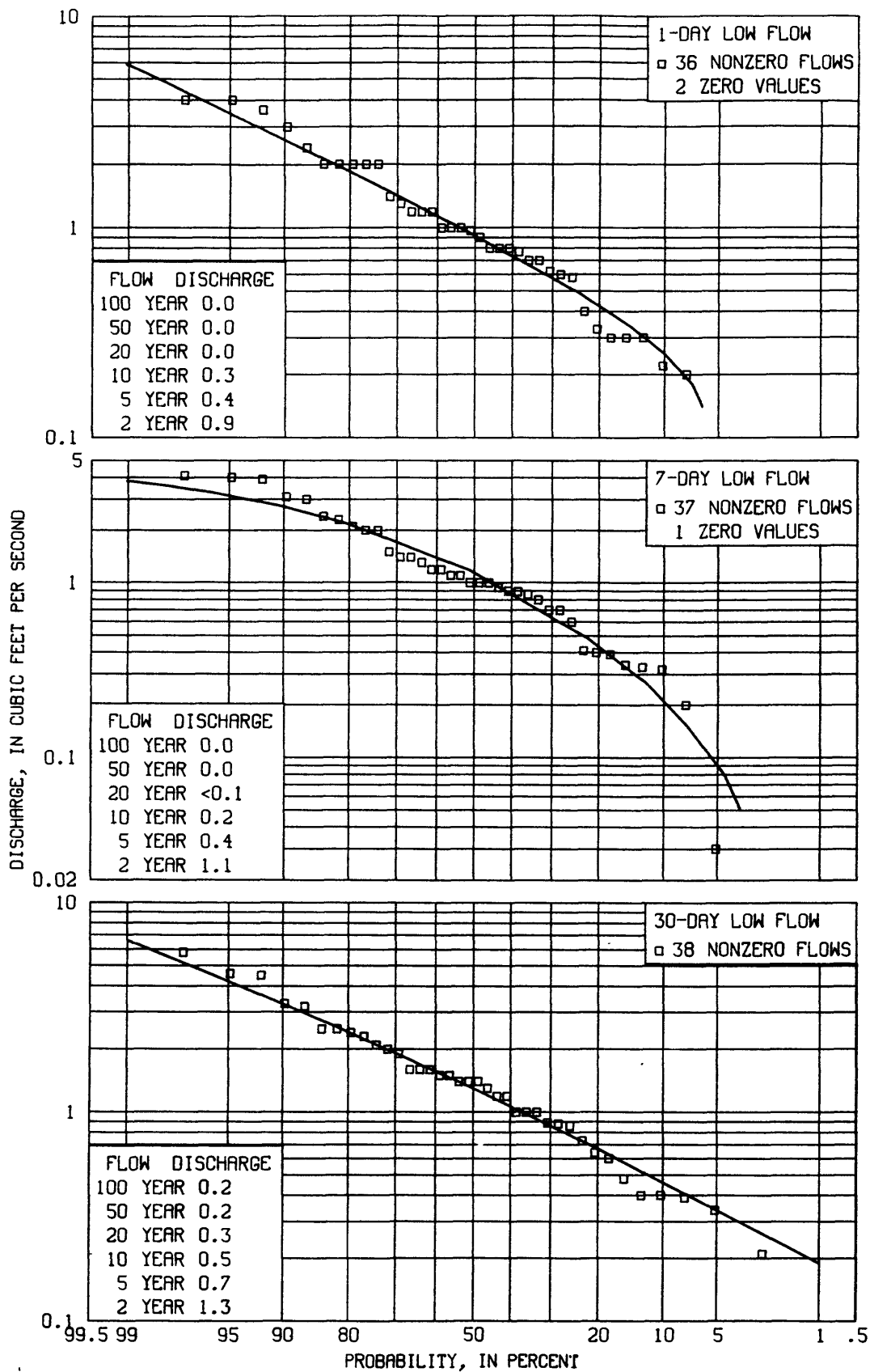
STATION 5082500 RED RIVER OF THE NORTH AT GRAND FORKS, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



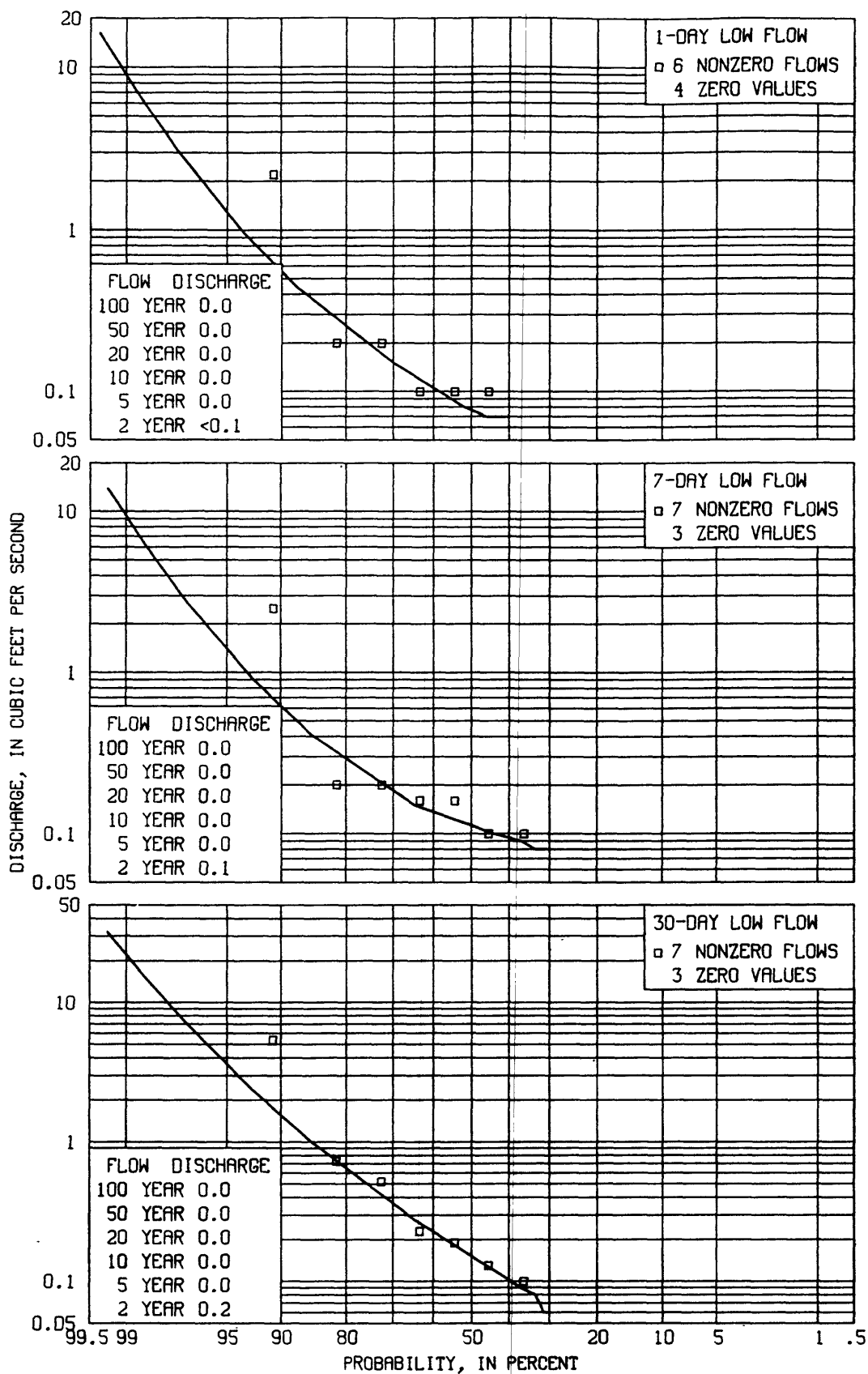
STATION 5087500 MIDDLE RIVER AT ARGYLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



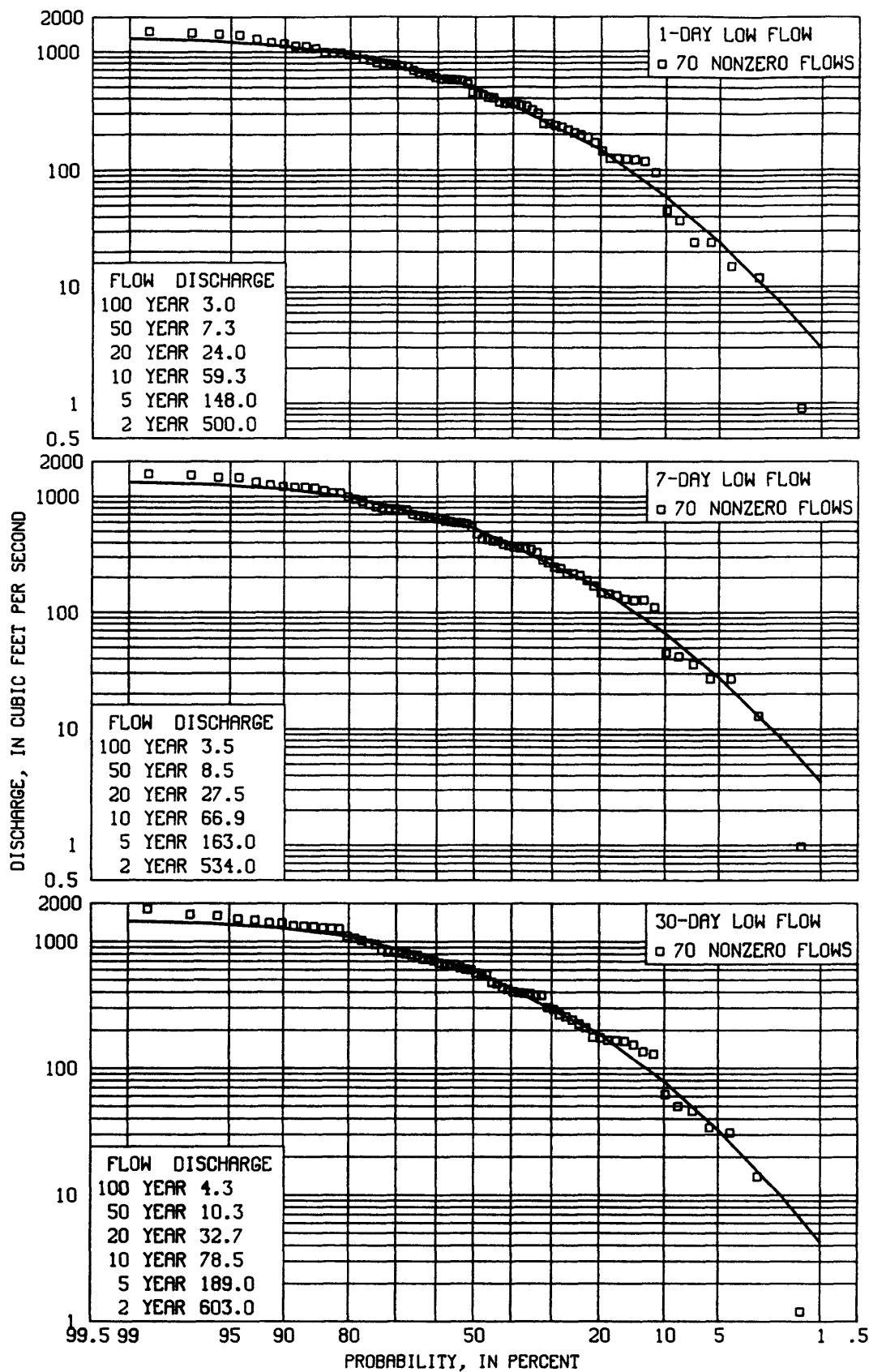
STATION 5092000 RED RIVER OF THE NORTH AT DRAYTON, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



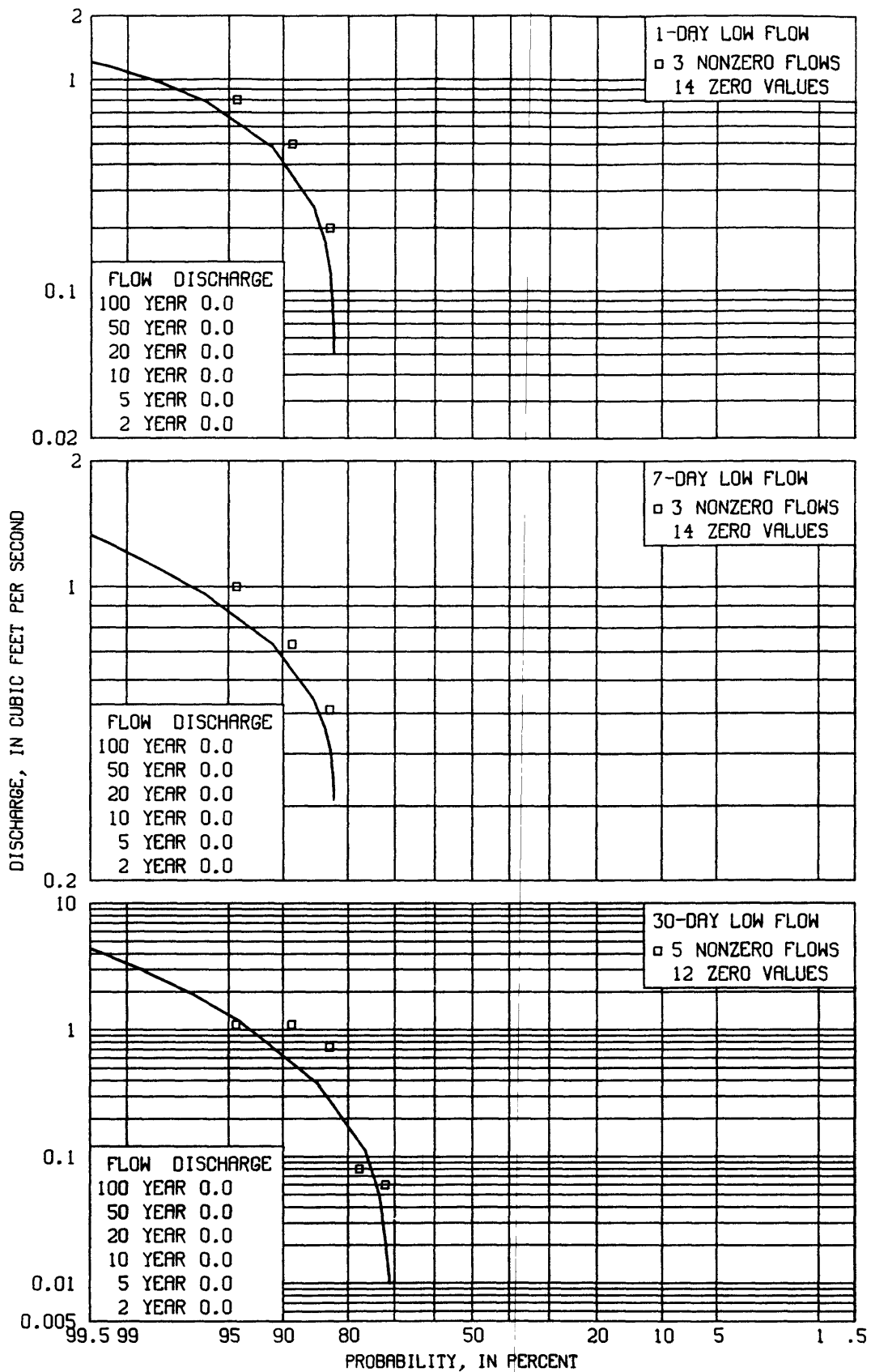
STATION 5094000 SOUTH BRANCH TWO RIVERS AT LAKE BRONSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



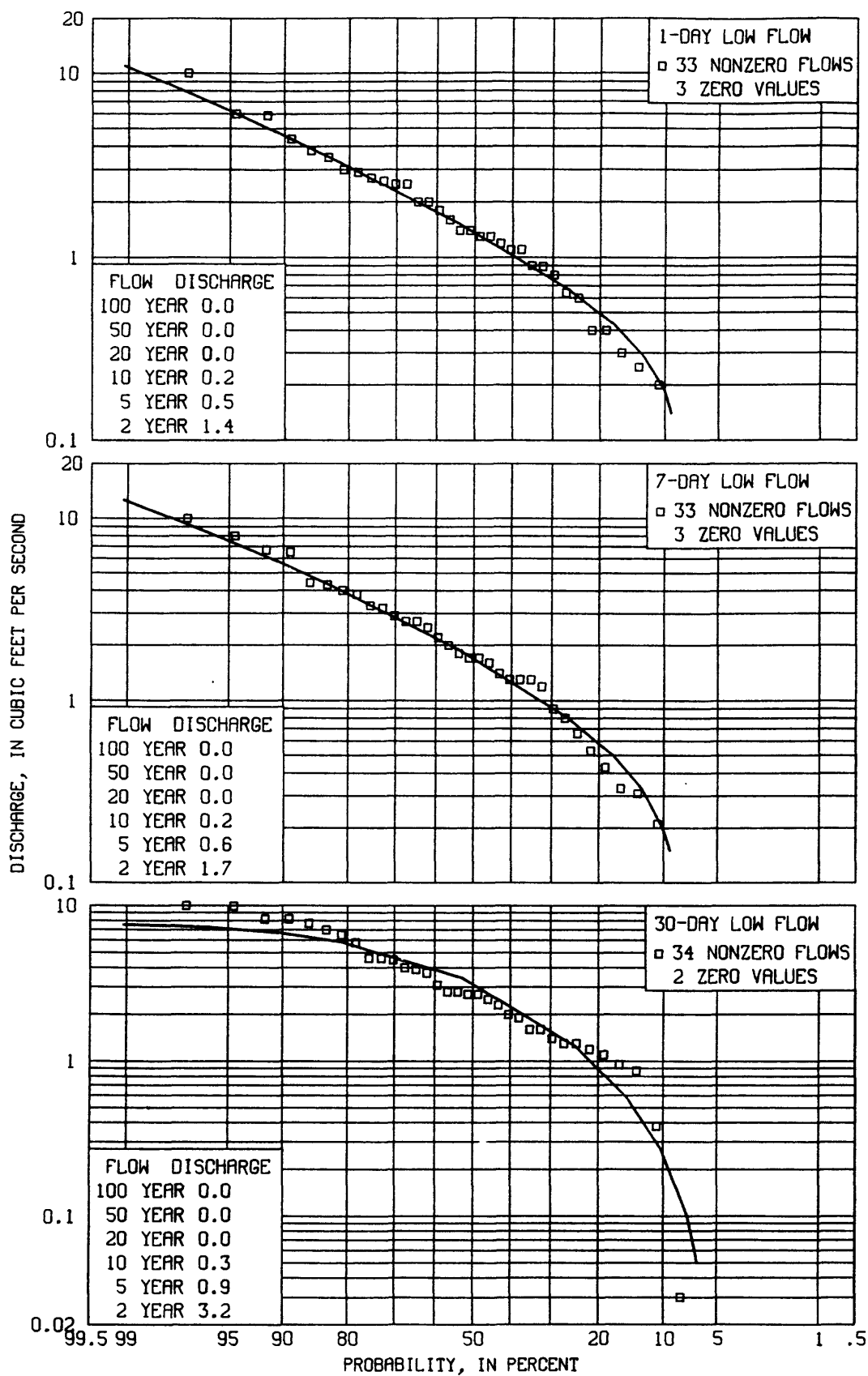
STATION 5095500 TWO RIVERS BELOW HALLOCK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



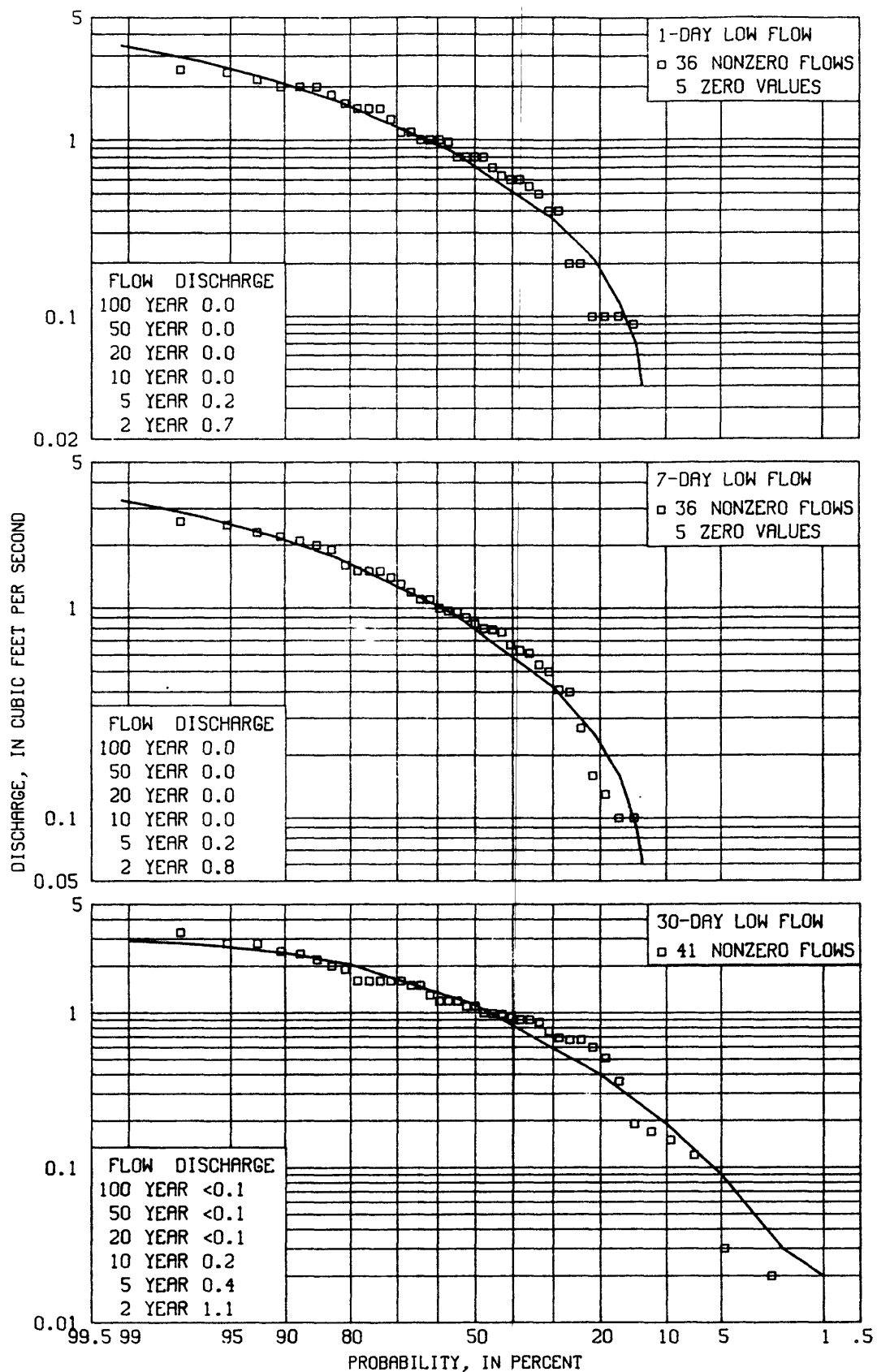
STATION 5102500 RED RIVER OF THE NORTH AT EMERSON, MANITOBA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



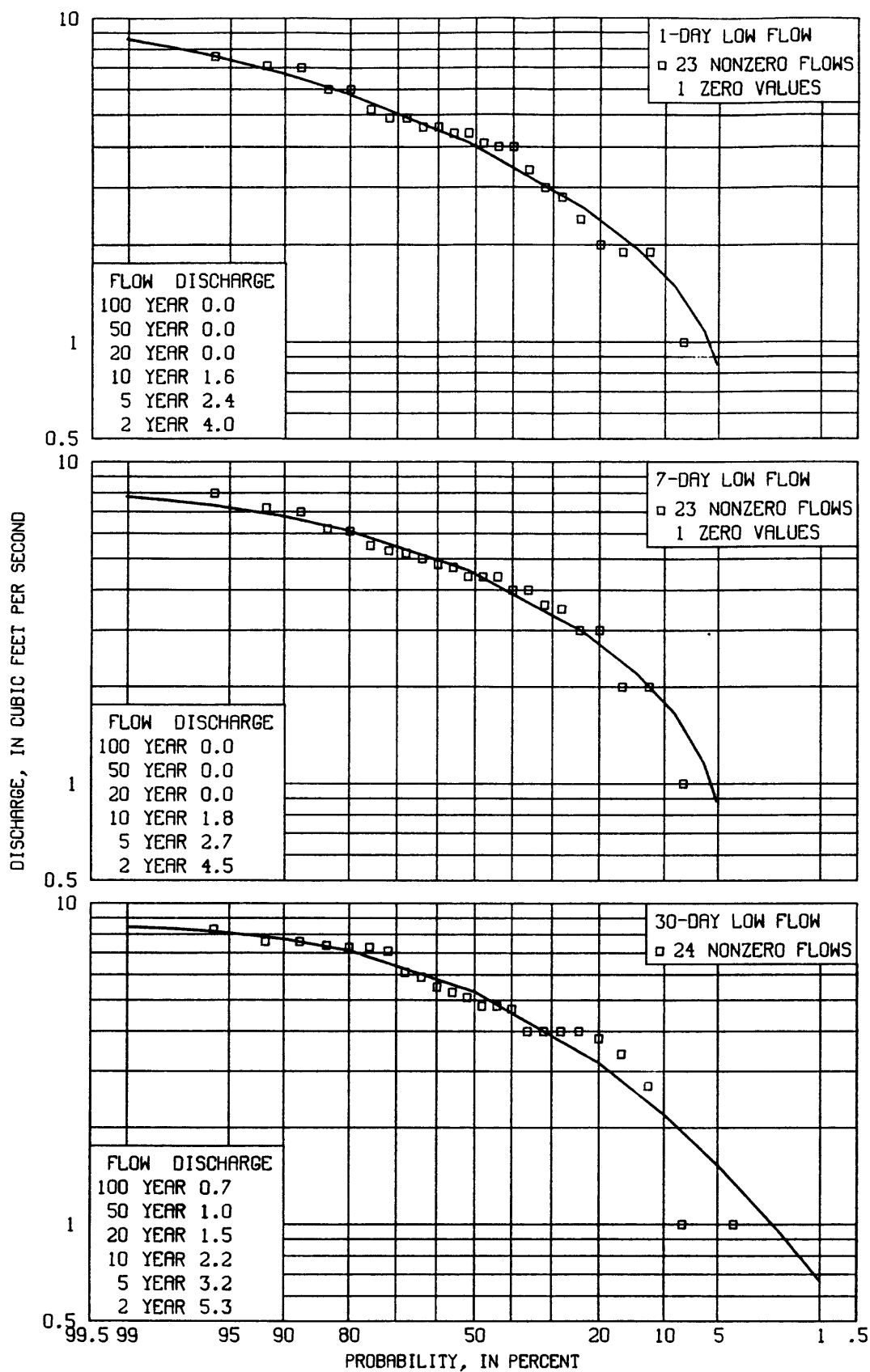
STATION 5104000 SOUTH FORK ROSEAU RIVER NEAR MALUNG
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



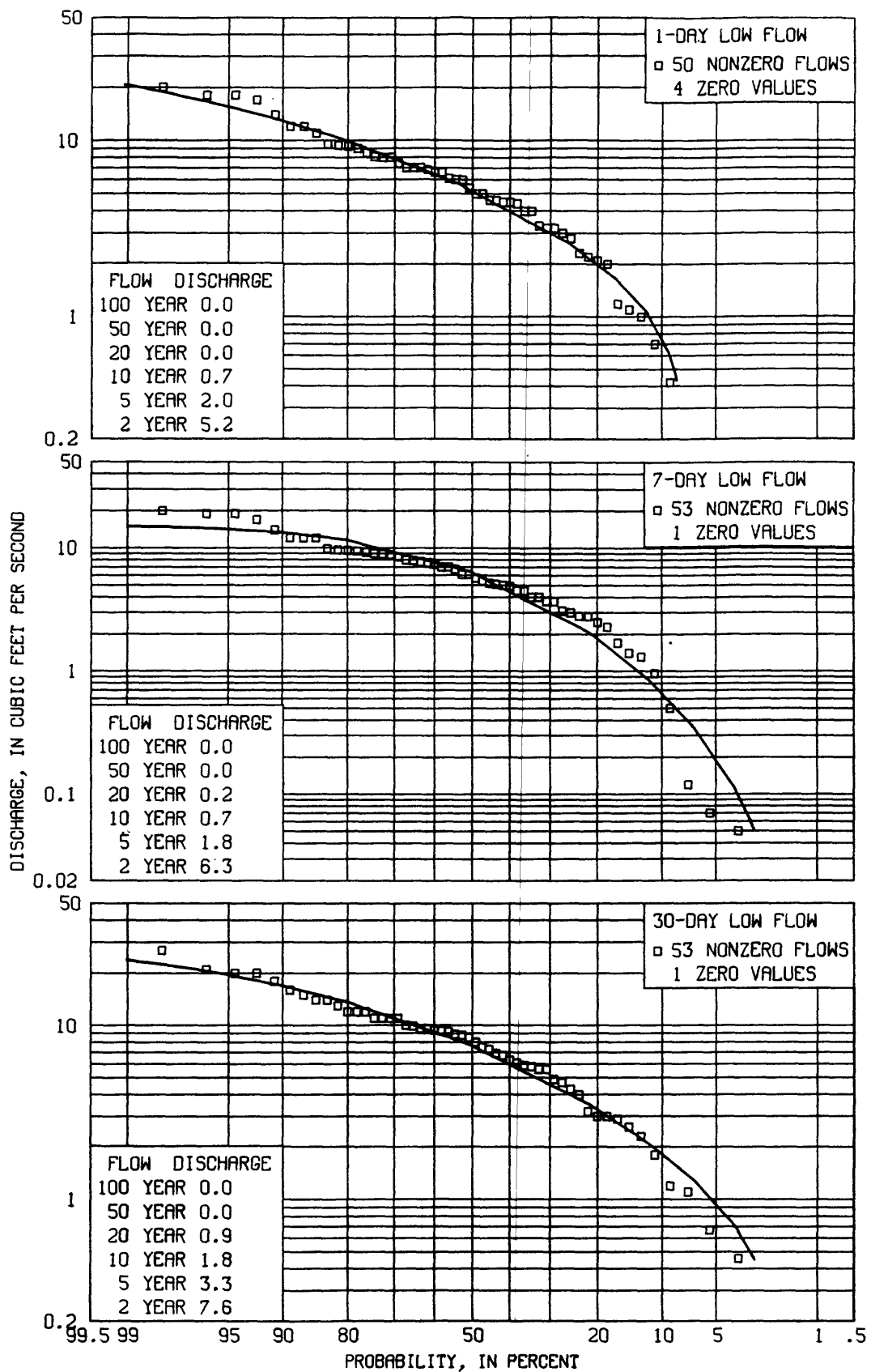
STATION 5104500 ROSEAU RIVER BELOW SOUTH FORK NEAR MALUNG
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



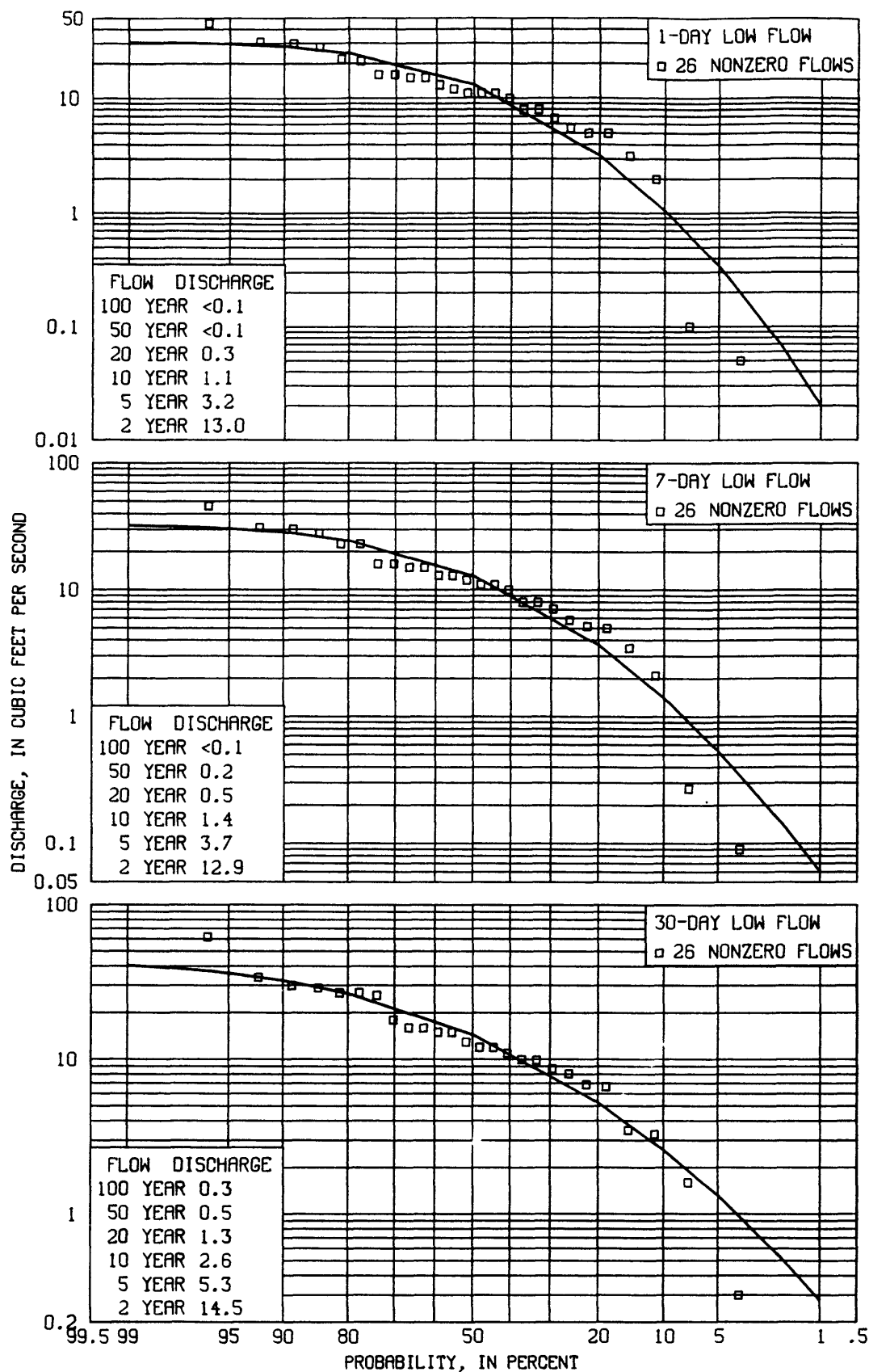
STATION 5106000 SPRAGUE CREEK NEAR SPRAGUE, MANITOBA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



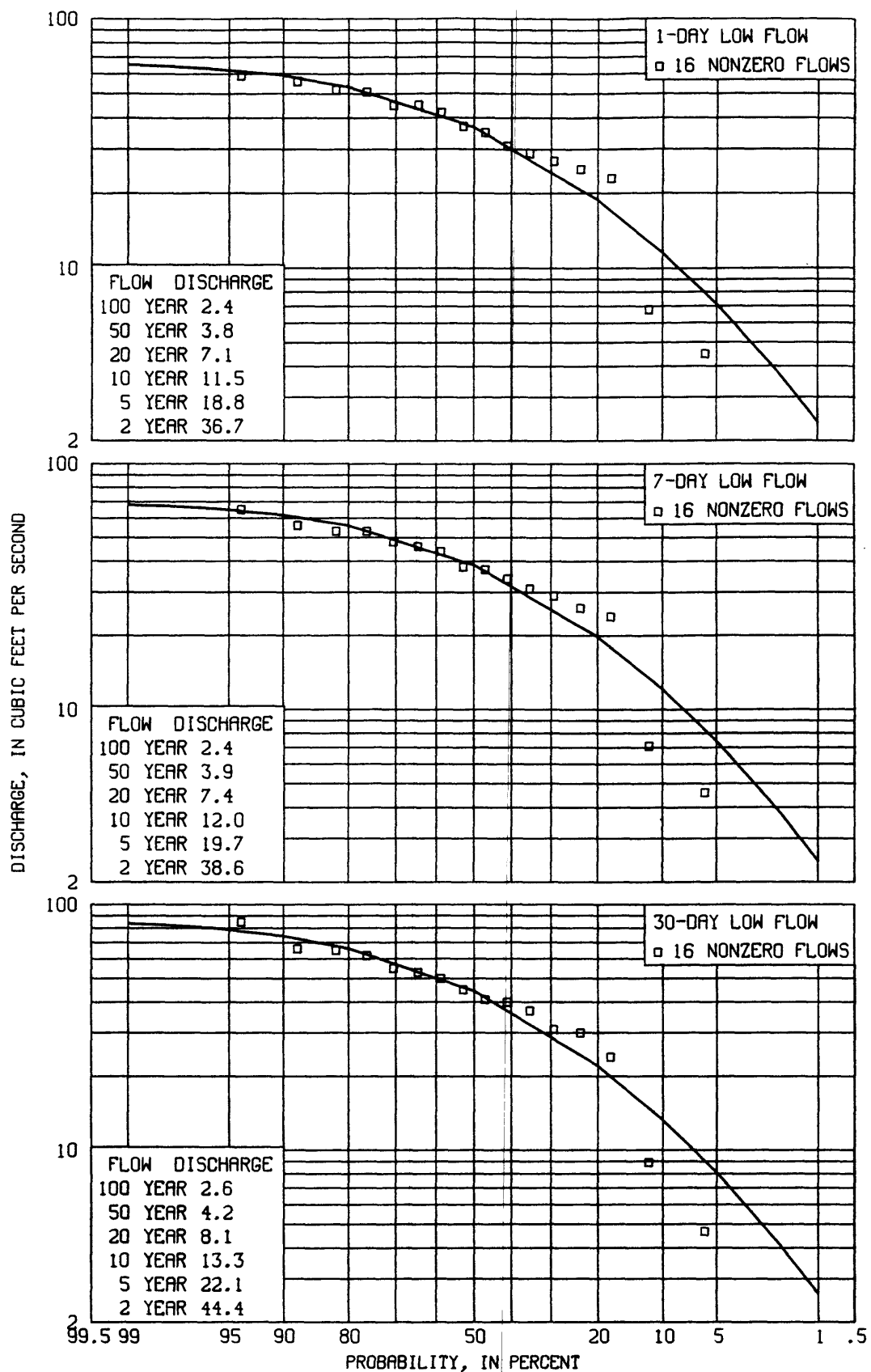
STATION 5107000 PINE CREEK NEAR PINE CREEK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



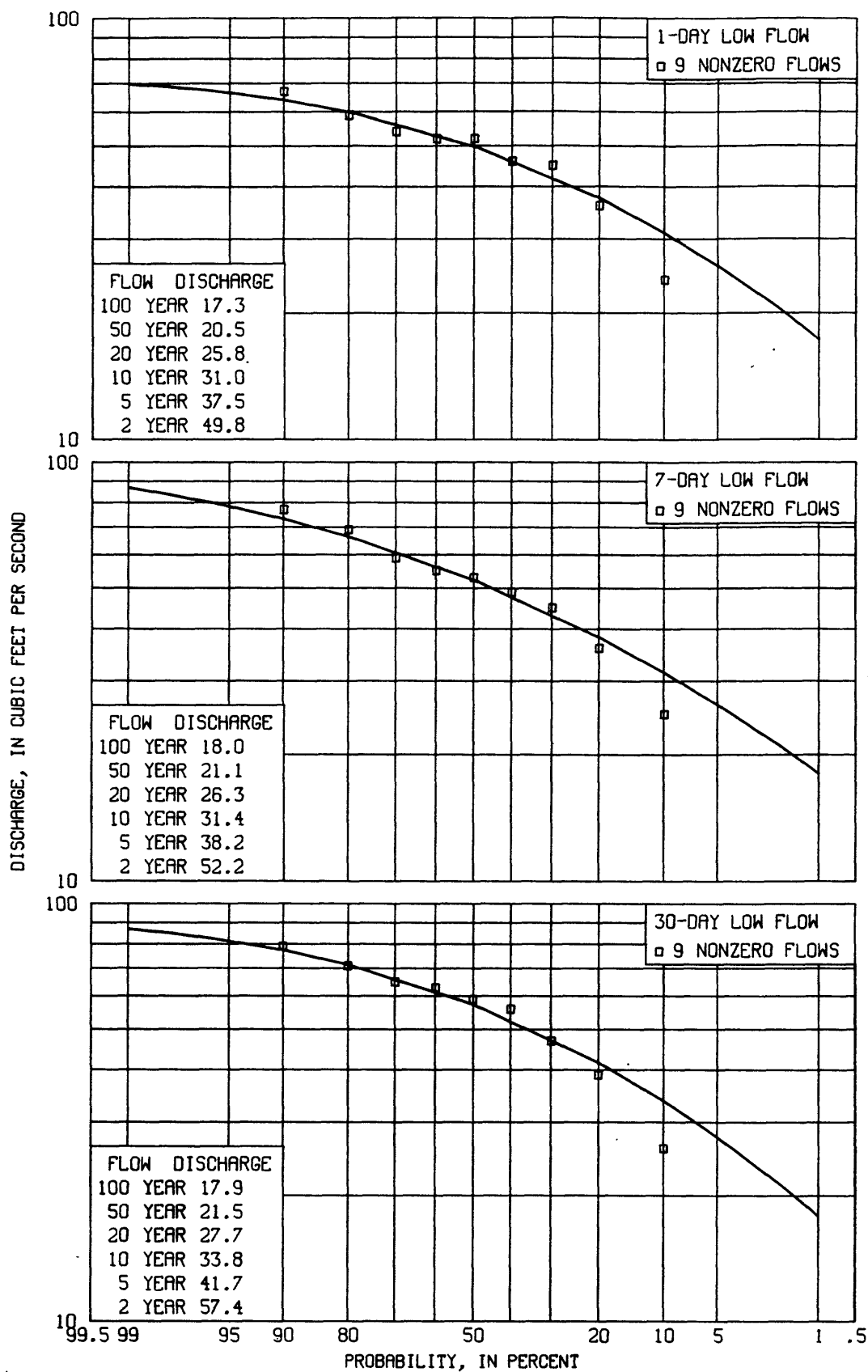
STATION 5107500 ROSEAU RIVER AT ROSS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



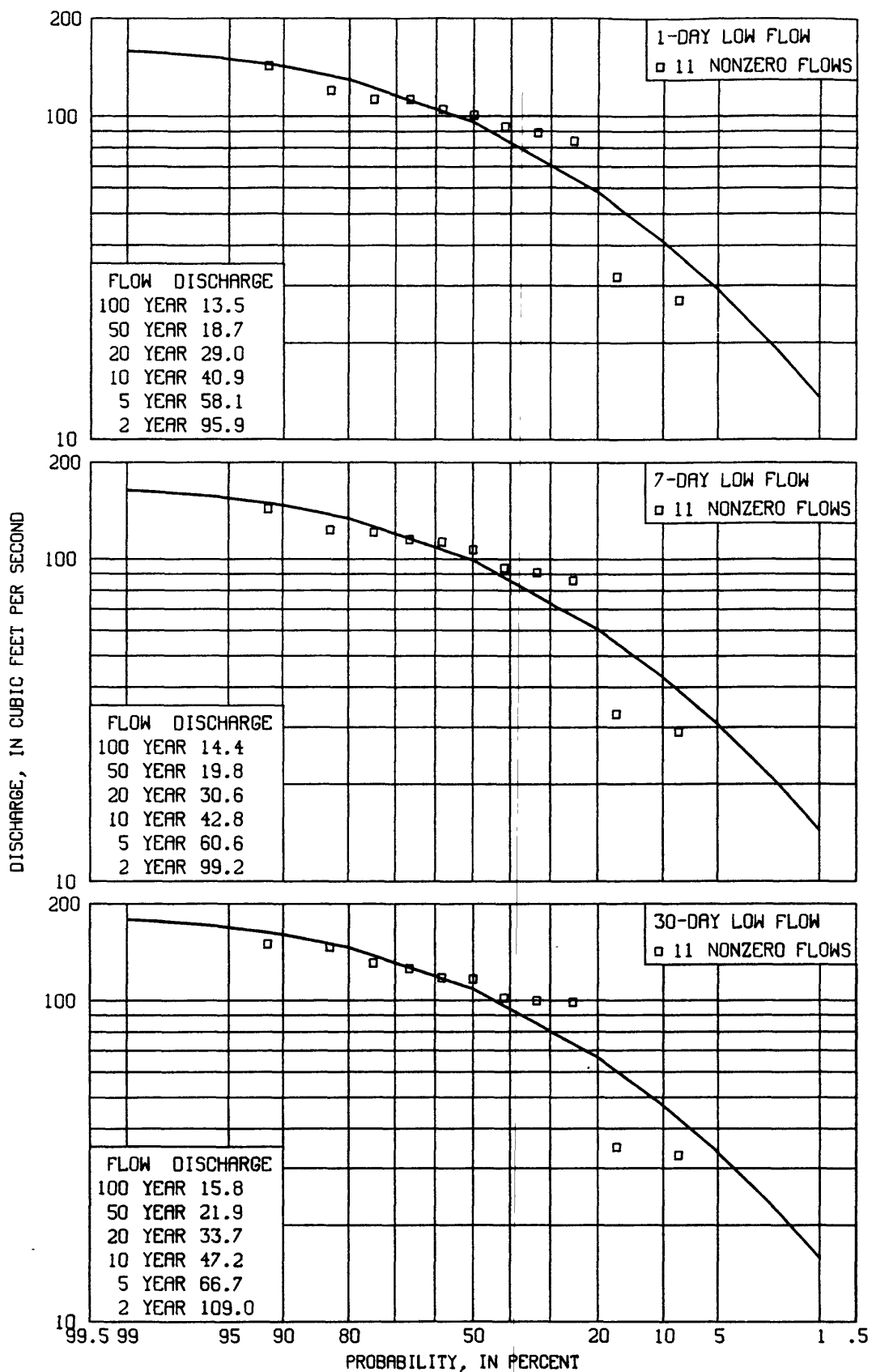
STATION 5112000 ROSEAU RIVER BELOW STATE DITCH 51 NEAR CARIBOU
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



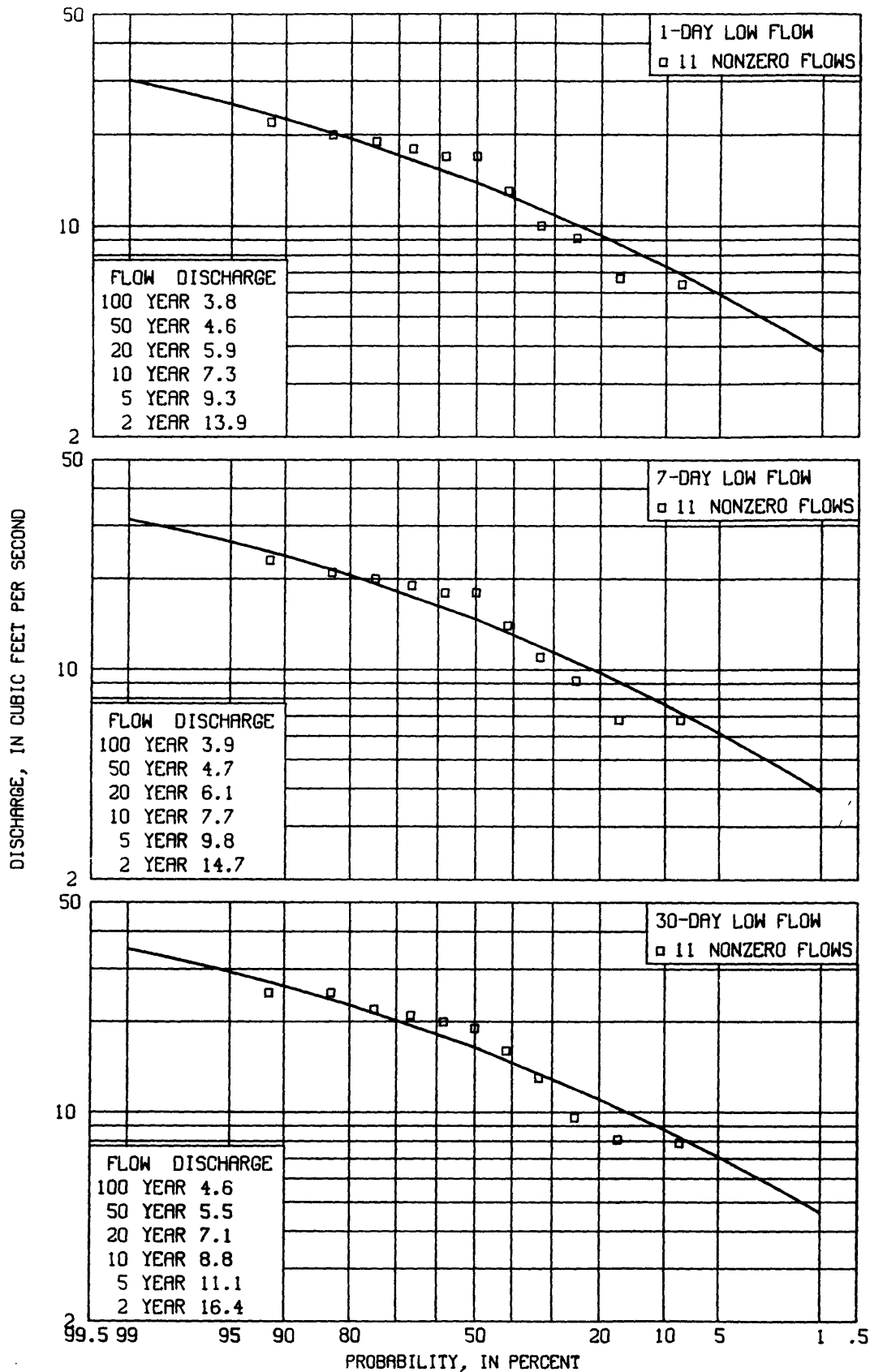
STATION 5124480 KAWISHIWI RIVER NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



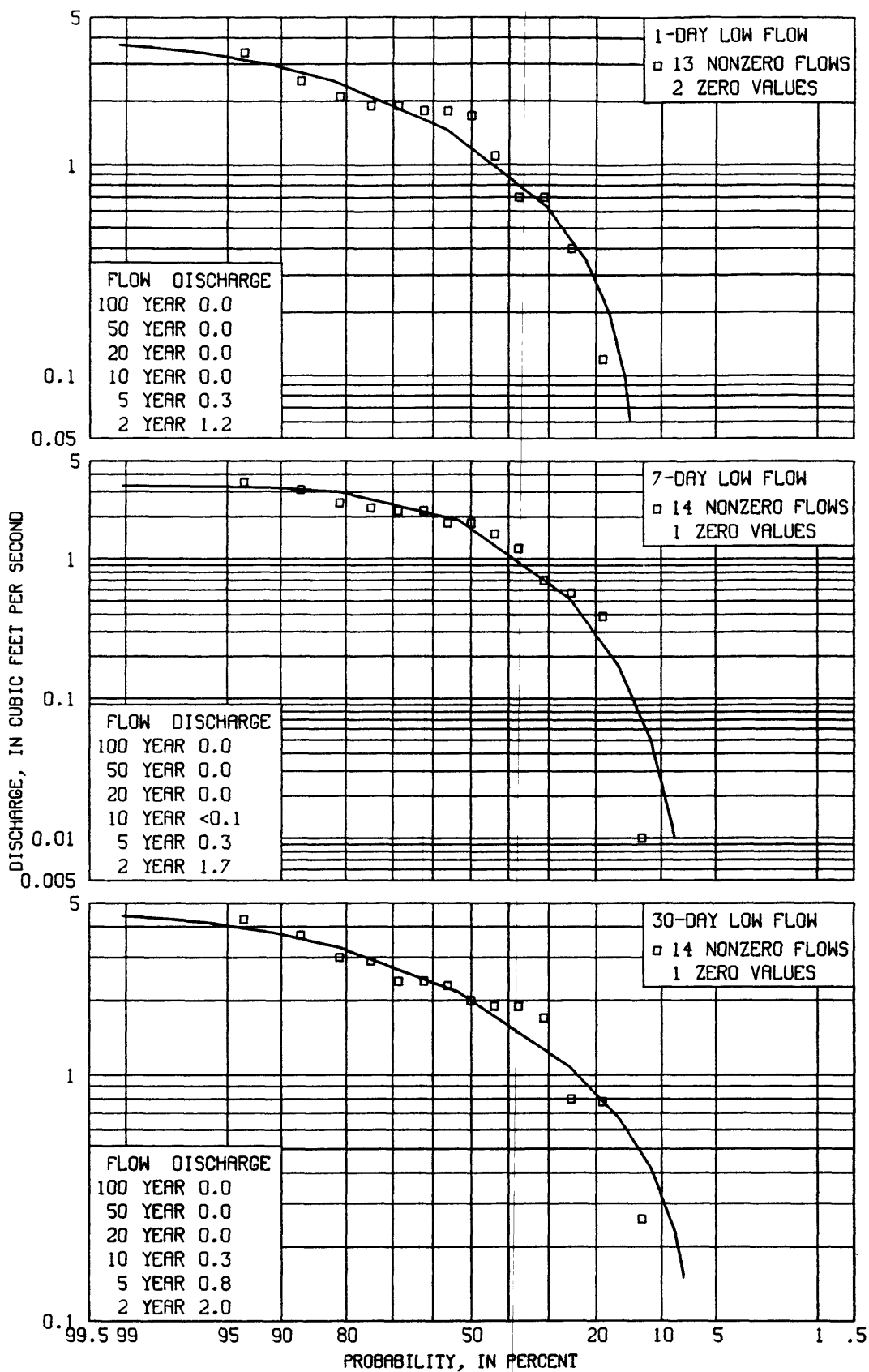
STATION 5124500 ISABELLA RIVER NEAR ISABELLA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



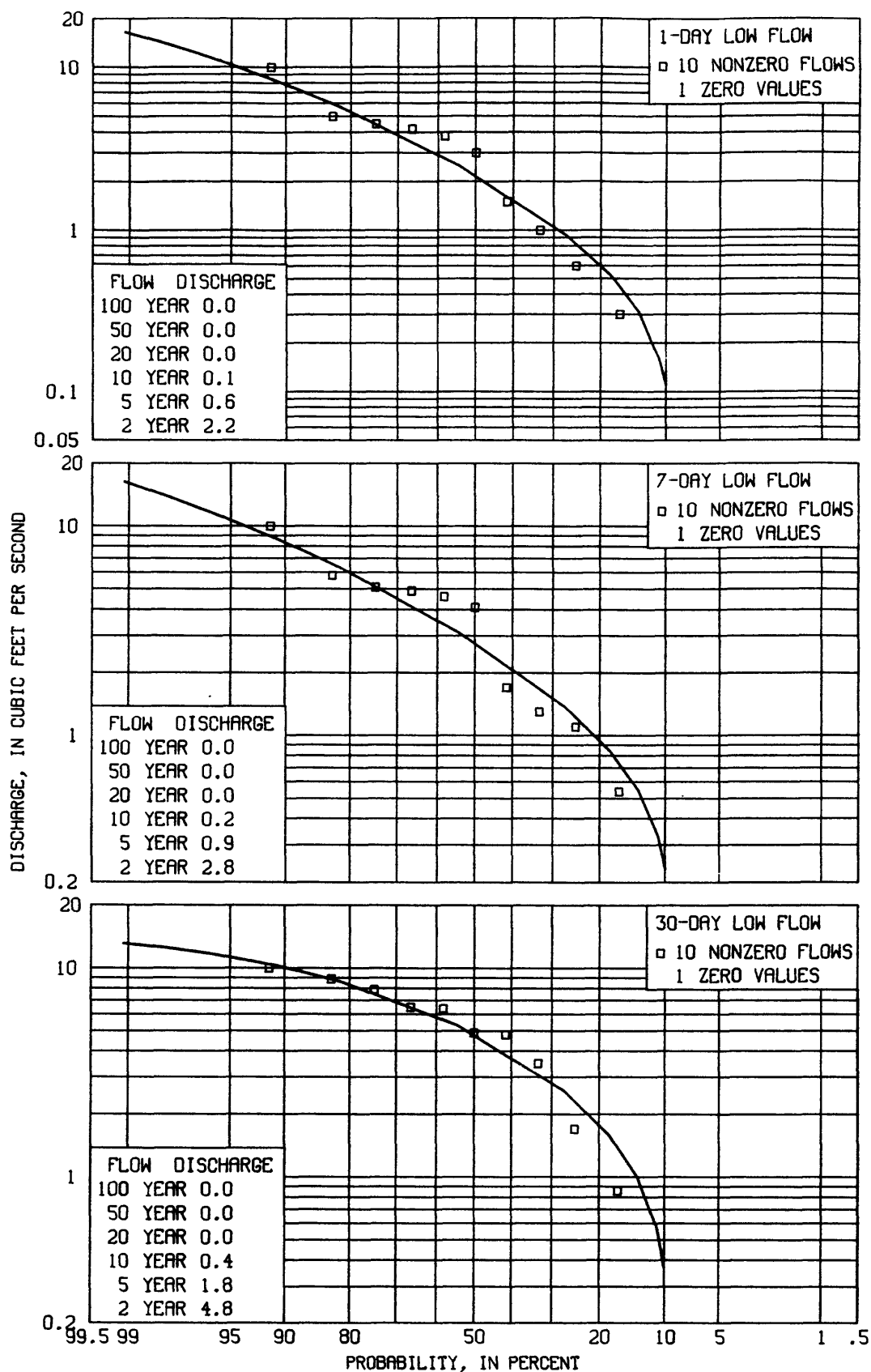
STATION 5125000 SOUTH KAWISHIWI RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



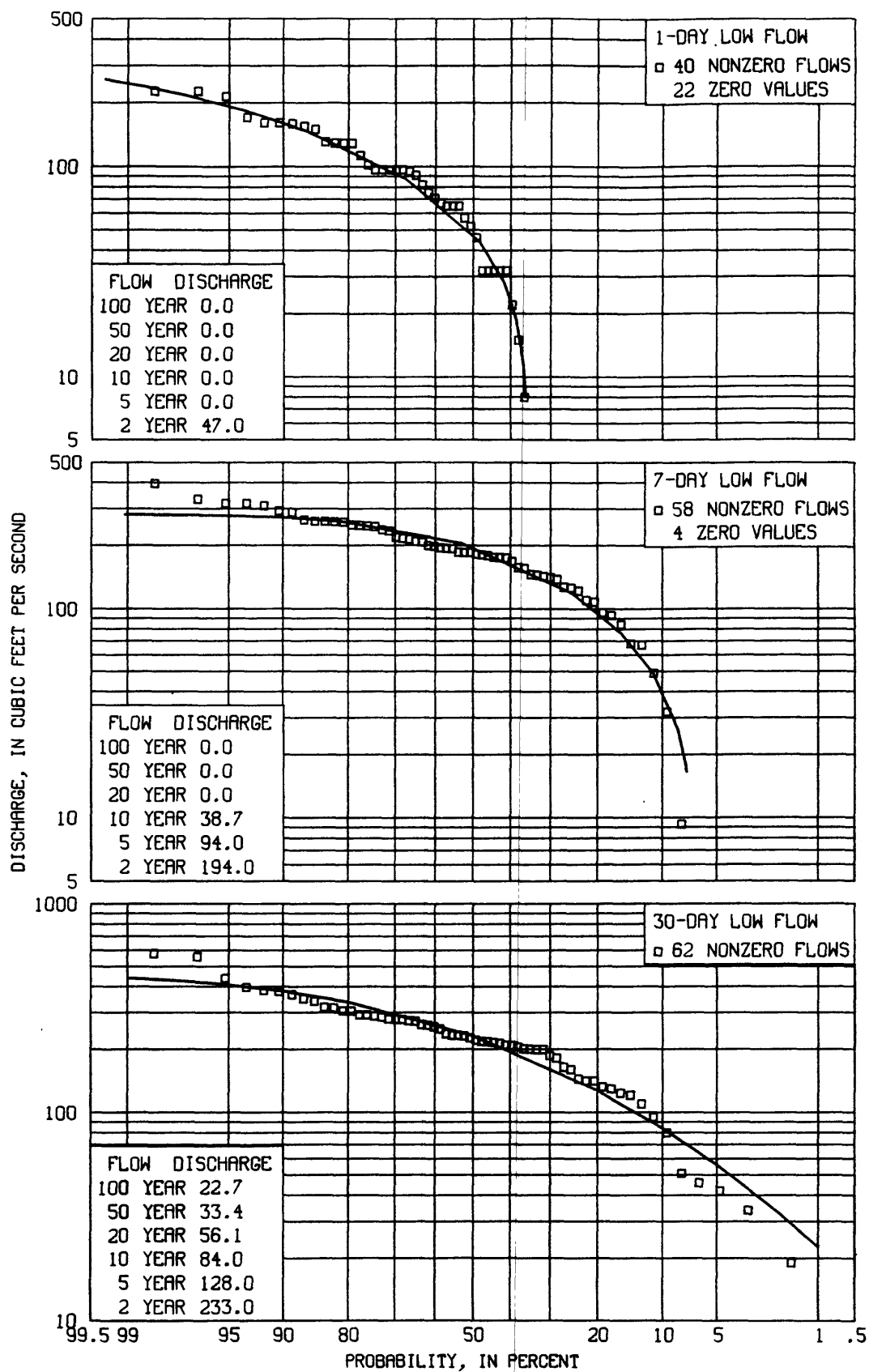
STATION 5125500 STONY RIVER NEAR ISABELLA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



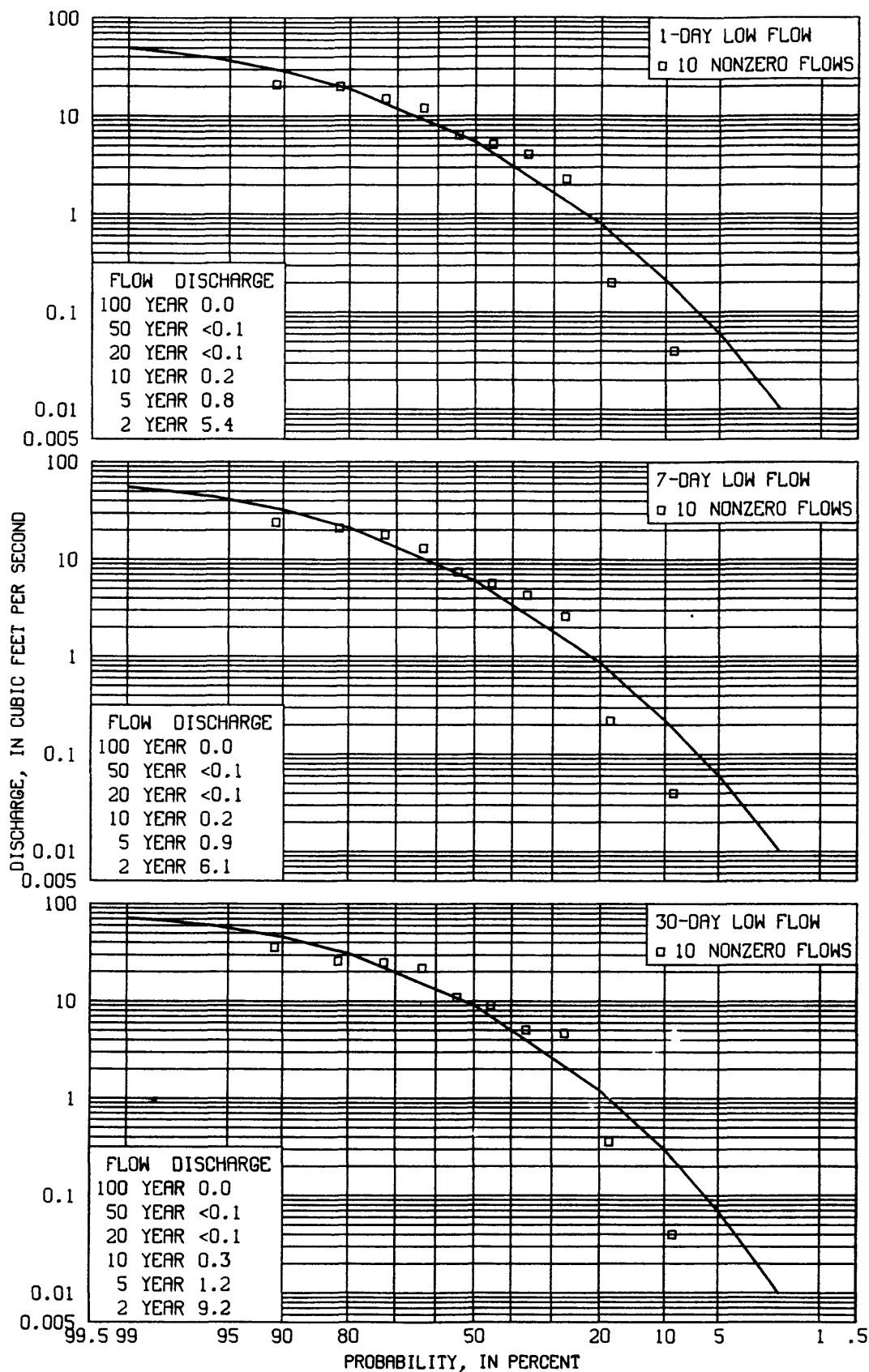
STATION 5126000 DUNKA RIVER NEAR BABBITT
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



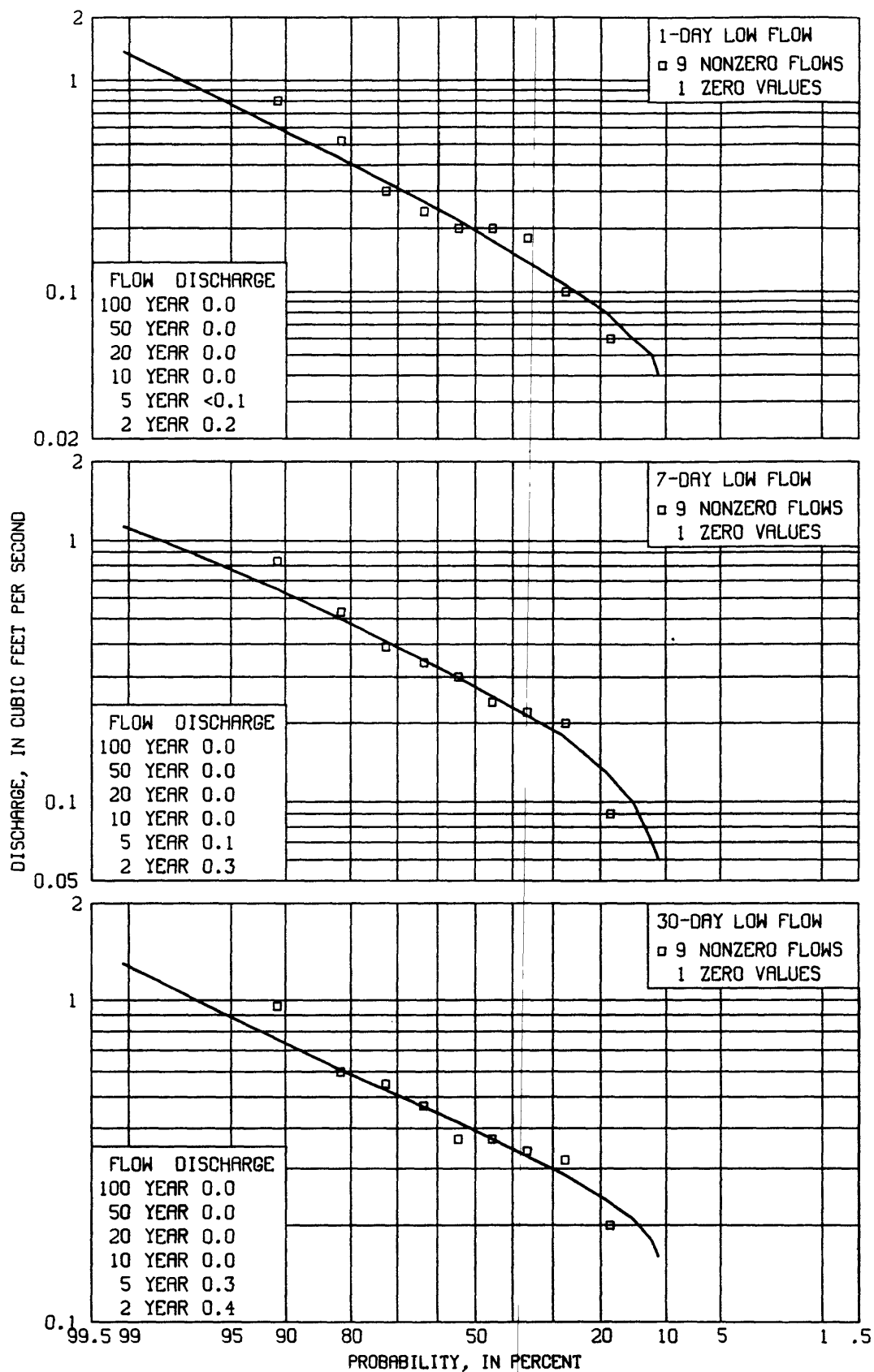
STATION 5126500 BEAR ISLAND RIVER NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



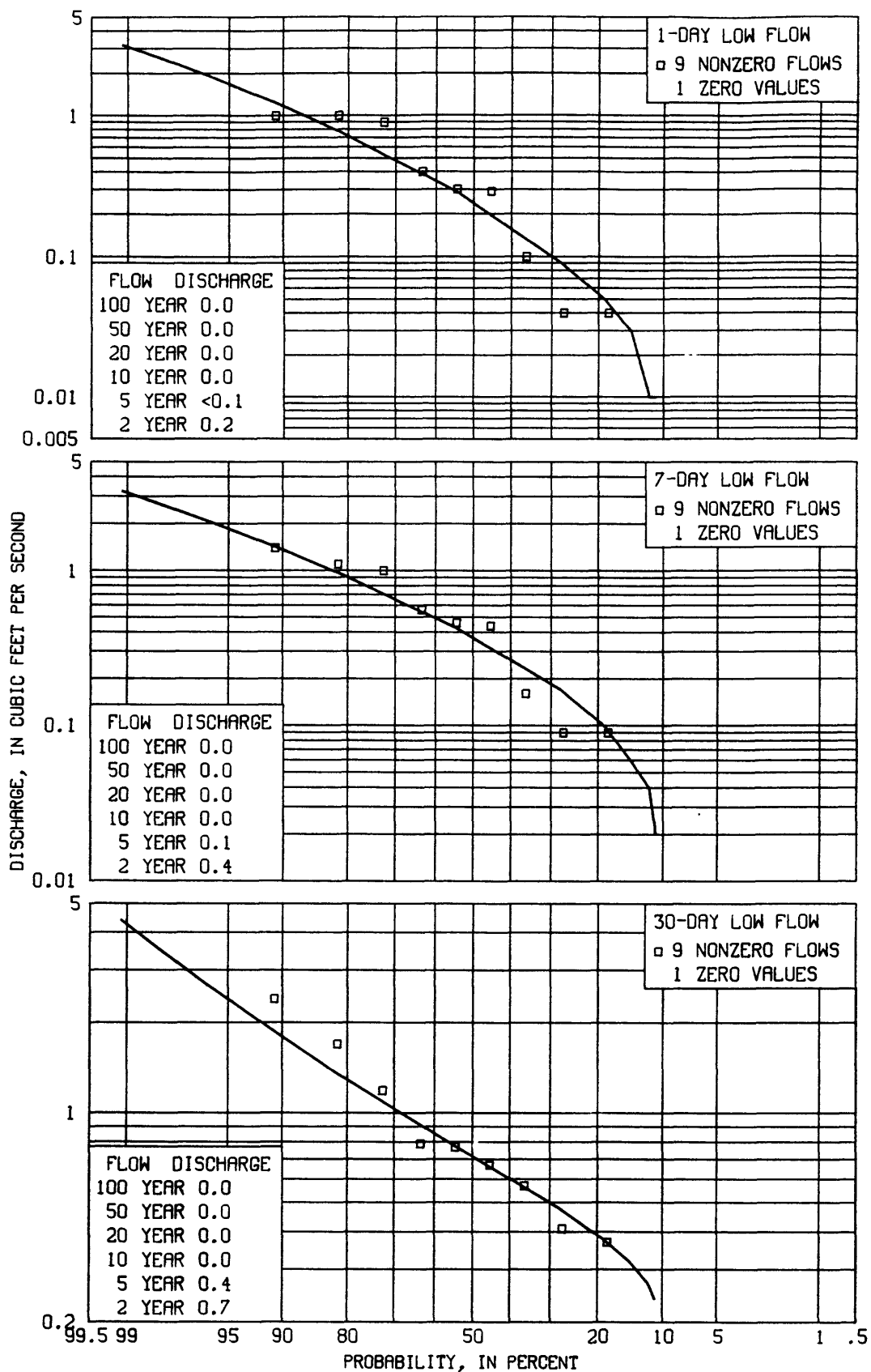
STATION 5127000 KAWISHIWI RIVER NEAR WINTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



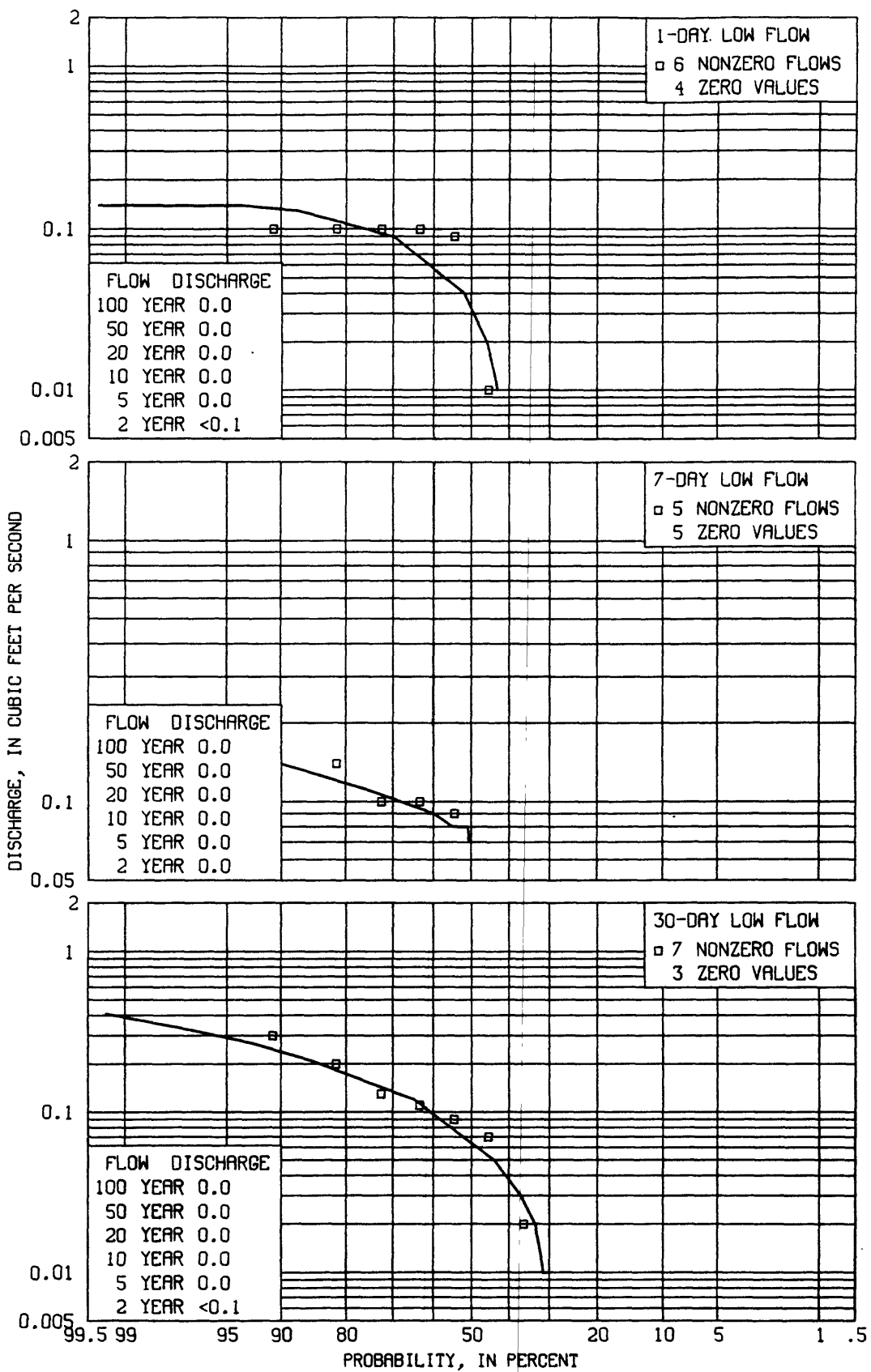
STATION 5127205 BURNTSIDE RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



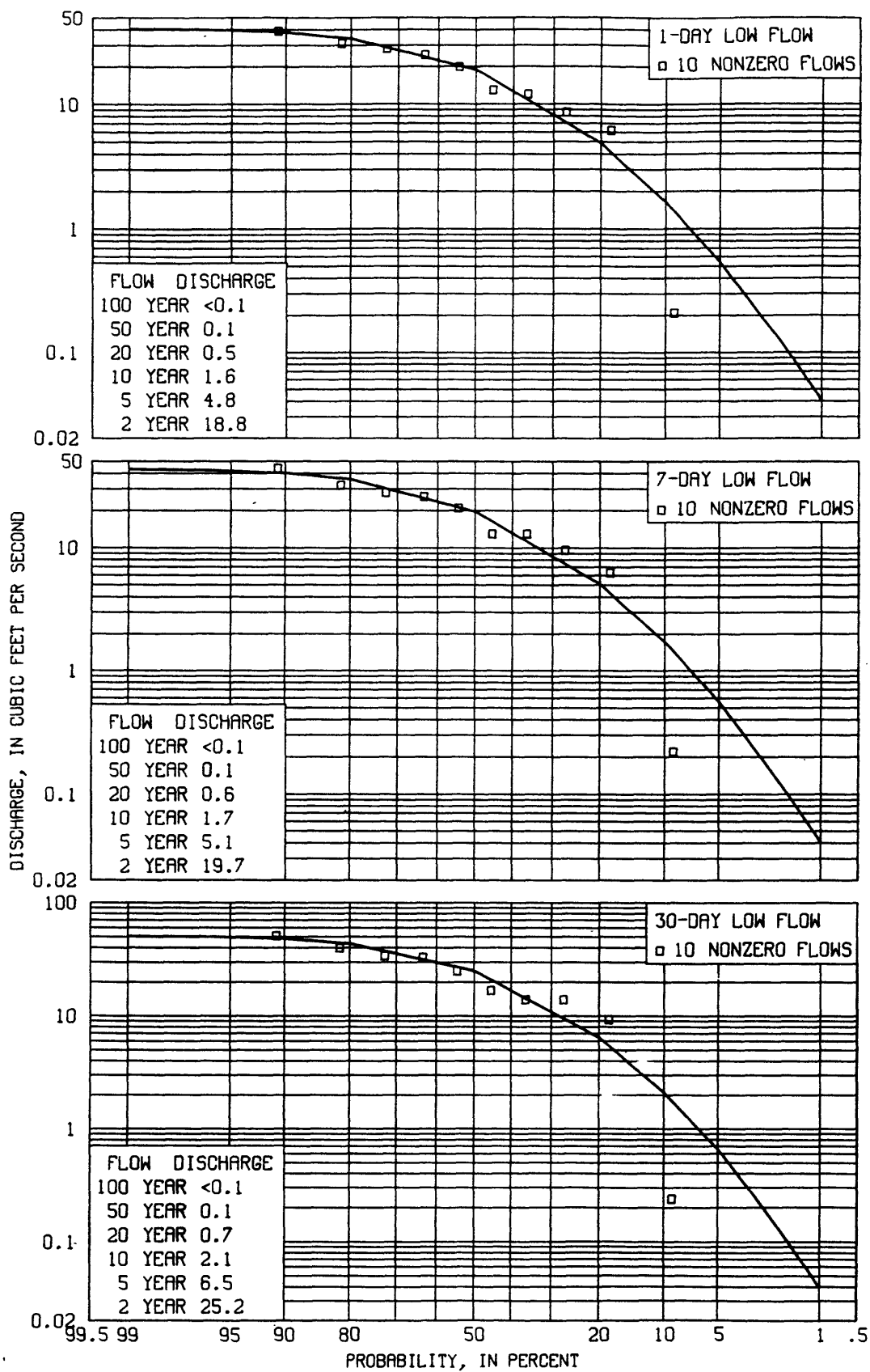
STATION 5127210 ARMSTRONG CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



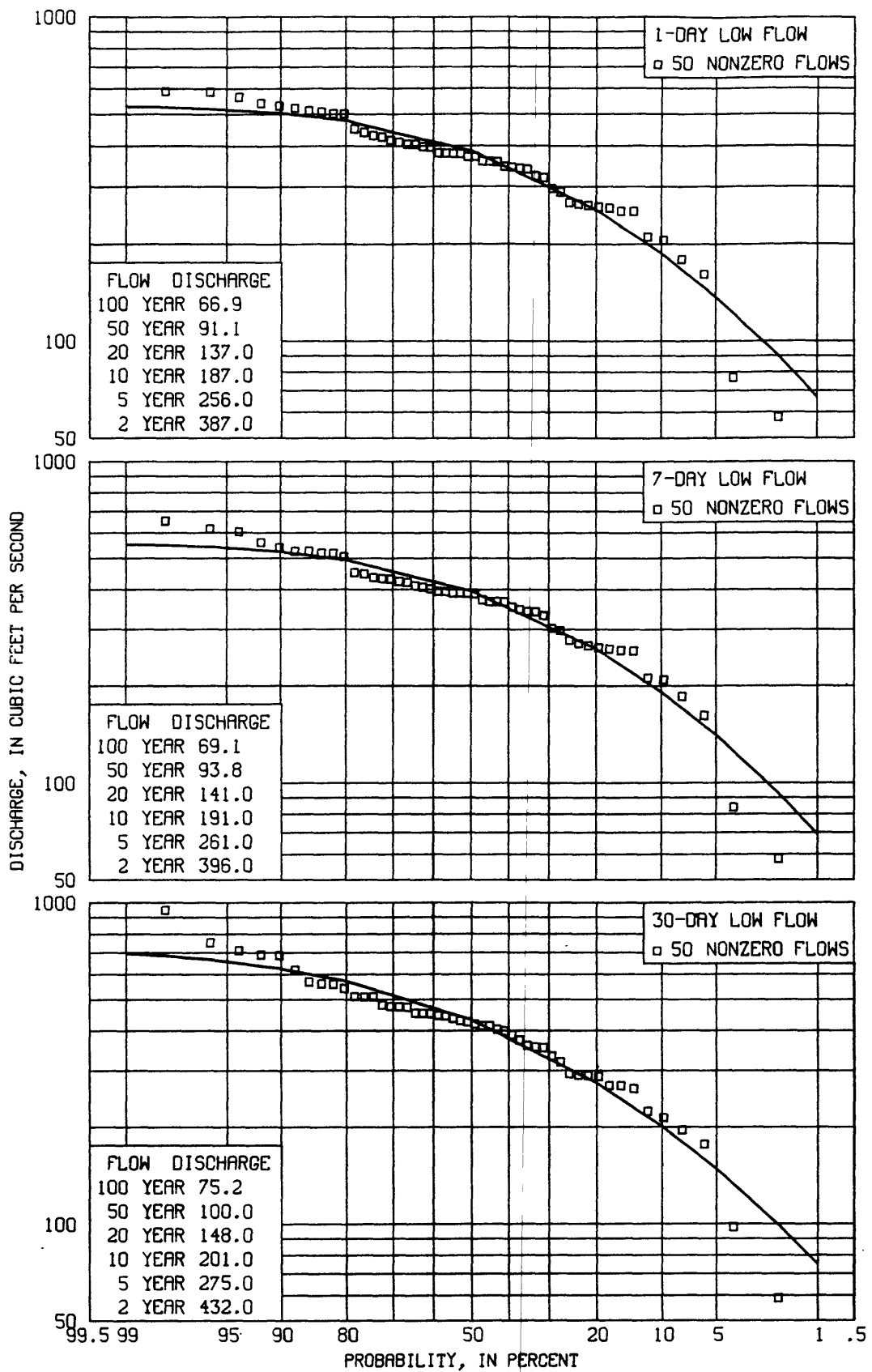
STATION 5127215 LONGSTORFF CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



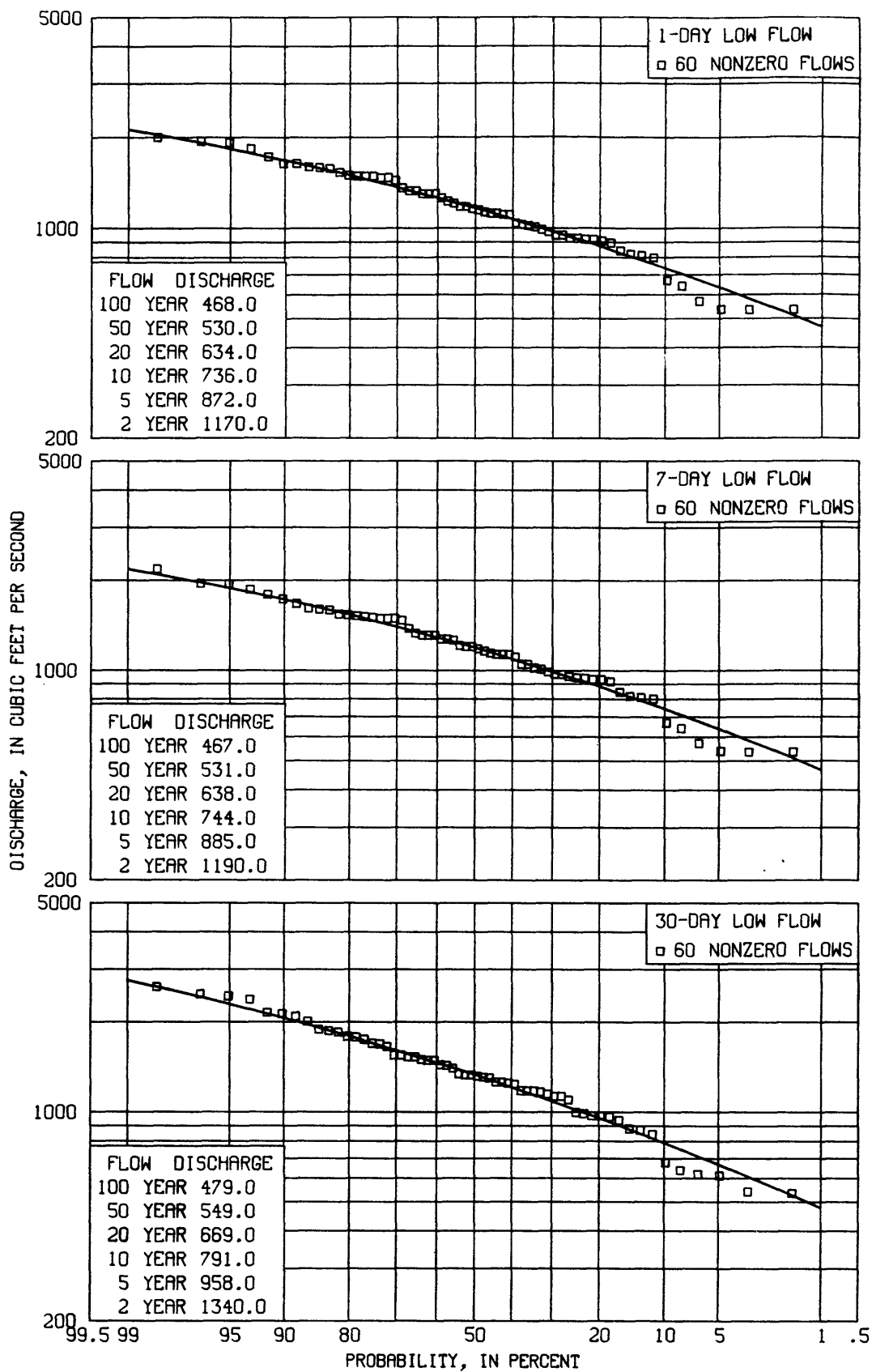
STATION 5127220 BURGO CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



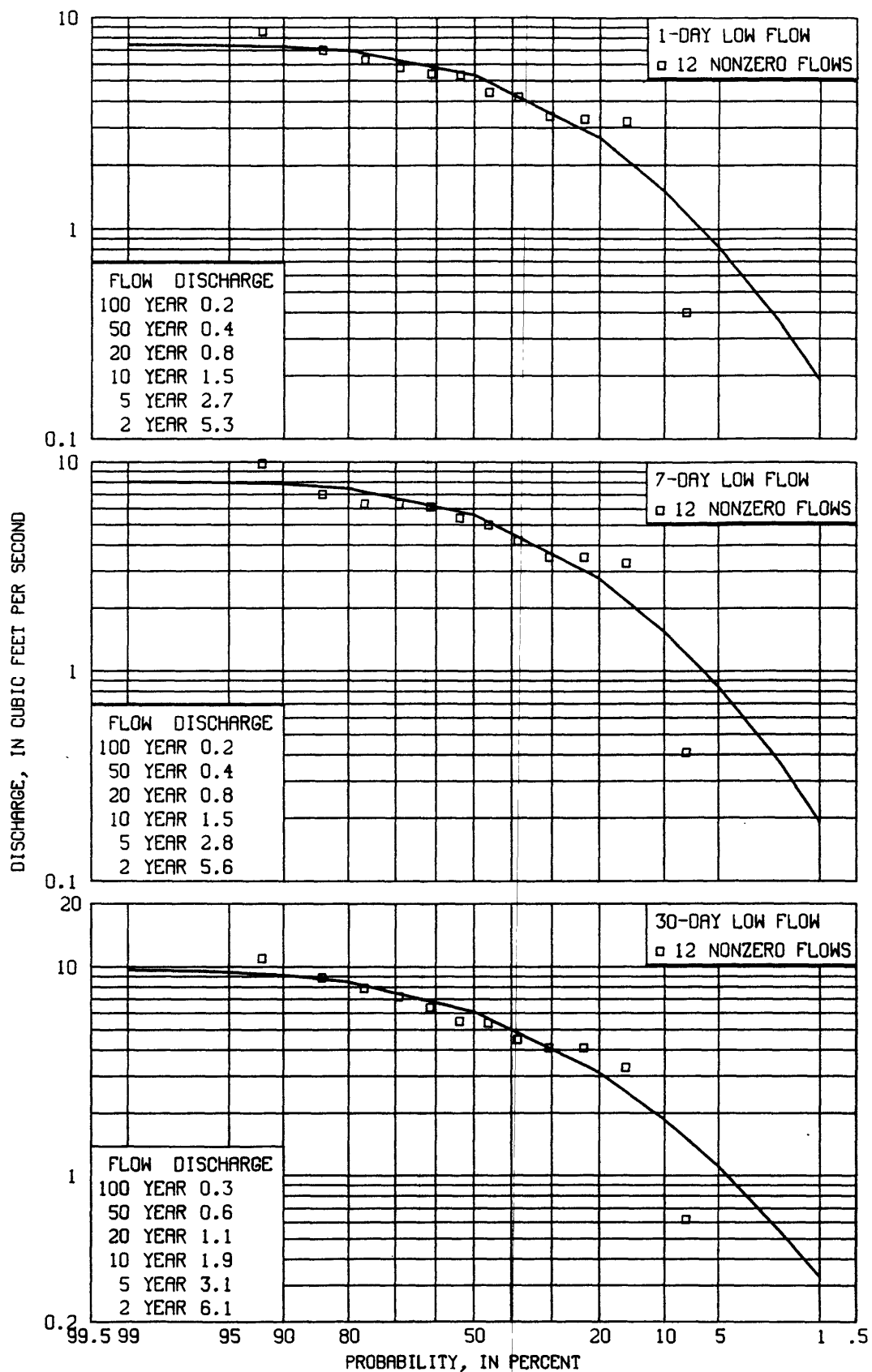
STATION 5127230 SHAGAWA RIVER AT ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



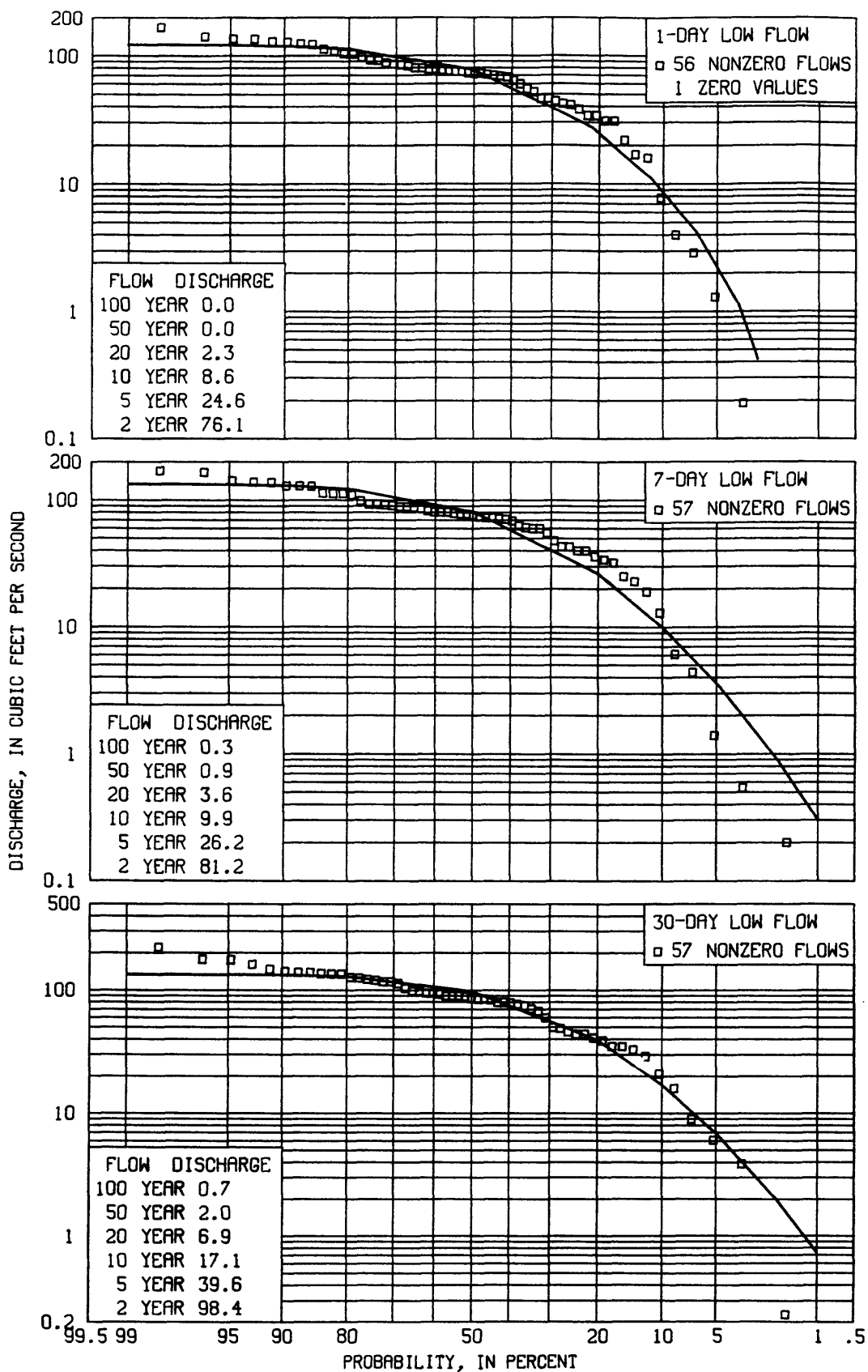
STATION 5127500 BASSWOOD RIVER NEAR WINTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



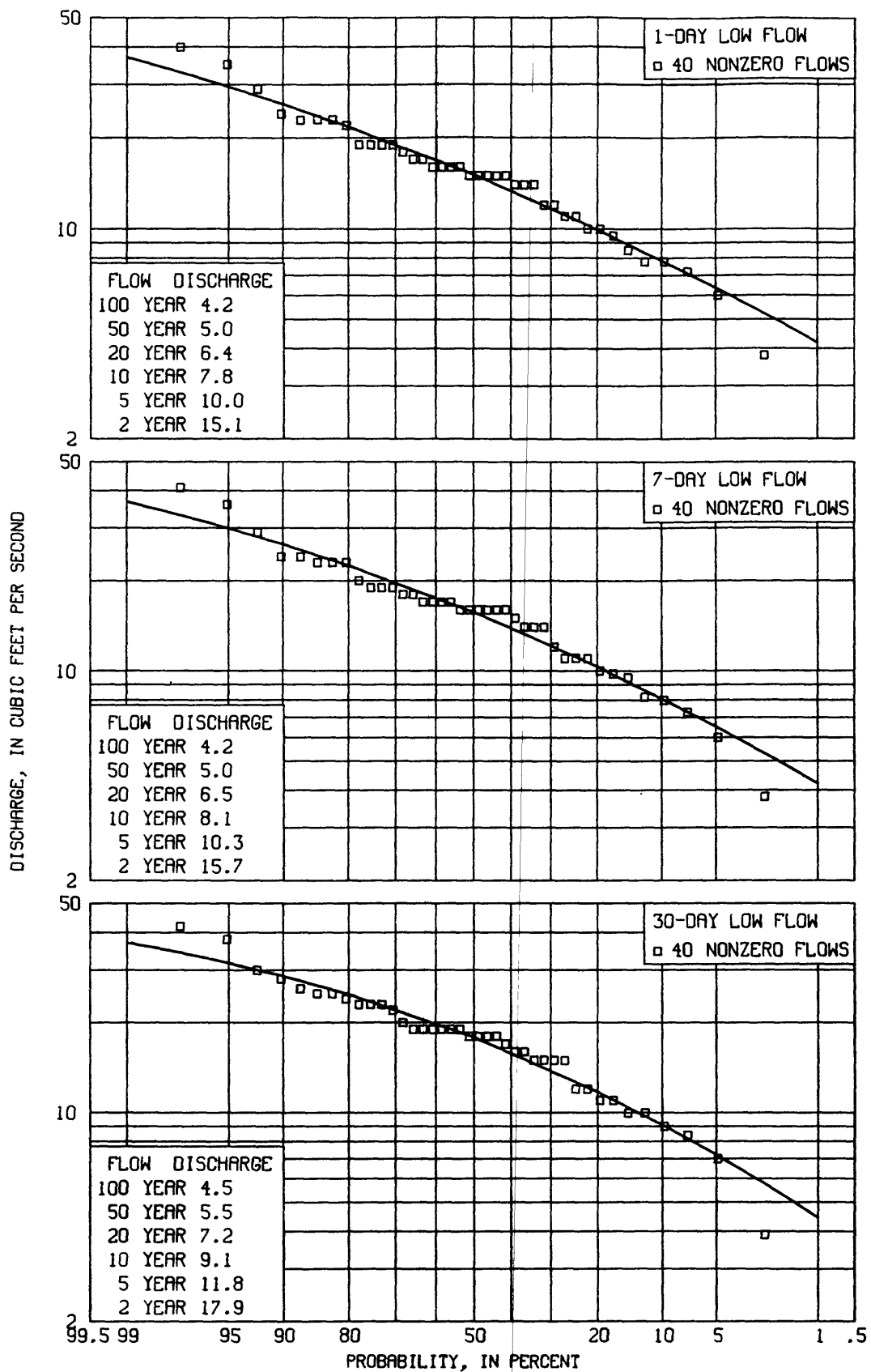
STATION 5128000 NAMAKAN R AT OUTLET OF LAC LA CROIX, ONTARIO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



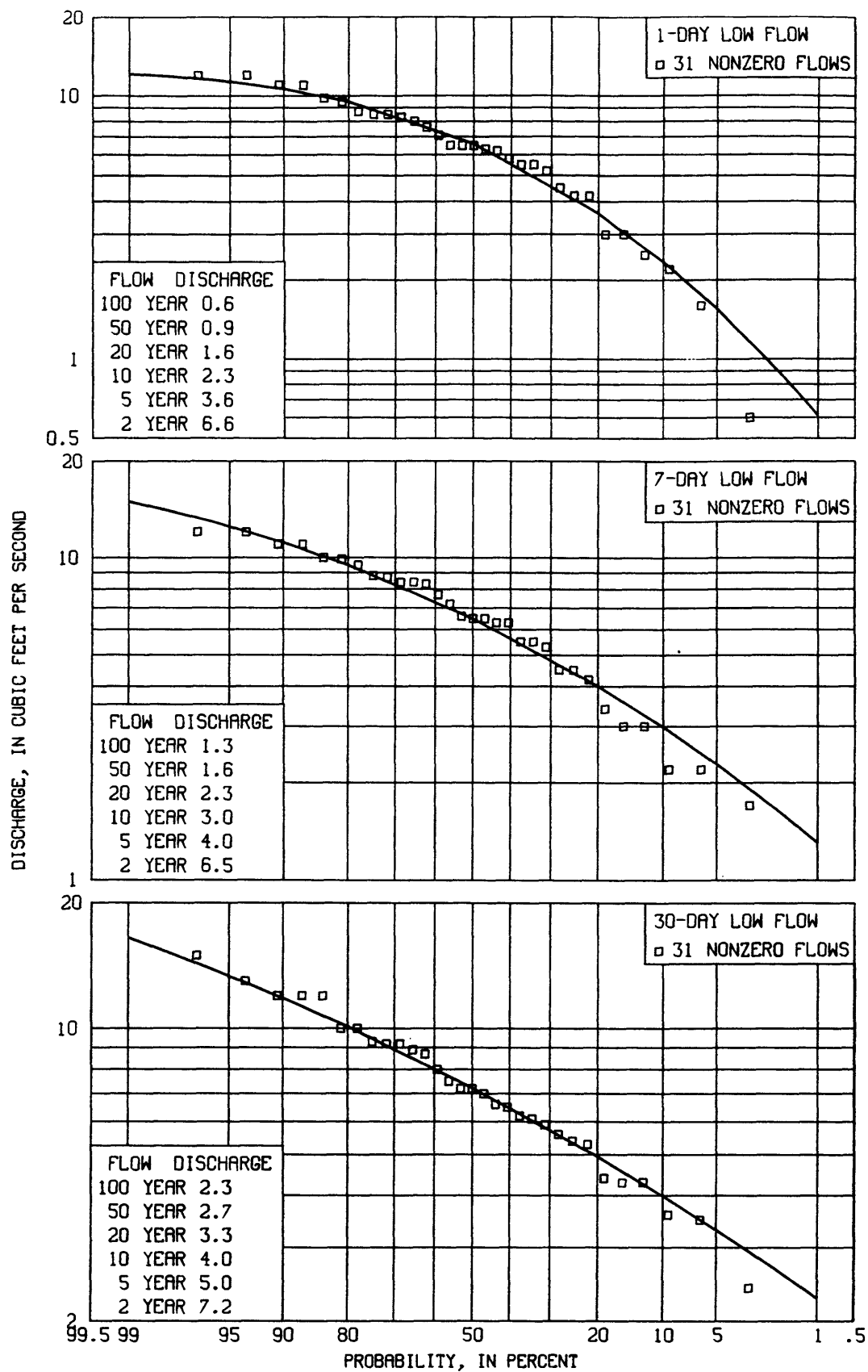
STATION 5128500 PIKE RIVER NEAR EMBARRASS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



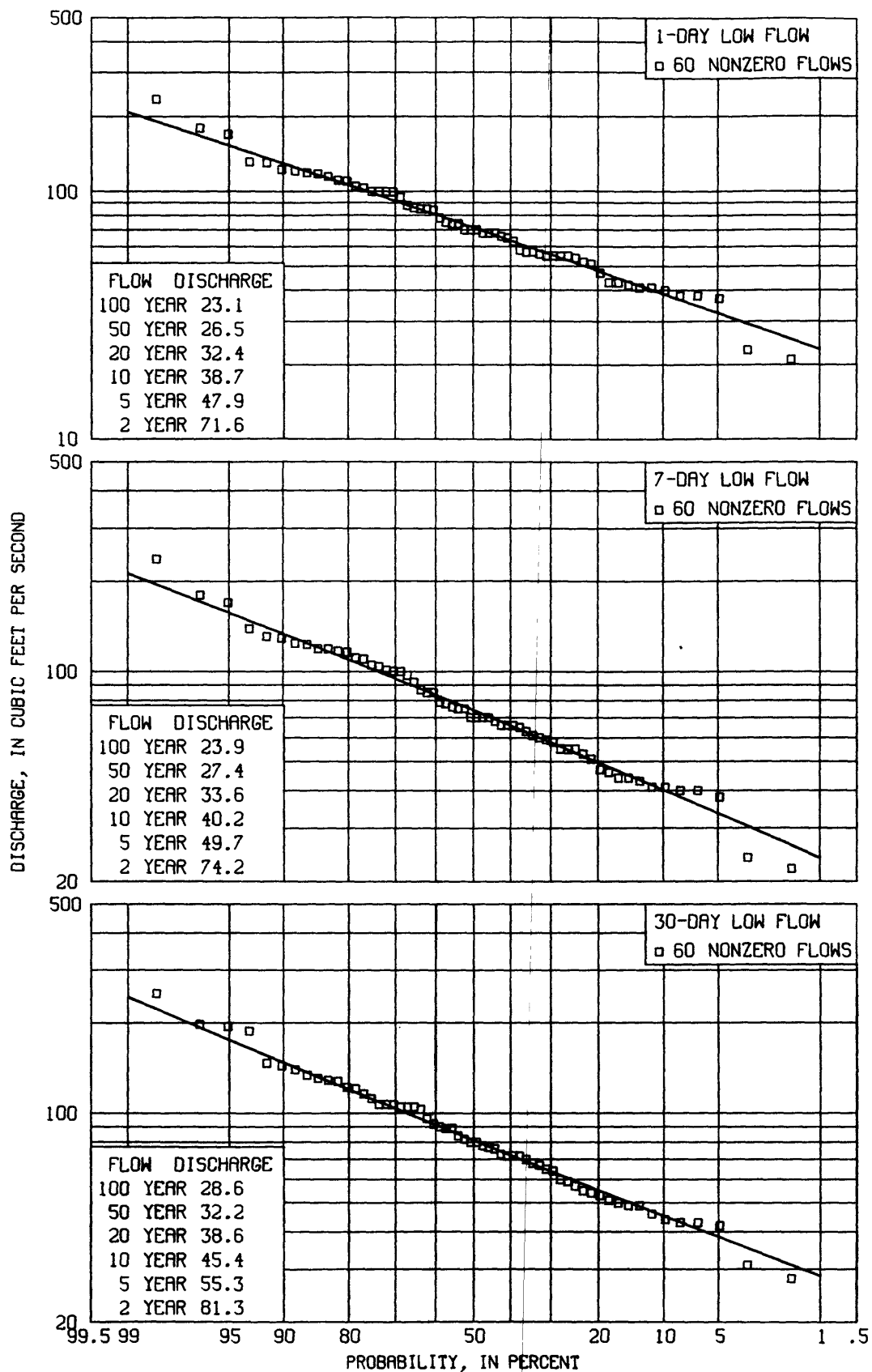
STATION 5129000 VERMILION RIVER BELOW VERMILION LAKE NEAR TOWER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



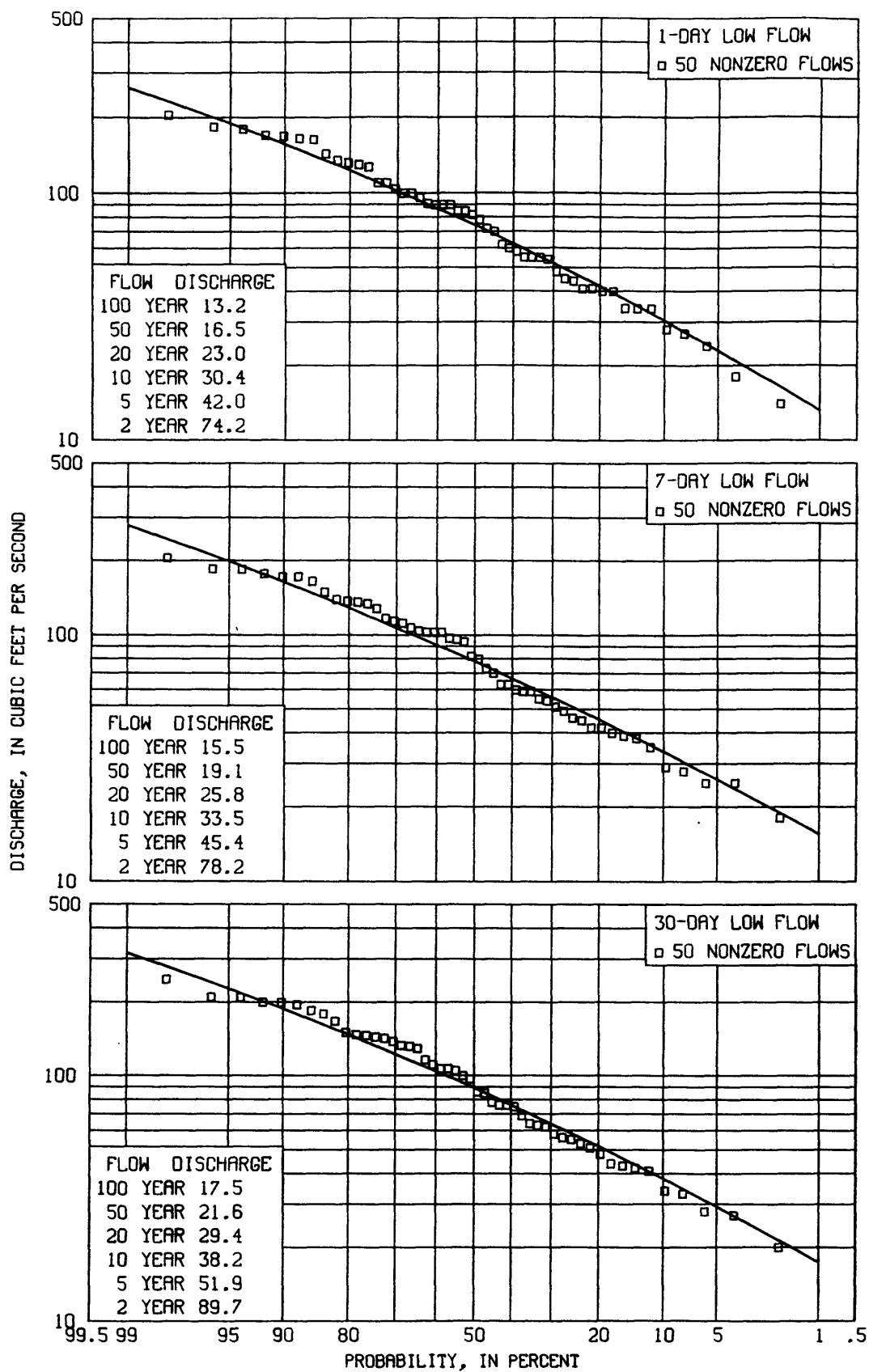
STATION 5130500 STURGEON RIVER NEAR CHISHOLM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



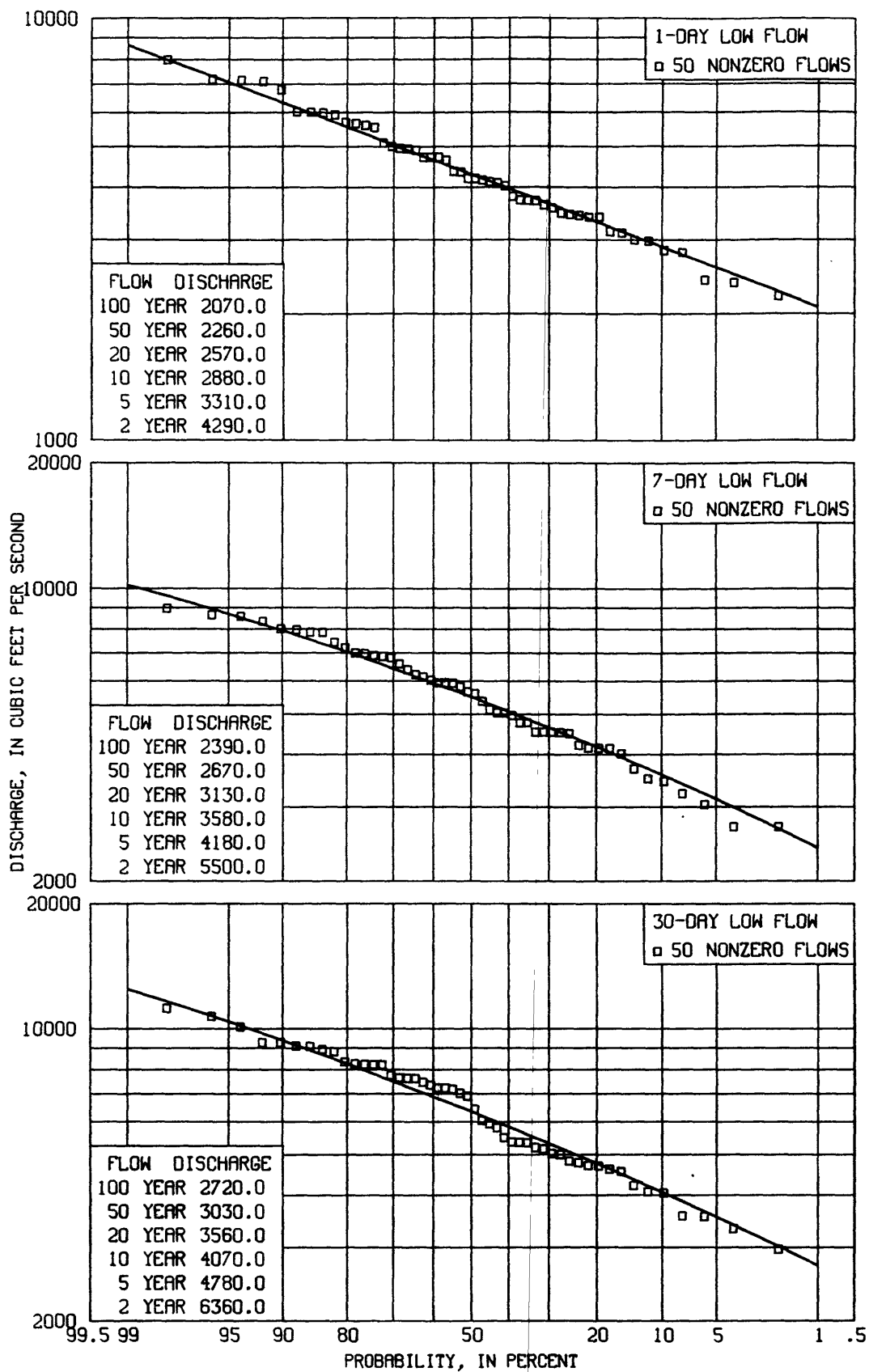
STATION 5131000 DARK RIVER NEAR CHISHOLM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



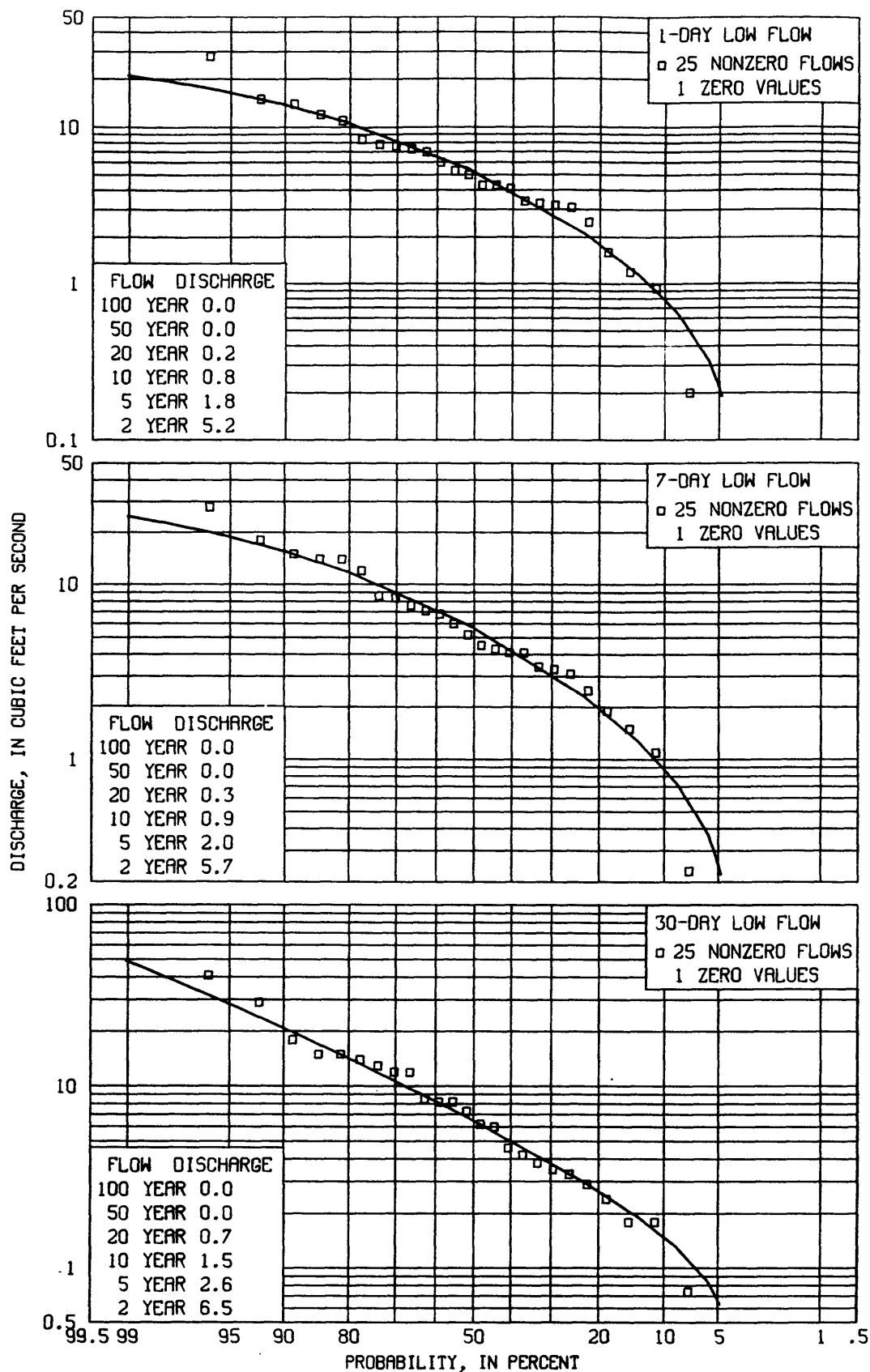
STATION 5131500 LITTLE FORK RIVER AT LITTLEFORK
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



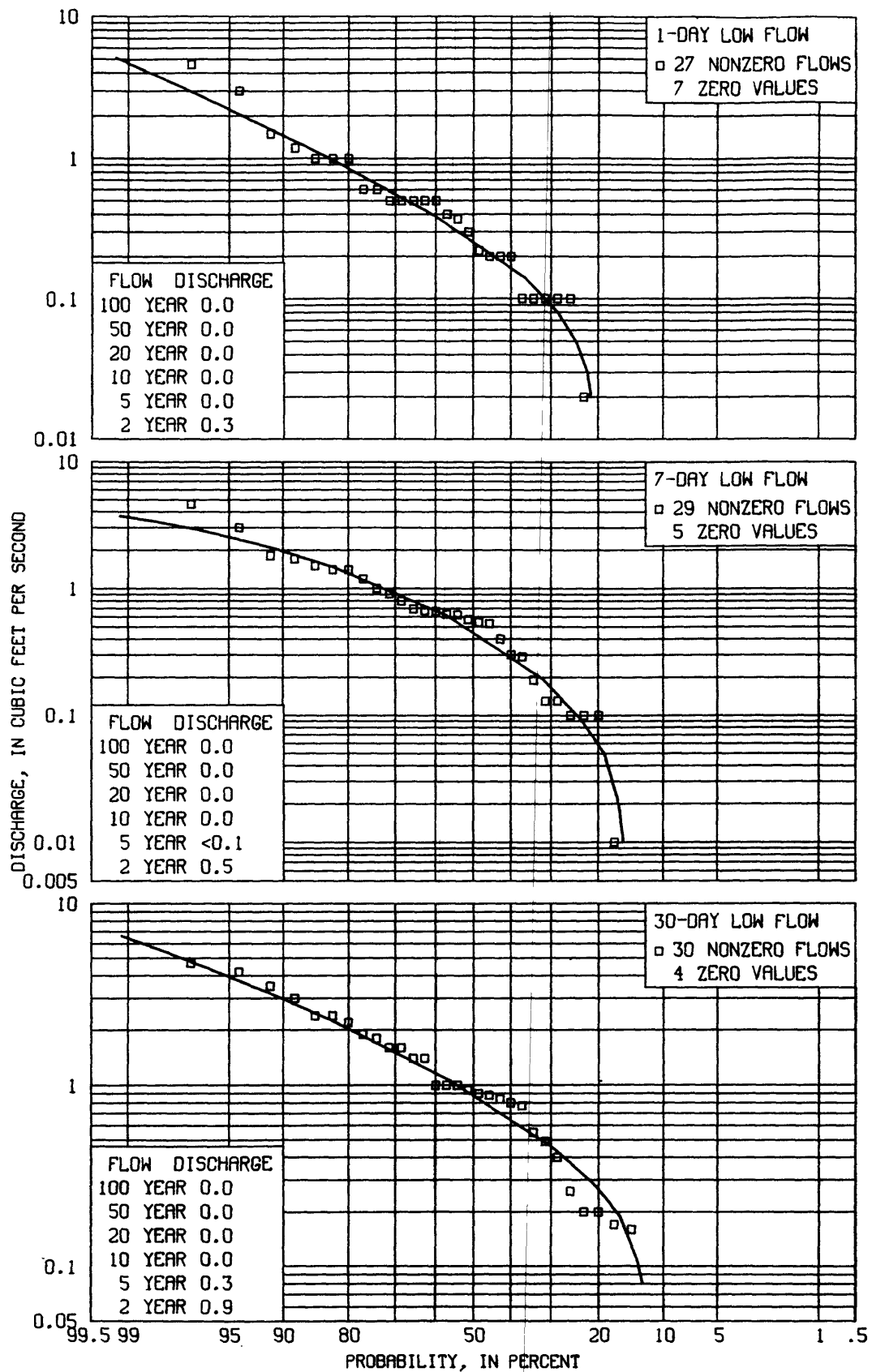
STATION 5132000 BIG FORK RIVER AT BIG FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



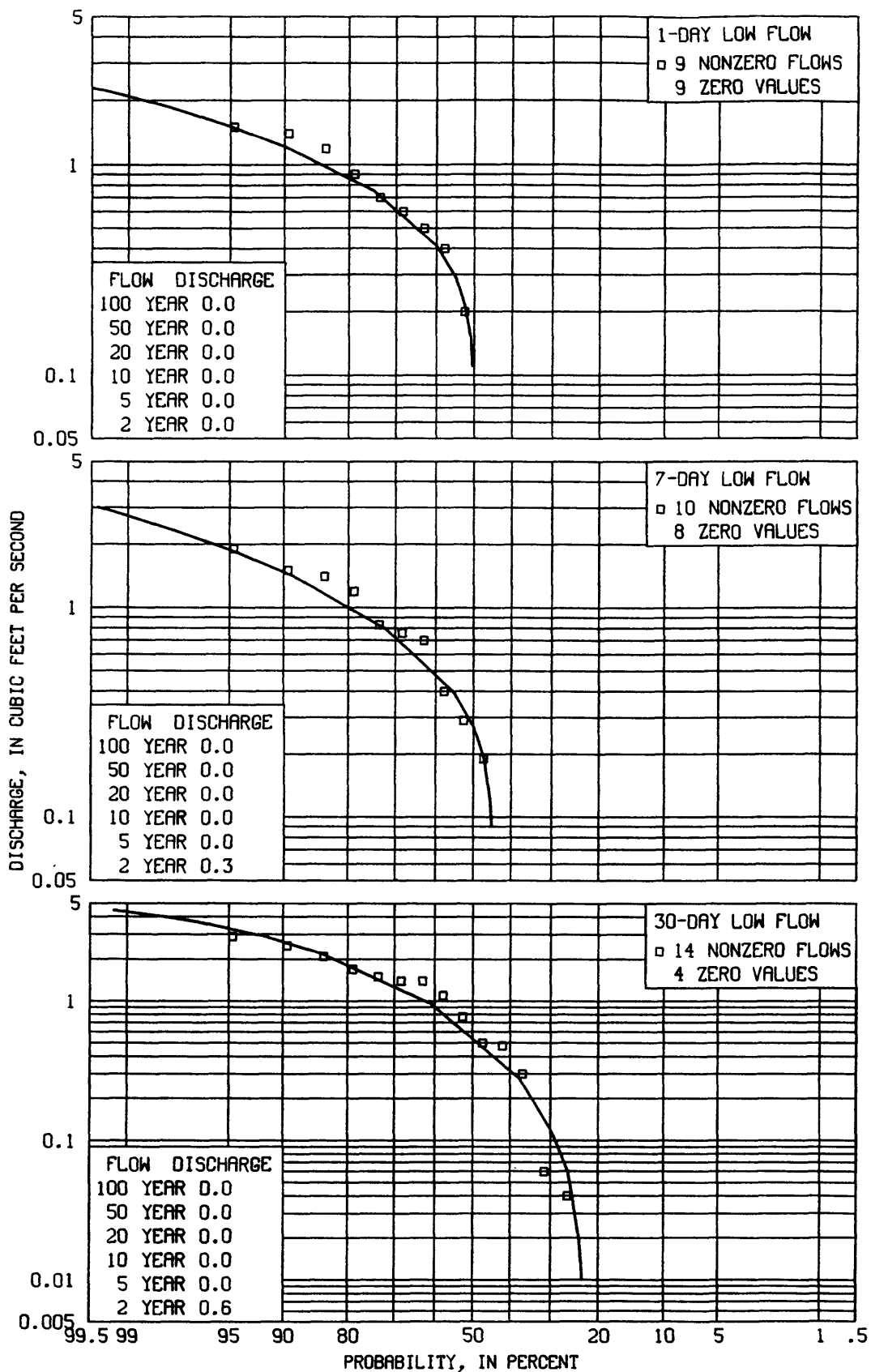
STATION 5133500 RAINY RIVER AT MANITOU RAPIDS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



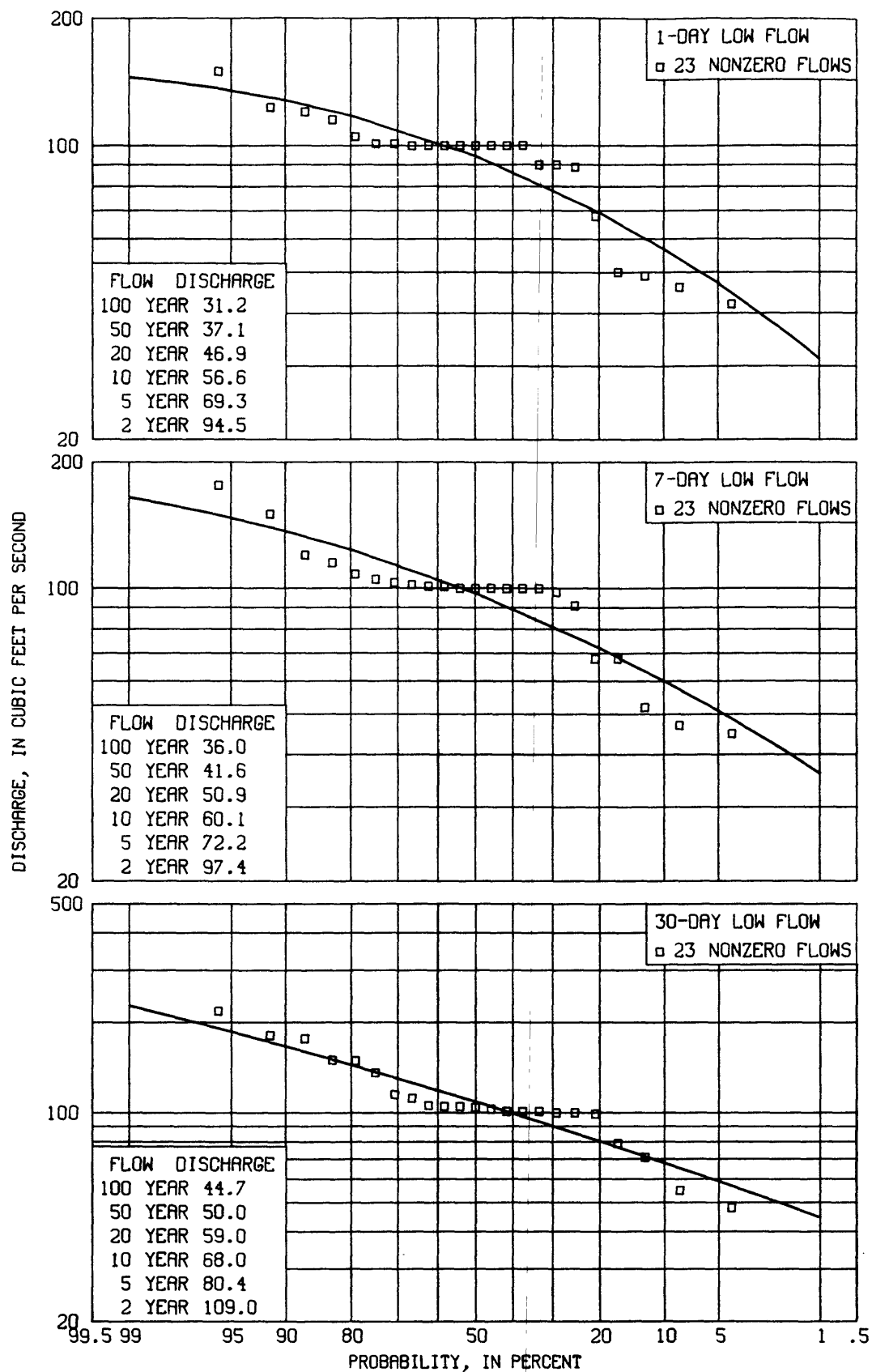
STATION 5134200 RAPID RIVER NEAR BAUDETTE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



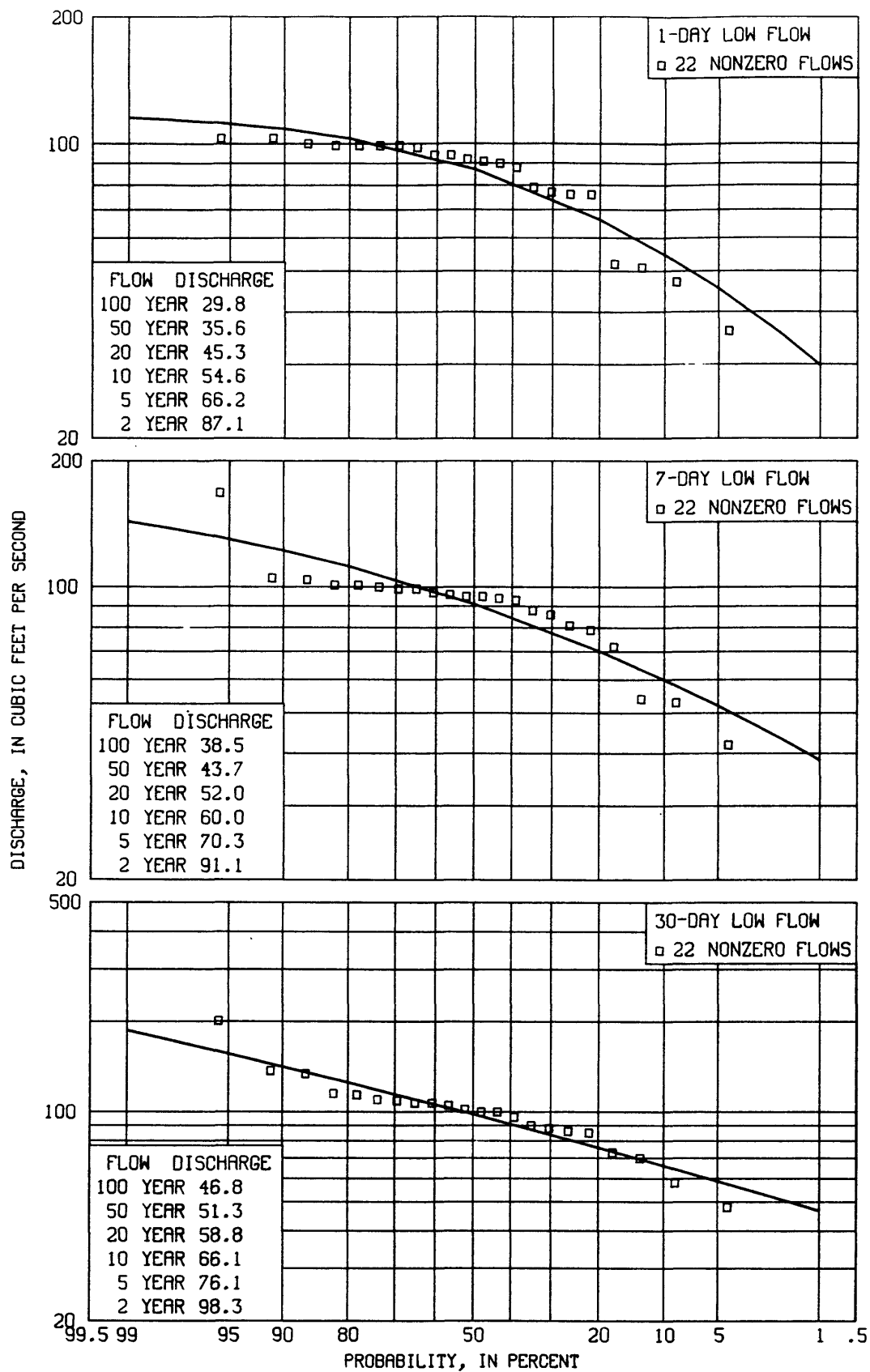
STATION 5139500 WARROAD RIVER NEAR WARROAD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



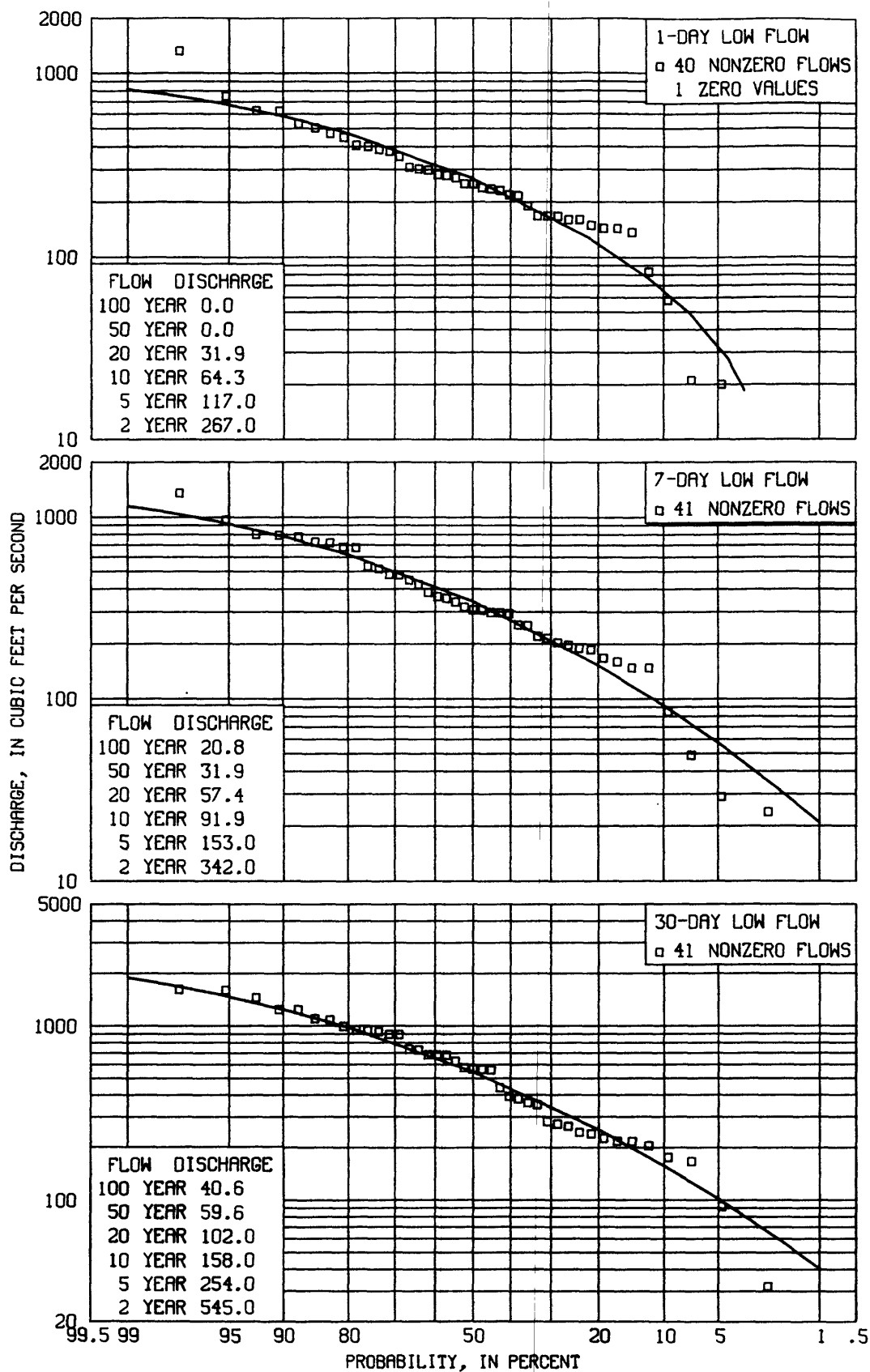
STATION 5140500 EAST BRANCH WARROAD RIVER NEAR WARROAD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



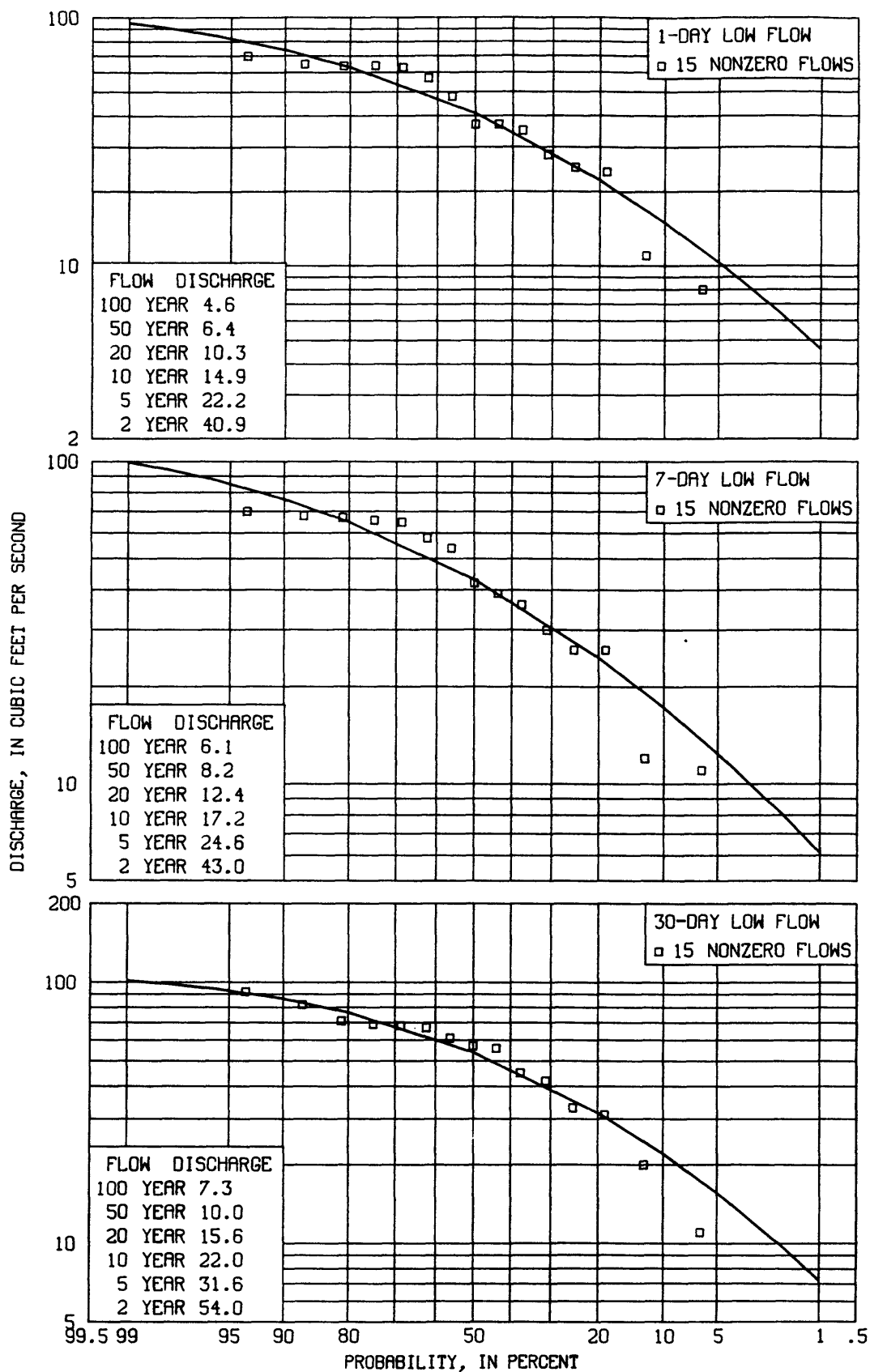
STATION 5201500 MISSISSIPPI RIVER AT WINNIBIGOSHISH DAM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



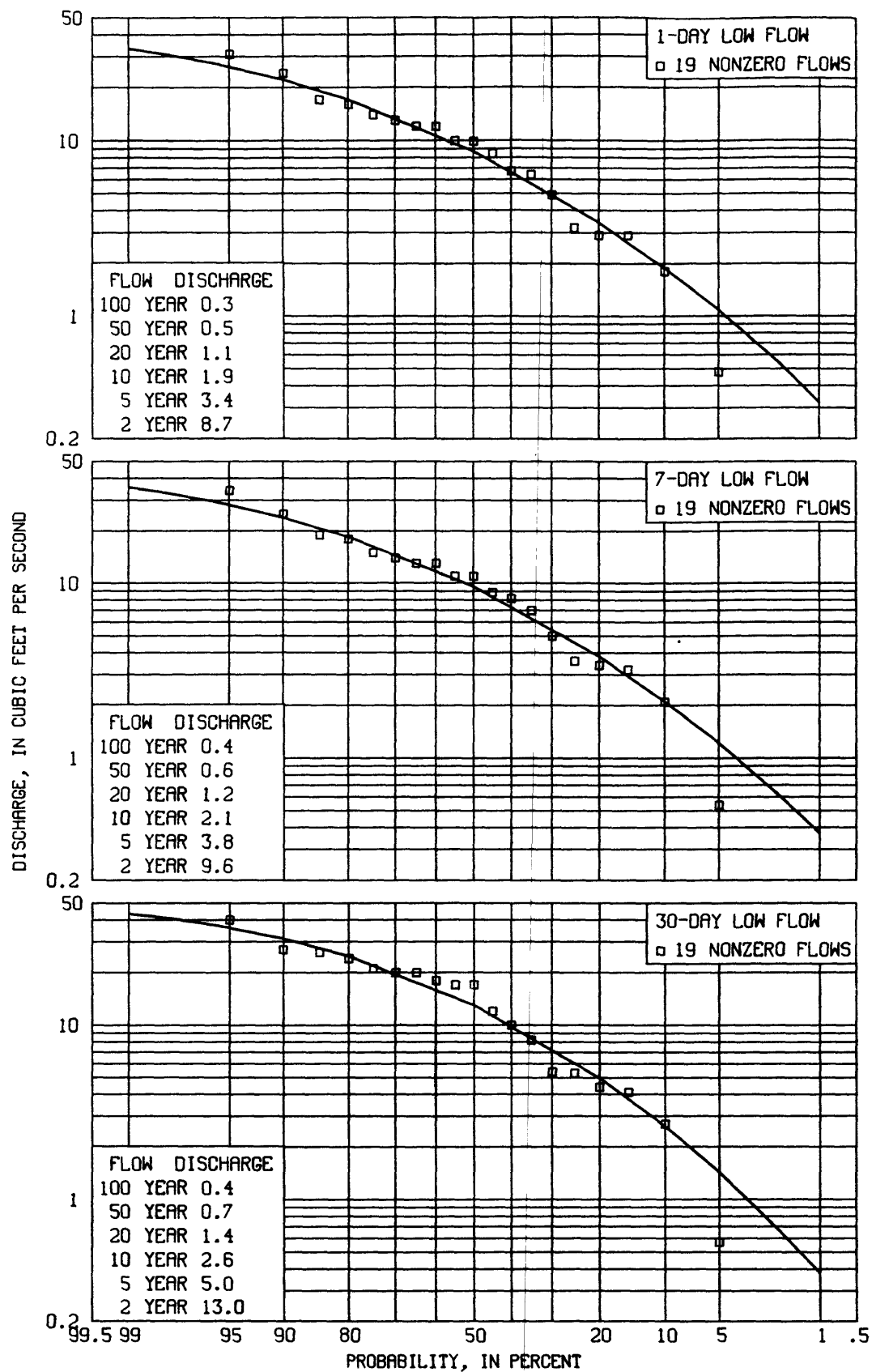
STATION 5206500 LEECH LAKE RIVER AT FEDERAL DAM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



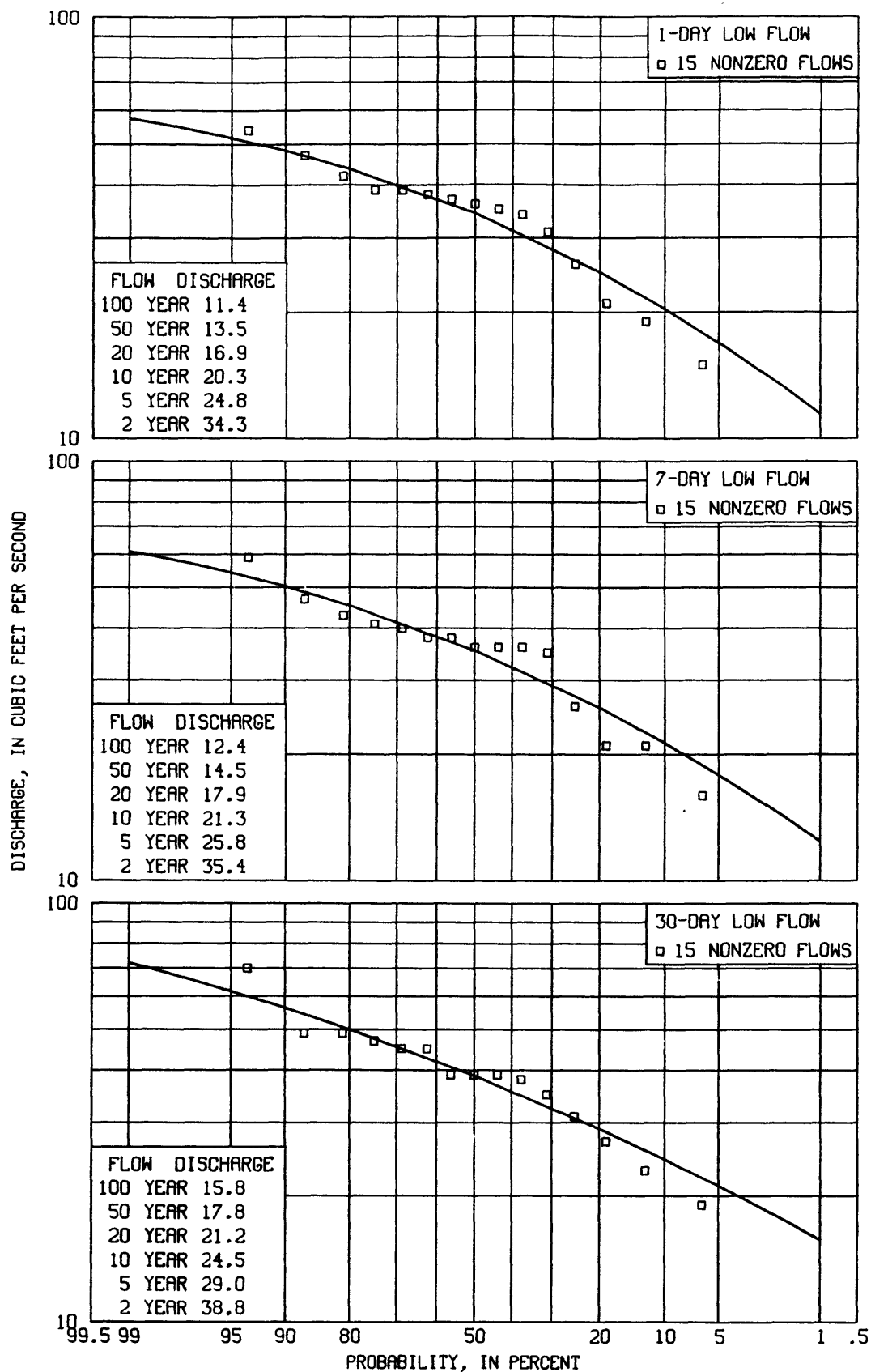
STATION 5211000 MISSISSIPPI RIVER AT GRAND RAPIDS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



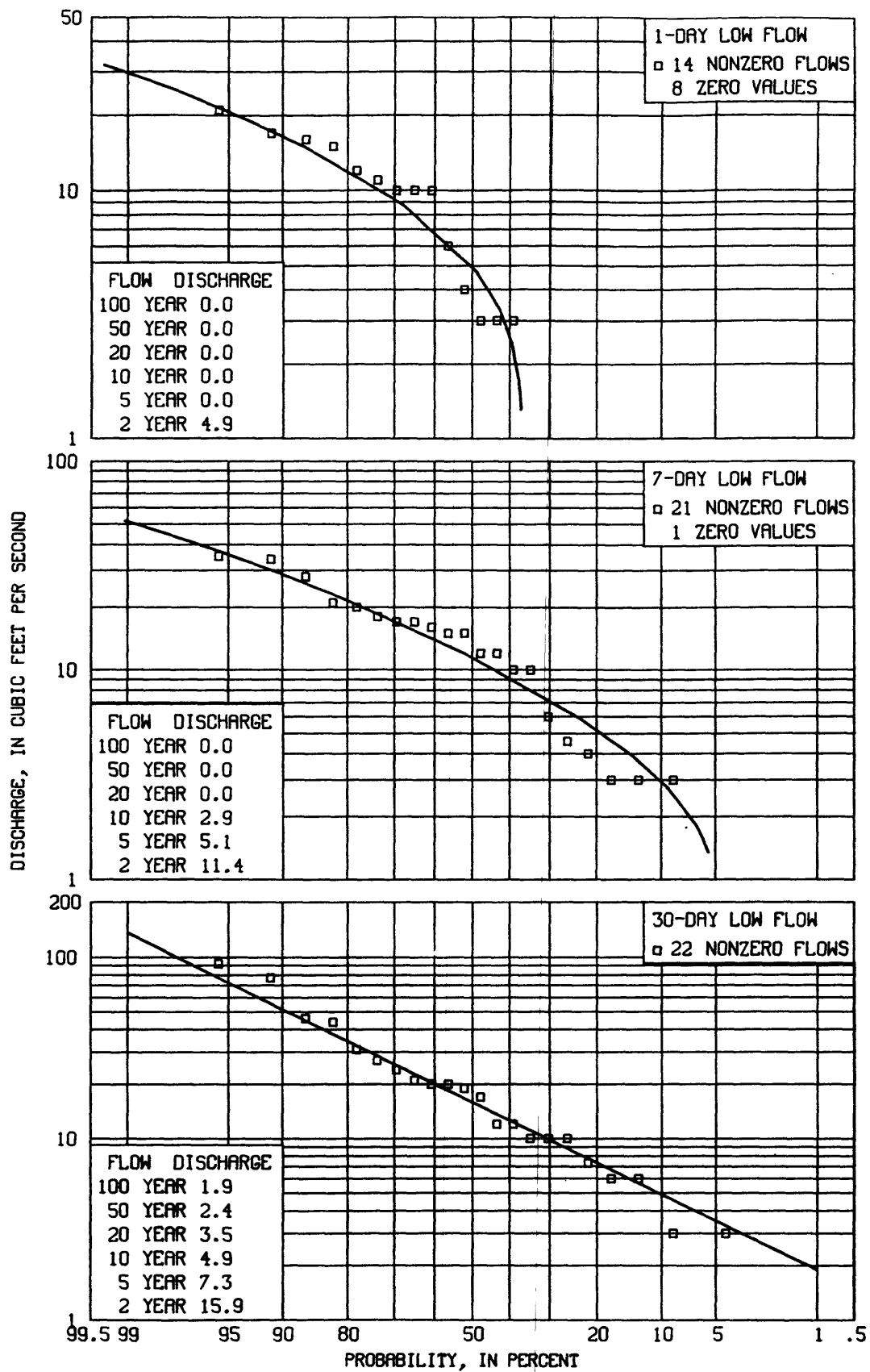
STATION 5212700 PRAIRIE RIVER NEAR TACONITE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



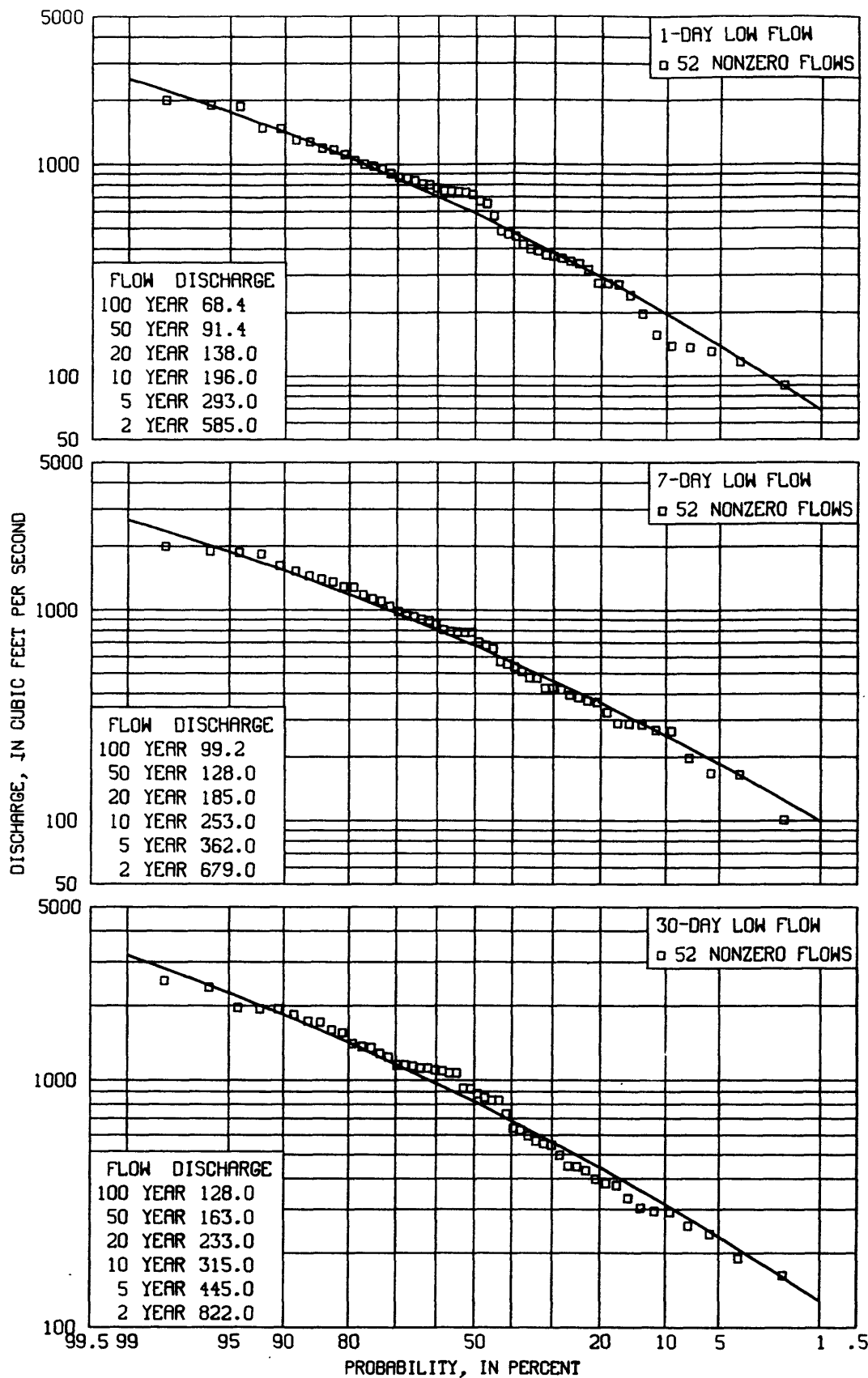
STATION 5216860 SWAN RIVER NEAR CALUMET
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



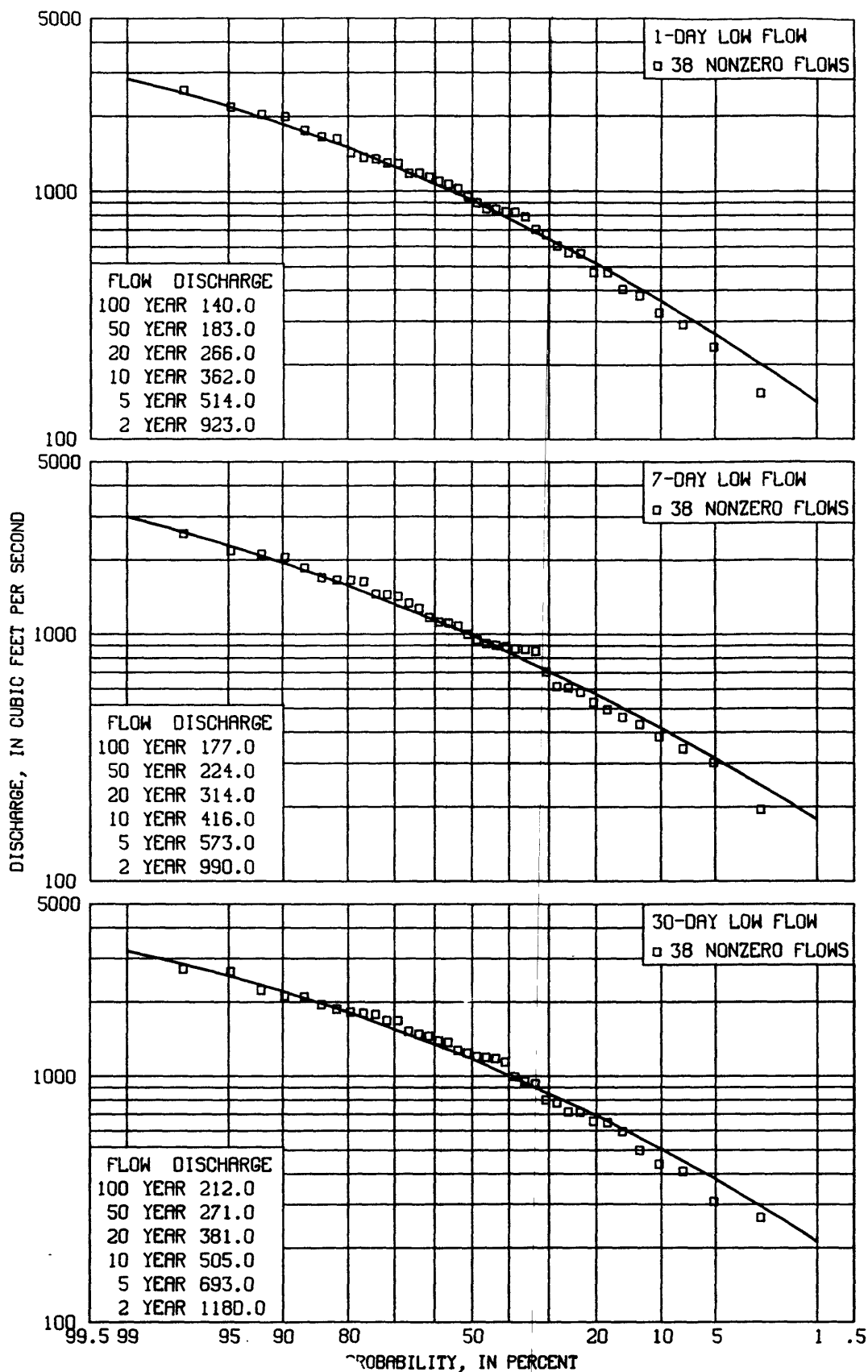
STATION 5217000 SWAN RIVER NEAR WARBA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



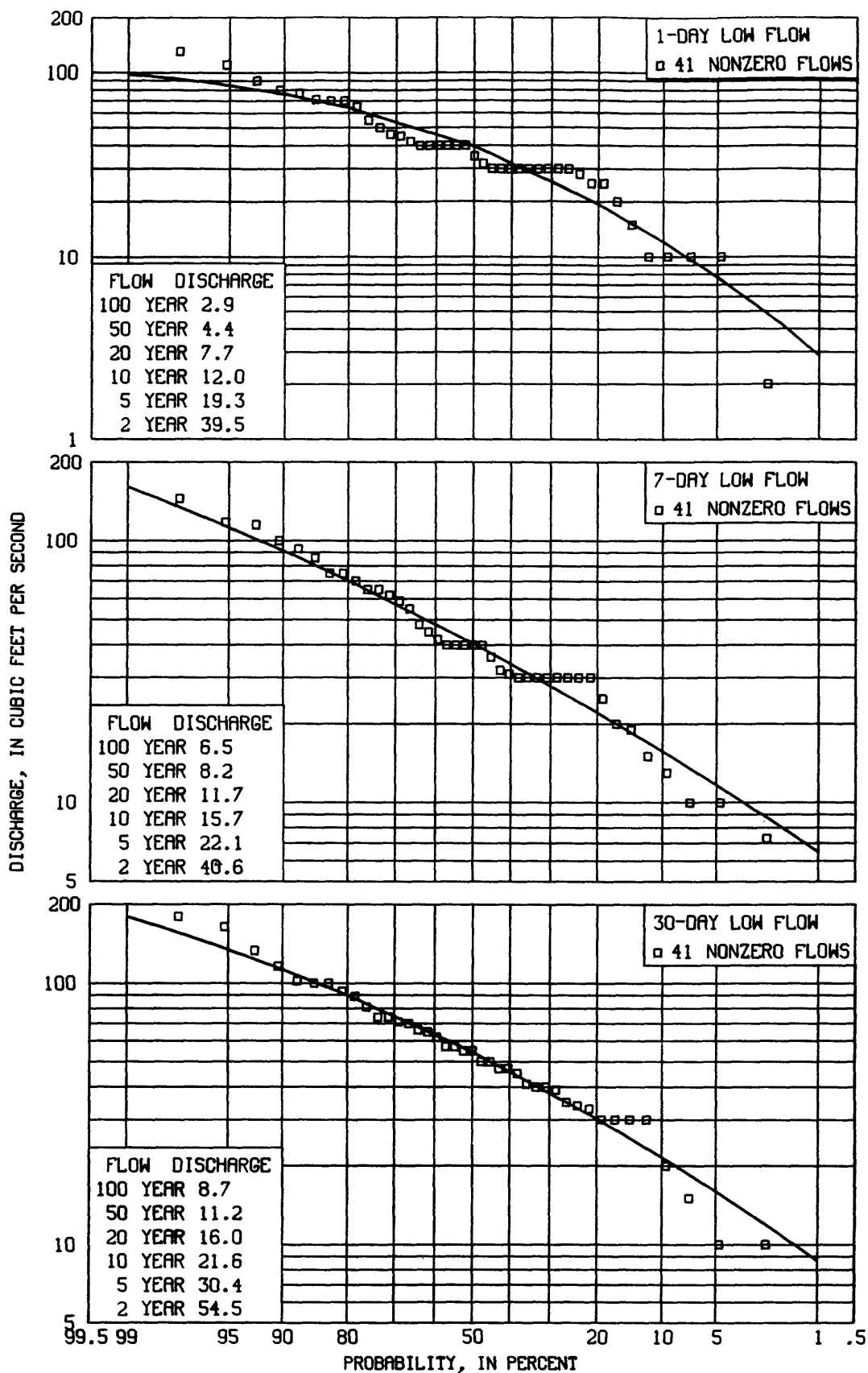
STATION 5219000 SANDY RIVER AT SANDY LAKE DAM, AT LIBBY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



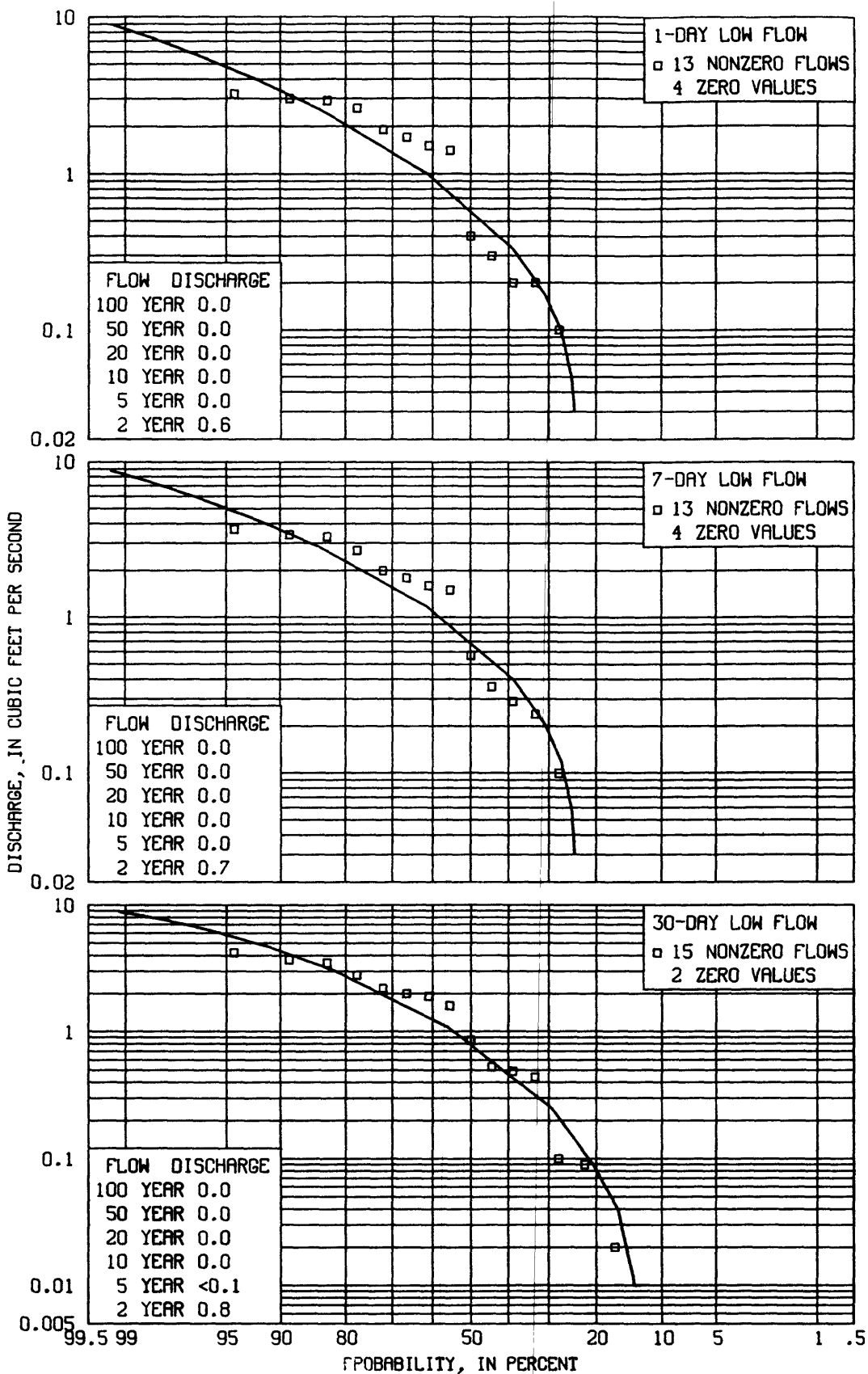
STATION 5220500 MISSISSIPPI RIVER BELOW SANDY RIVER NR LIBBY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



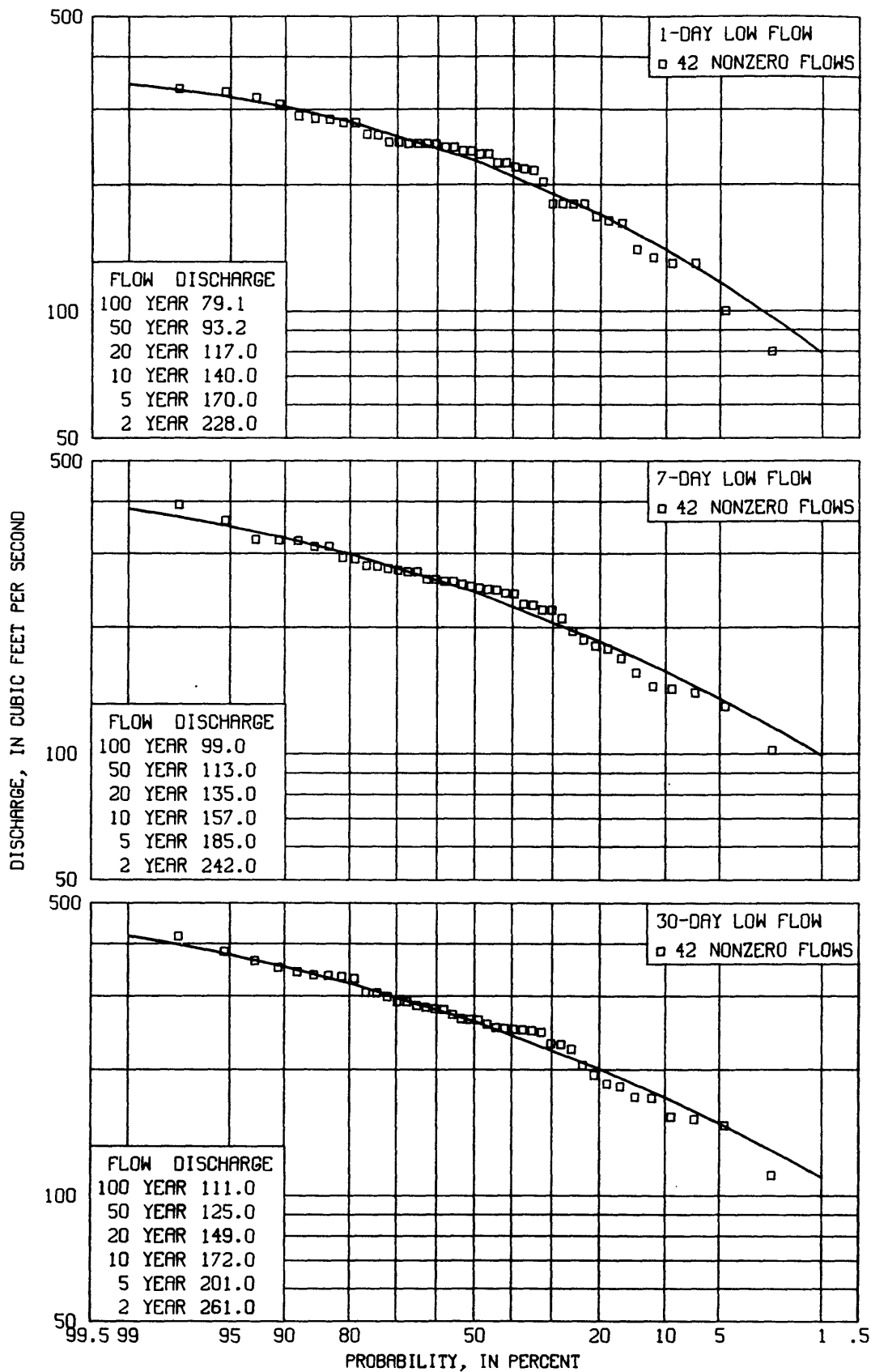
STATION 5227500 MISSISSIPPI RIVER AT AITKIN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



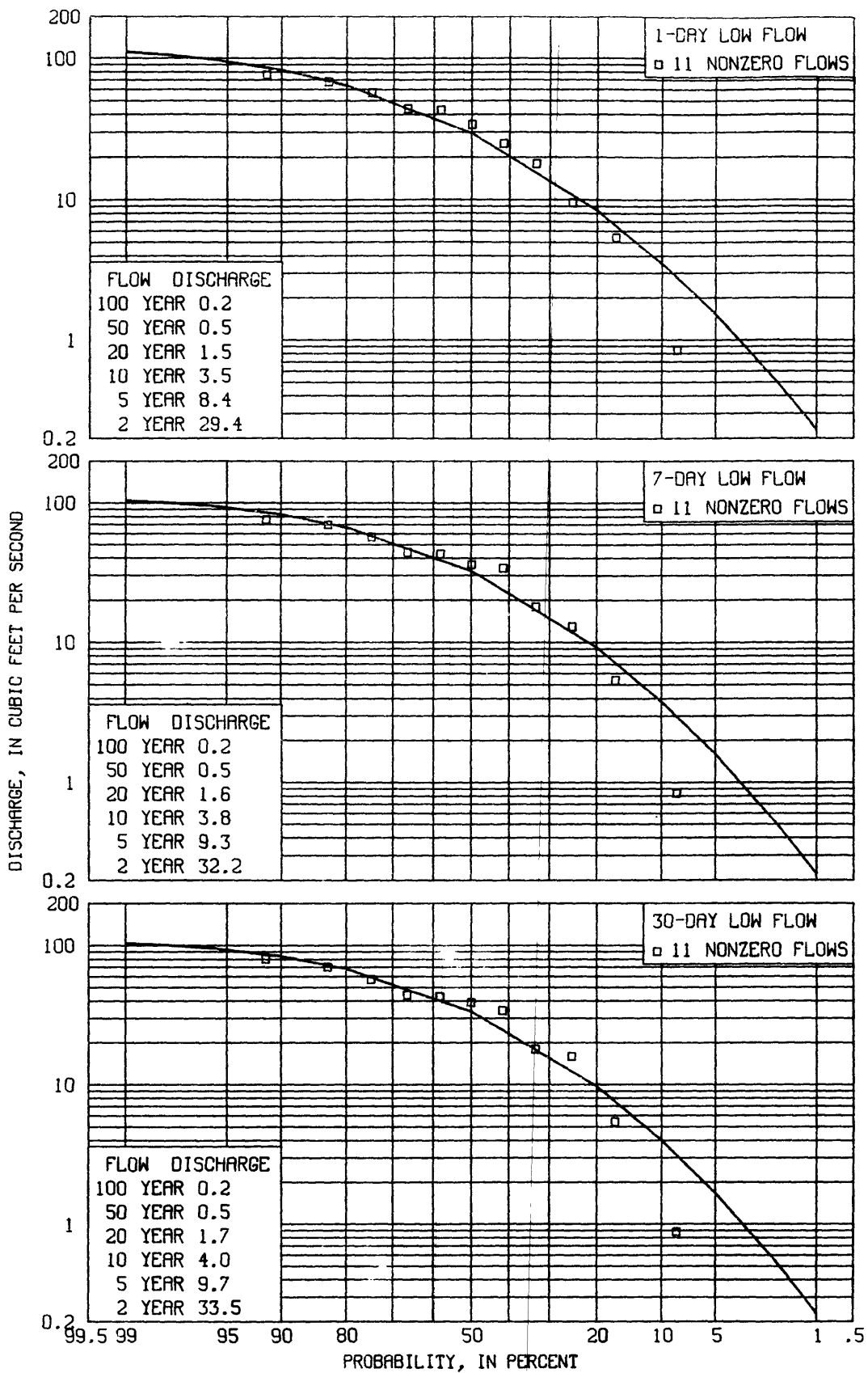
STATION 5231000 PINE RIVER AT CROSS LAKE DAM, AT CROSS LAKE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



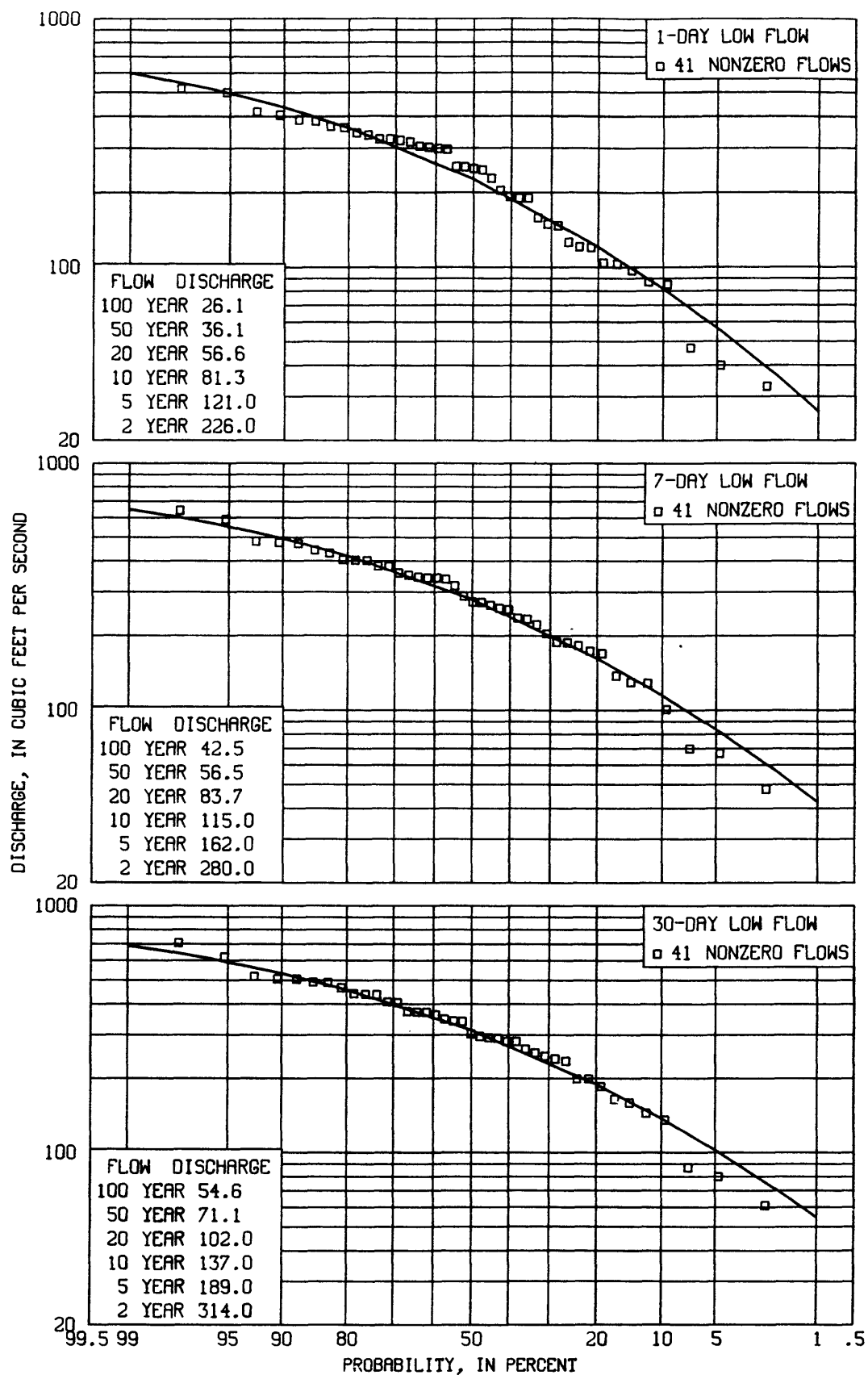
STATION 5241500 RABBIT RIVER NEAR CROSBY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



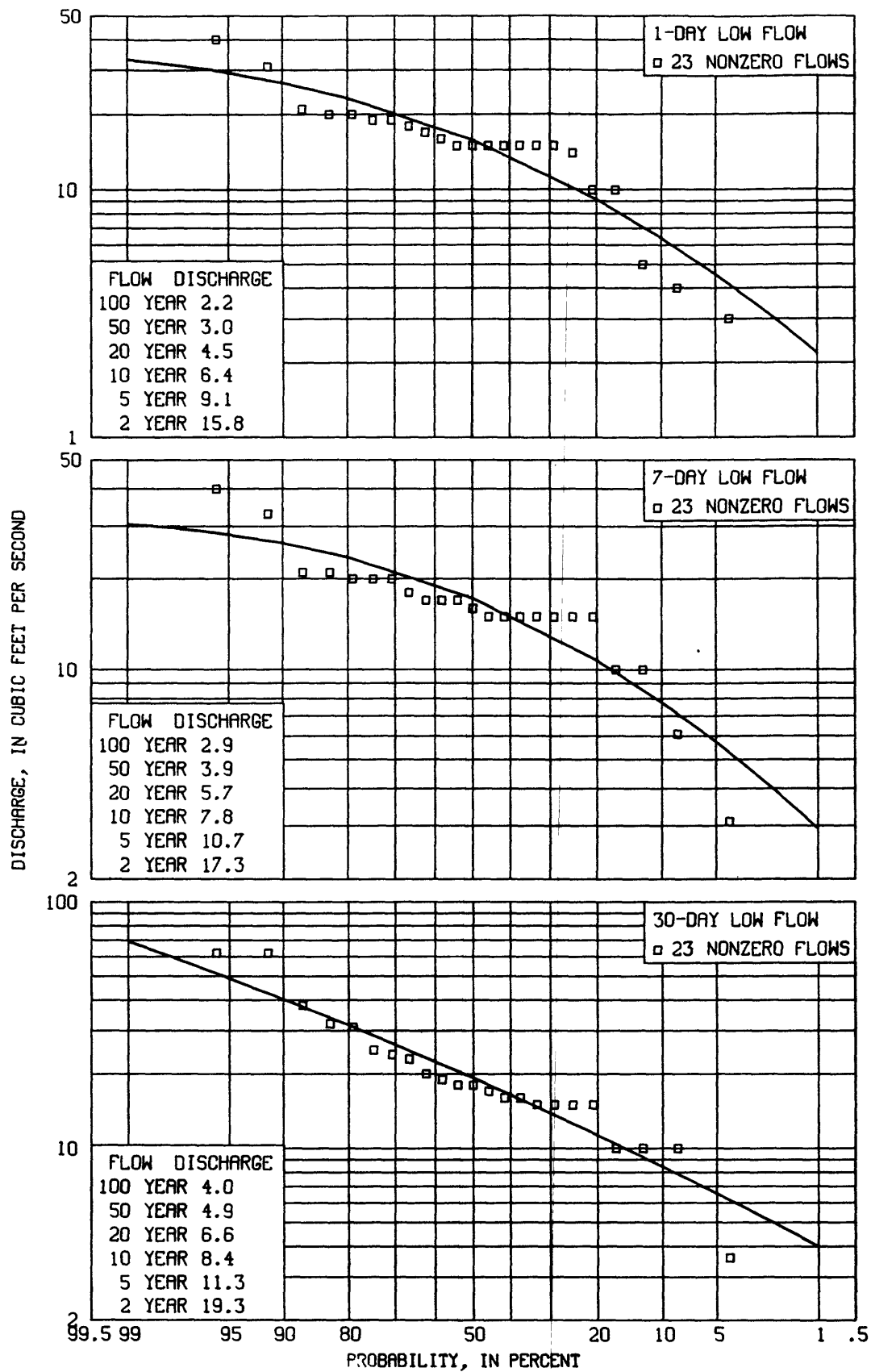
STATION 5244000 CROW WING RIVER AT NIMROD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



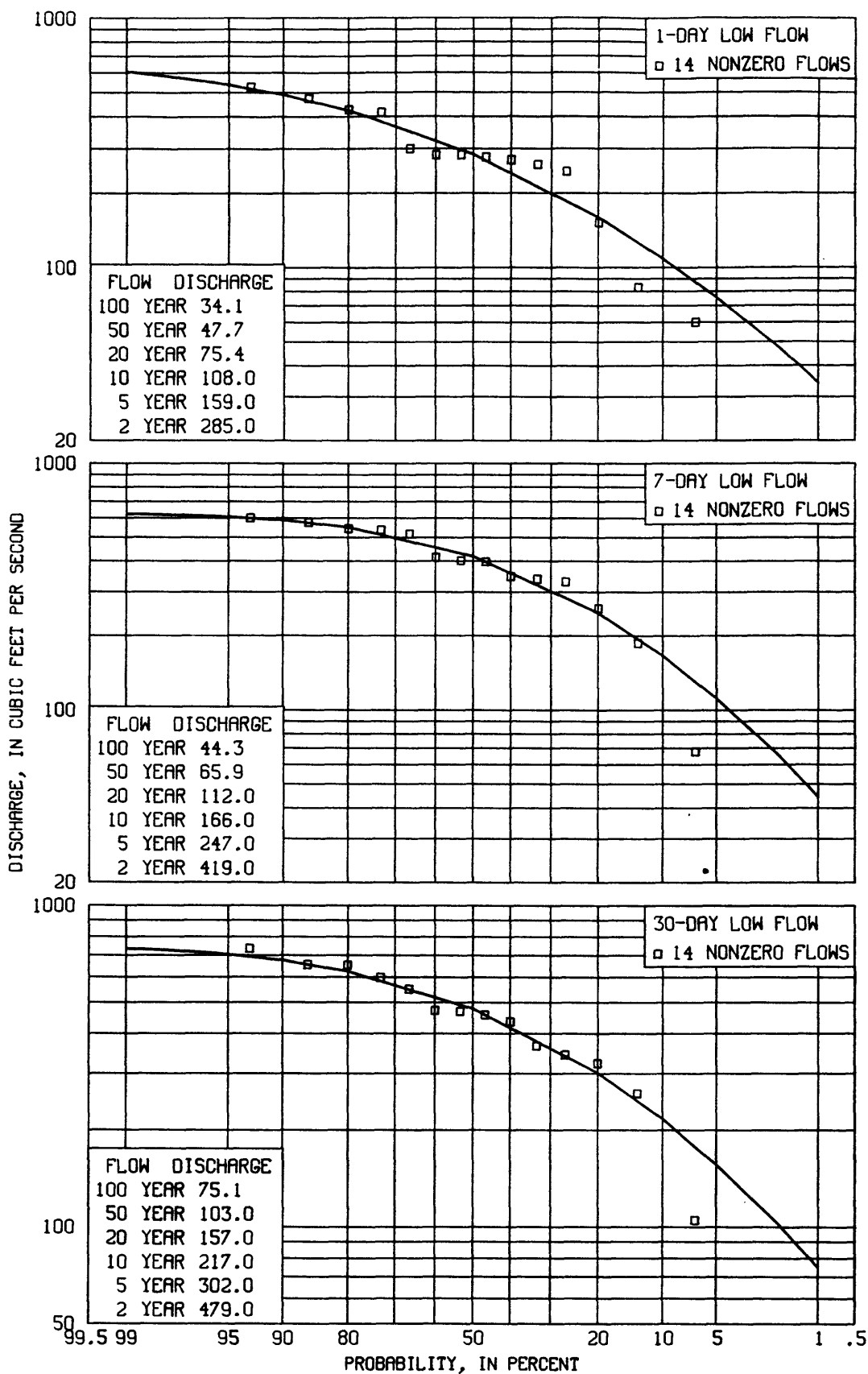
STATION 5245100 LONG PRAIRIE RIVER AT LONG PRAIRIE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



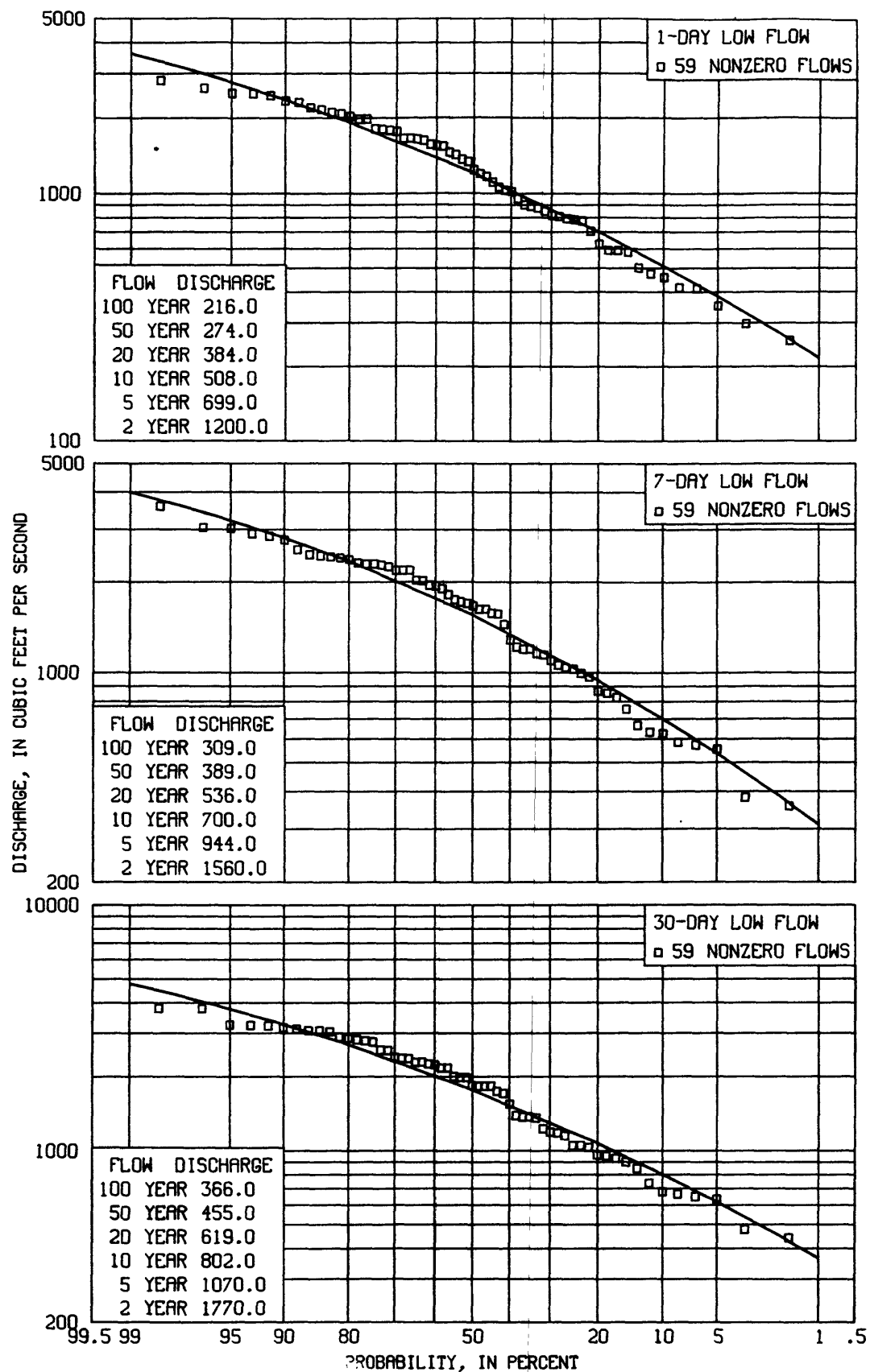
STATION 5246000 CROW WING RIVER AT PILLAGER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



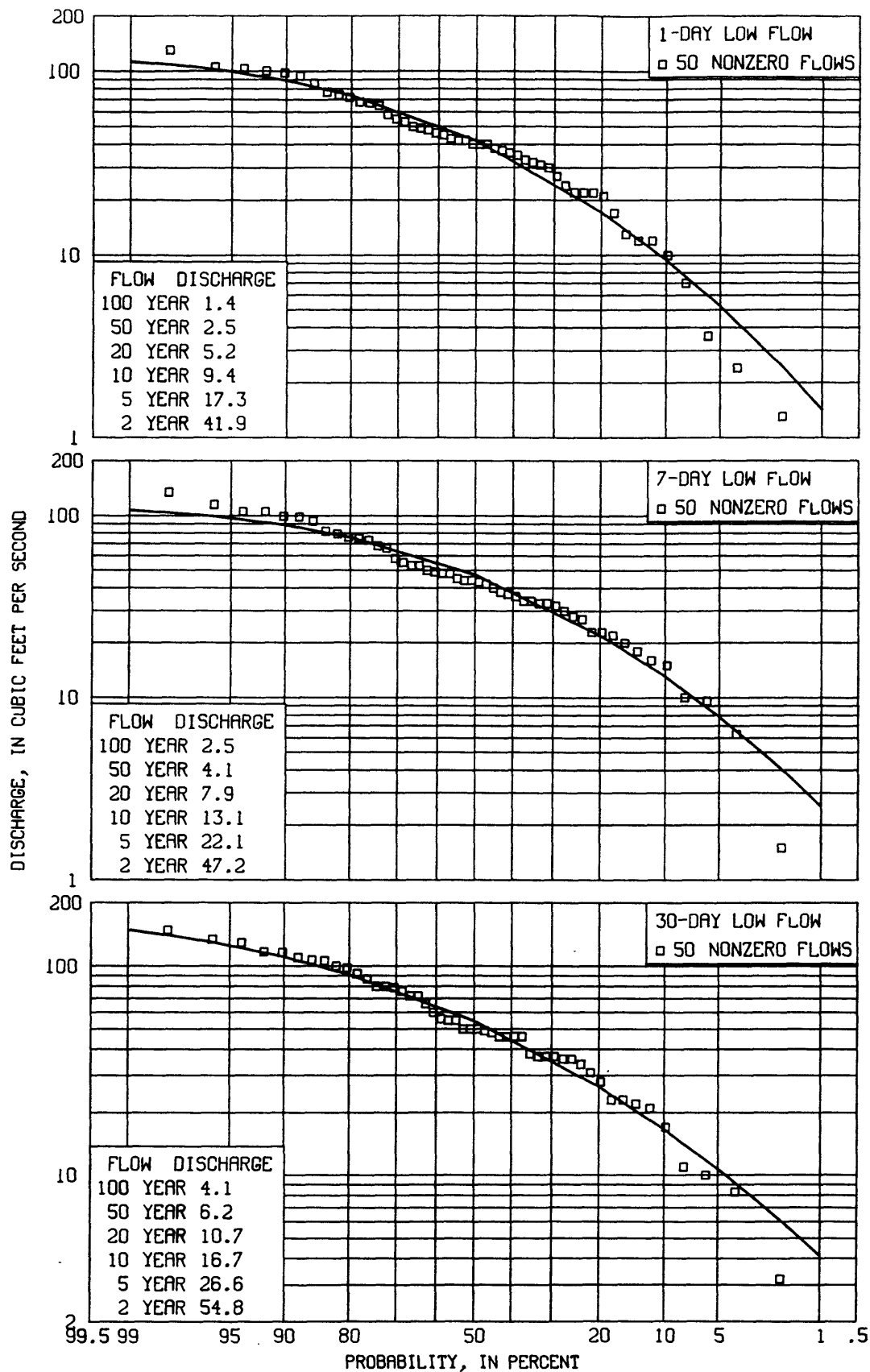
STATION 5247000 GULL RIVER AT GULL LAKE DAM NEAR BRAINERD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



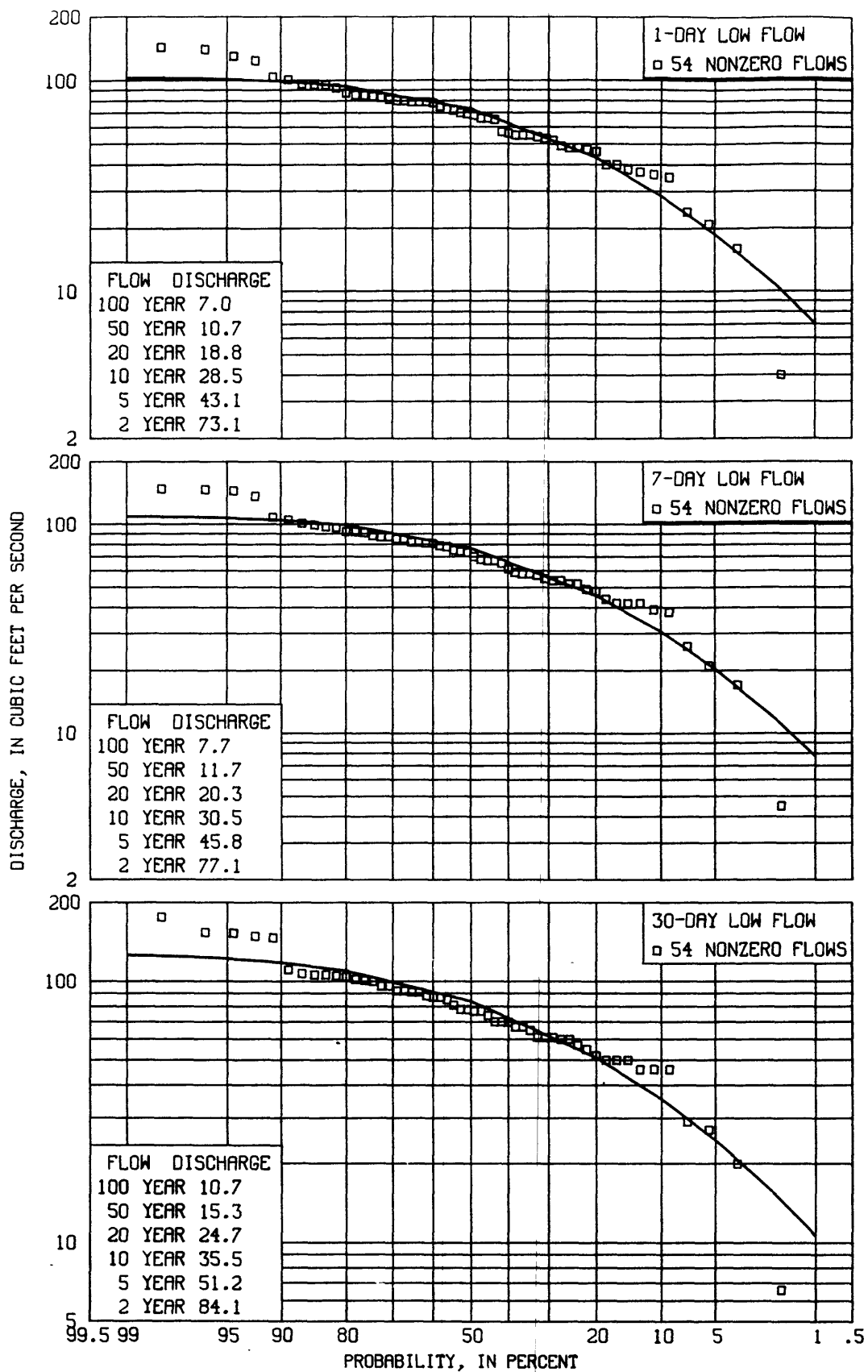
STATION 5247500 CROW WING RIVER NEAR PILLAGER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



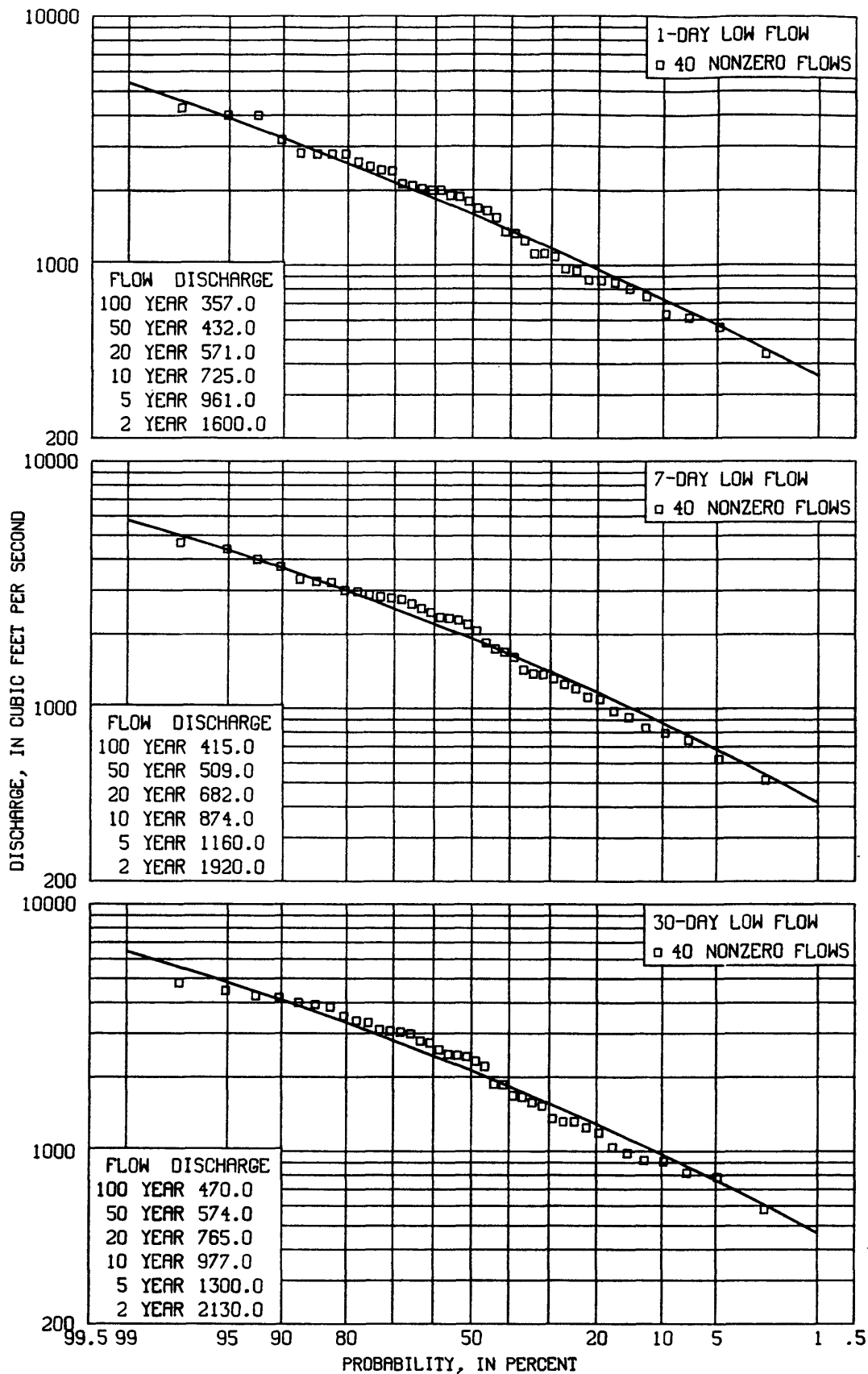
STATION 5267000 MISSISSIPPI RIVER NEAR ROYALTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



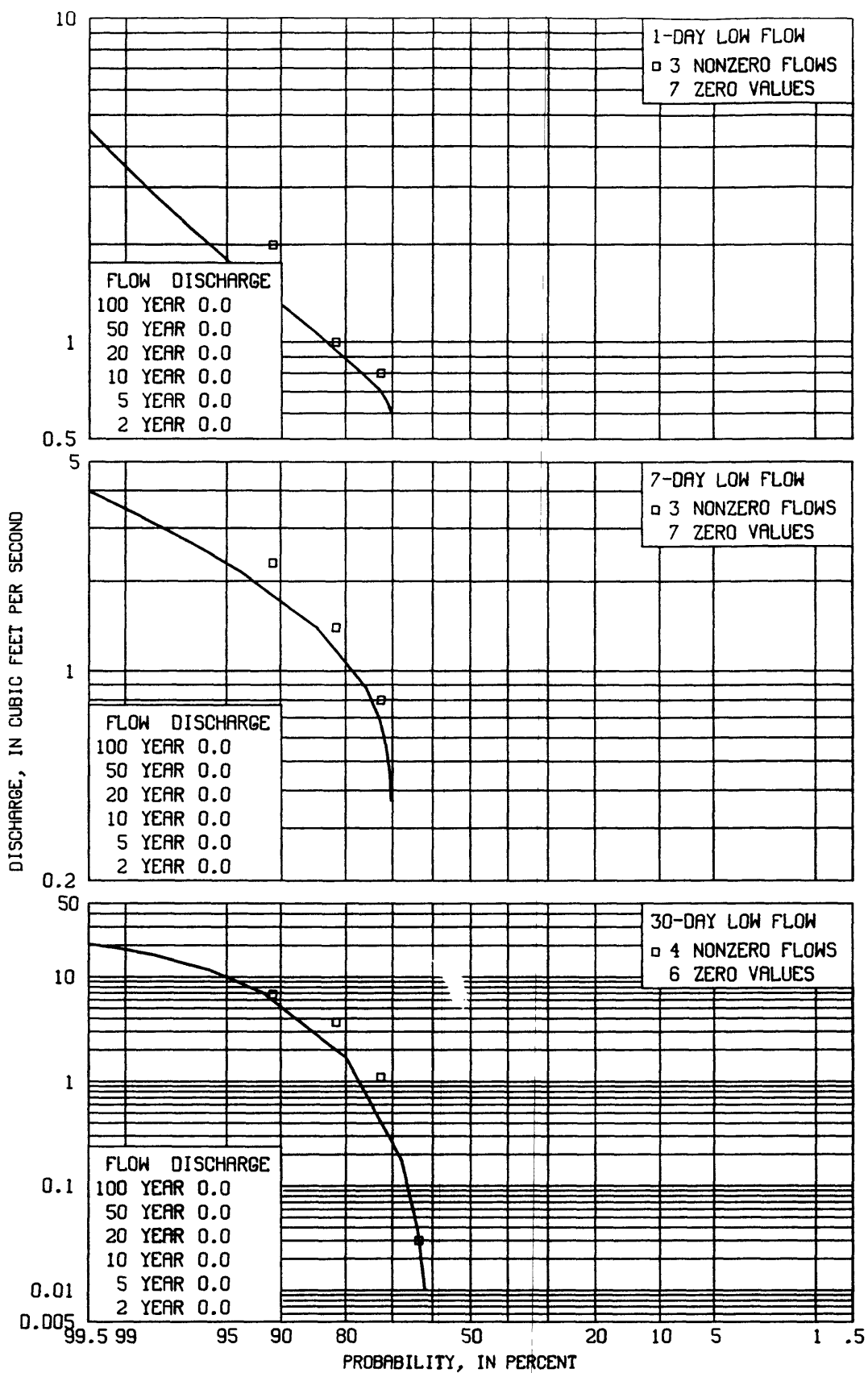
STATION 5270500 SAUK RIVER NEAR ST. CLOUD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



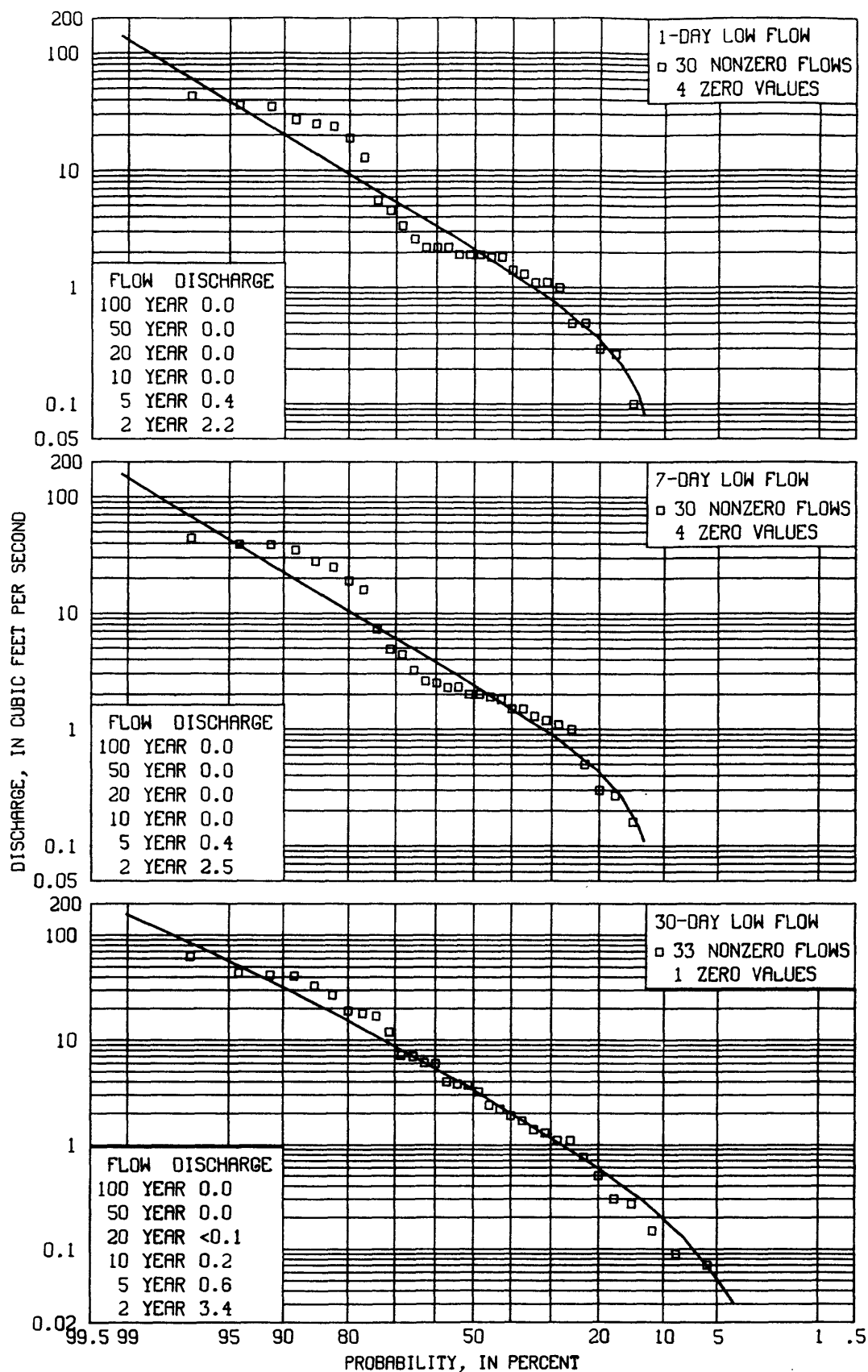
STATION 5275000 ELK RIVER NEAR BIG LAKE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



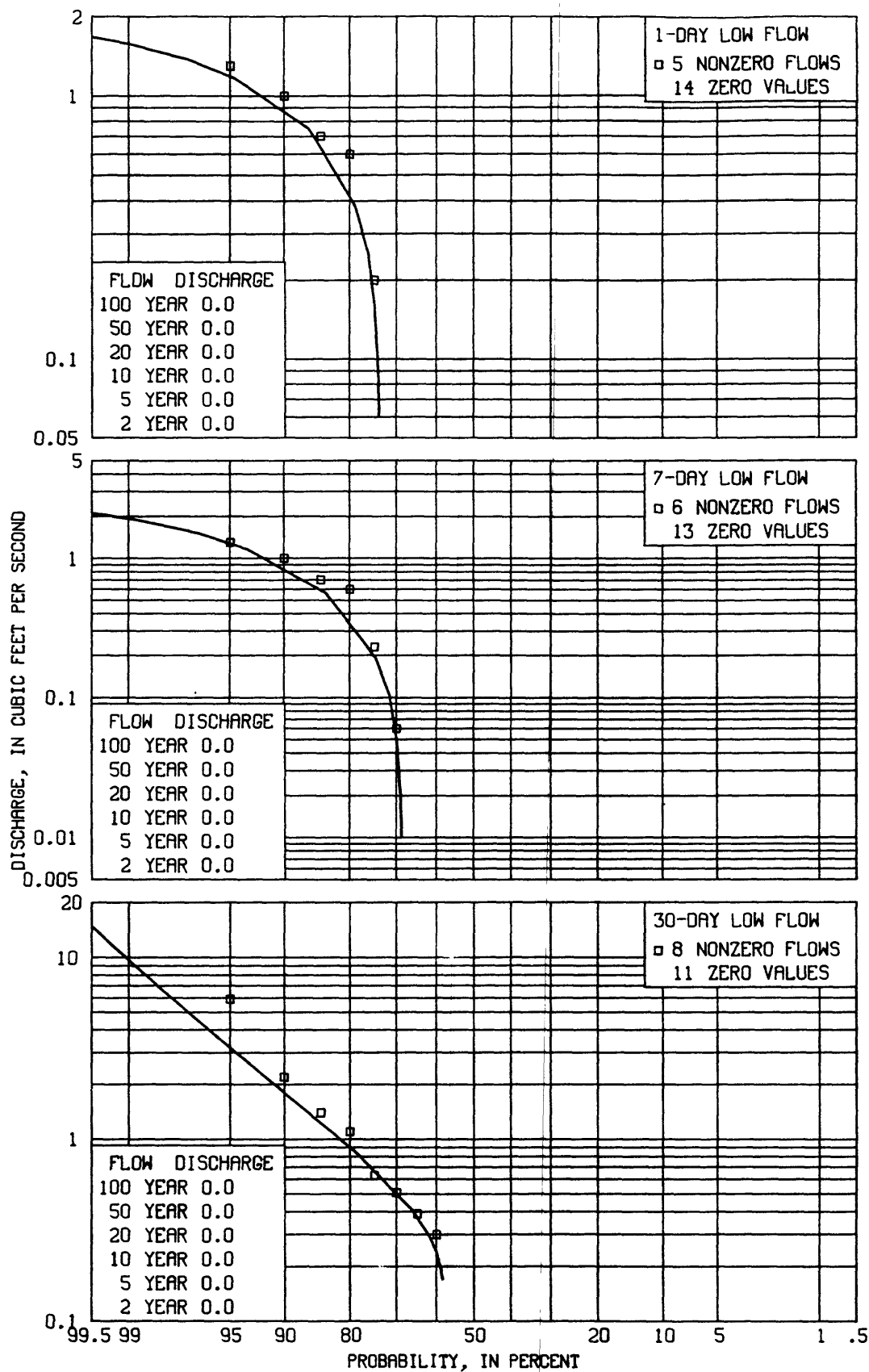
STATION 5275500 MISSISSIPPI RIVER AT ELK RIVER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



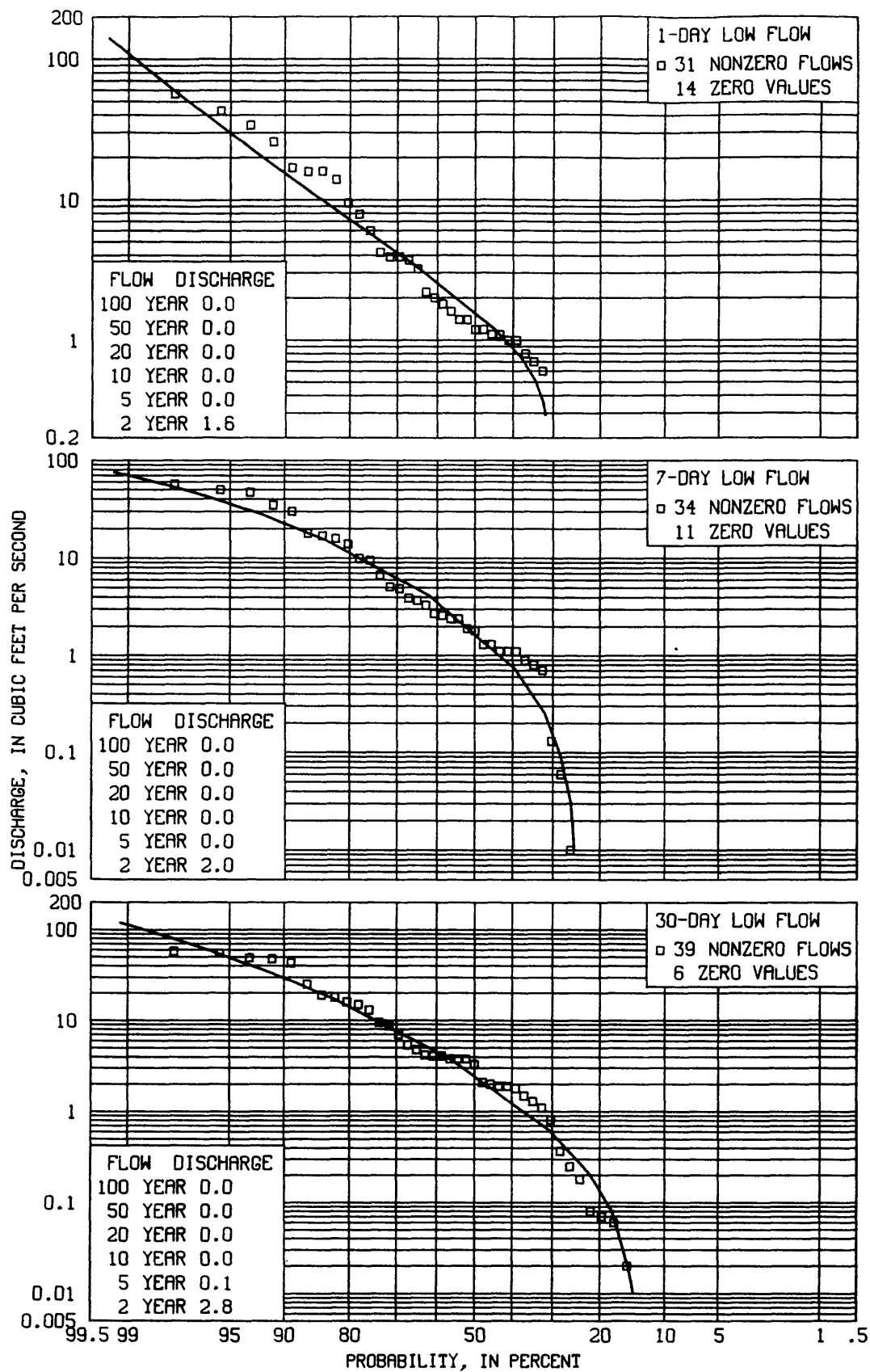
STATION 5276000 NORTH FORK CROW RIVER NEAR REGAL
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



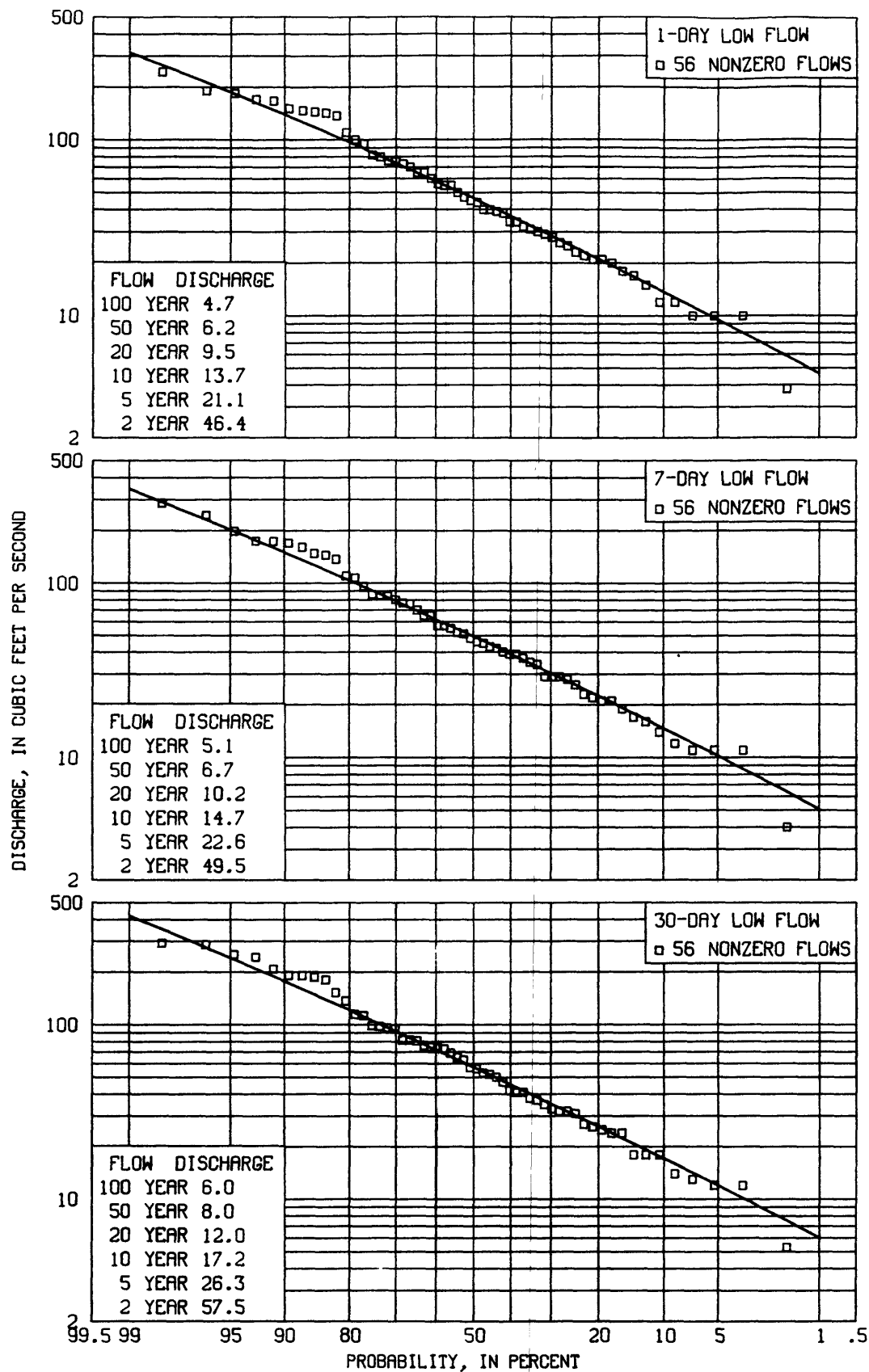
STATION 5278000 MIDDLE FORK CROW RIVER NEAR SPICER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



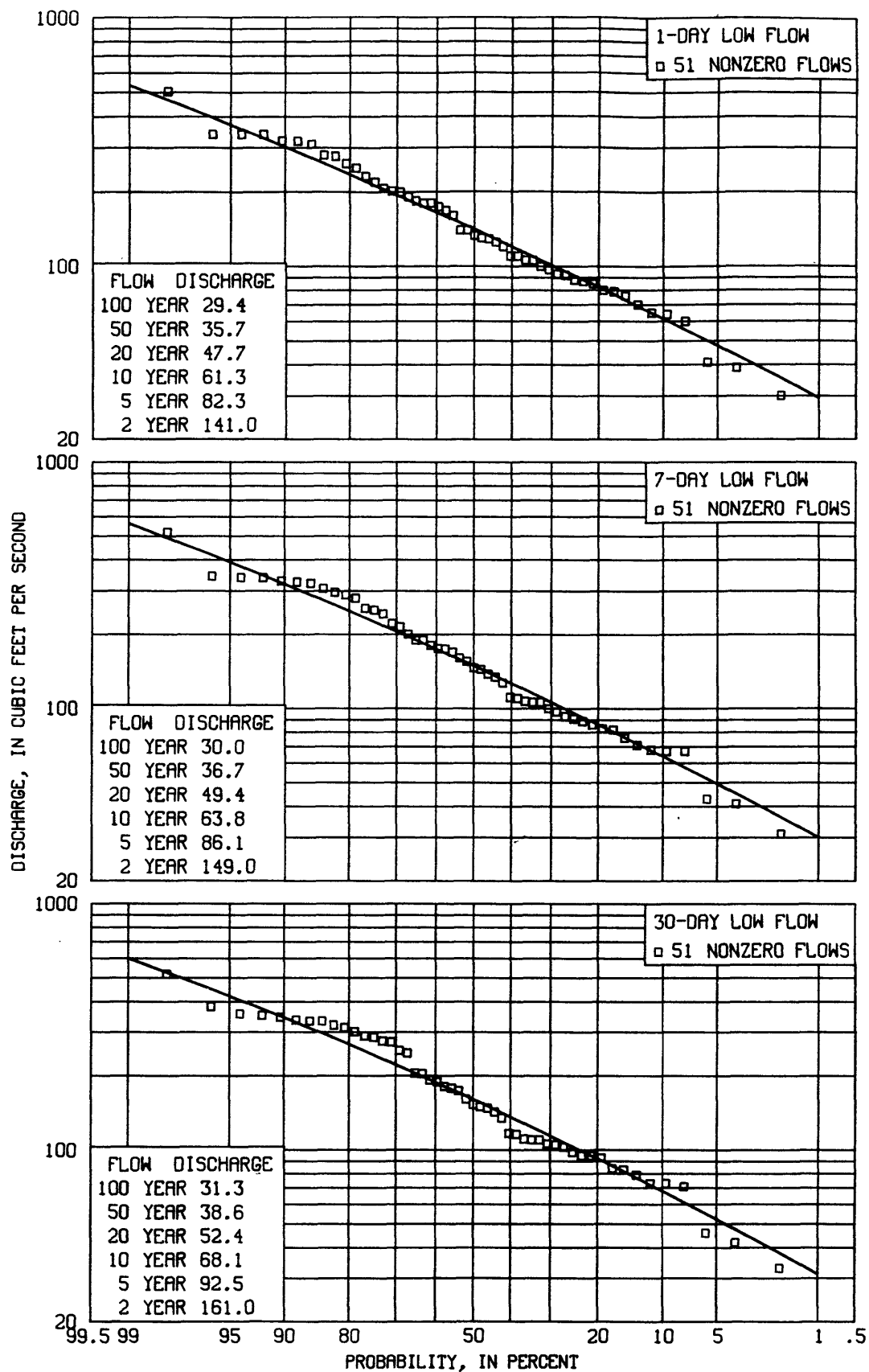
STATION 5278500 SOUTH FORK CROW RIVER AT COSMOS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



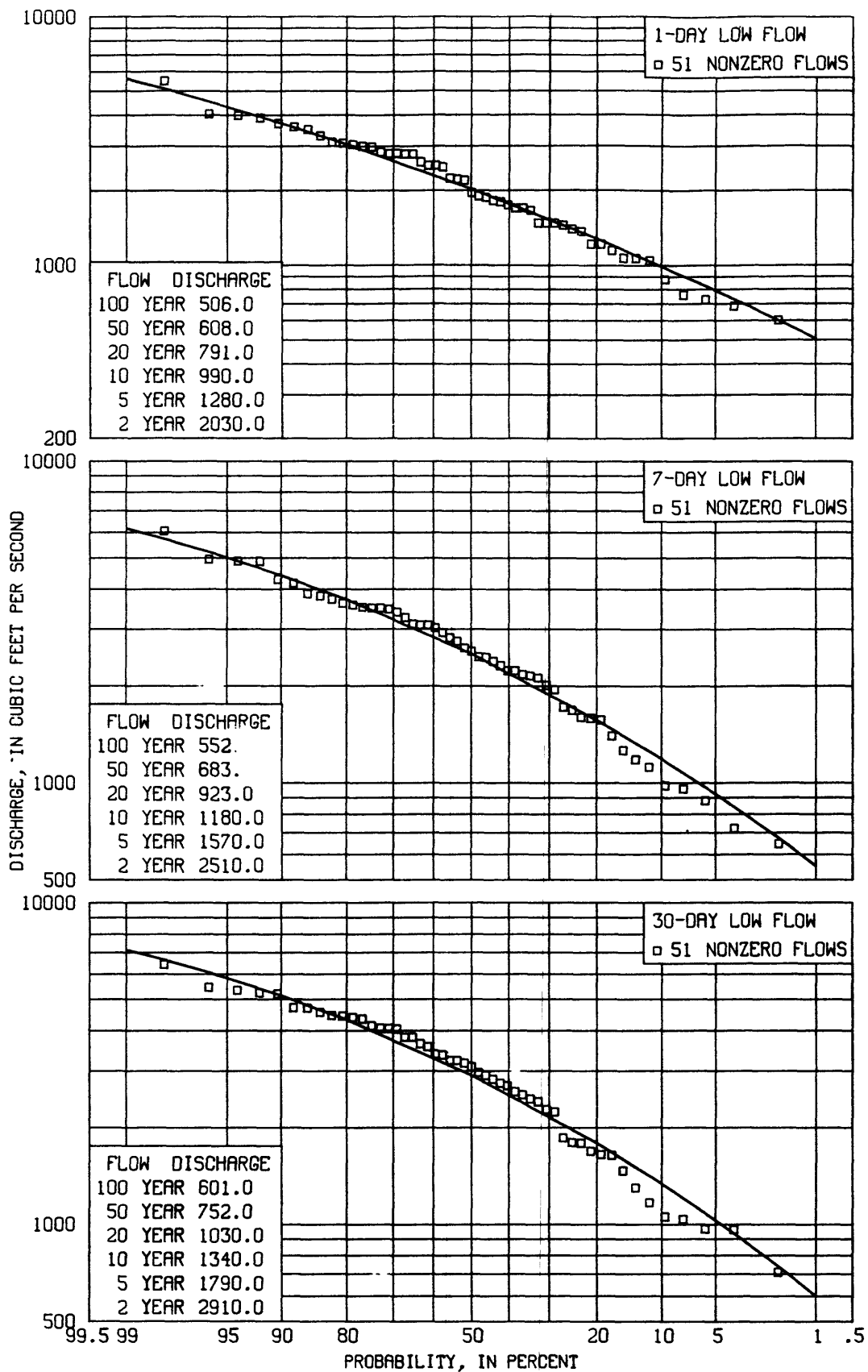
STATION 5279000 SOUTH FORK CROW RIVER NEAR MAYER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



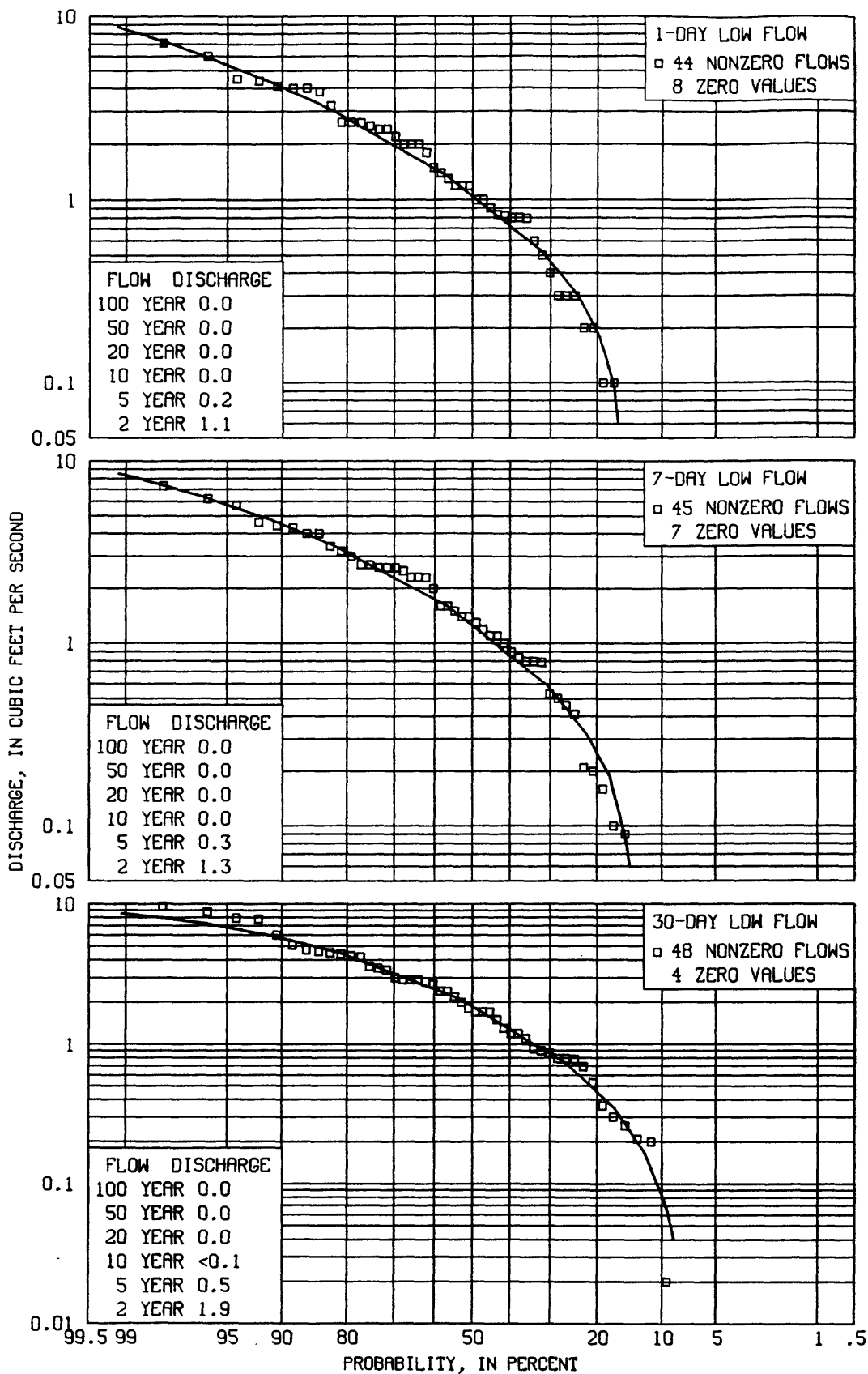
STATION 5280000 CROW RIVER AT ROCKFORD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



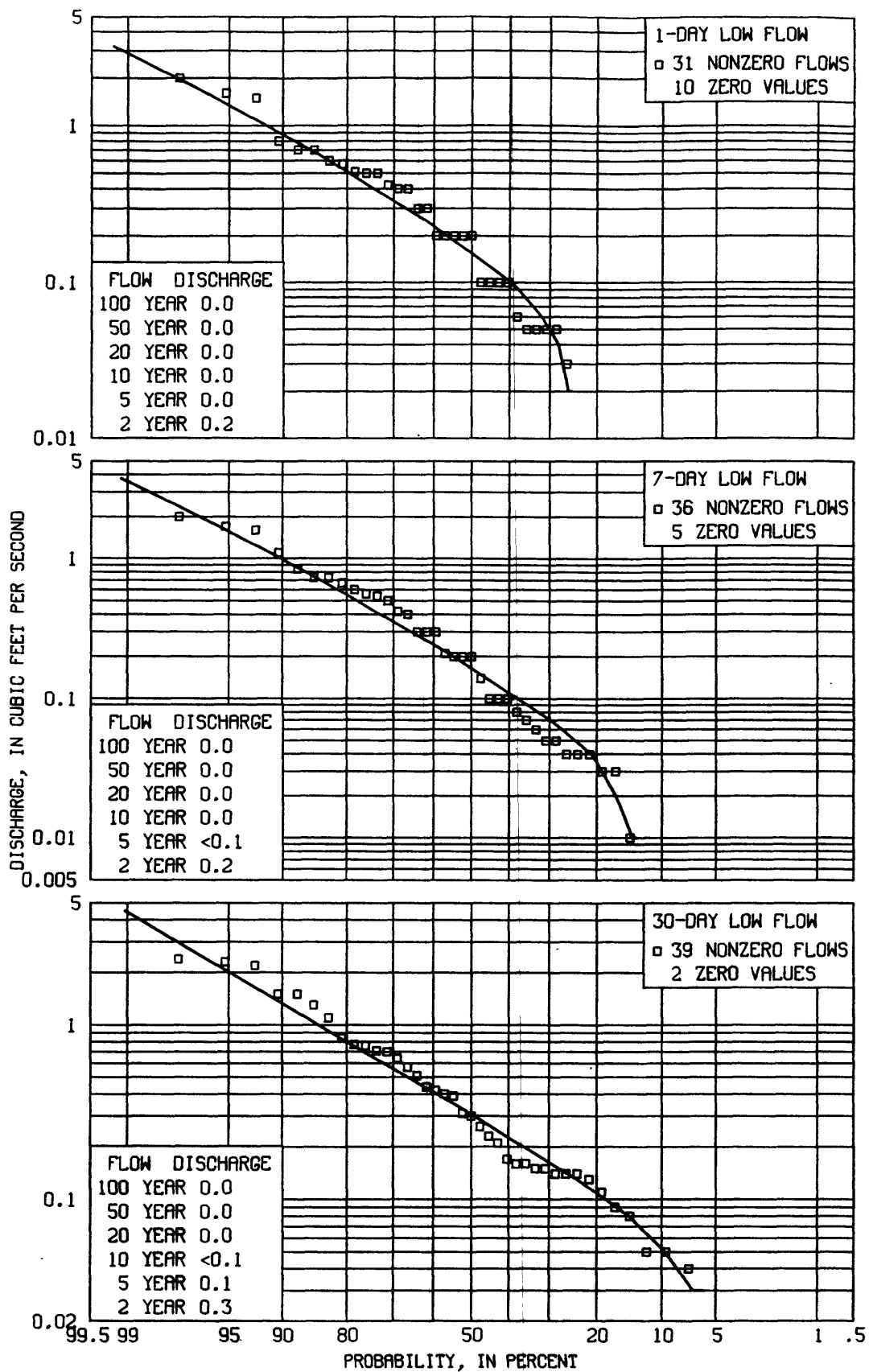
STATION 5286000 RUM RIVER NEAR ST. FRANCIS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



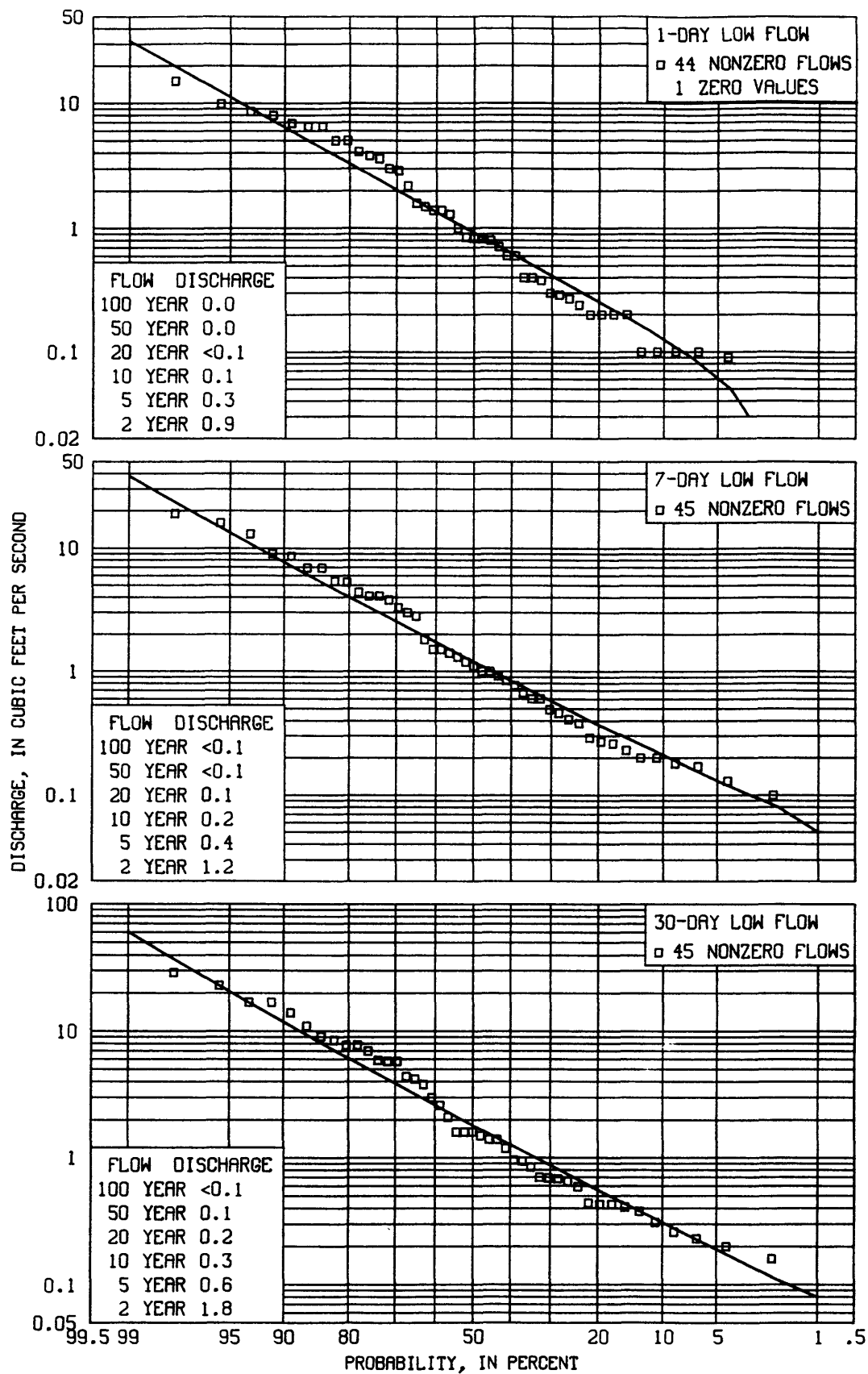
STATION 5288500 MISSISSIPPI RIVER NEAR ANOKA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



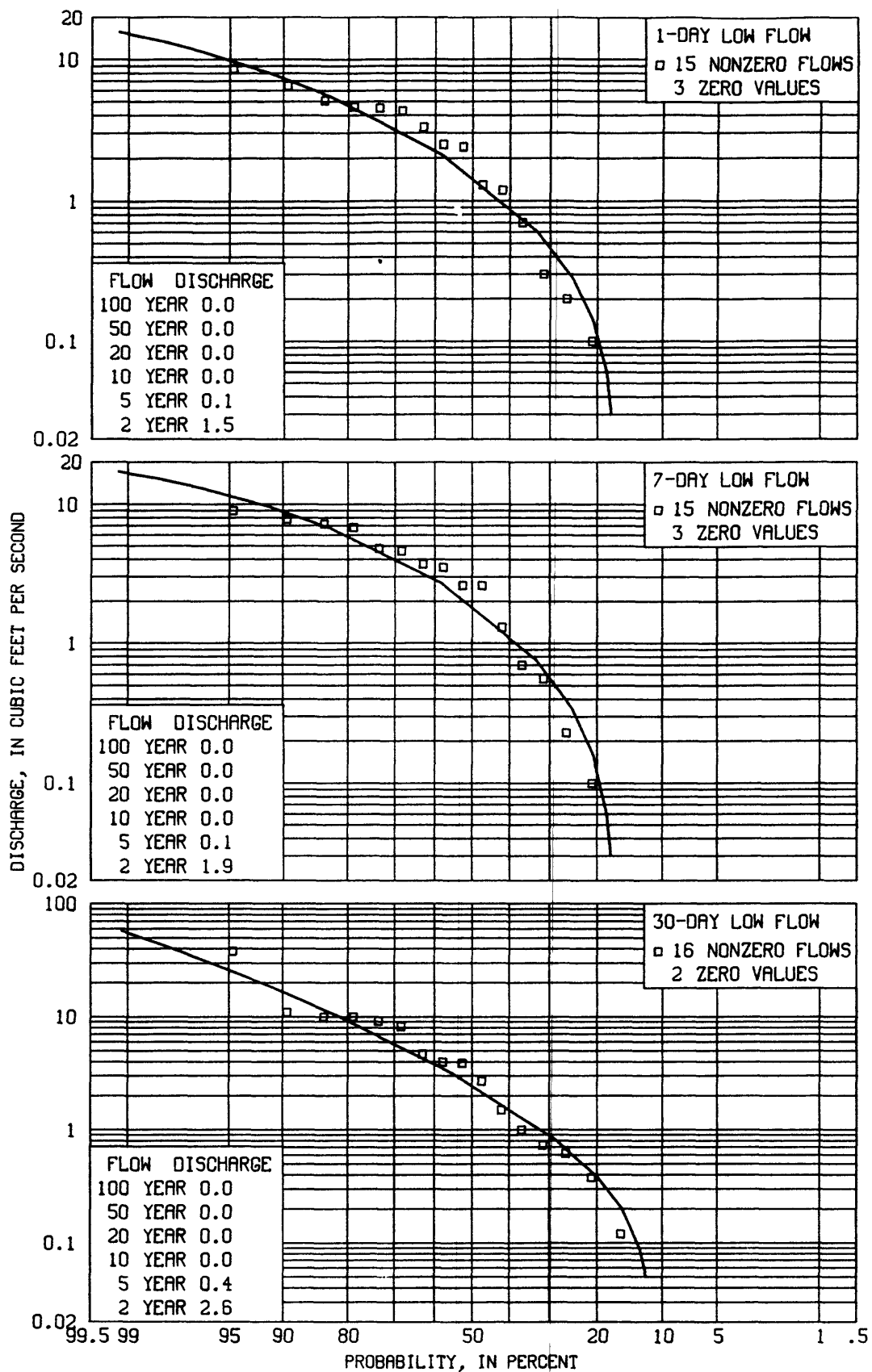
STATION 5291000 WHETSTONE RIVER NEAR BIG STONE CITY, SD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



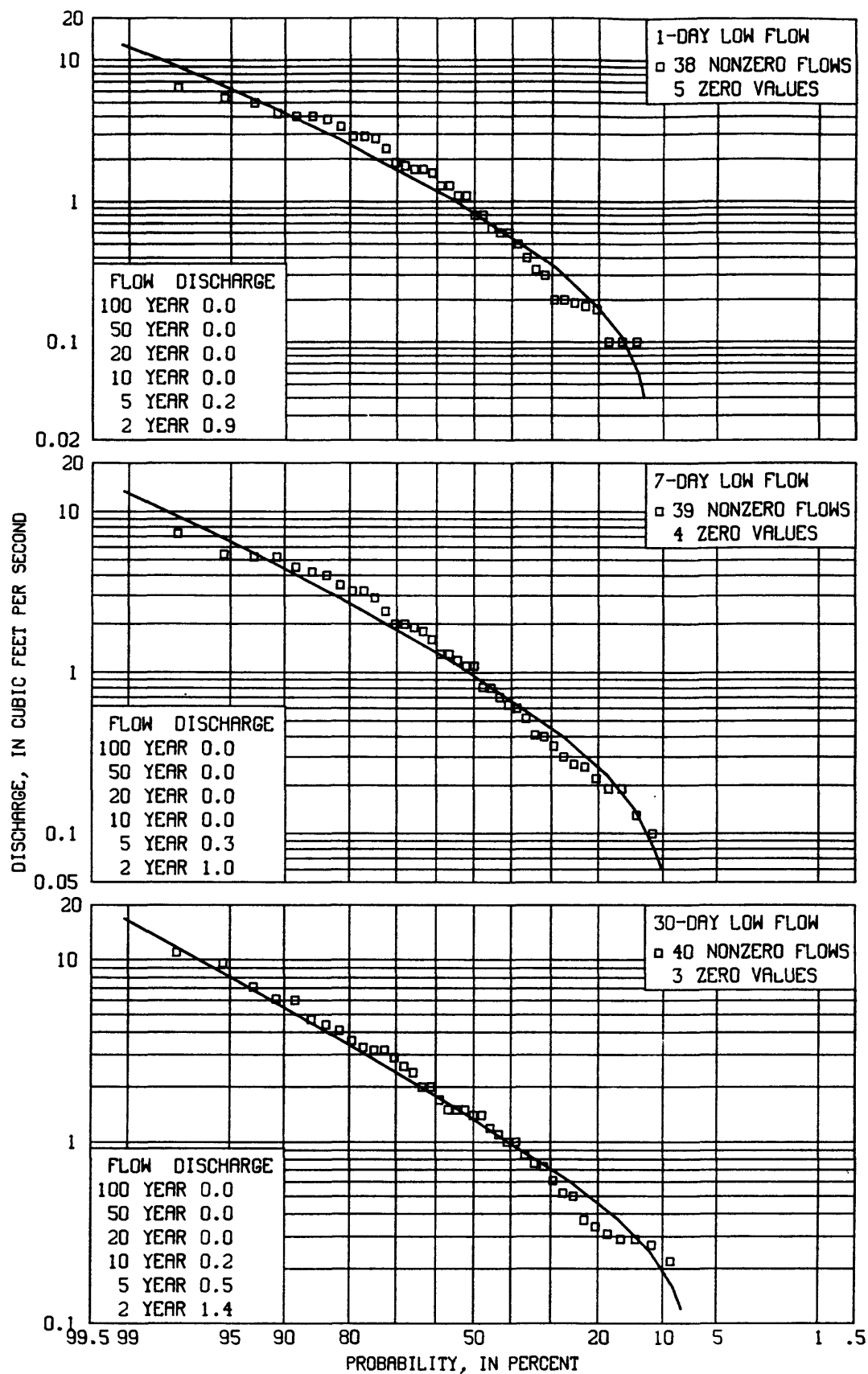
STATION 5290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



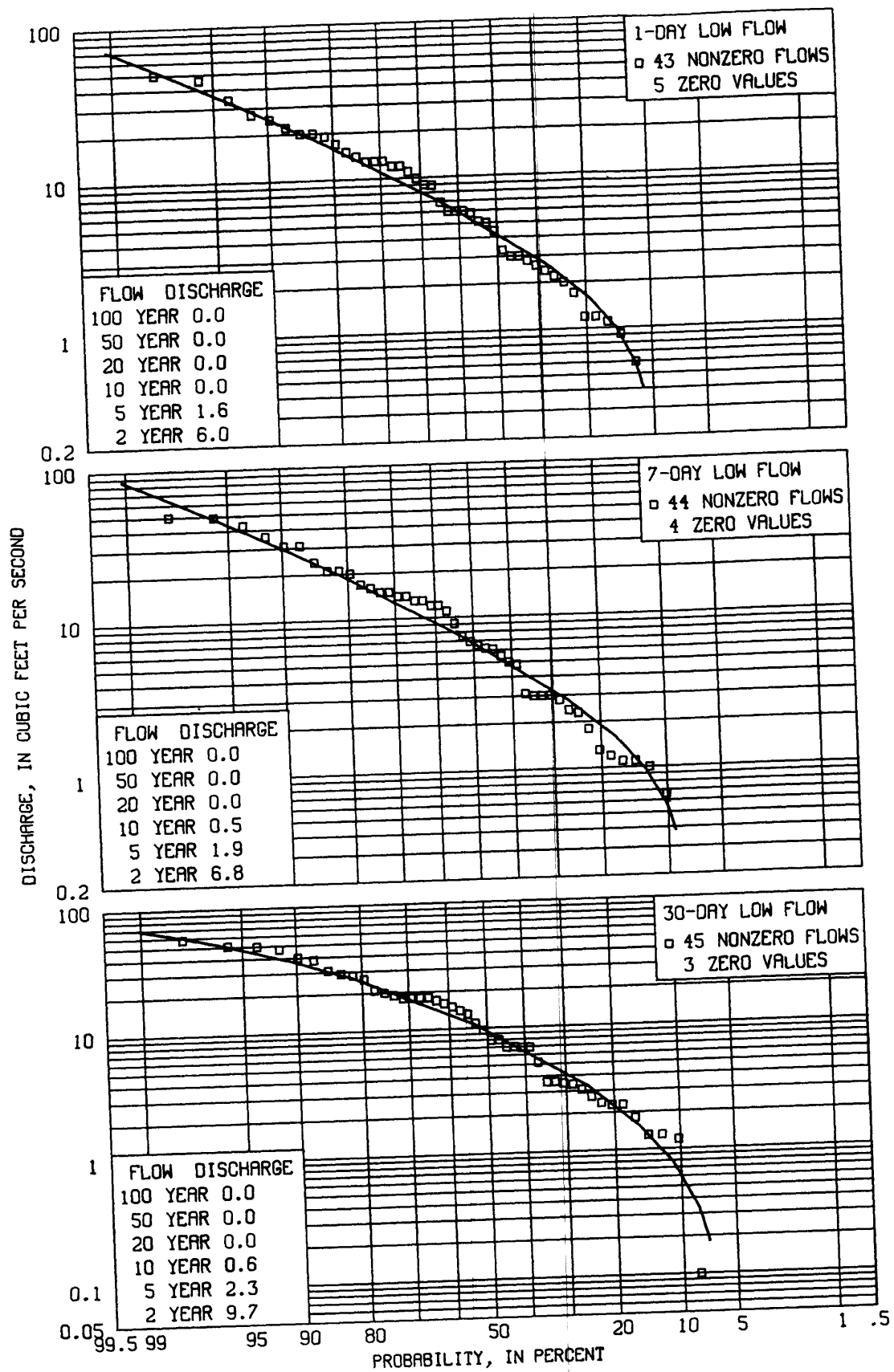
STATION 5292000 MINNESOTA RIVER AT ORTONVILLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



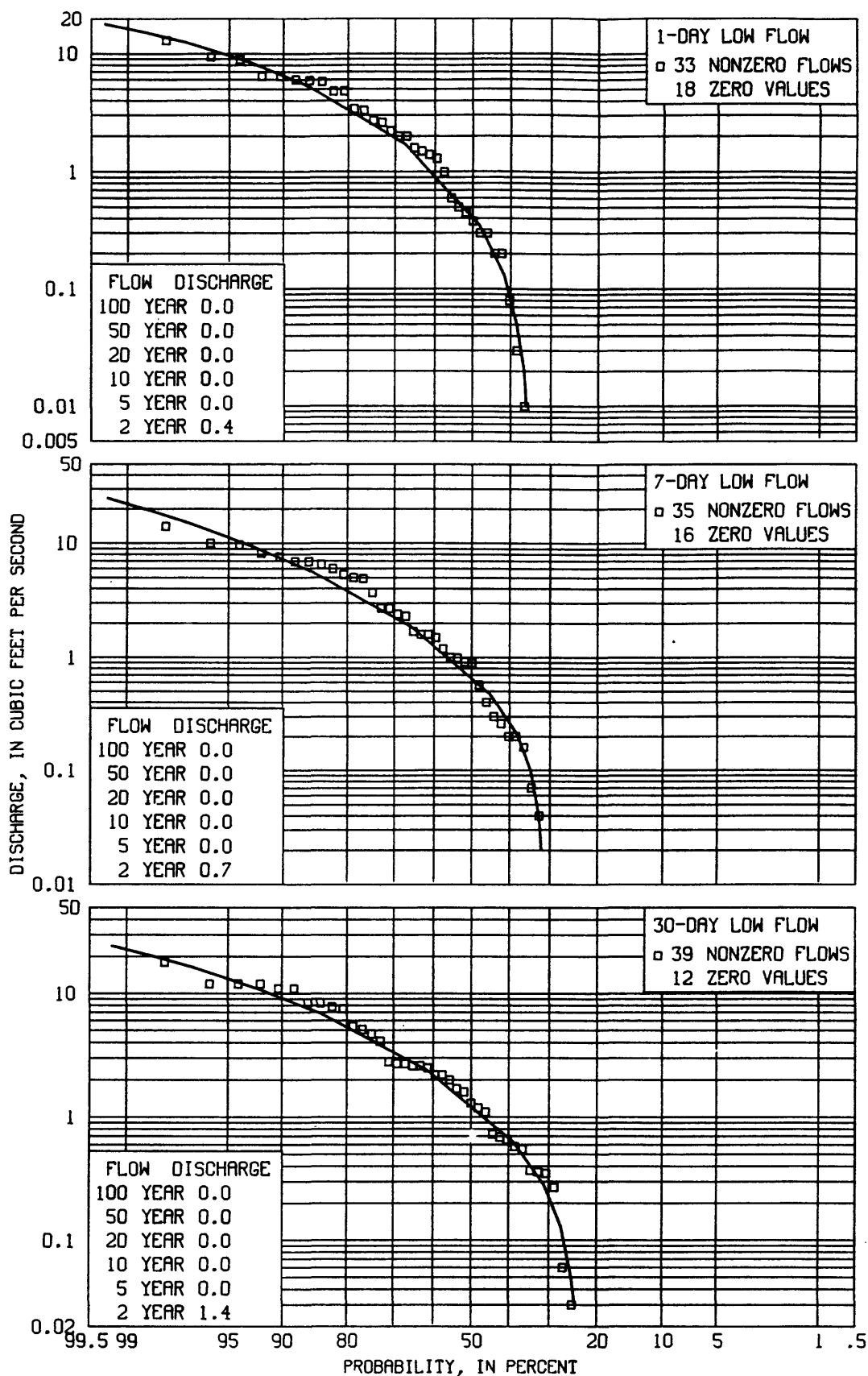
STATION 5292500 MINNESOTA RIVER NEAR ODESSA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



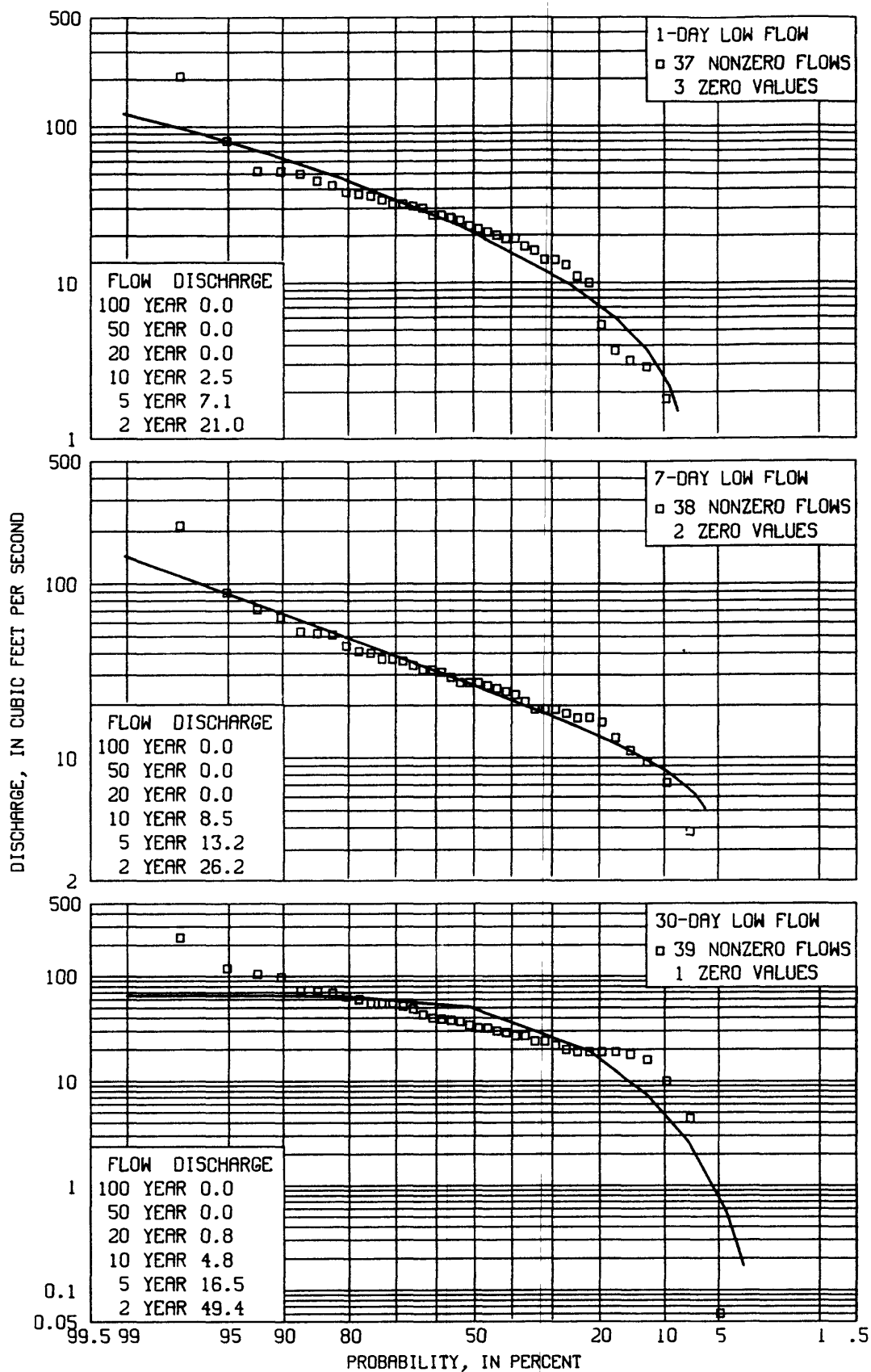
STATION 5293000 YELLOW BANK RIVER NEAR ODESSA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



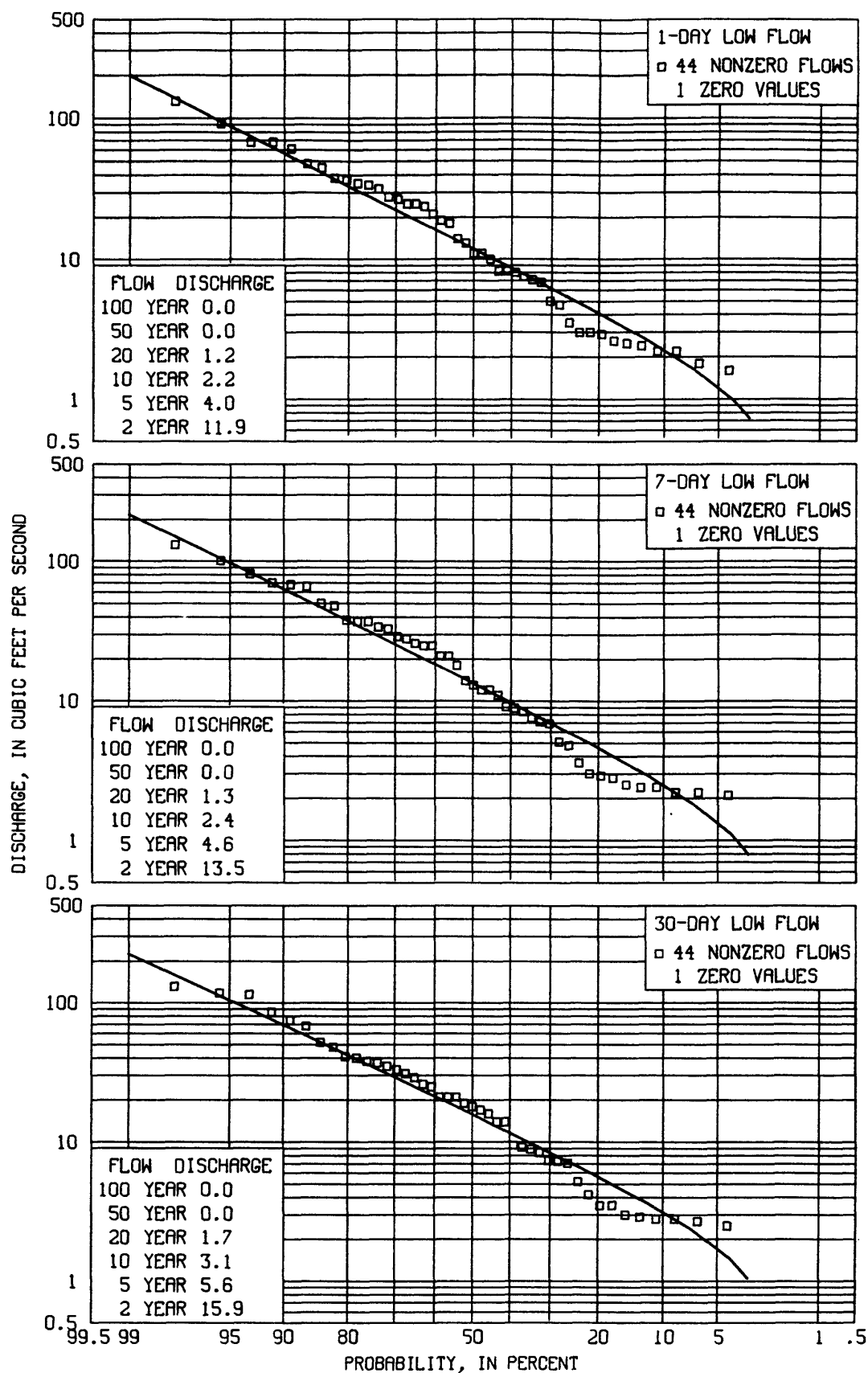
STATION 5294000 POMME DE TERRE RIVER AT APPLETON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



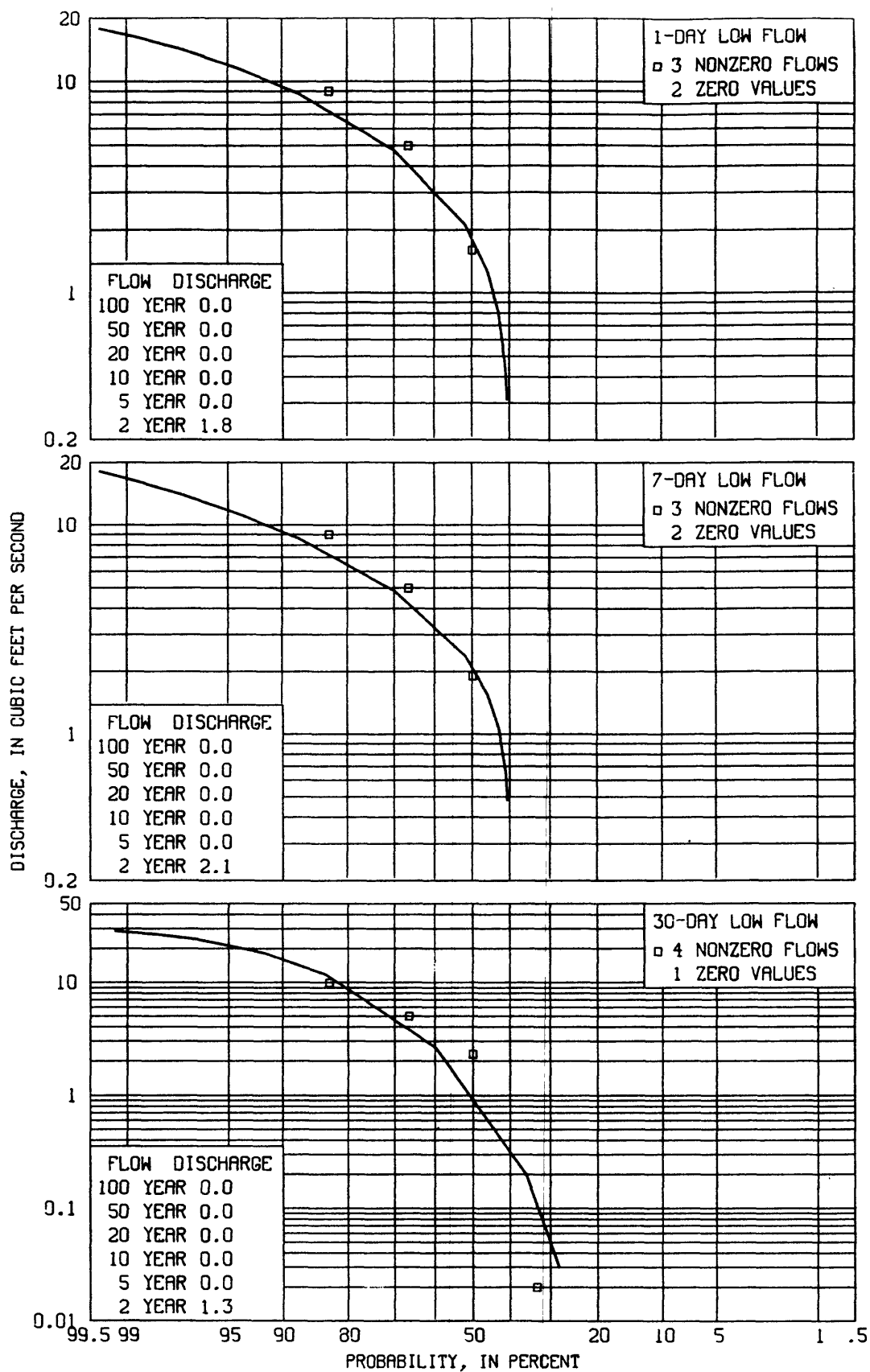
STATION 5300000 LAC QUI PARLE RIVER NEAR LAC QUI PARLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



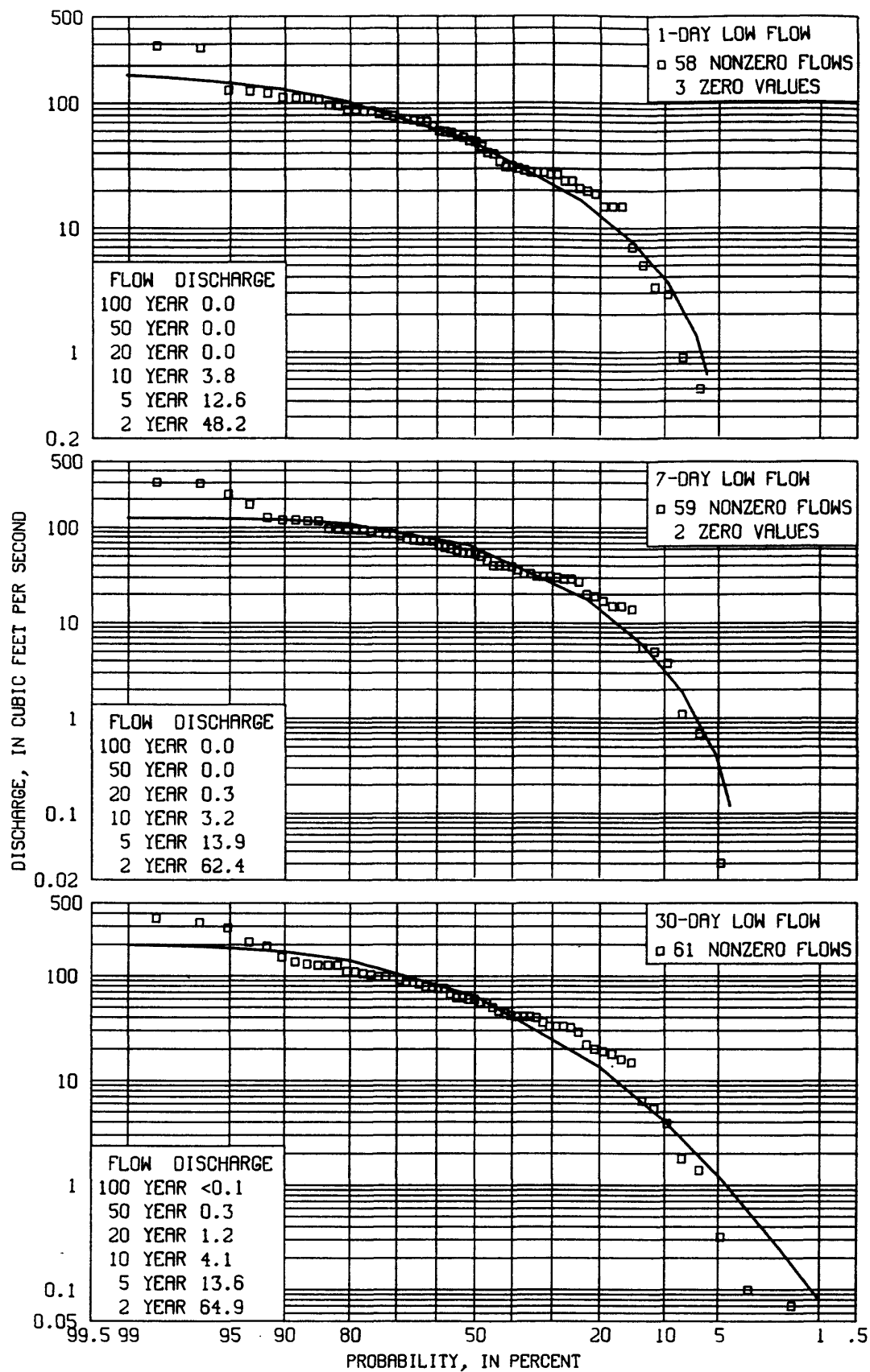
STATION 5301000 MINNESOTA RIVER NEAR LAC QUI PARLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



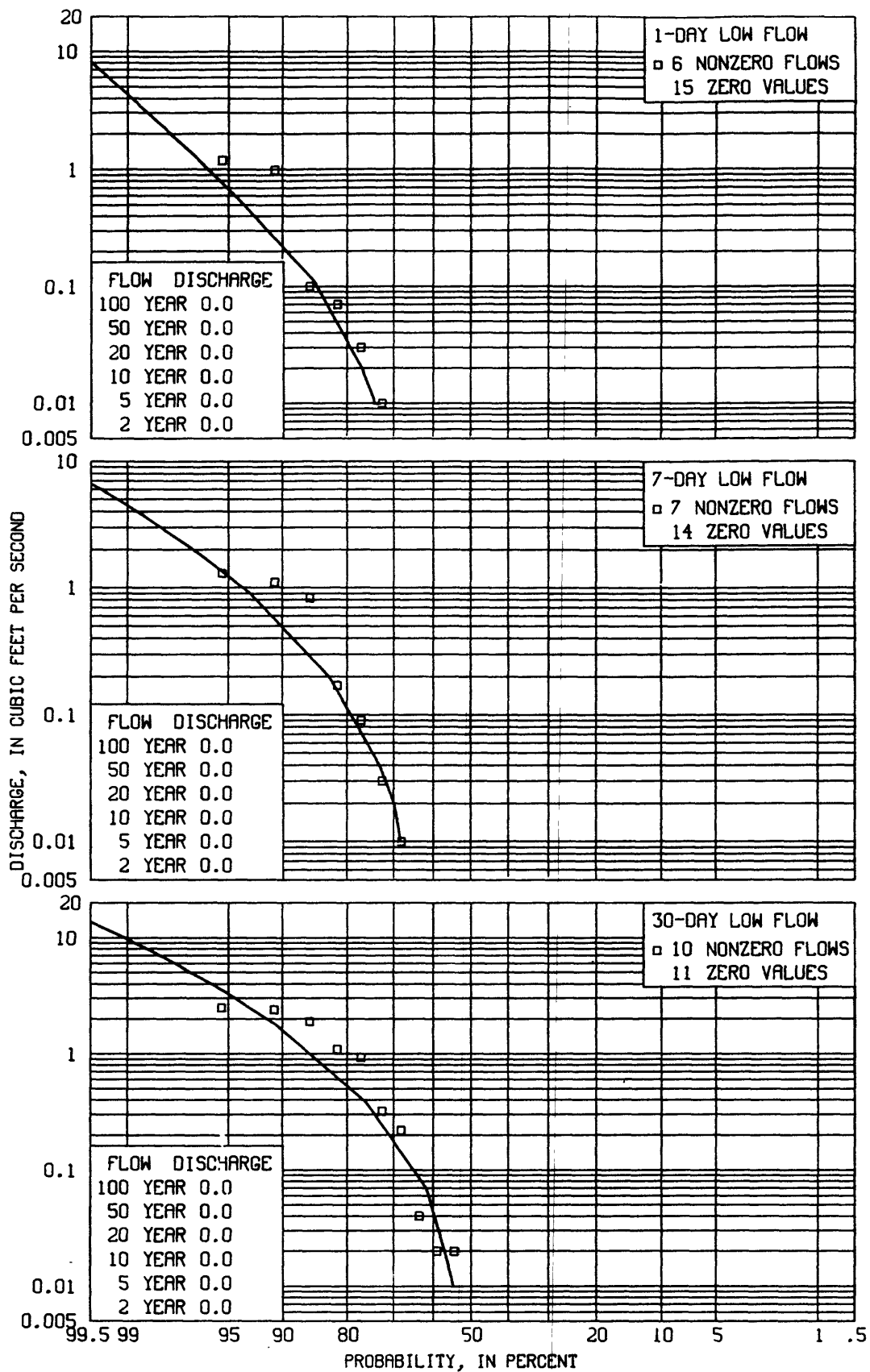
STATION 5304500 CHIPPEWA RIVER NEAR MILAN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



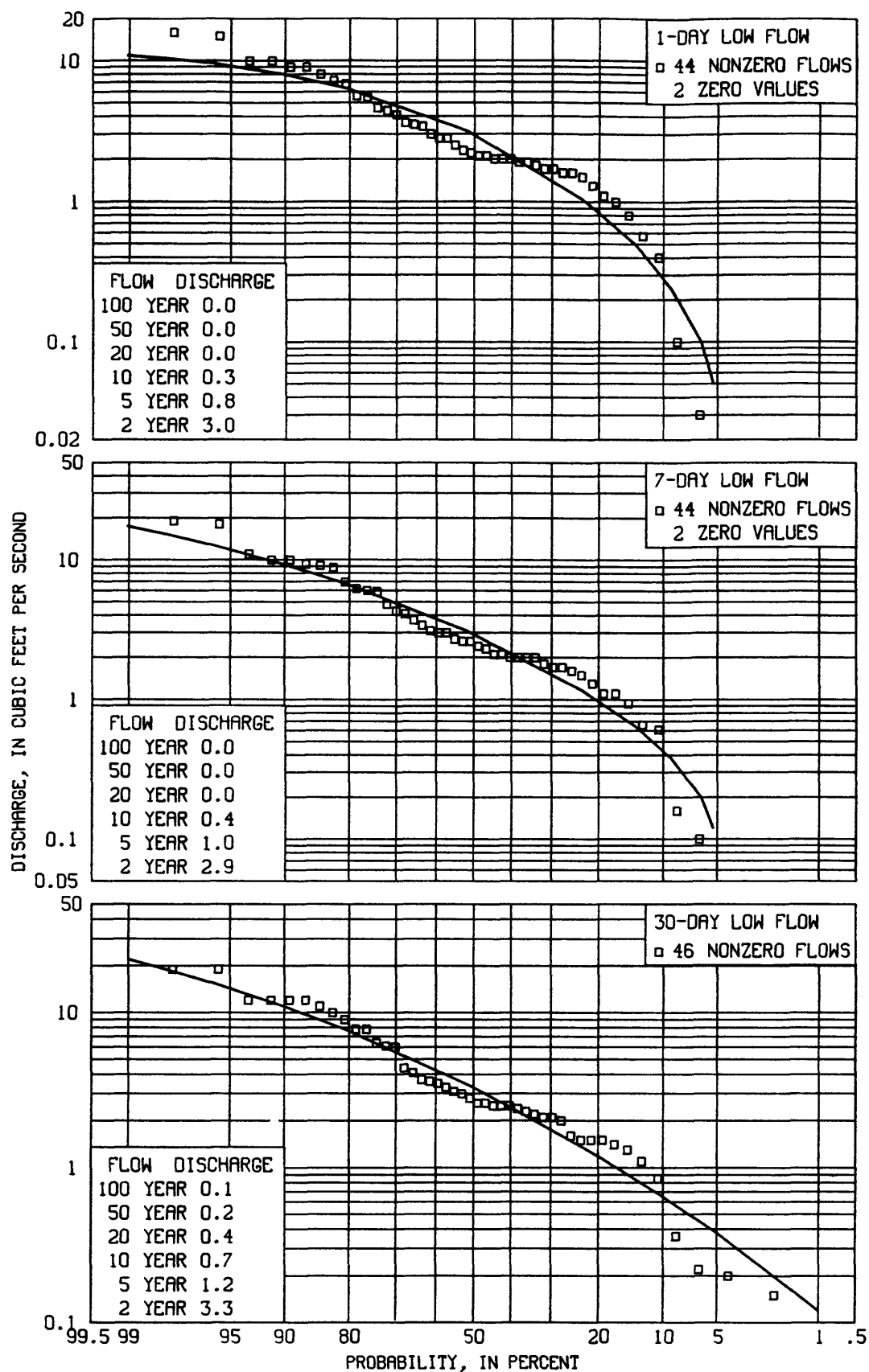
STATION 5305000 CHIPPEWA RIVER NEAR WATSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



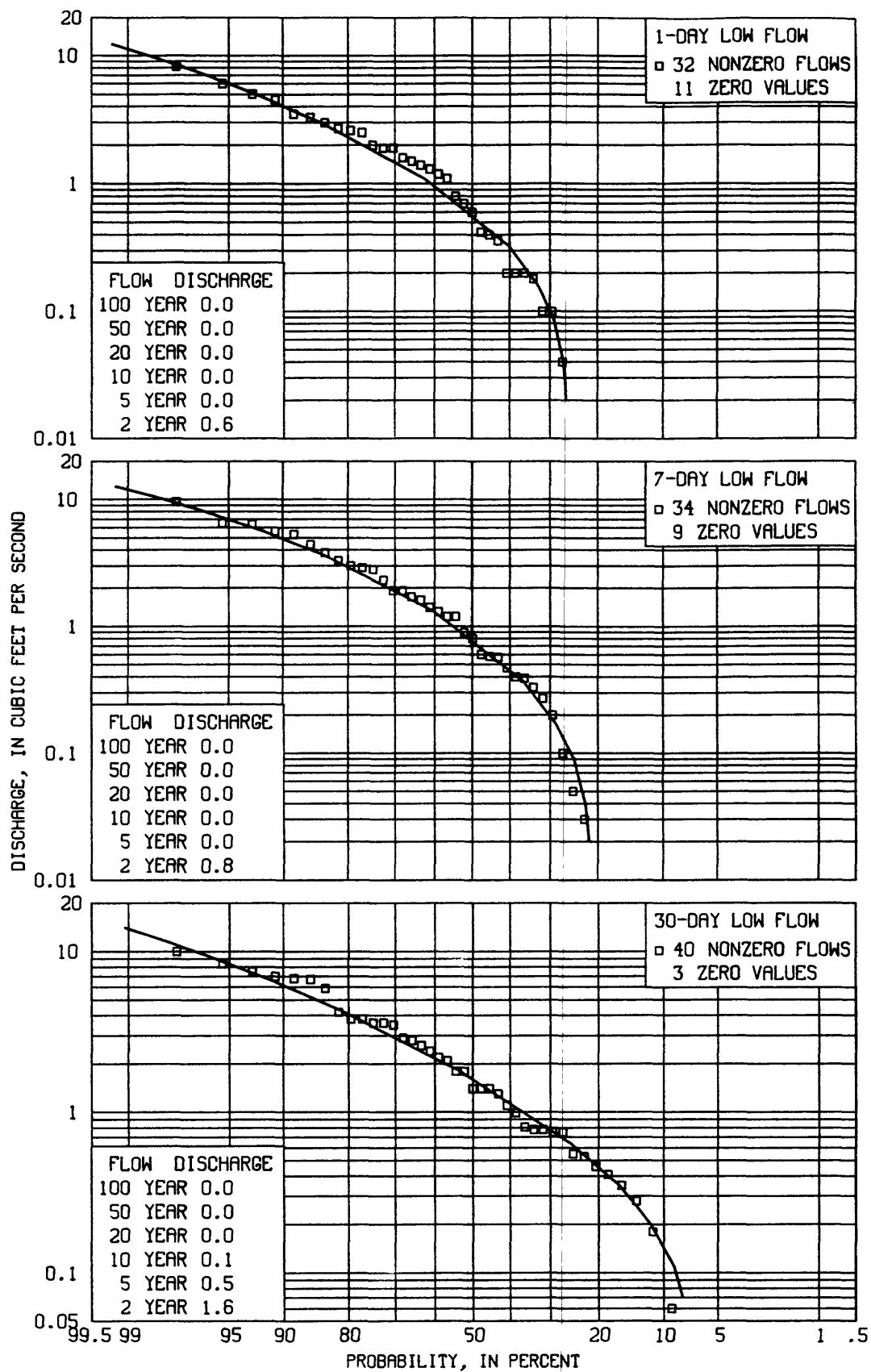
STATION 5311000 MINNESOTA RIVER AT MONTEVIDEO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



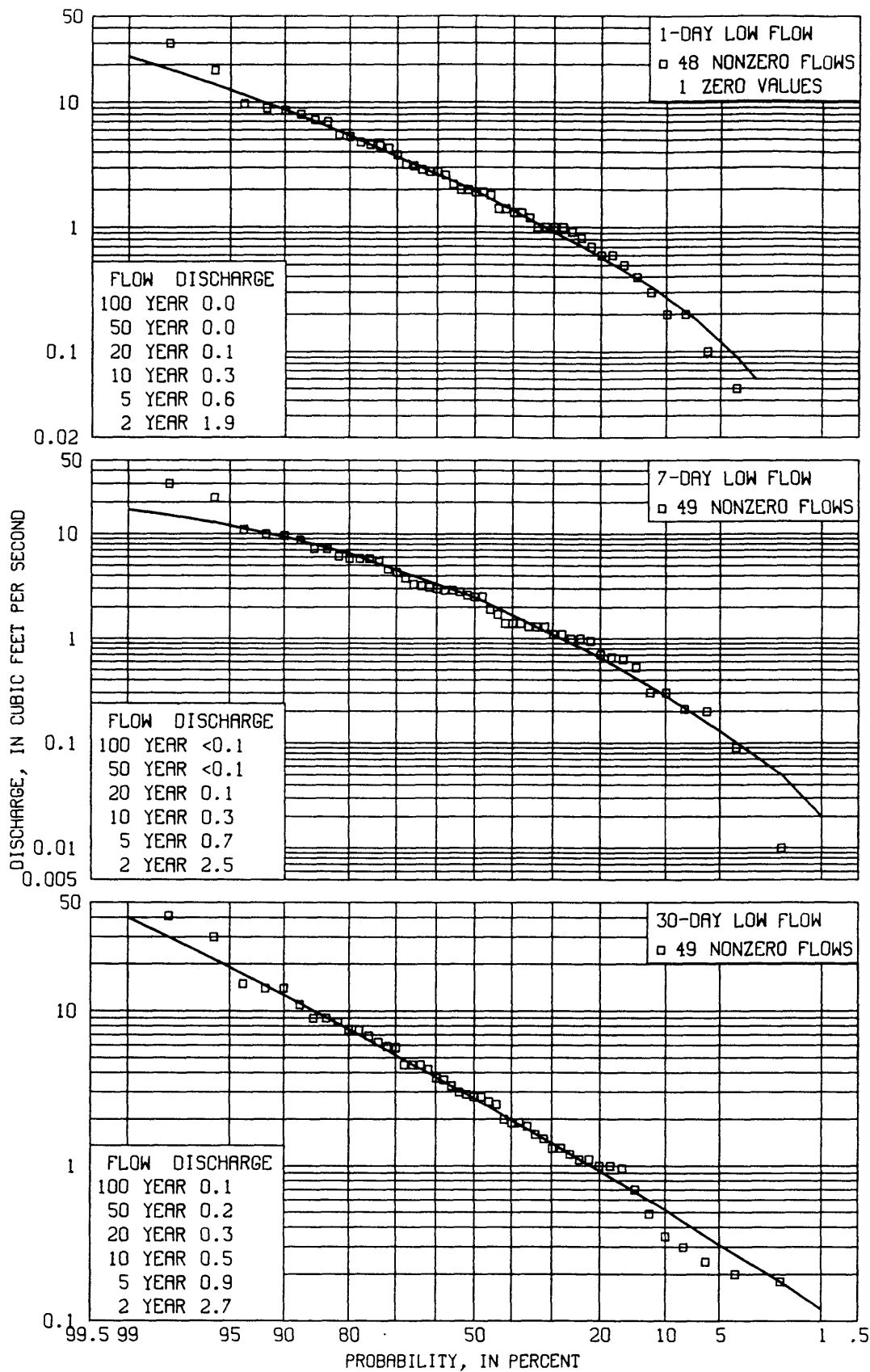
STATION 5311400 SOUTH BRANCH YELLOW MEDICINE RIVER AT MINNEOTA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



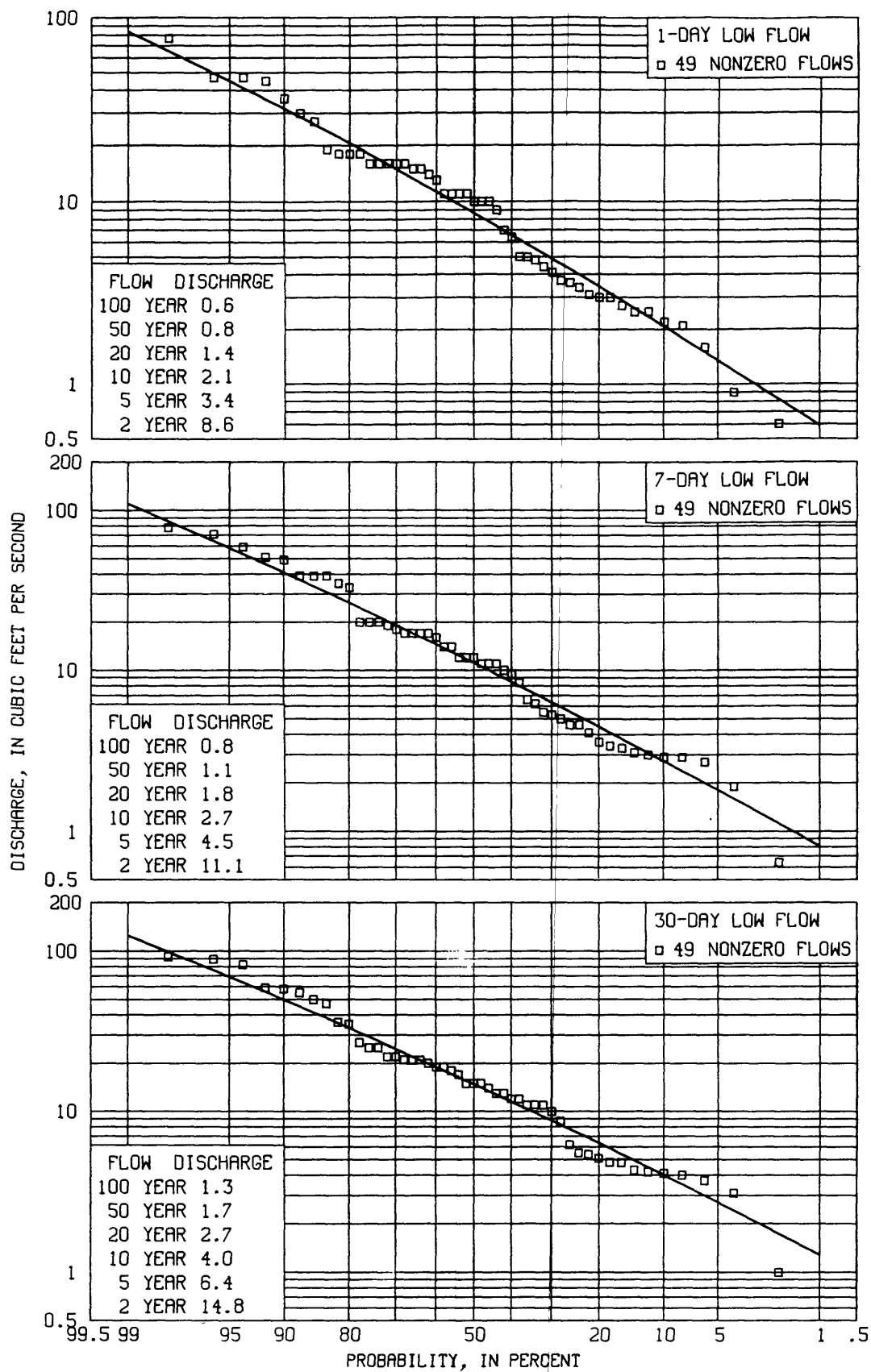
STATION 5313500 YELLOW MEDICINE RIVER NEAR GRANITE FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



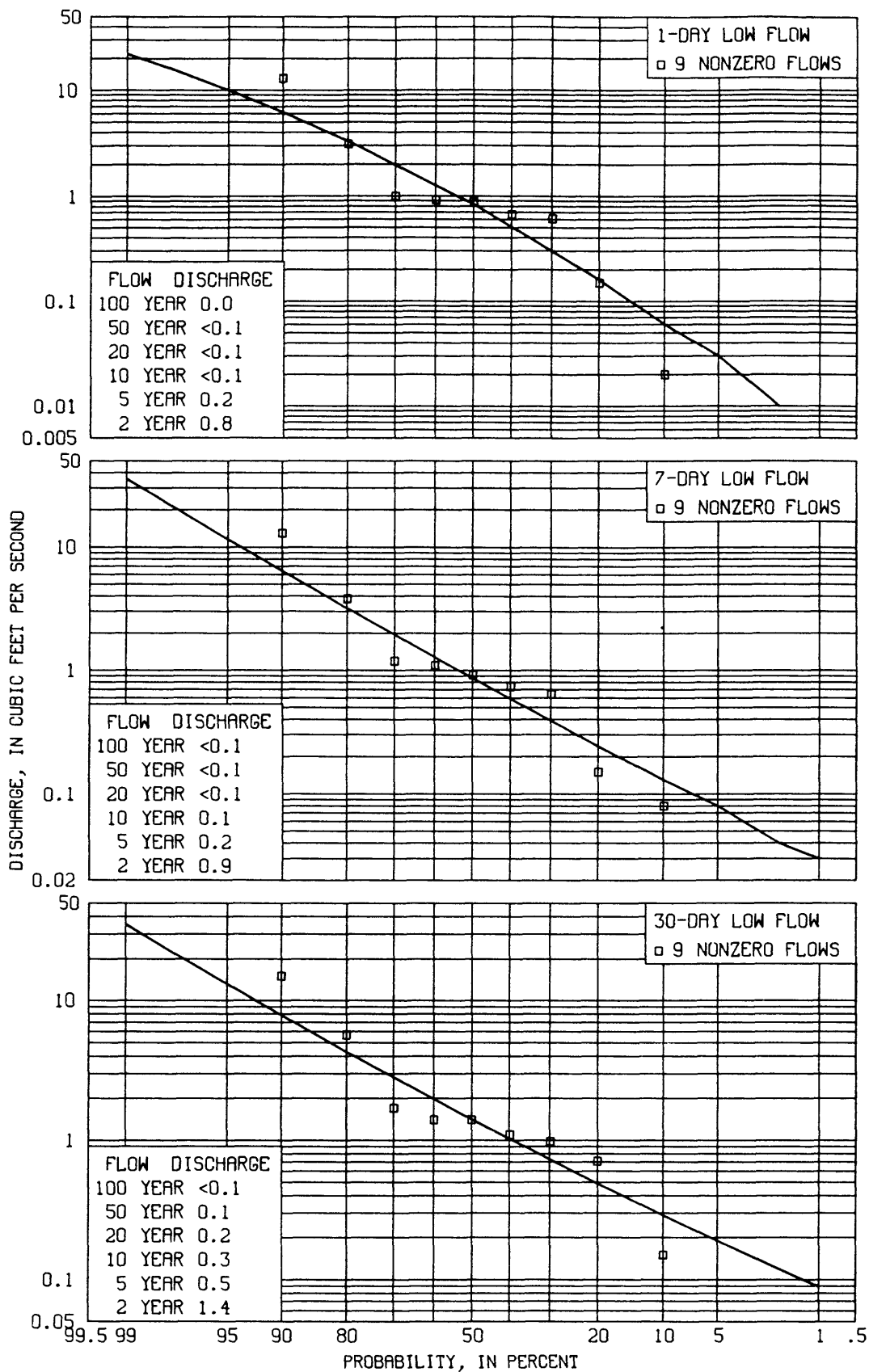
STATION 5315000 REDWOOD RIVER NEAR MARSHALL
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



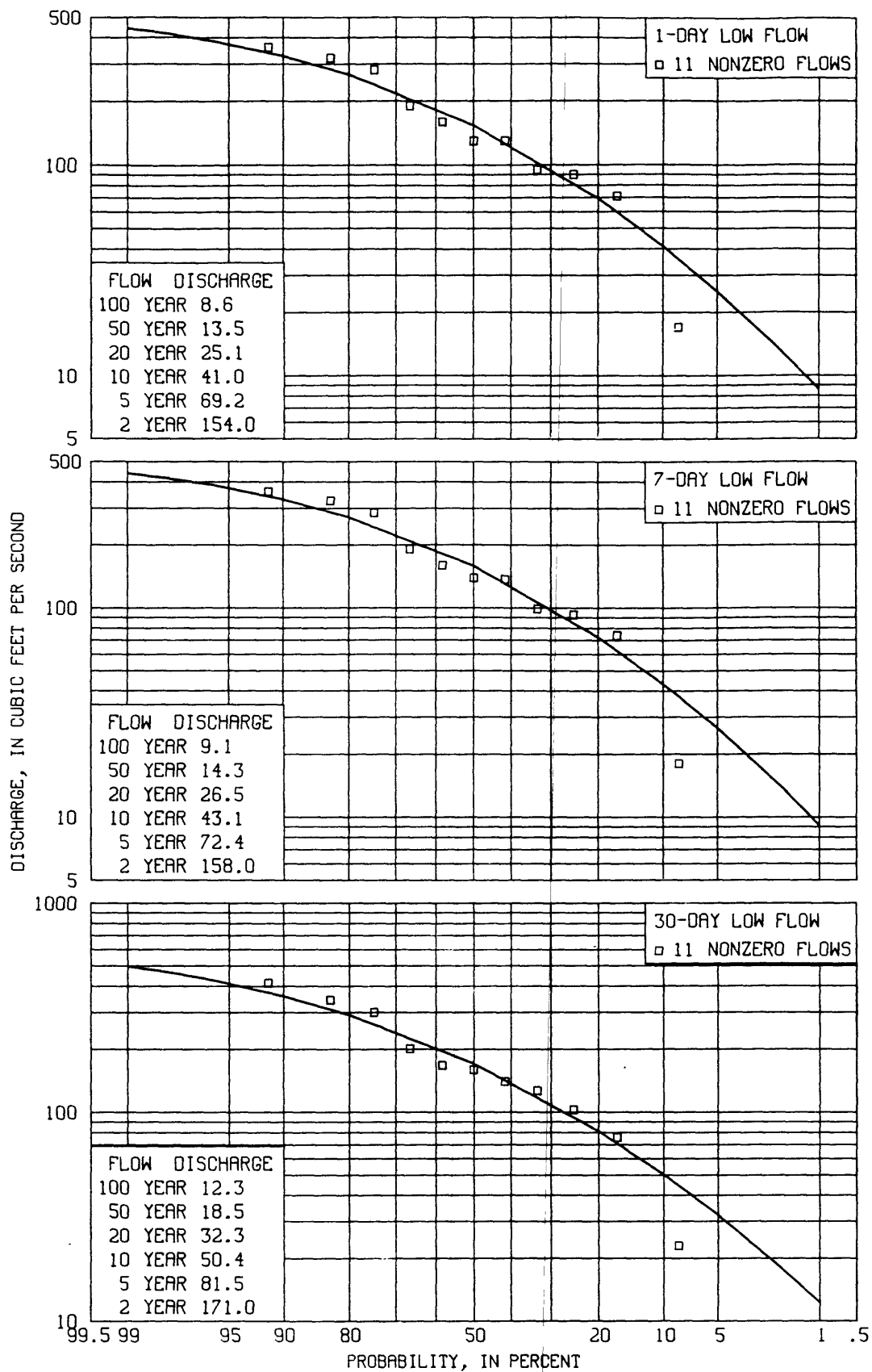
STATION 5316500 REDWOOD RIVER NEAR REDWOOD FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



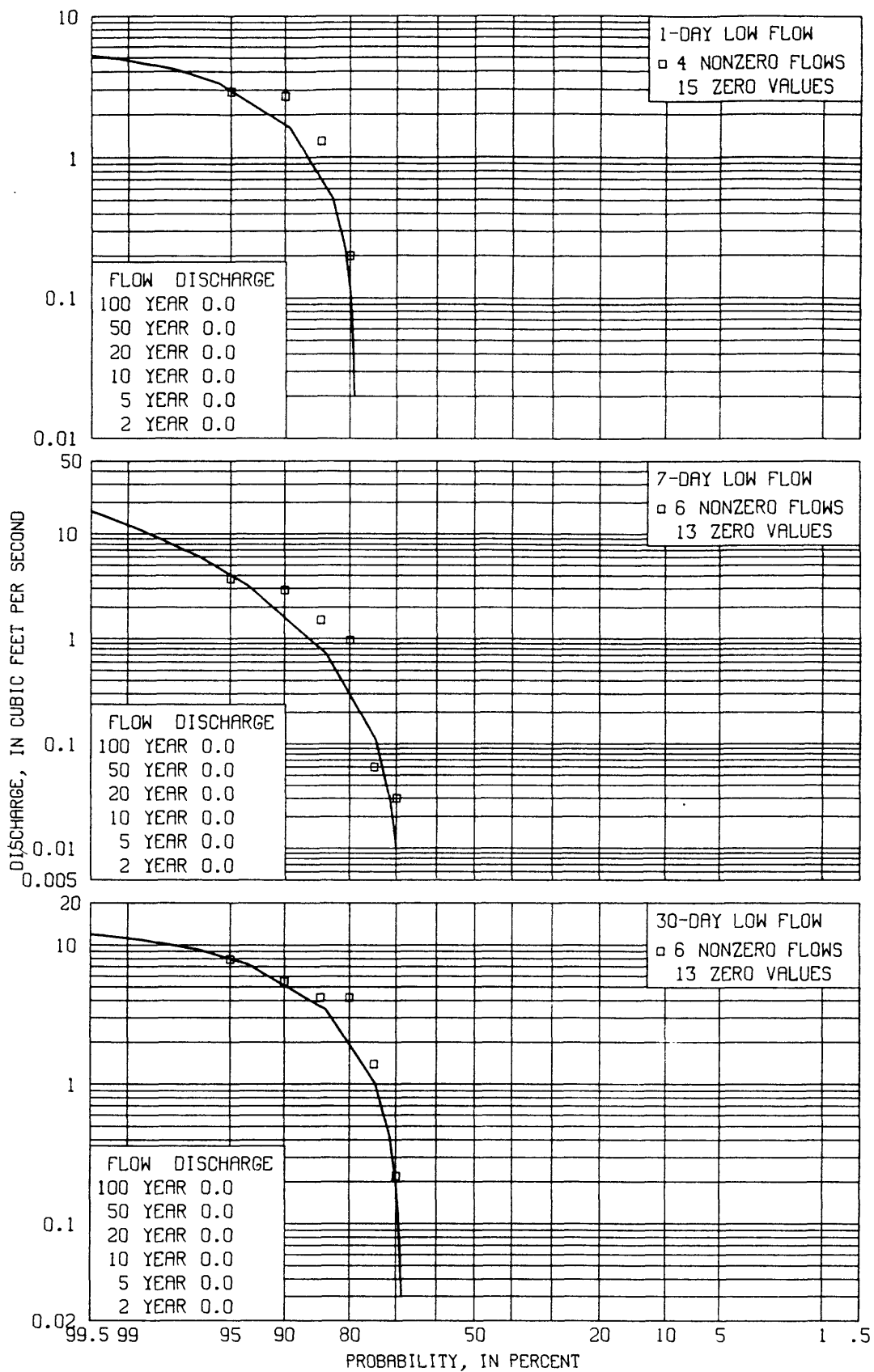
STATION 5317000 COTTONWOOD RIVER NEAR NEW ULM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



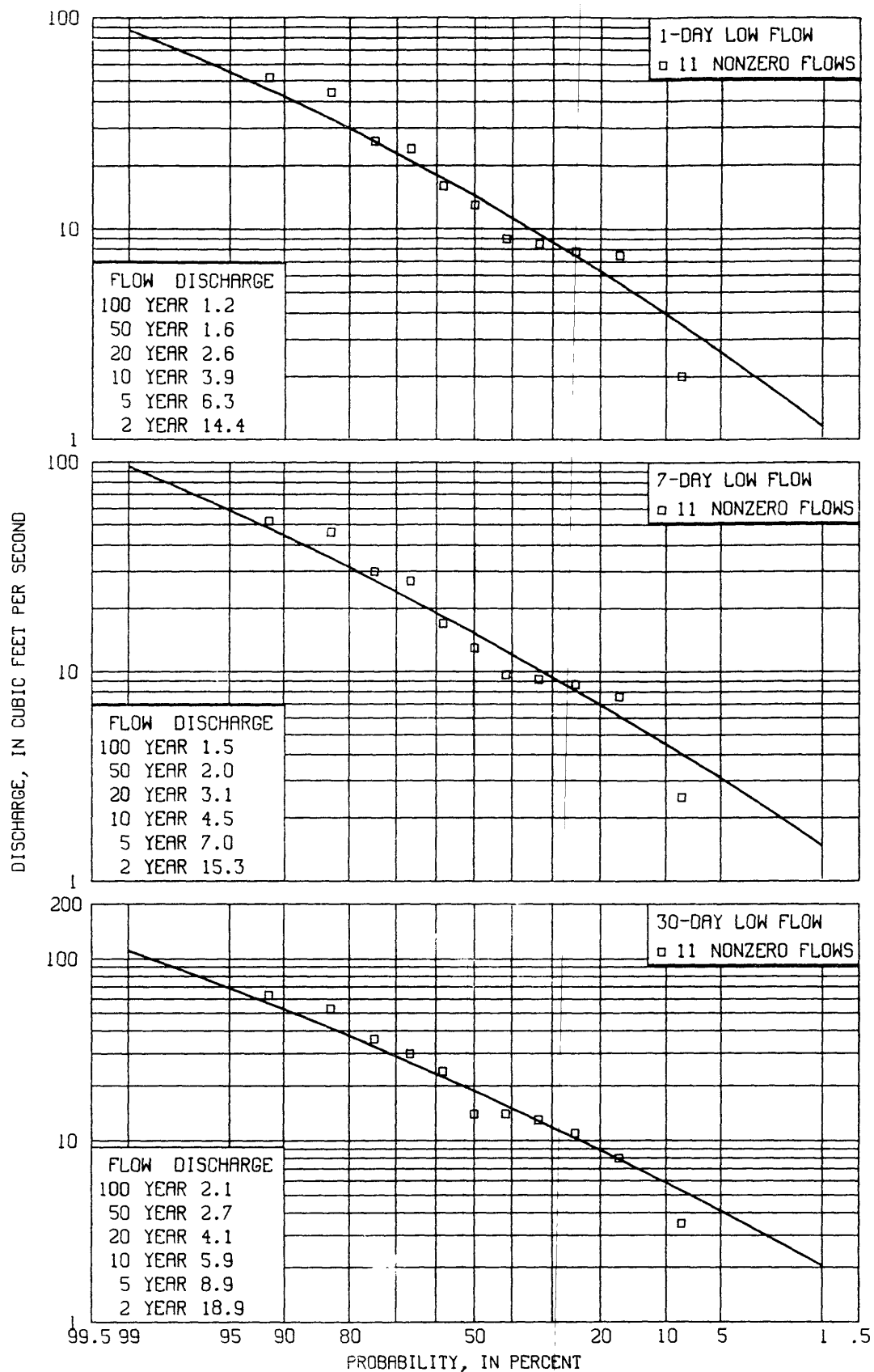
STATION 5317200 LITTLE COTTONWOOD RIVER NEAR COURTLAND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



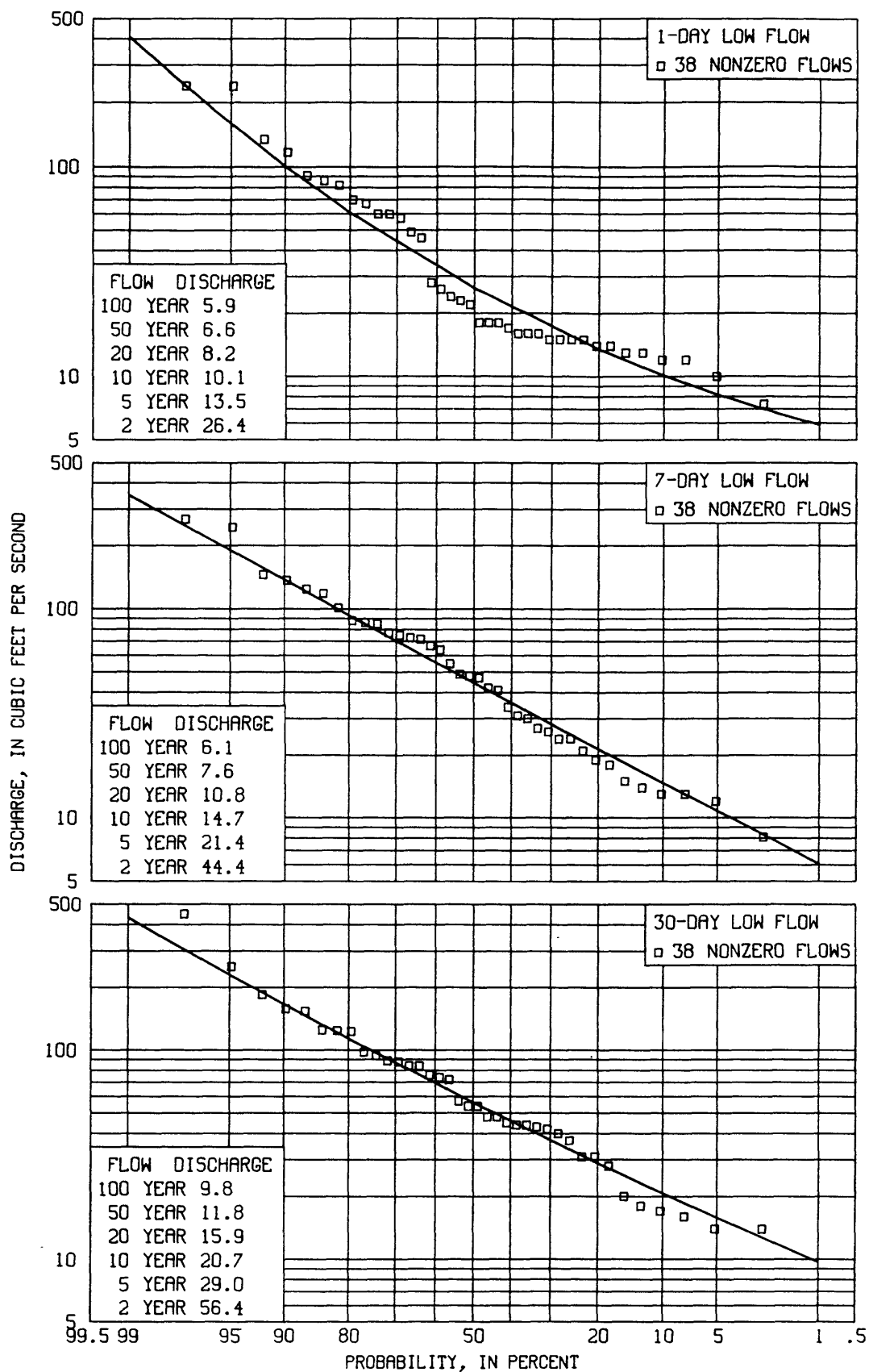
STATION 5317500 MINNESOTA RIVER AT JUDSON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



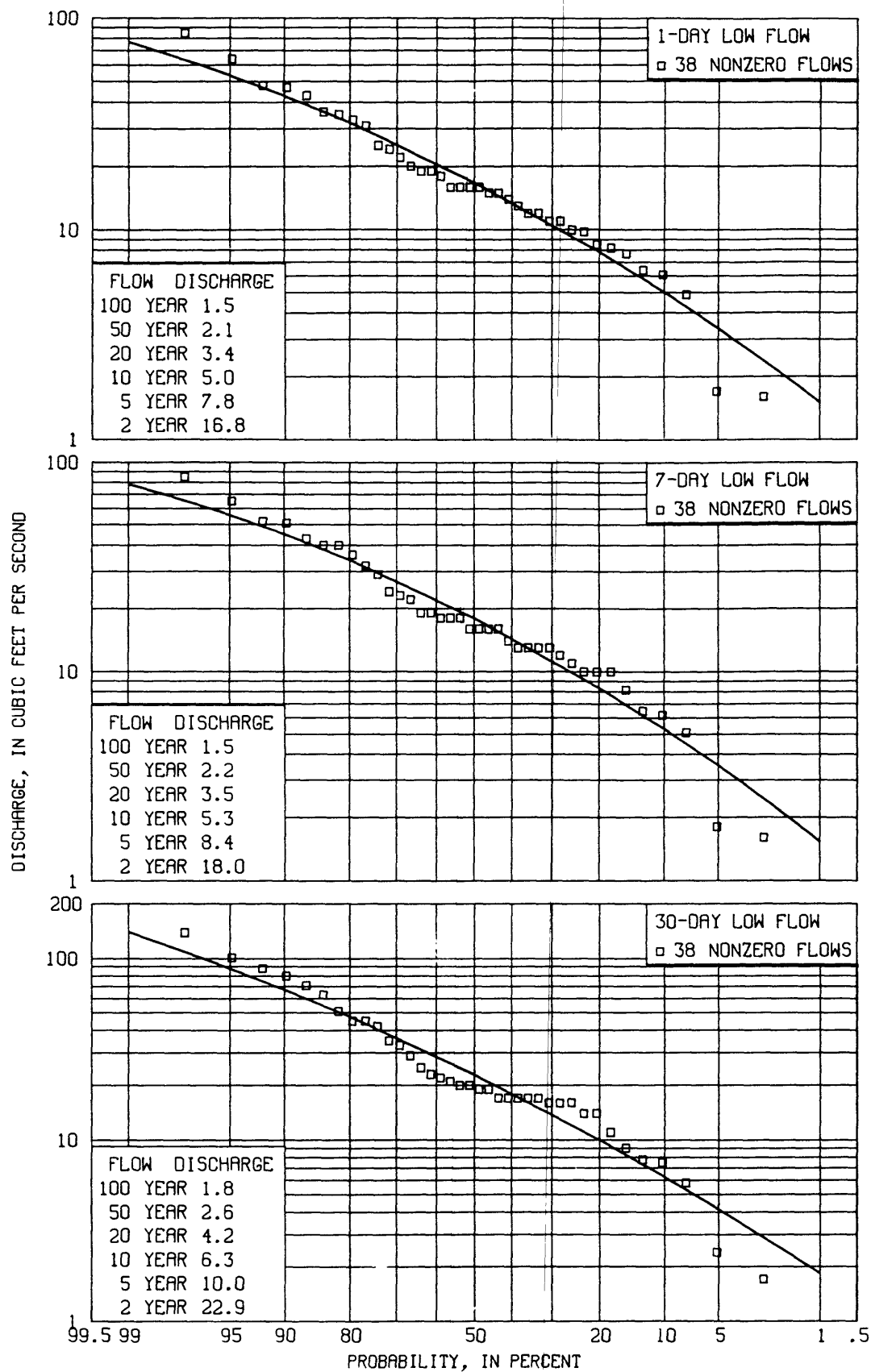
STATION 5318000 EAST BRANCH BLUE EARTH RIVER NEAR BRICELYN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



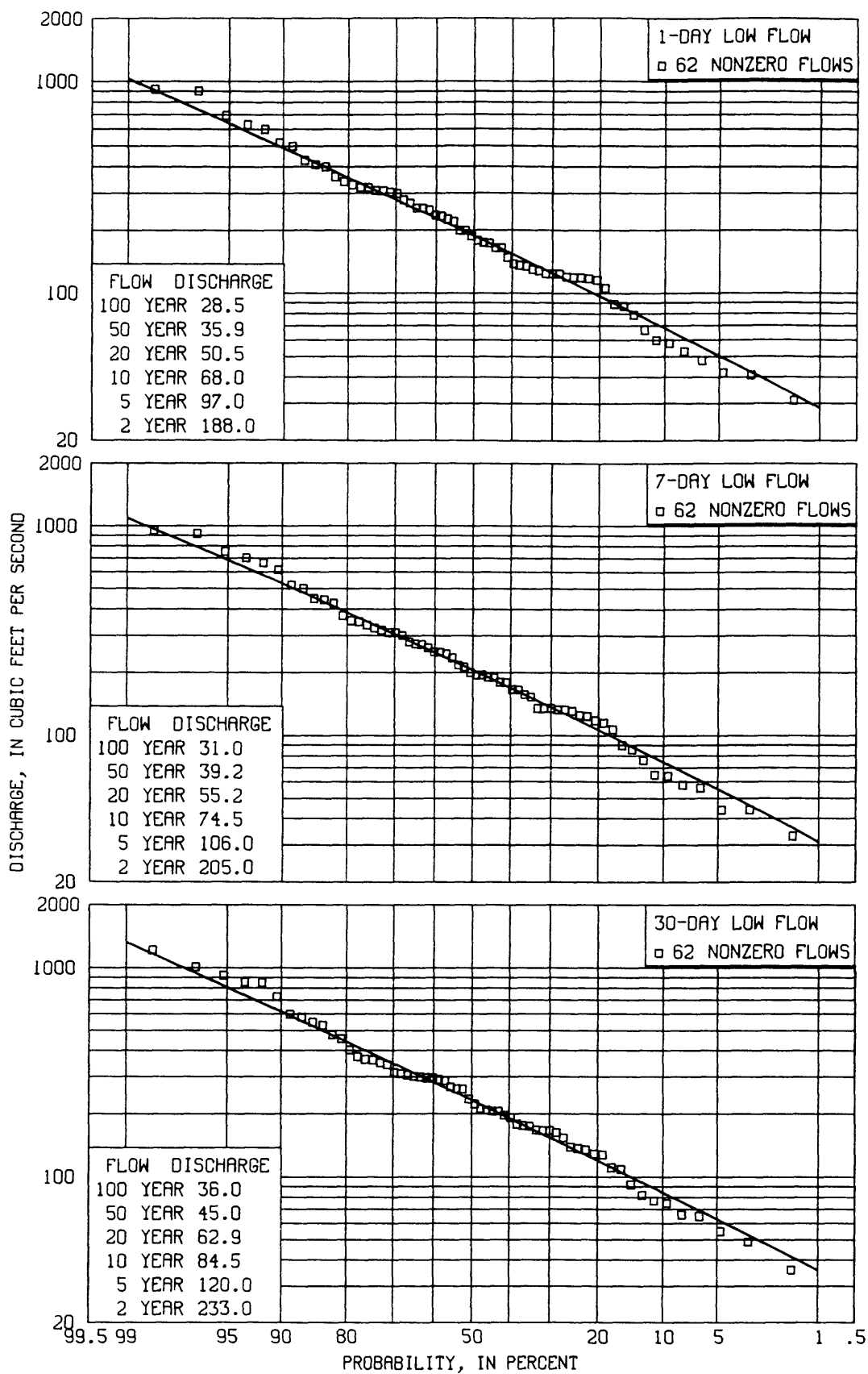
STATION 5319500 WATONWAN RIVER NEAR GARDEN CITY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



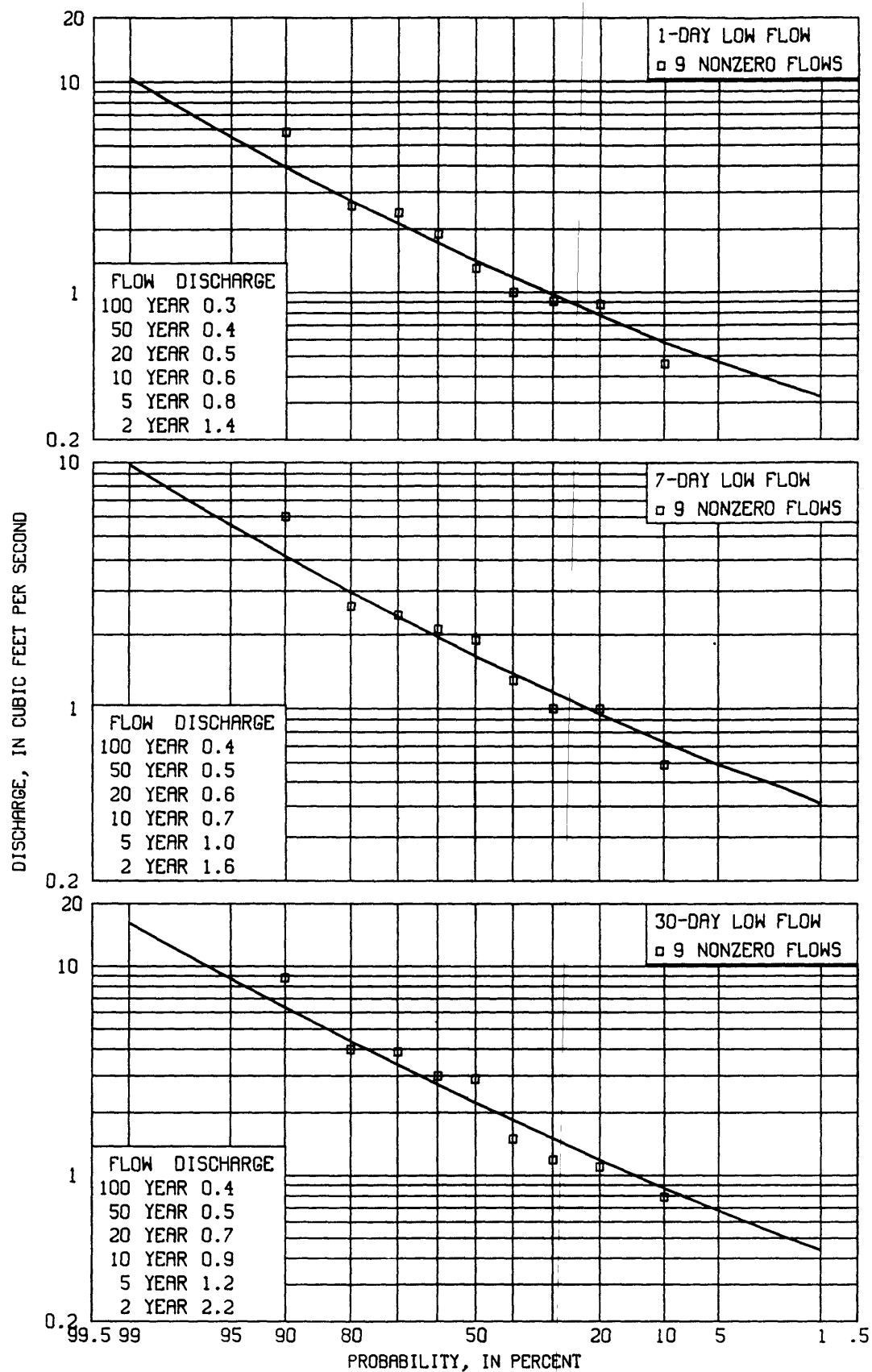
STATION 5320000 BLUE EARTH RIVER NEAR RAPIDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



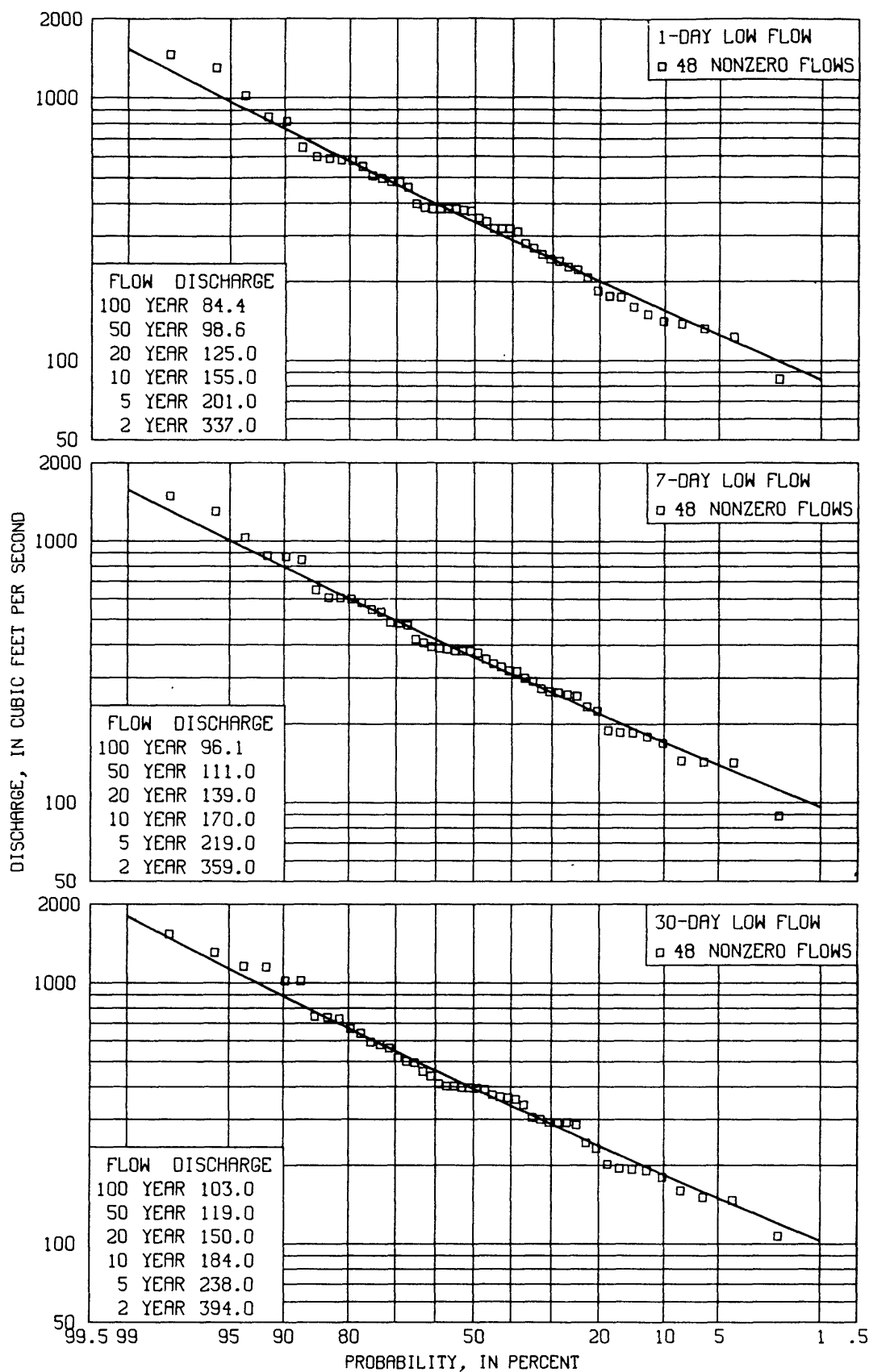
STATION 5320500 LE SUEUR RIVER NEAR RAPIDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



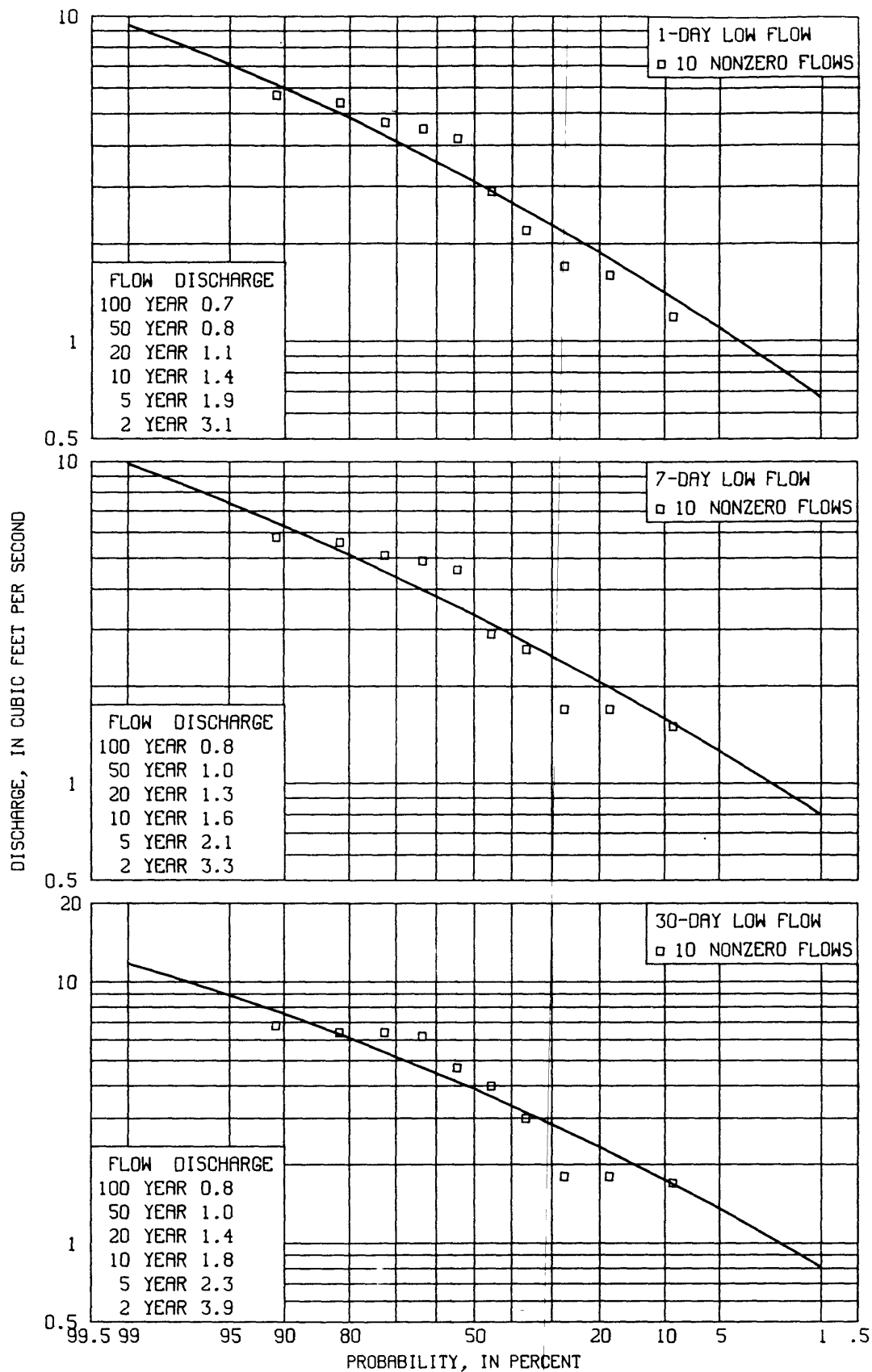
STATION 5325000 MINNESOTA RIVER AT MANKATO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



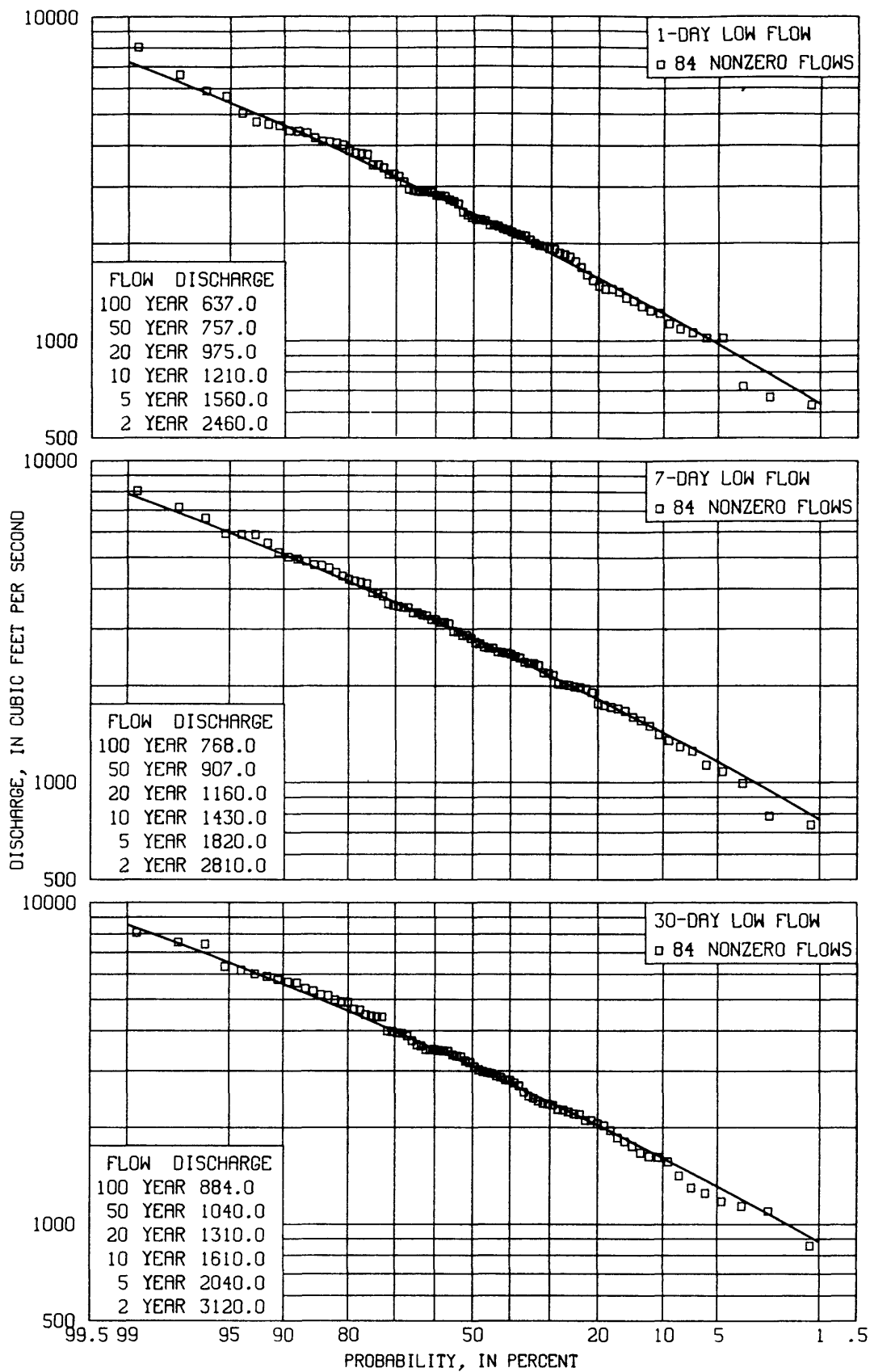
STATION 5327000 HIGH ISLAND CREEK NEAR HENDERSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



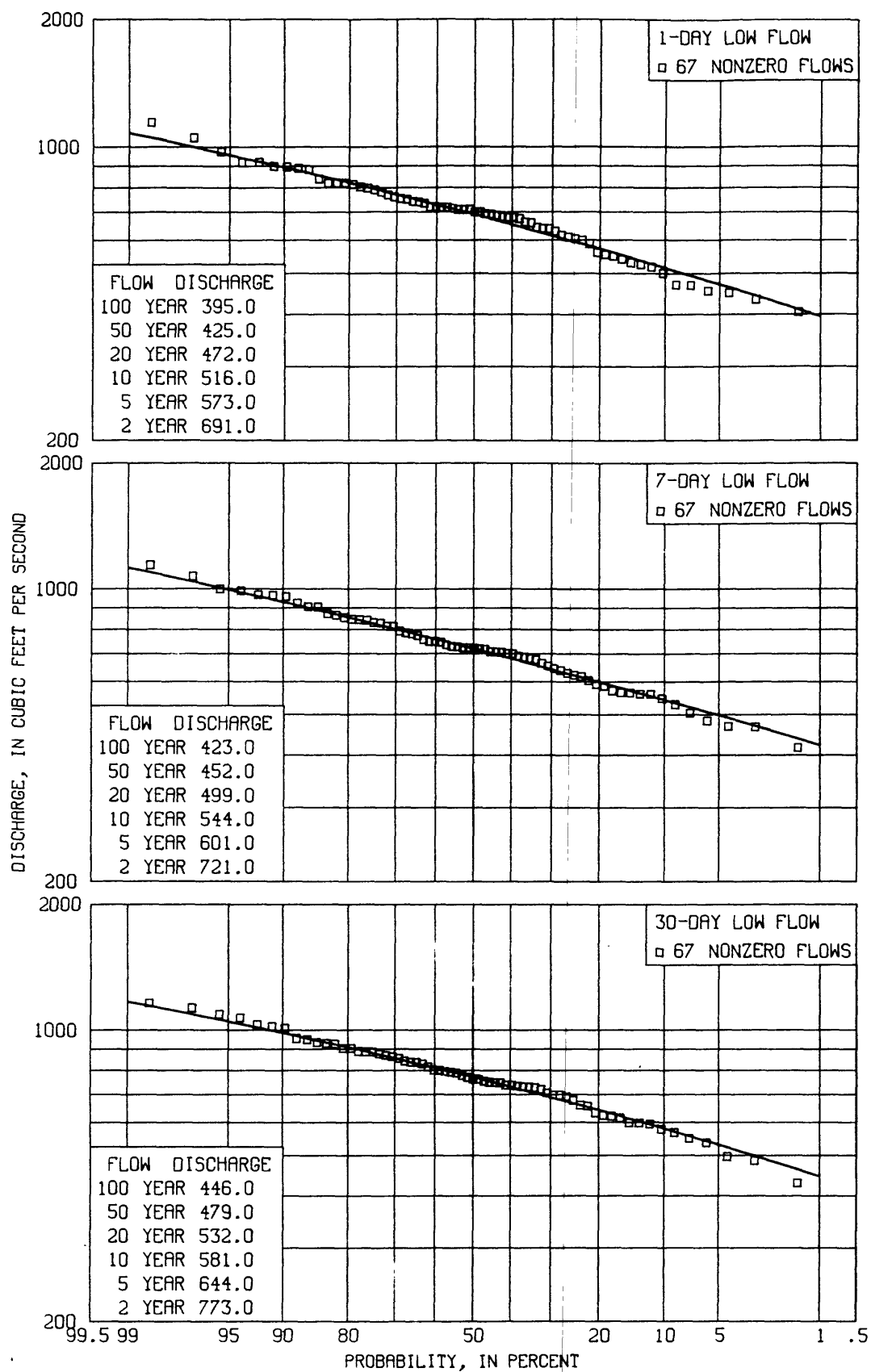
STATION 5330000 MINNESOTA RIVER NEAR JORDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



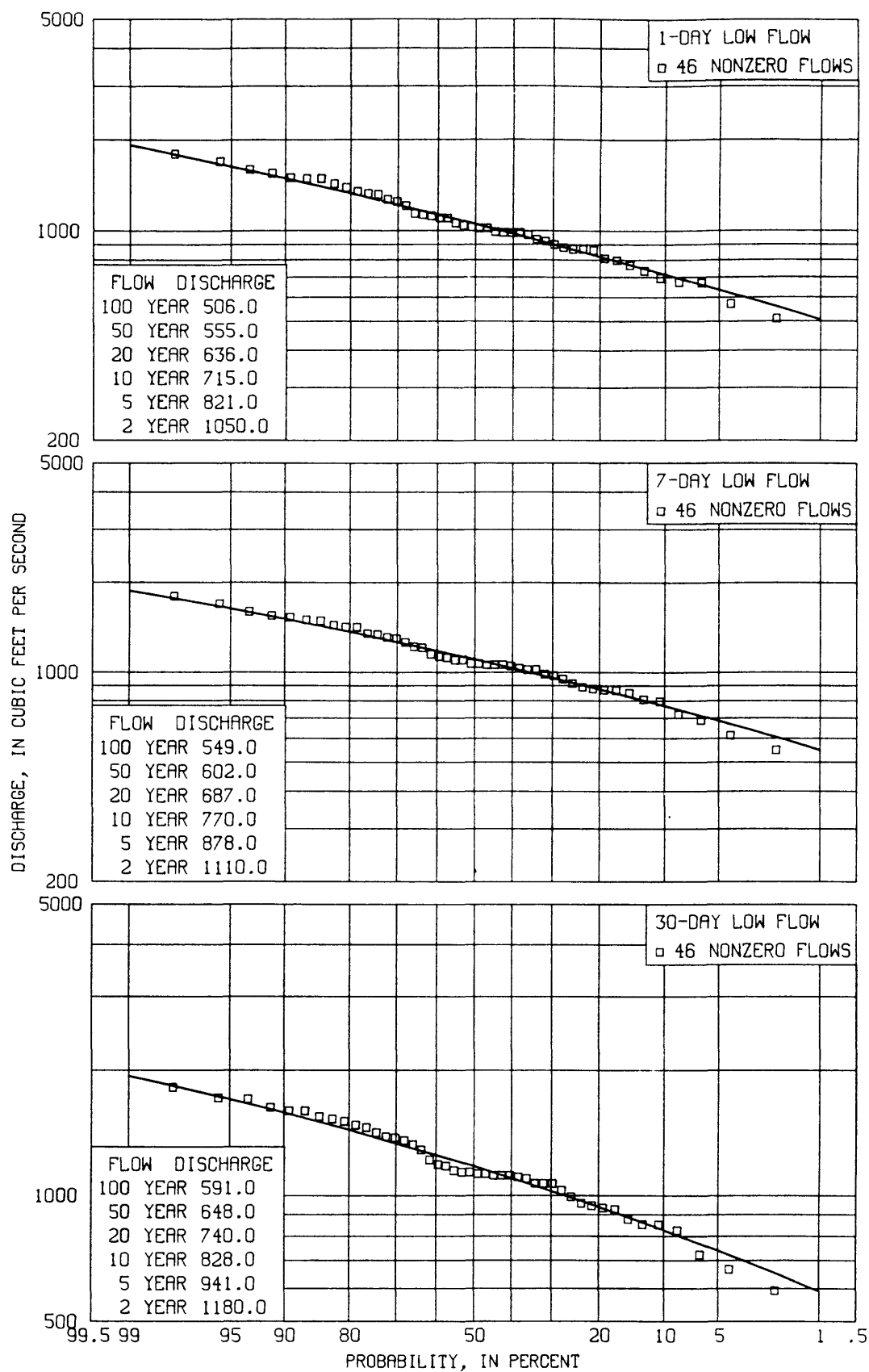
STATION 5330900 NINE MILE CREEK AT BLOOMINGTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



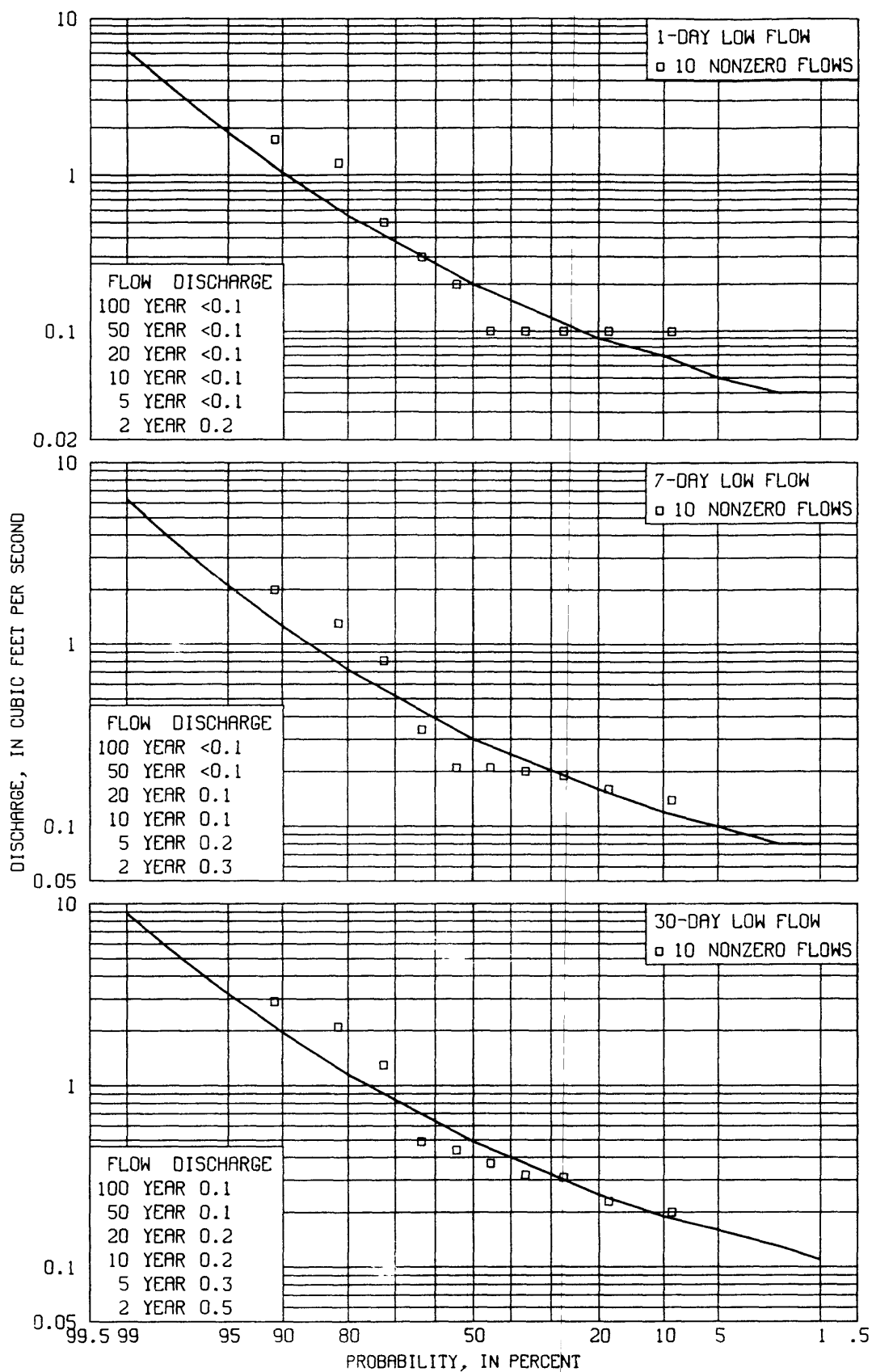
STATION 5331000 MISSISSIPPI RIVER AT ST. PAUL
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



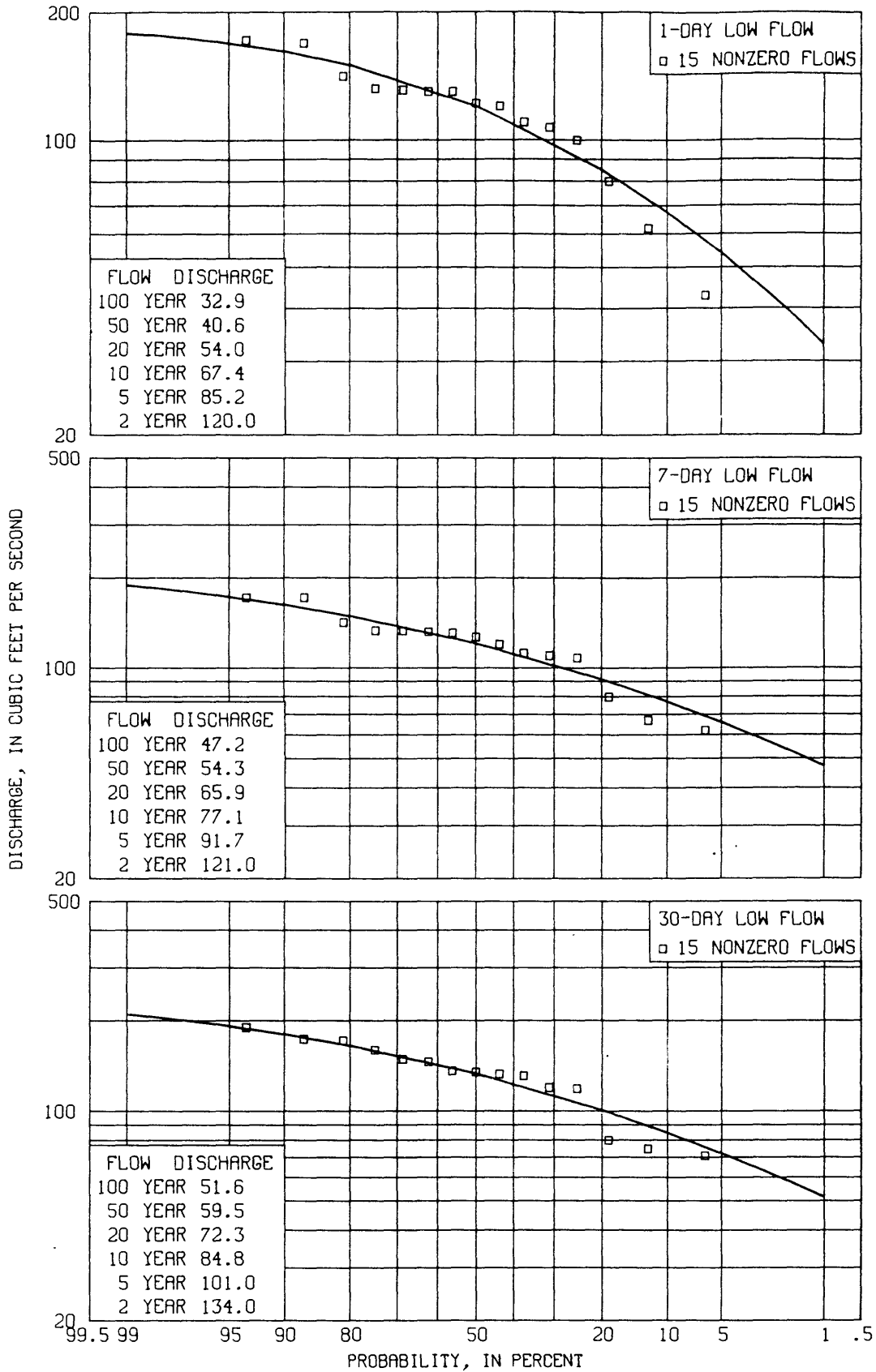
STATION 5333500 ST. CROIX RIVER NEAR DANBURY, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



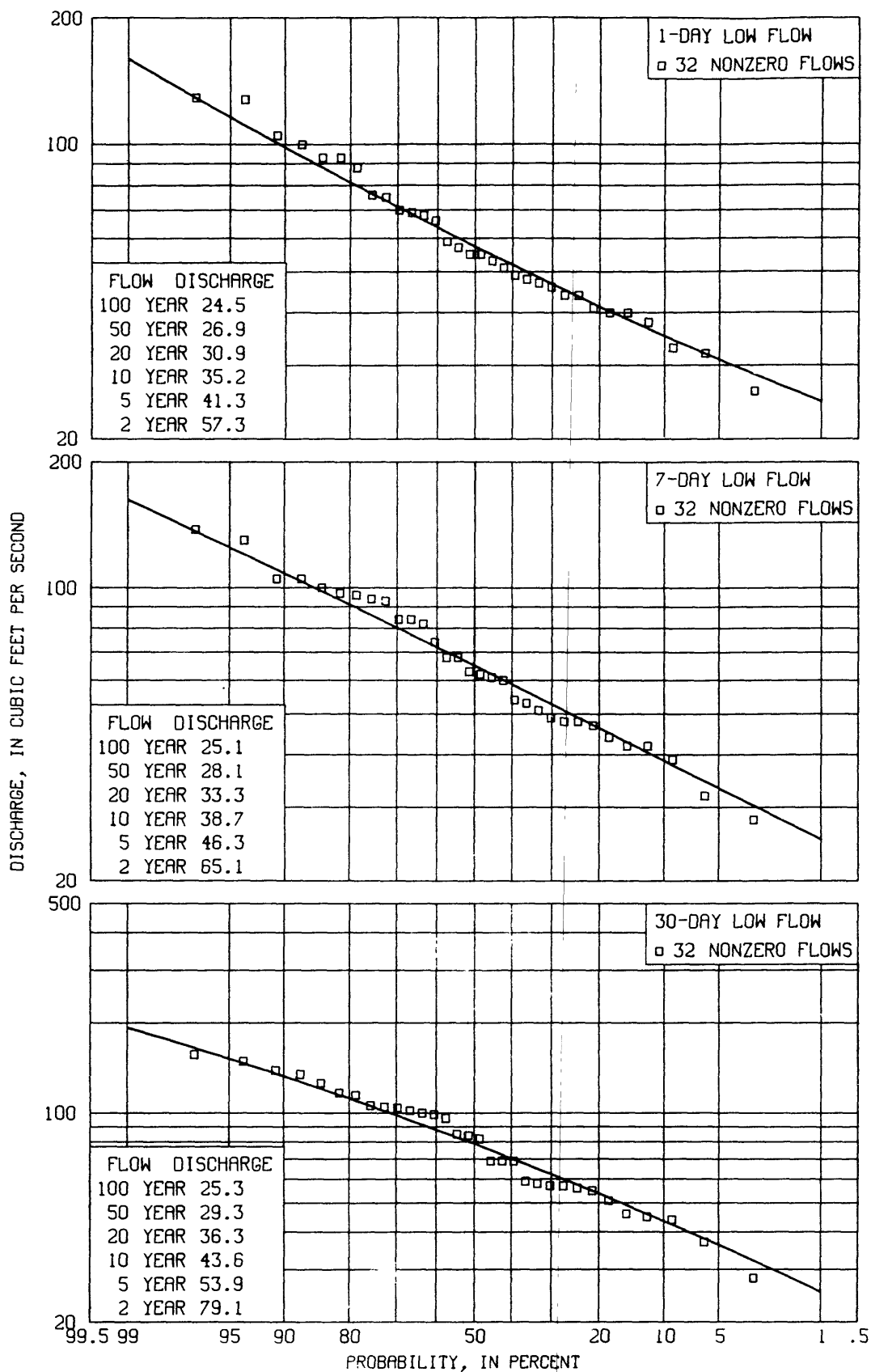
STATION 5336000 ST. CROIX RIVER NEAR GRANTSBURG, WI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



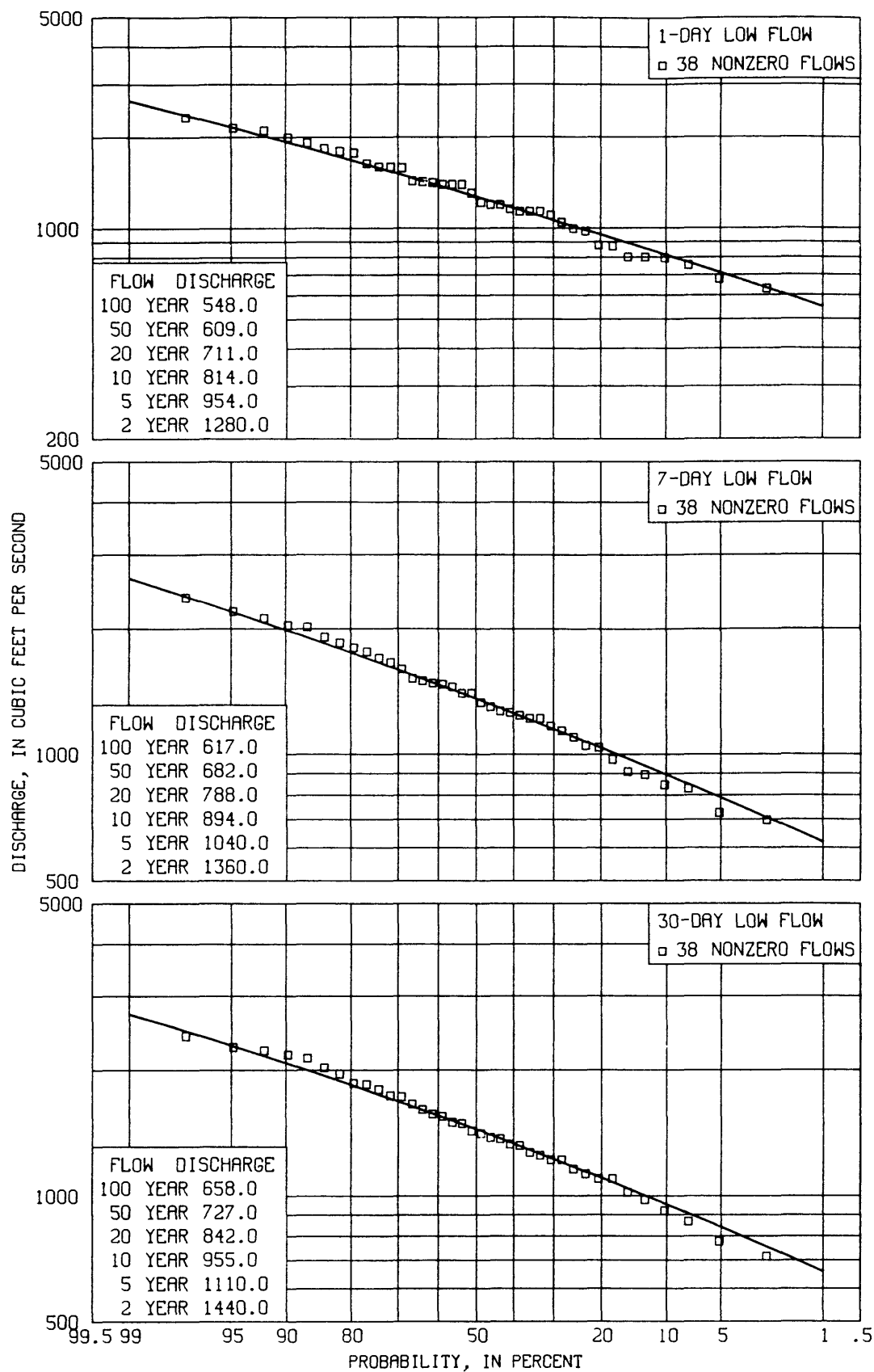
STATION 5336200 GLAISBY BROOK NEAR KETTLE RIVER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



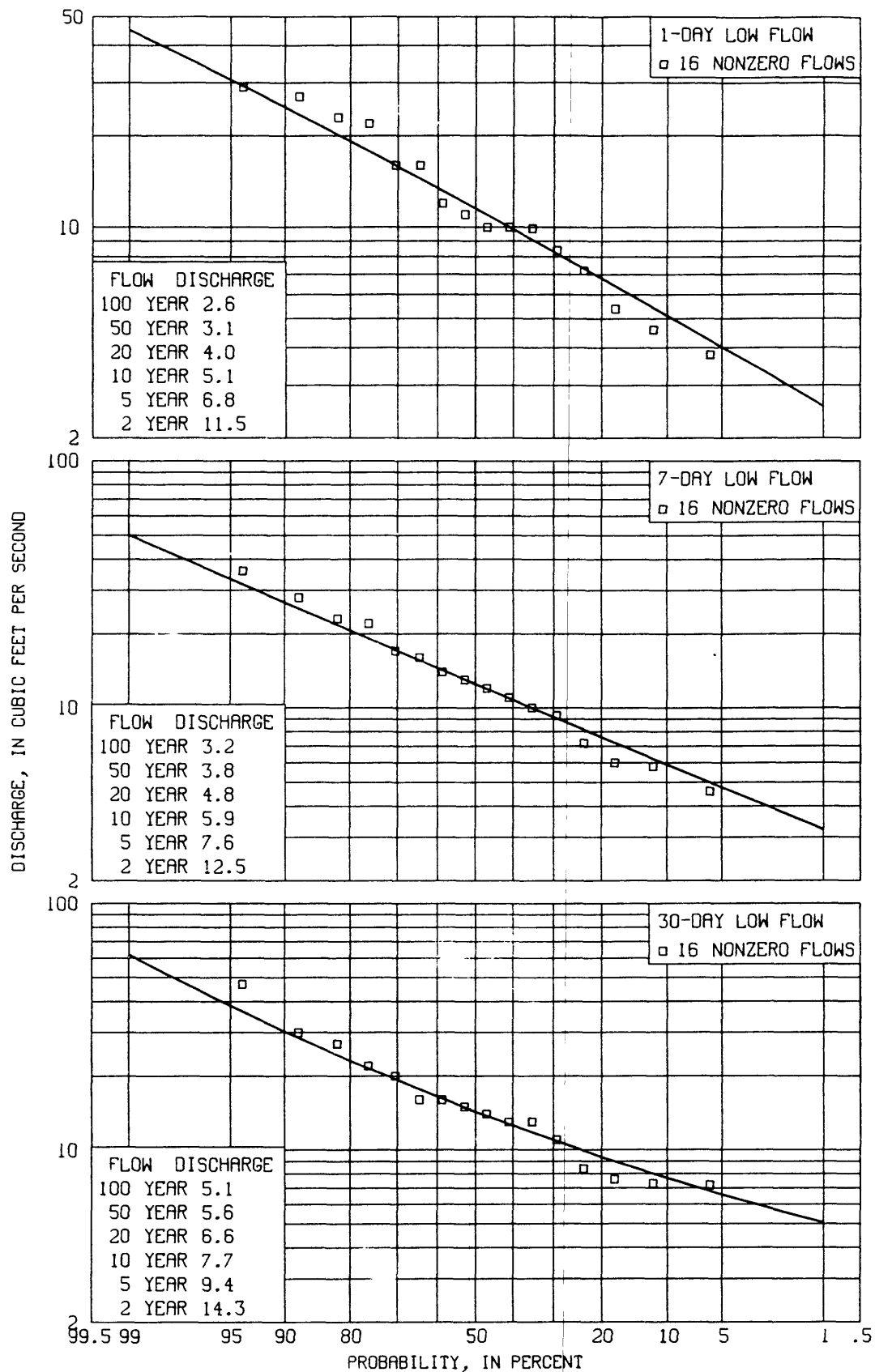
STATION 5336700 KETTLE RIVER BELOW SANDSTONE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



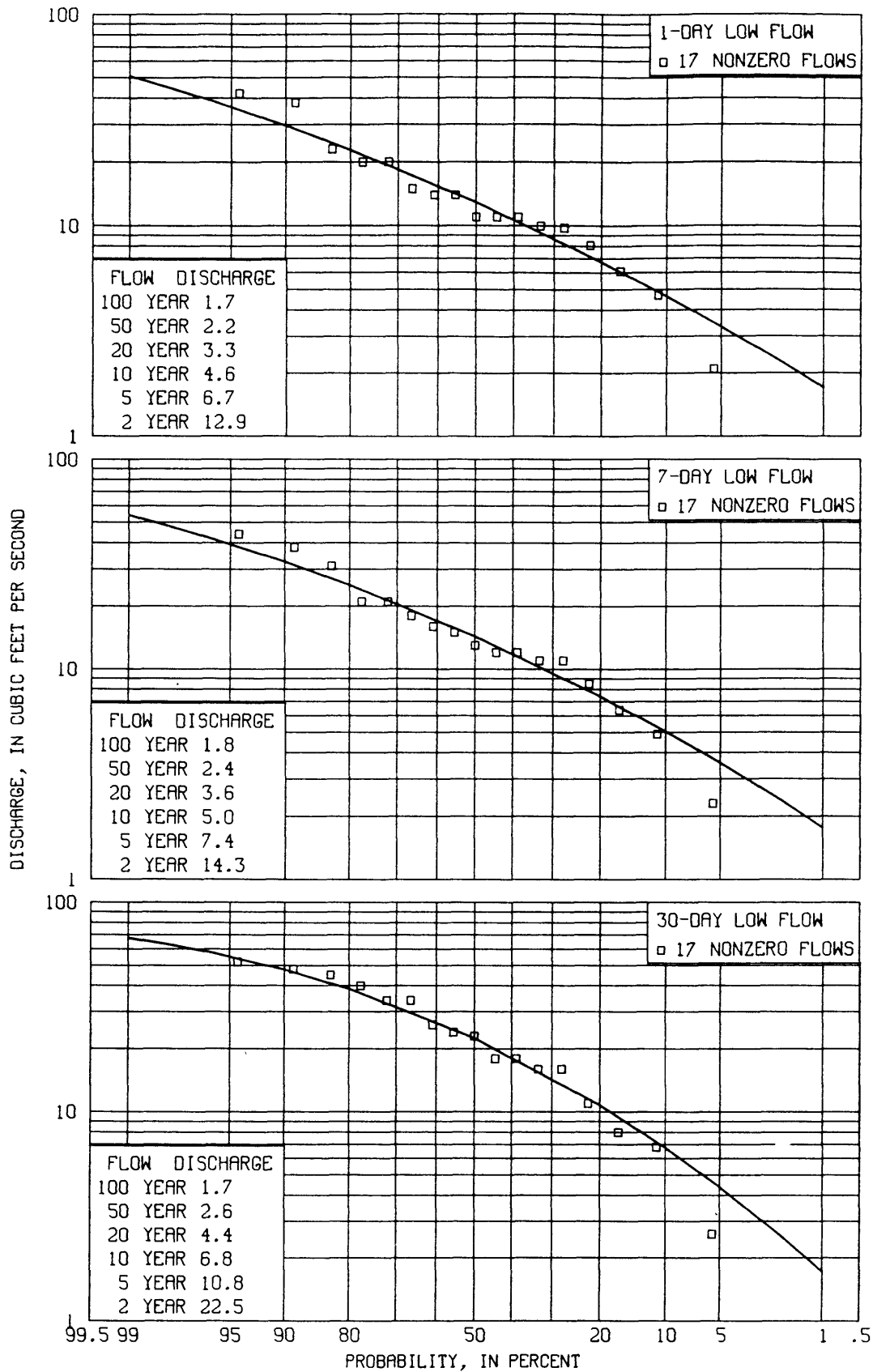
STATION 5338500 SNAKE RIVER NEAR PINE CITY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



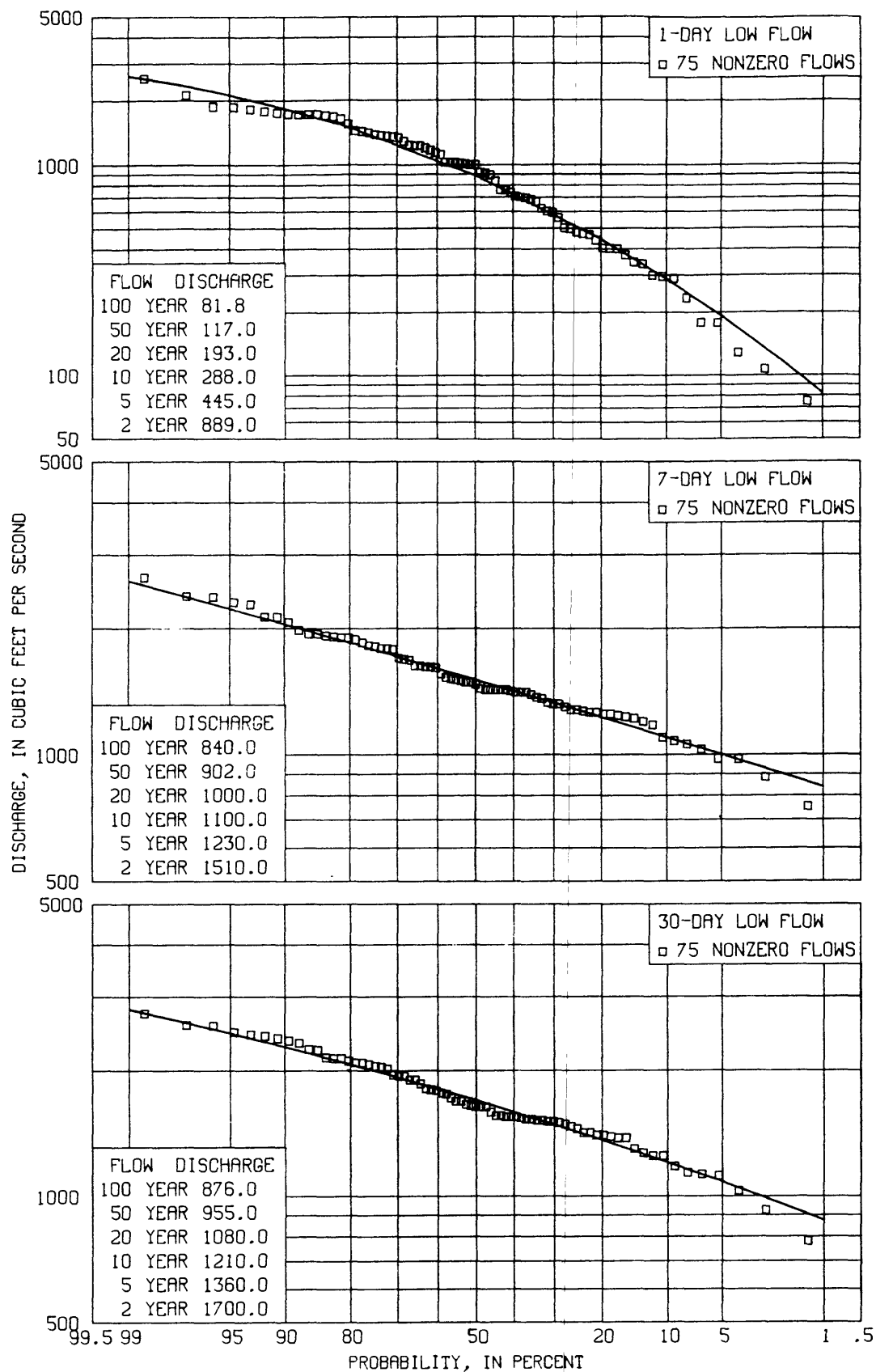
STATION 5339500 ST. CROIX RIVER NEAR RUSH CITY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



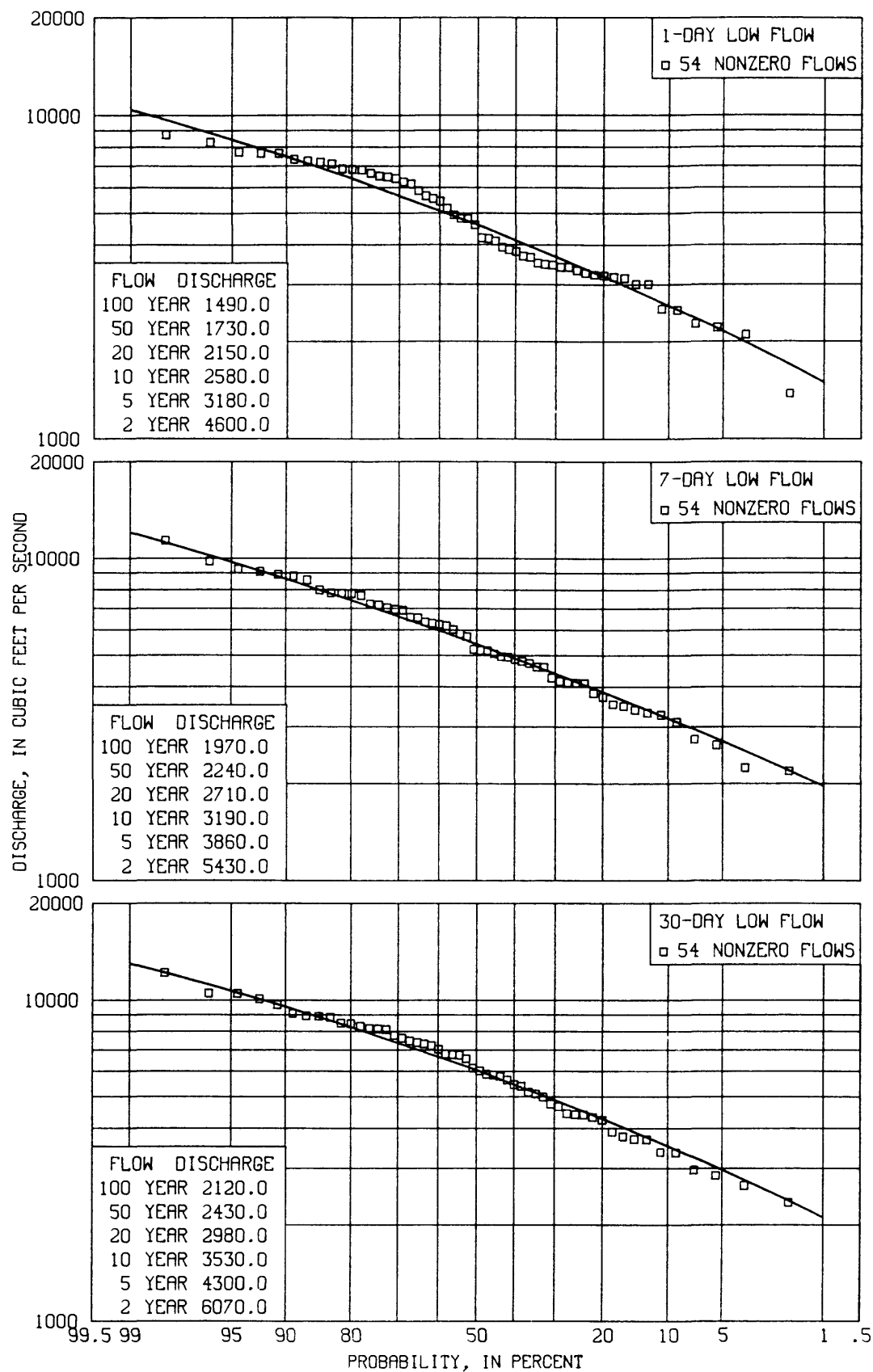
STATION 5340000 SUNRISE RIVER NEAR STACY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



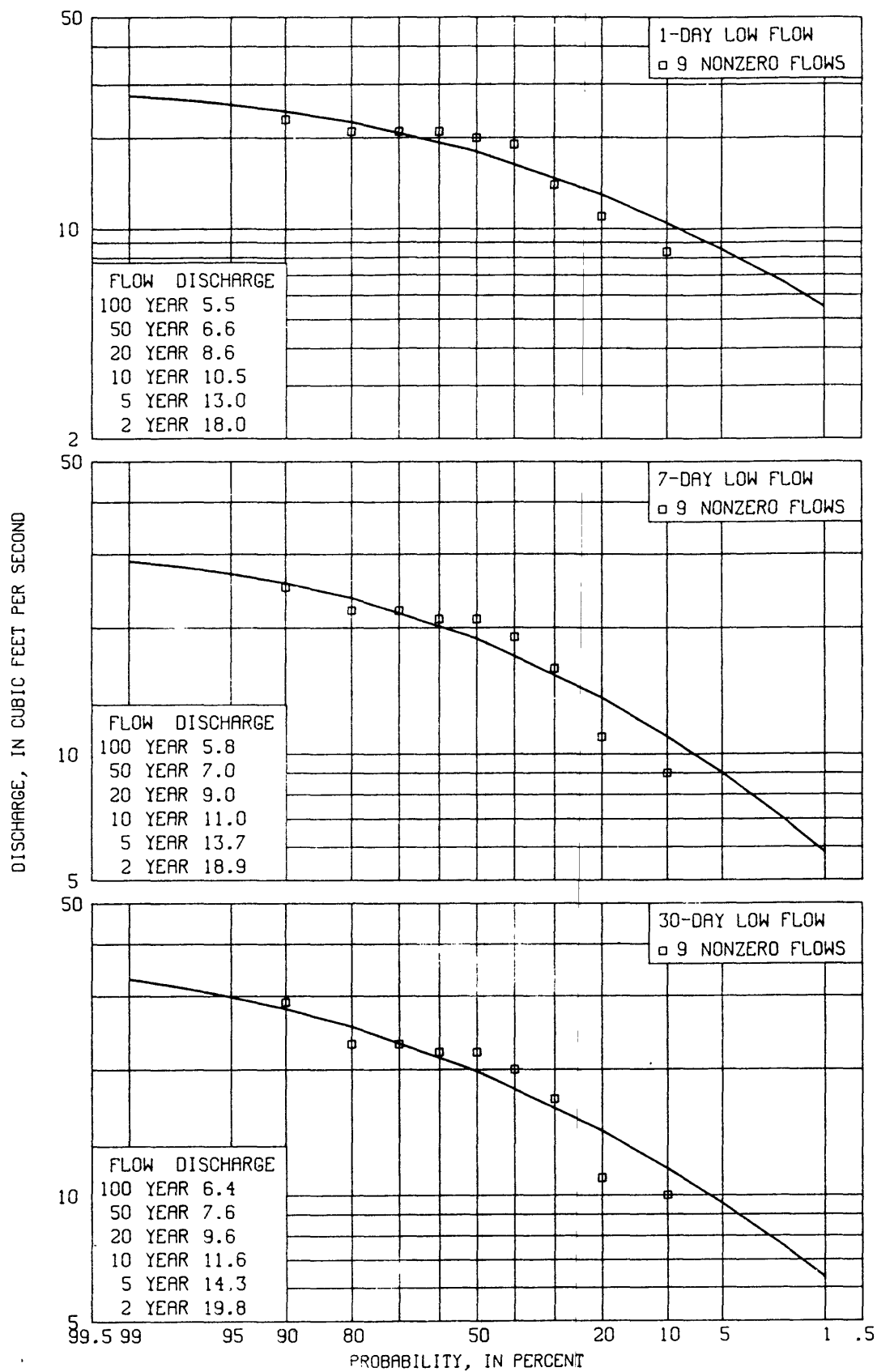
STATION 5340050 SUNRISE RIVER NEAR LINDSTROM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



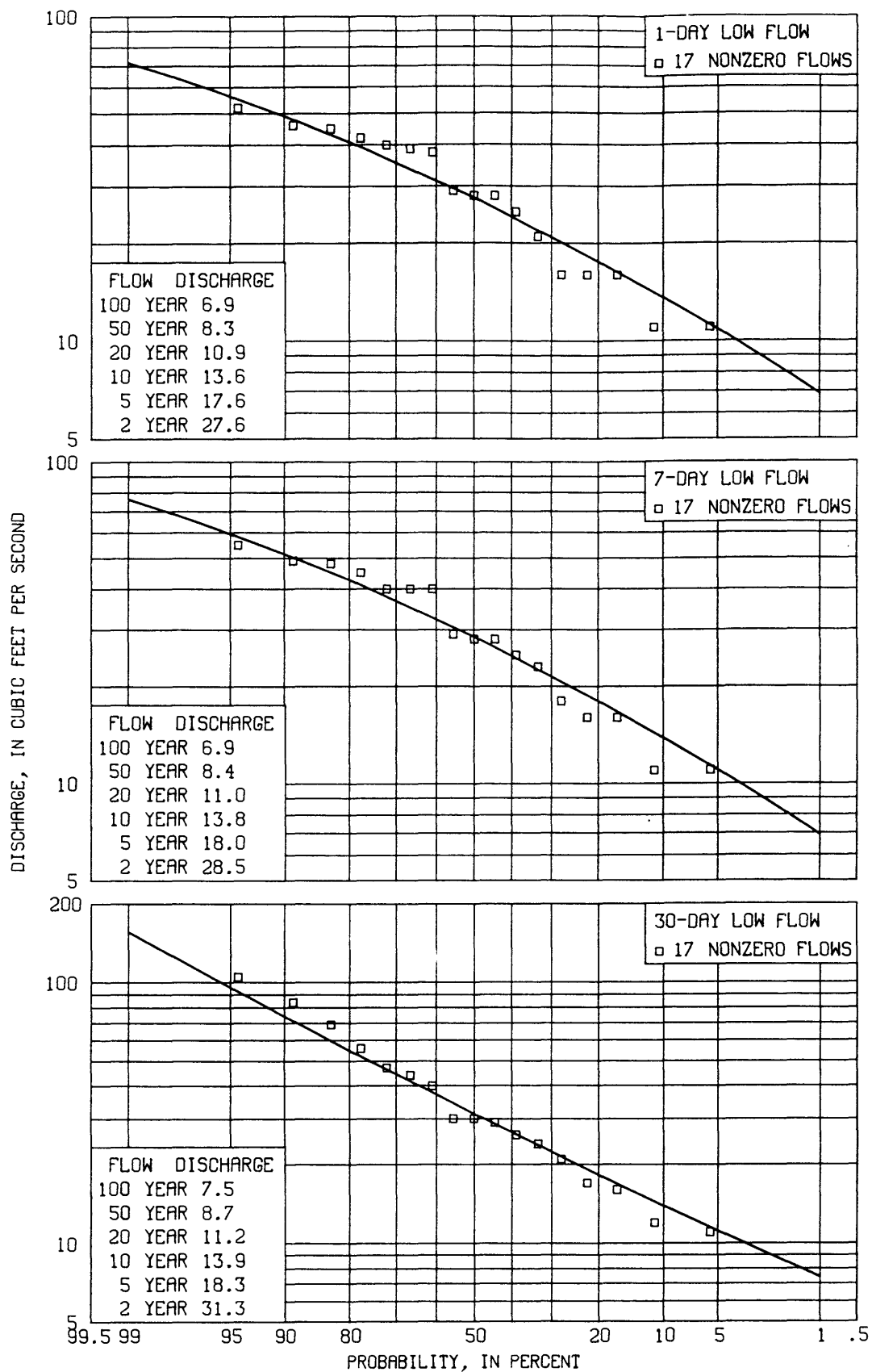
STATION 5340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



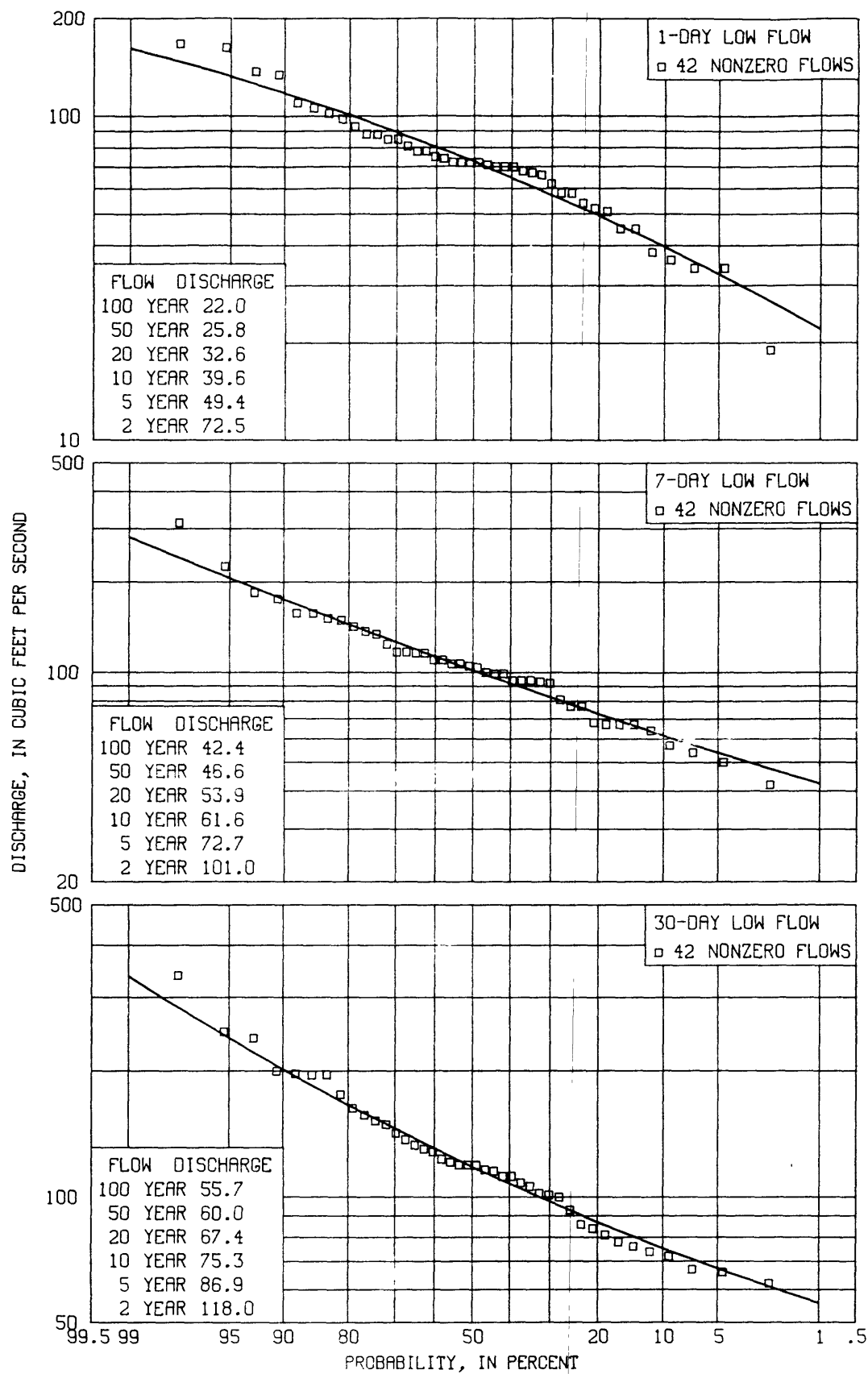
STATION 5344500 MISSISSIPPI RIVER AT PRESCOTT, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



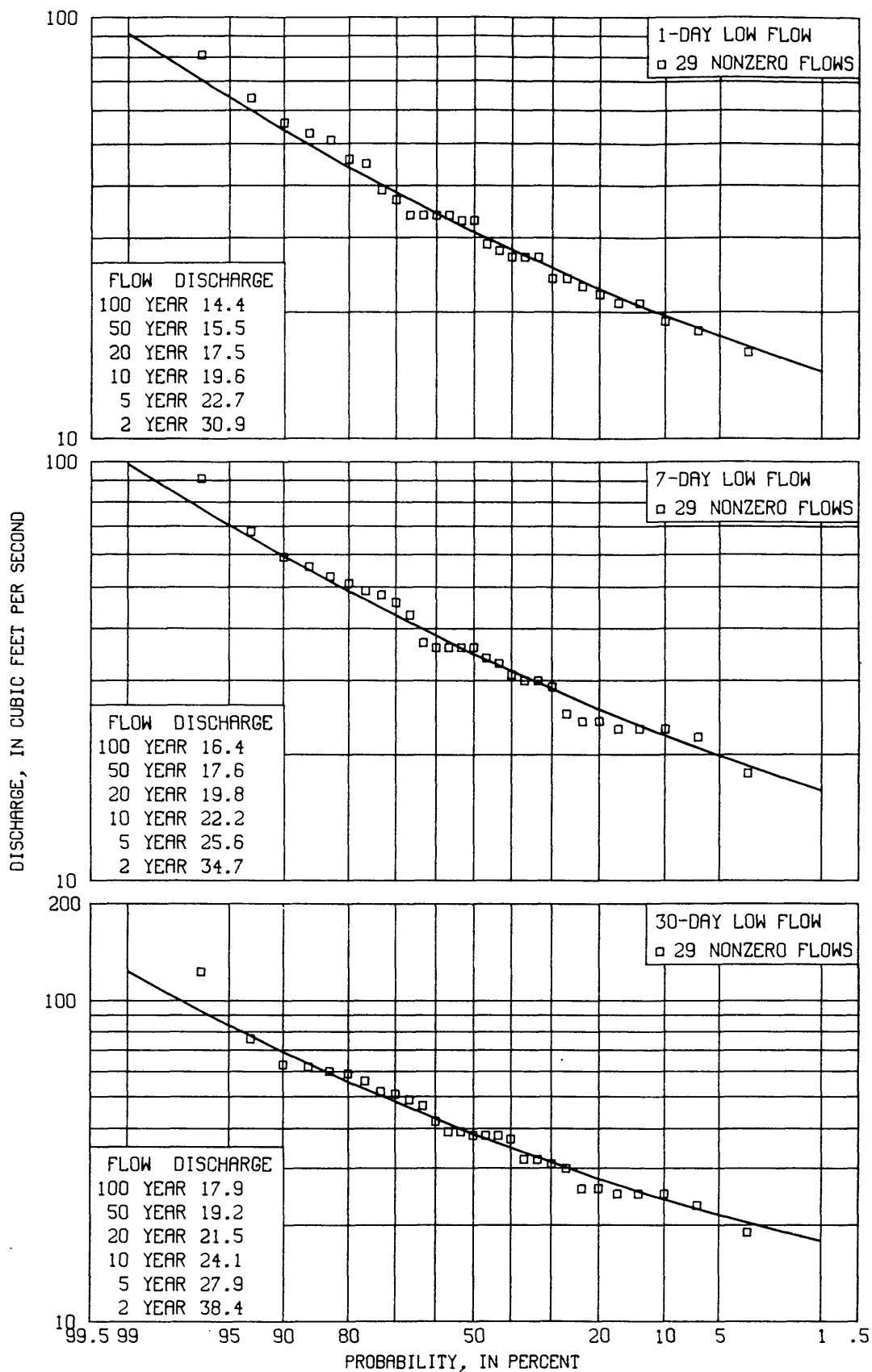
STATION 5345000 VERMILLION RIVER NEAR EMPIRE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



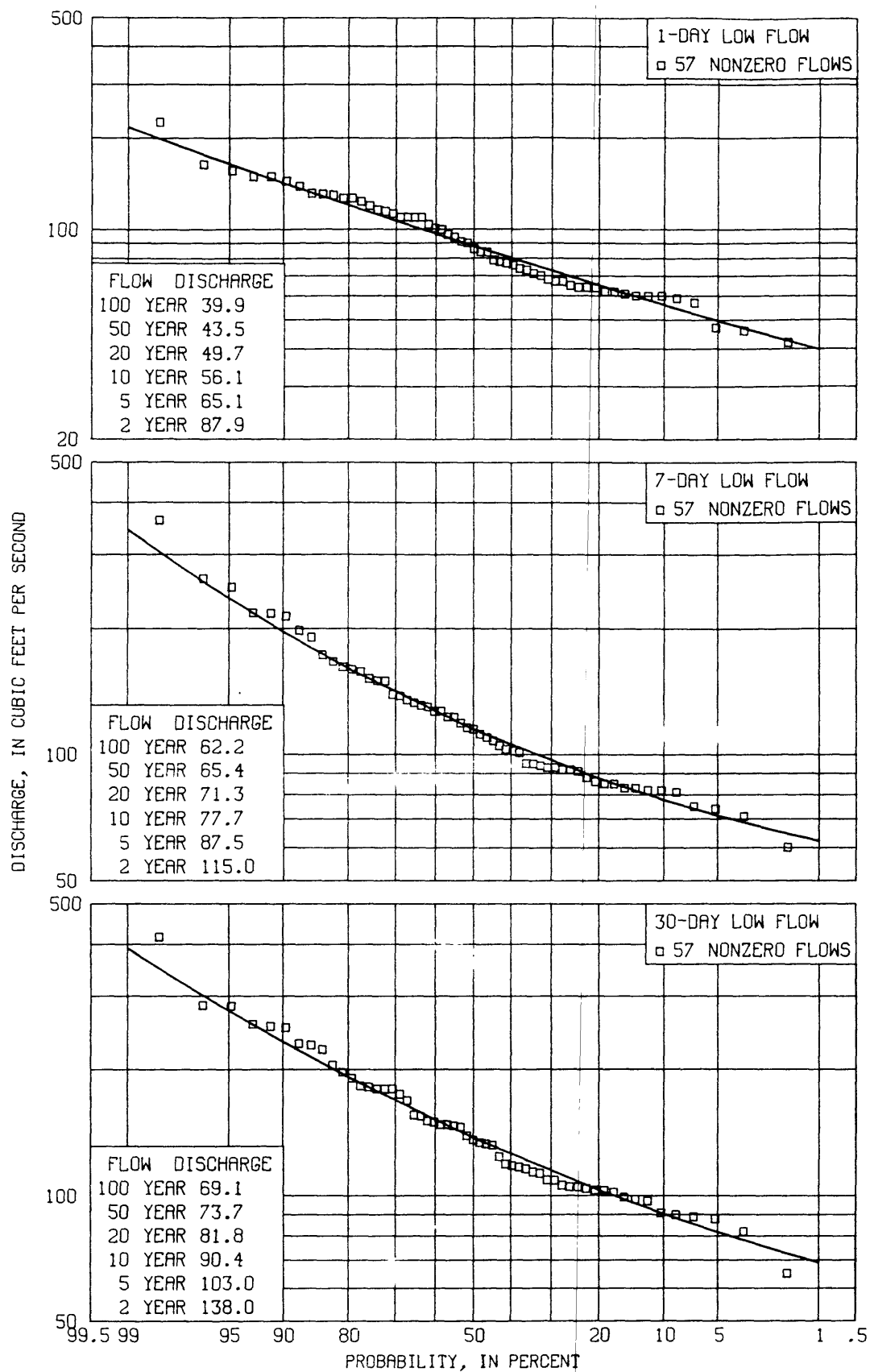
STATION 5353800 STRAIGHT RIVER NEAR FARIBAULT
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



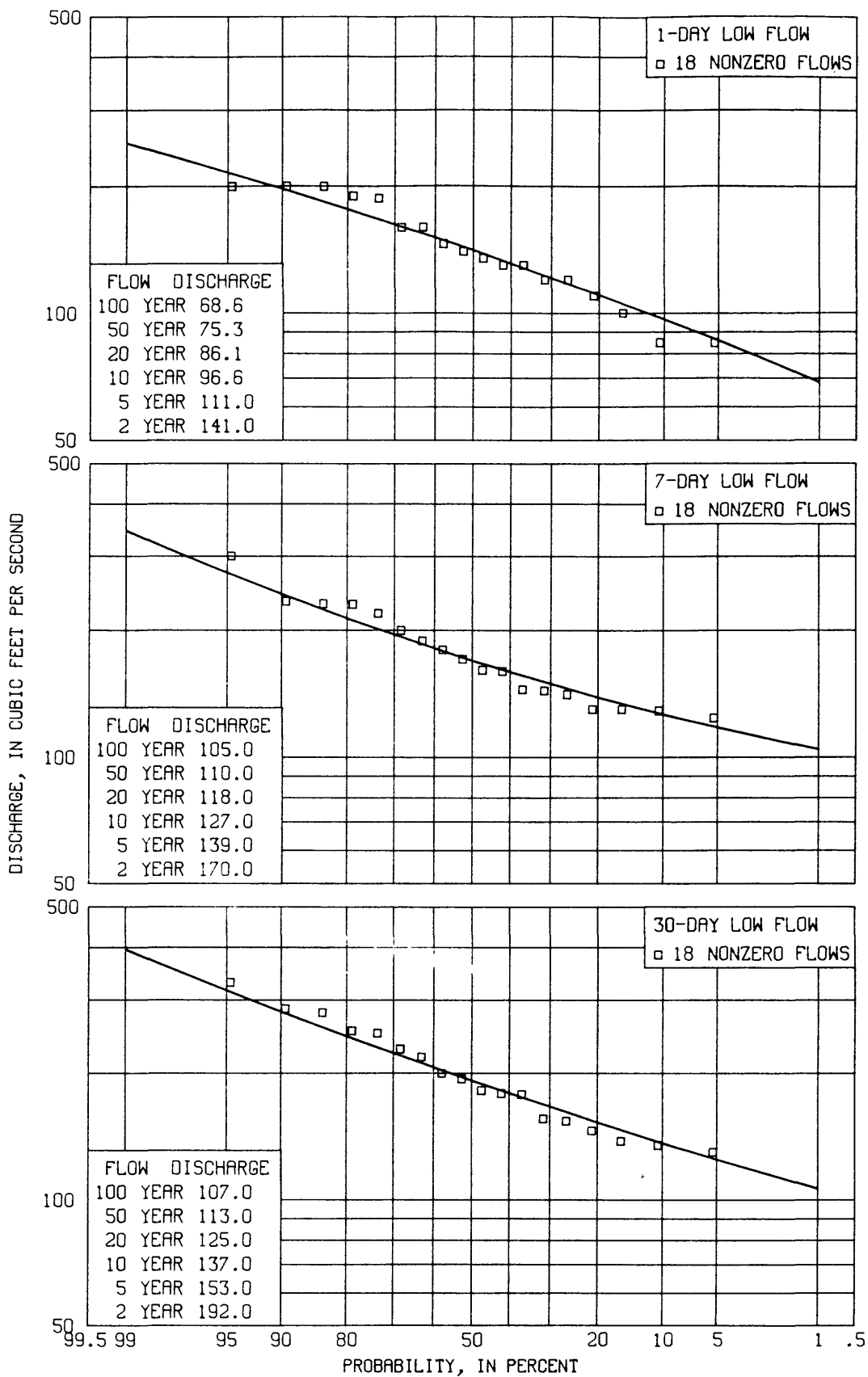
STATION 5355200 CANNON RIVER AT WELCH
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



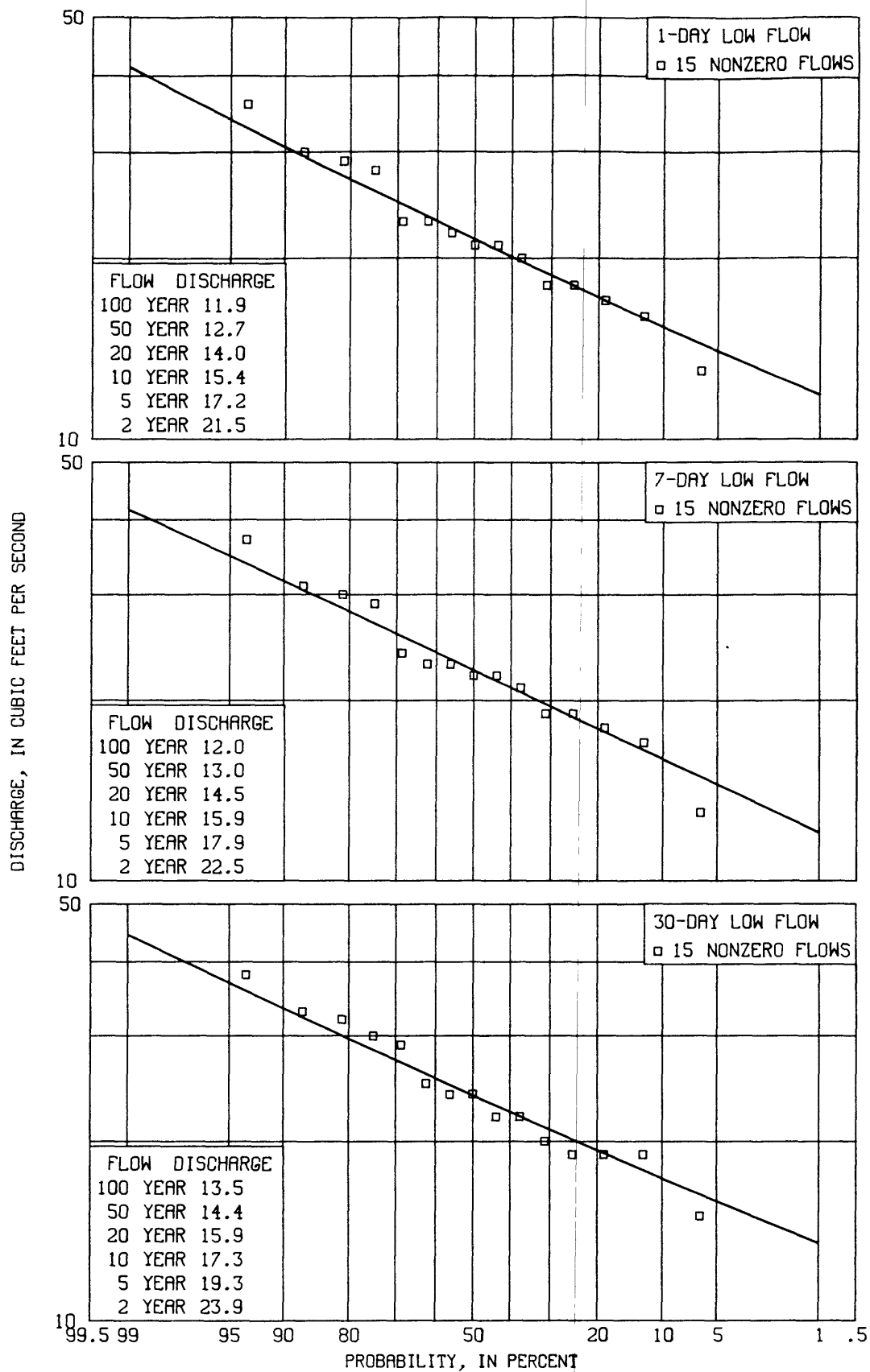
STATION 5373000 SOUTH FORK ZUMBRO RIVER NEAR ROCHESTER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



STATION 5374000 ZUMBRO RIVER AT ZUMBRO FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31

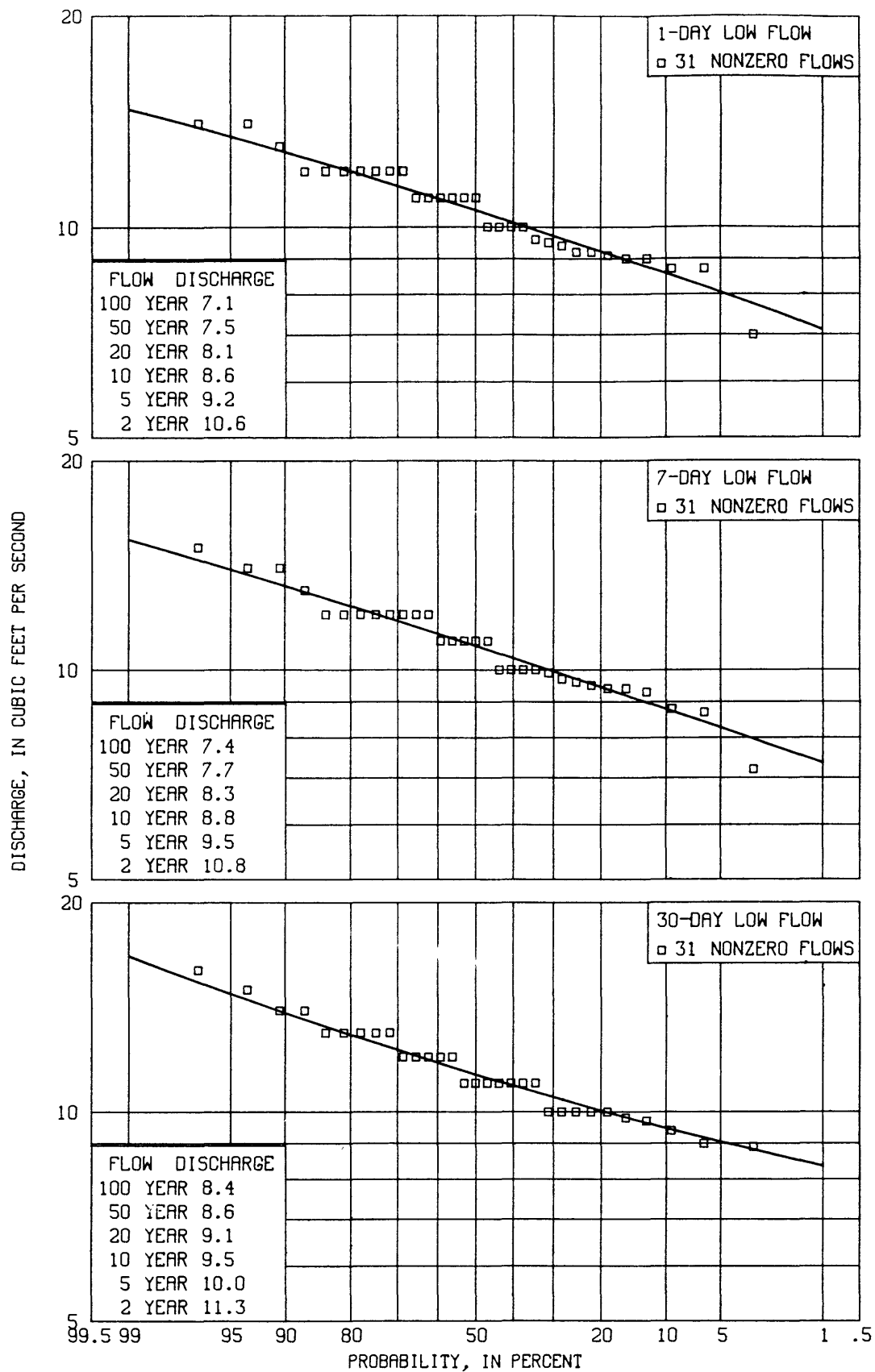


STATION 5374500 ZUMBRO RIVER AT THEILMAN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31

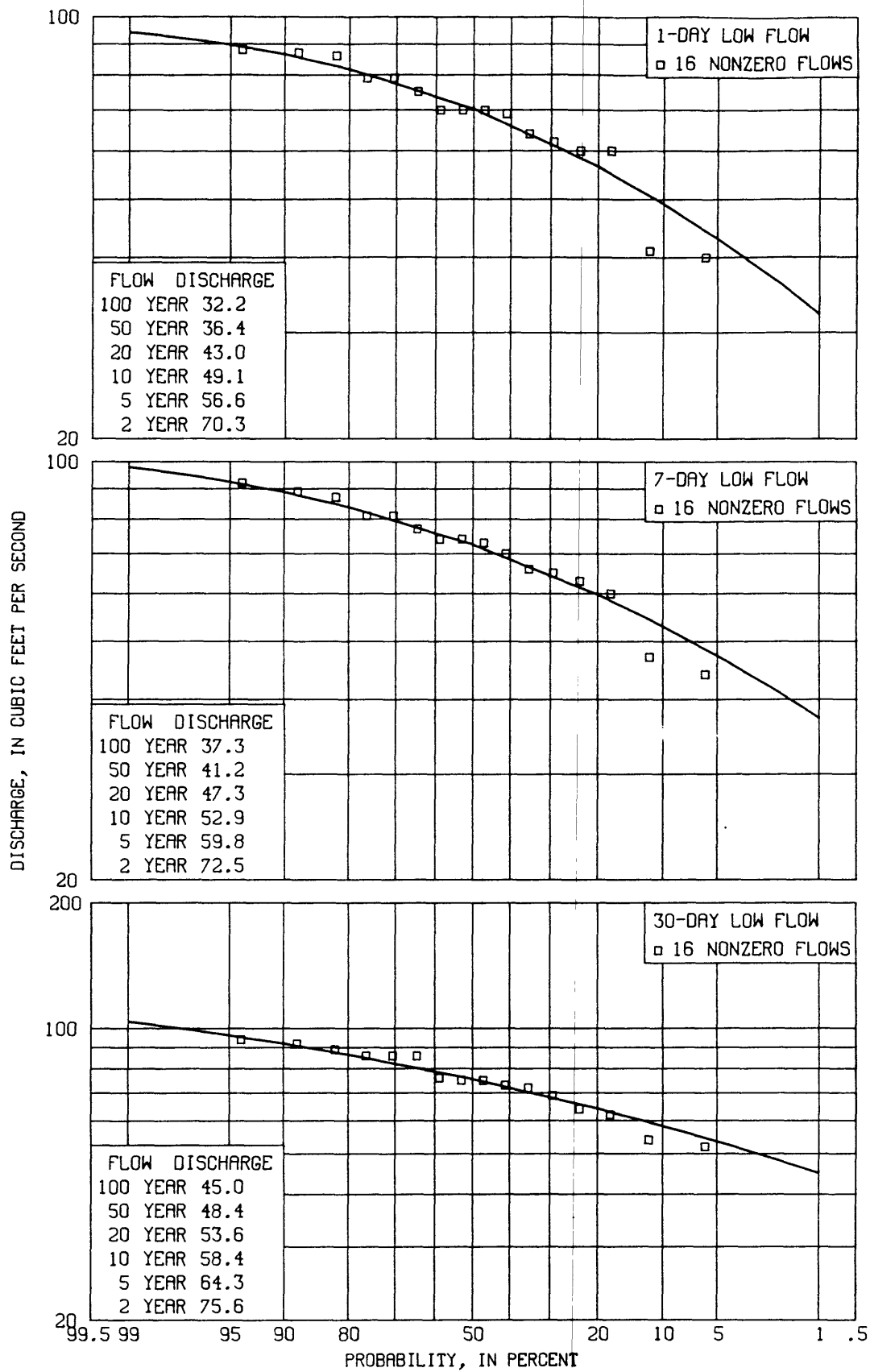


STATION 5376000 NORTH FORK WHITEWATER RIVER NEAR ELBA

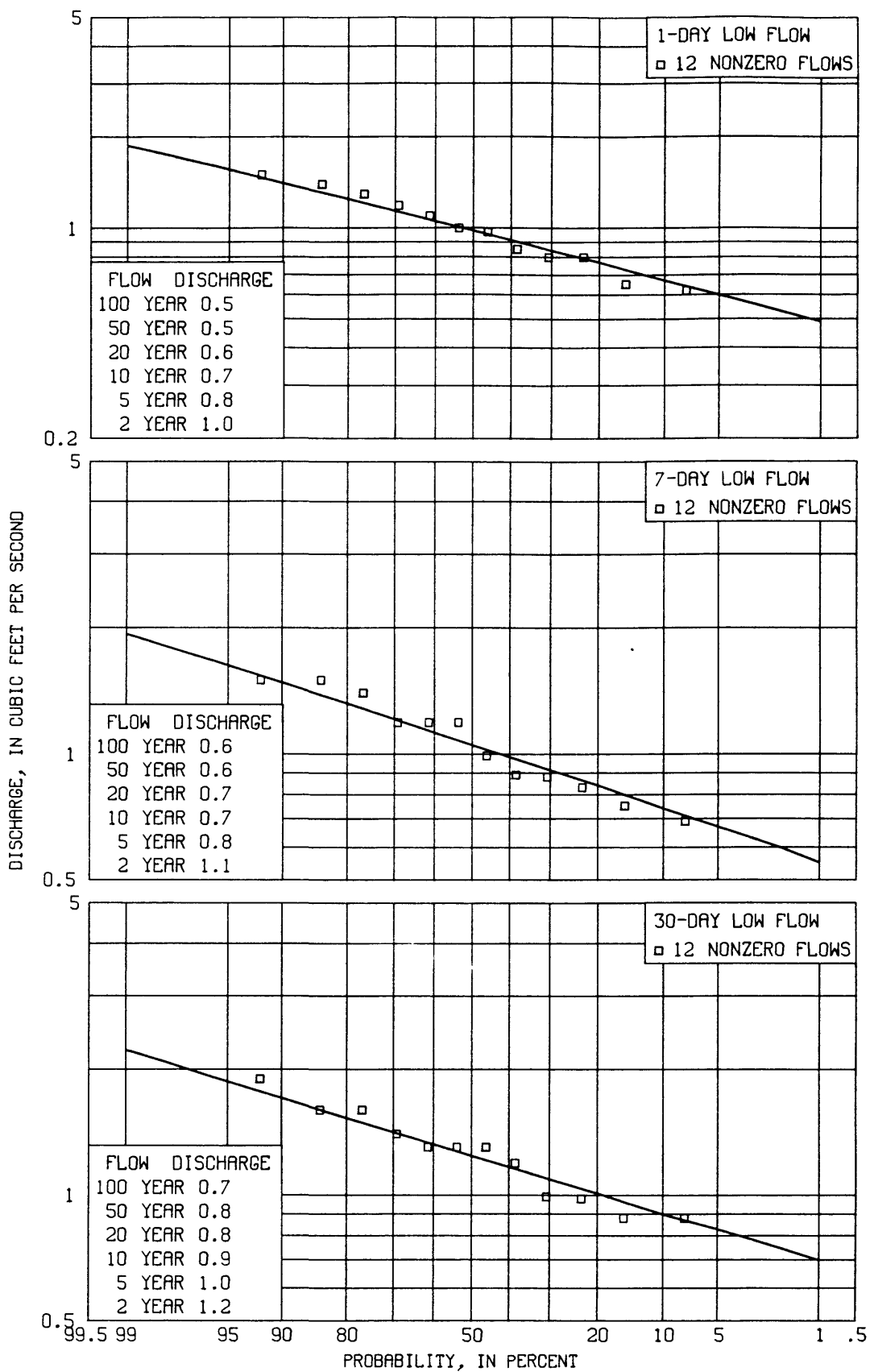
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



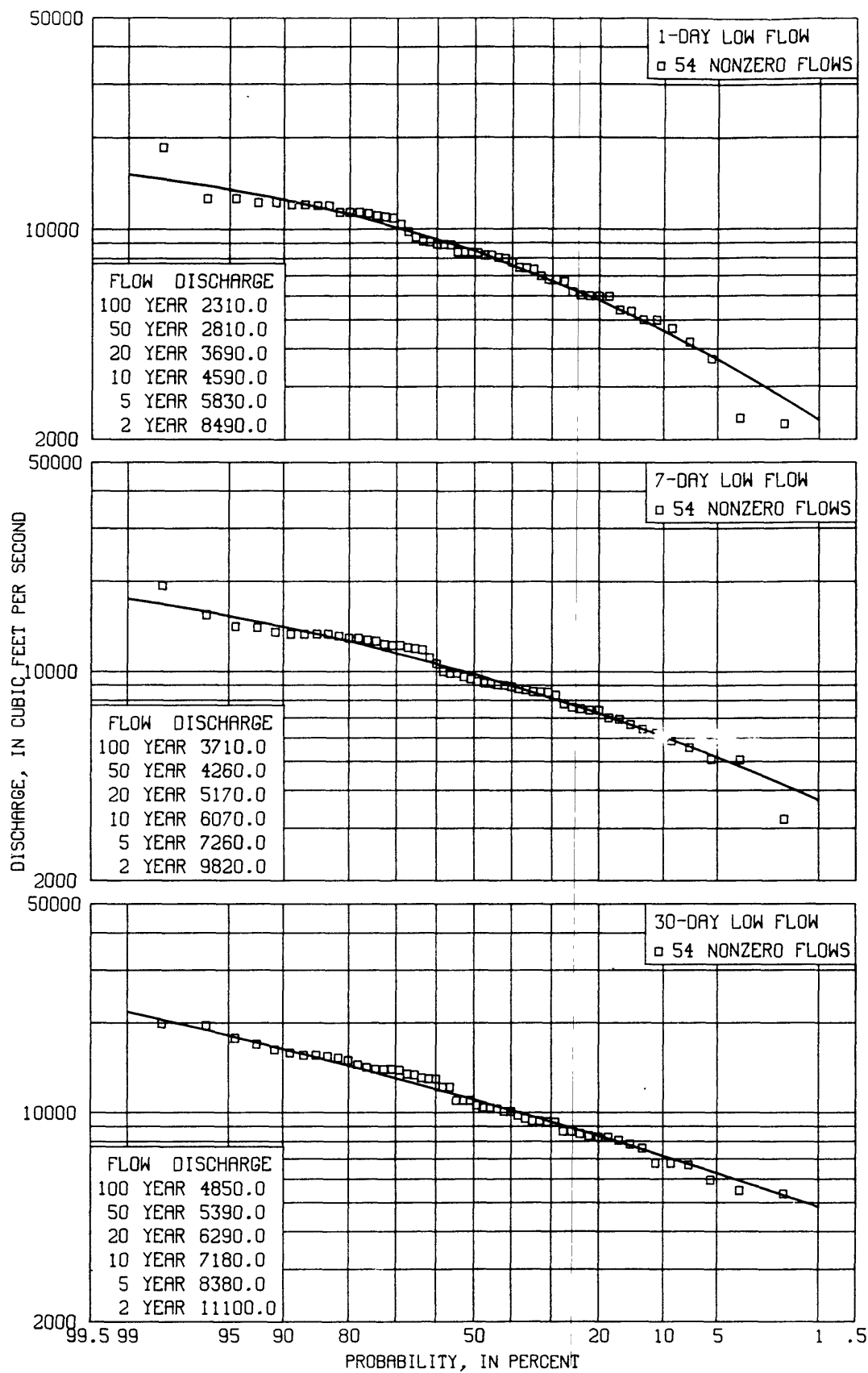
STATION 5376500 SOUTH FORK WHITEWATER RIVER NEAR ALTURA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



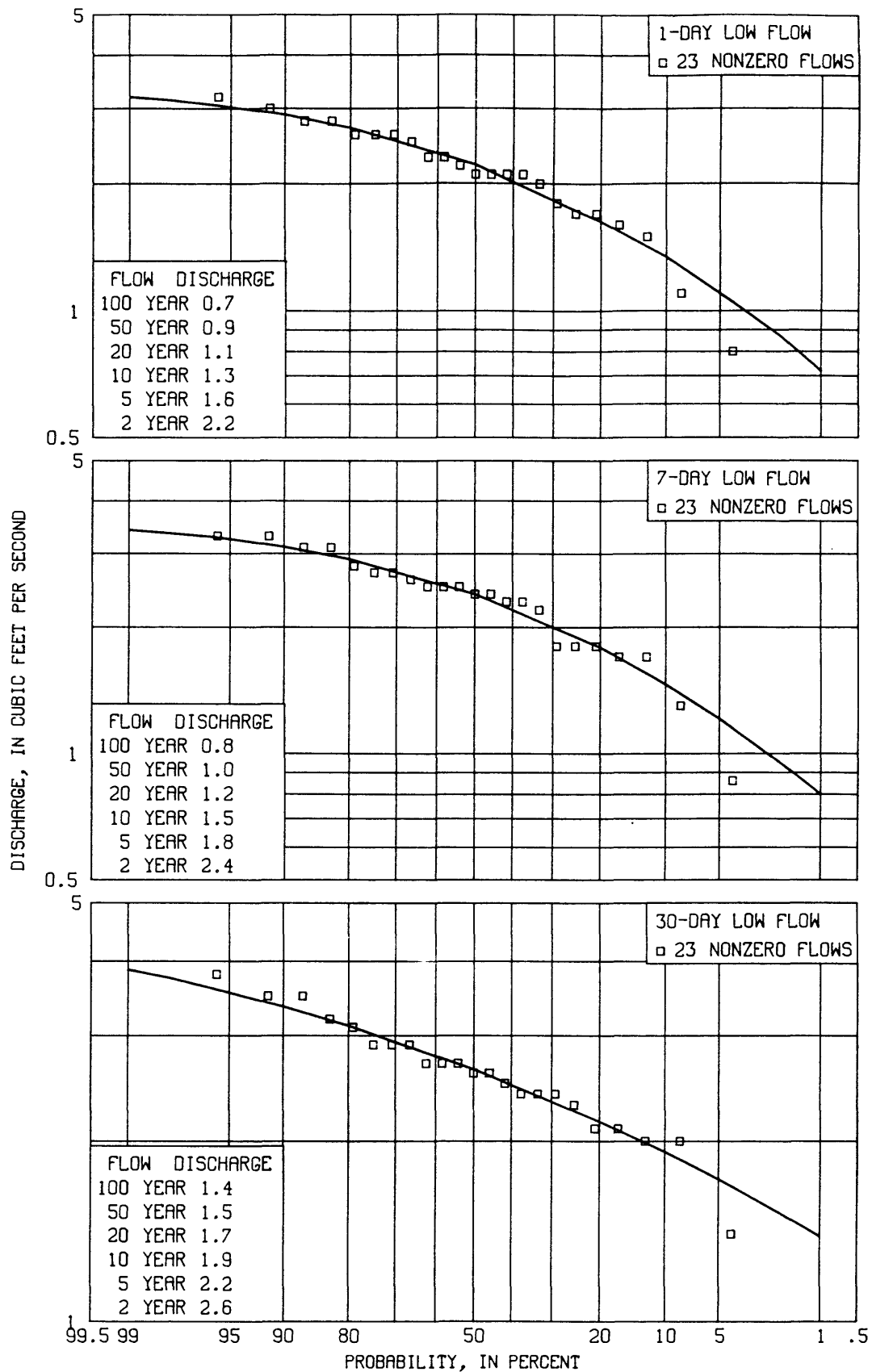
STATION 5377500 WHITEWATER RIVER AT BEAVER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



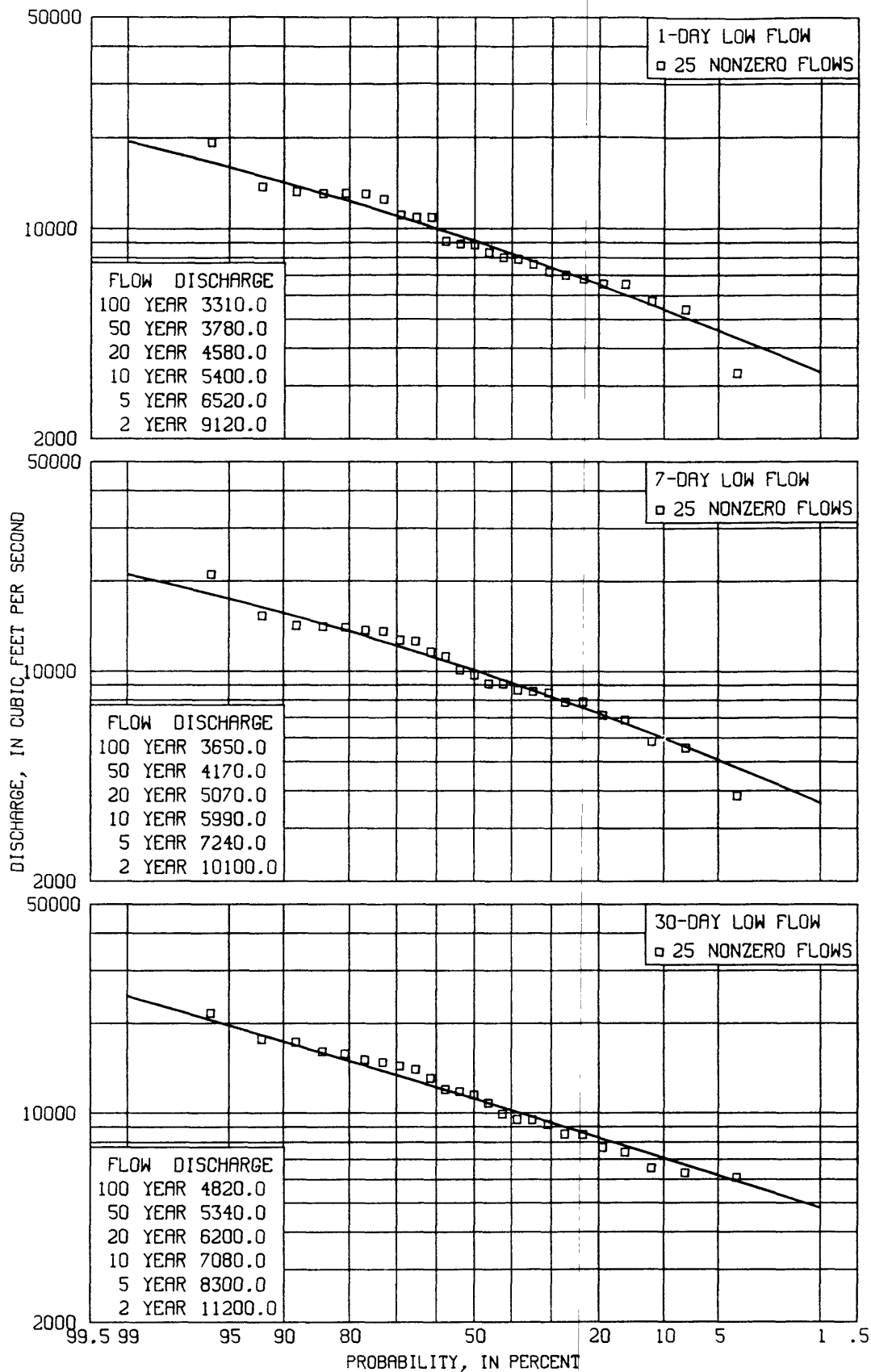
STATION 5378300 STRAIGHT VALLEY CREEK NEAR ROLLINGSTONE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



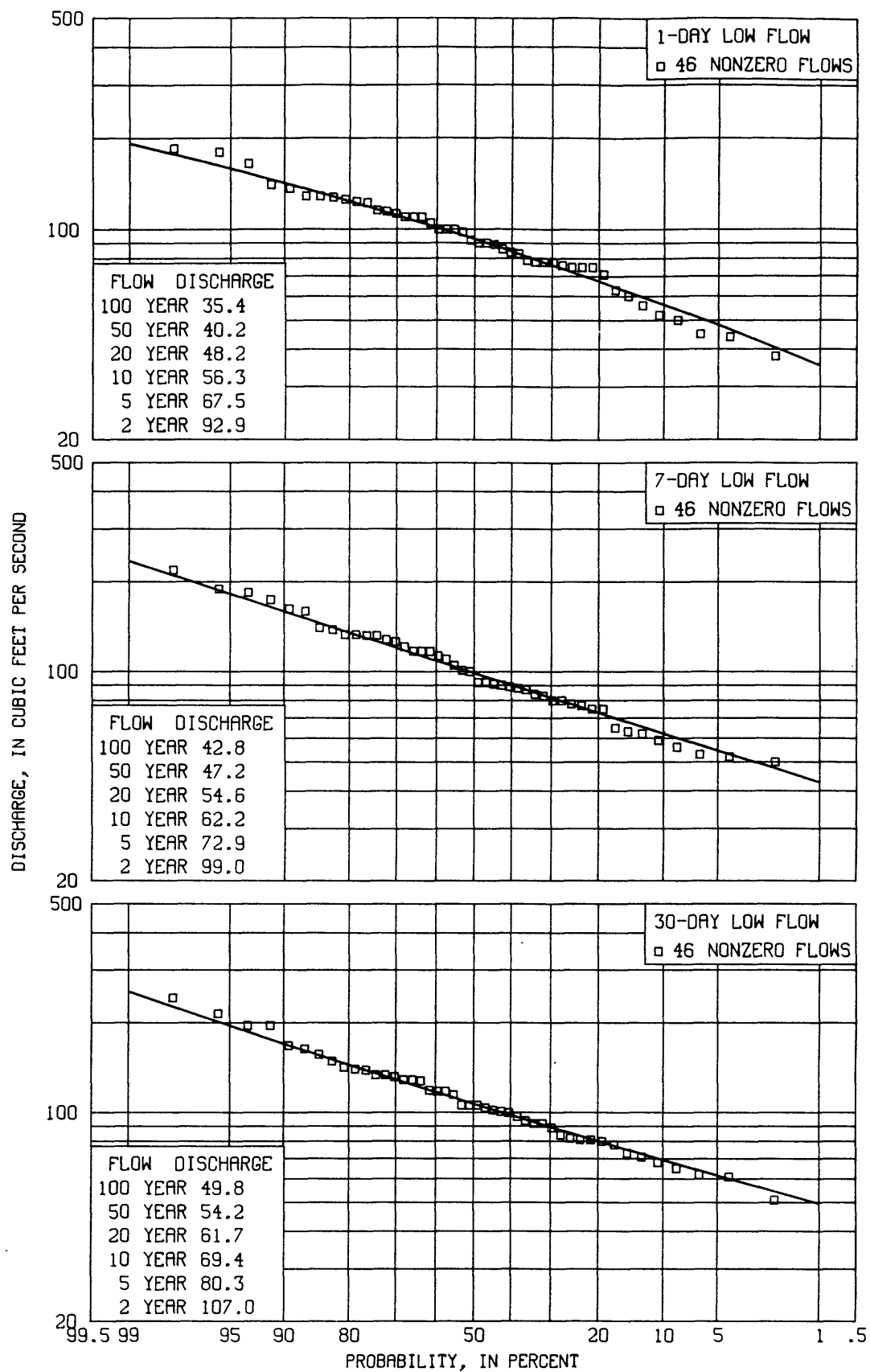
STATION 5378500 MISSISSIPPI RIVER AT WINONA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



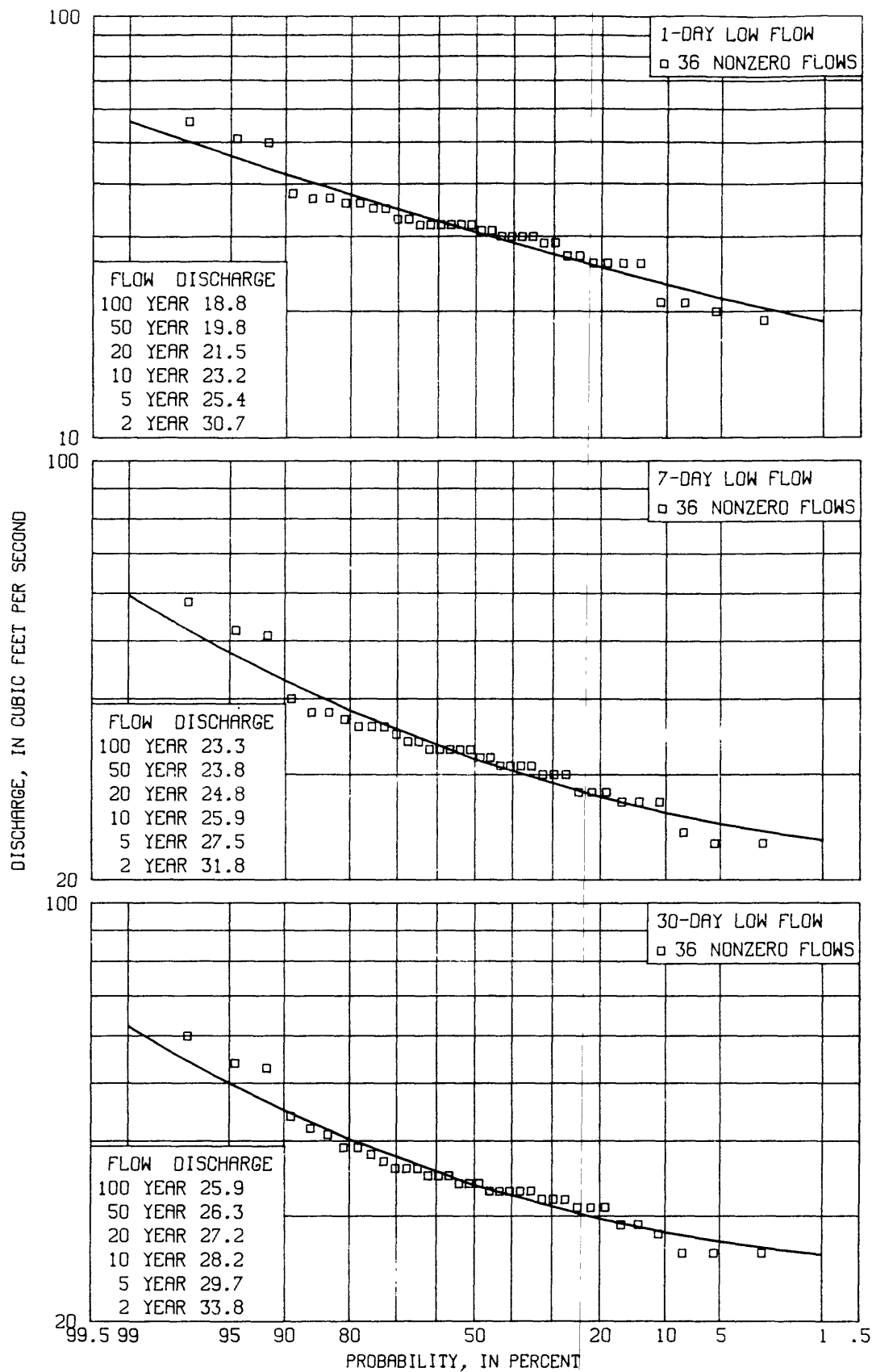
STATION 5379000 GILMORE CREEK AT WINONA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



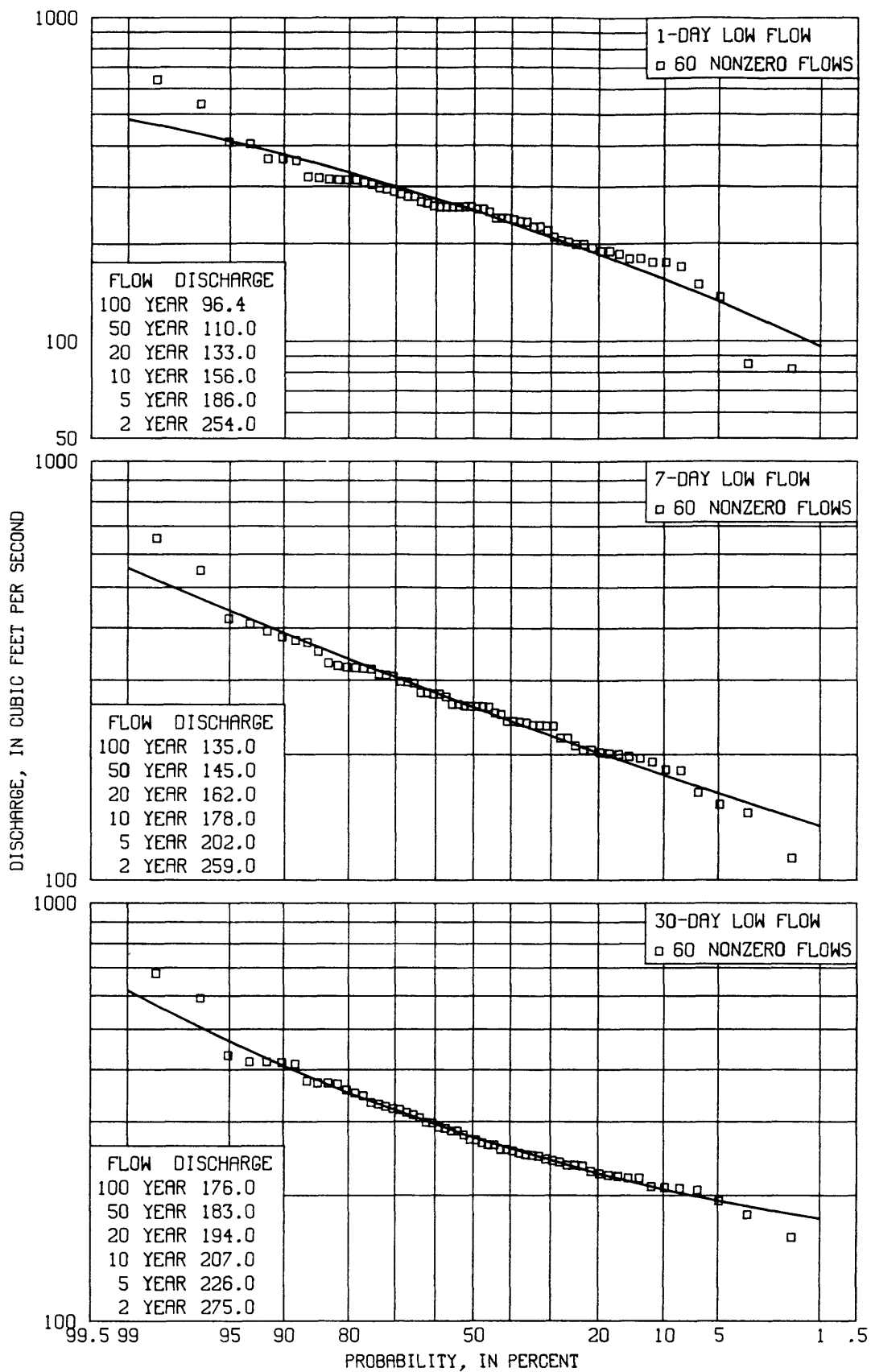
STATION 5383500 MISSISSIPPI RIVER AT LA CROSSE, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



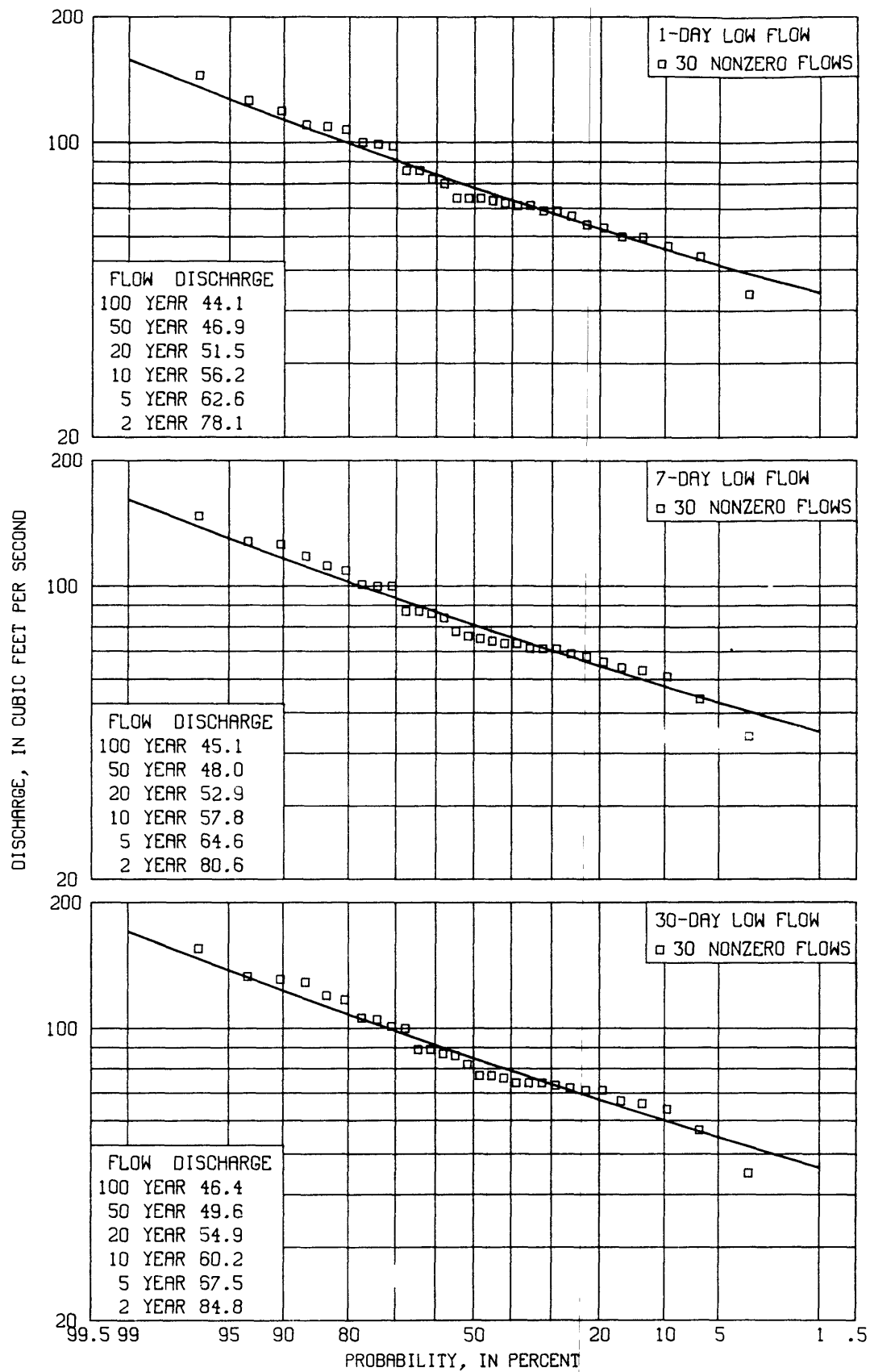
STATION 5384000 ROOT RIVER NEAR LANESBORO
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



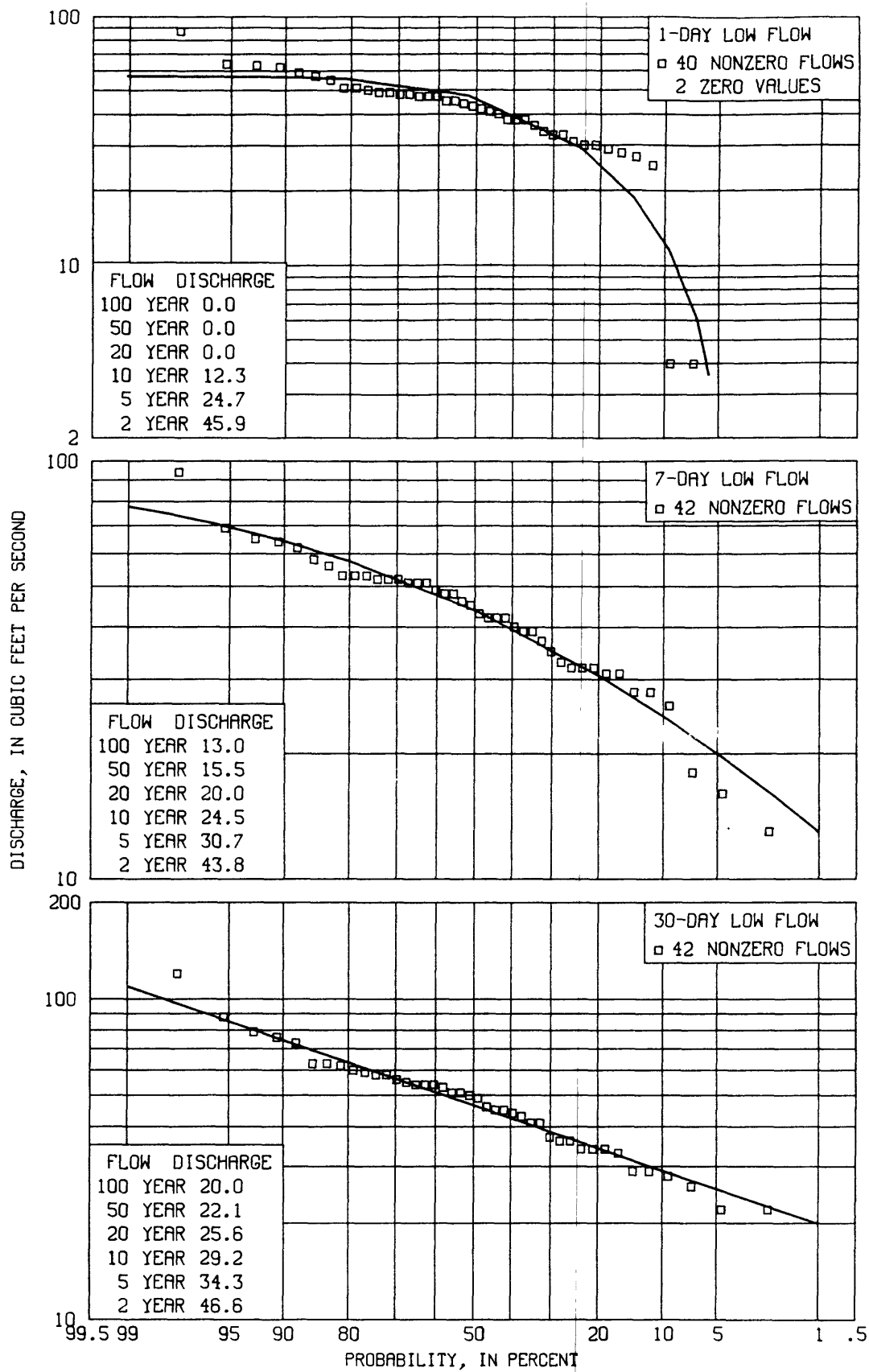
STATION 5384500 RUSH CREEK NEAR RUSHFORD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 12-month period ending March 31



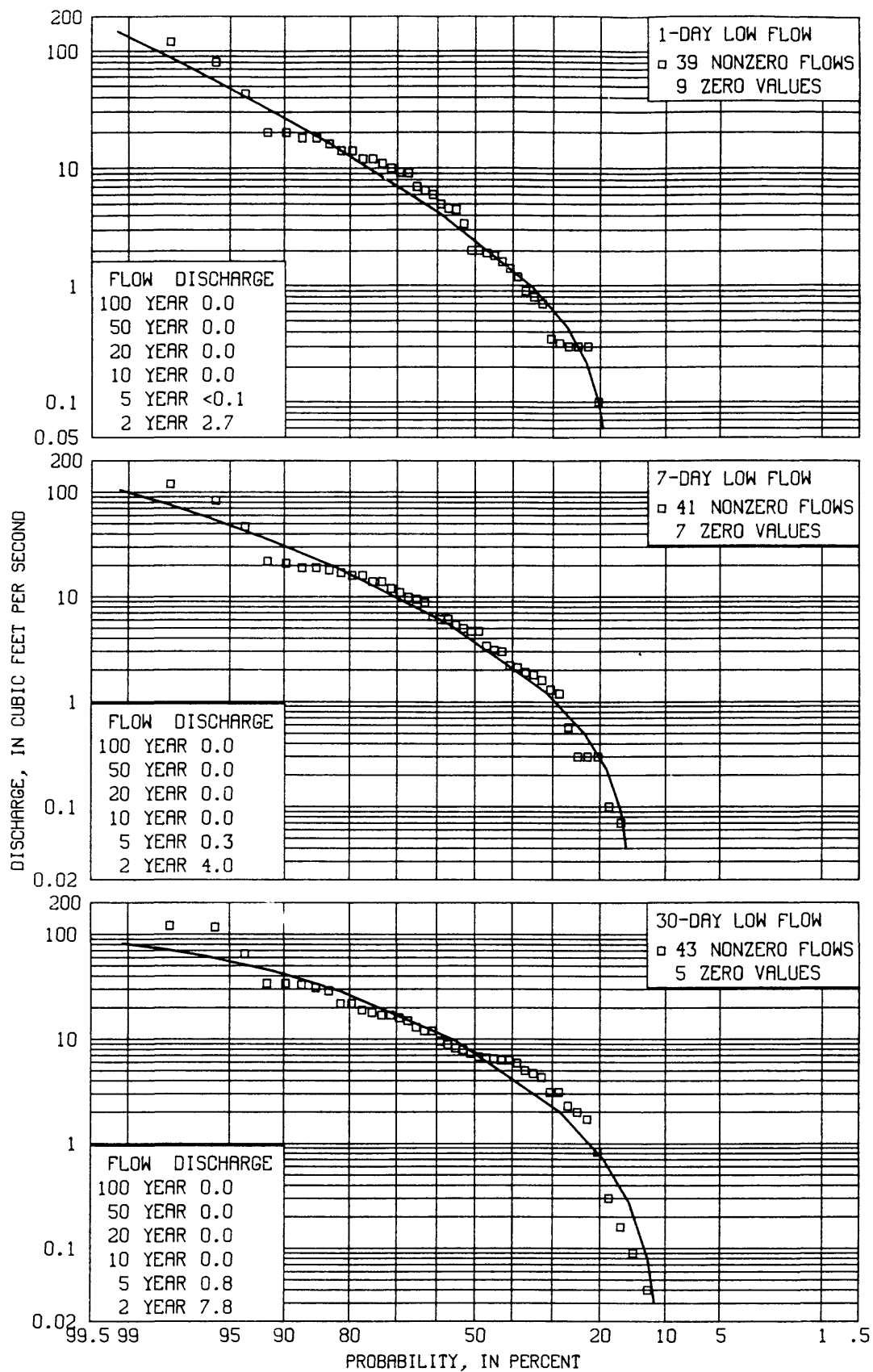
STATION 5385000 ROOT RIVER NEAR HOUSTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



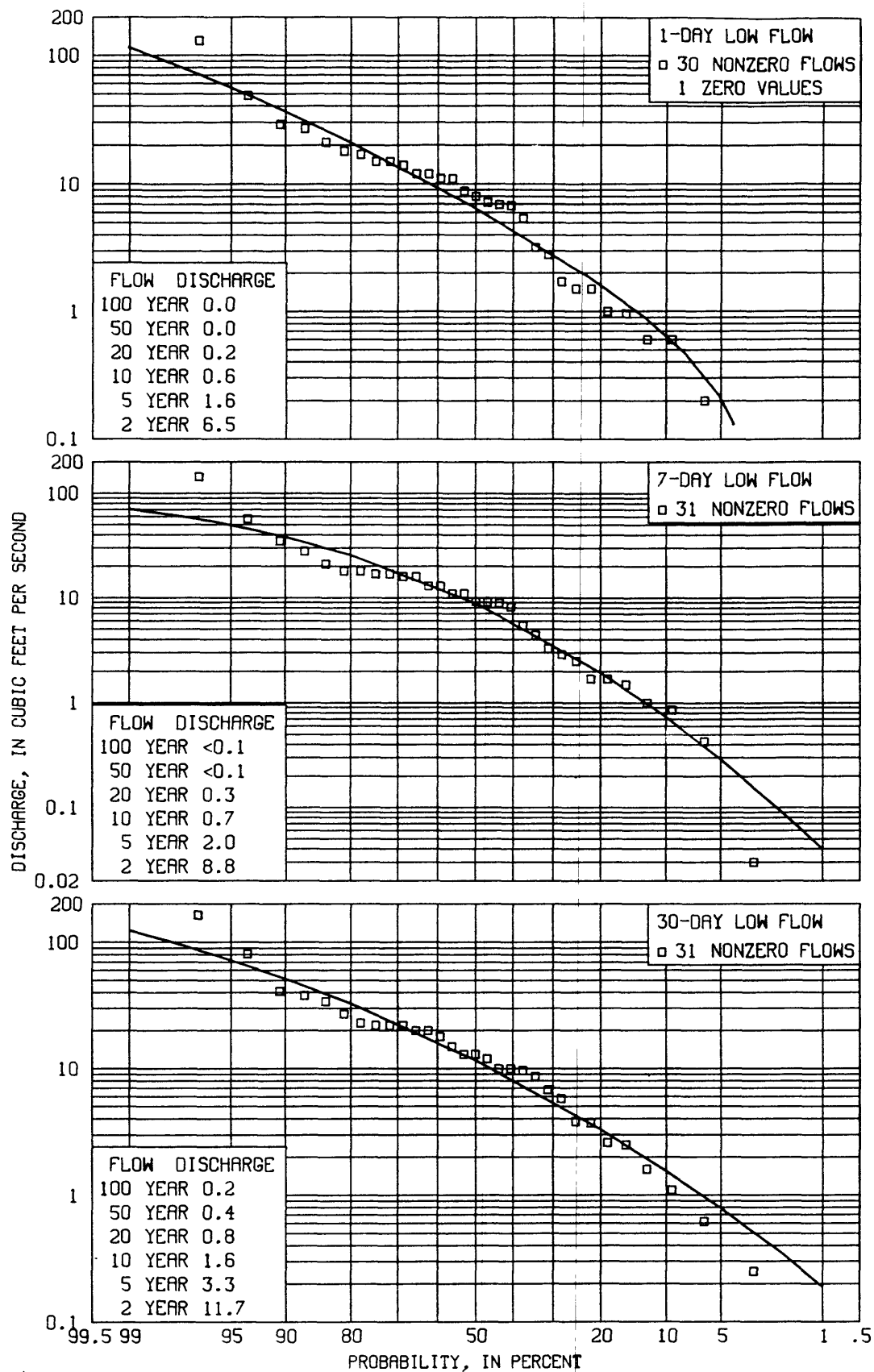
STATION 538500 SOUTH FORK ROOT RIVER NEAR HOUSTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



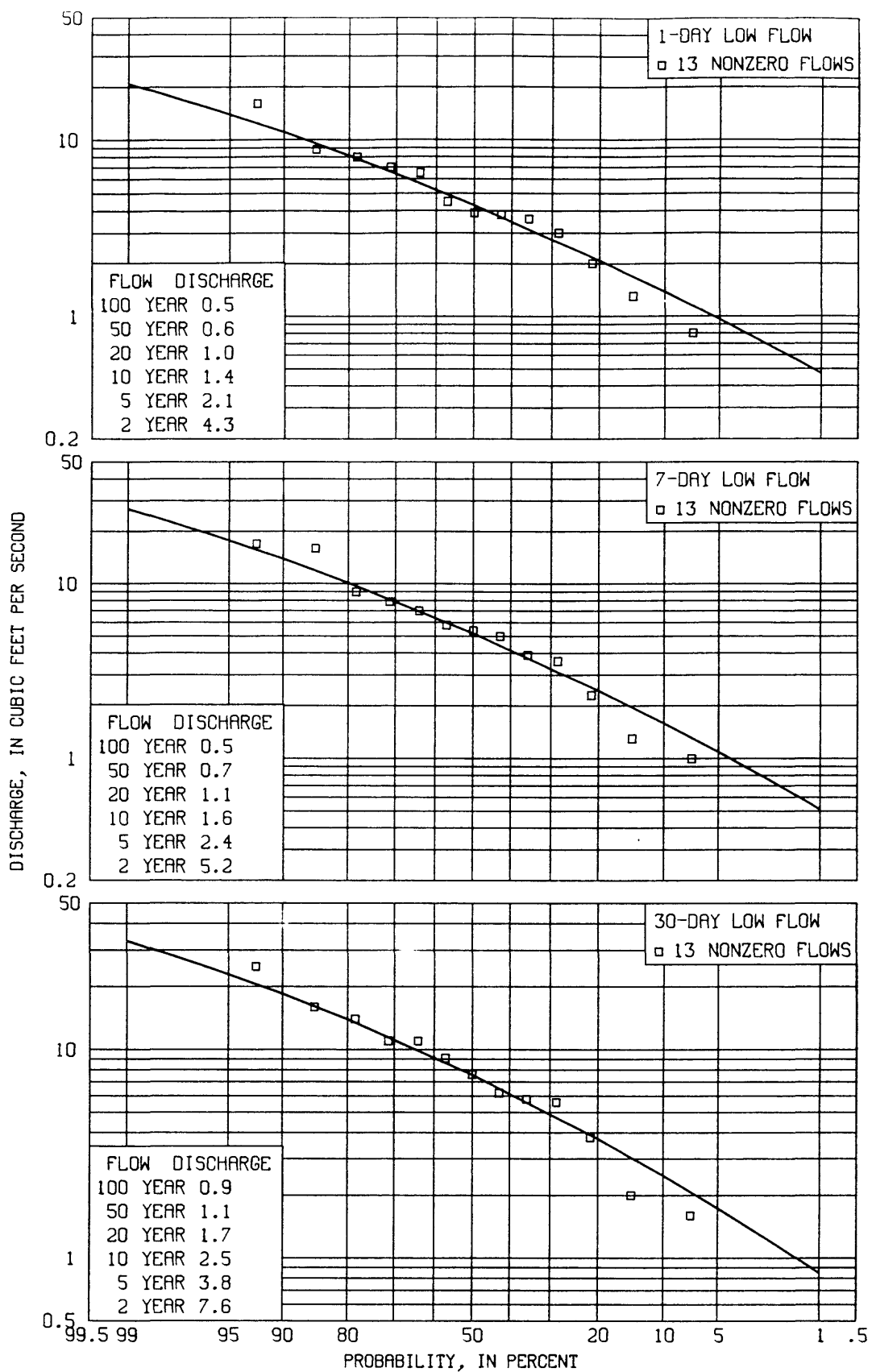
STATION 5457000 CEDAR RIVER NEAR AUSTIN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



STATION 5476000 DES MOINES RIVER AT JACKSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



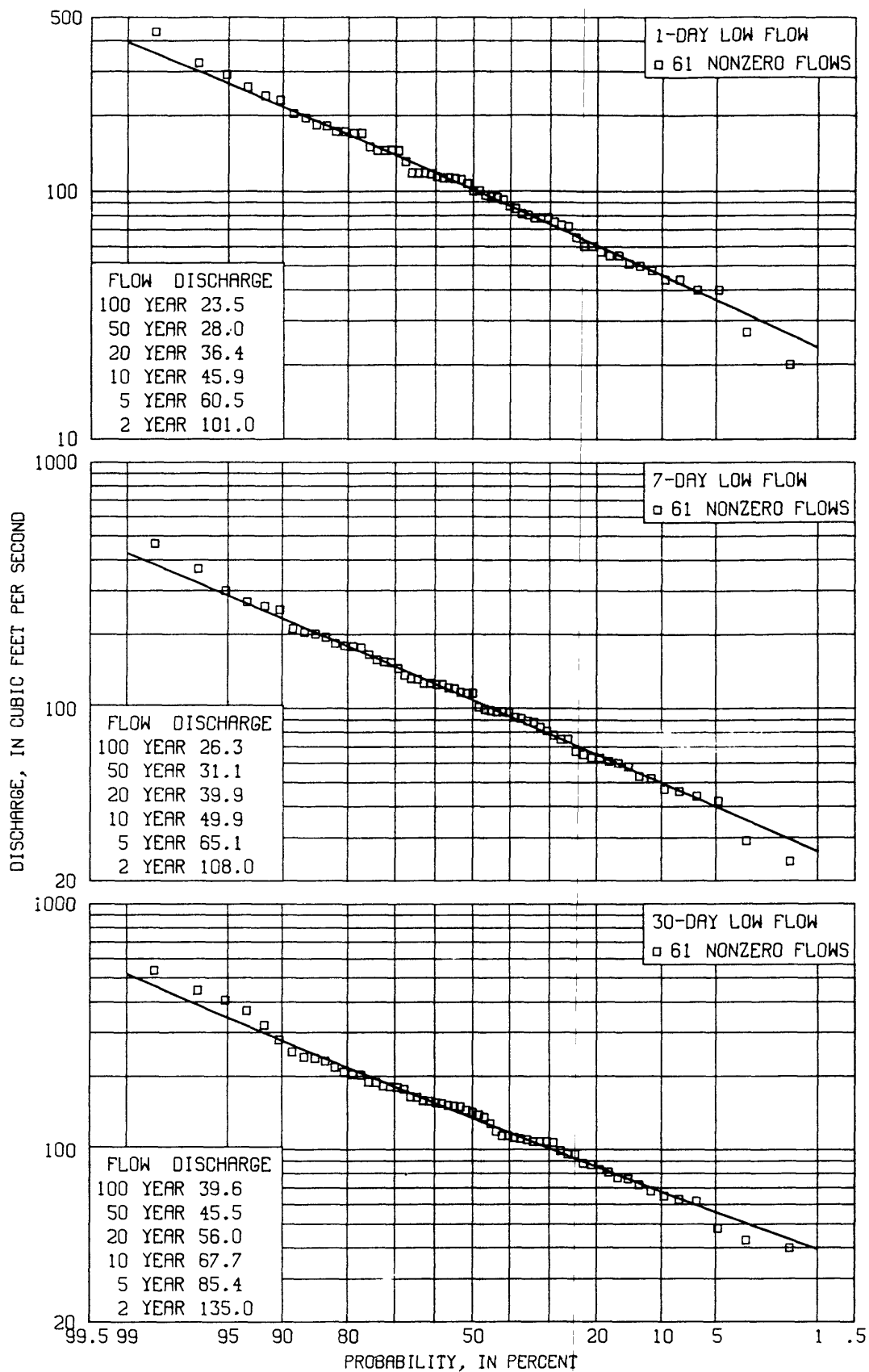
STATION 5476500 DES MOINES RIVER AT ESTHERVILLE, IOWA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31



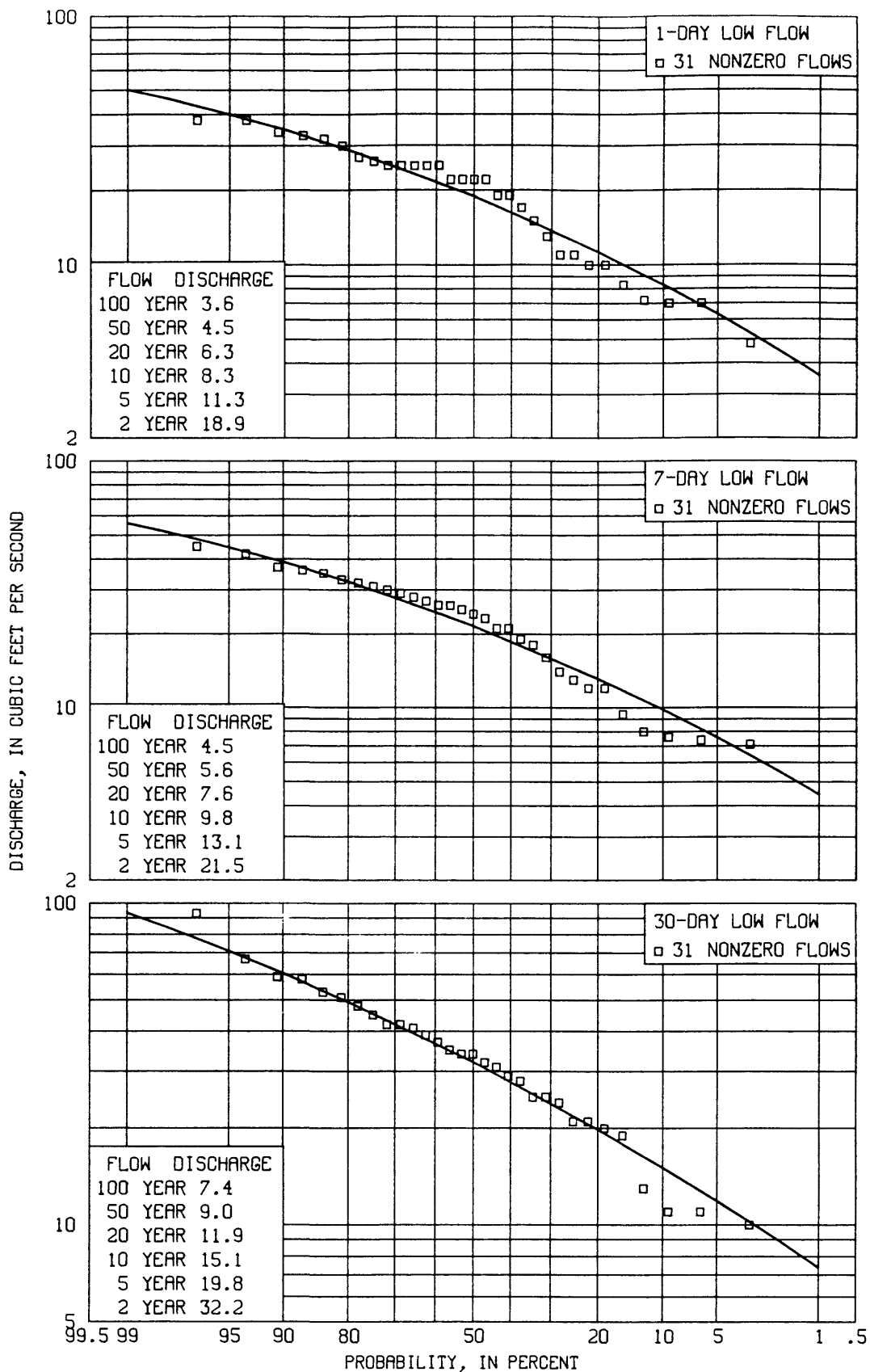
STATION 6483270 ROCK RIVER AT ROCK RAPIDS, IOWA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 12-month period ending March 31

APPENDIX B

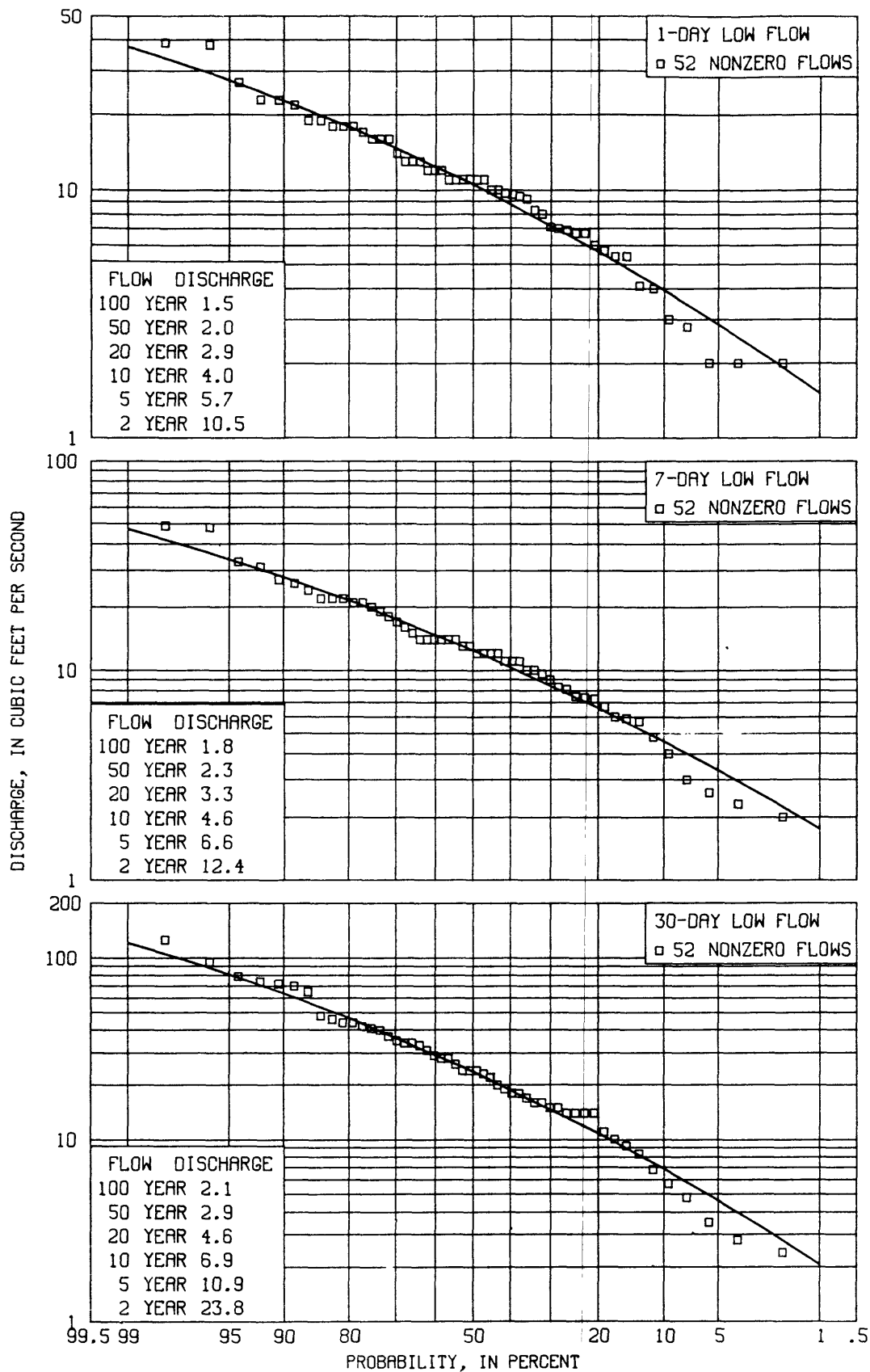
Seasonal-Probability Plots



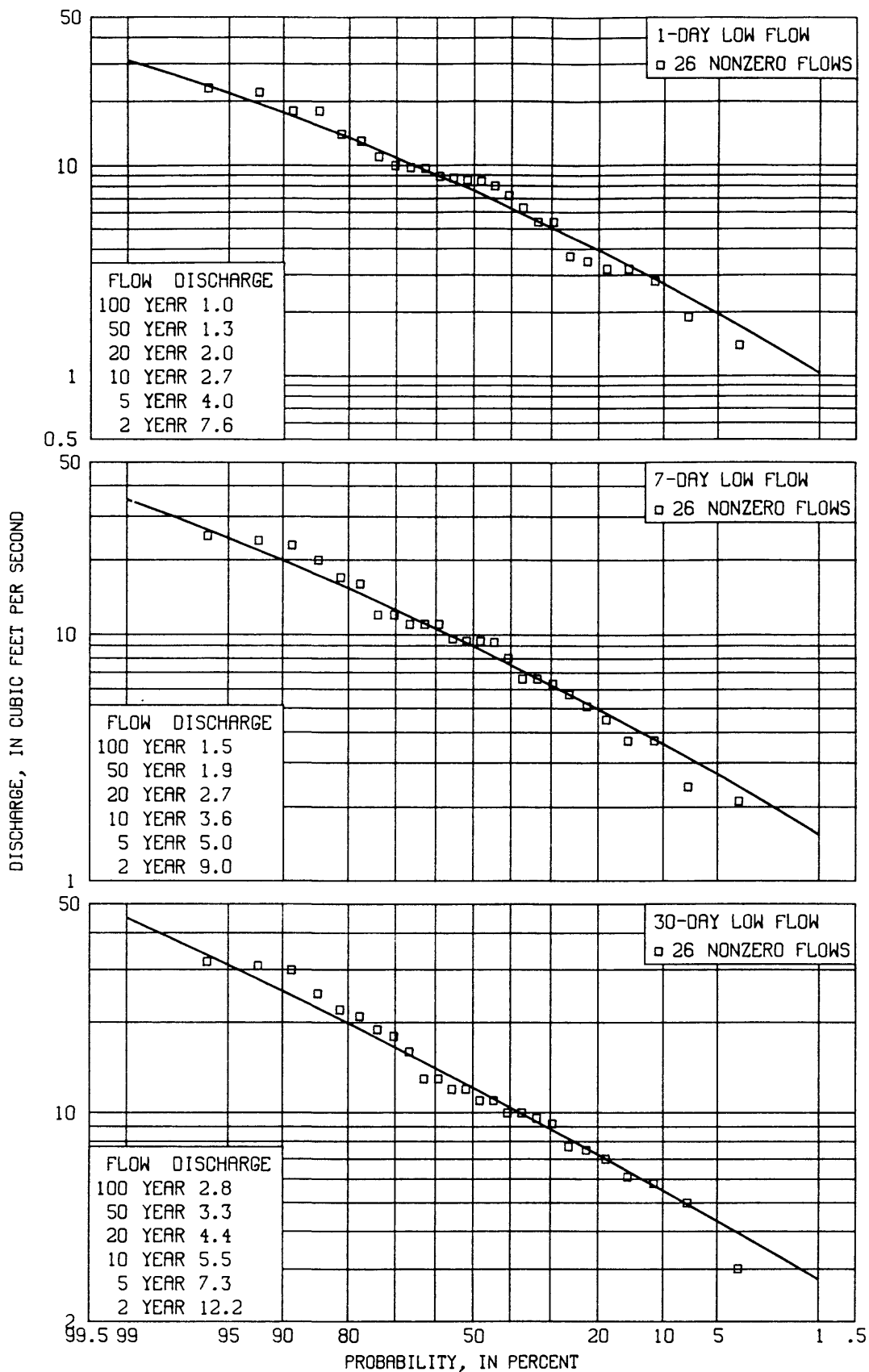
STATION 4010500 PIGEON RIVER AT MIDDLE FALLS NEAR GRAND PORTAGE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



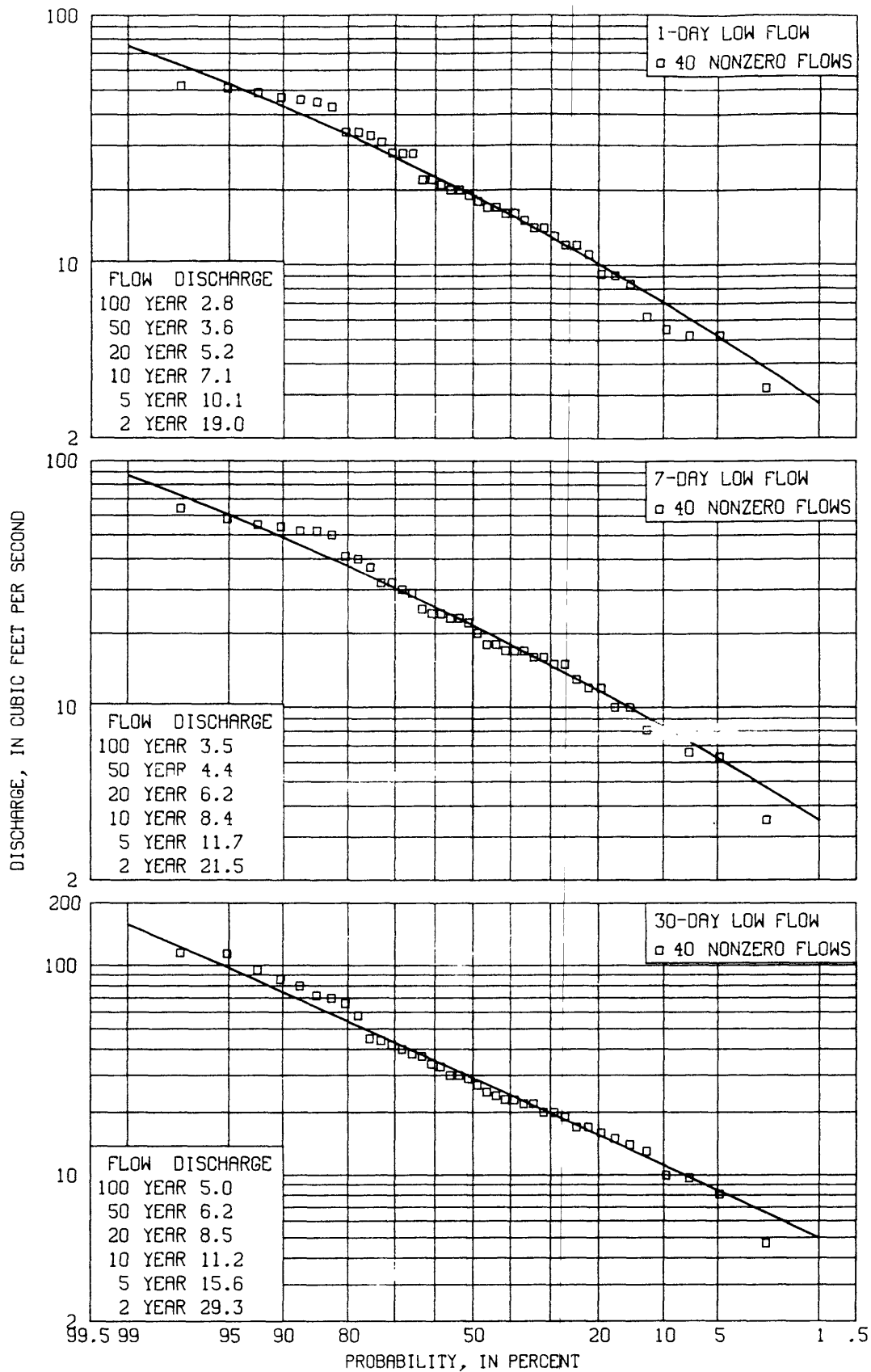
STATION 4012500 POPLAR RIVER AT LUTSEN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



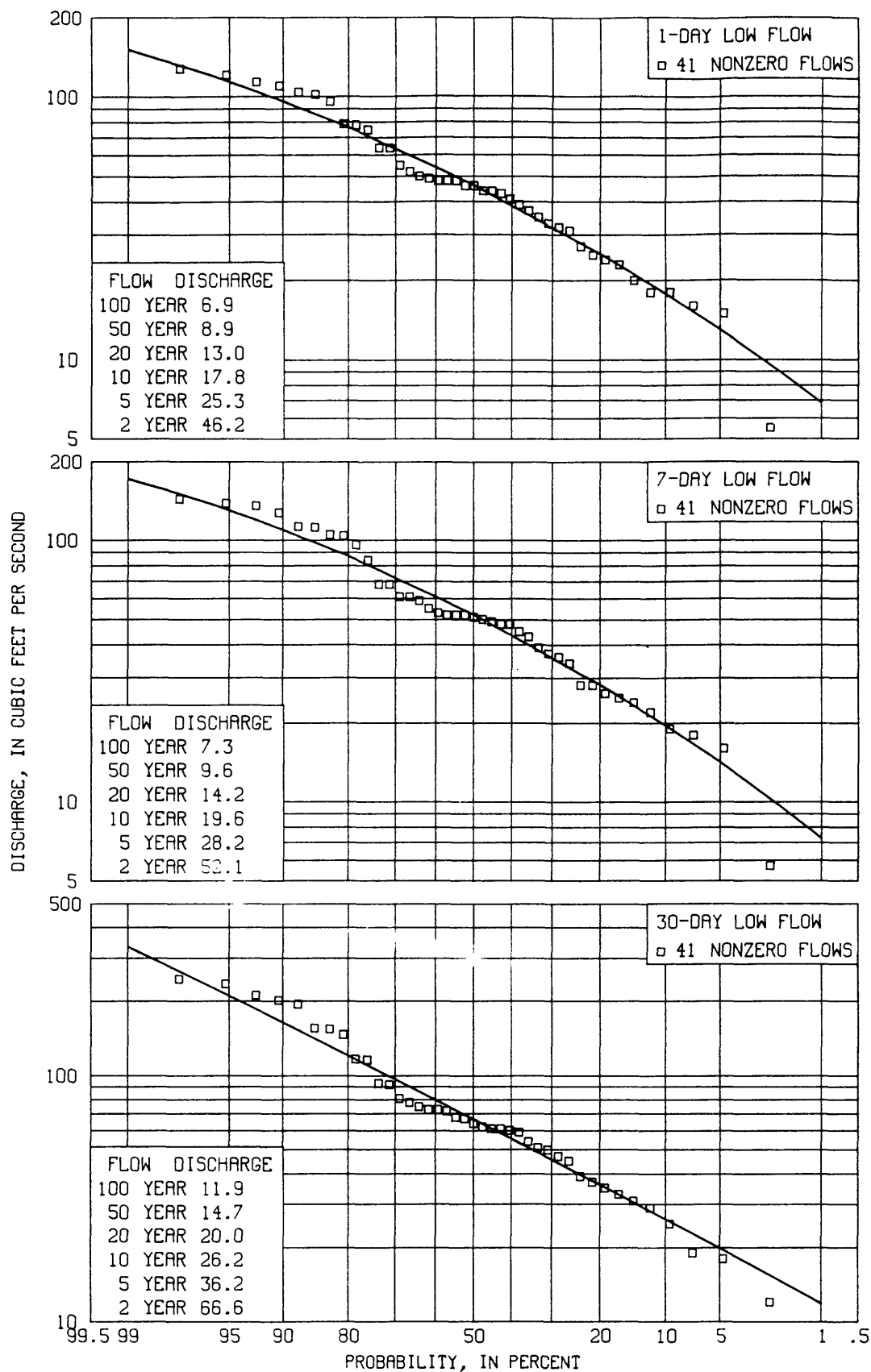
STATION 4014500 BAPTISM RIVER NEAR BEAVER BAY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



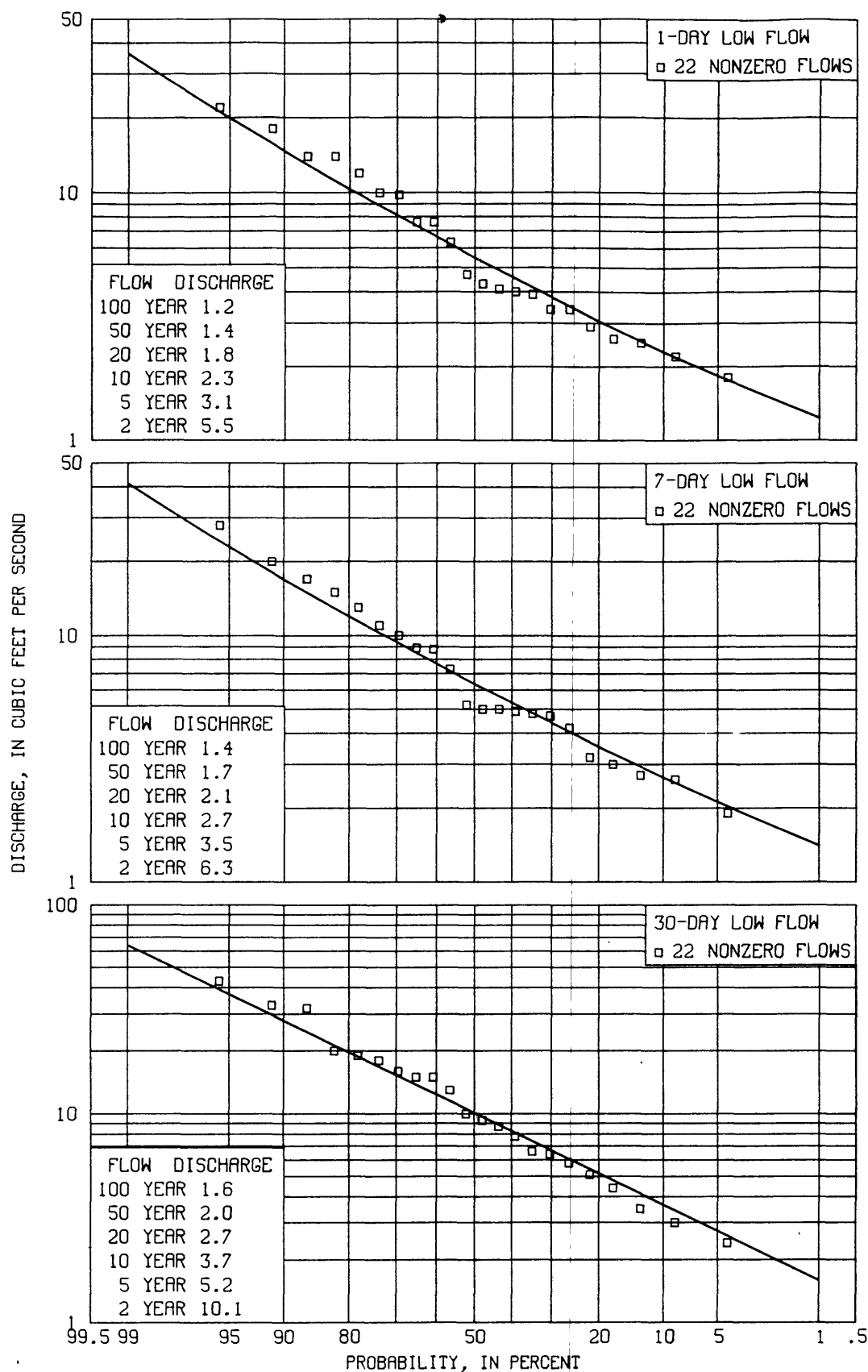
STATION 4015500 SECOND CREEK NEAR AURORA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



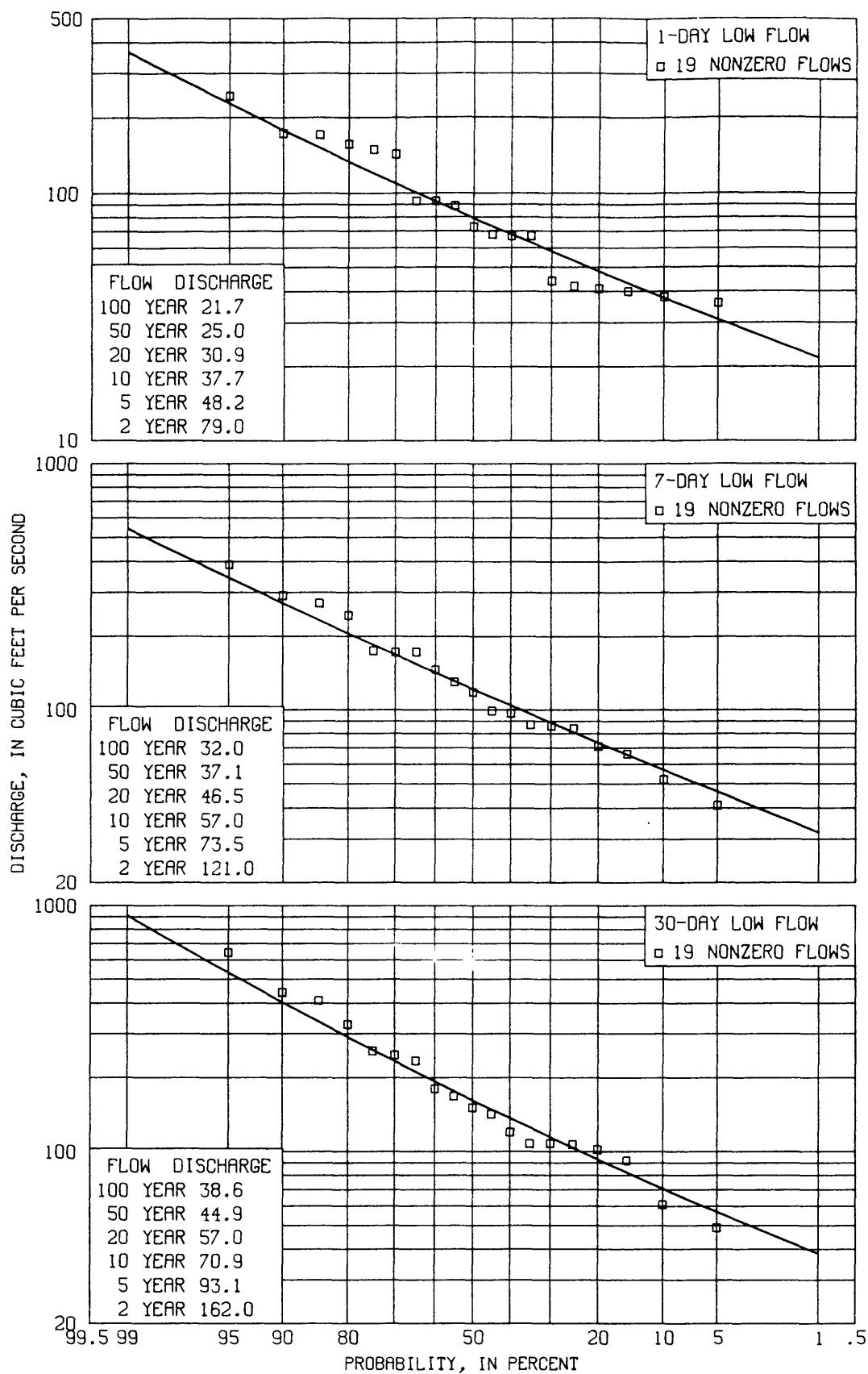
STATION 4016000 PARTRIDGE RIVER NEAR AURORA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



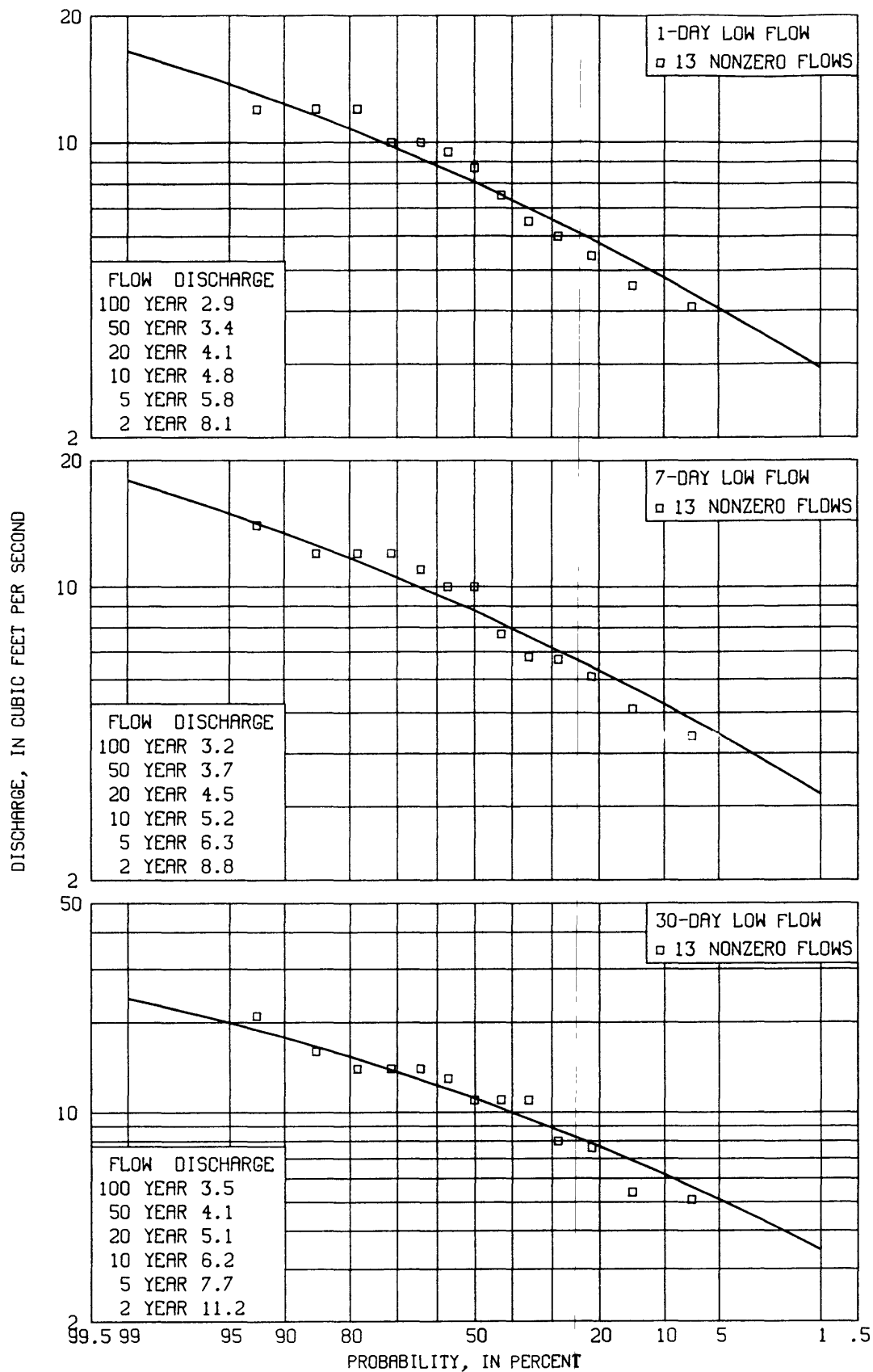
STATION 4016500 ST. LOUIS RIVER NEAR AURORA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



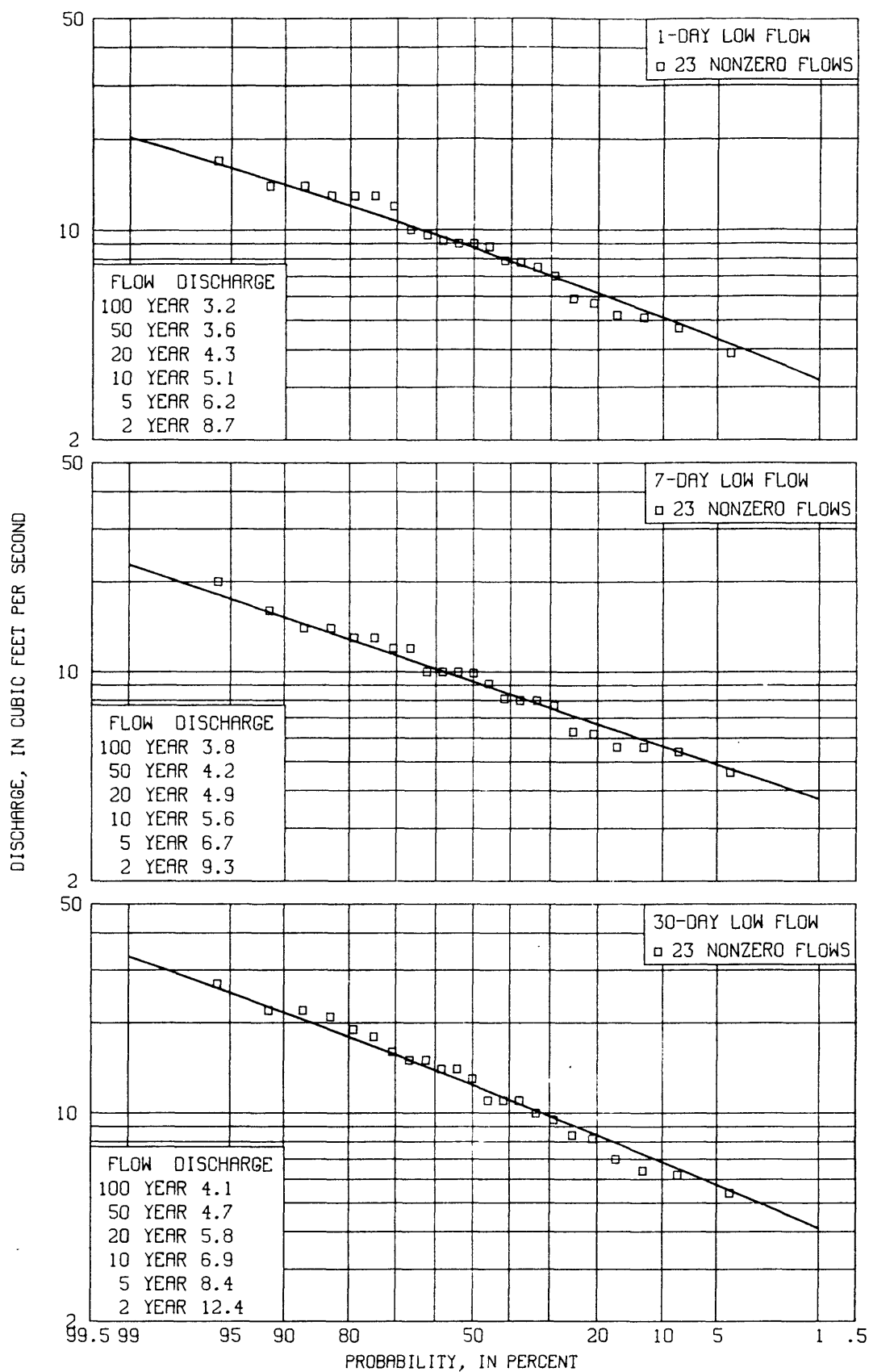
STATION 4017000 EMBARRASS RIVER AT EMBARRASS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



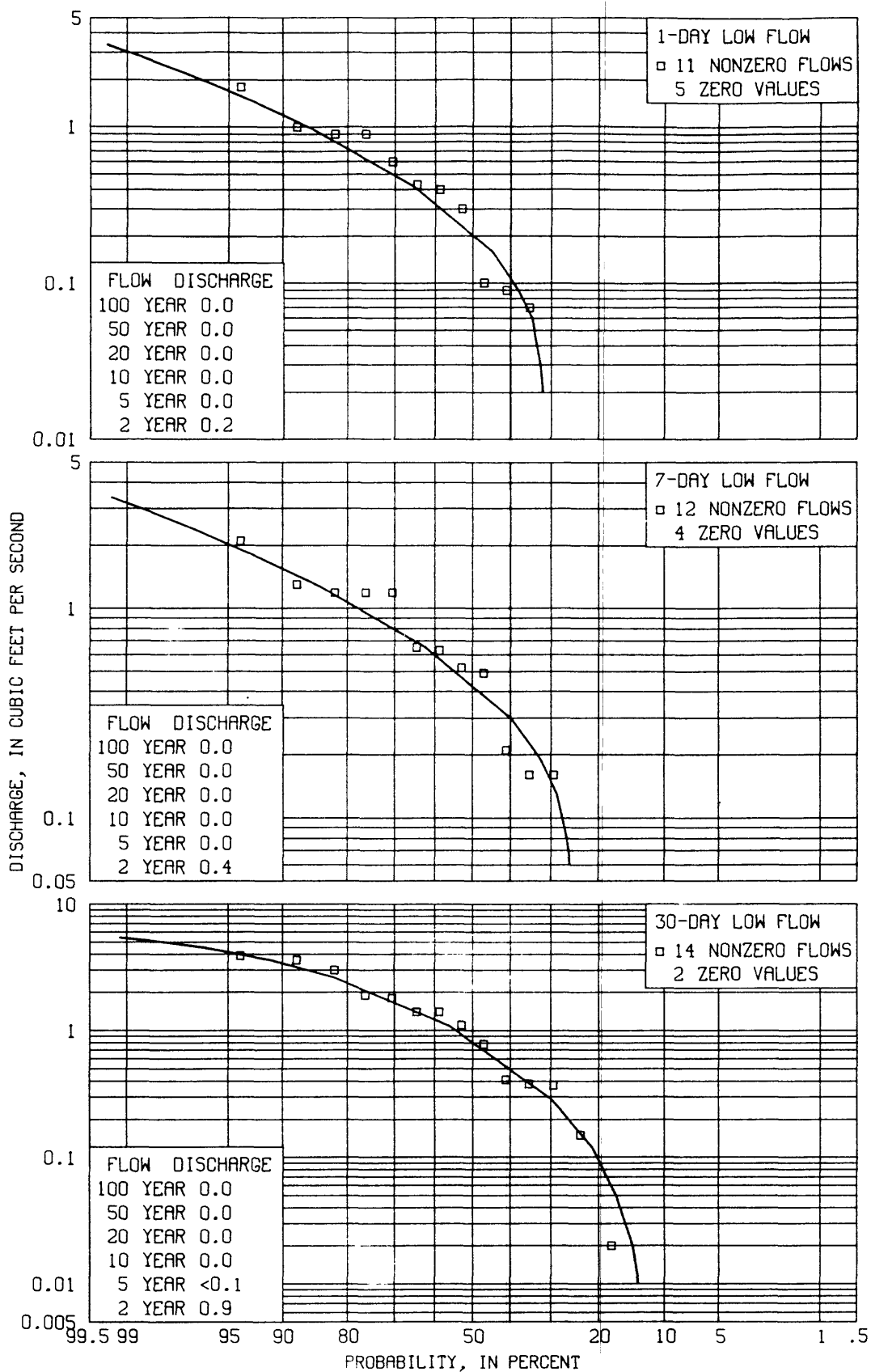
STATION 4018750 ST. LOUIS RIVER AT FORBES
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



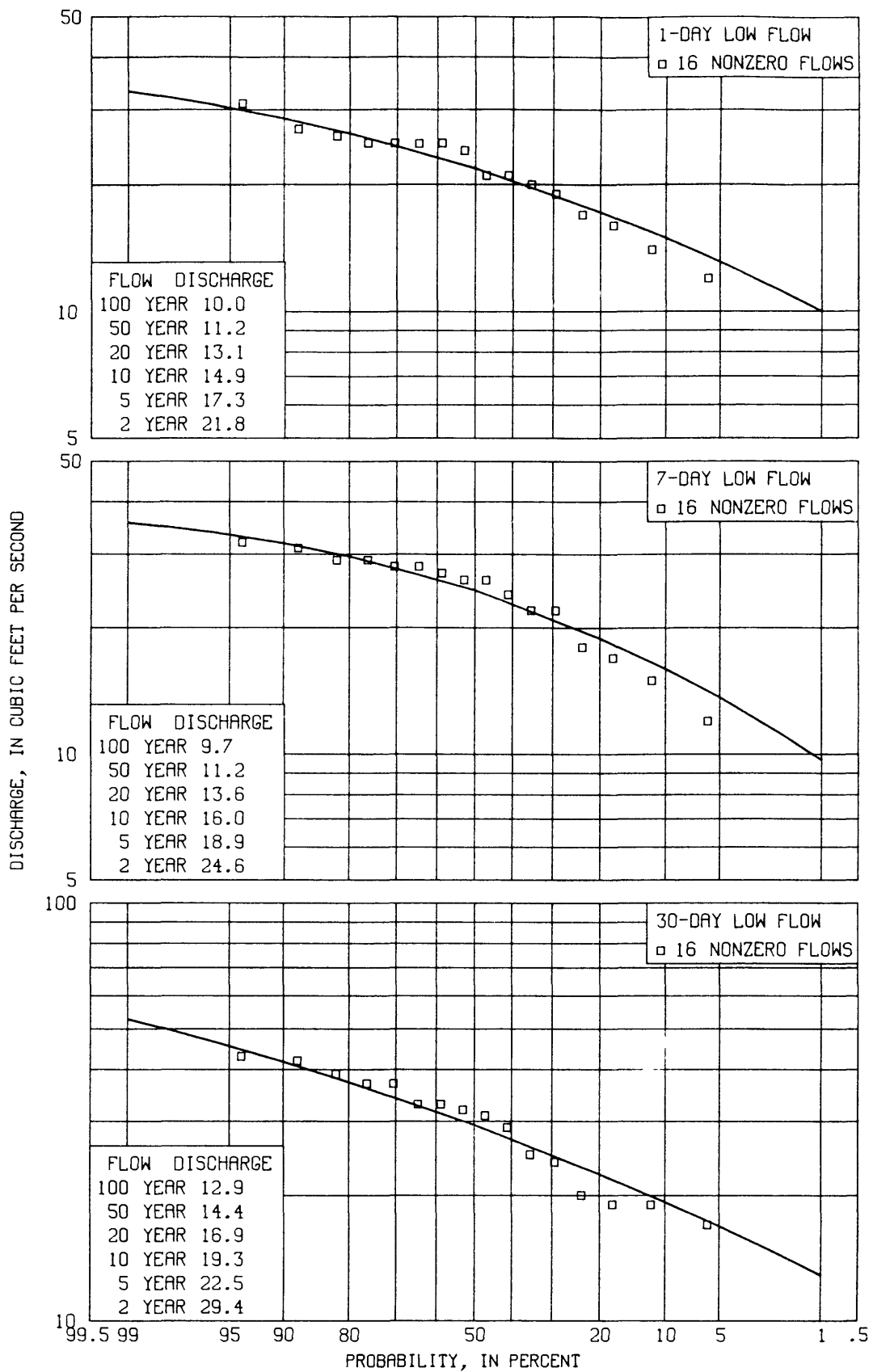
STATION 4018900 EAST TWO RIVER NEAR IRON JUNCTION
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



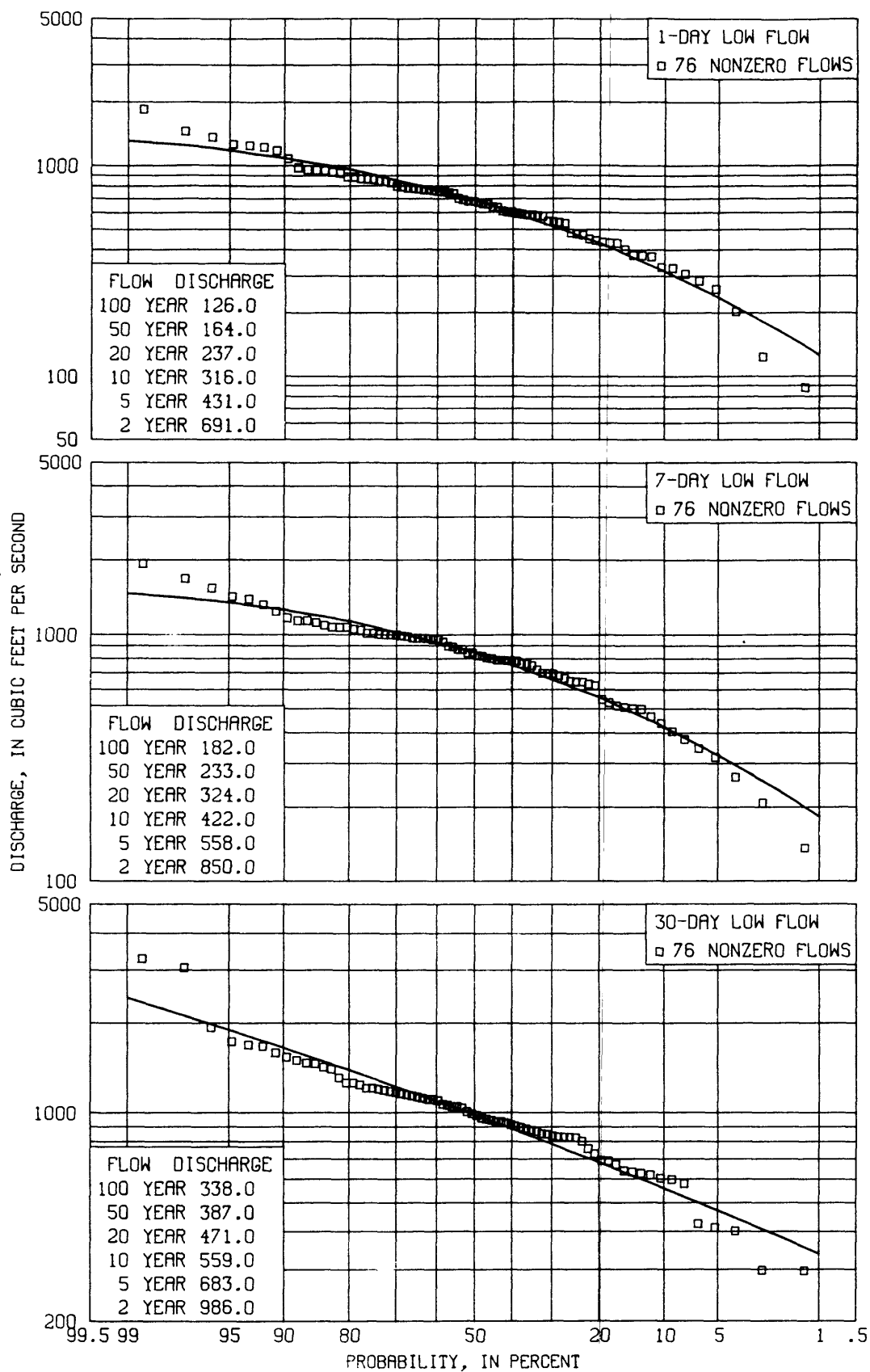
STATION 4019000 WEST TWO RIVER NEAR IRON JUNCTION
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



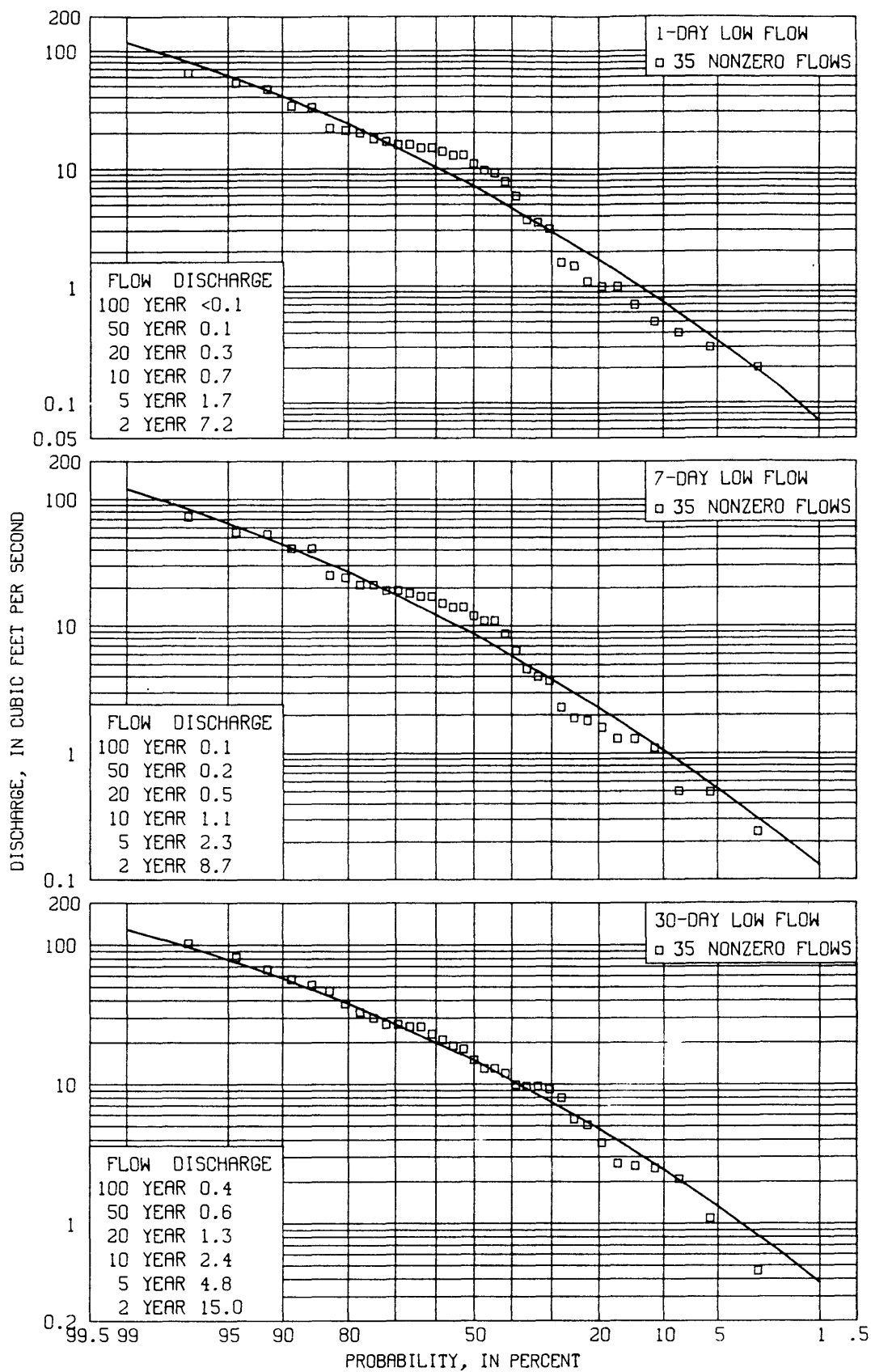
STATION 4019300 WEST SWAN RIVER NEAR SILICA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



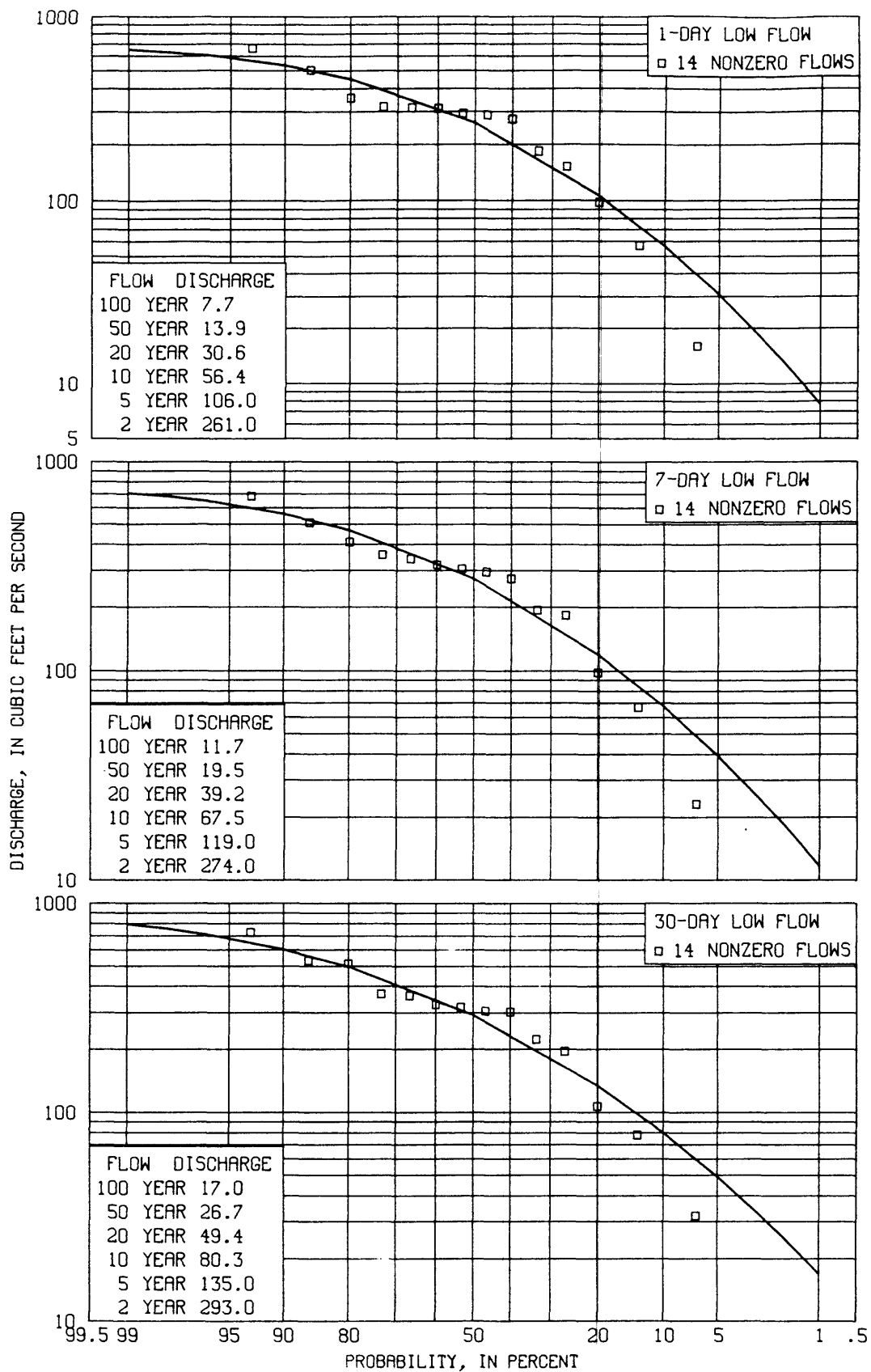
STATION 4019500 EAST SWAN RIVER NEAR TOIVOLA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



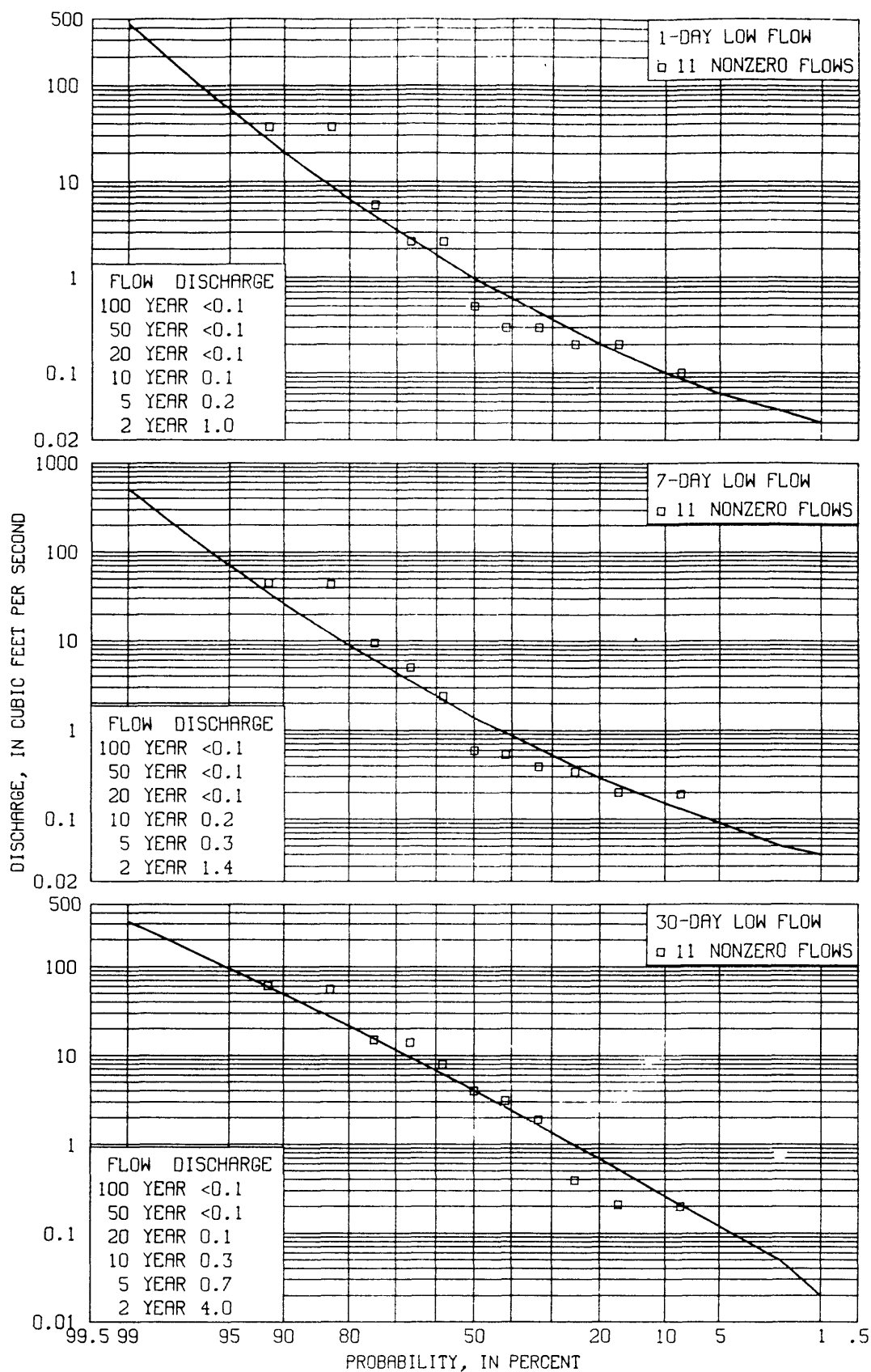
STATION 4024000 ST. LOUIS RIVER AT SCANLON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



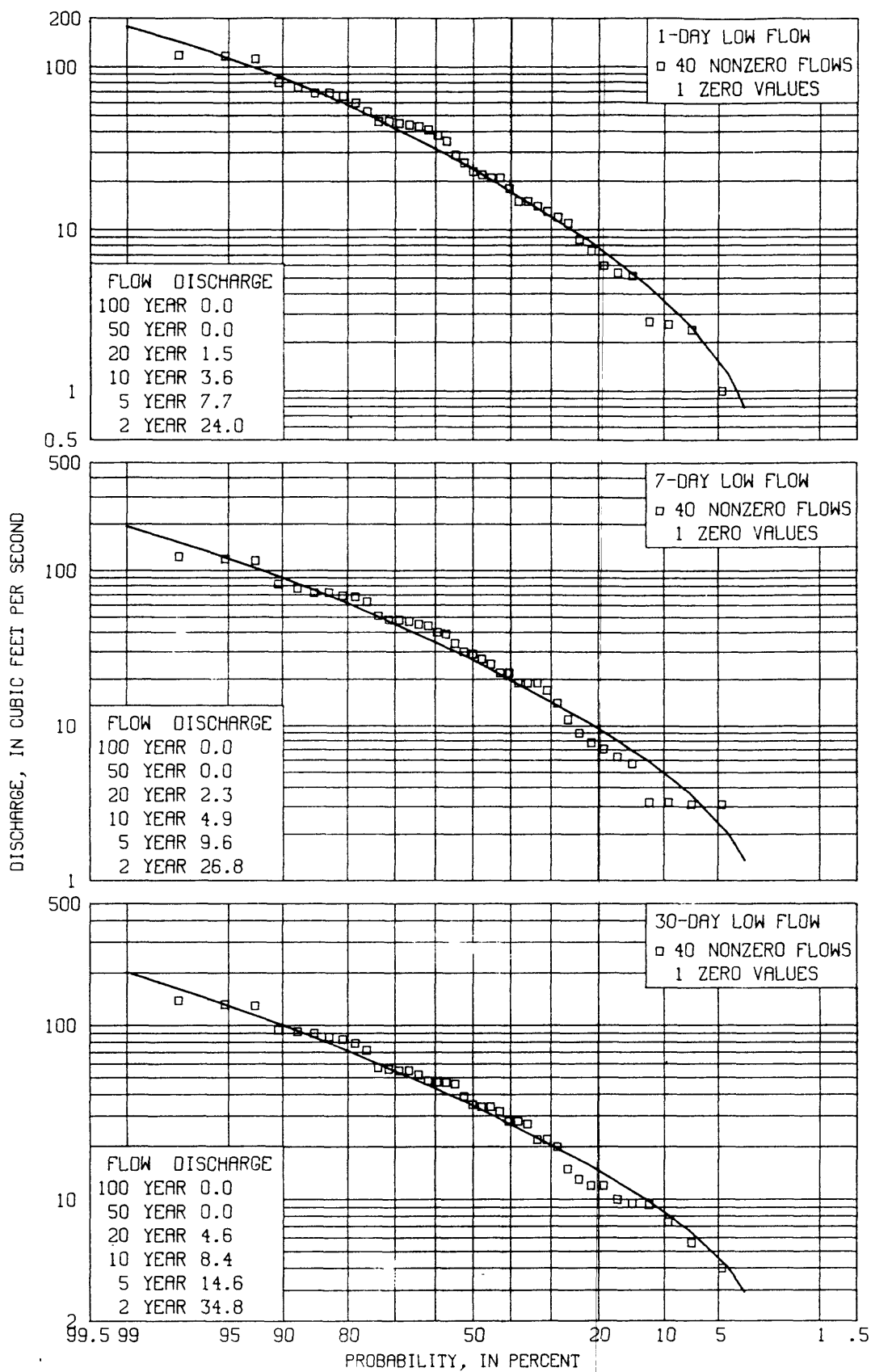
STATION 5030000 OTTER TAIL RIVER NEAR DETROIT LAKES
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



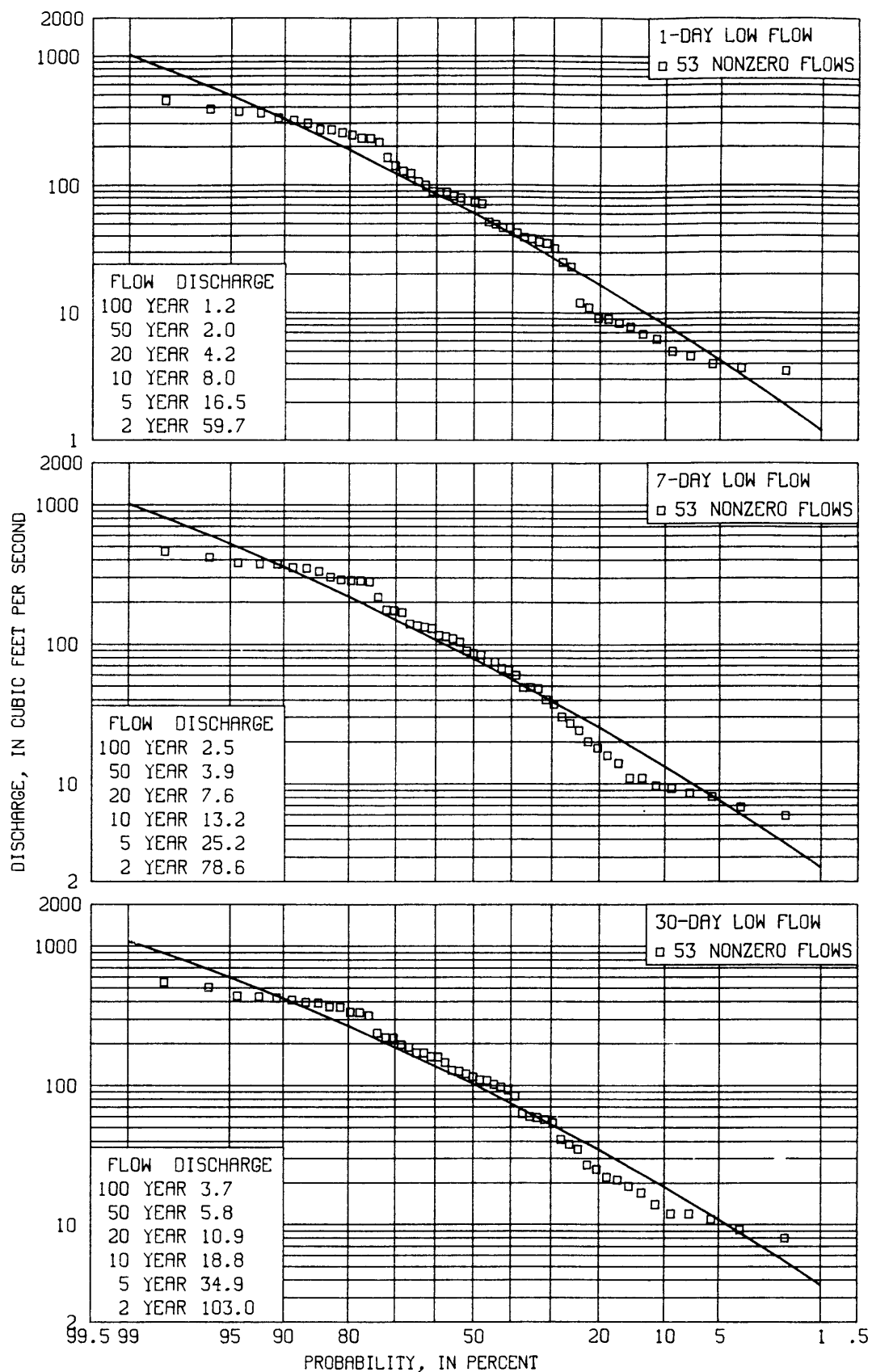
STATION 5030500 OTTER TAIL R AT GERMAN CHURCH NEAR FERGUS FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



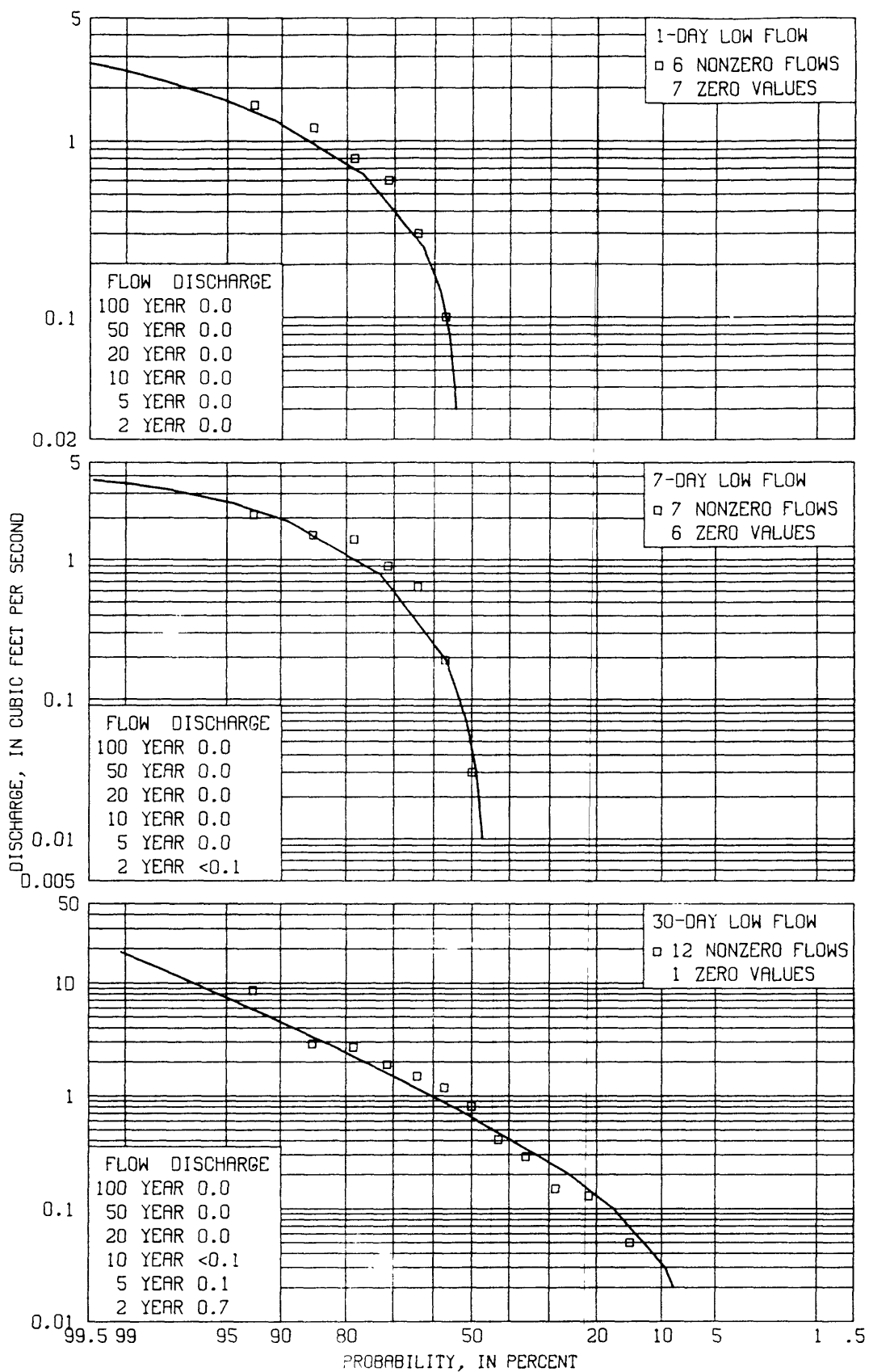
STATION 5040000 FELICAN RIVER NEAR DETROIT LAKES
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



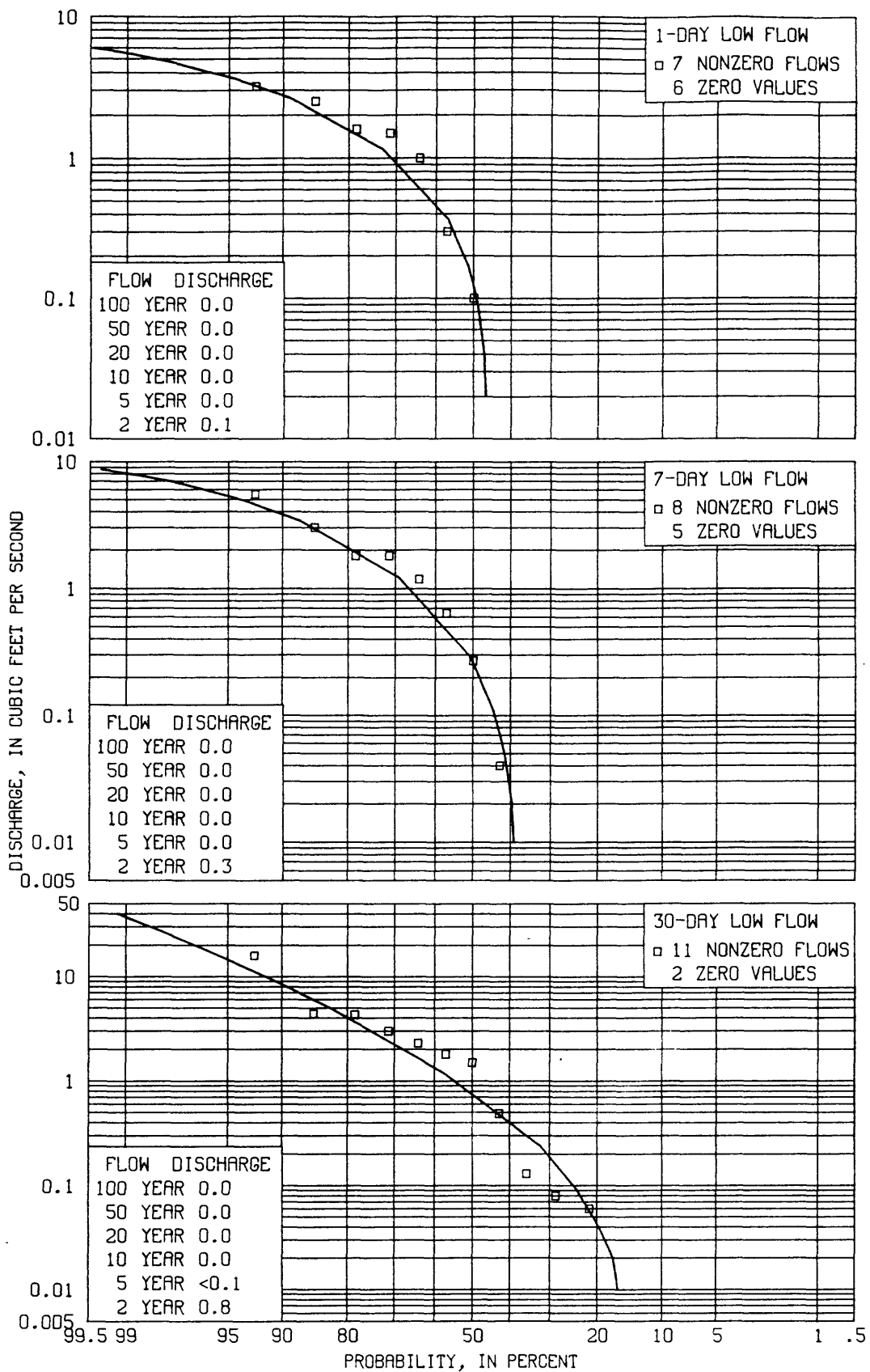
STATION 5040500 PELICAN RIVER NEAR FERGUS FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



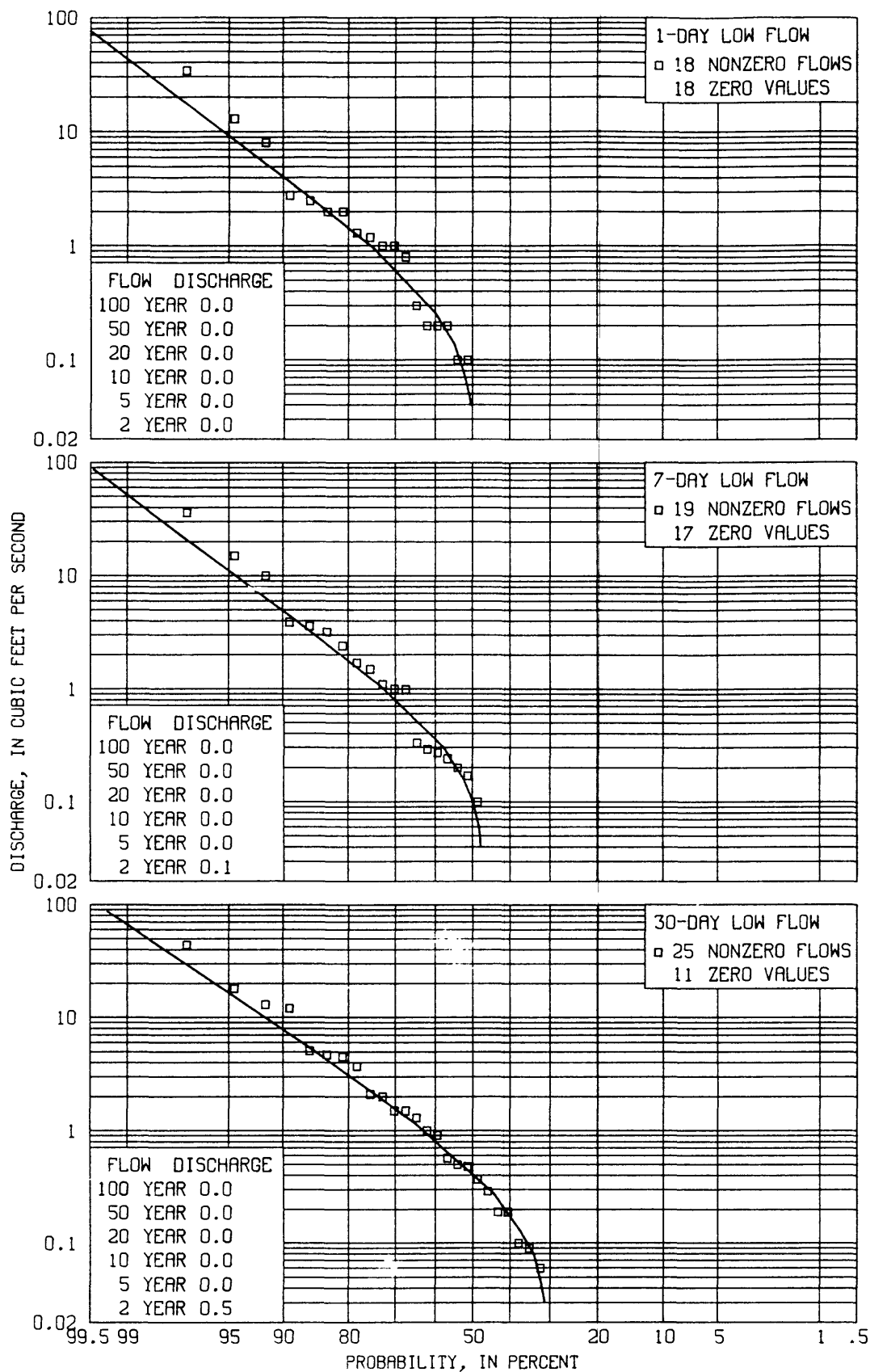
STATION 5046000 OTTER TAIL RIVER BELOW ORWELL DAM NR FERGUS FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



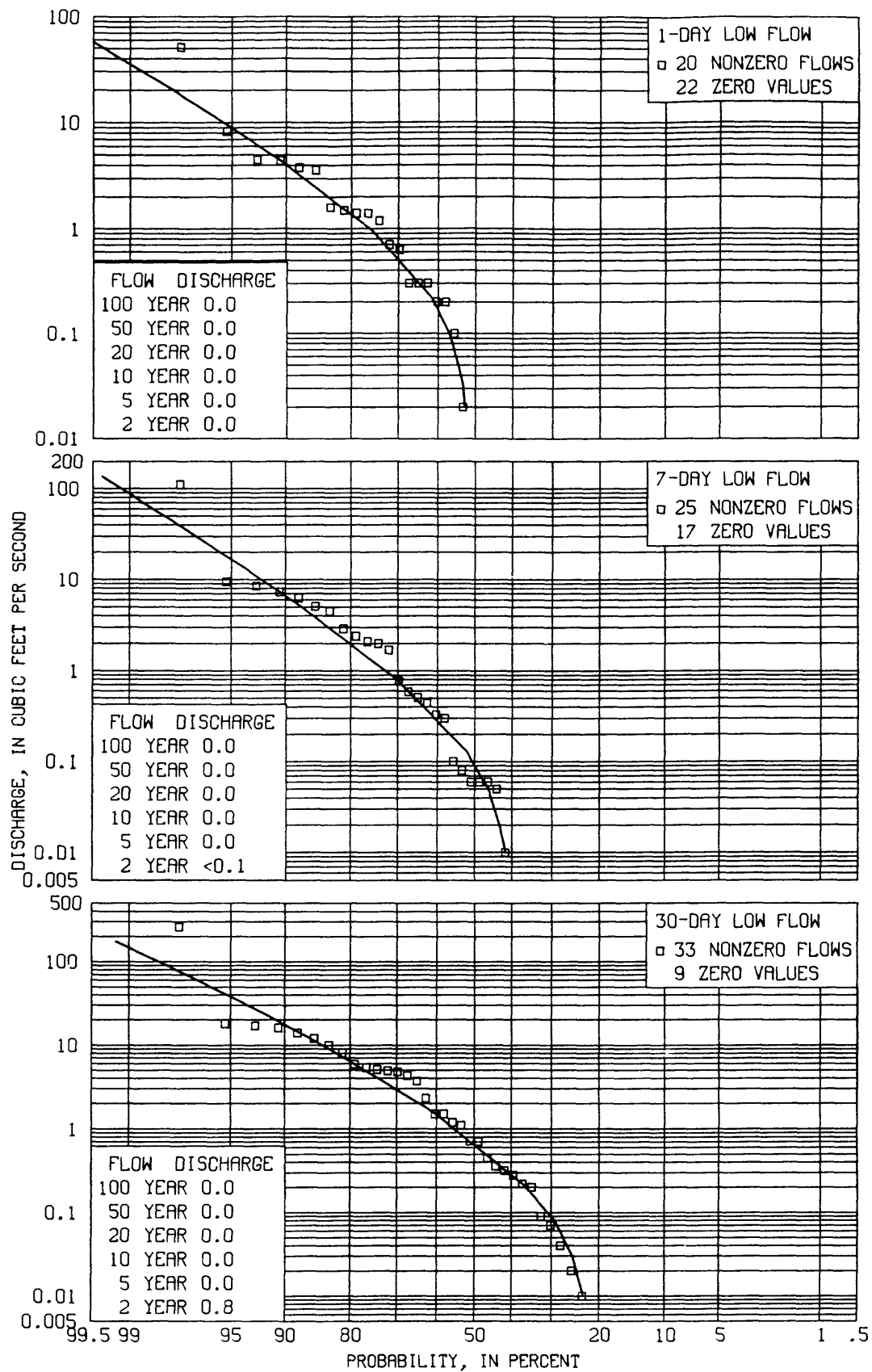
STATION 5047500 MUSTINKA DITCH ABOVE W BR MUSTINKA R NR CHARLESVILLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



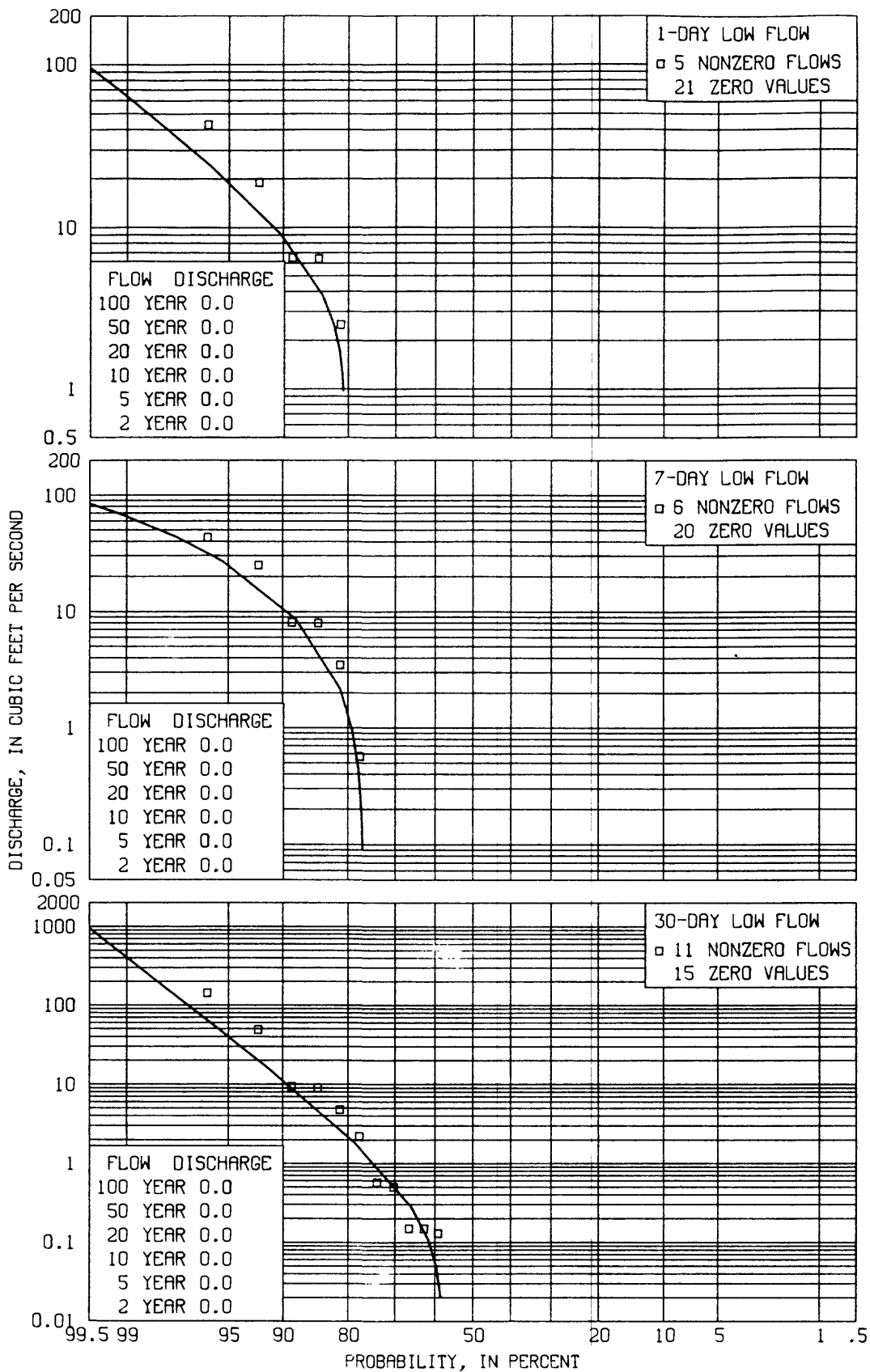
STATION 5048500 W BR MUSTINKA R BELOW MUSTINKA DITCH NR CHARLESVILLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



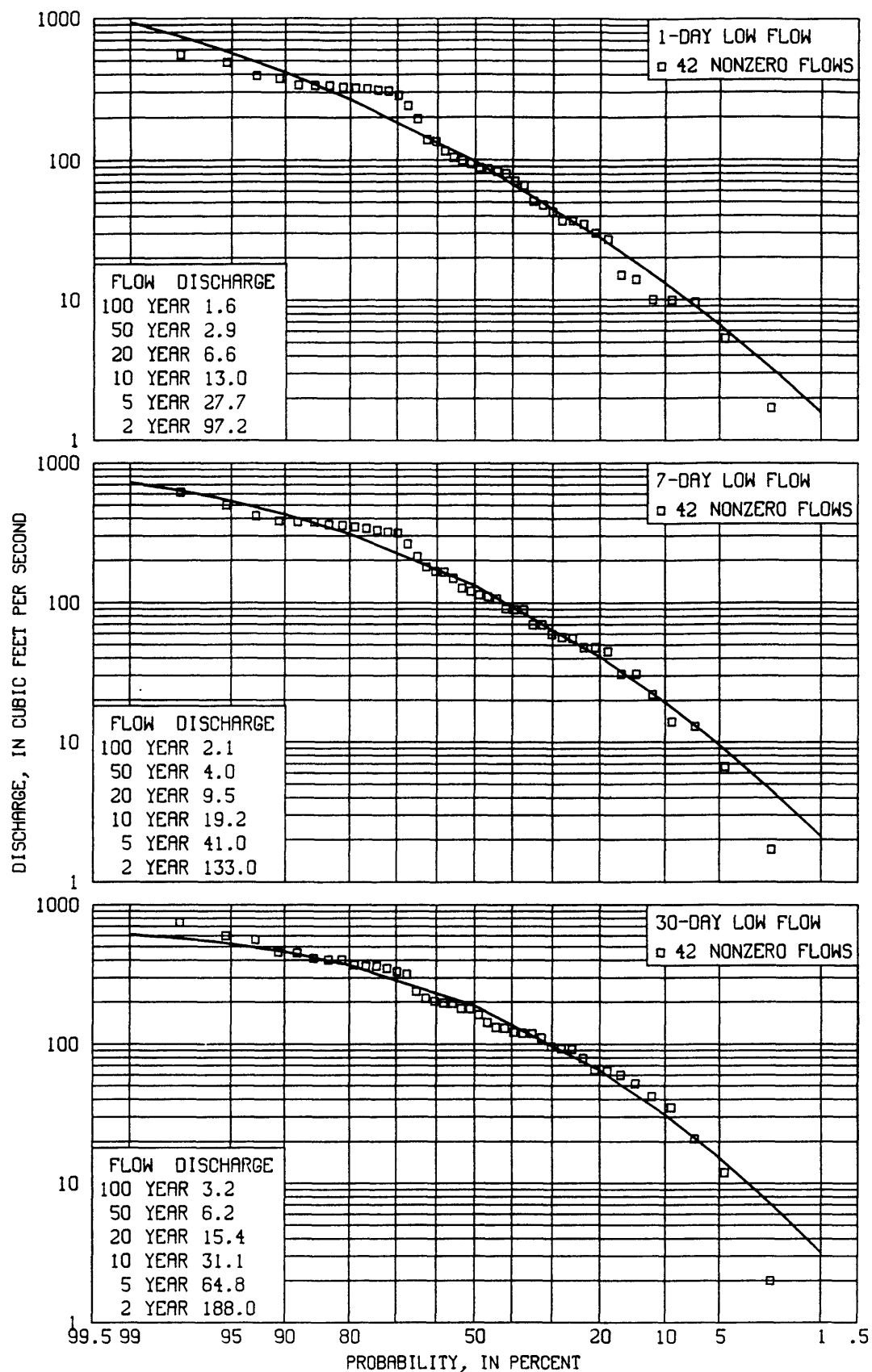
STATION 5049000 MUSTINKA RIVER ABOVE WHEATON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



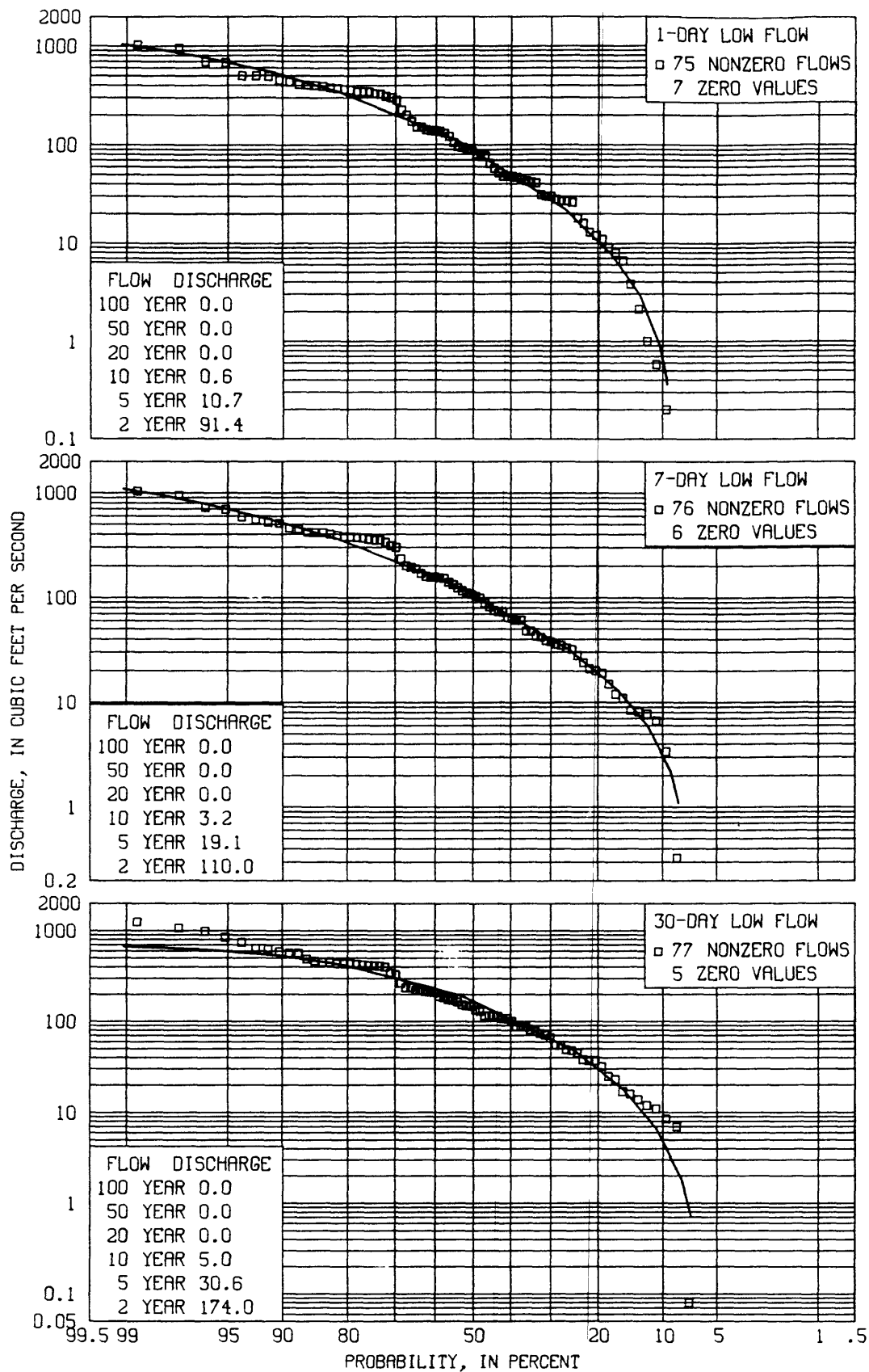
STATION 5050000 BOIS DE SIOUX RIVER NEAR WHITE ROCK, SD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



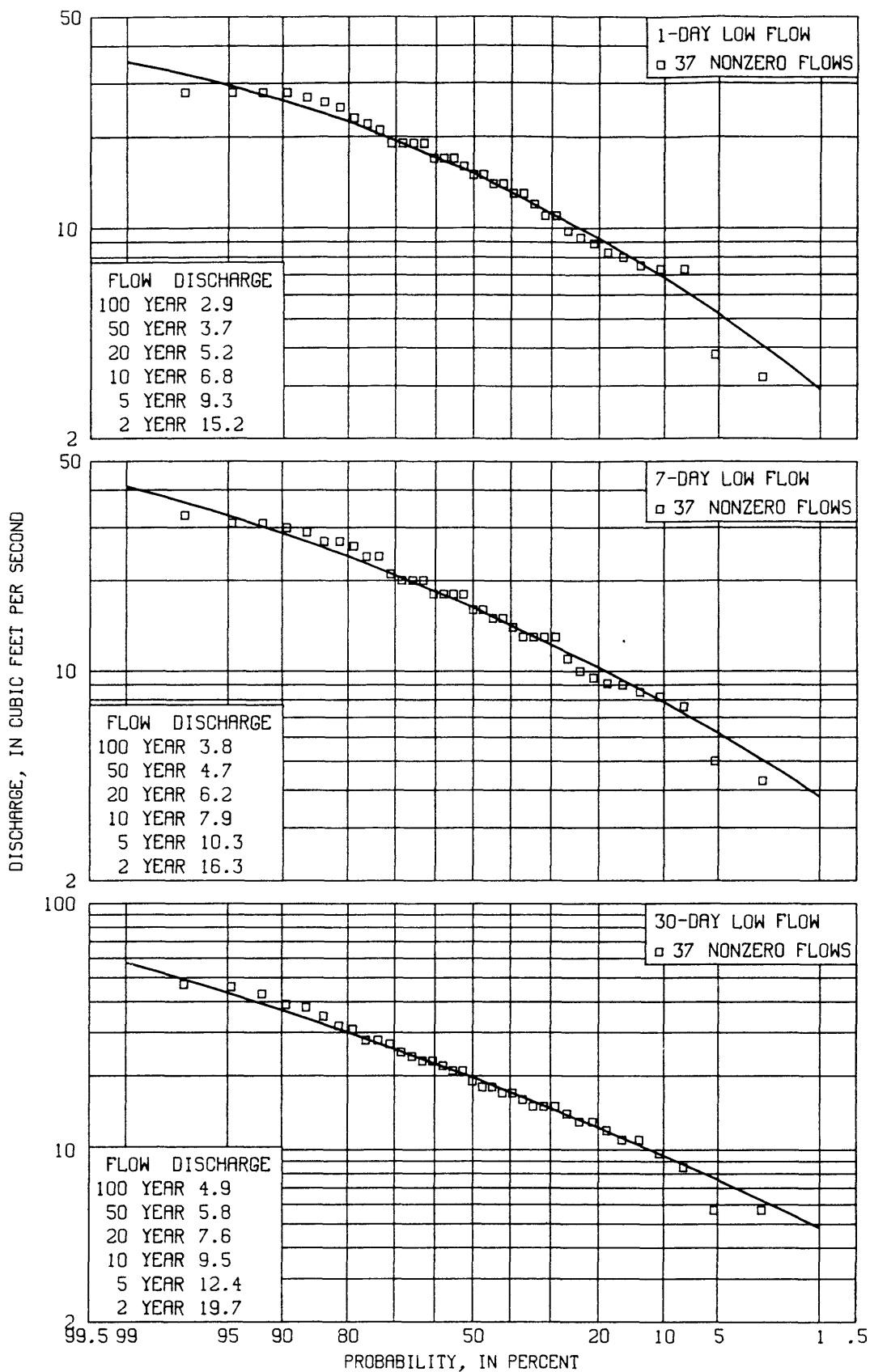
STATION 5050500 BOIS DE SIOUX RIVER NEAR FAIRMOUNT, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



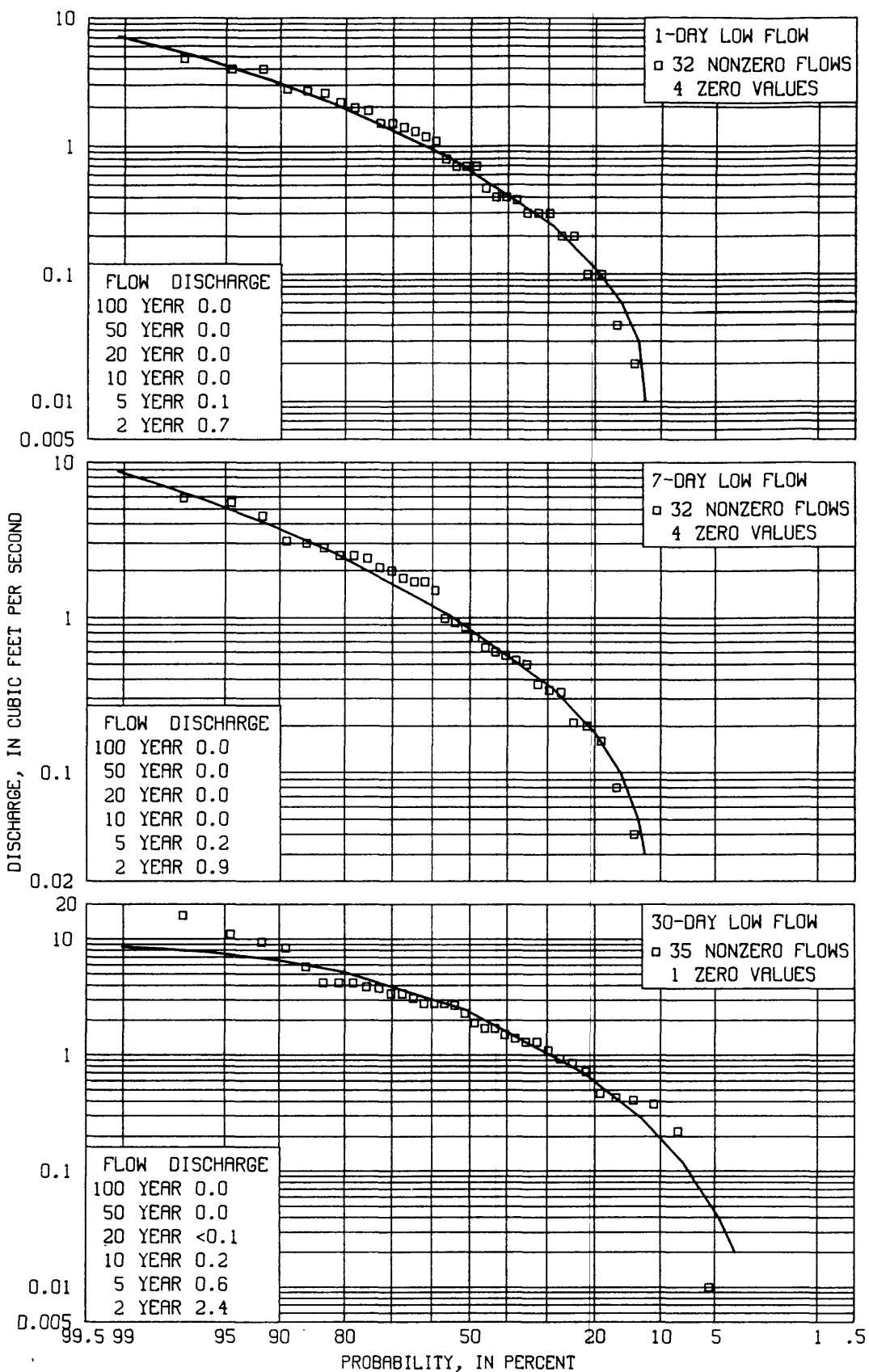
STATION 5051500 RED RIVER OF THE NORTH AT WAHPETON, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



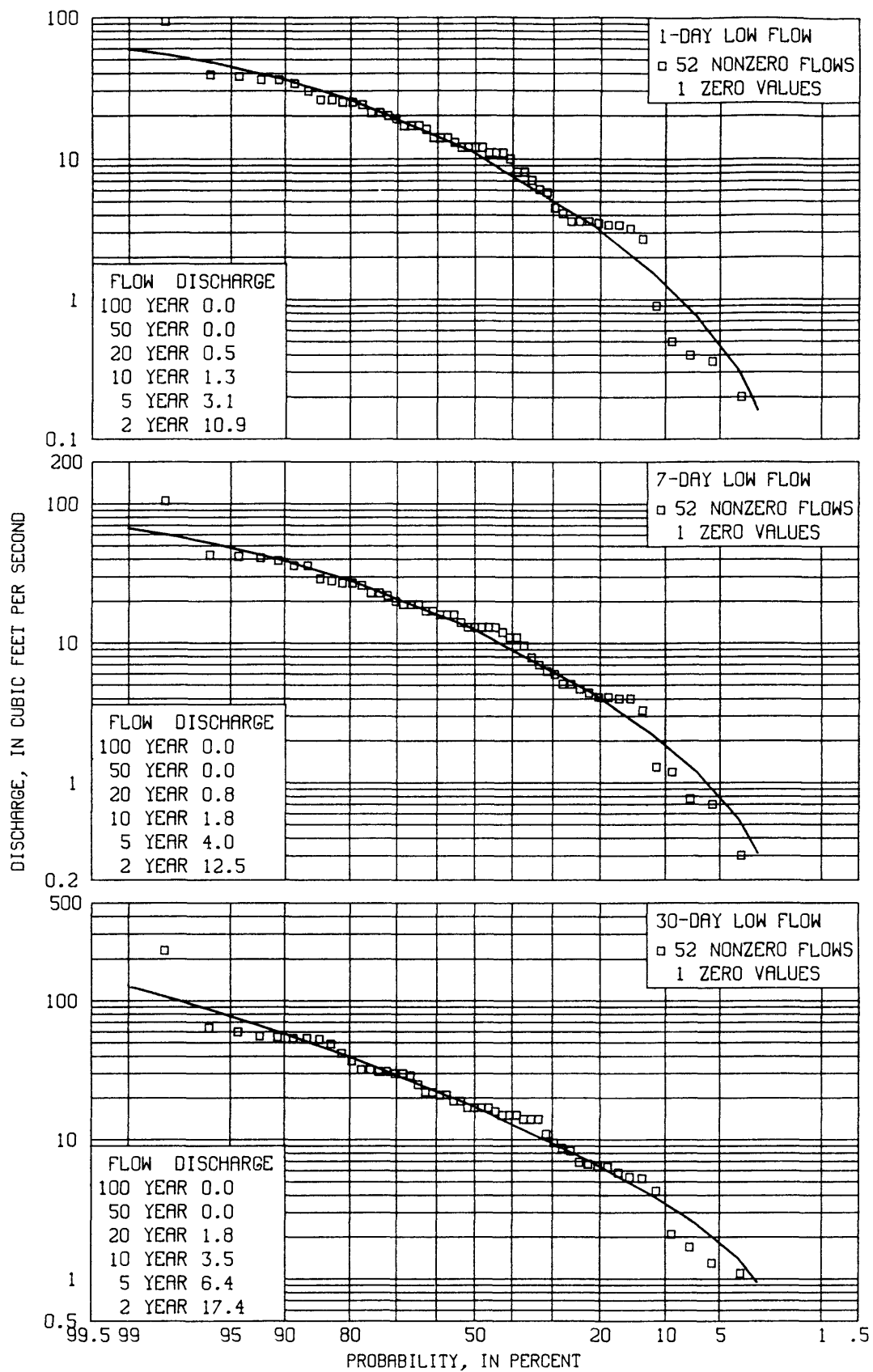
STATION 5054000 RED RIVER OF THE NORTH AT FARGO, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



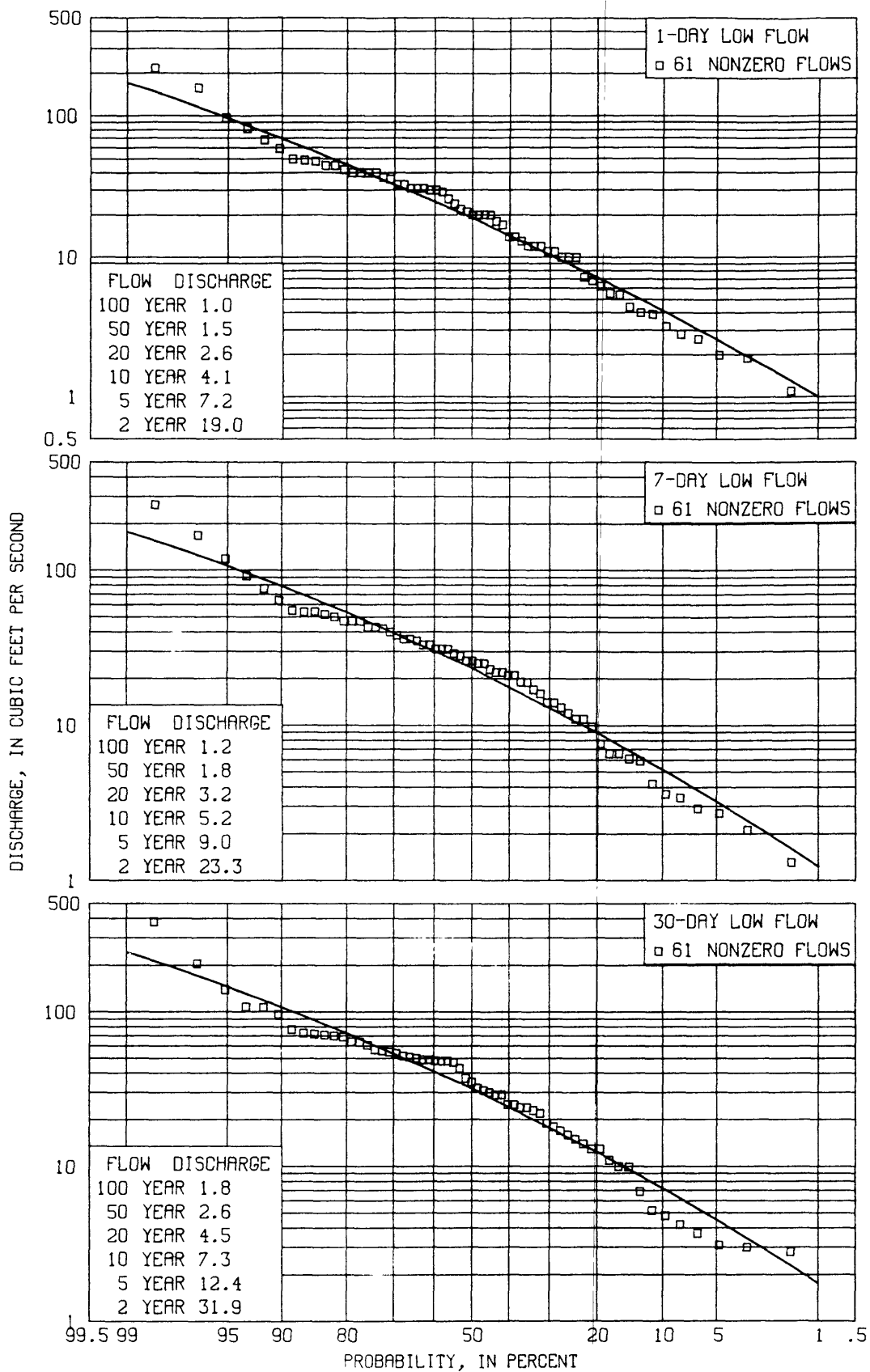
STATION 5061000 BUFFALO RIVER NEAR HAWLEY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



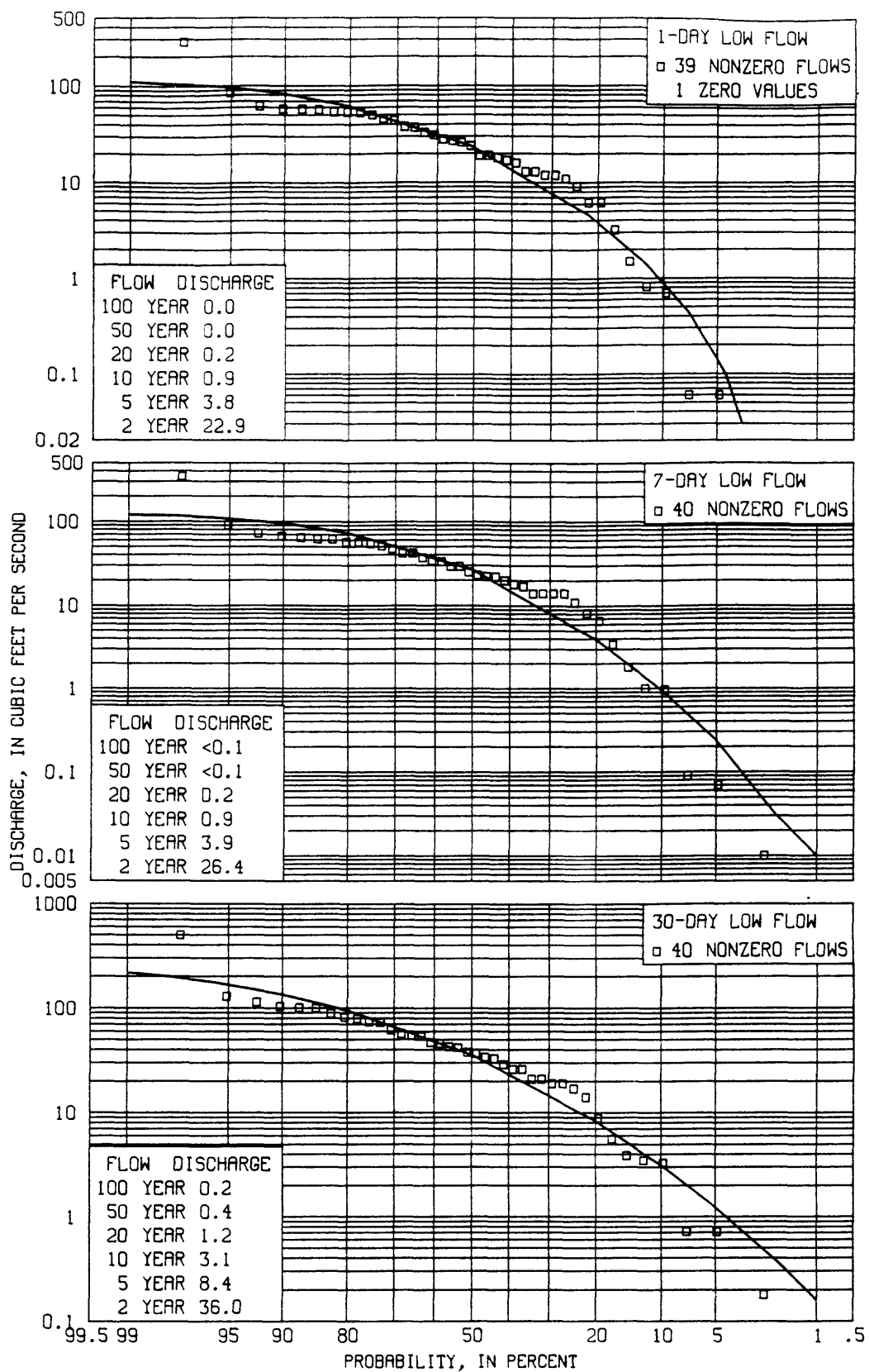
STATION 5061500 SOUTH BRANCH BUFFALO RIVER AT SABIN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



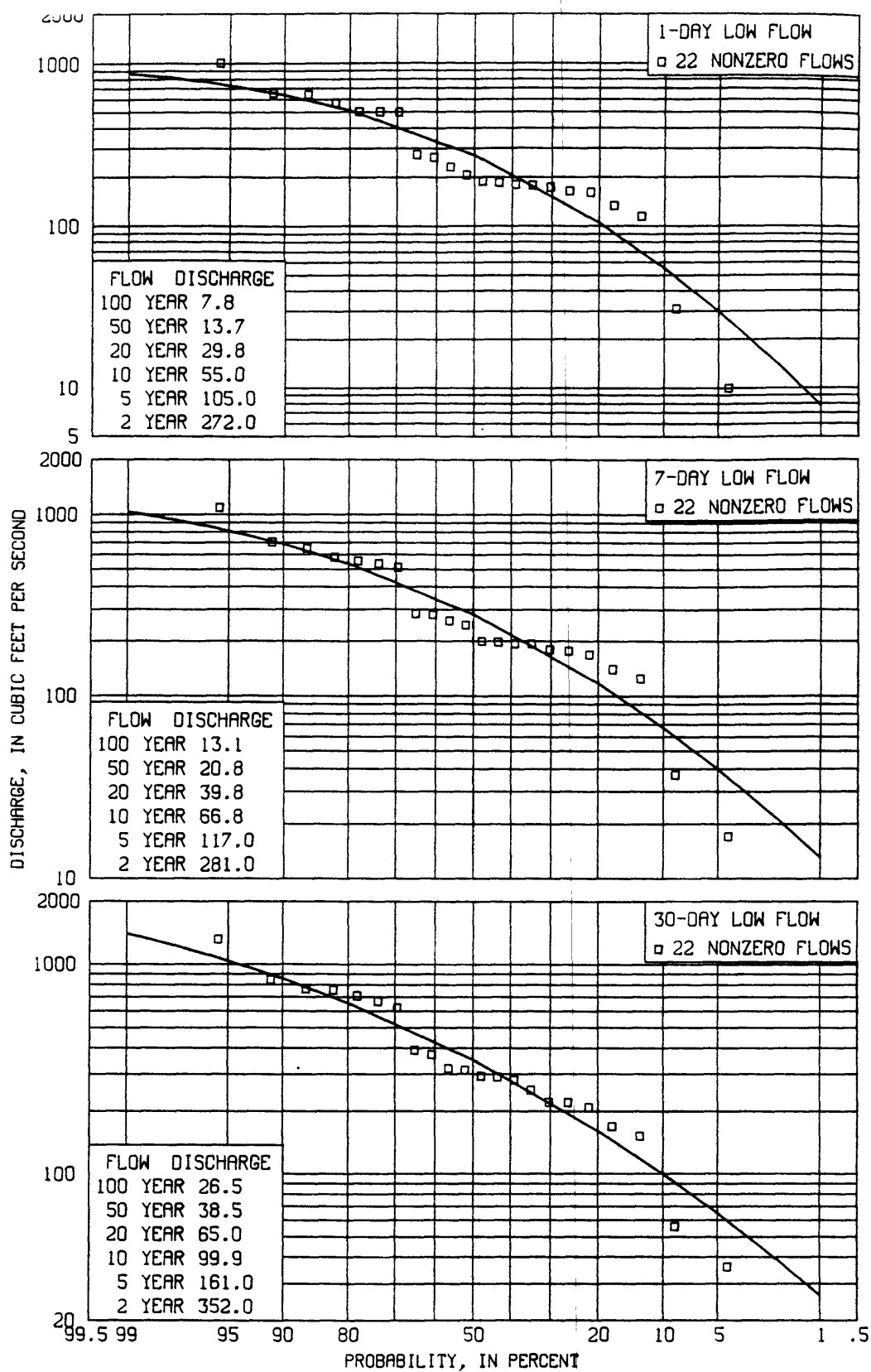
STATION 5062000 BUFFALO RIVER NEAR DILWORTH
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



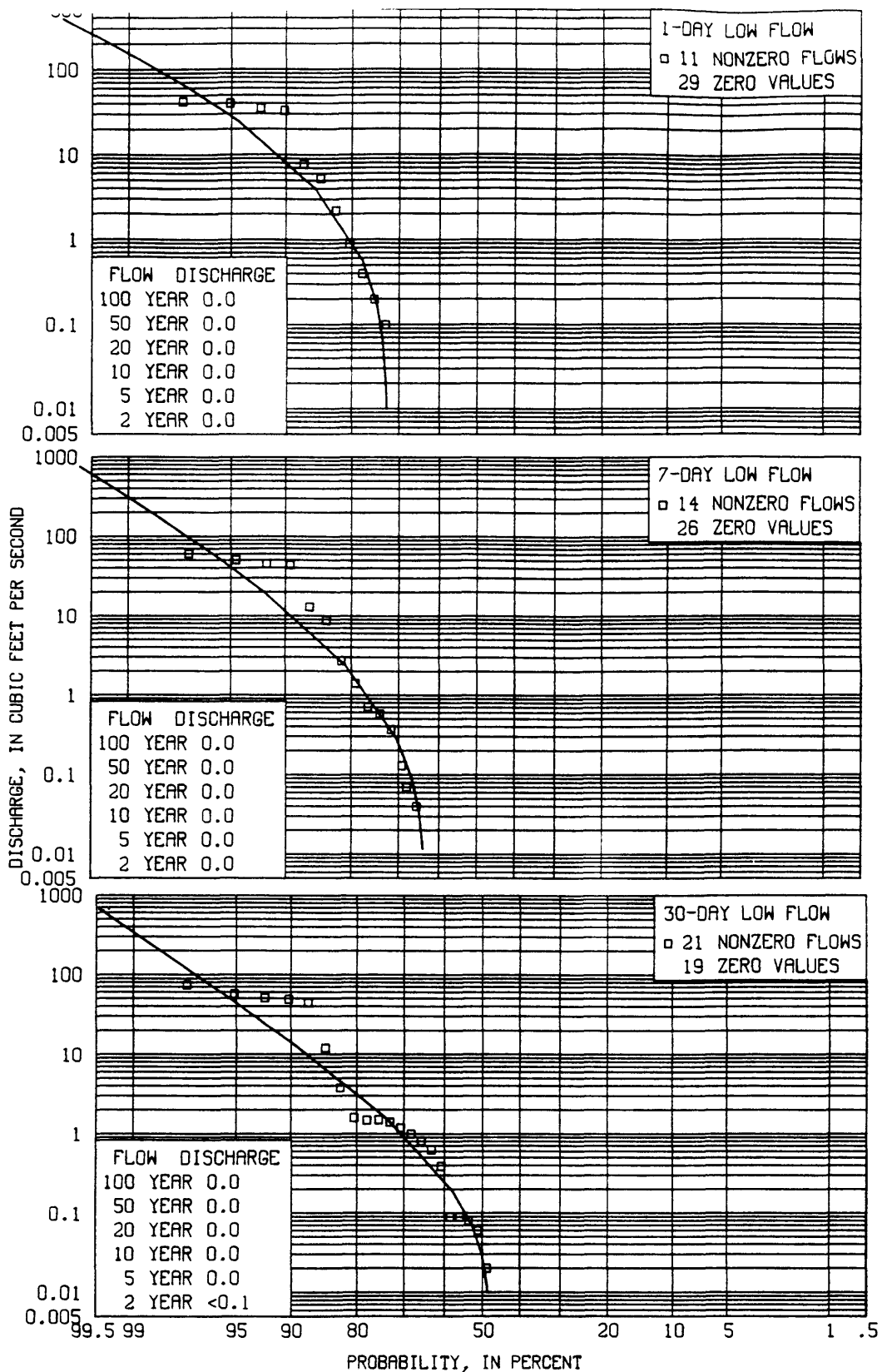
STATION 5062500 WILD RICE RIVER AT TWIN VALLEY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



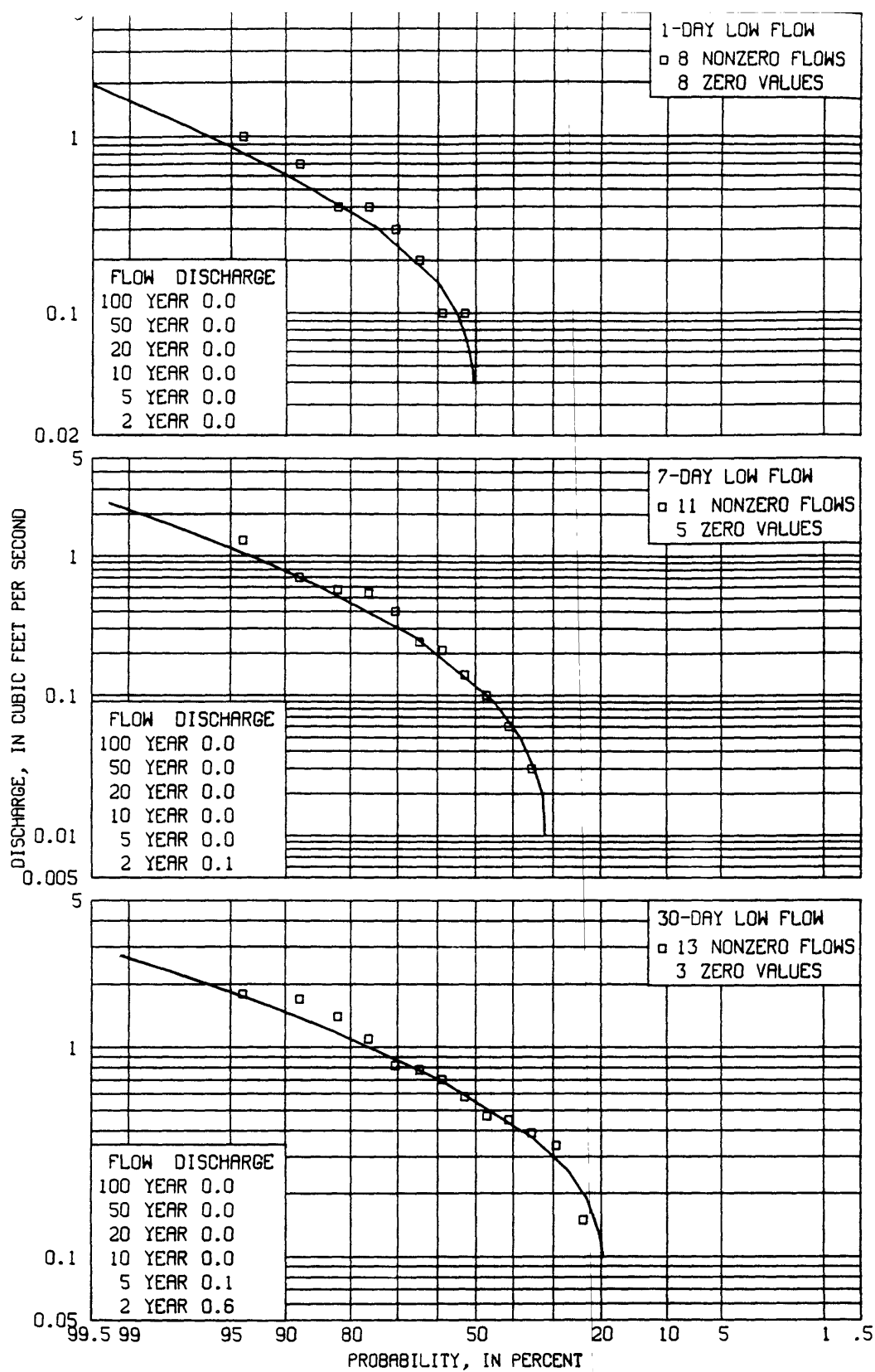
STATION 5064000 WILD RICE RIVER AT HENDRUM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



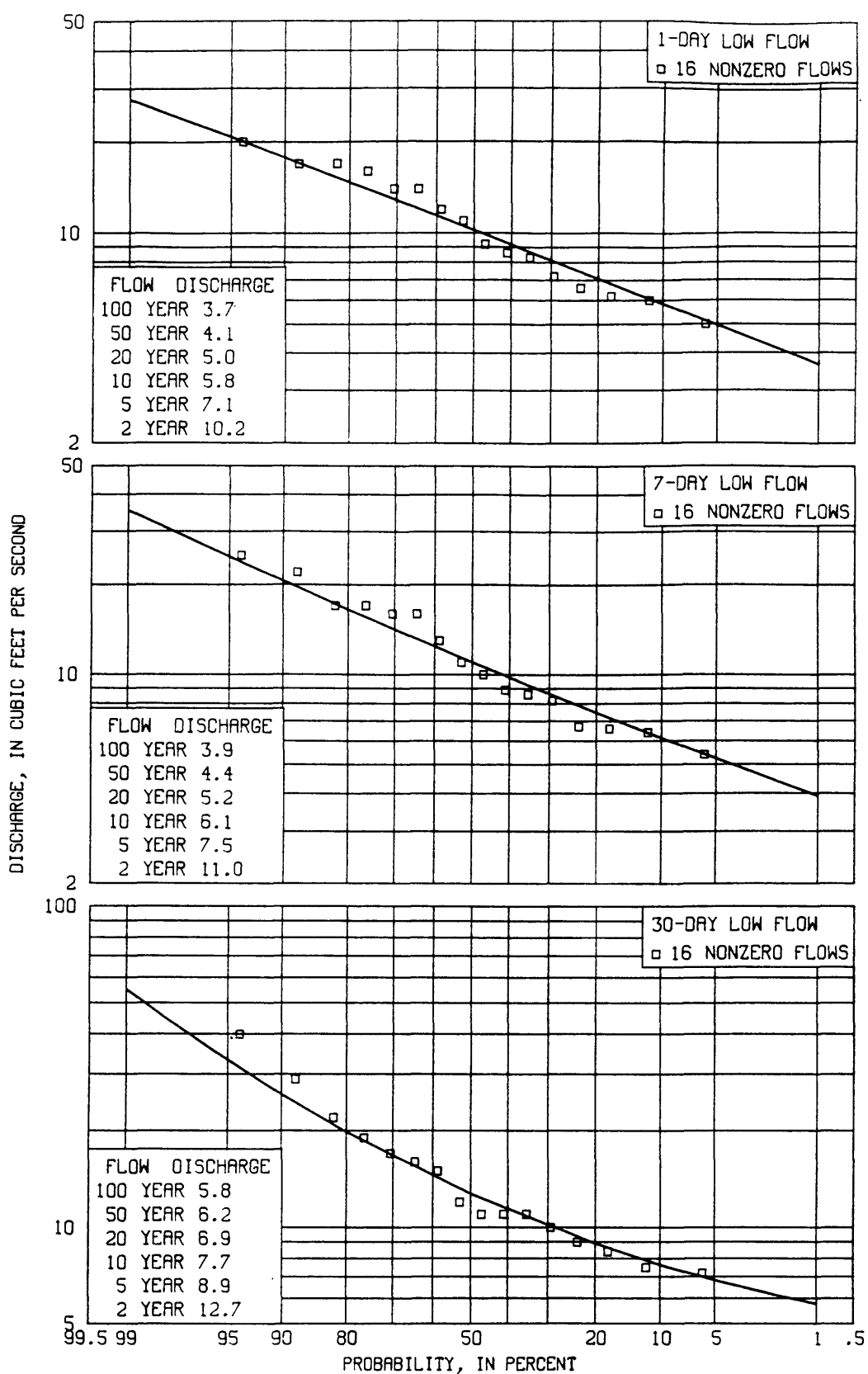
STATION 5064500 RED RIVER OF THE NORTH AT HALSTAD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



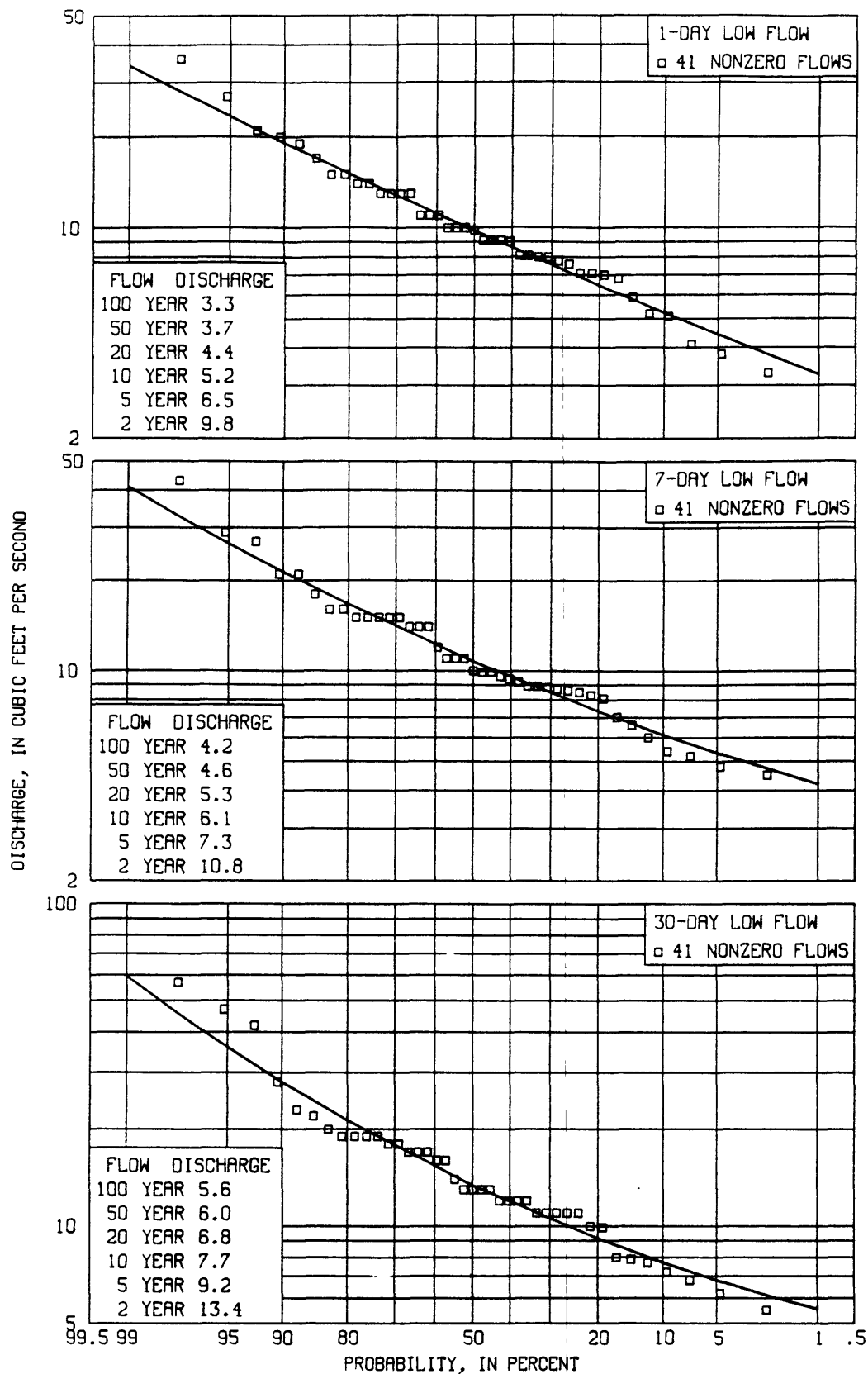
STATION 5067500 MARSH RIVER NEAR SHELLEY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



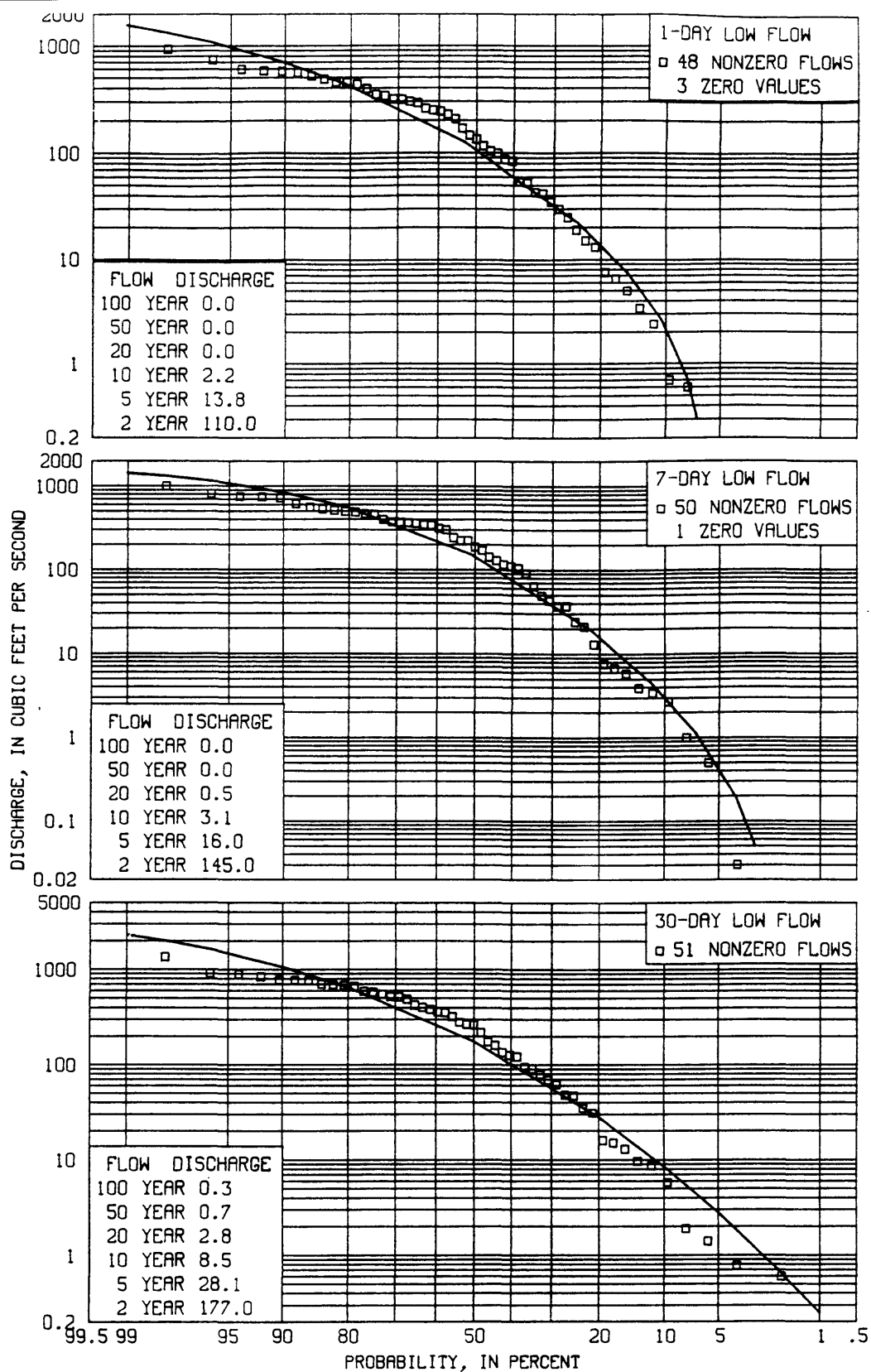
STATION 5068000 SAND HILL RIVER AT BELTRAMI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



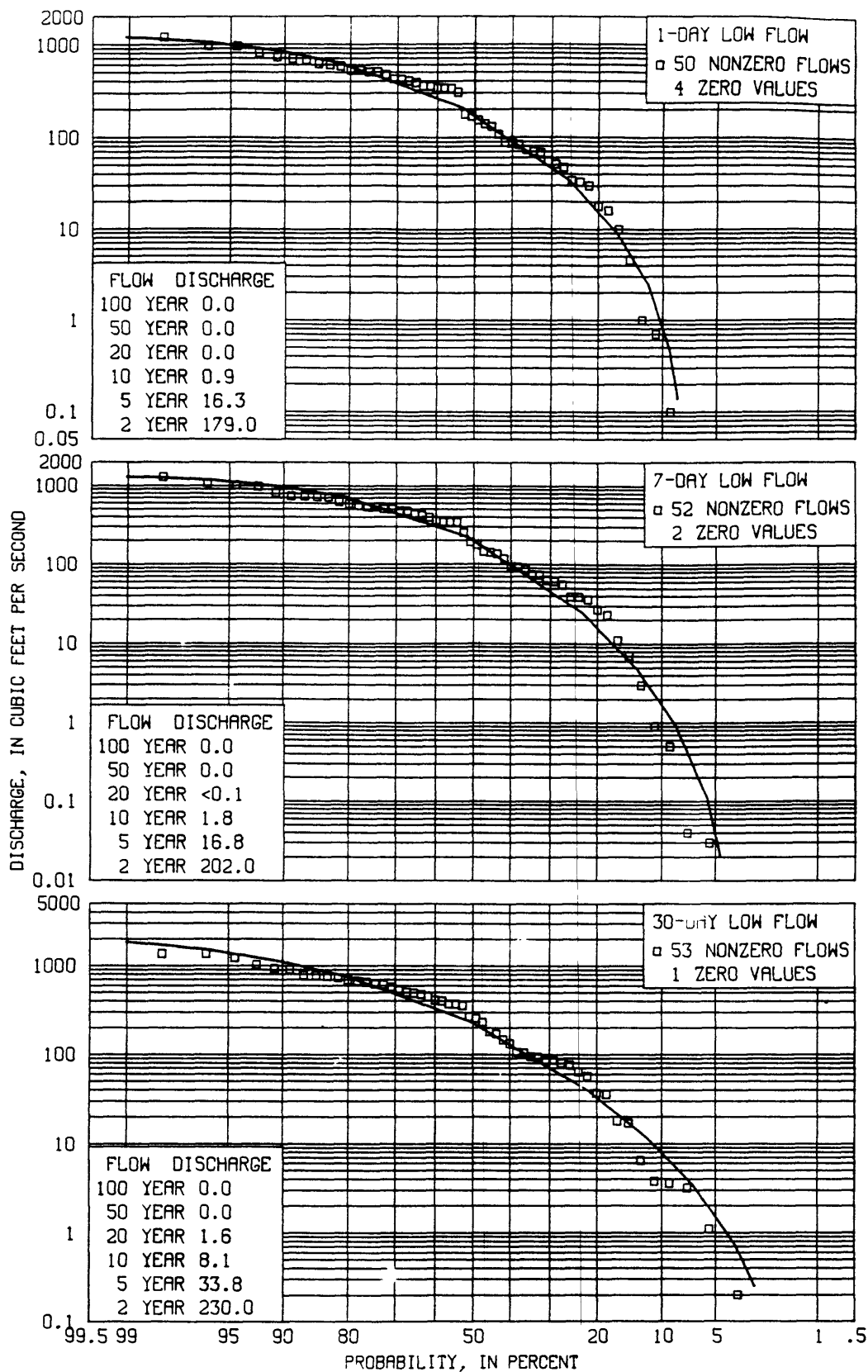
STATION 5068500 SAND HILL DITCH AT BELTRAMI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



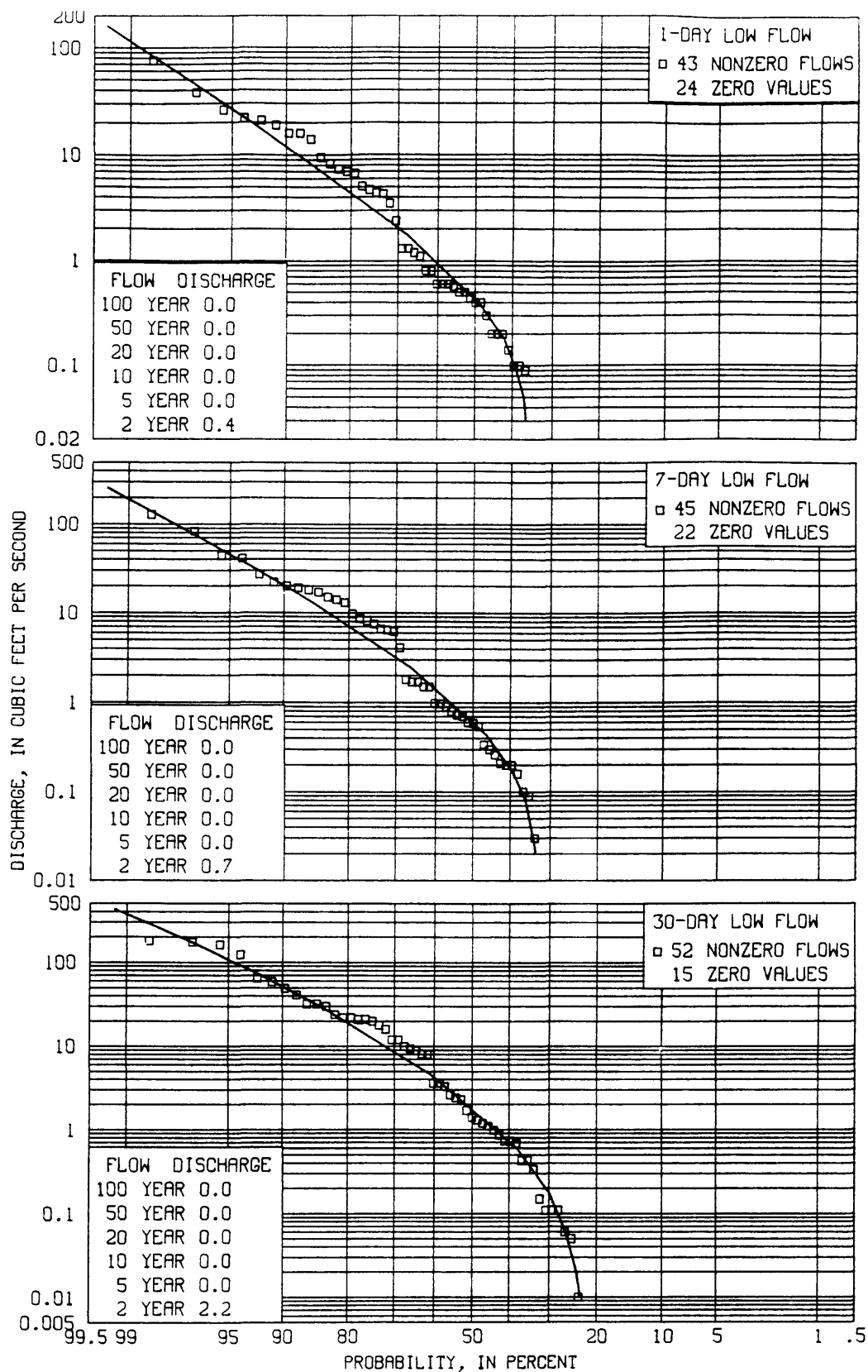
STATION 5069000 SAND HILL RIVER AT CLIMAX
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



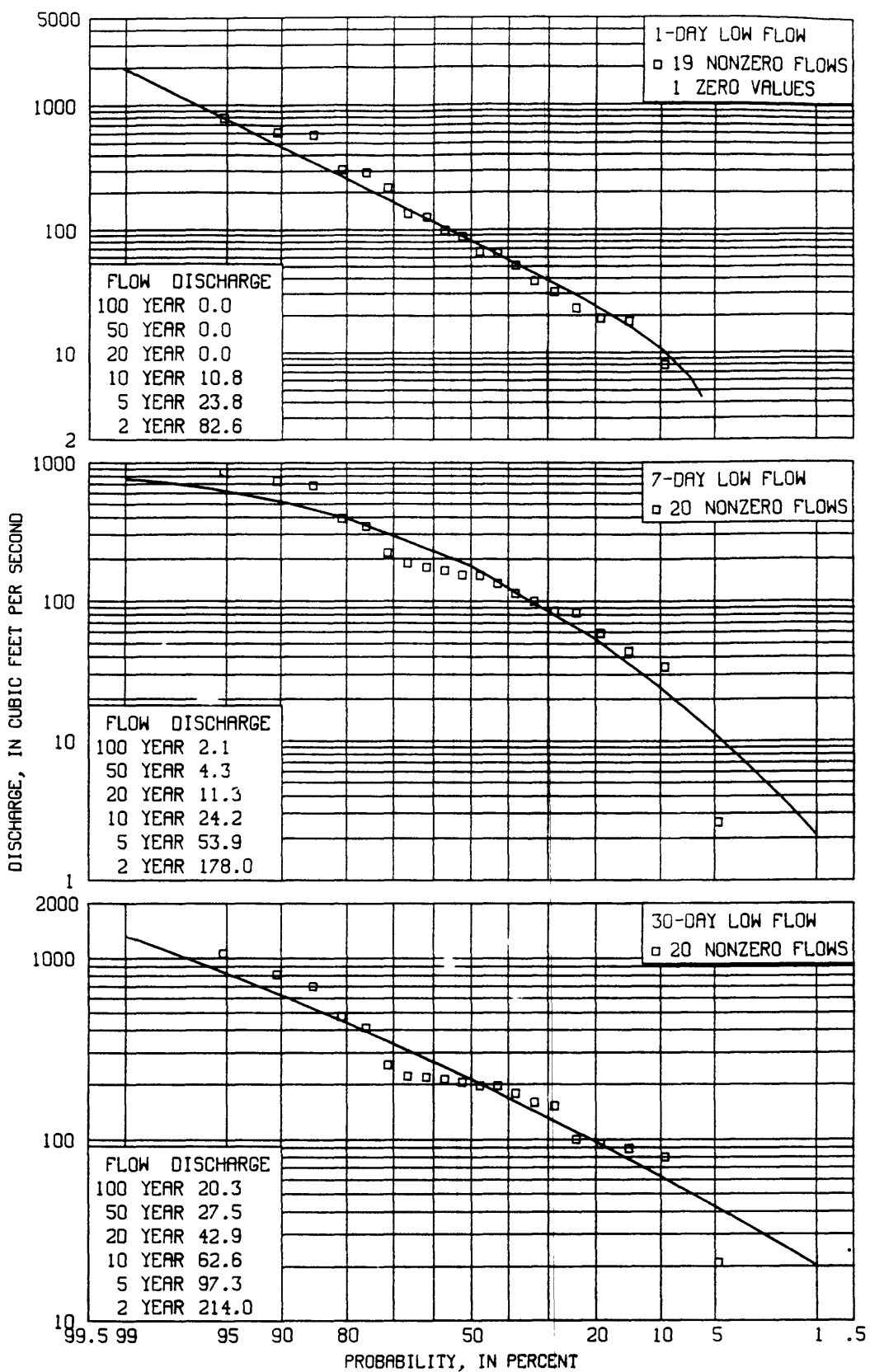
STATION 5074500 RED LAKE RIVER NEAR RED LAKE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



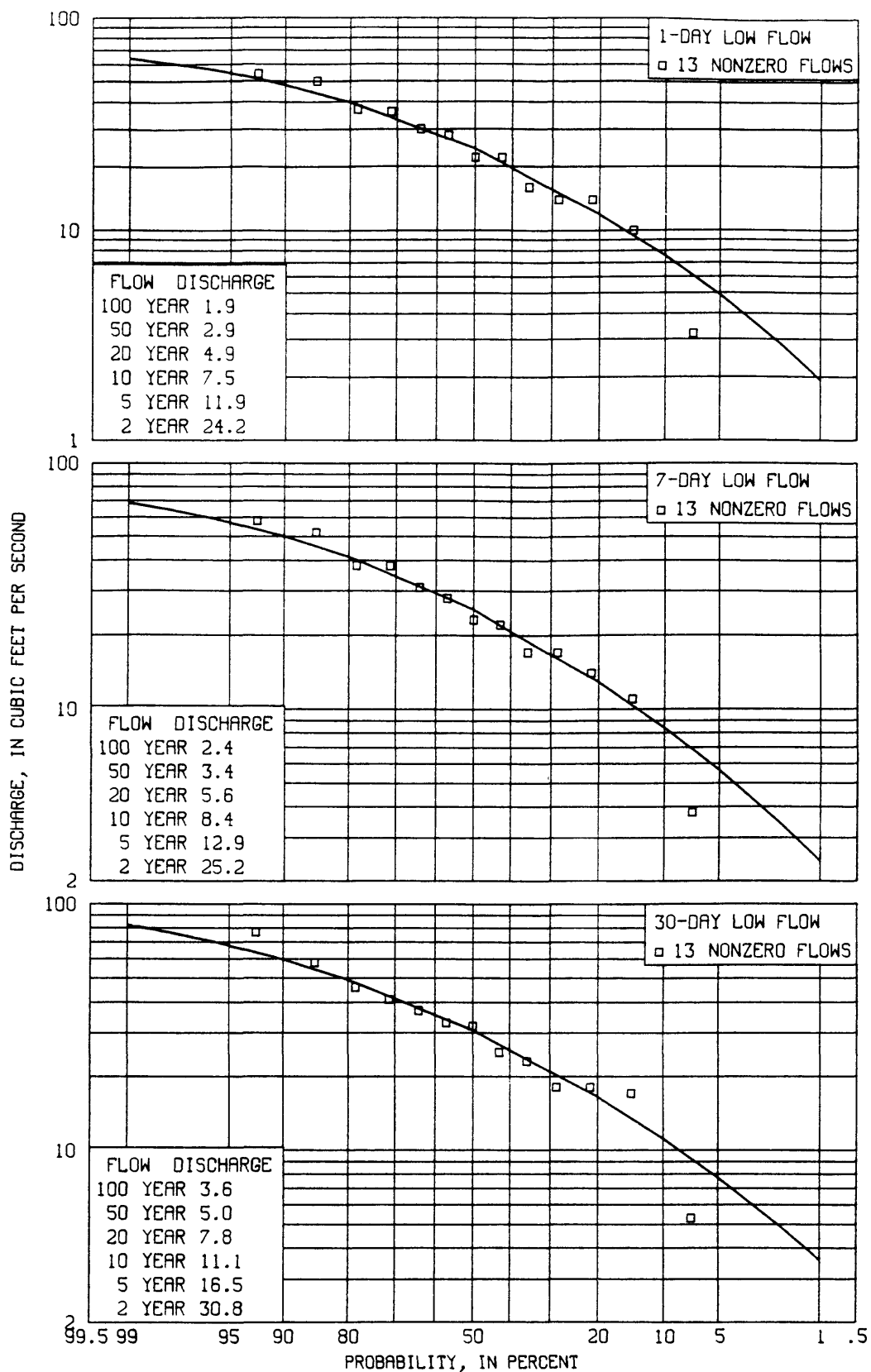
STATION 5075000 RED LAKE RIVER AT HIGH LANDING NR GOODRIDGE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



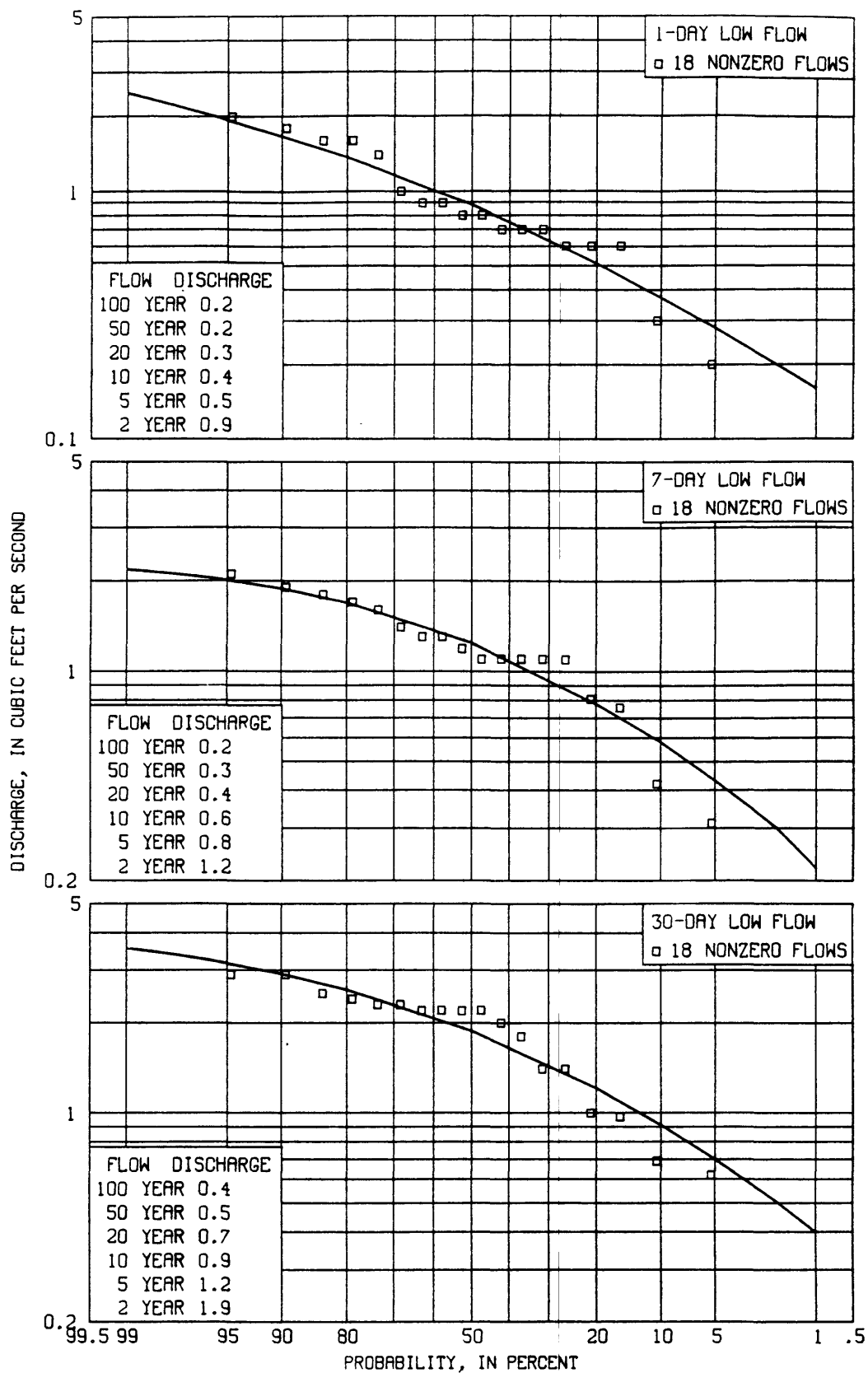
STATION 5076000 THIEF RIVER NEAR THIEF RIVER FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



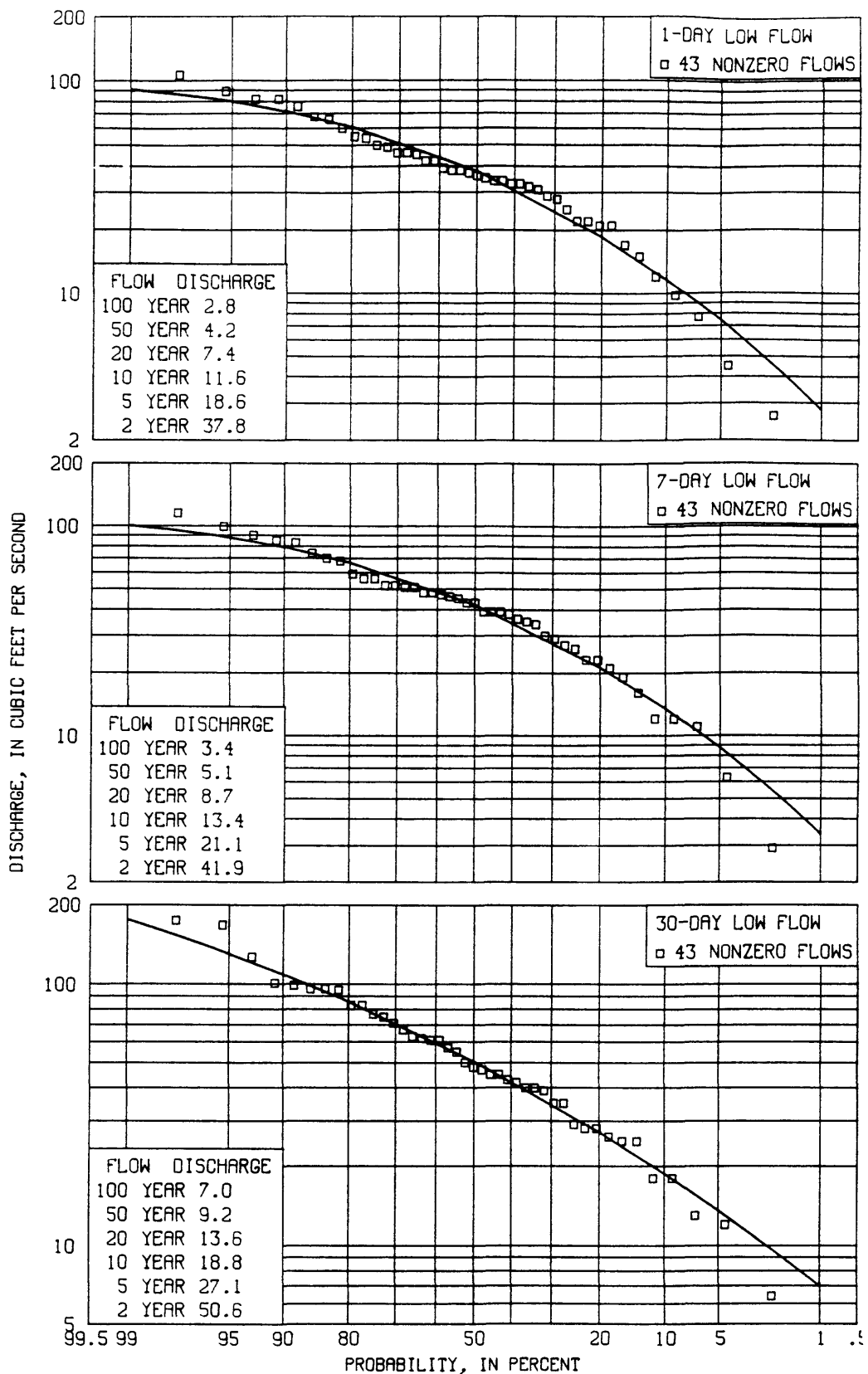
STATION 5076500 RED LAKE RIVER AT THIEF RIVER FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



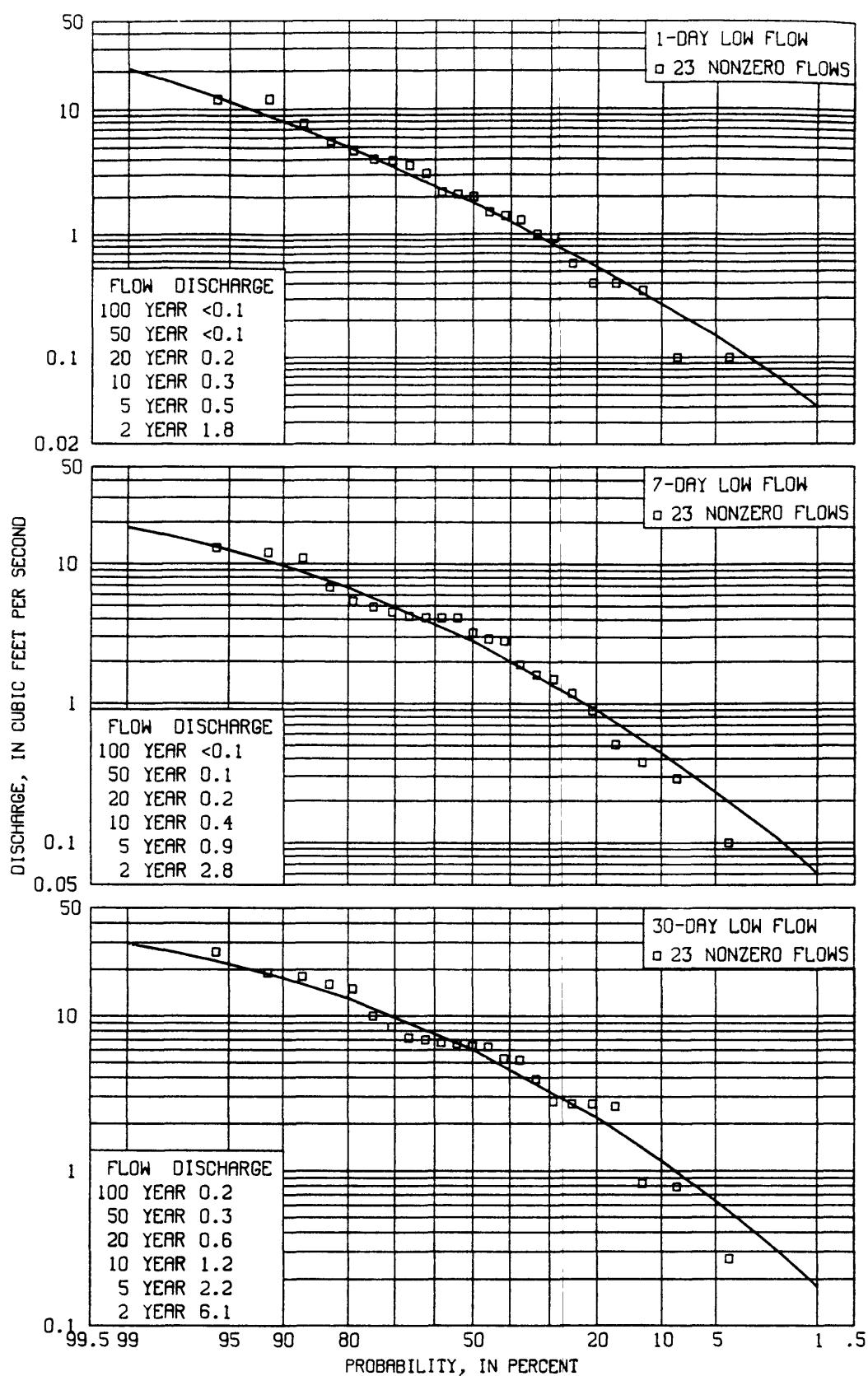
STATION 5077500 CLEARWATER RIVER NEAR LEONARD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



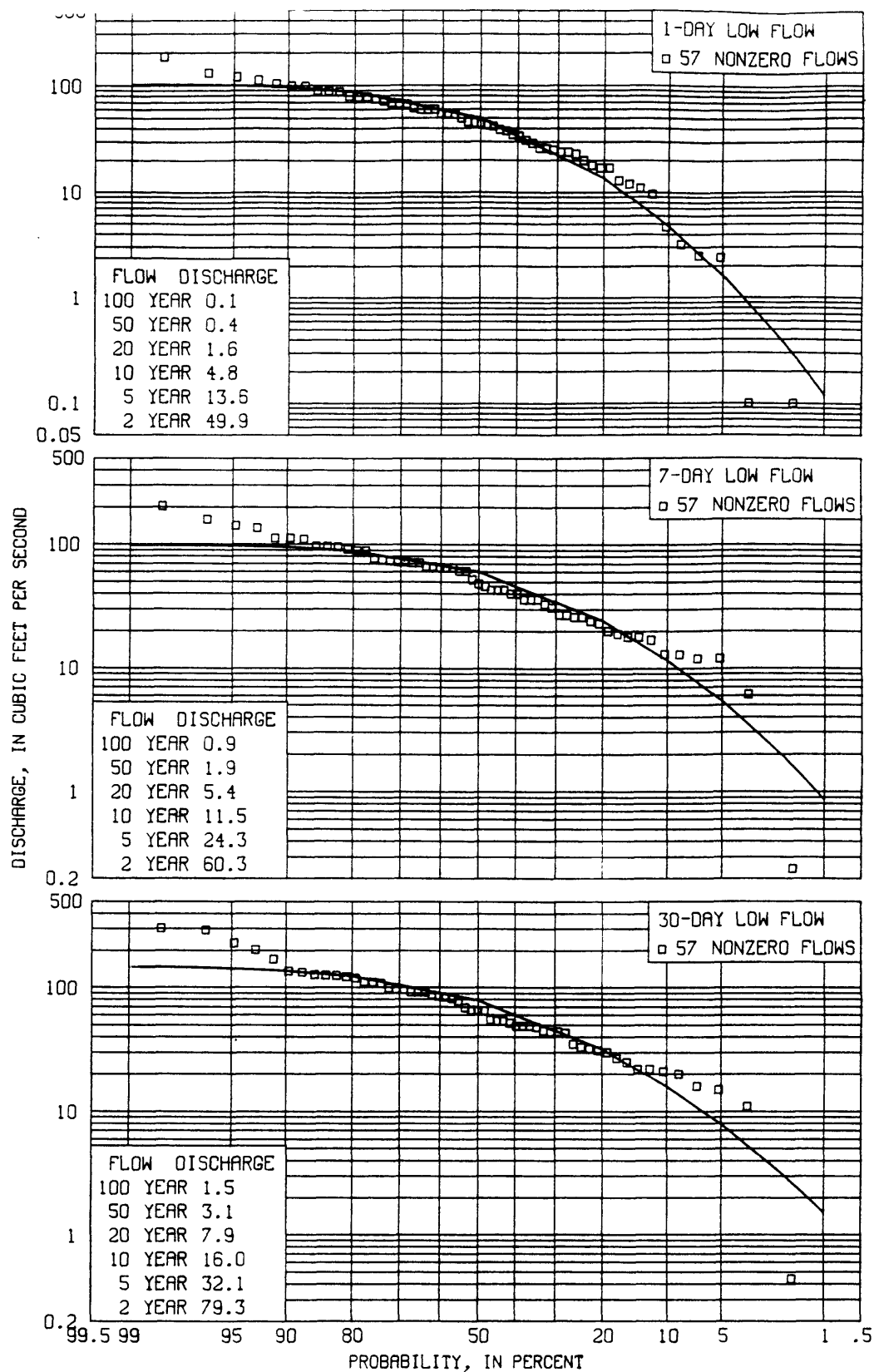
STATION 5077700 RUFFY BROOK NEAR GONVICK
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



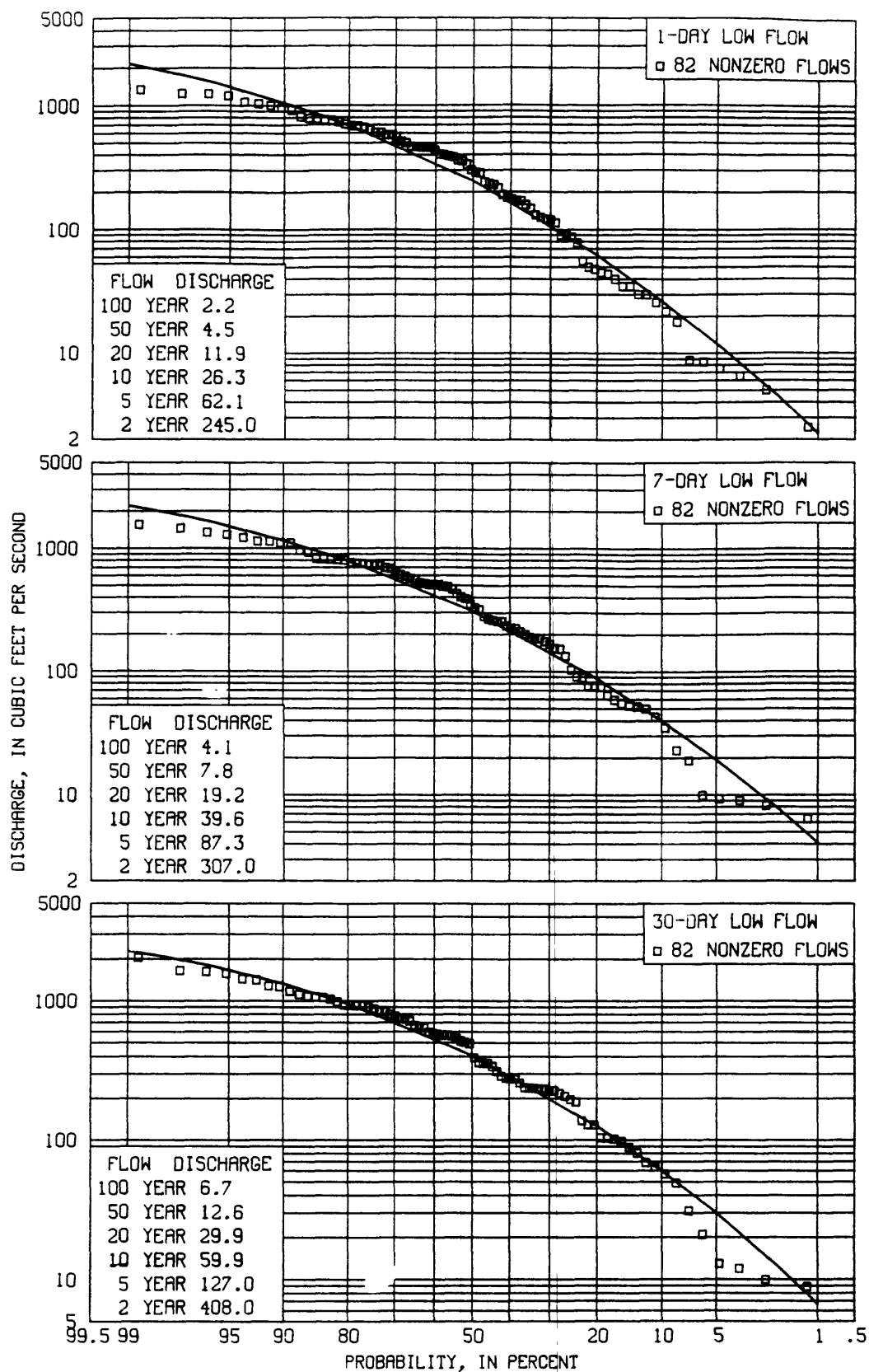
STATION 5078000 CLEARWATER RIVER AT PLUMMER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



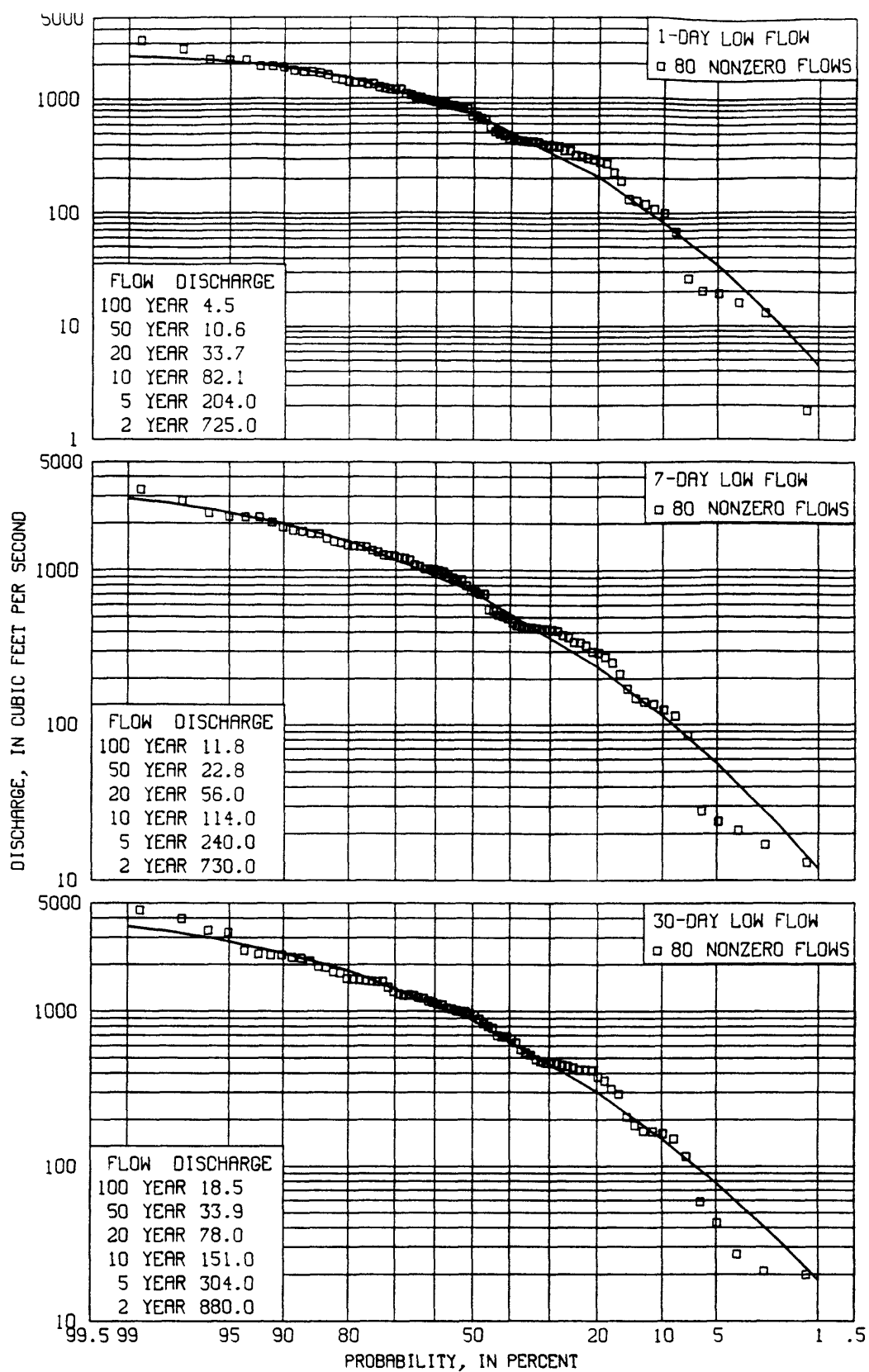
STATION 5078230 LOST RIVER AT OKLEE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



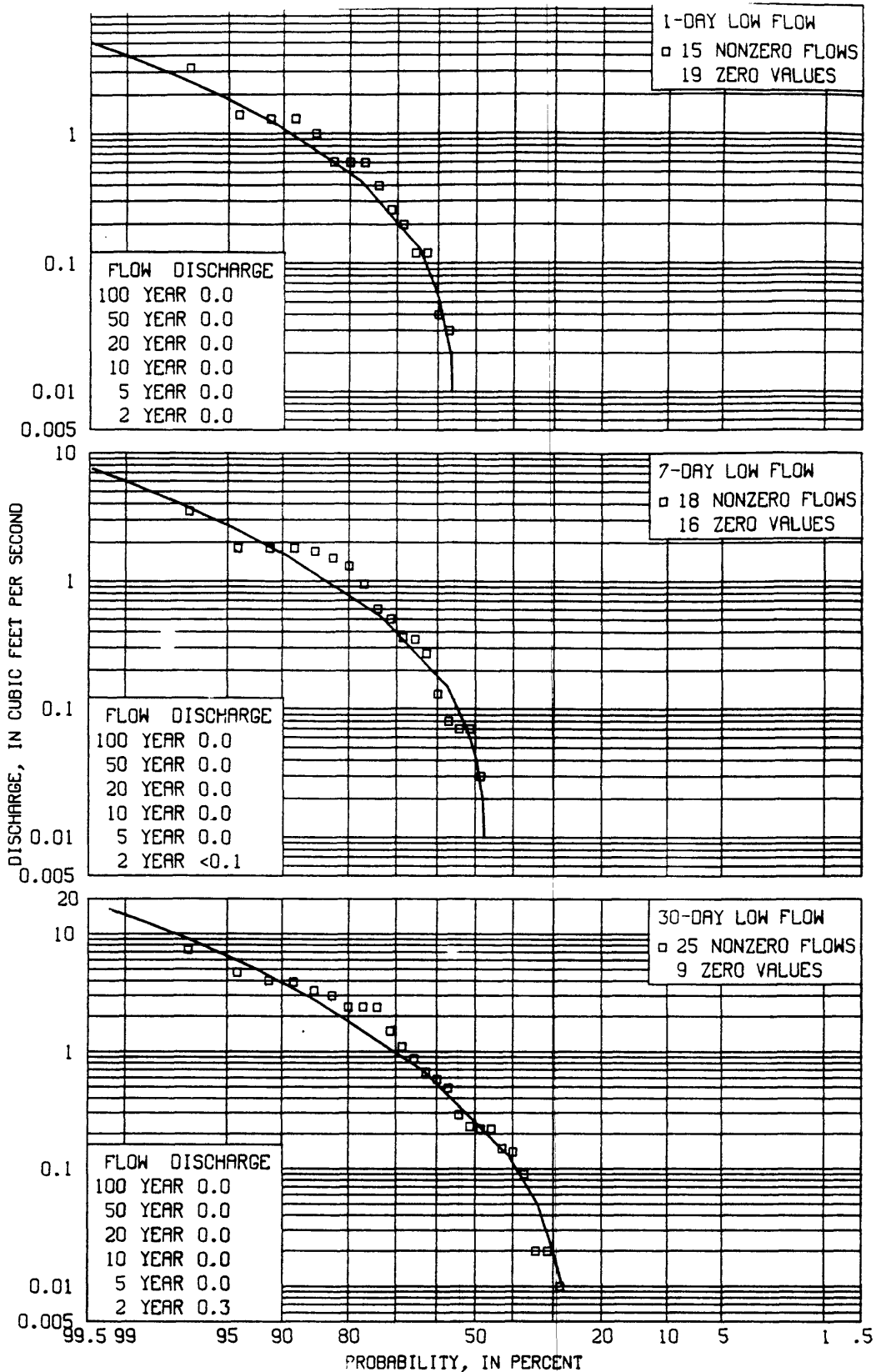
STATION 5078500 CLEARWATER RIVER AT RED LAKE FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



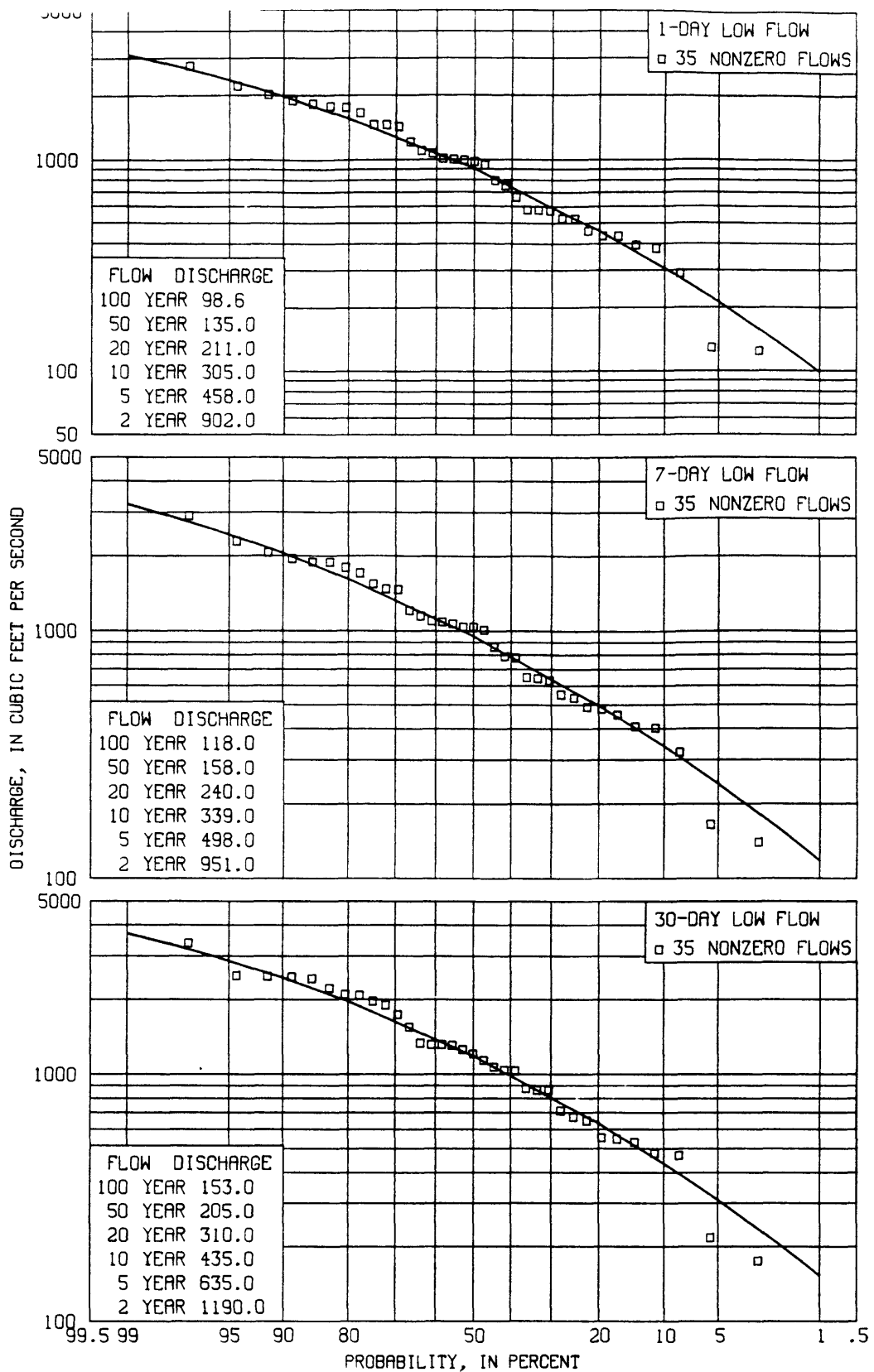
STATION 5079000 RED LAKE RIVER AT CROOKSTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



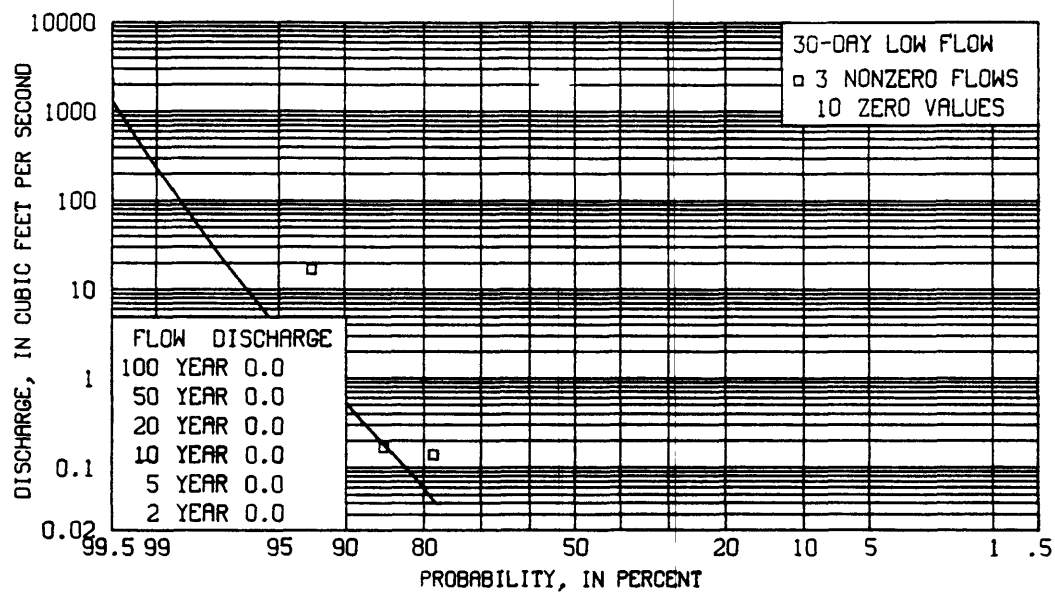
STATION 5082500 RED RIVER OF THE NORTH AT GRAND FORKS, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



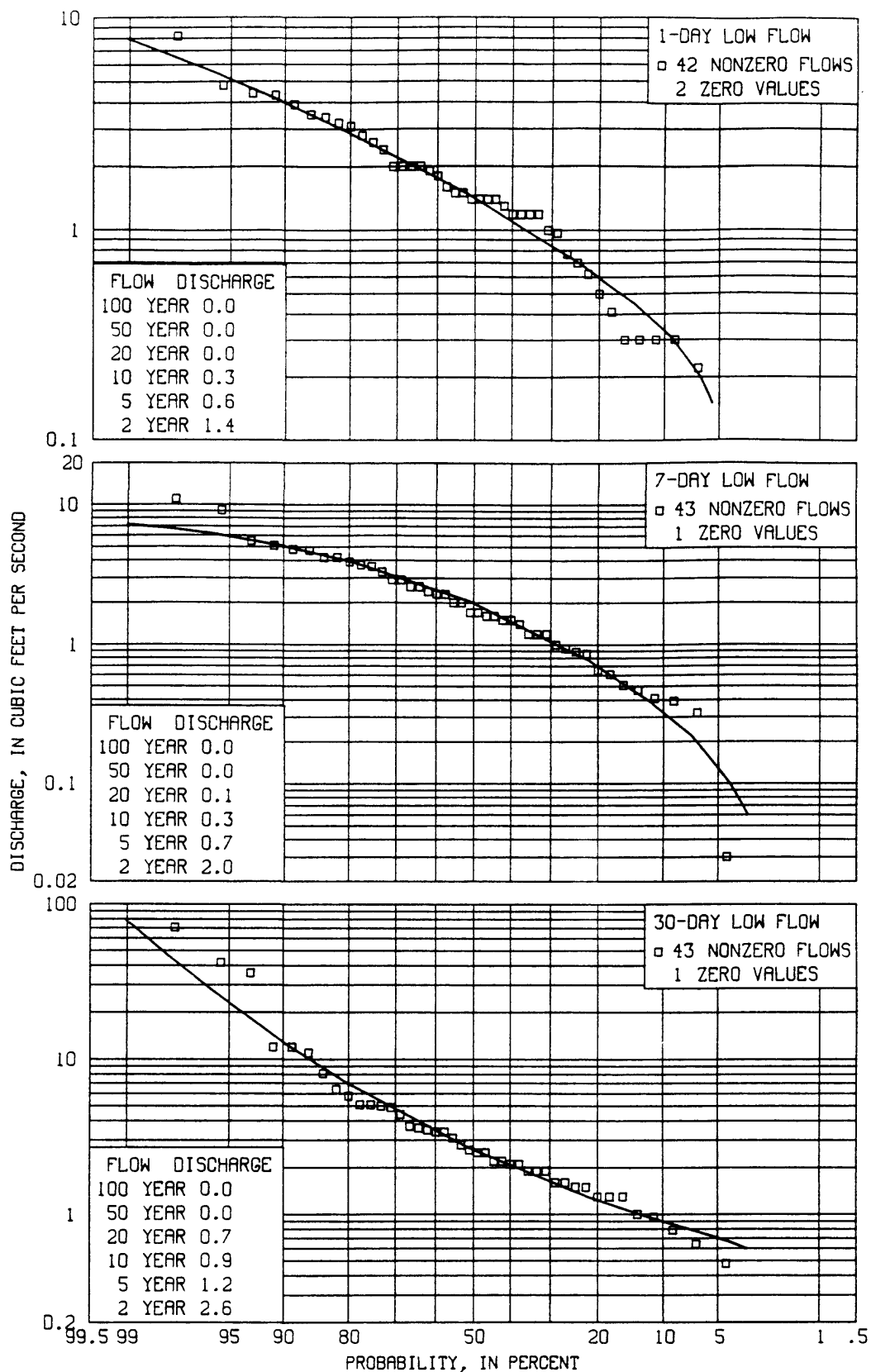
STATION 5087500 MIDDLE RIVER AT ARGYLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



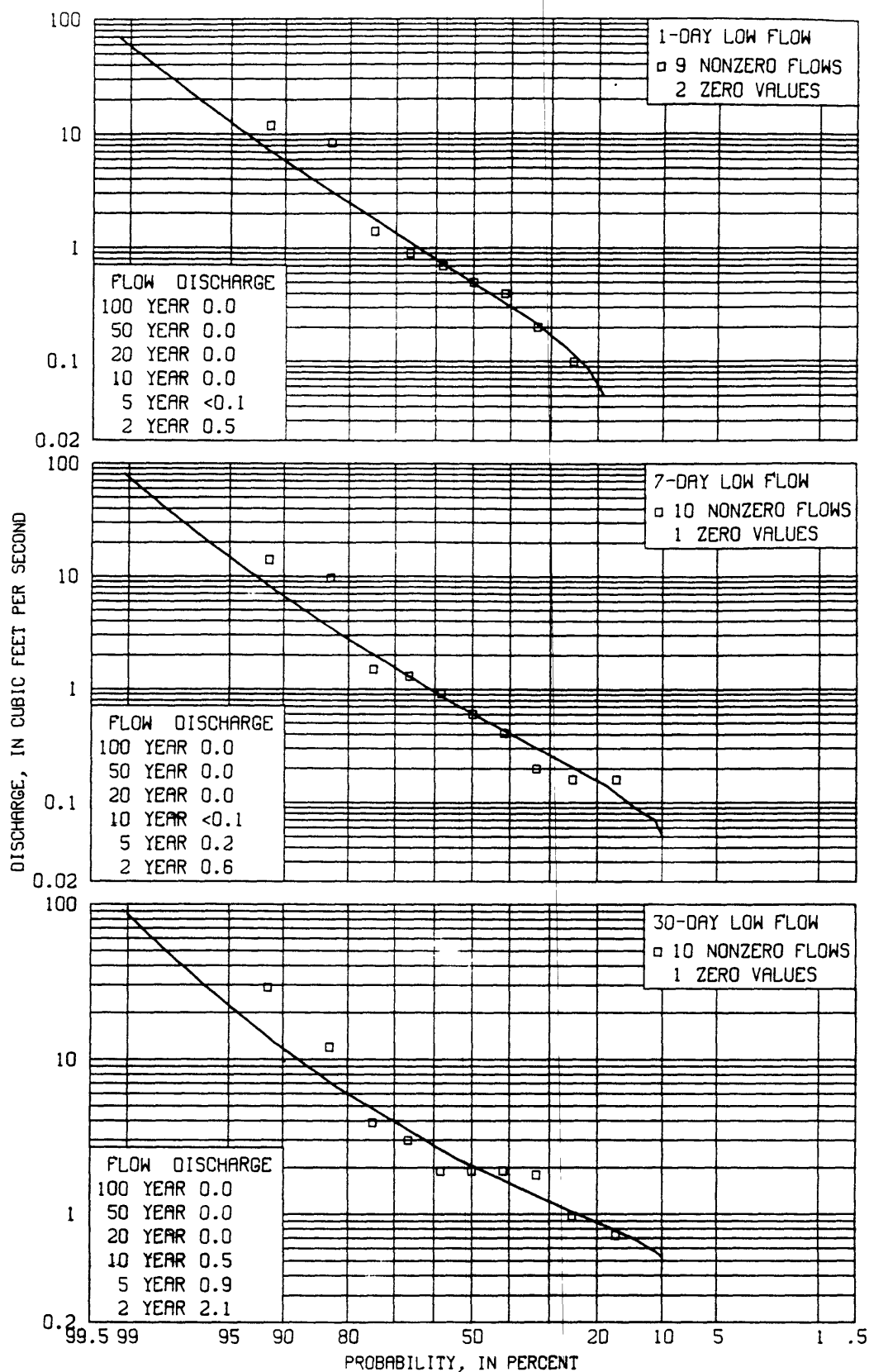
STATION 5092000 RED RIVER OF THE NORTH AT DRAYTON, ND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



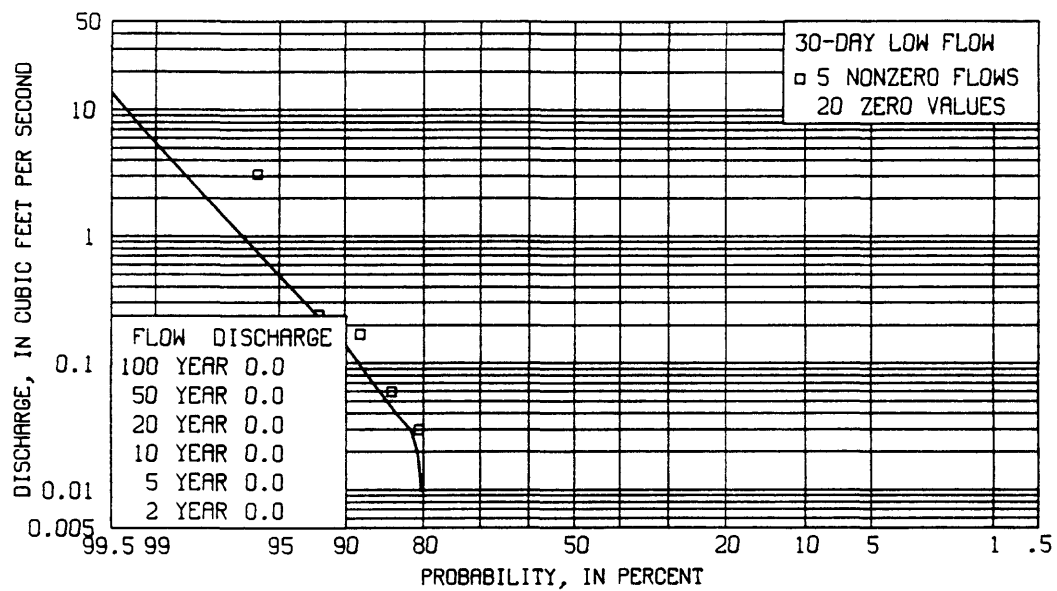
STATION 5093000 SOUTH BRANCH TWO RIVERS AT PELAN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



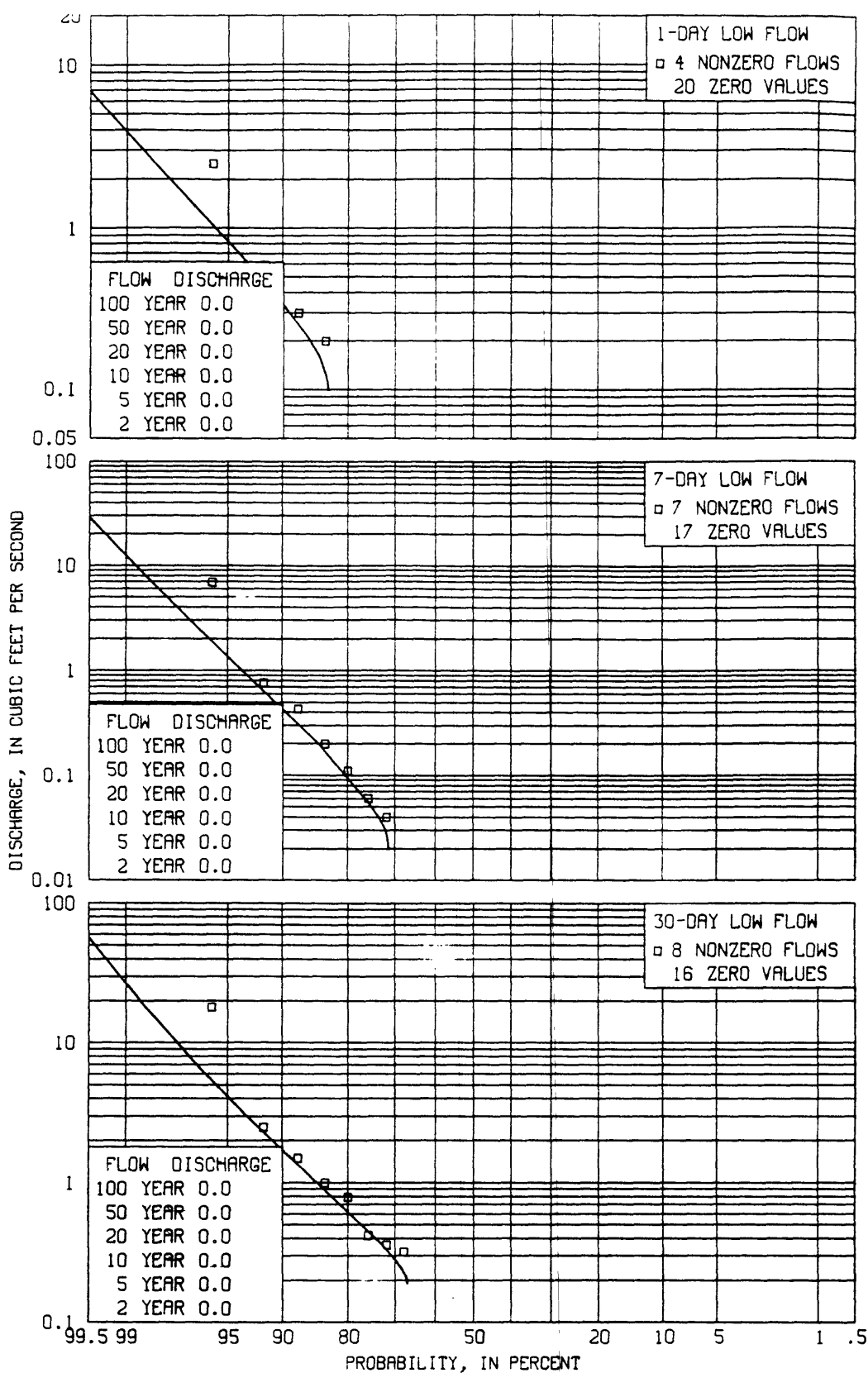
STATION 5094000 SOUTH BRANCH TWO RIVERS AT LAKE BRONSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



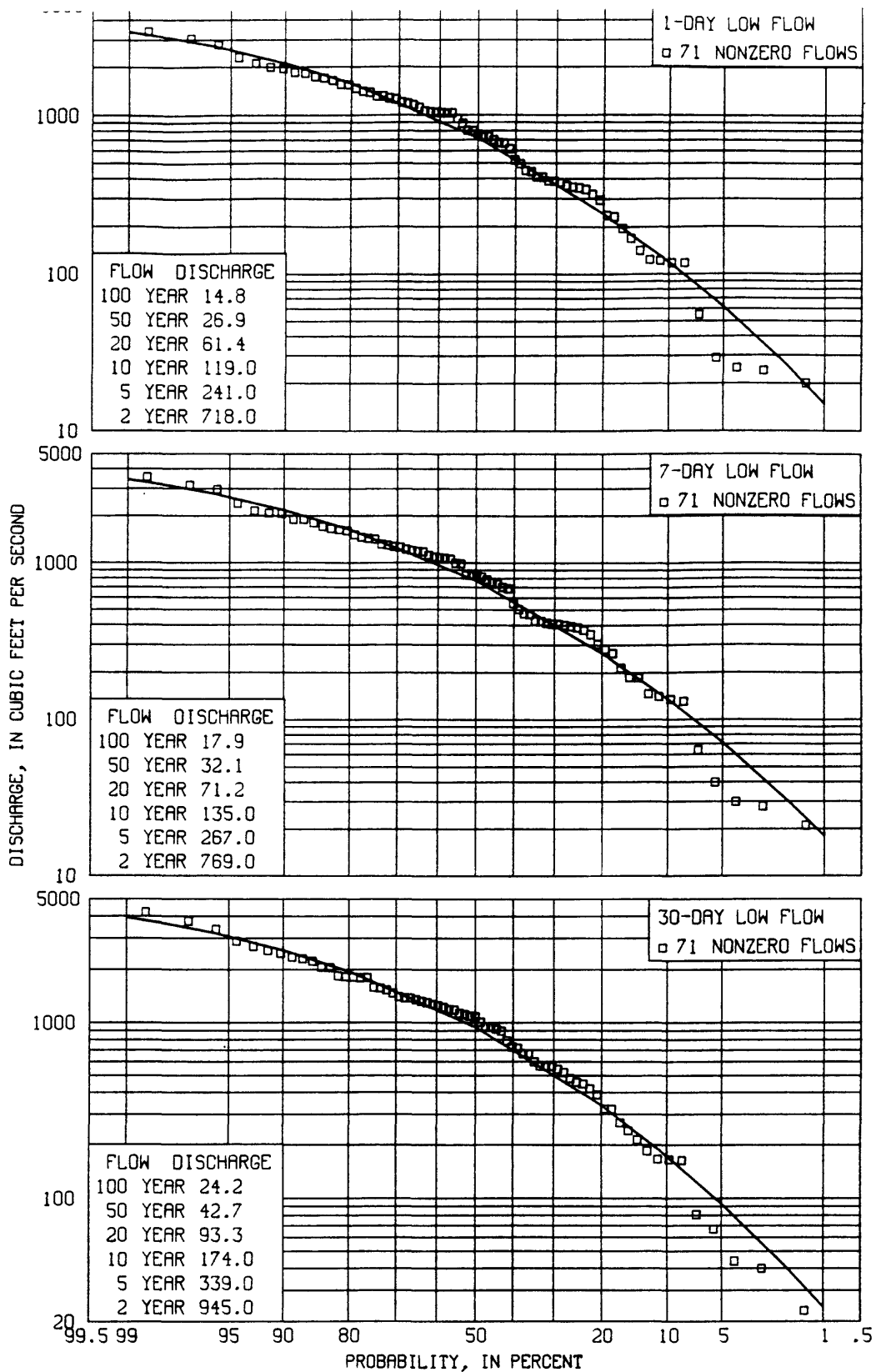
STATION 5095500 TWO RIVERS BELOW HALLOCK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



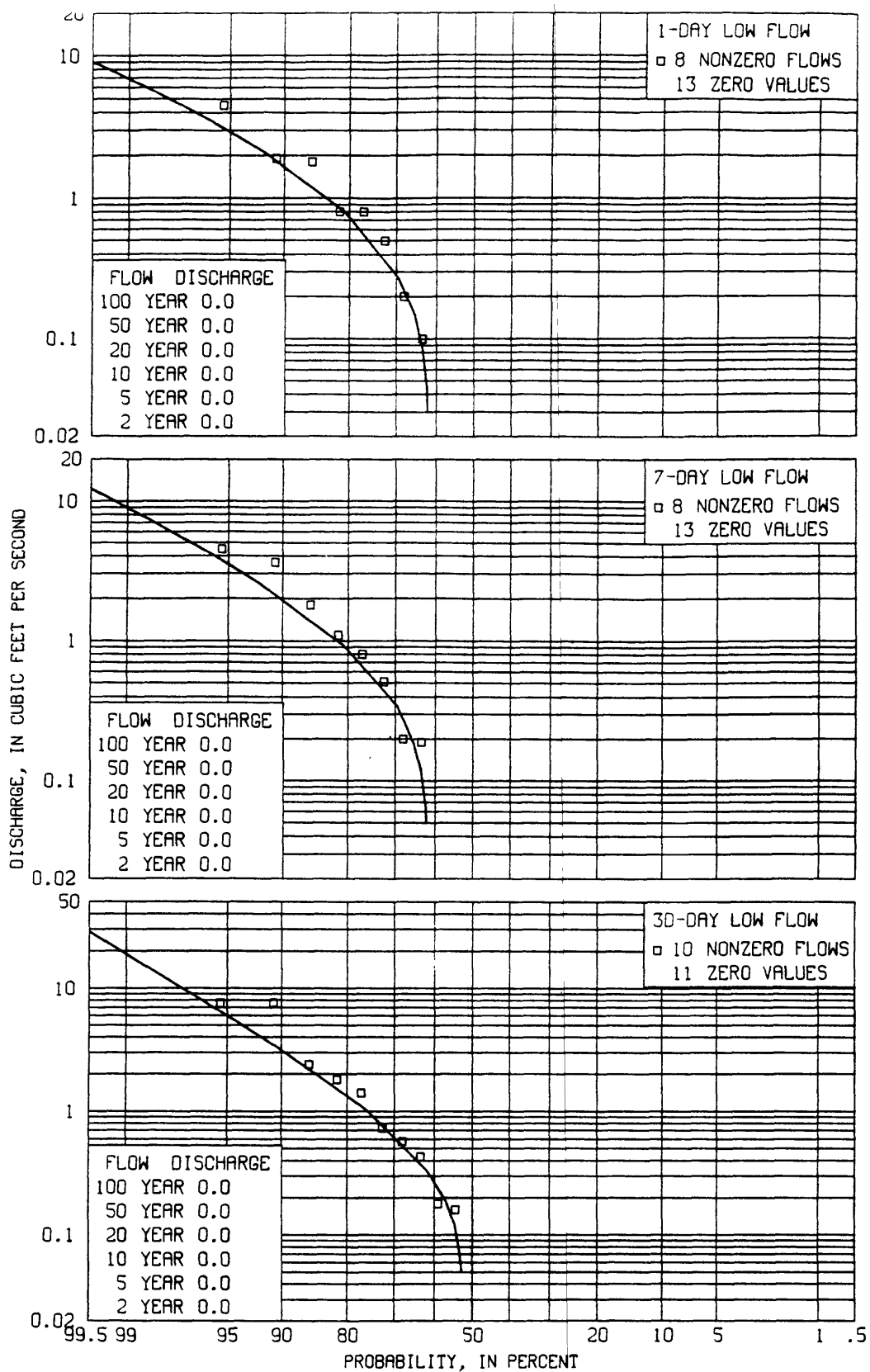
STATION 5096000 NORTH BRANCH TWO RIVERS NEAR LANCASTER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



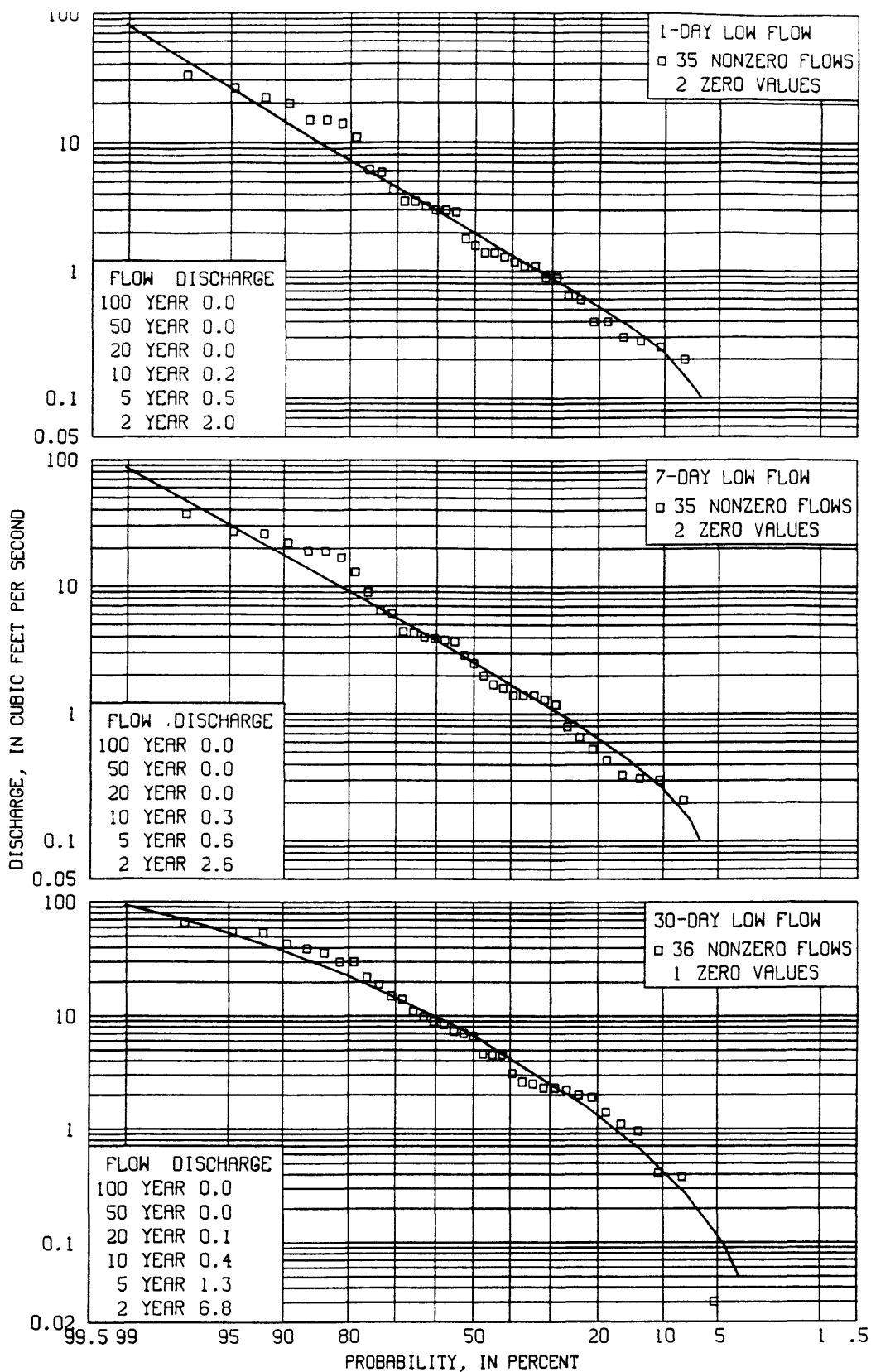
STATION 5096500 STATE DITCH #85 NEAR LANCASTER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



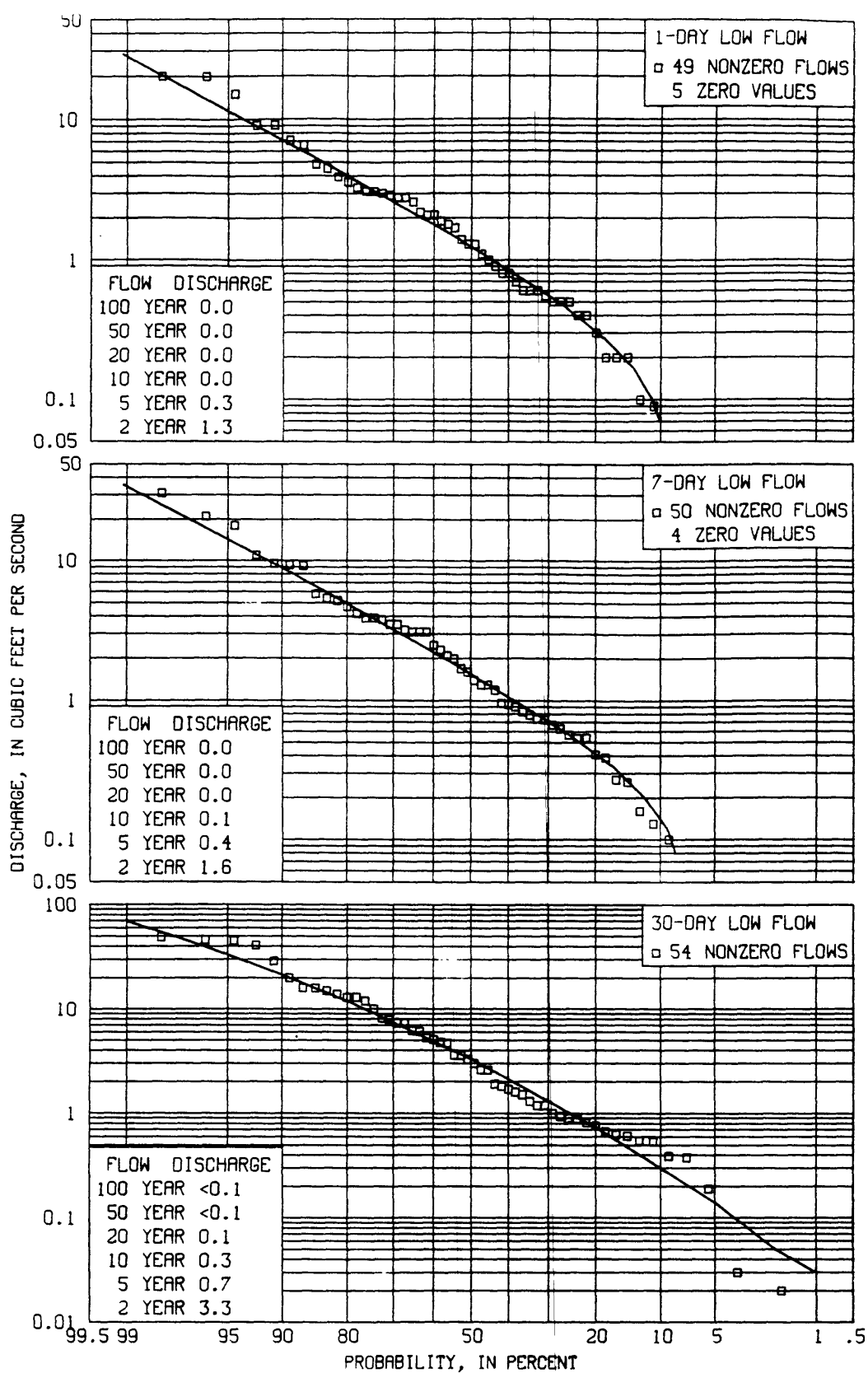
STATION 5102500 RED RIVER OF THE NORTH AT EMERSON, MANITOBA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



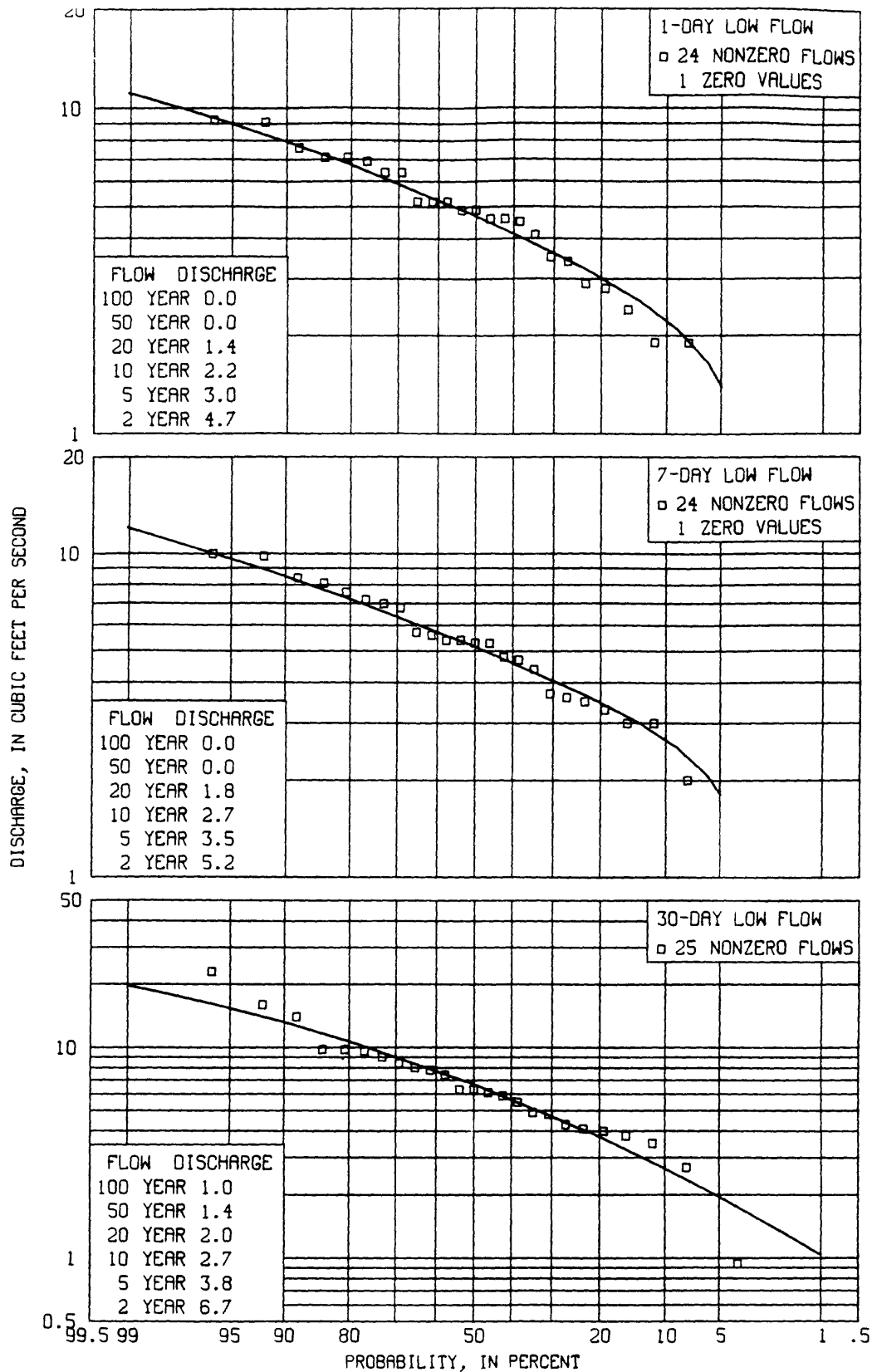
STATION 5104000 SOUTH FORK ROSEAU RIVER NEAR MALUNG
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



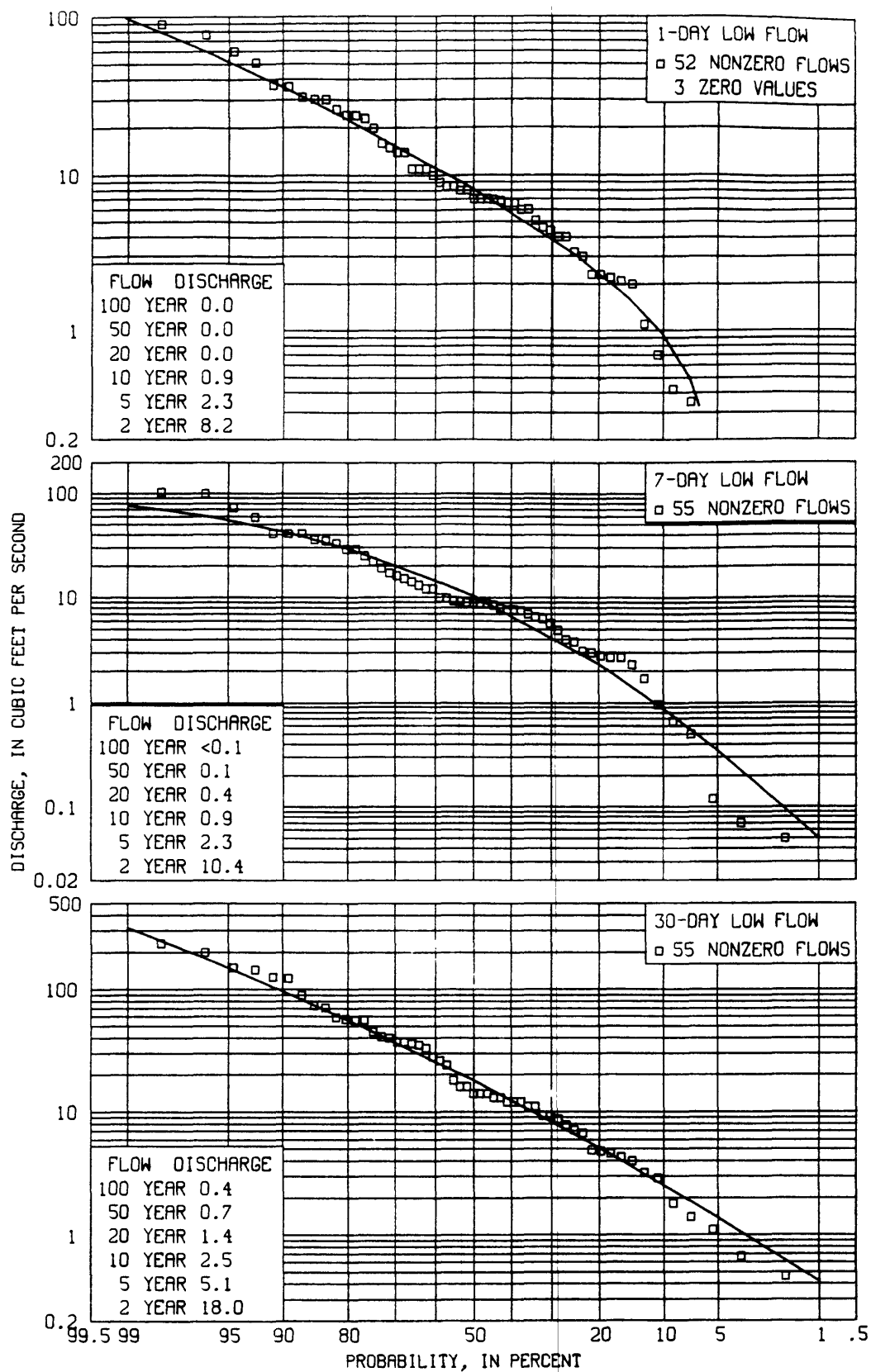
STATION 5104500 ROSEAU RIVER BELOW SOUTH FORK NEAR MALUNG
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



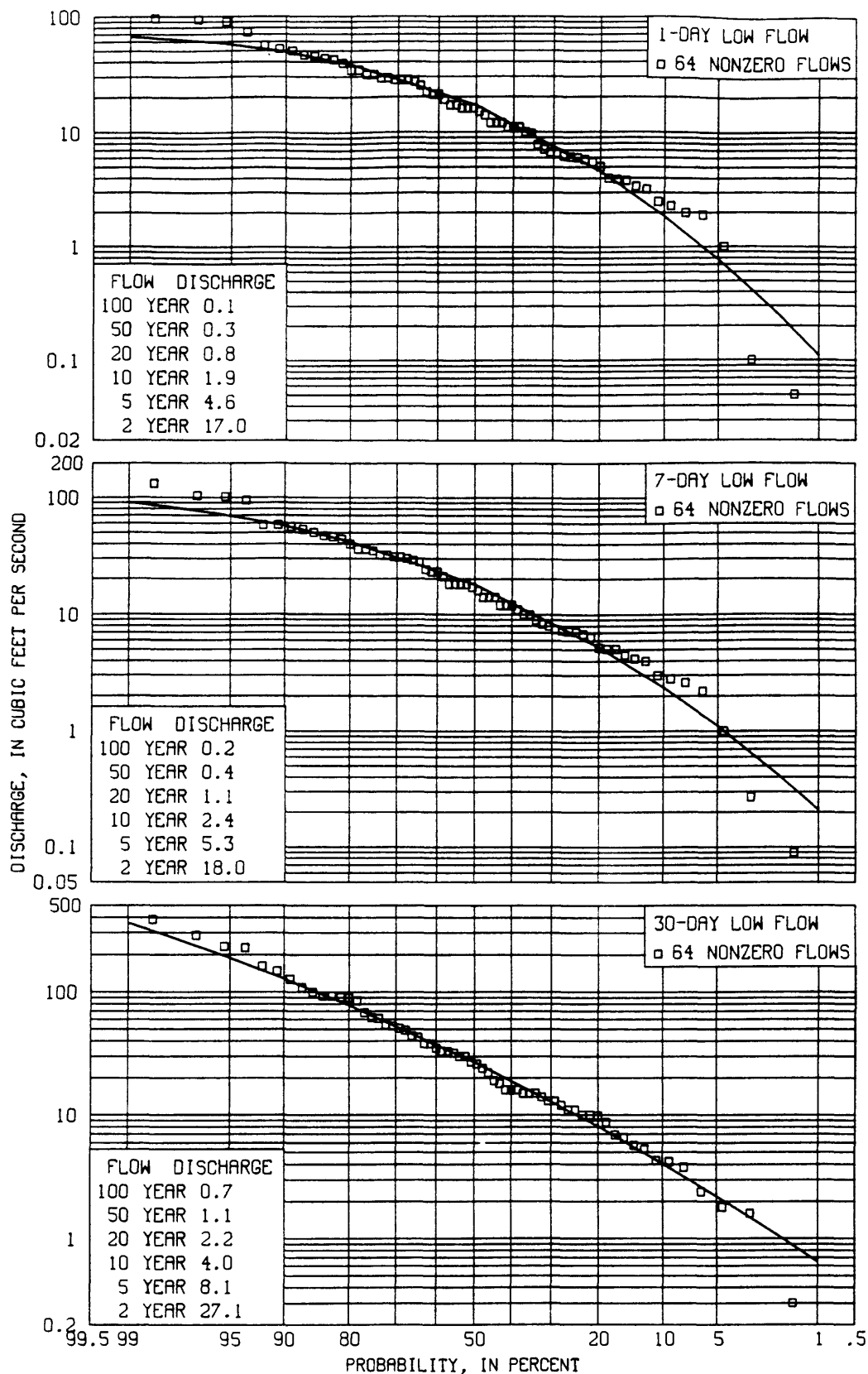
STATION 5106000 SPRAGUE CREEK NEAR SPRAGUE, MANITOBA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



STATION 5107000 PINE CREEK NEAR PINE CREEK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30

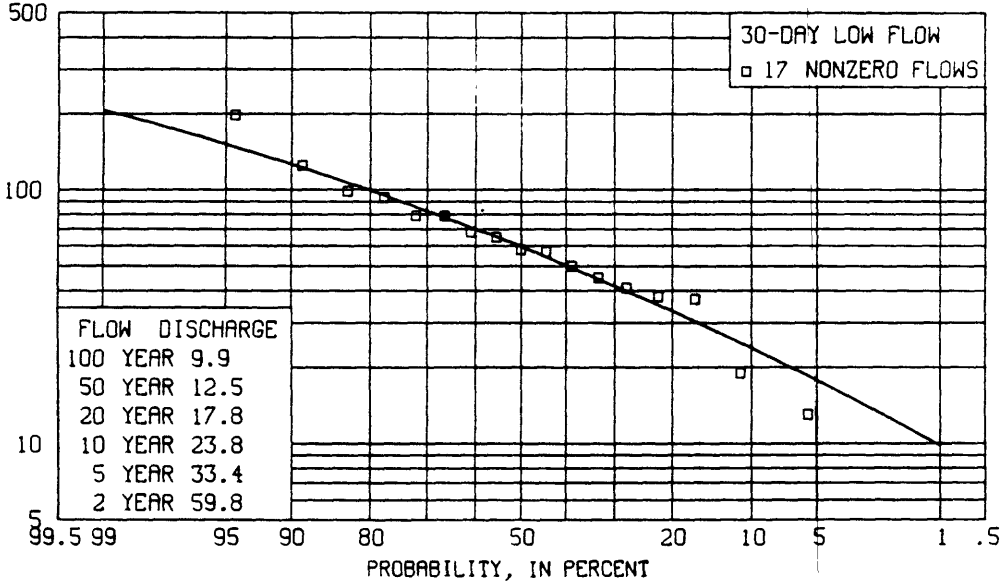
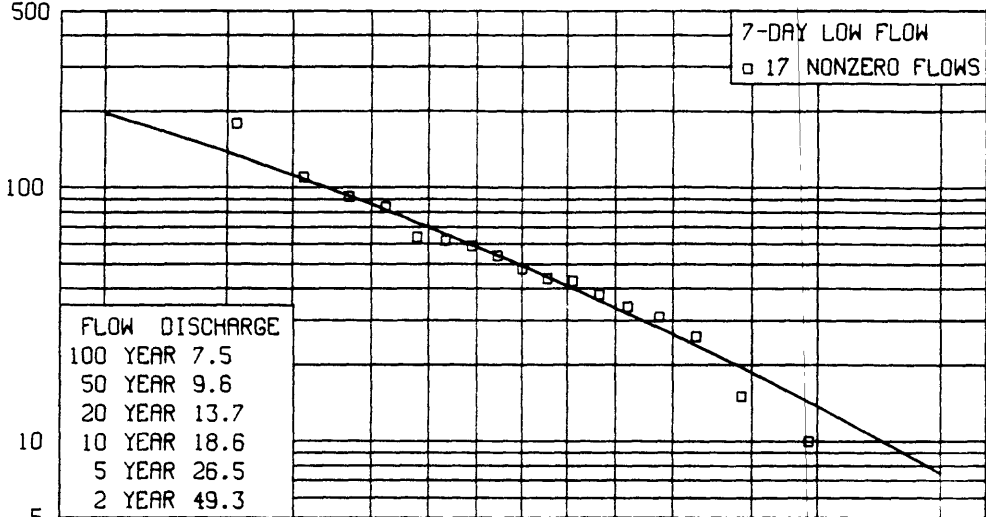
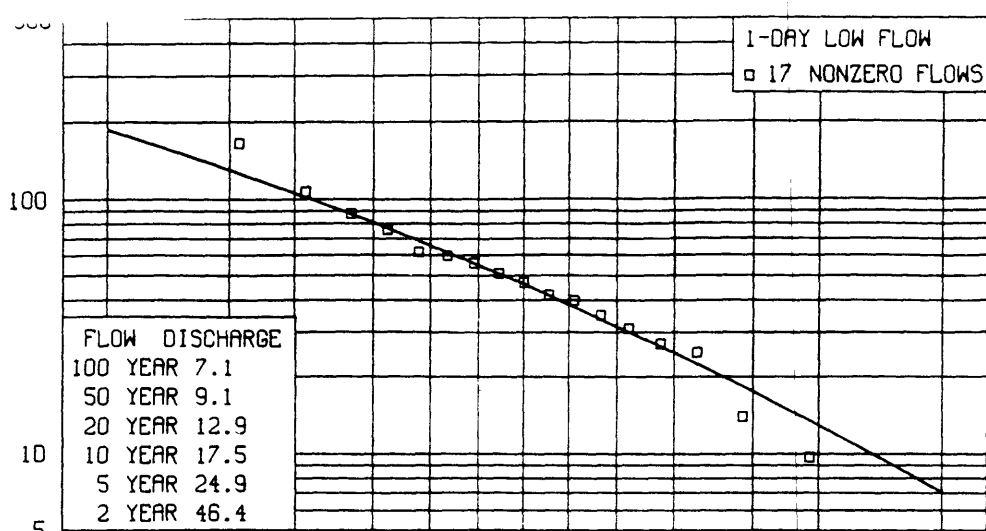


STATION 5107500 ROSEAU RIVER AT ROSS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30

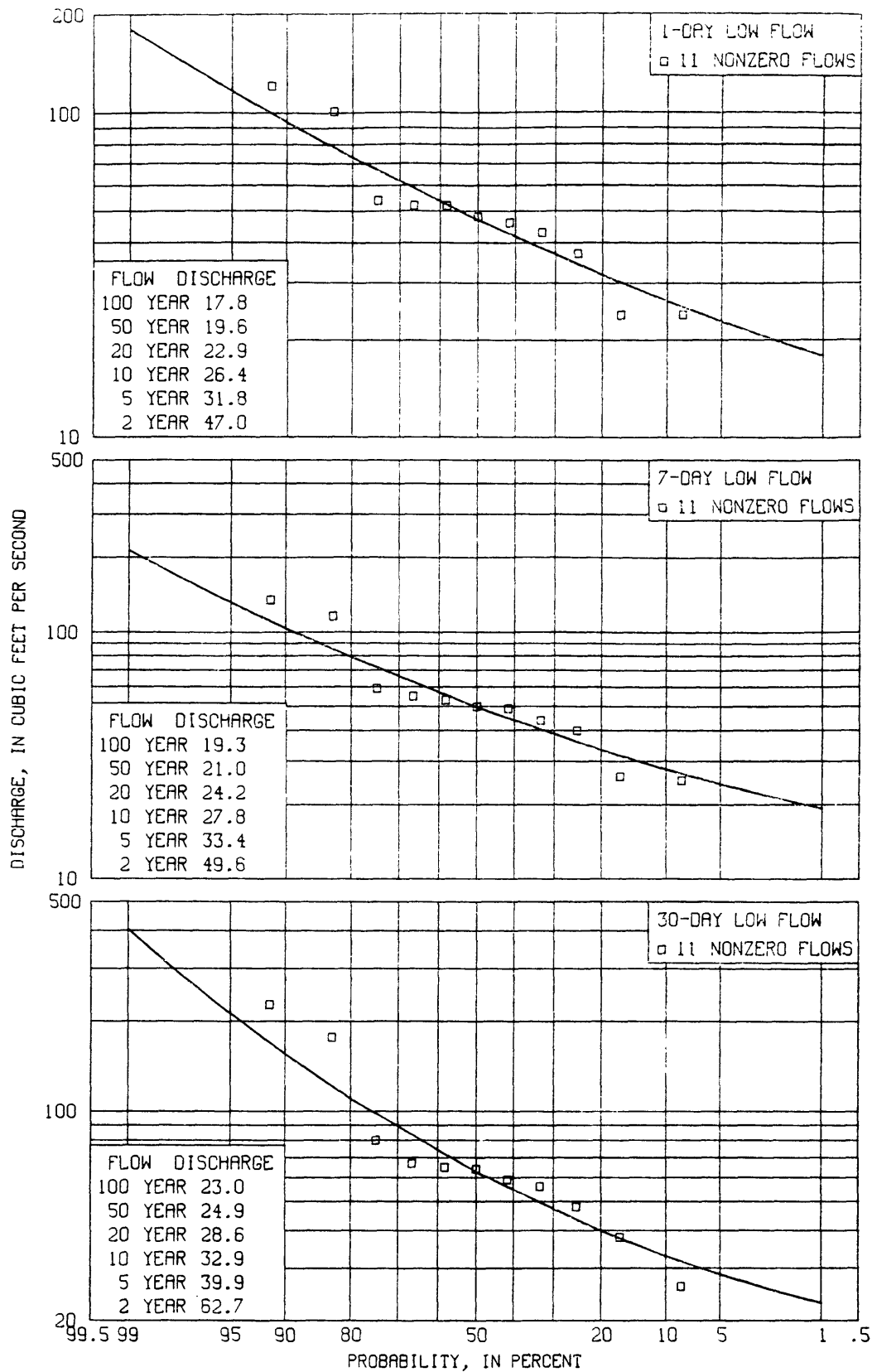


STATION 5112000 ROSEAU RIVER BELOW STATE DITCH 51 NEAR CARIBOU
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30

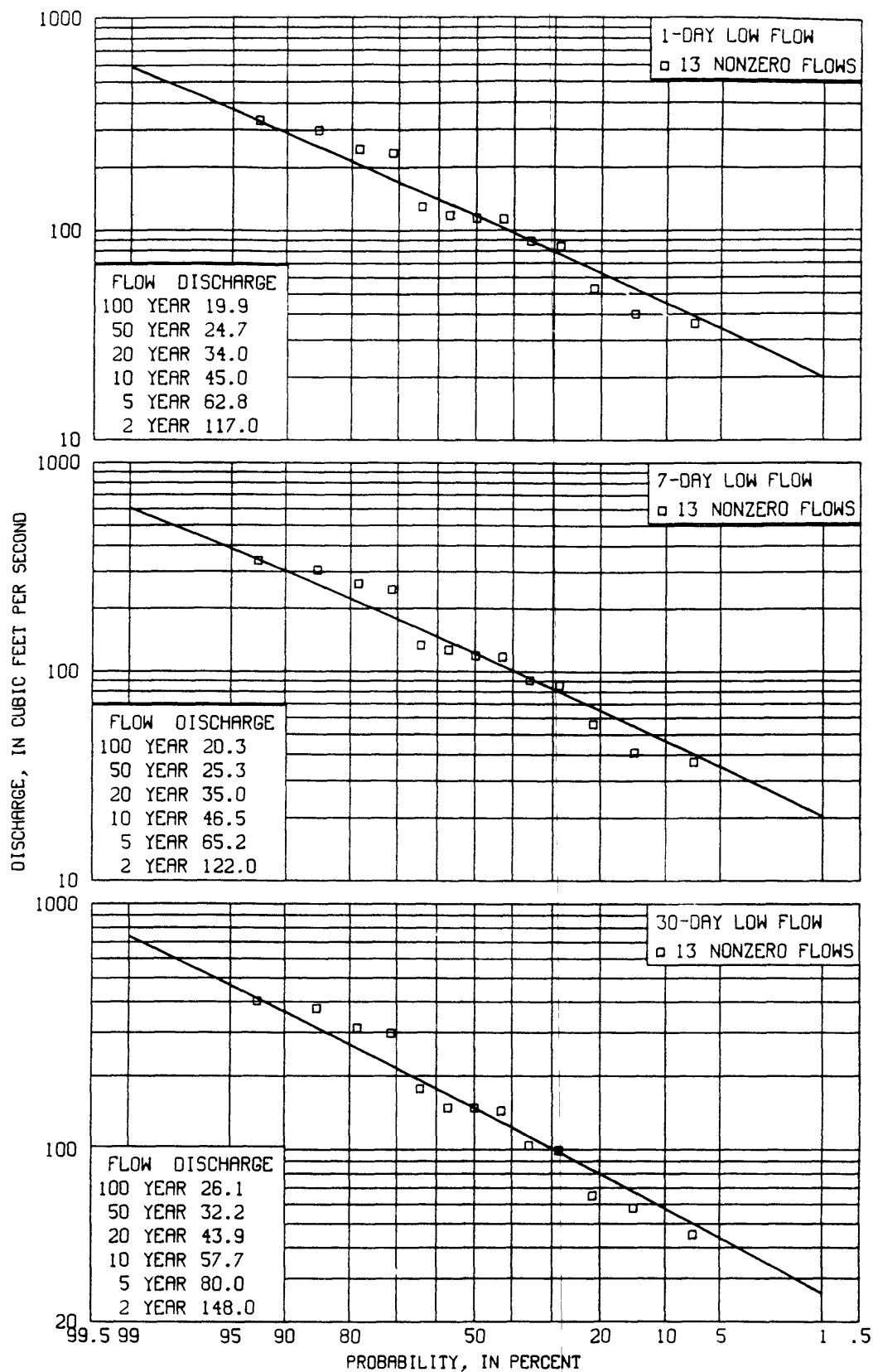
DISCHARGE, IN CUBIC FEET PER SECOND



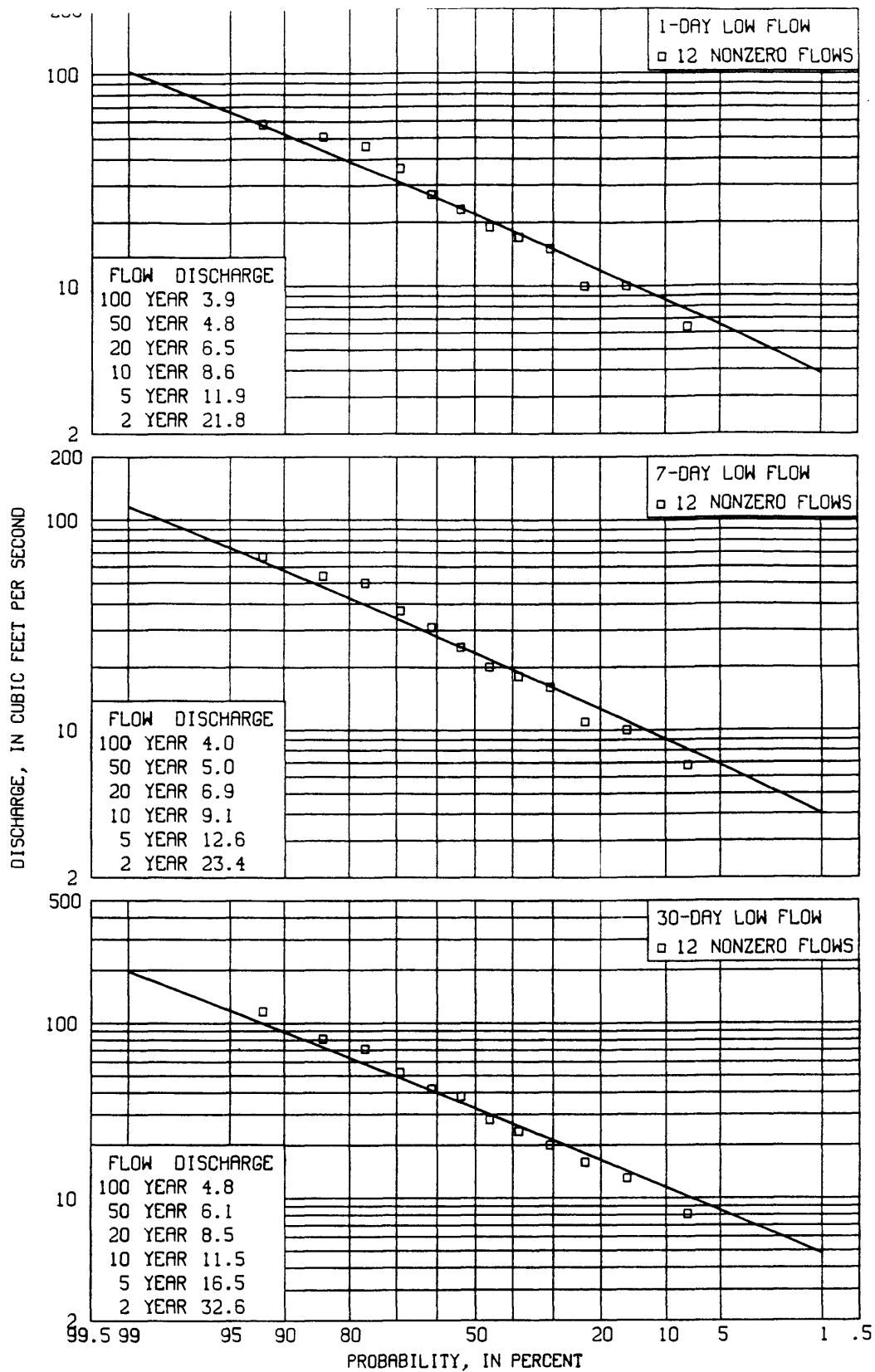
STATION 5124480 KAWISHIWI RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



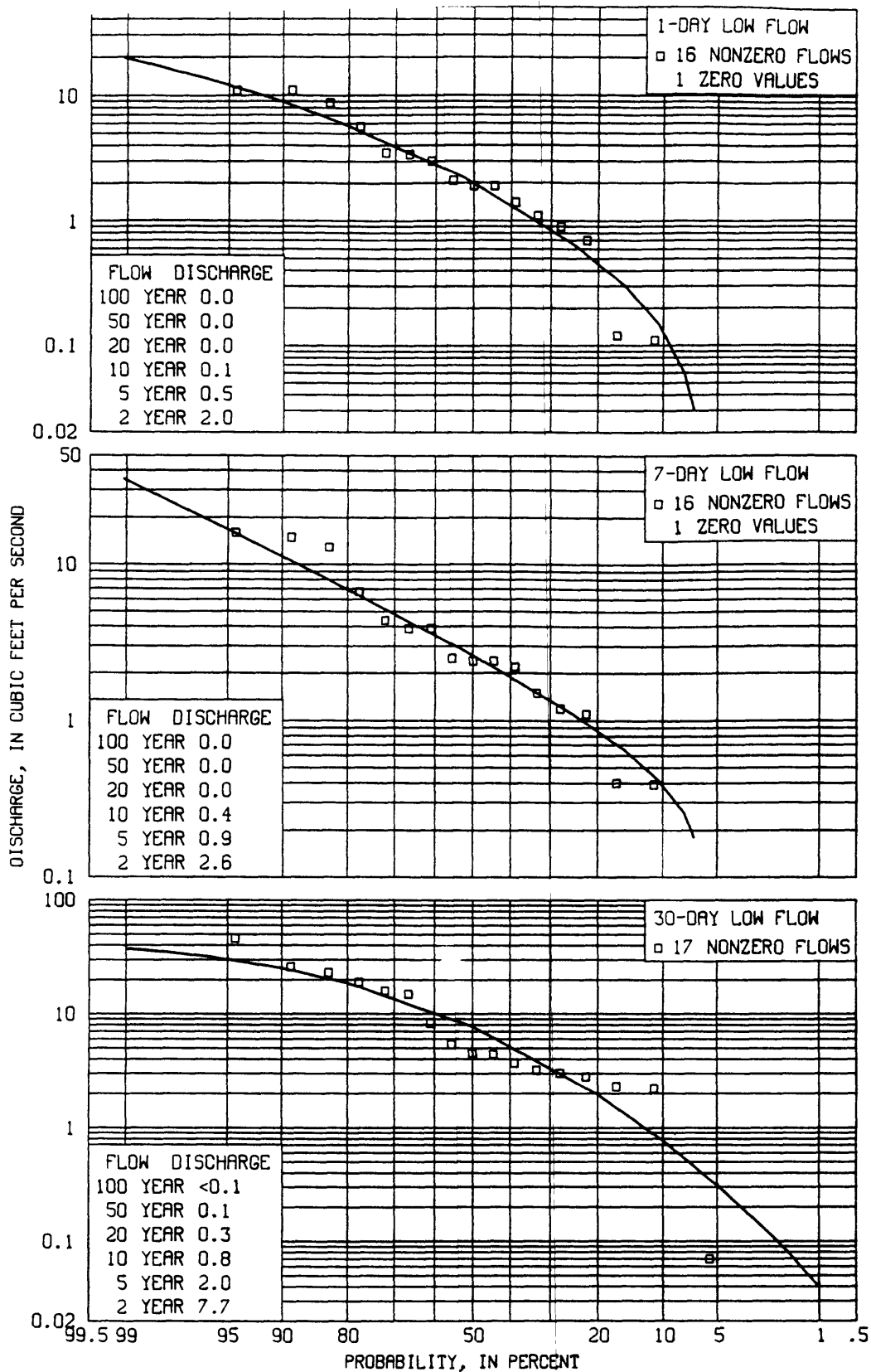
STATION 5124500 ISABELLA RIVER NEAR ISABELLA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



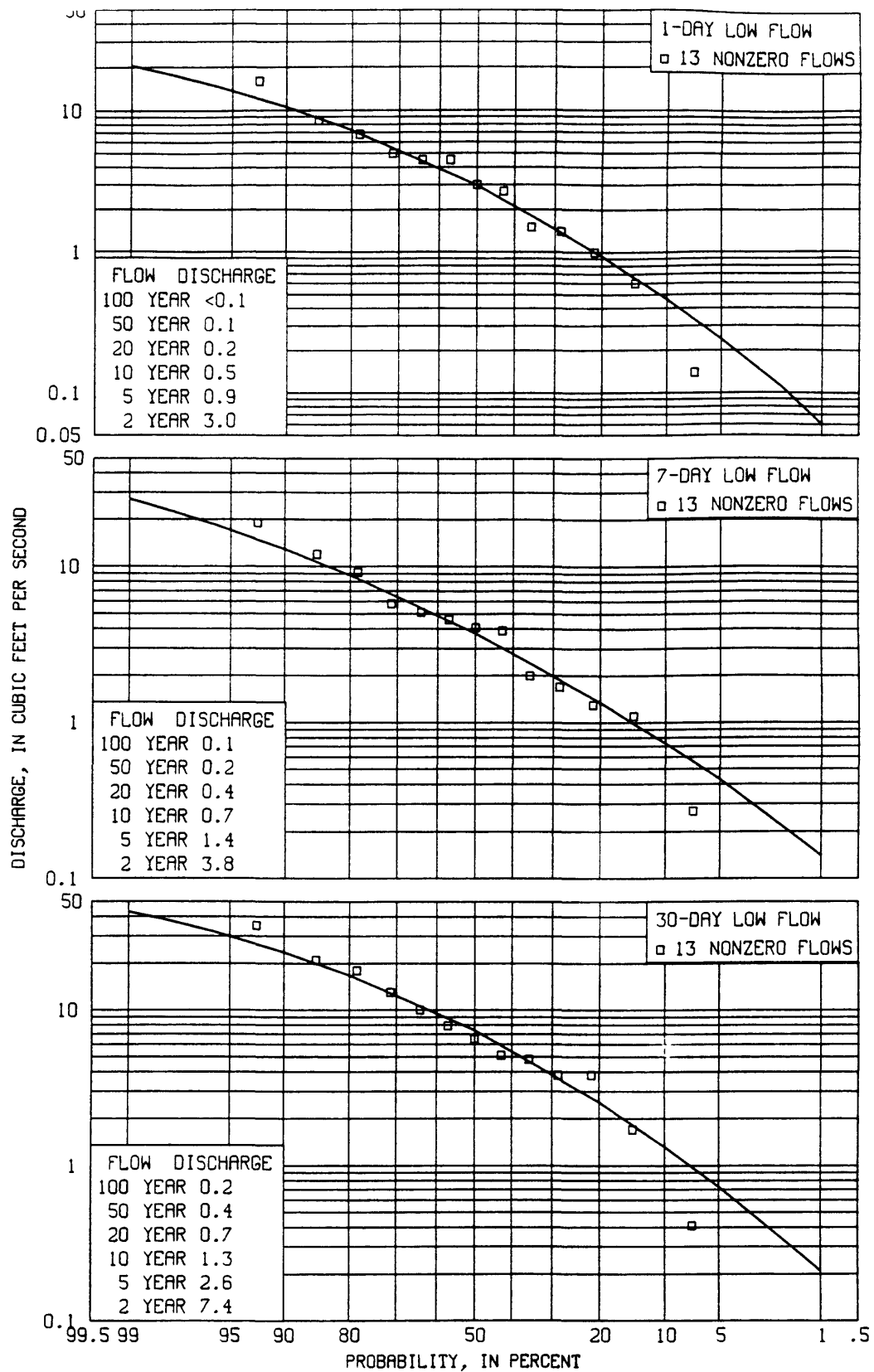
STATION 5125000 SOUTH KAWISHIWI RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



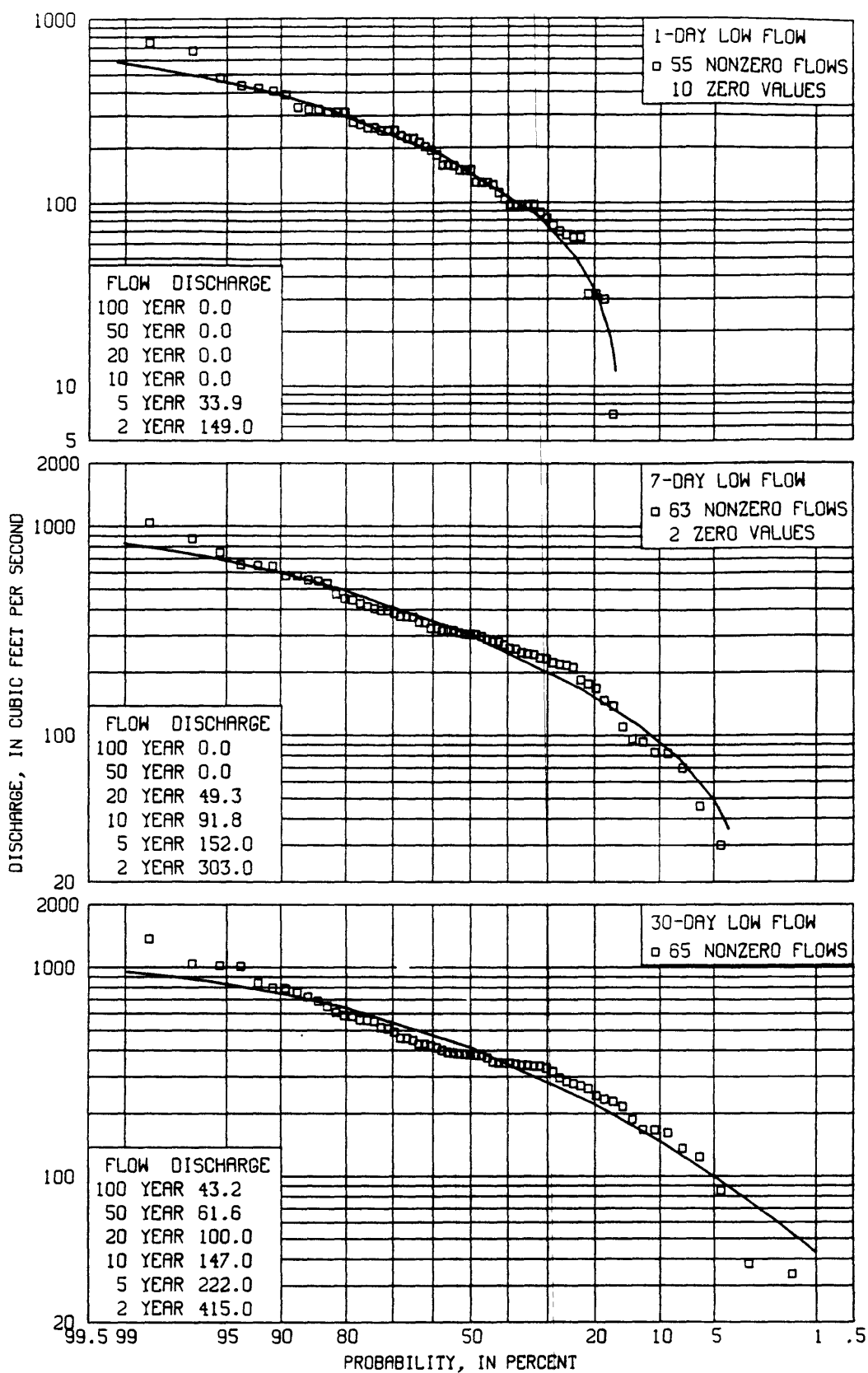
STATION 5125500 STONY RIVER NEAR ISABELLA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



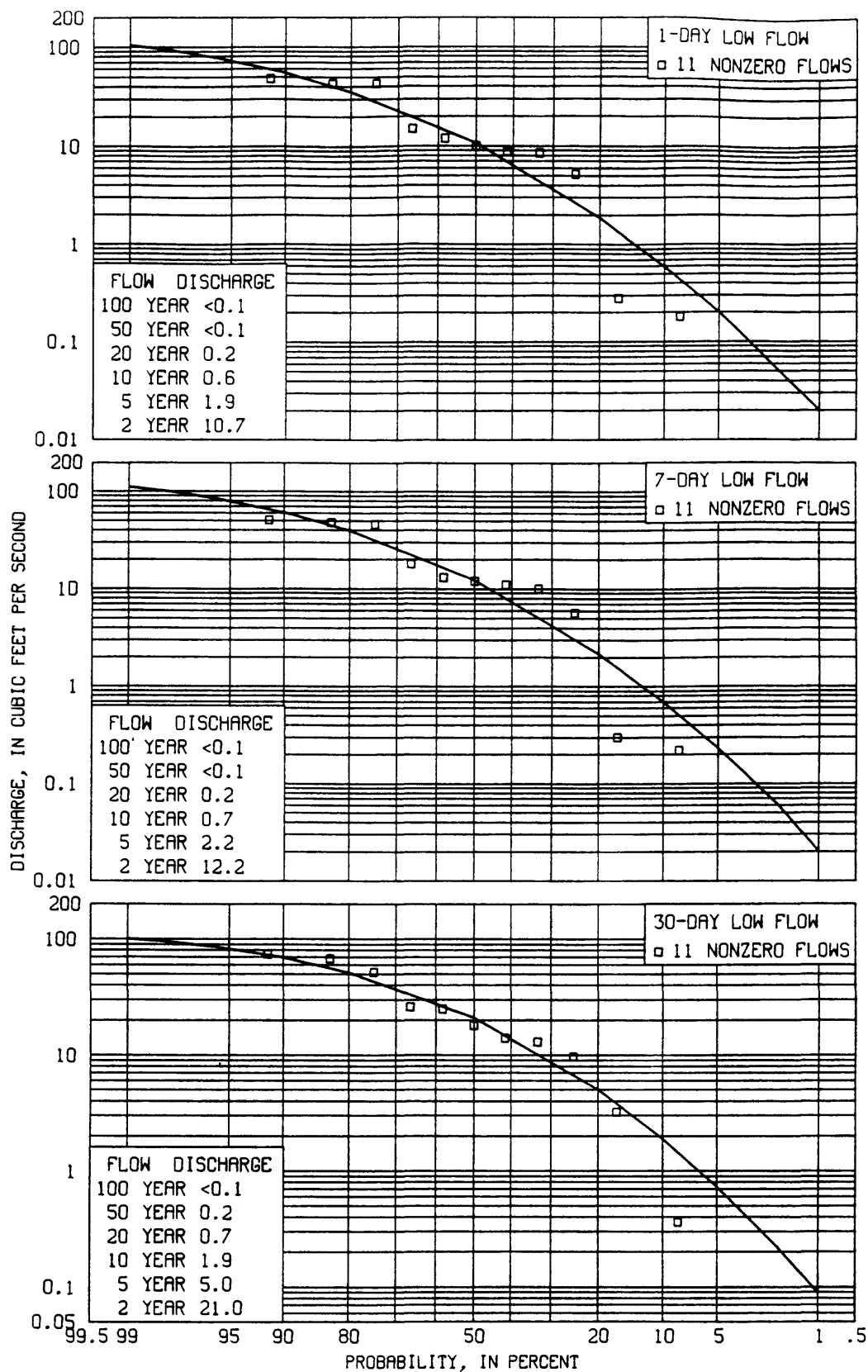
STATION 5126000 DUNKA RIVER NEAR BABBITT
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



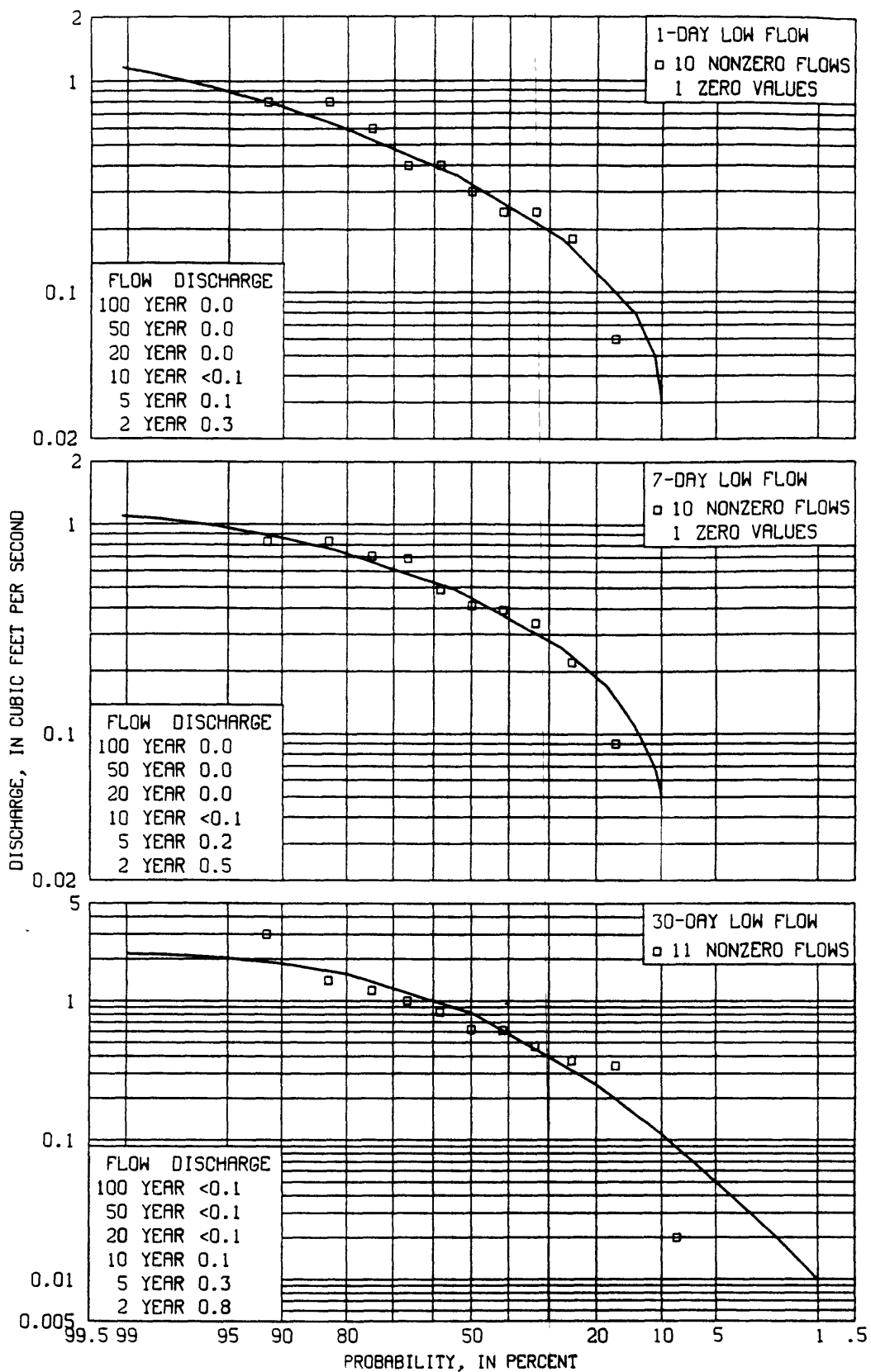
STATION 5126500 BEAR ISLAND RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



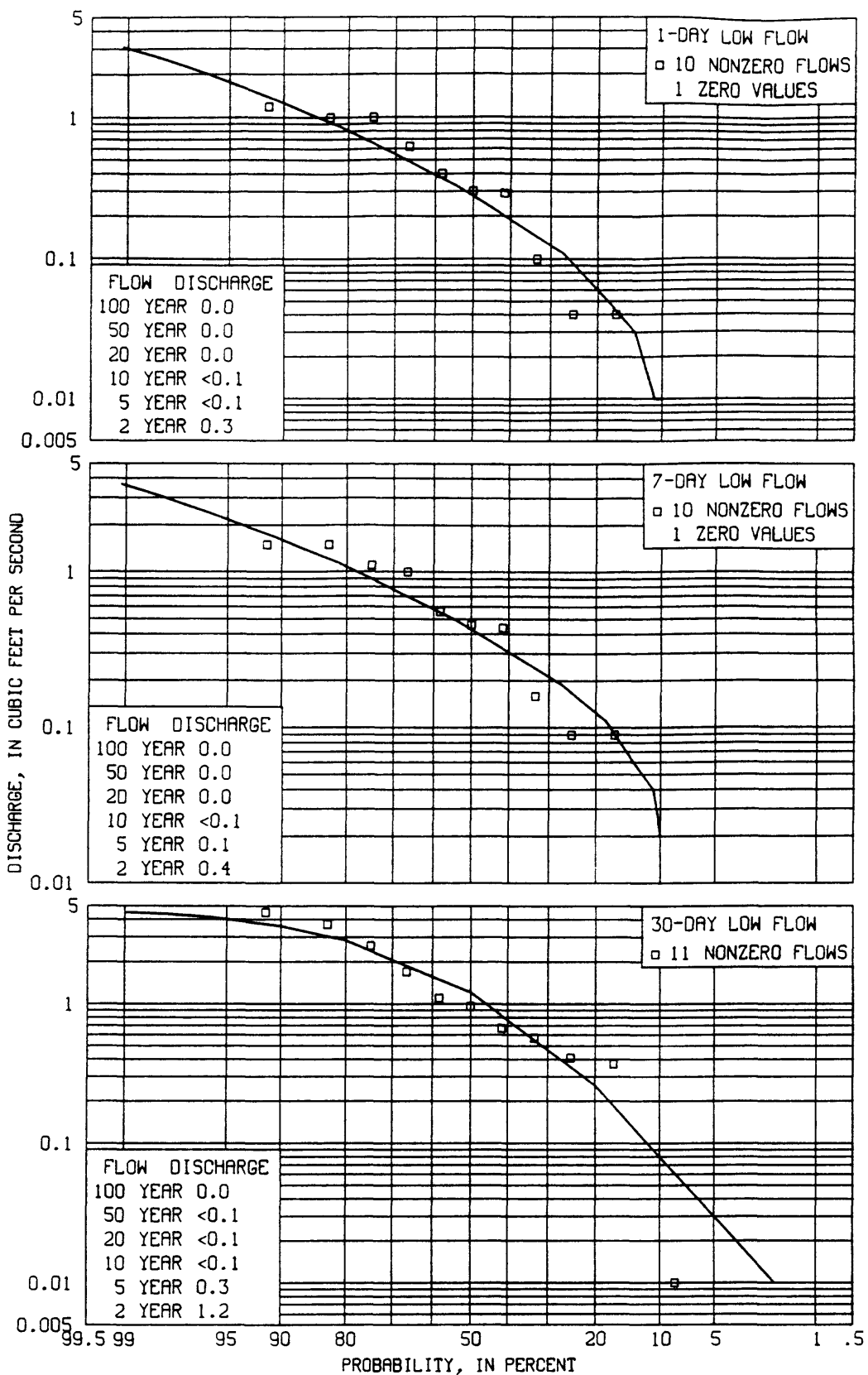
STATION 5127000 KAWISHIWI RIVER NEAR WINTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



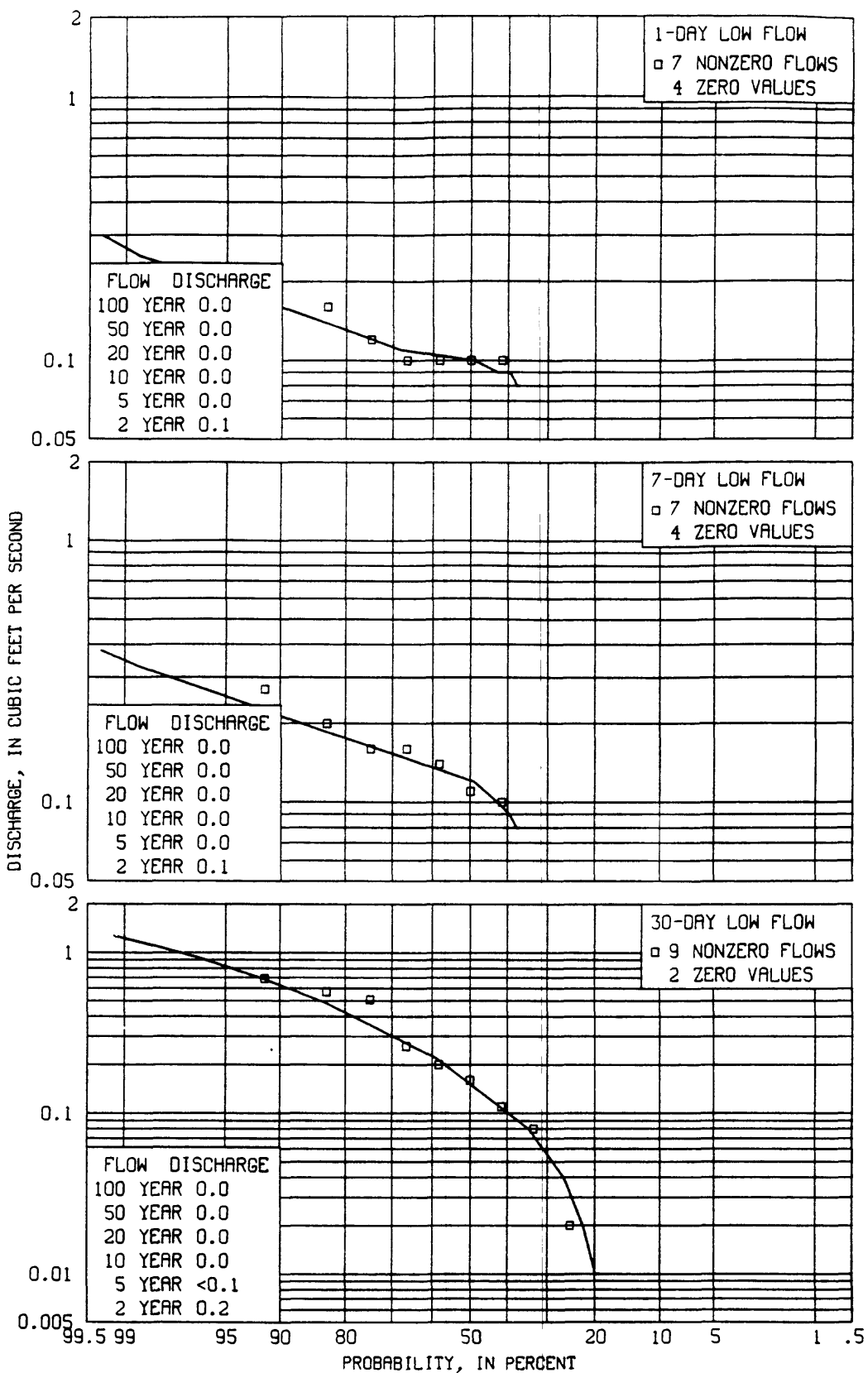
STATION 5127205 BURNTSIDE RIVER NEAR ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



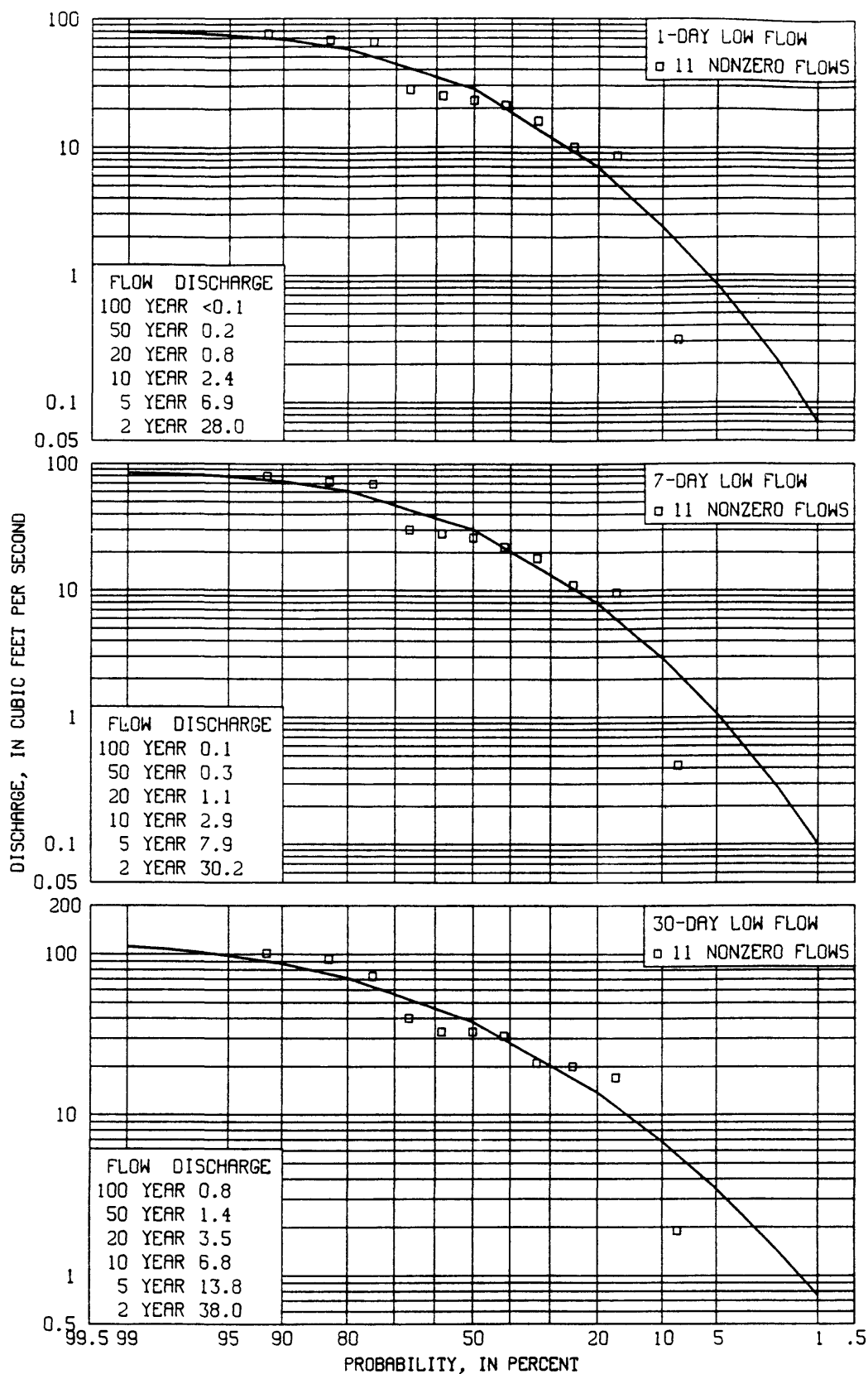
STATION 5127210 ARMSTRONG CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



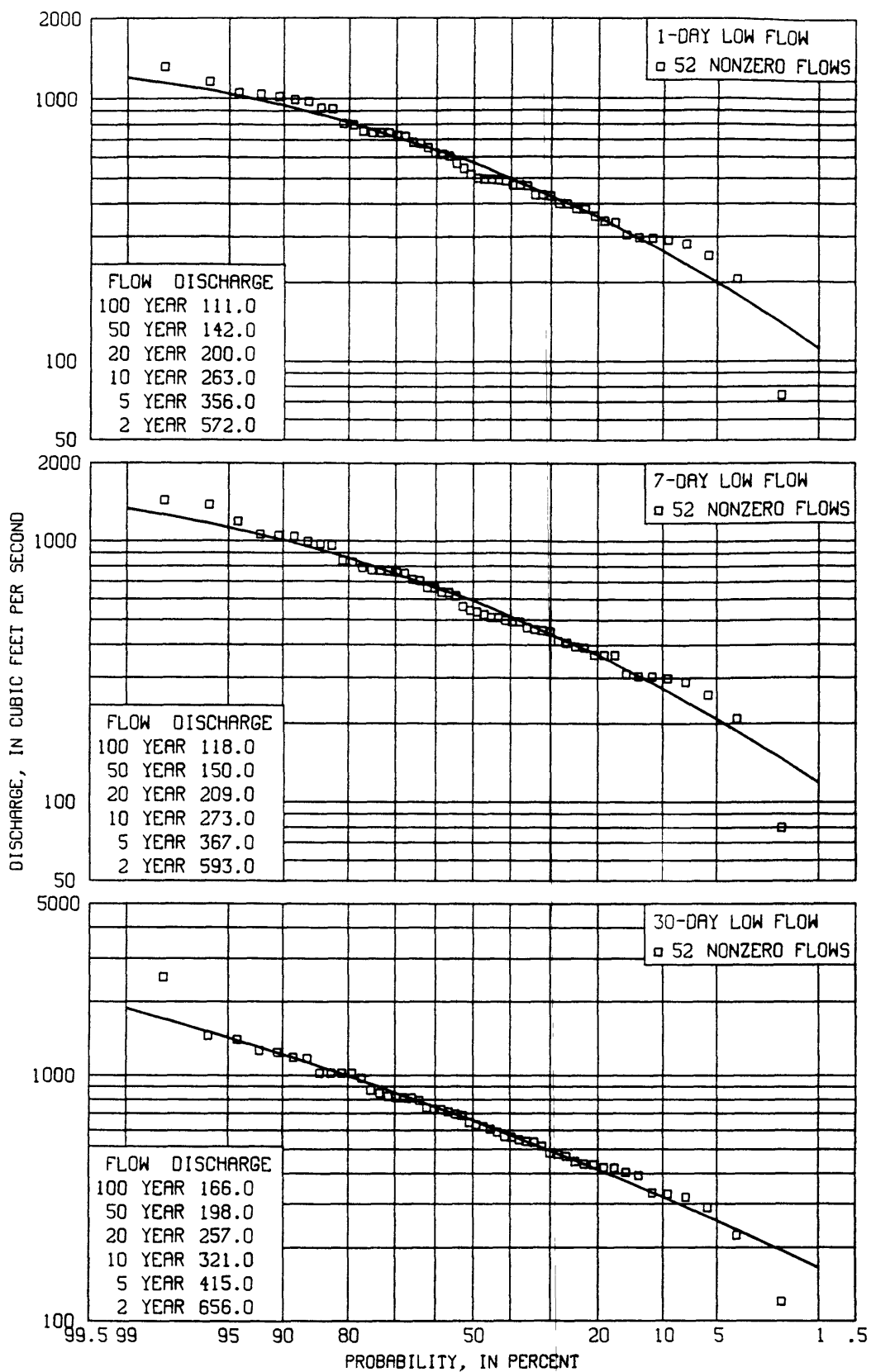
STATION 5127215 LONGSTORFF CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



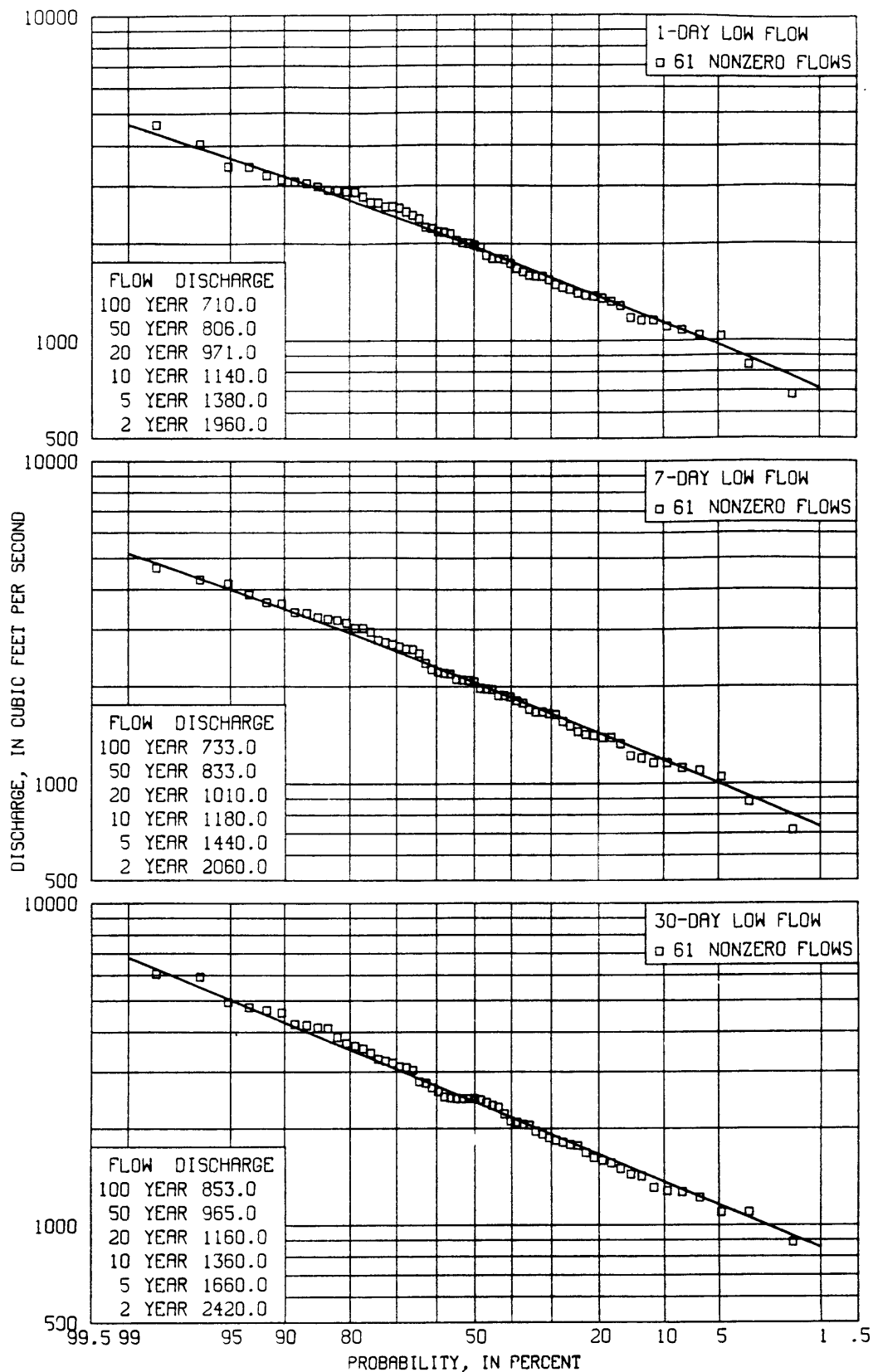
STATION 5127220 BURGO CREEK NEAR ELY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



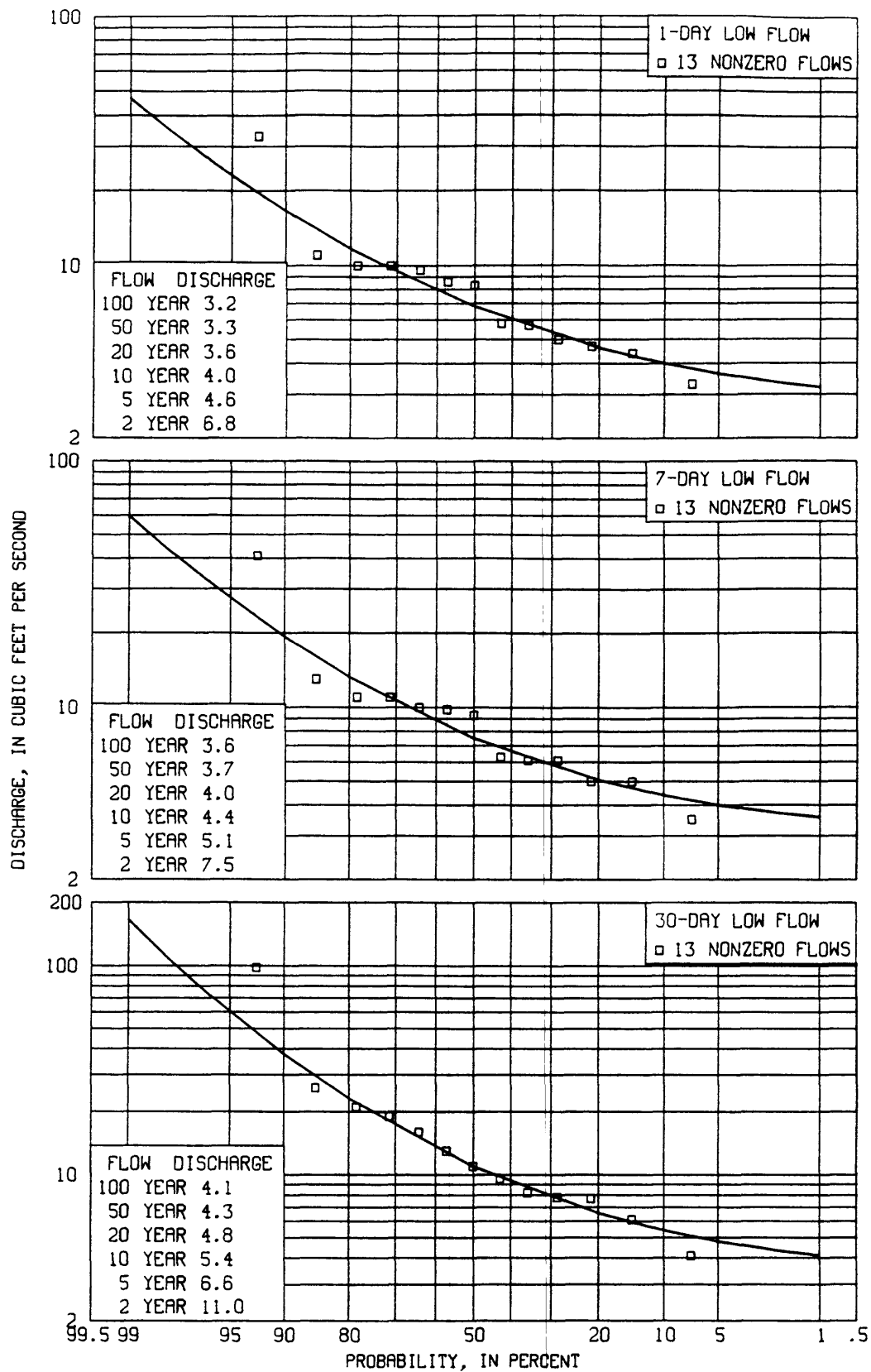
STATION 5127230 SHAGAWA RIVER AT ELY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



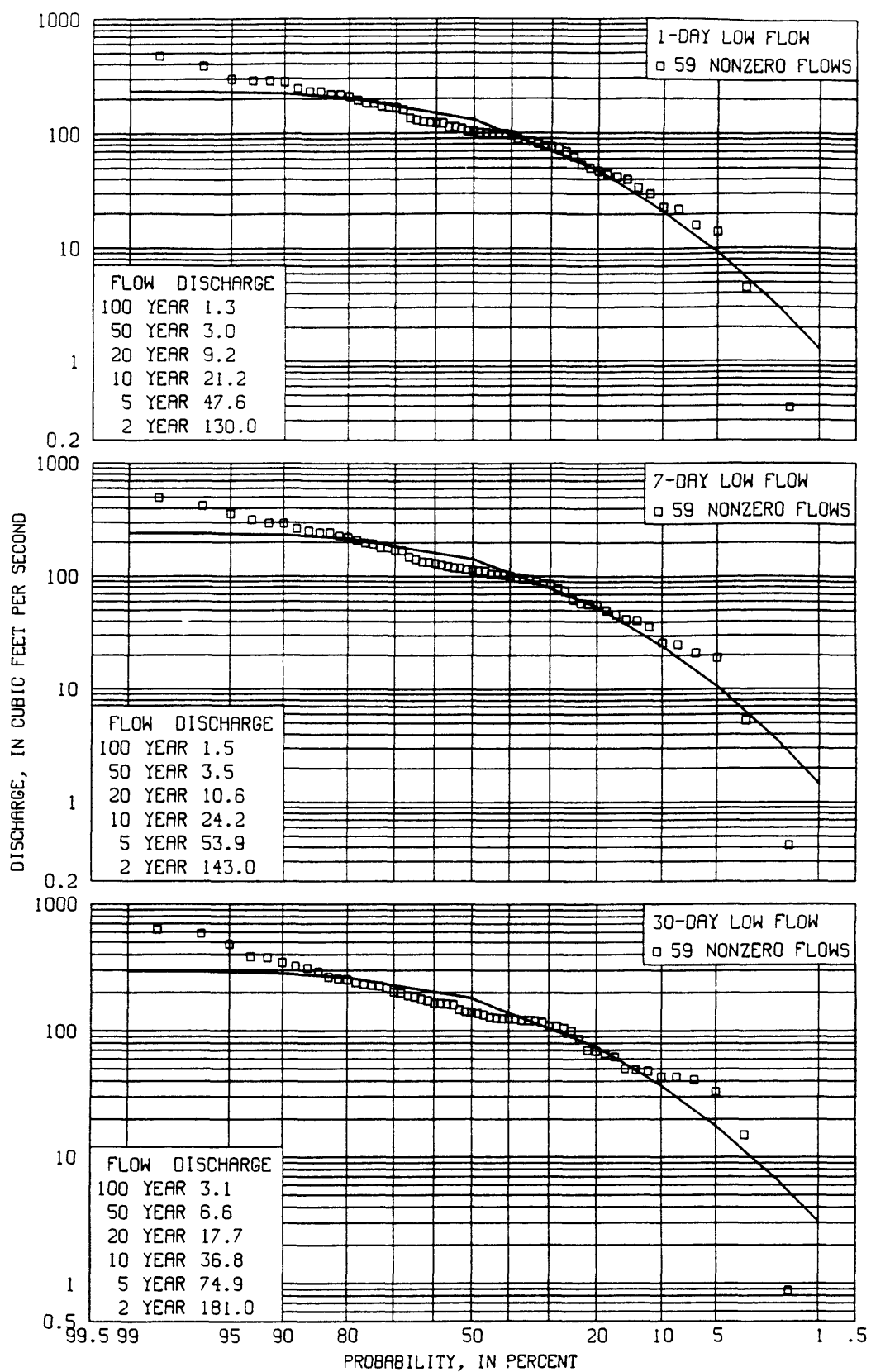
STATION 5127500 BASSWOOD RIVER NEAR WINTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



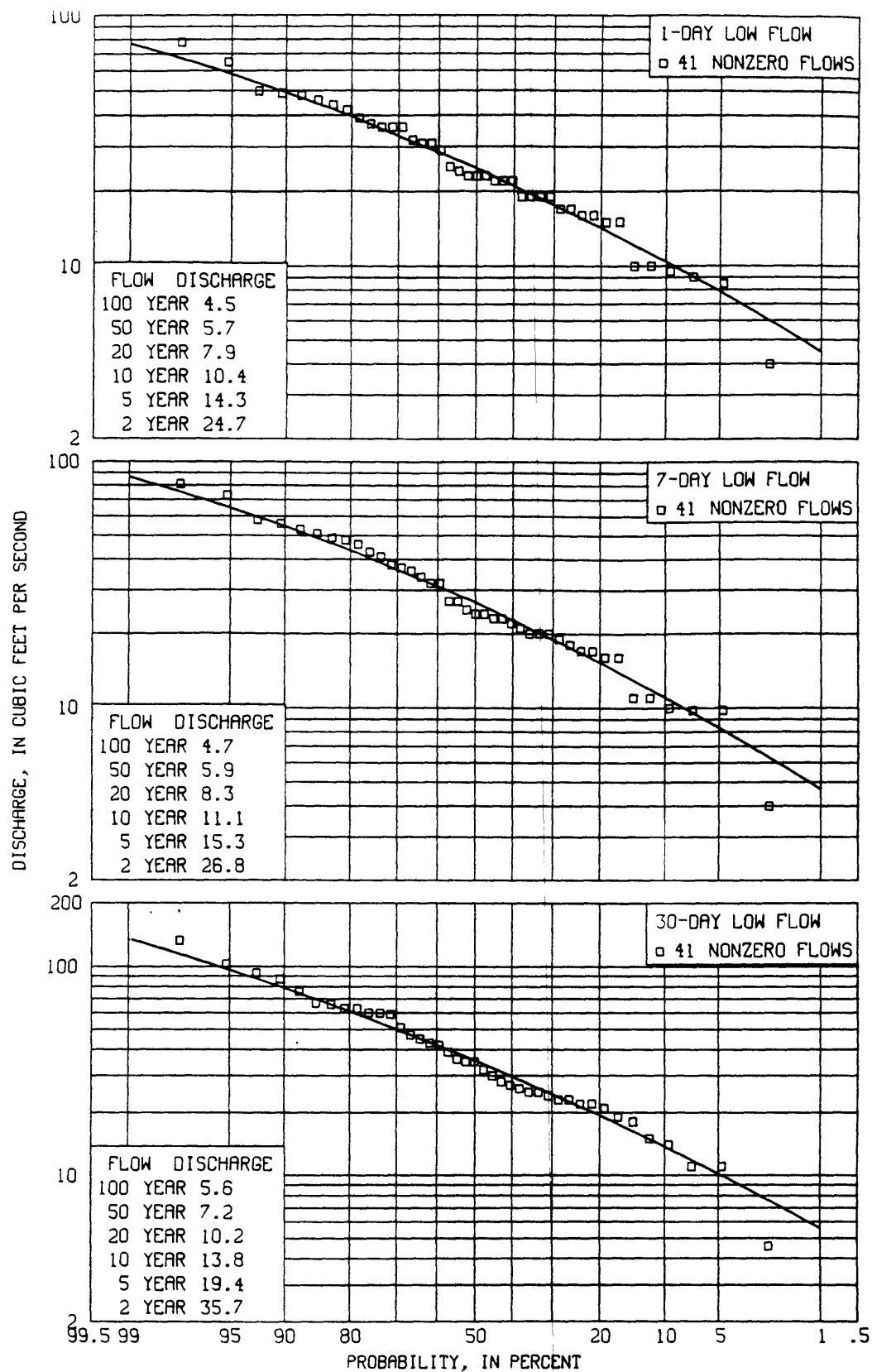
STATION 5128000 NAMAKAN R AT OUTLET OF LAC LA CROIX, ONTARIO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30 .



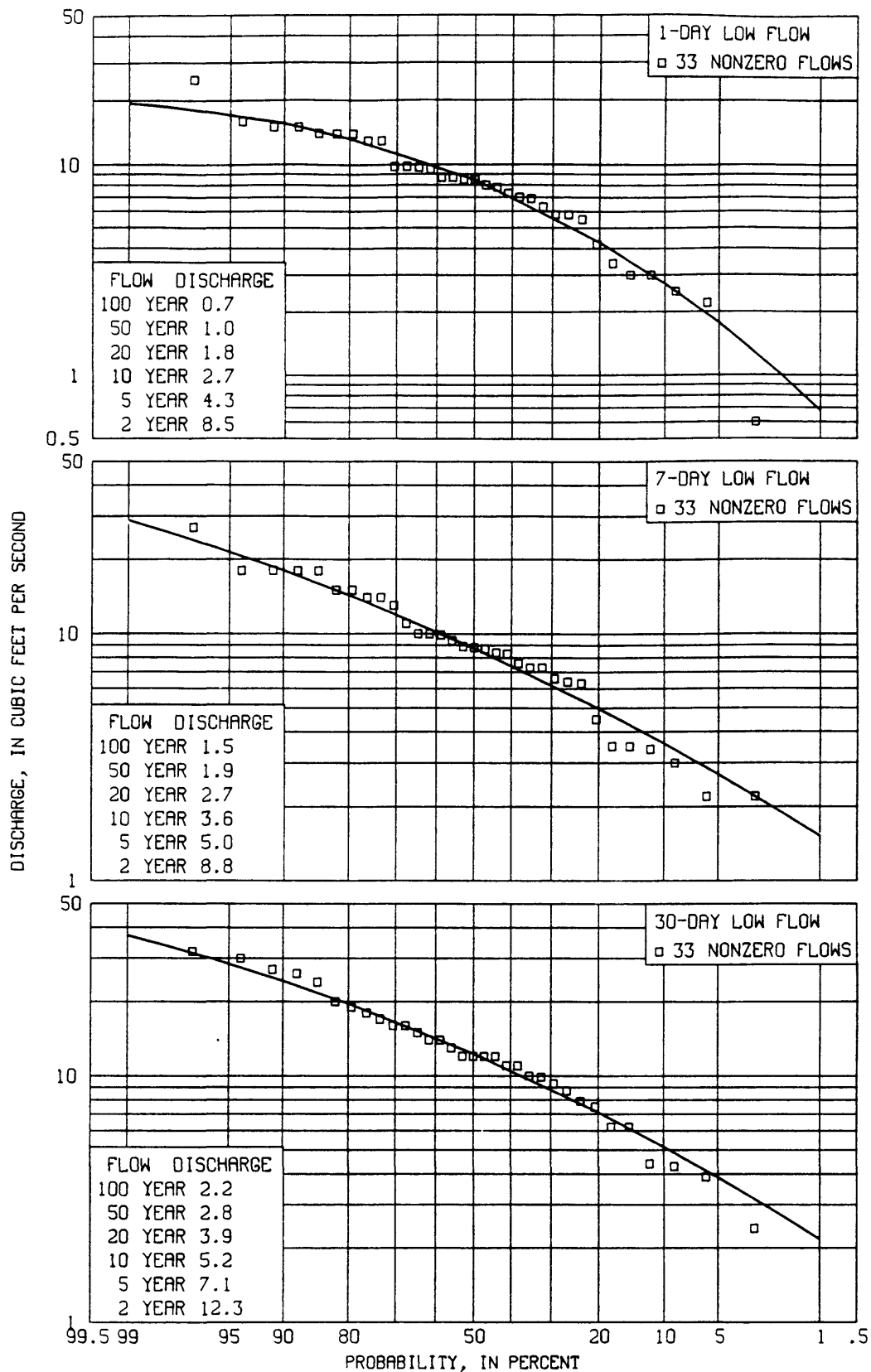
STATION 5128500 PIKE RIVER NEAR EMBARRASS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



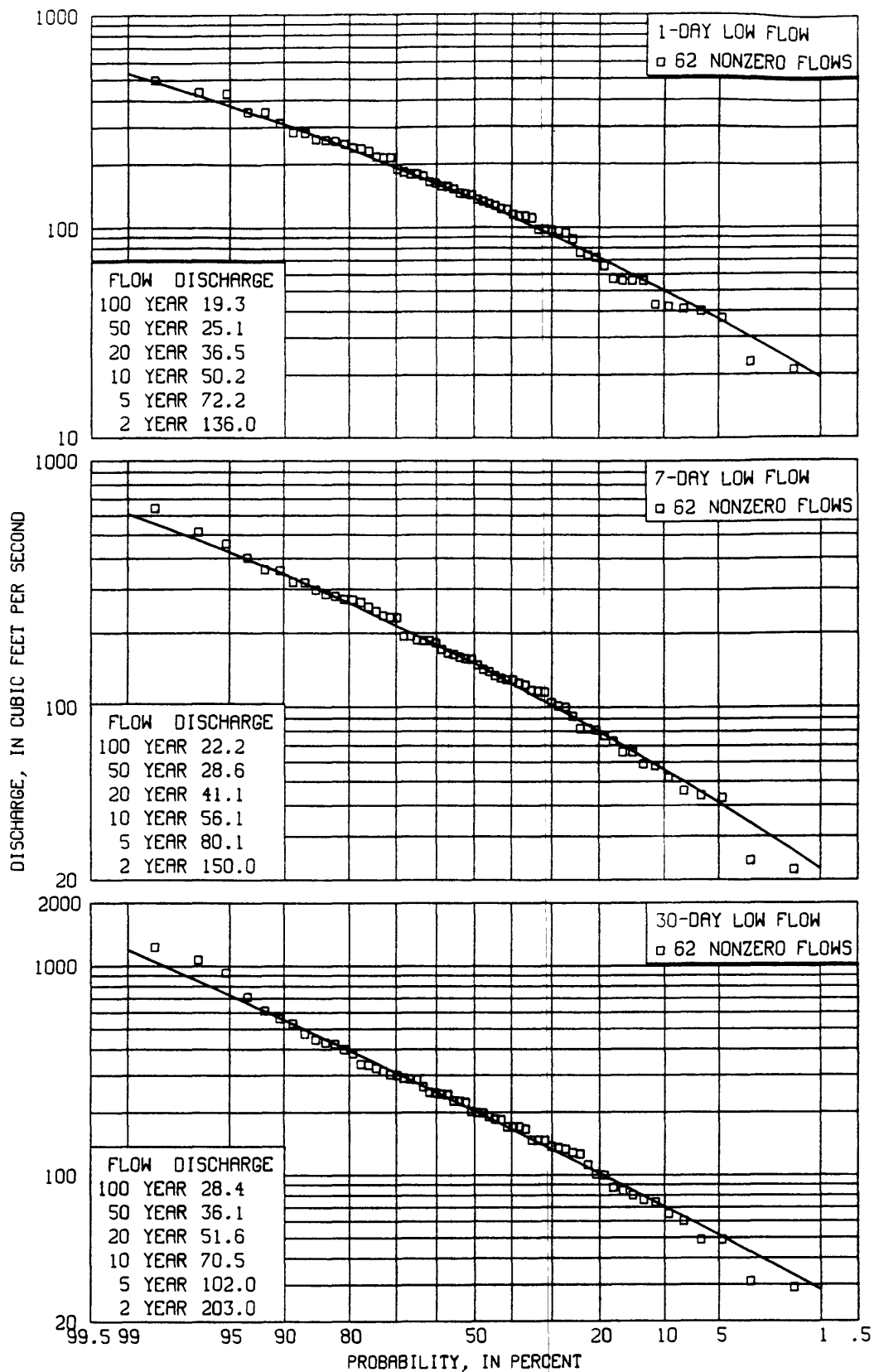
STATION 5129000 VERMILION RIVER BELOW VERMILION LAKE NEAR TOWER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



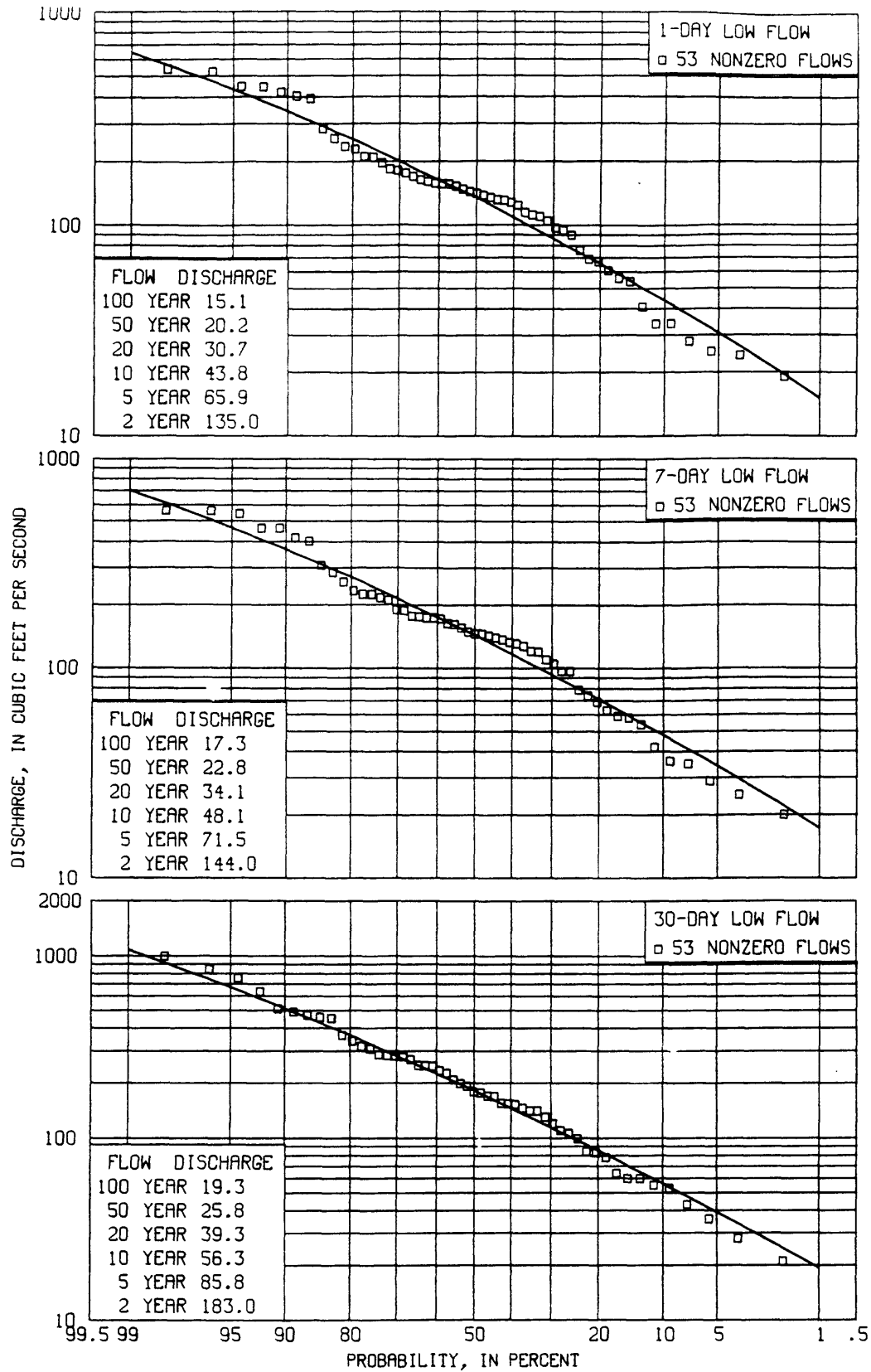
STATION 5130500 STURGEON RIVER NEAR CHISHOLM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



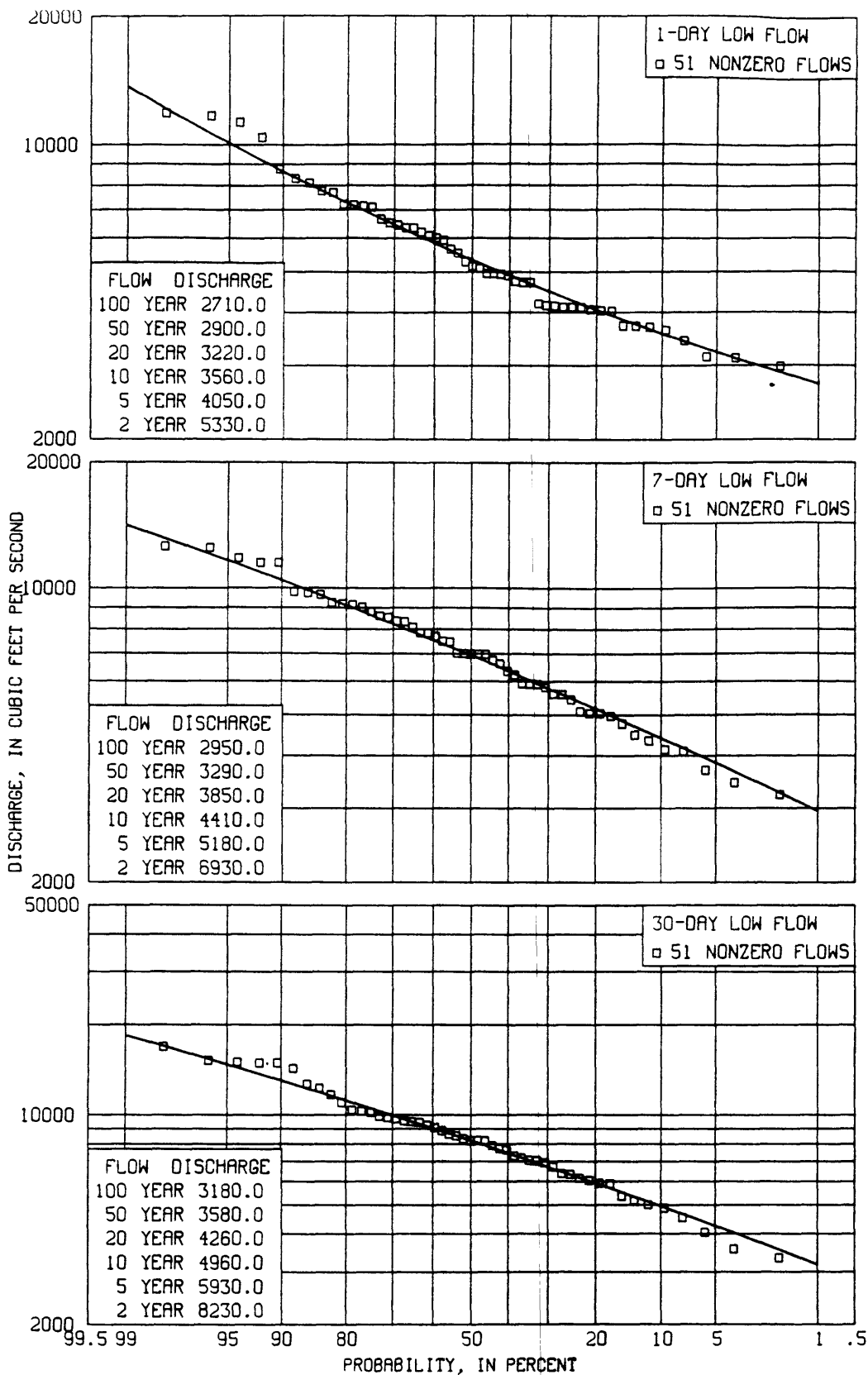
STATION 5131000 DARK RIVER NEAR CHISHOLM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



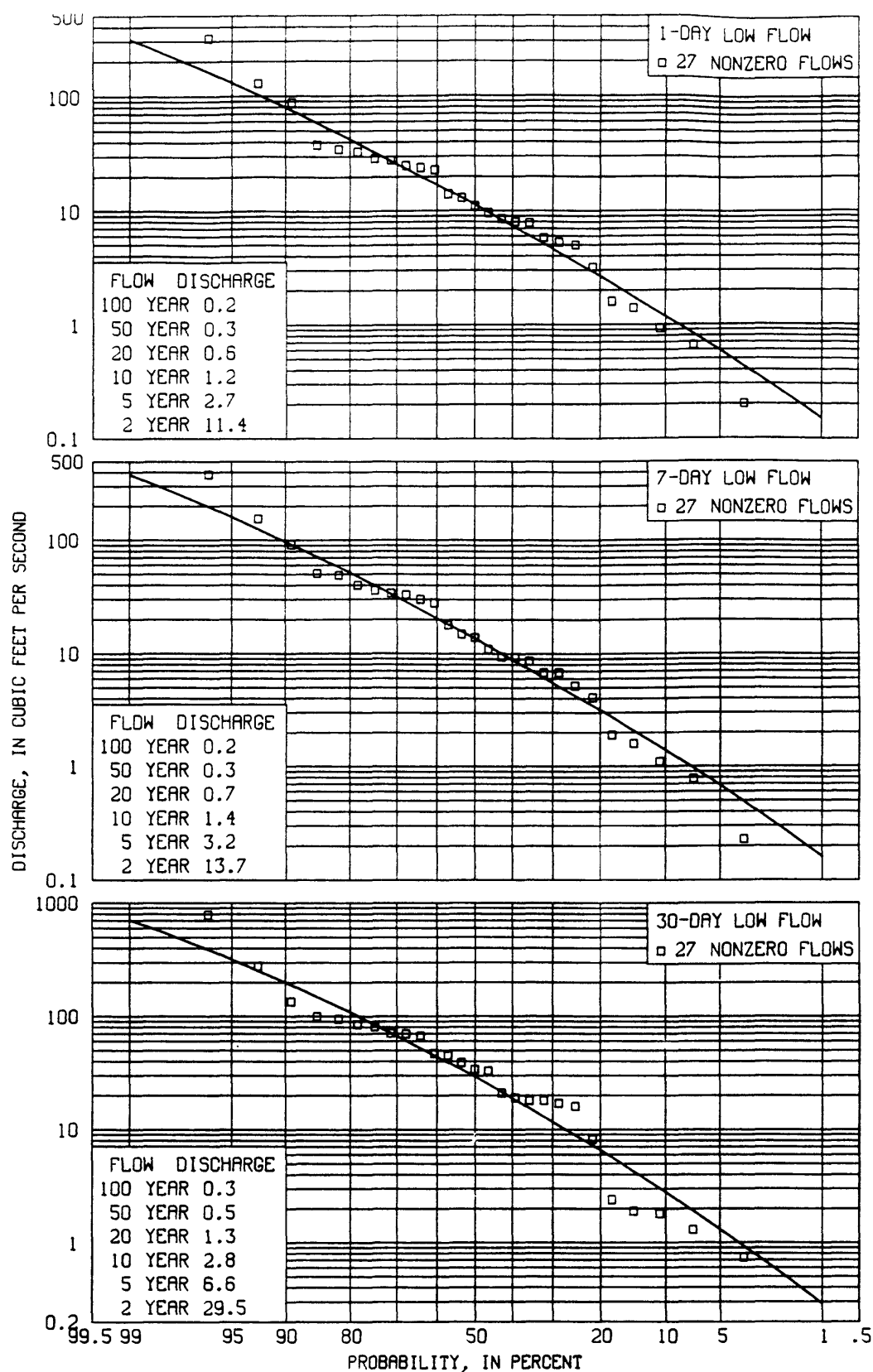
STATION 5131500 LITTLE FORK RIVER AT LITTLEFORK
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



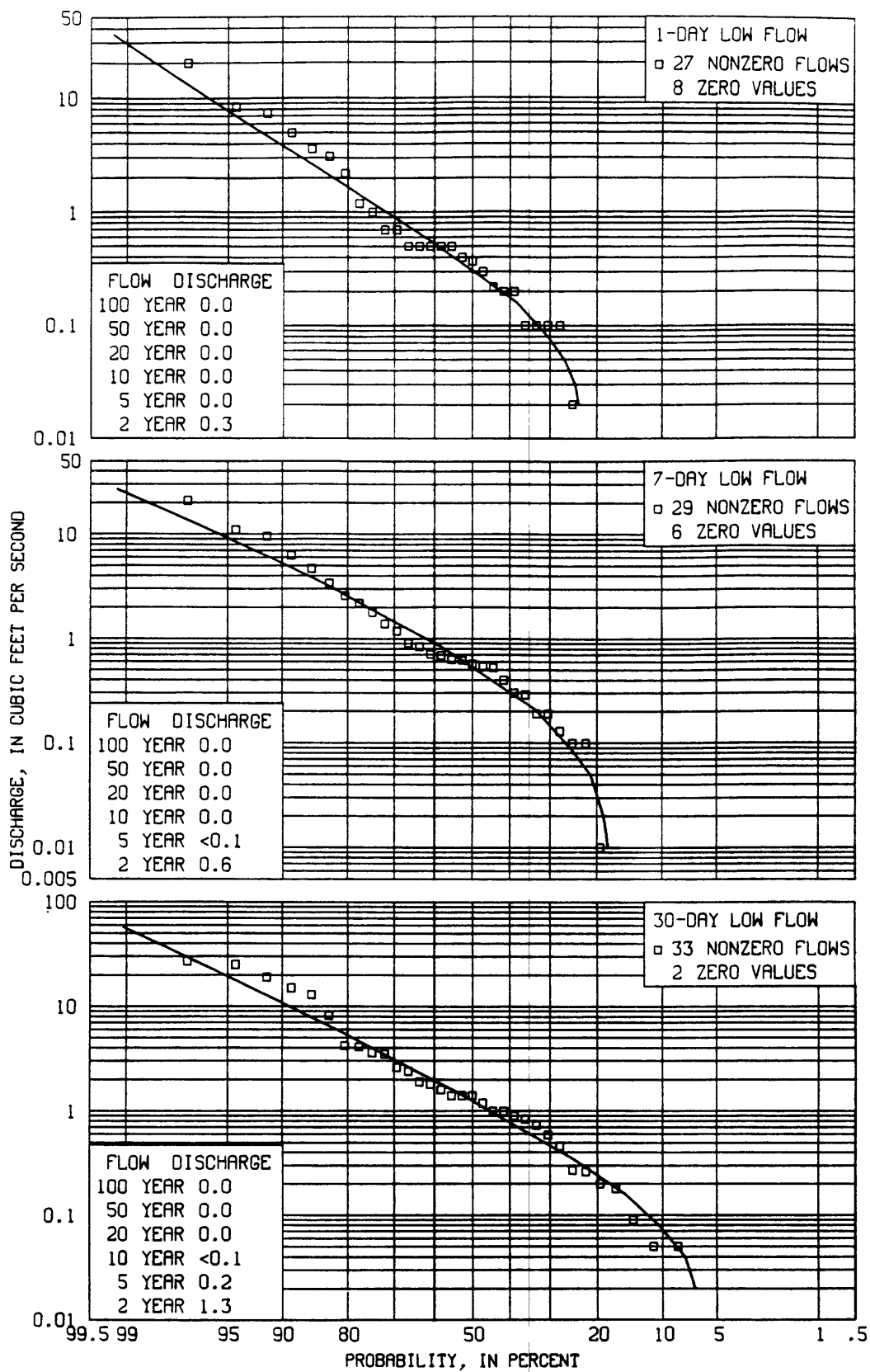
STATION 5132000 BIG FORK RIVER AT BIG FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



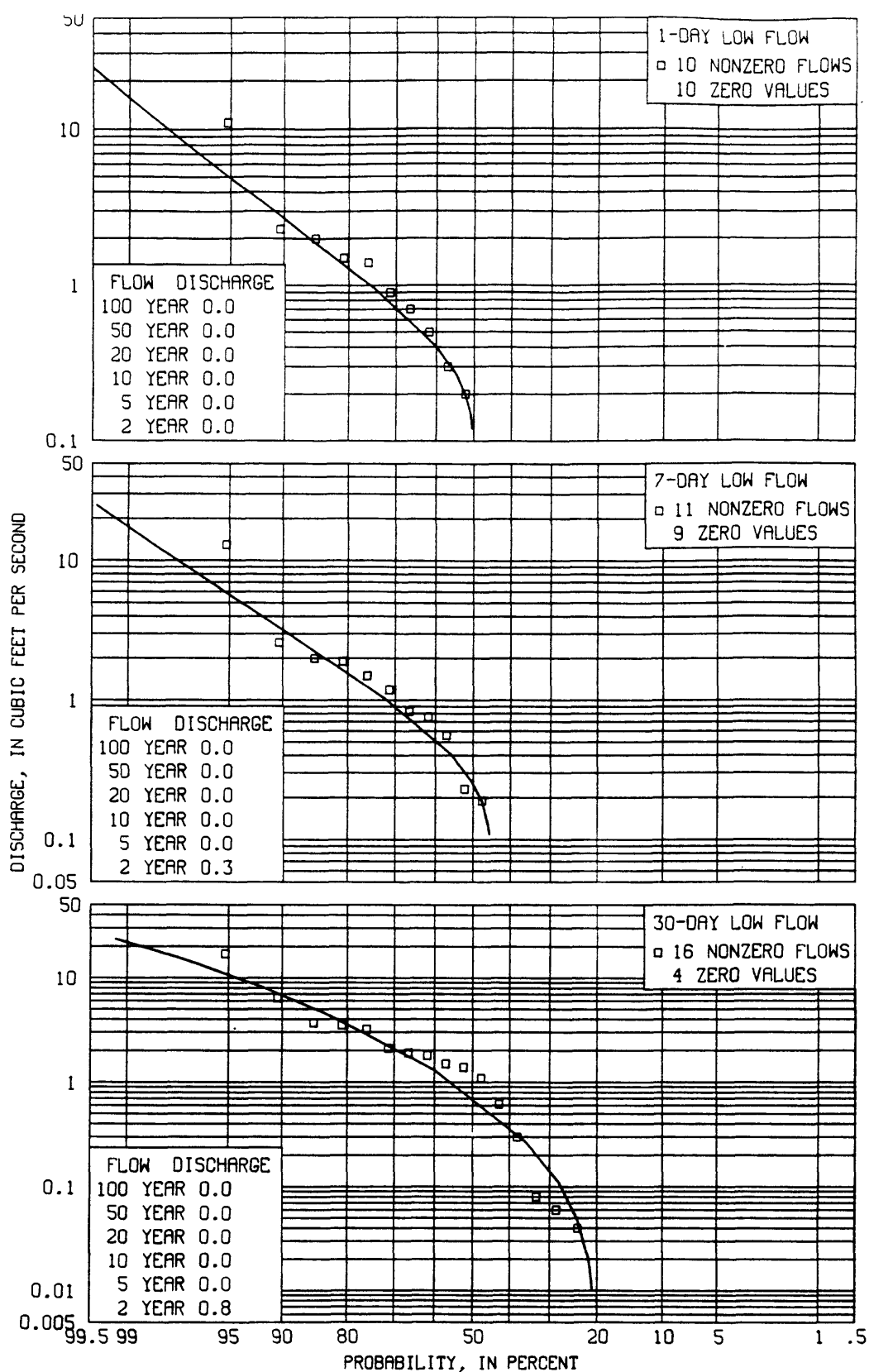
STATION 5133500 RAINY RIVER AT MANITOU RAPIDS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



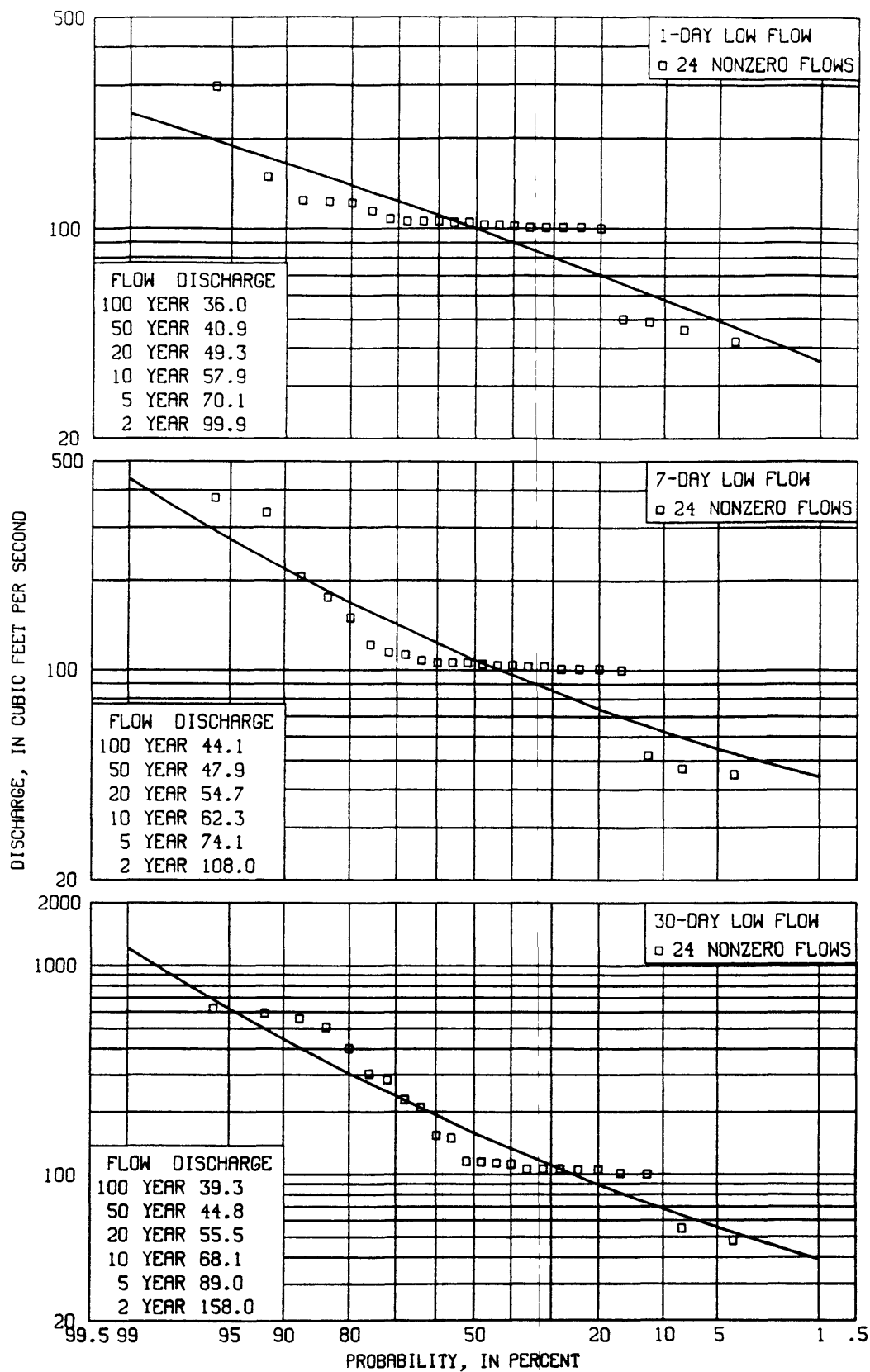
STATION 5134200 RAPID RIVER NEAR BAUDETTE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



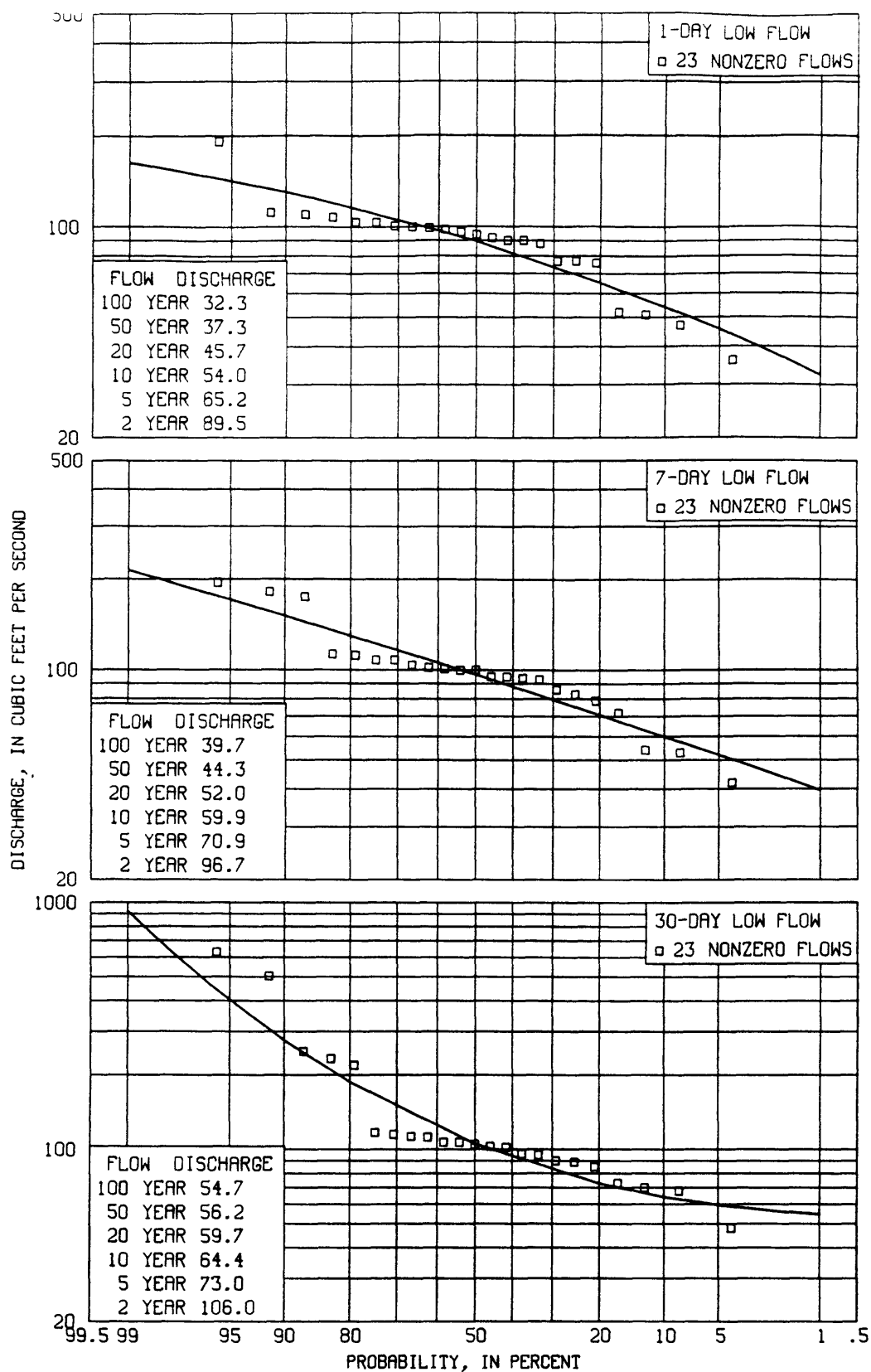
STATION 5139500 WARROAD RIVER NEAR WARROAD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



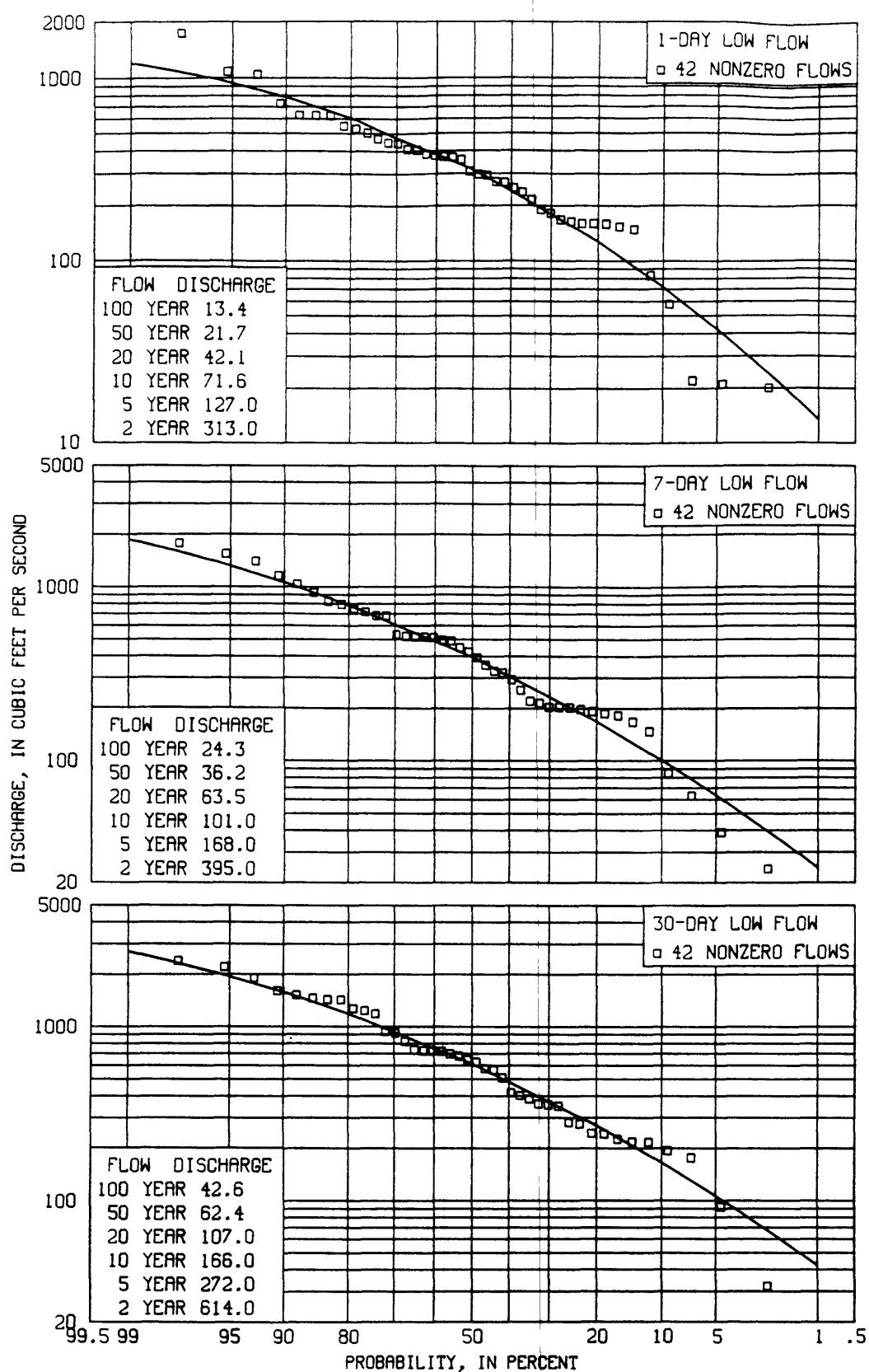
STATION 5140500 EAST BRANCH WARROAD RIVER NEAR WARROAD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



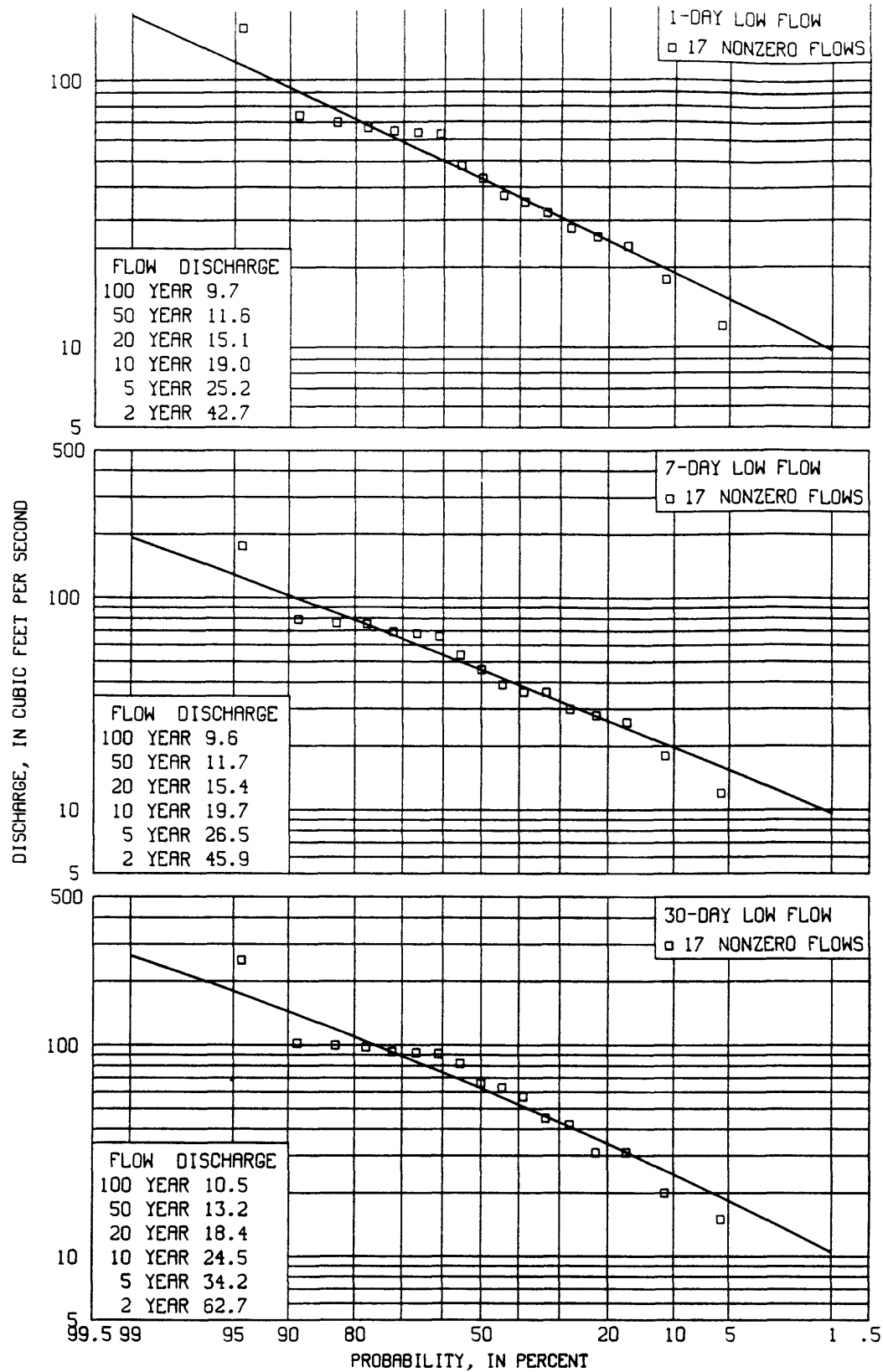
STATION 5201500 MISSISSIPPI RIVER AT WINNIBIGOSHISH DAM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



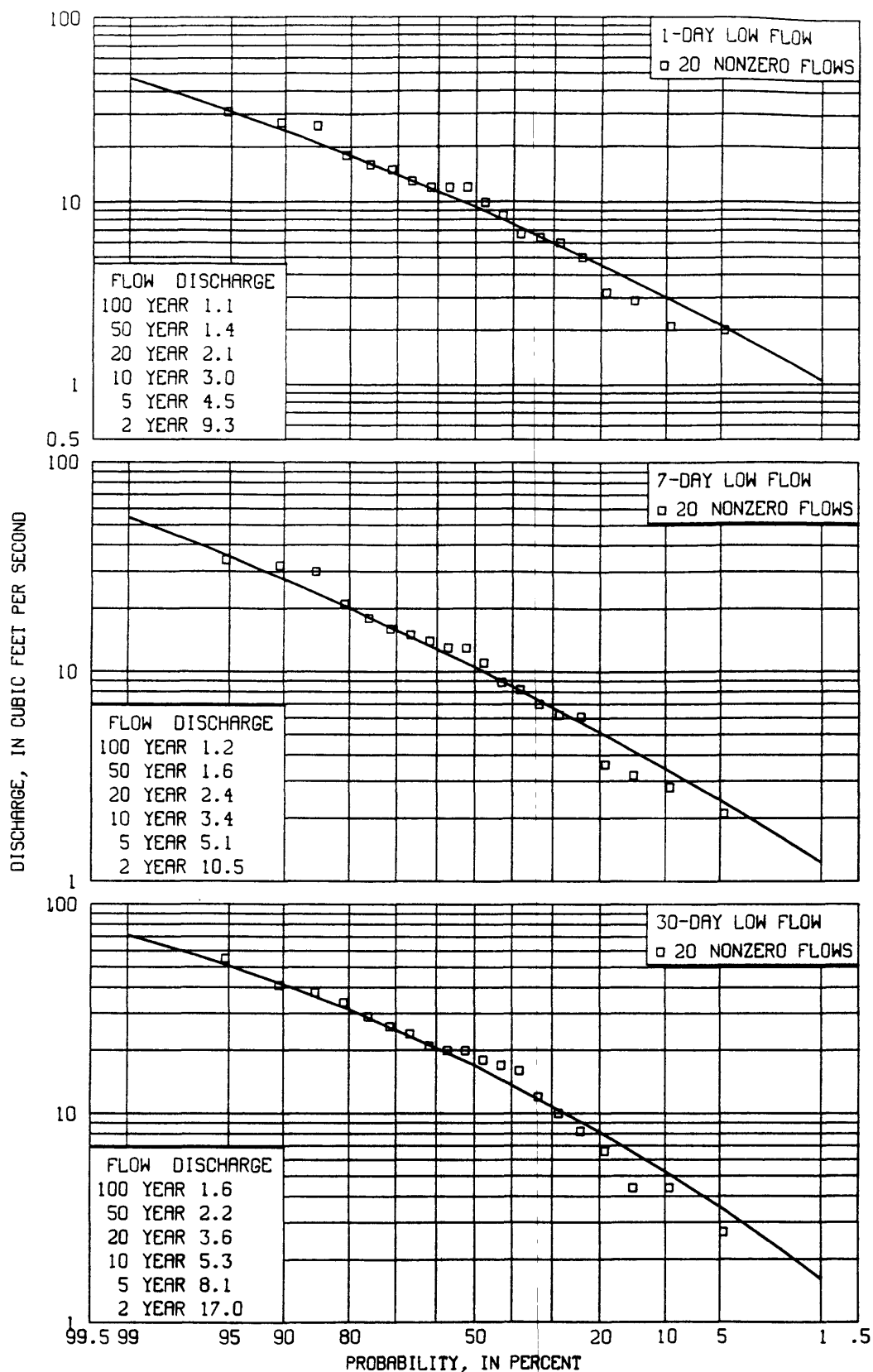
STATION 5206500 LEECH LAKE RIVER AT FEDERAL DAM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



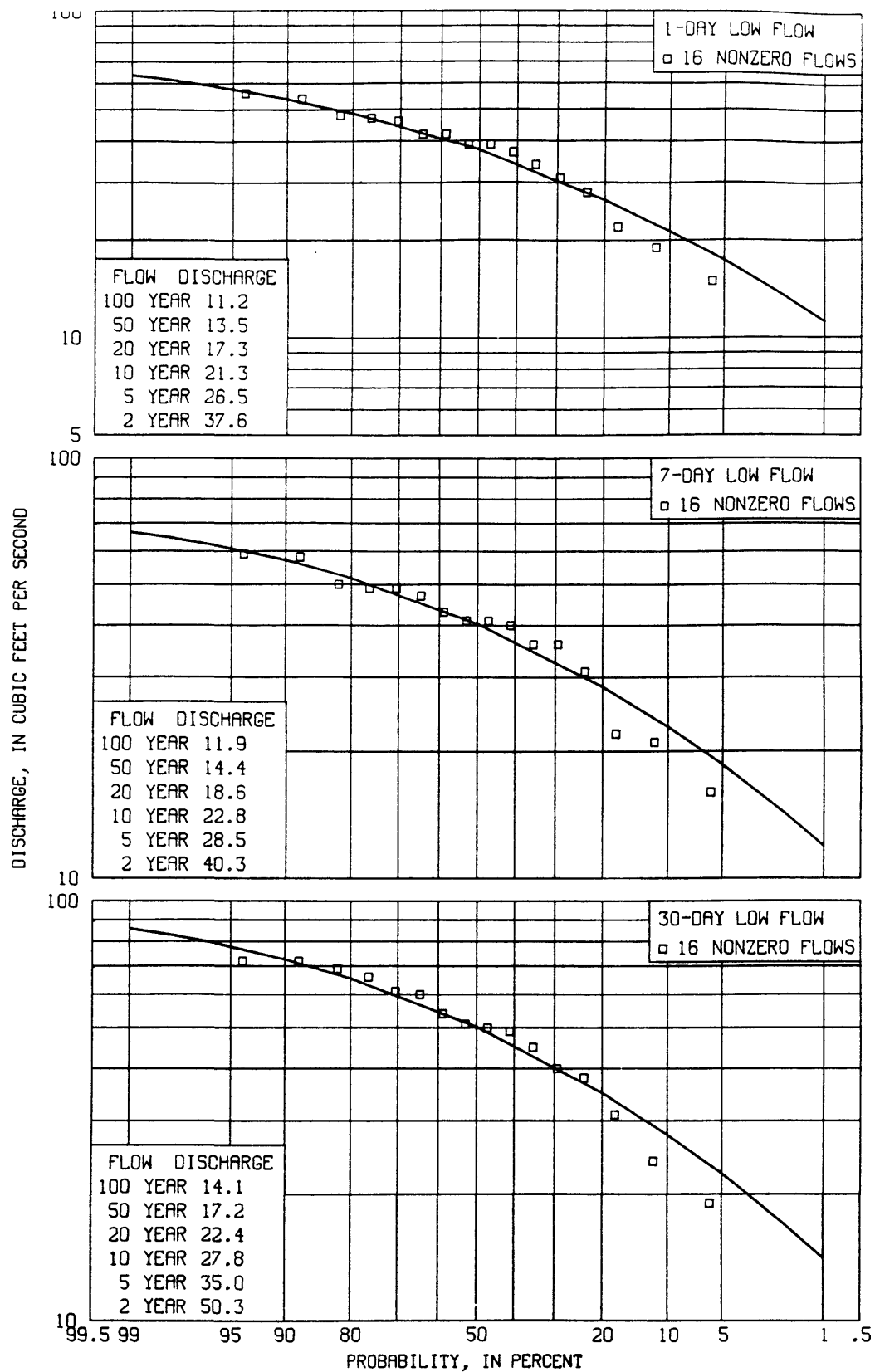
STATION 5211000 MISSISSIPPI RIVER AT GRAND RAPIDS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



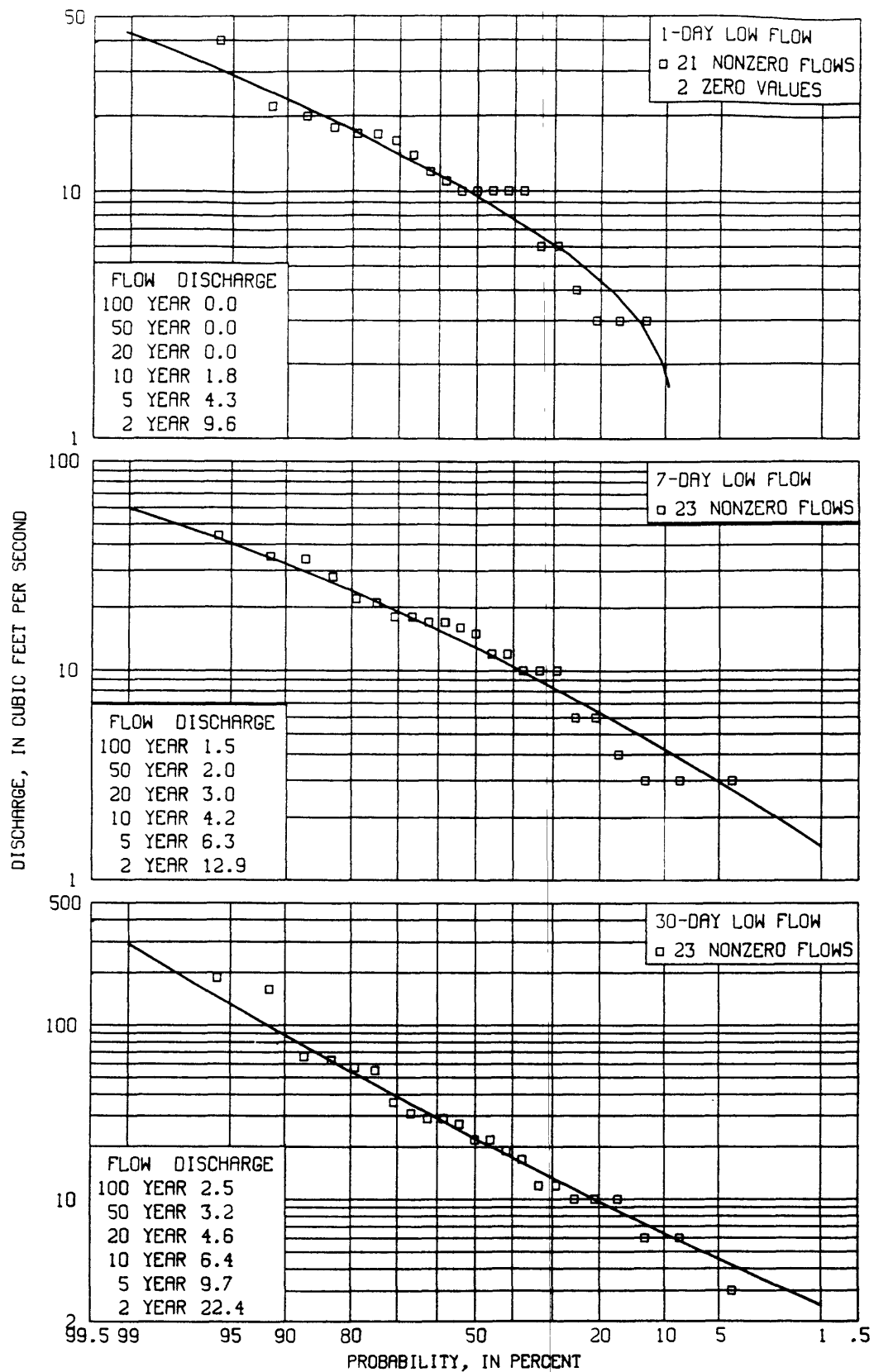
STATION 5212700 PRAIRIE RIVER NEAR TACONITE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



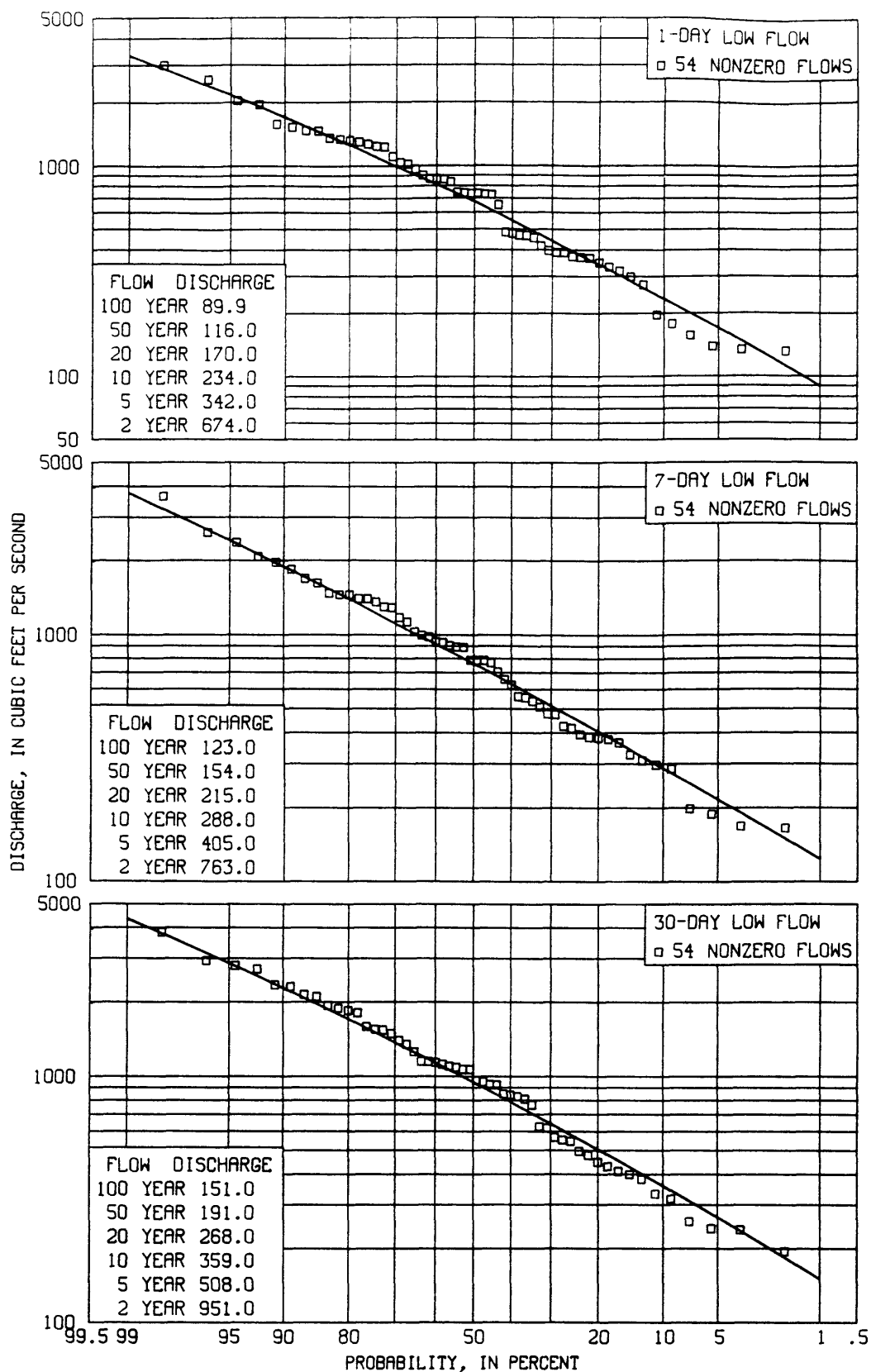
STATION 5216860 SWAN RIVER NEAR CALUMET
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



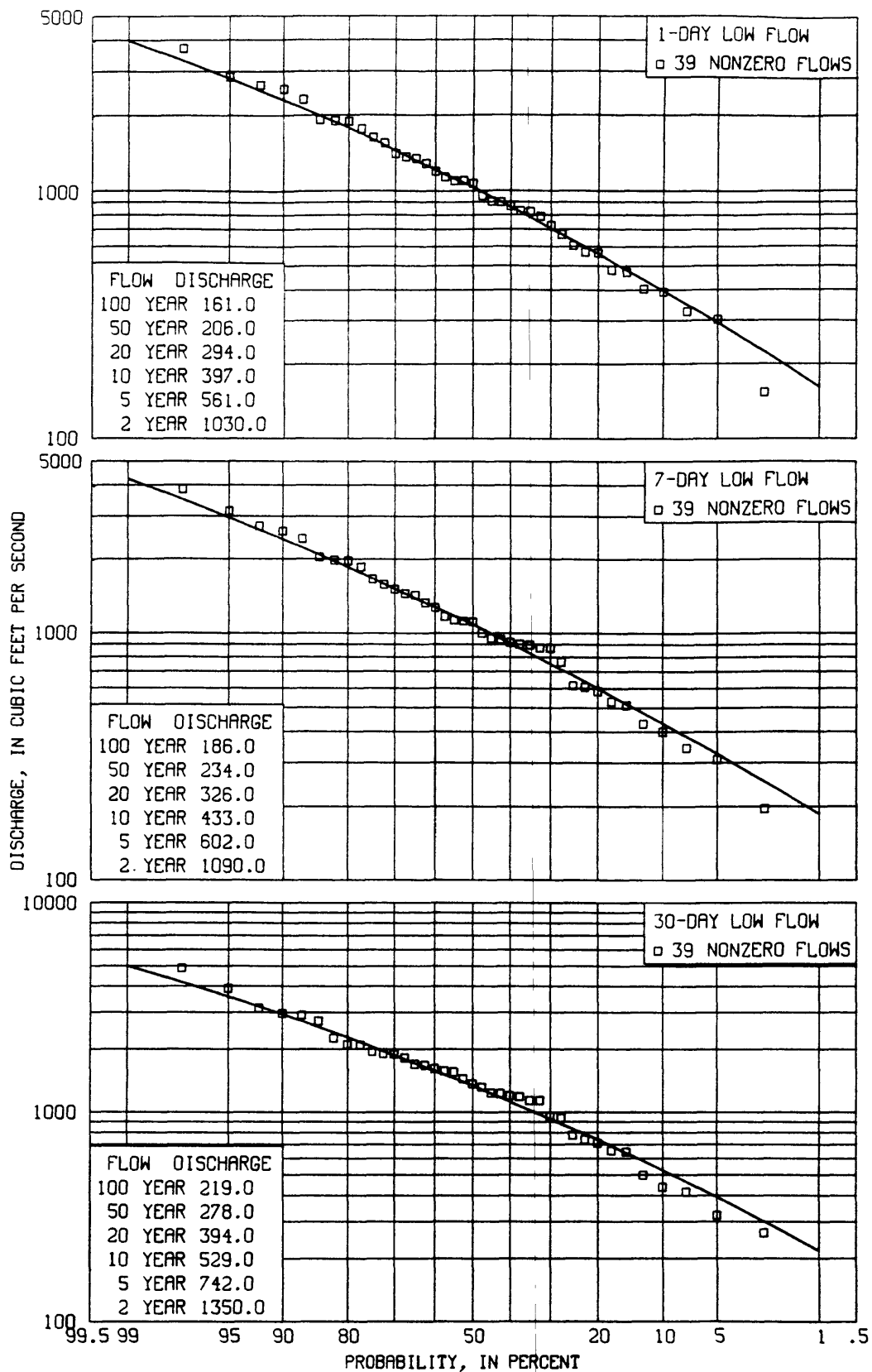
STATION 5217000 SWAN RIVER NEAR WARBA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



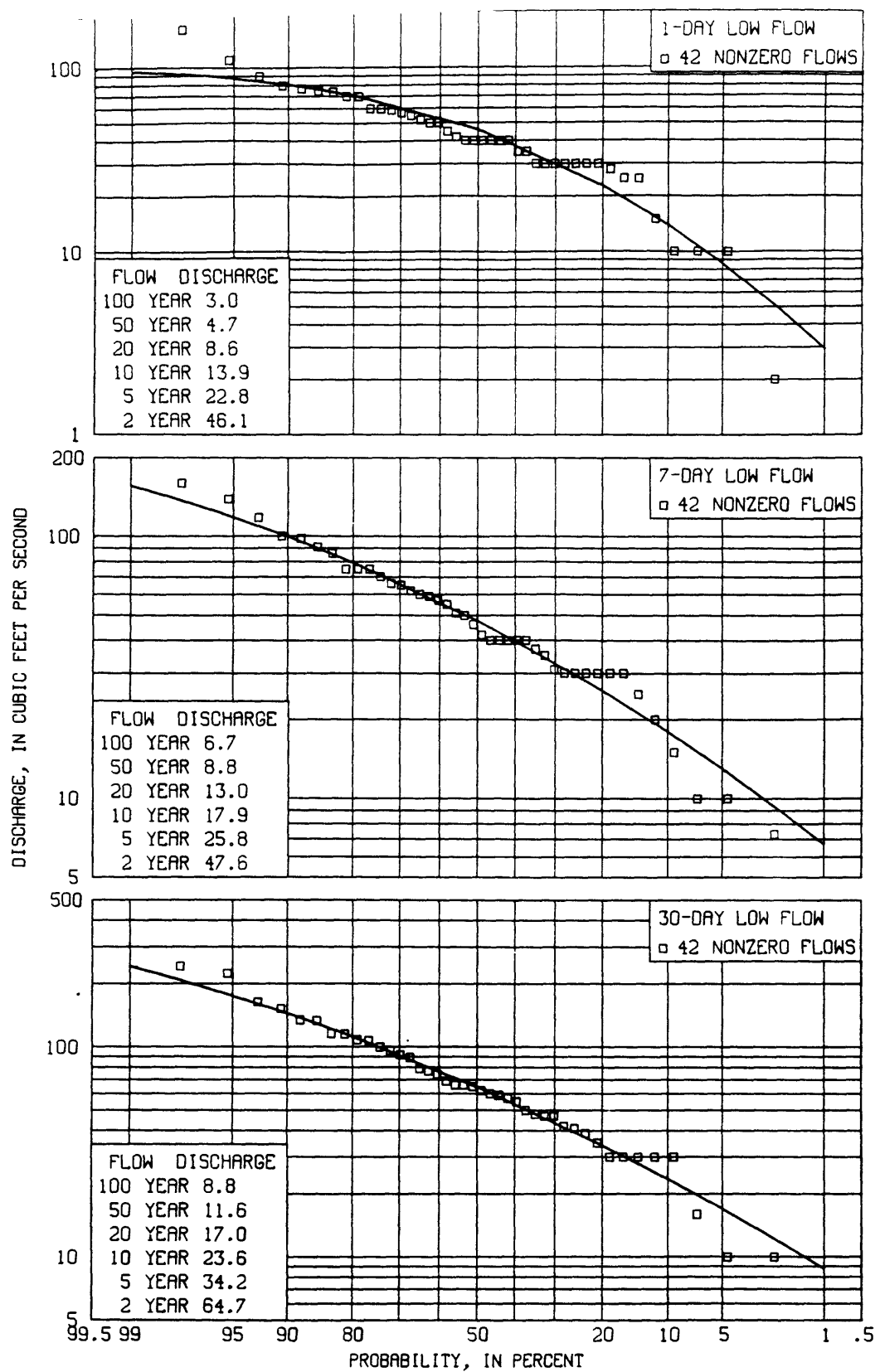
STATION 5219000 SANDY RIVER AT SANDY LAKE DAM, AT LIBBY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



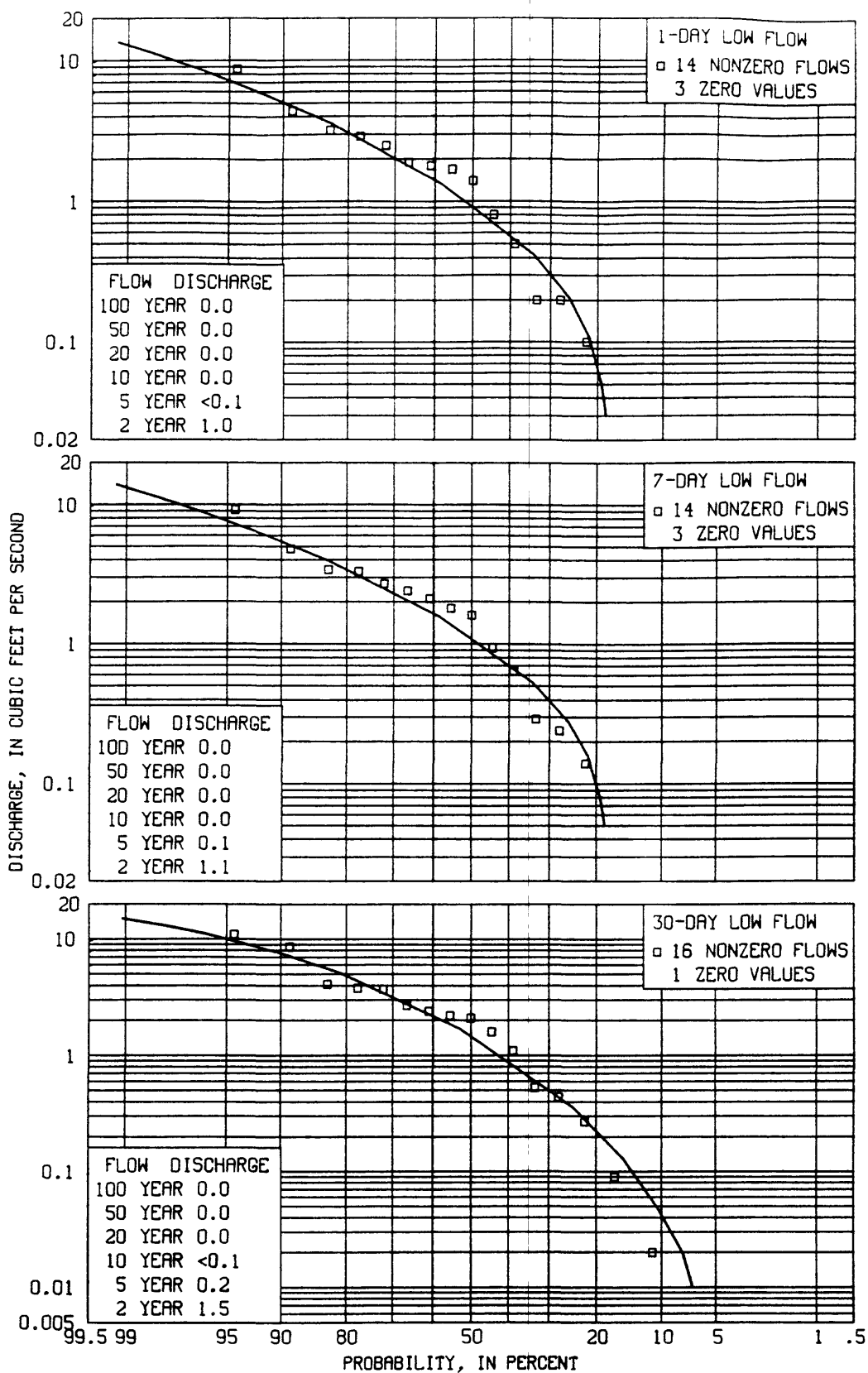
STATION 5220500 MISSISSIPPI RIVER BELOW SANDY RIVER NR LIBBY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



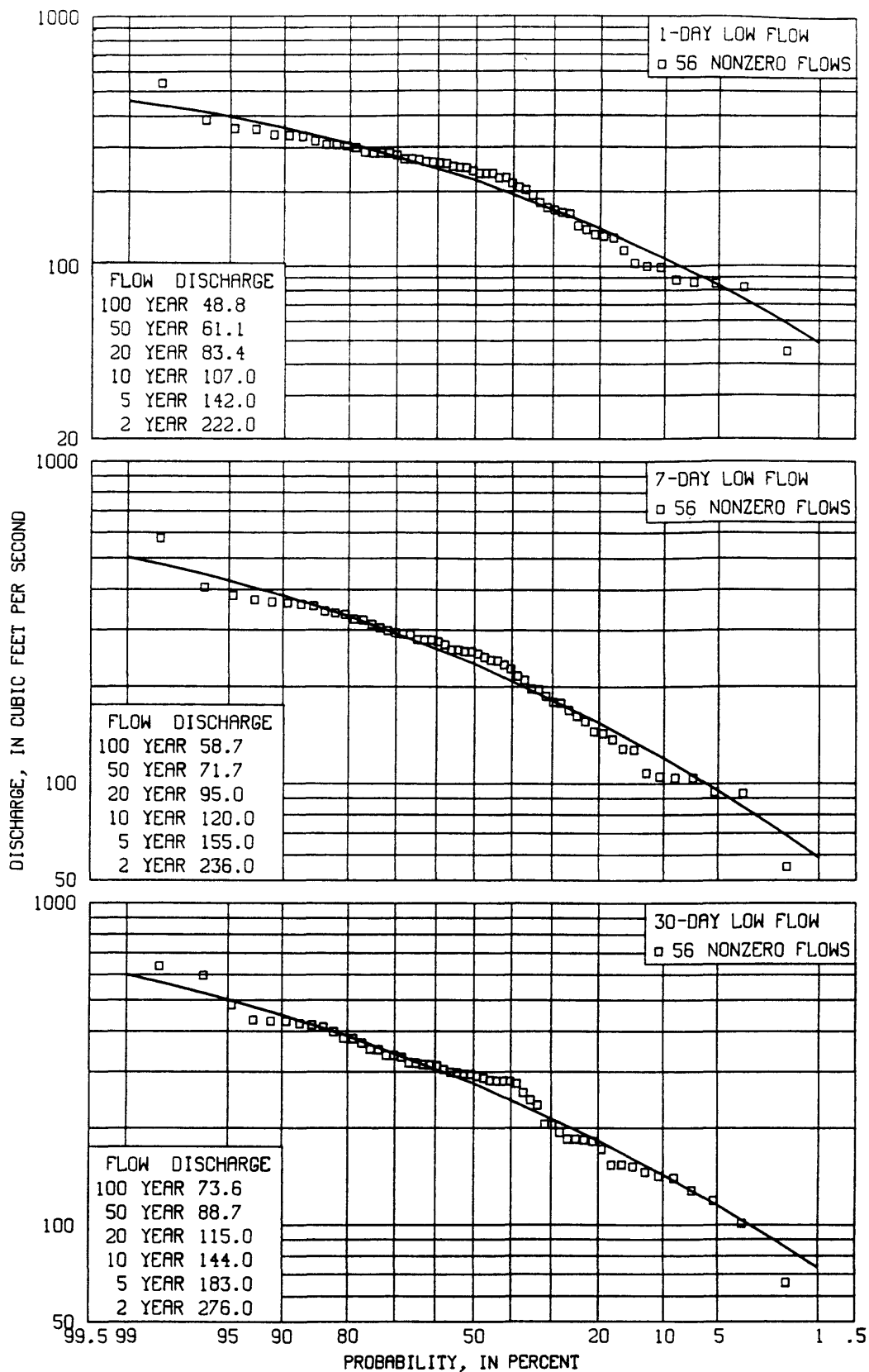
STATION 5227500 MISSISSIPPI RIVER AT AITKIN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



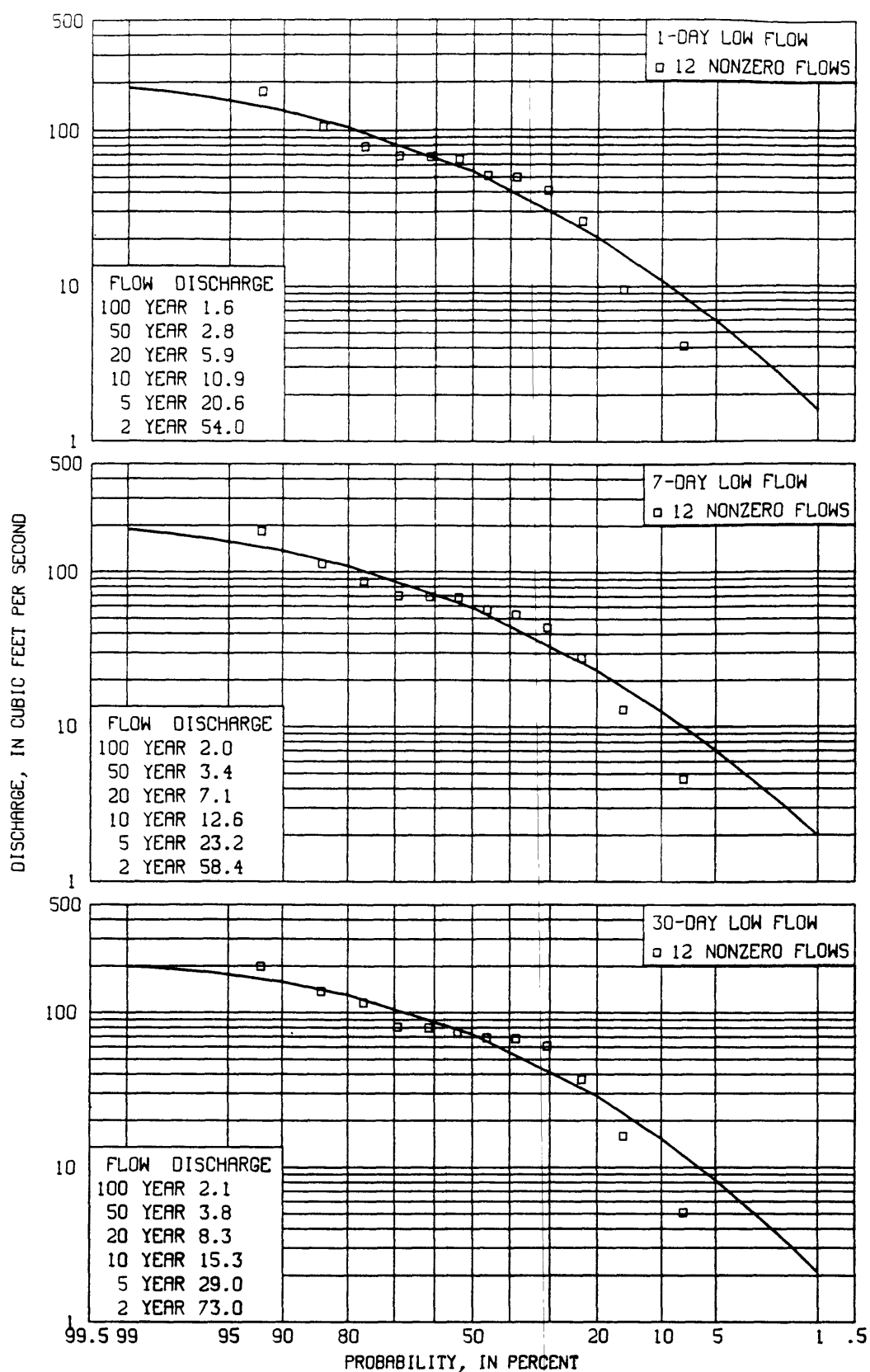
STATION 5231000 PINE RIVER AT CROSS LAKE DAM, AT CROSS LAKE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



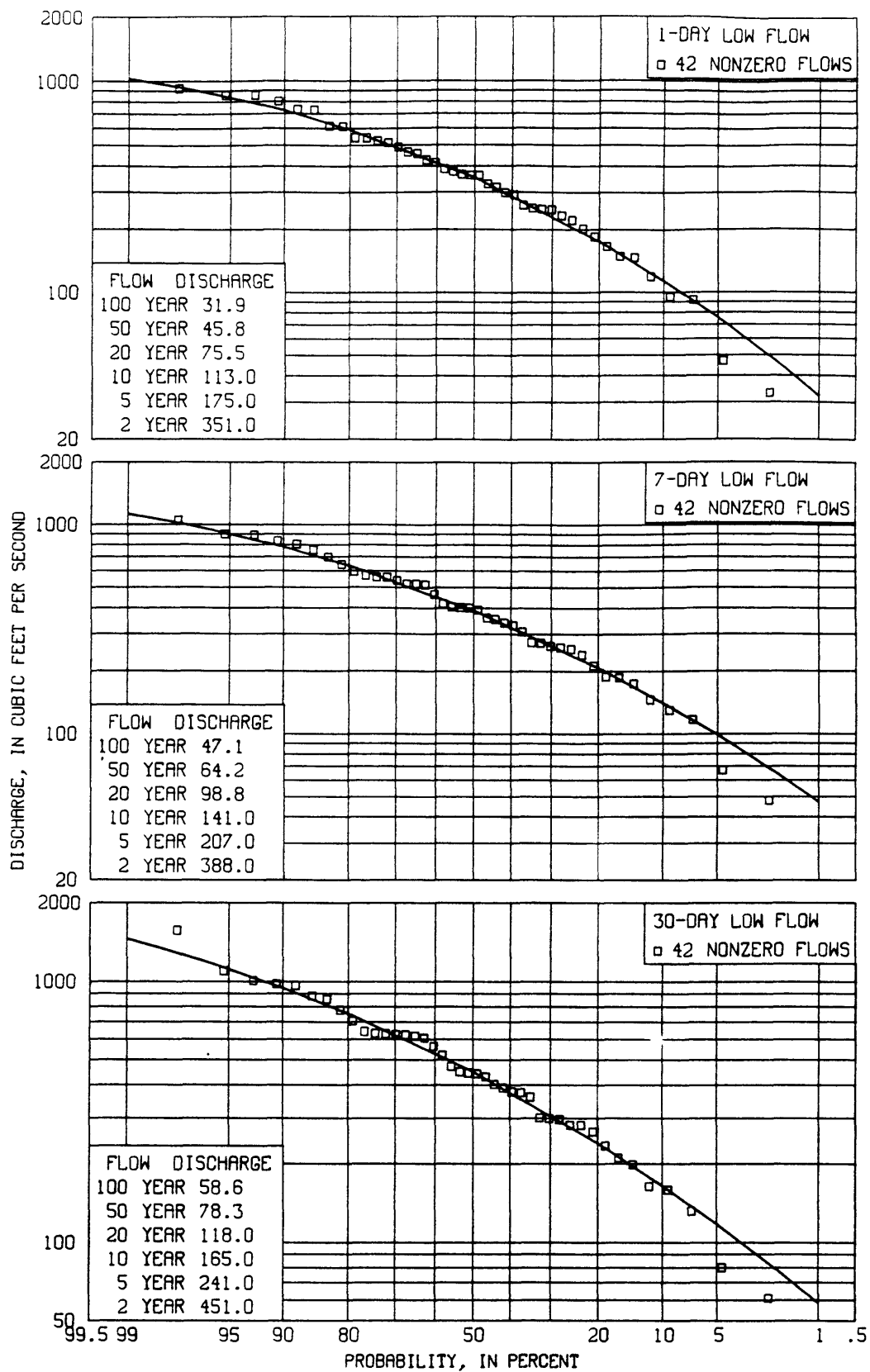
STATION 5241500 RABBIT RIVER NEAR CROSBY
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



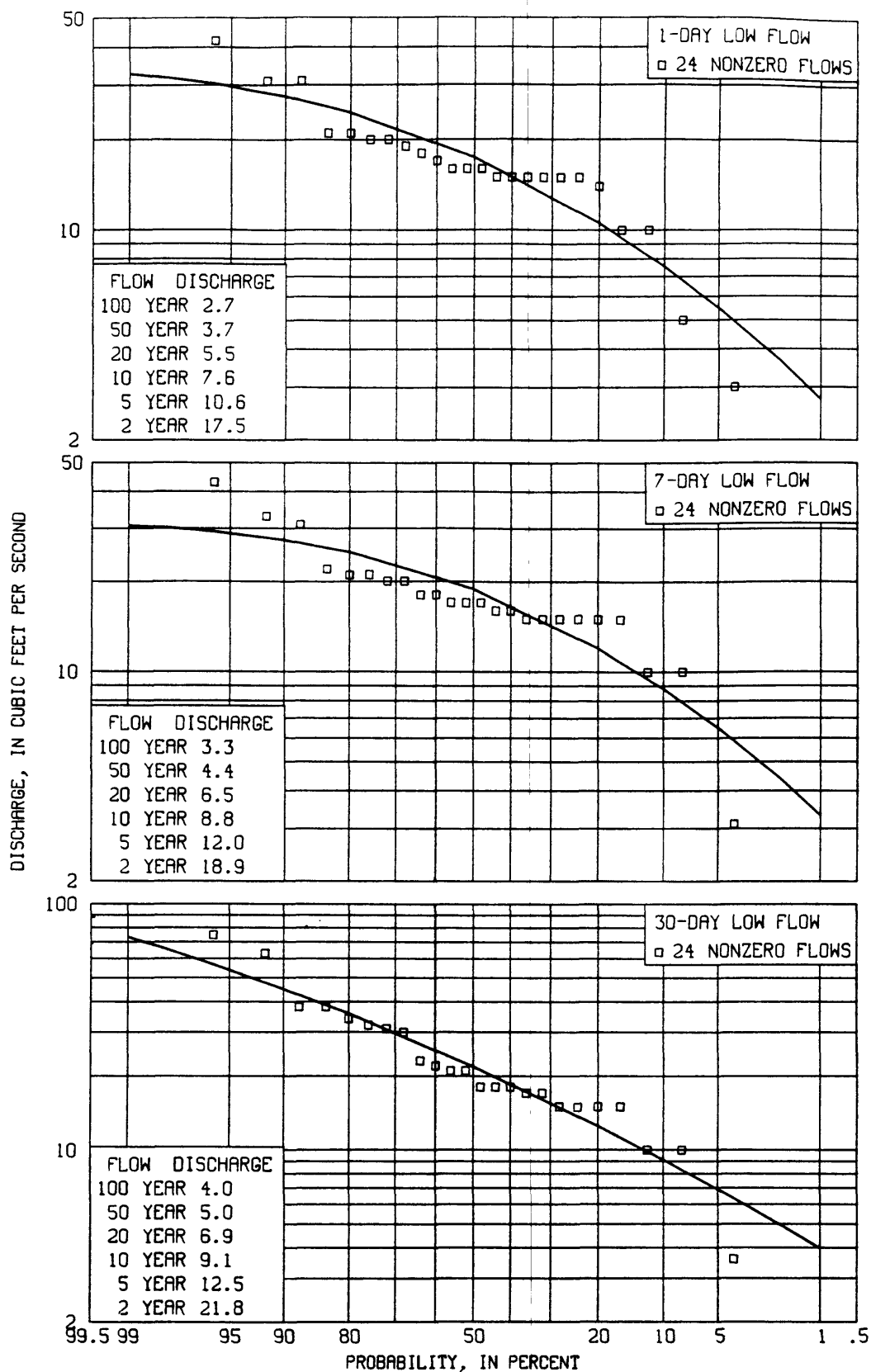
STATION 5244000 CROW WING RIVER AT NIMROD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



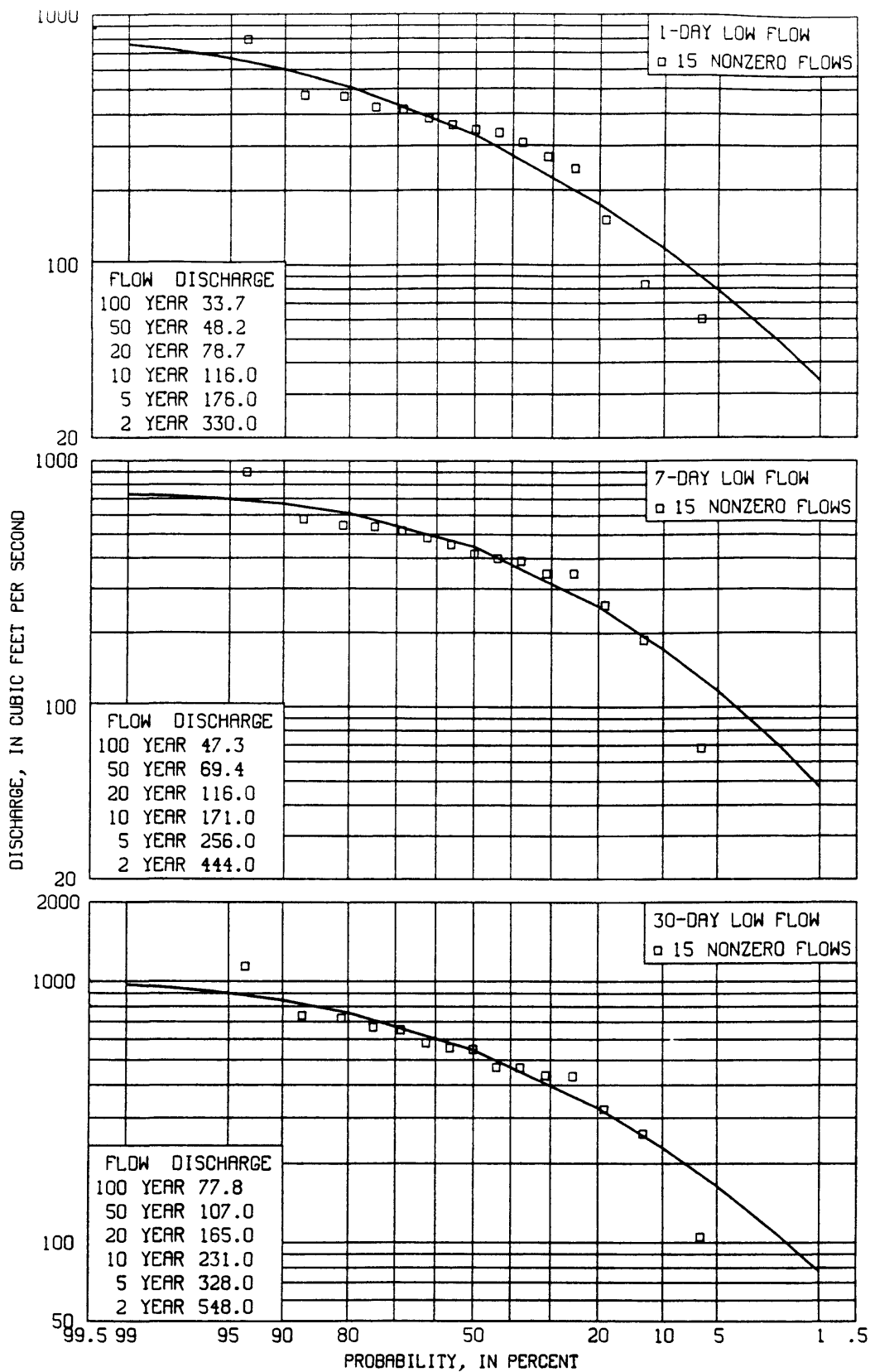
STATION 5245100 LONG PRAIRIE RIVER AT LONG PRAIRIE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



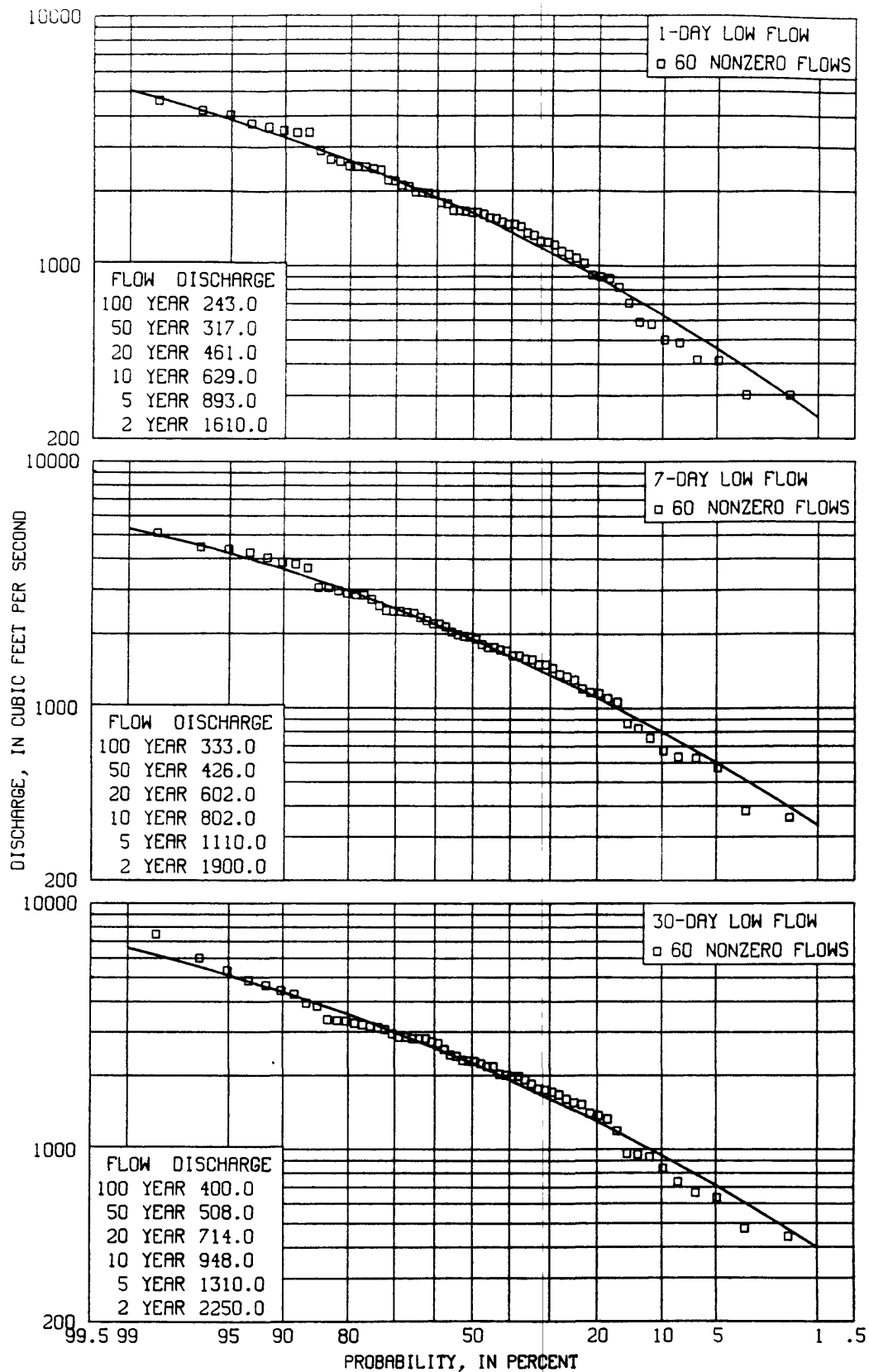
STATION 5246000 CROW WING RIVER AT PILLAGER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



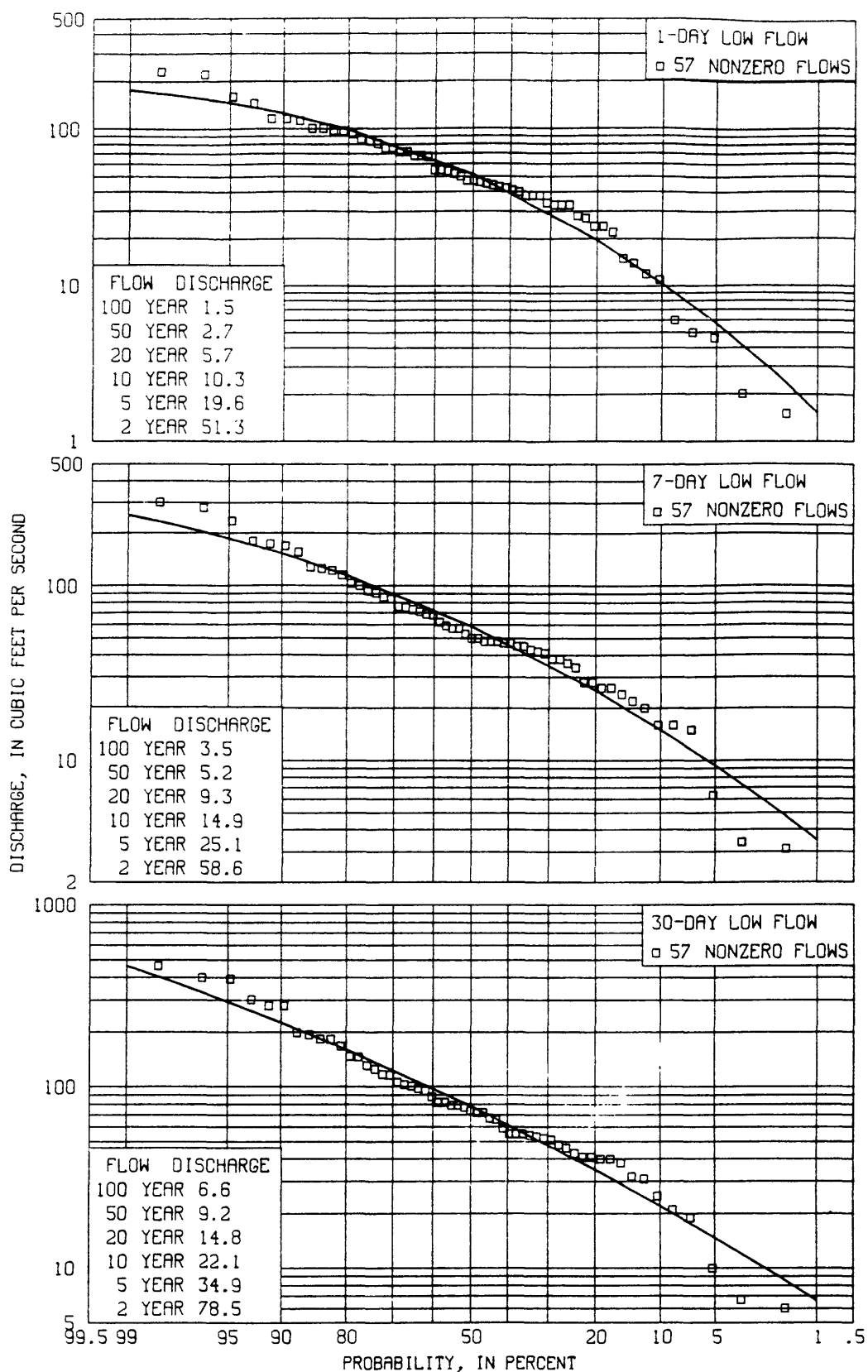
STATION 5247000 GULL RIVER AT GULL LAKE DAM NEAR BRAINERD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



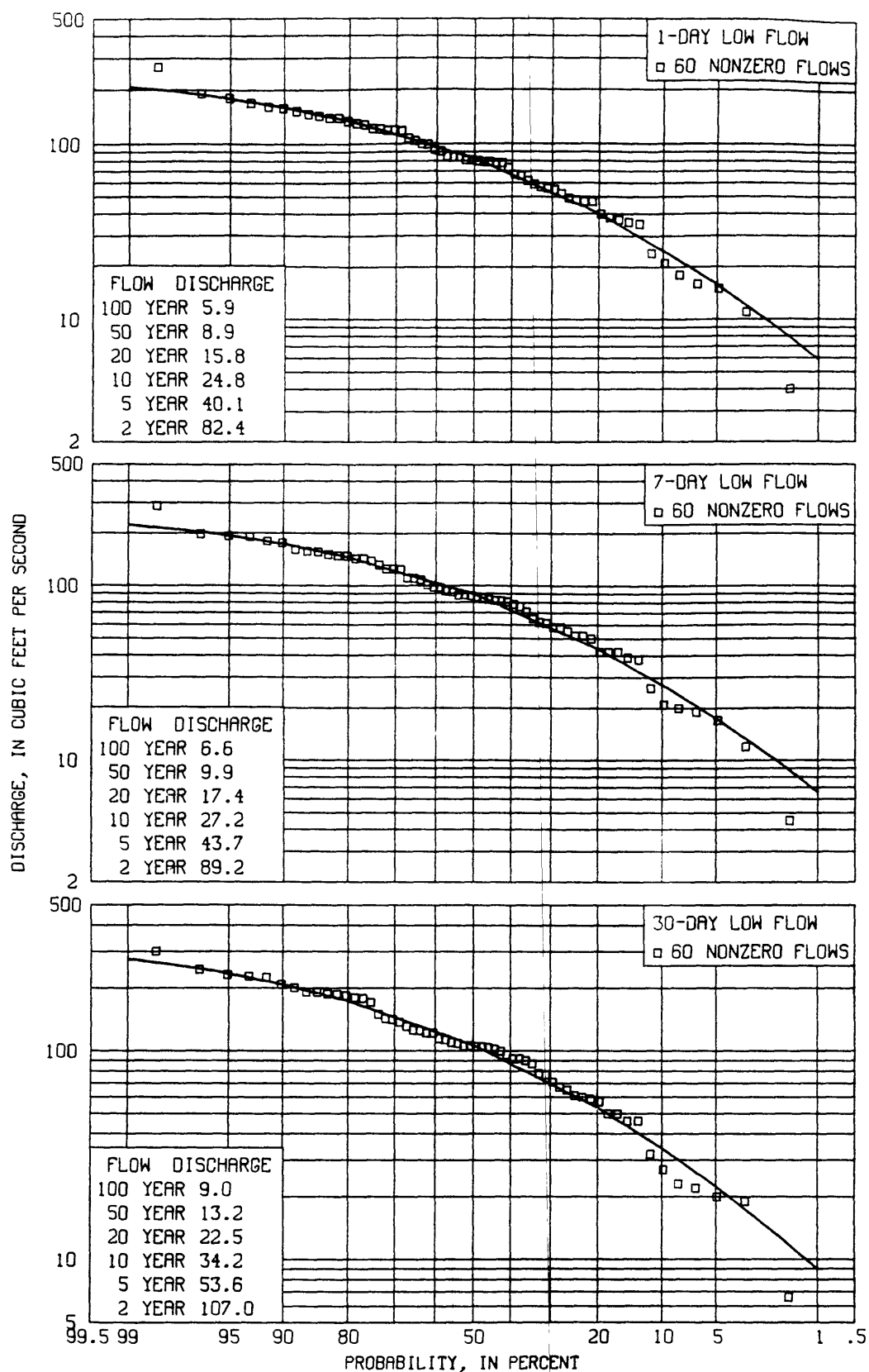
STATION 5247500 CROW WING RIVER NEAR PILLAGER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



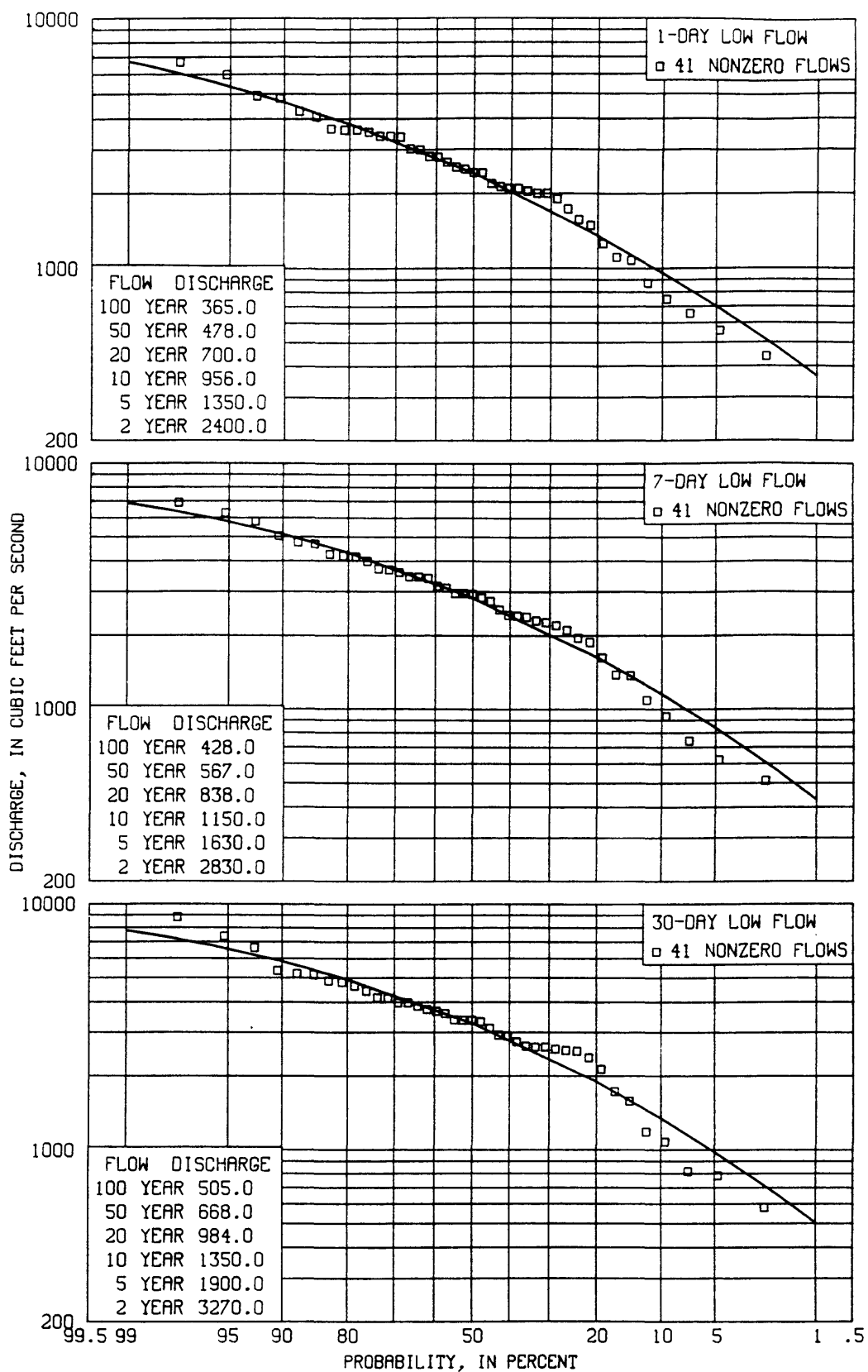
STATION 5267000 MISSISSIPPI RIVER NEAR ROYALTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



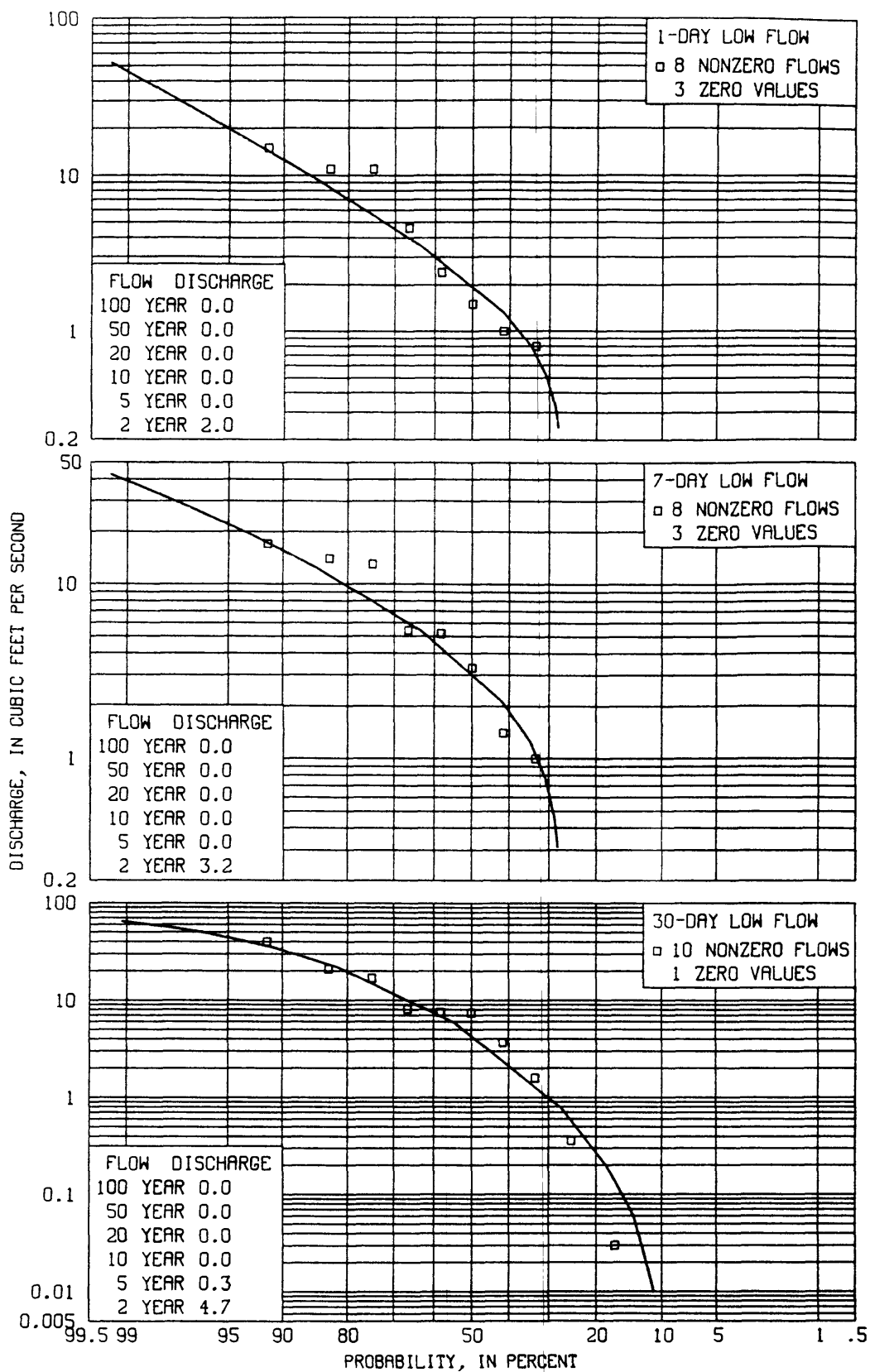
STATION 5270500 SAUK RIVER NEAR ST. CLOUD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



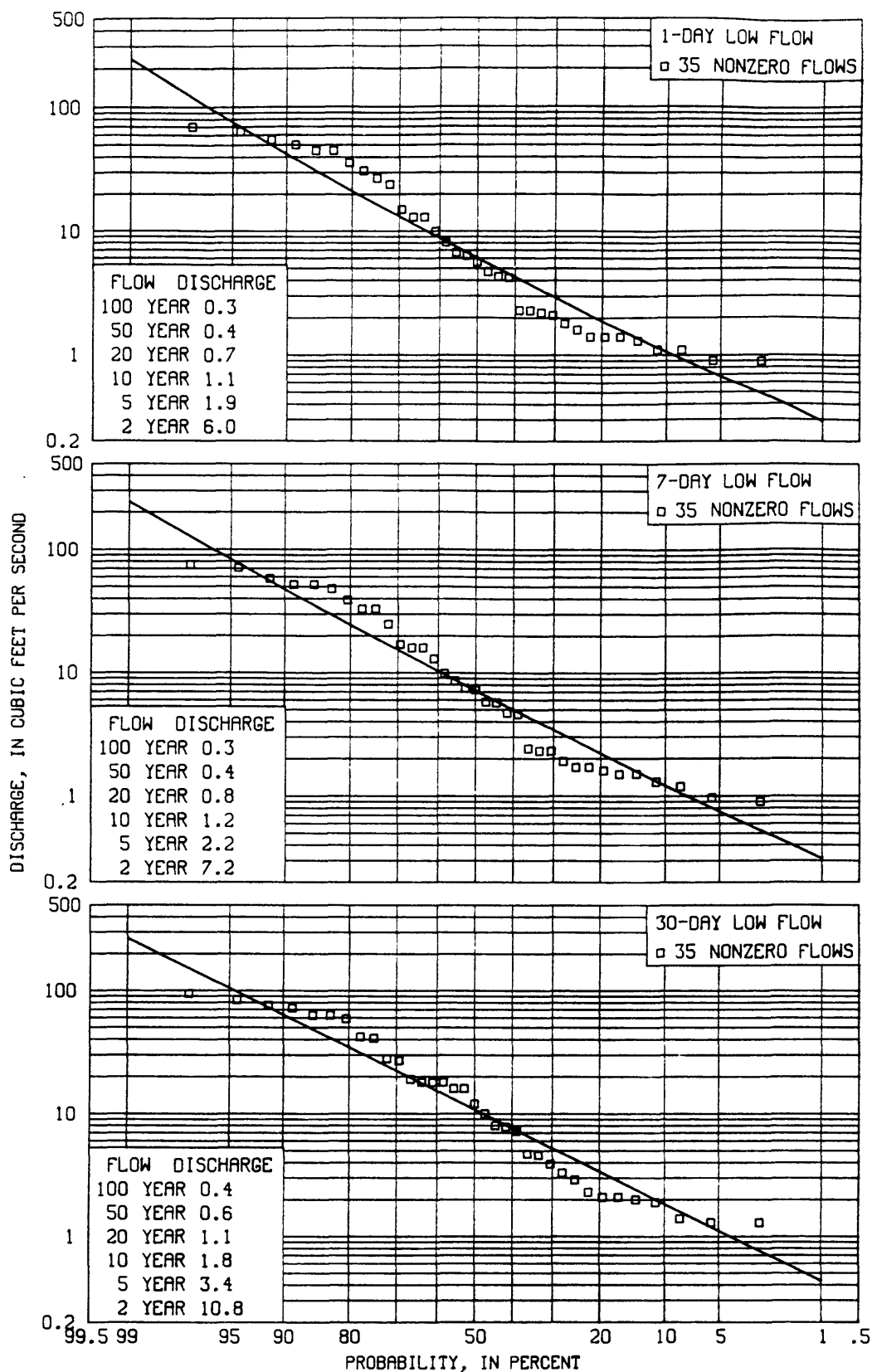
STATION 5275000 ELK RIVER NEAR BIG LAKE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



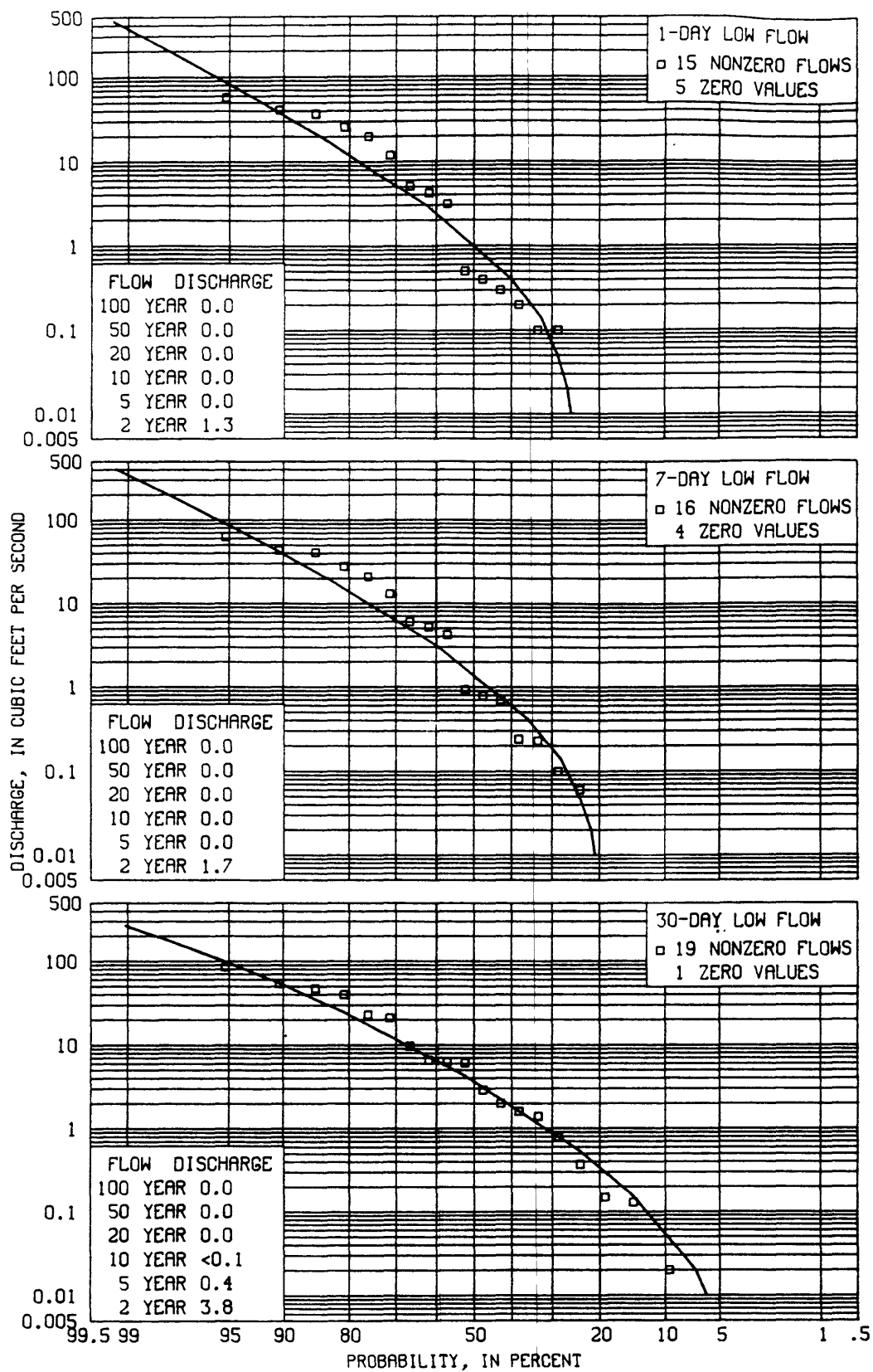
STATION 5275500 MISSISSIPPI RIVER AT ELK RIVER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



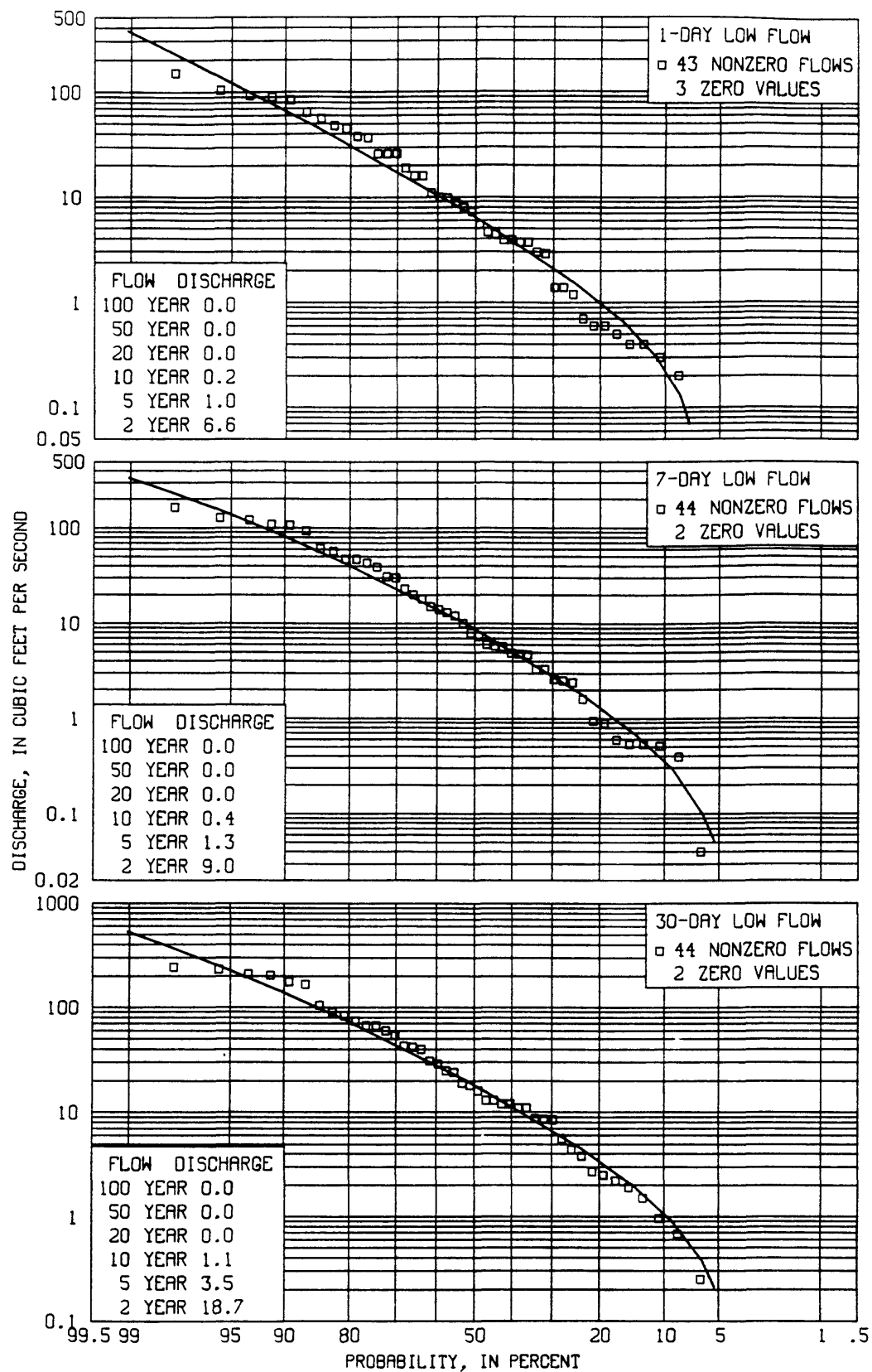
STATION 5276000 NORTH FORK CROW RIVER NEAR REGAL
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



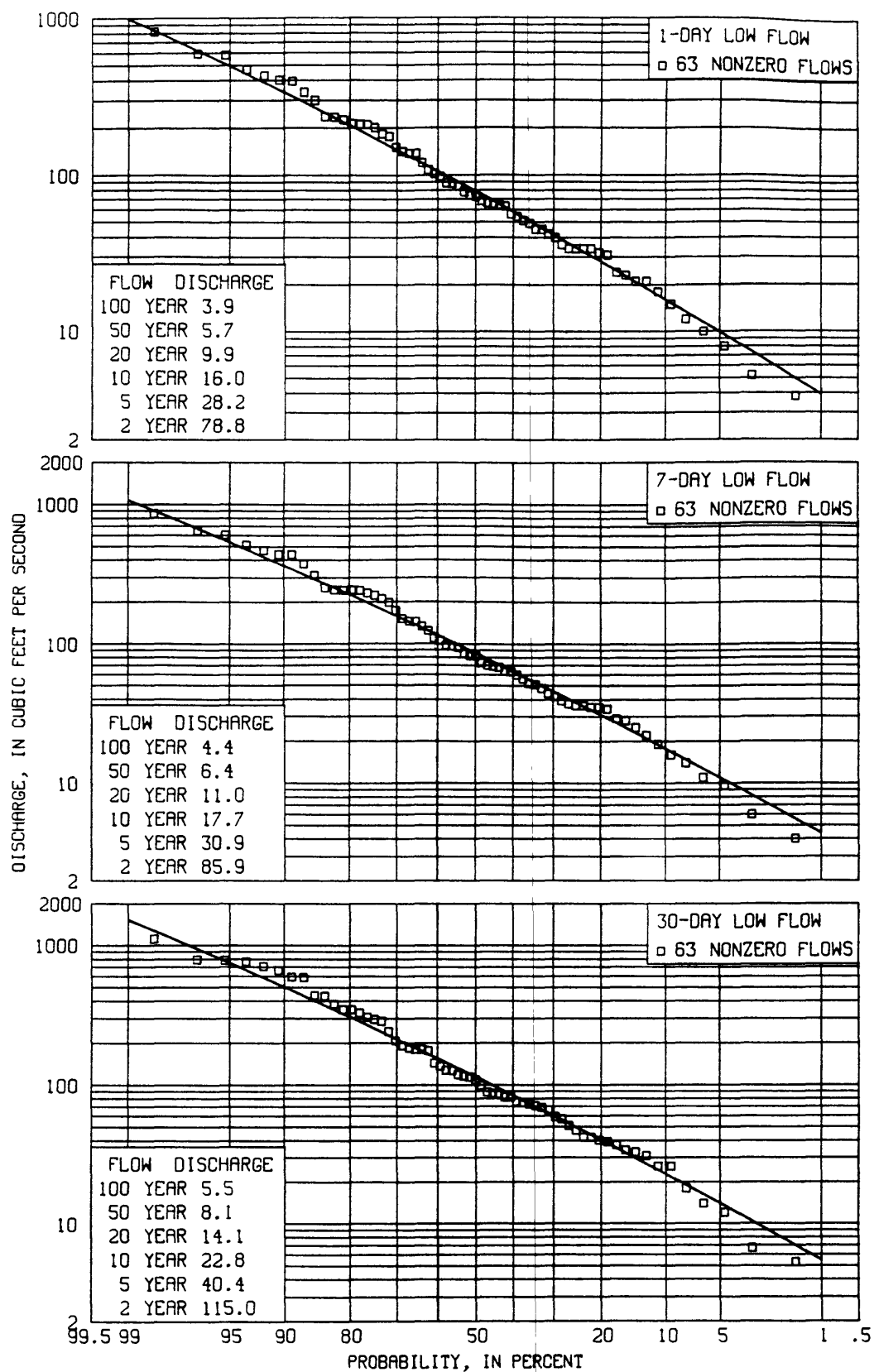
STATION 5278000 MIDDLE FORK CROW RIVER NEAR SPICER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



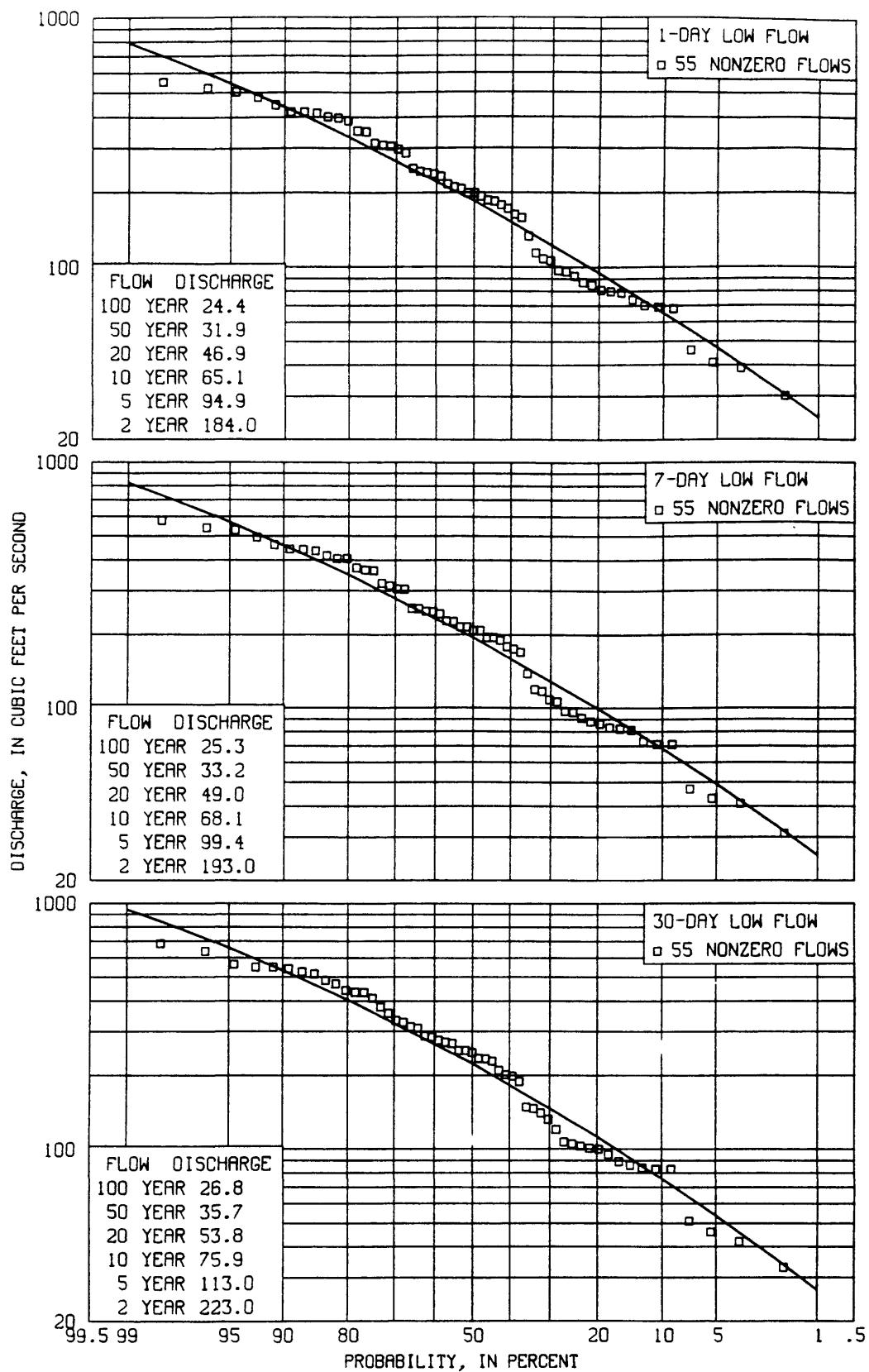
STATION 5278500 SOUTH FORK CROW RIVER AT COSMOS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



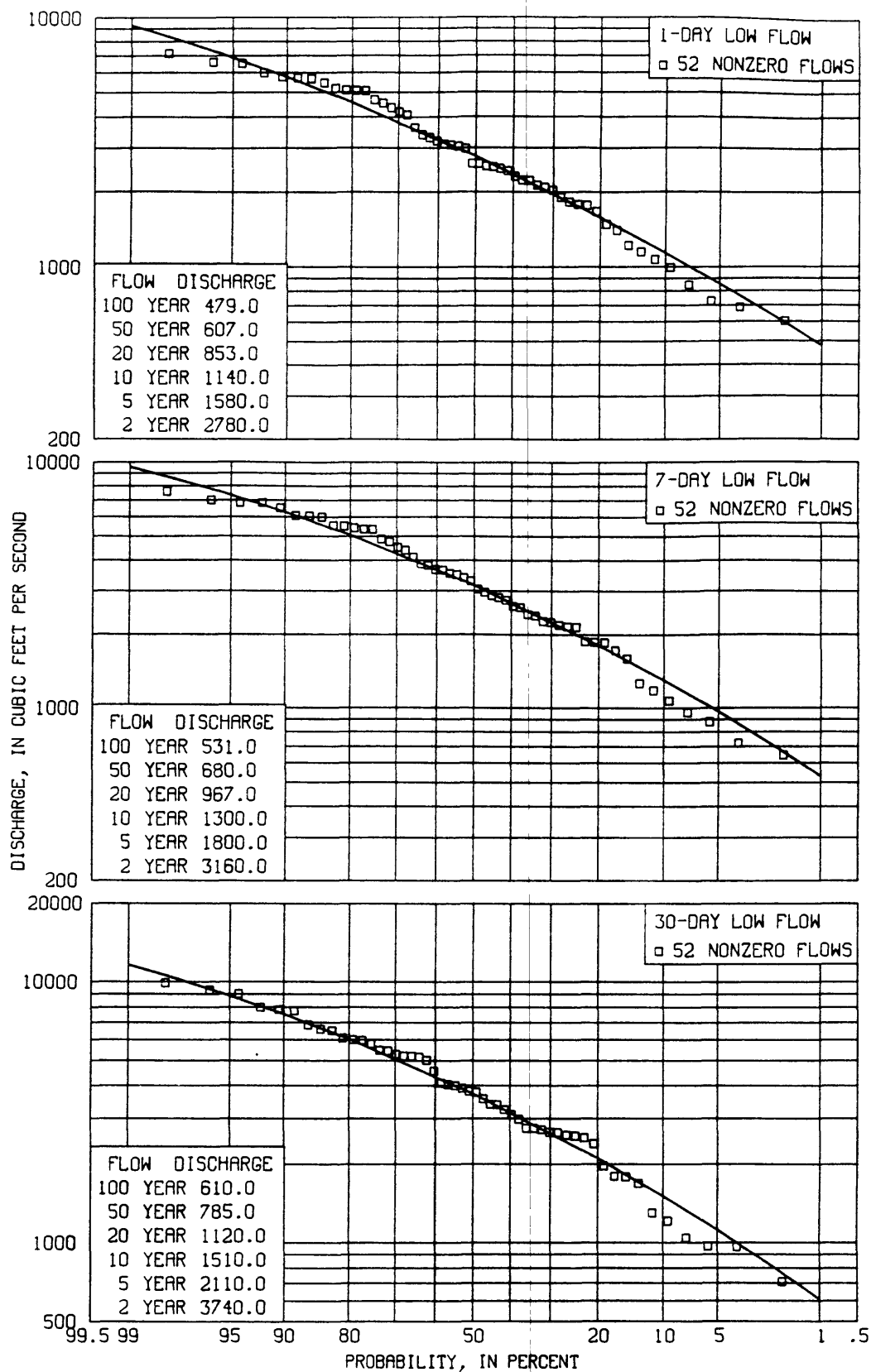
STATION 5279000 SOUTH FORK CROW RIVER NEAR MAYER
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



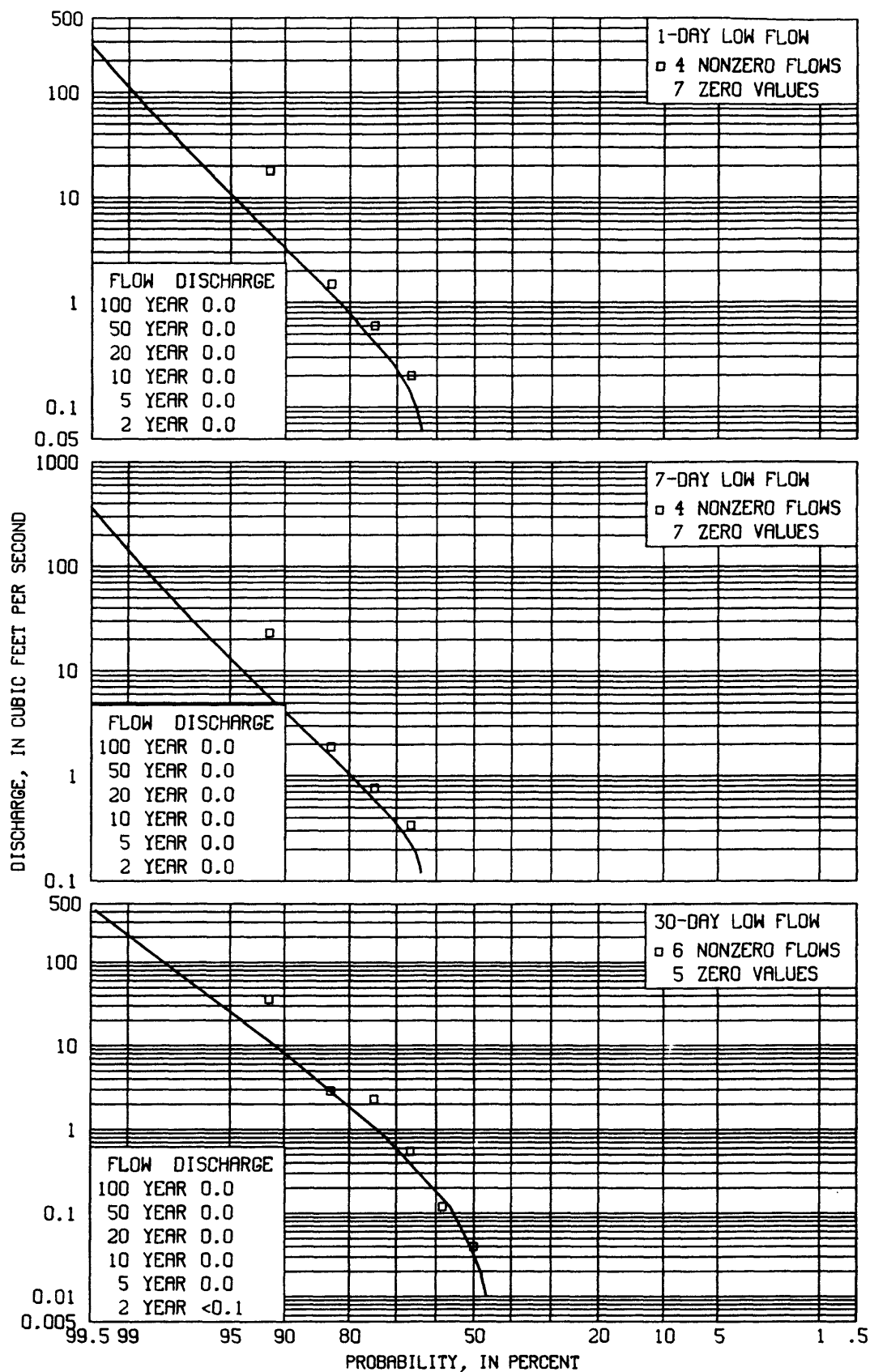
STATION 5280000 CROW RIVER AT ROCKFORD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



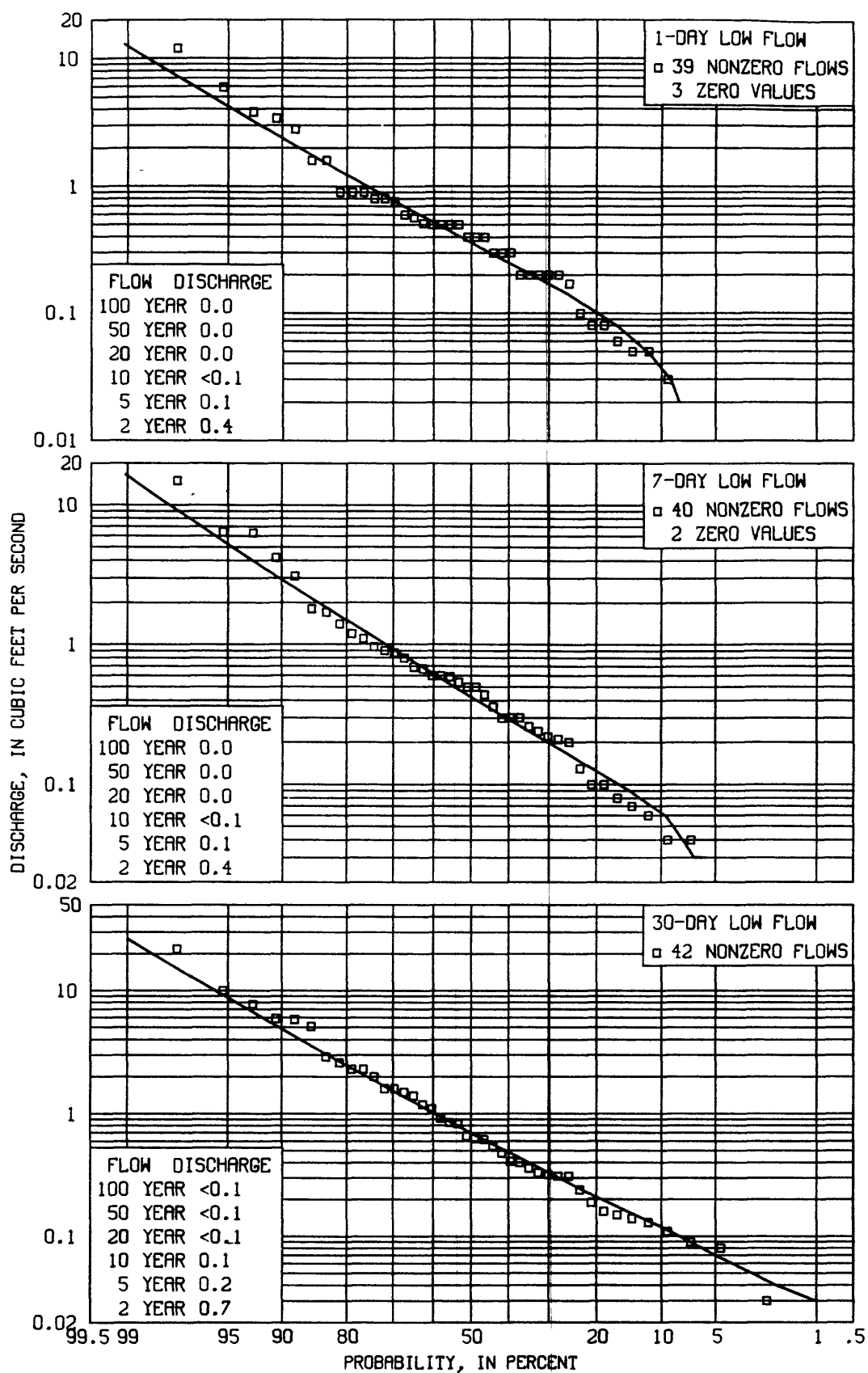
STATION 5286000 RUM RIVER NEAR ST. FRANCIS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



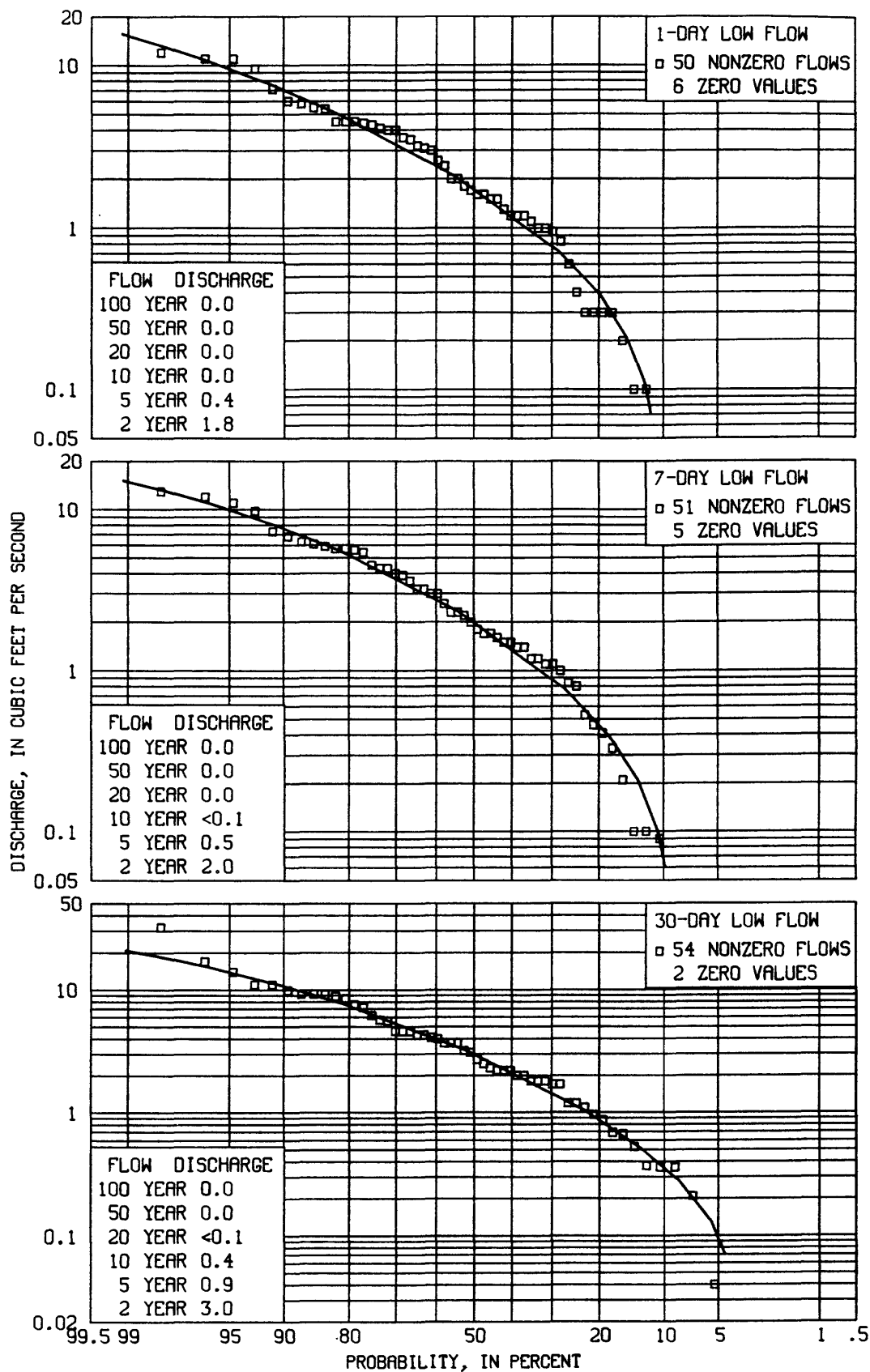
STATION 5288500 MISSISSIPPI RIVER NEAR ANOKA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



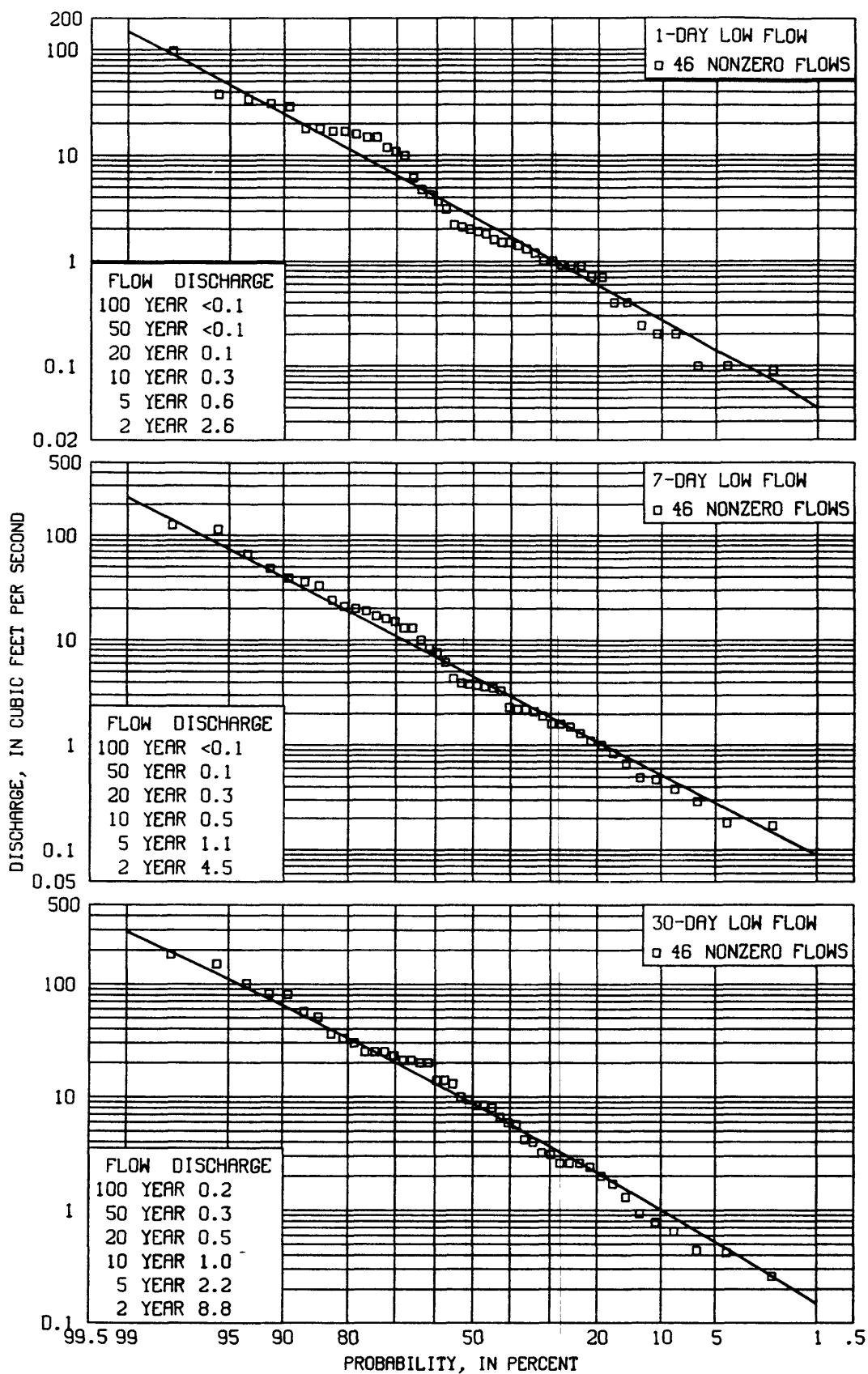
STATION 5289500 MINNEHAHA CREEK AT MINNETONKA MILLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



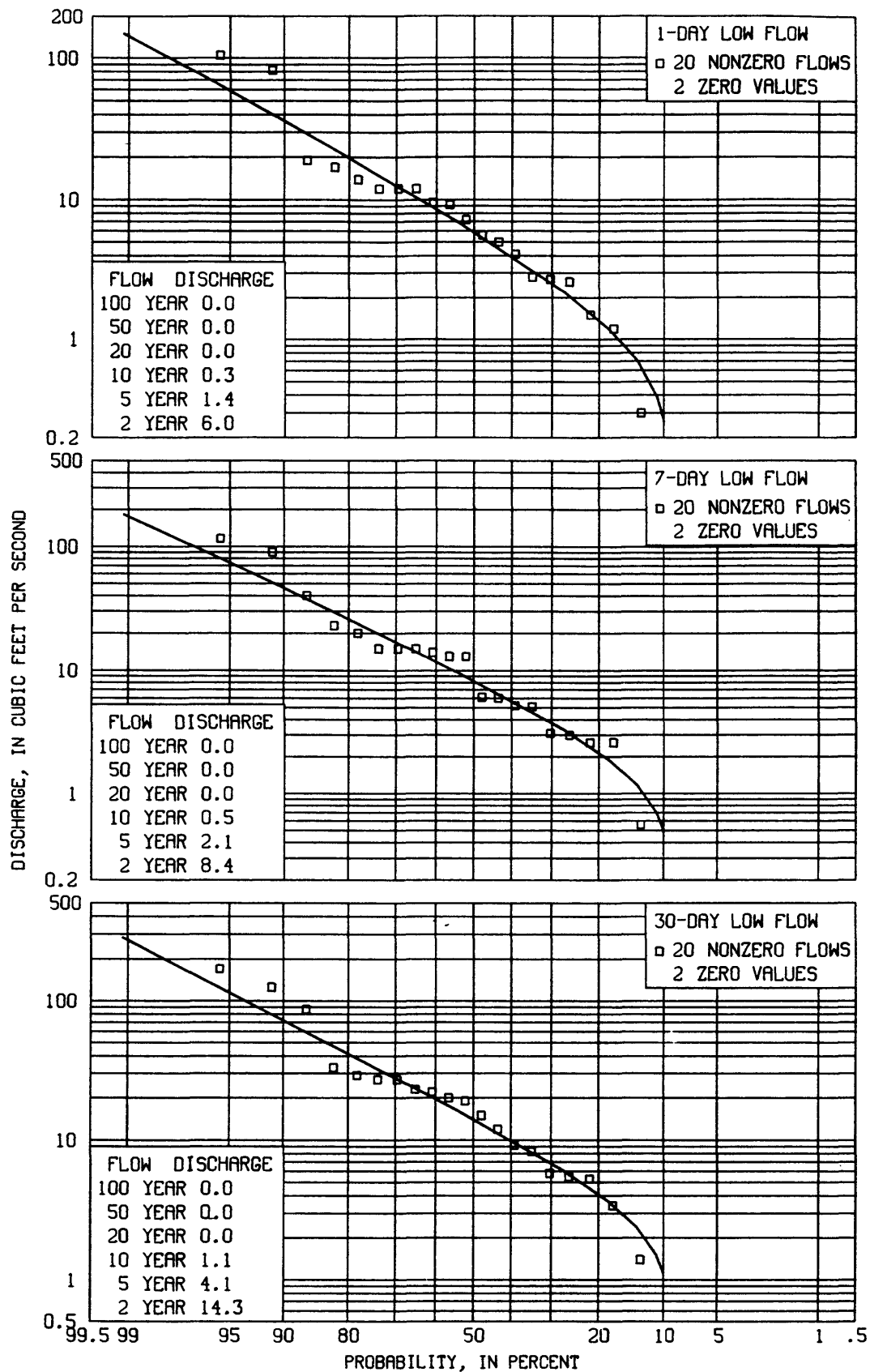
STATION 5290000 LITTLE MINNESOTA RIVER NEAR PEEVER, SD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



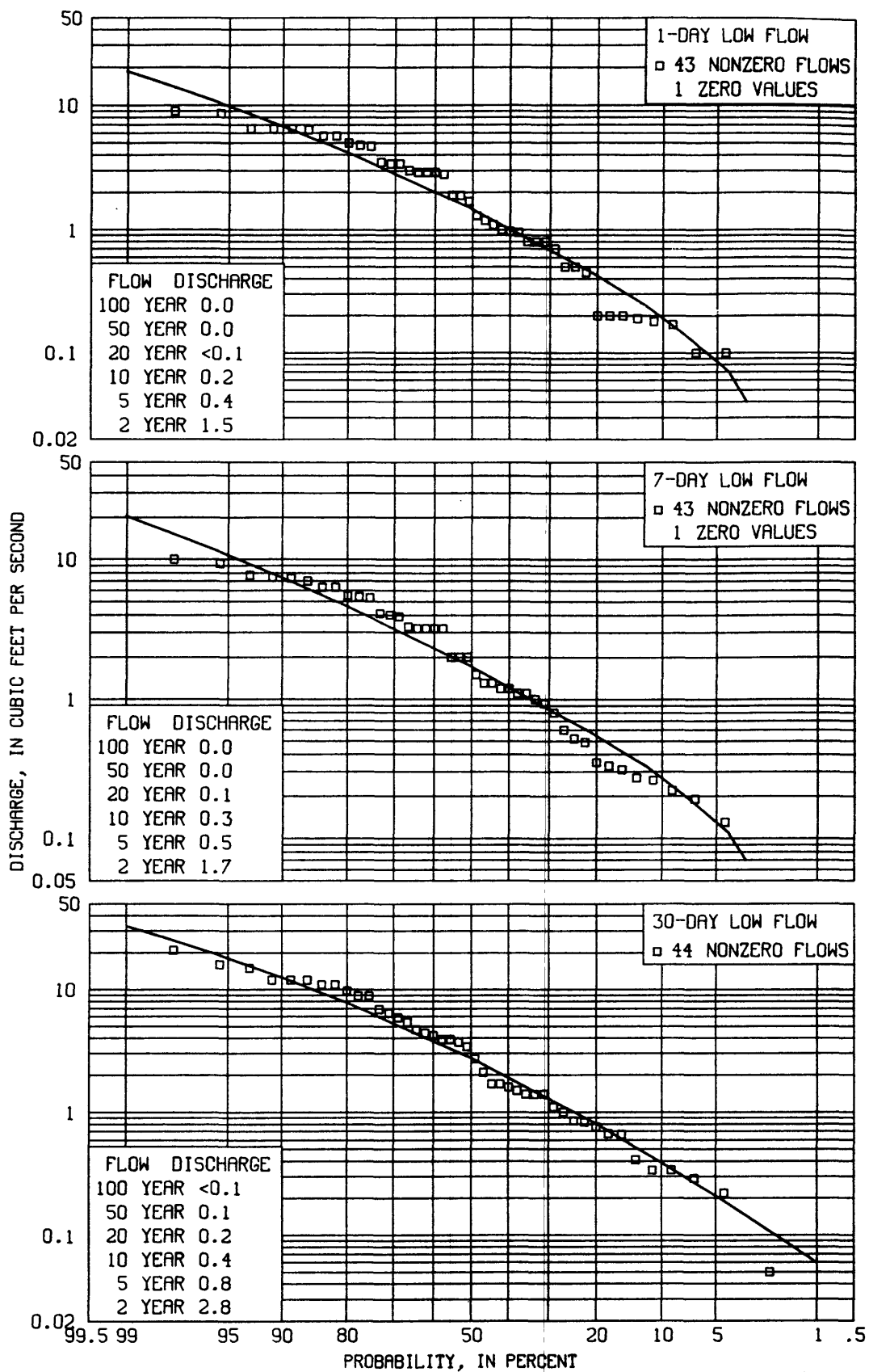
STATION 5291000 WHETSTONE RIVER NEAR BIG STONE CITY, SD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



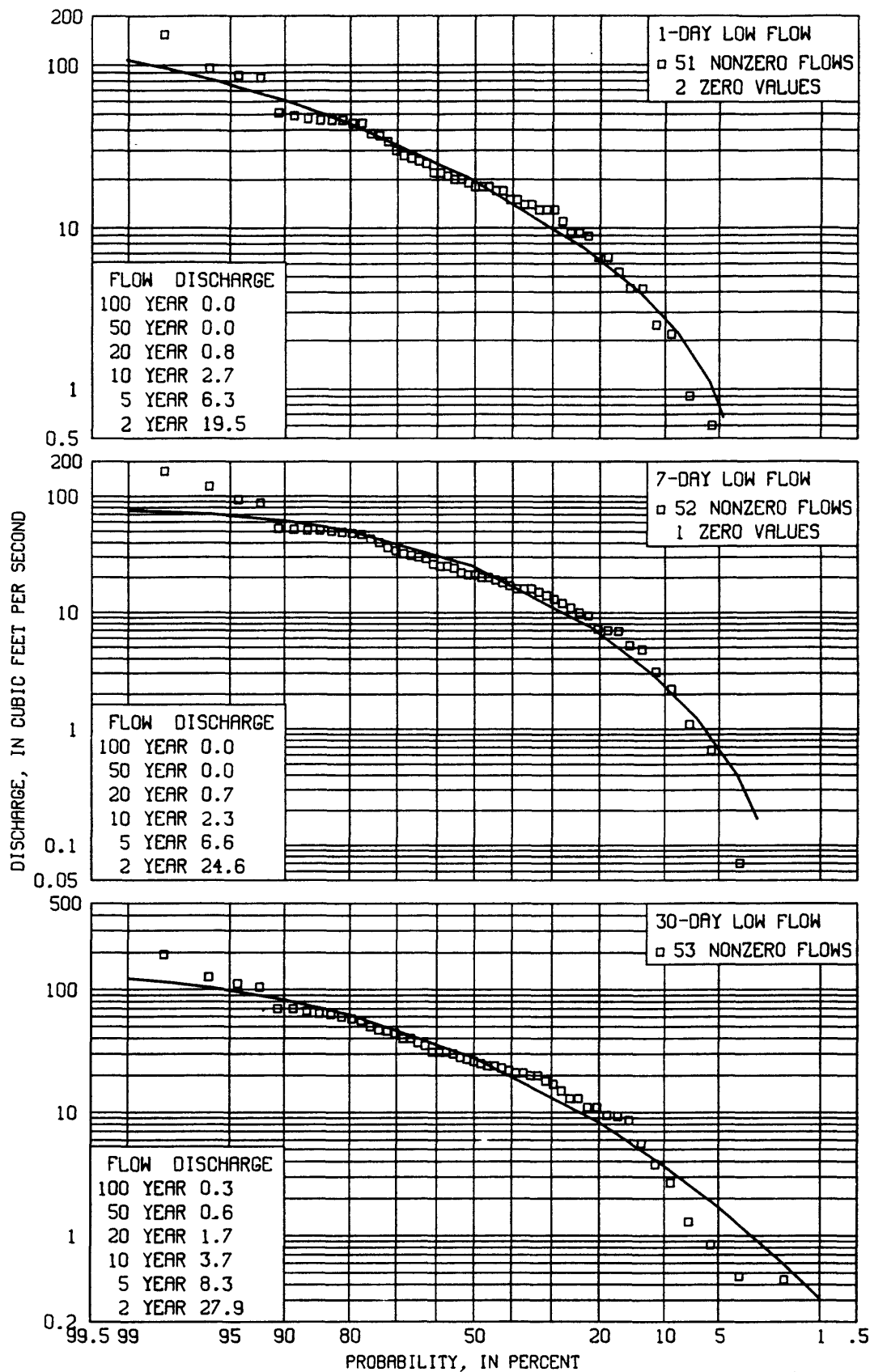
STATION 5292000 MINNESOTA RIVER AT ORTONVILLE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



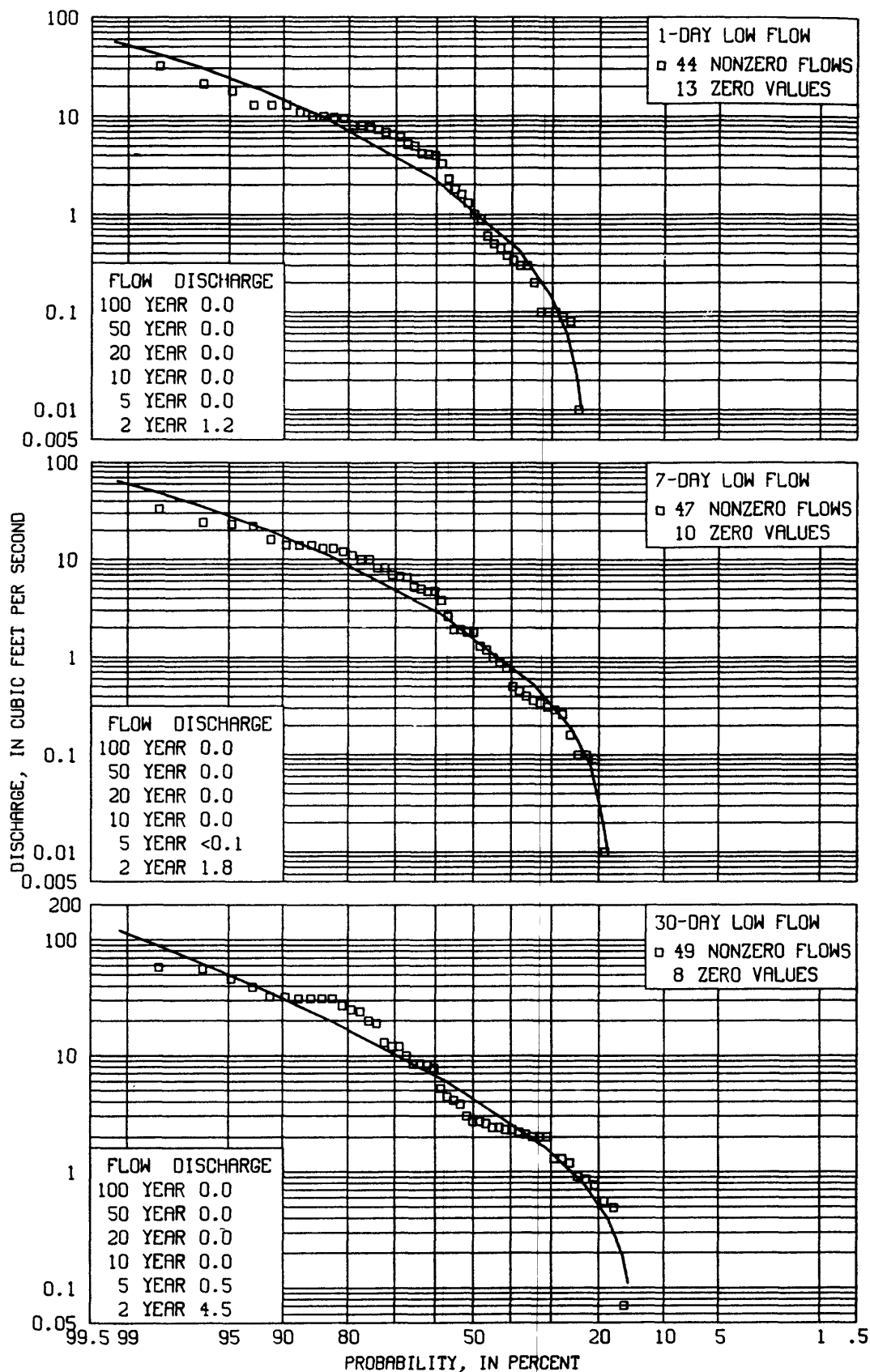
STATION 5292500 MINNESOTA RIVER NEAR ODESSA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



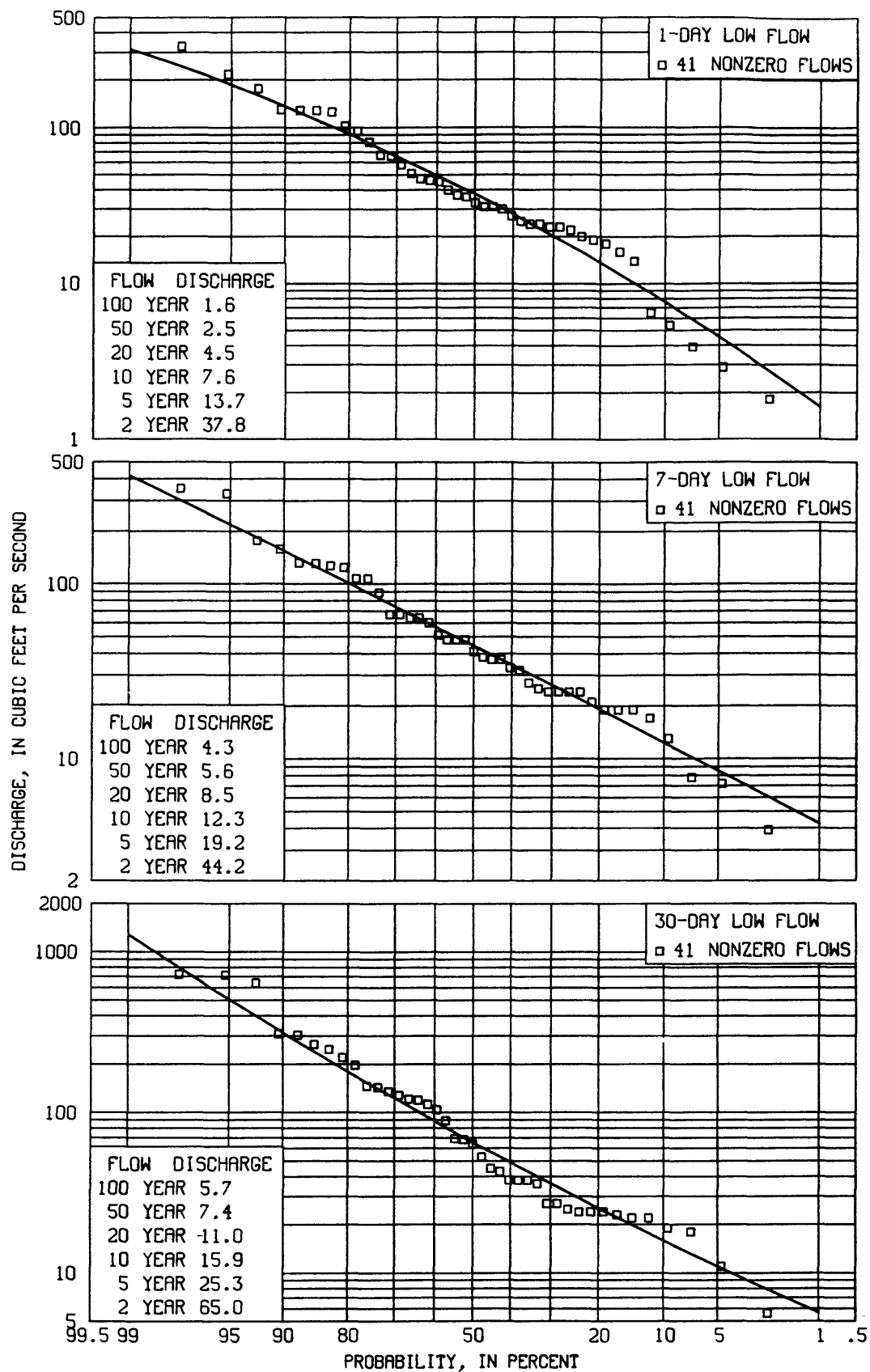
STATION 5293000 YELLOW BANK RIVER NEAR ODESSA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



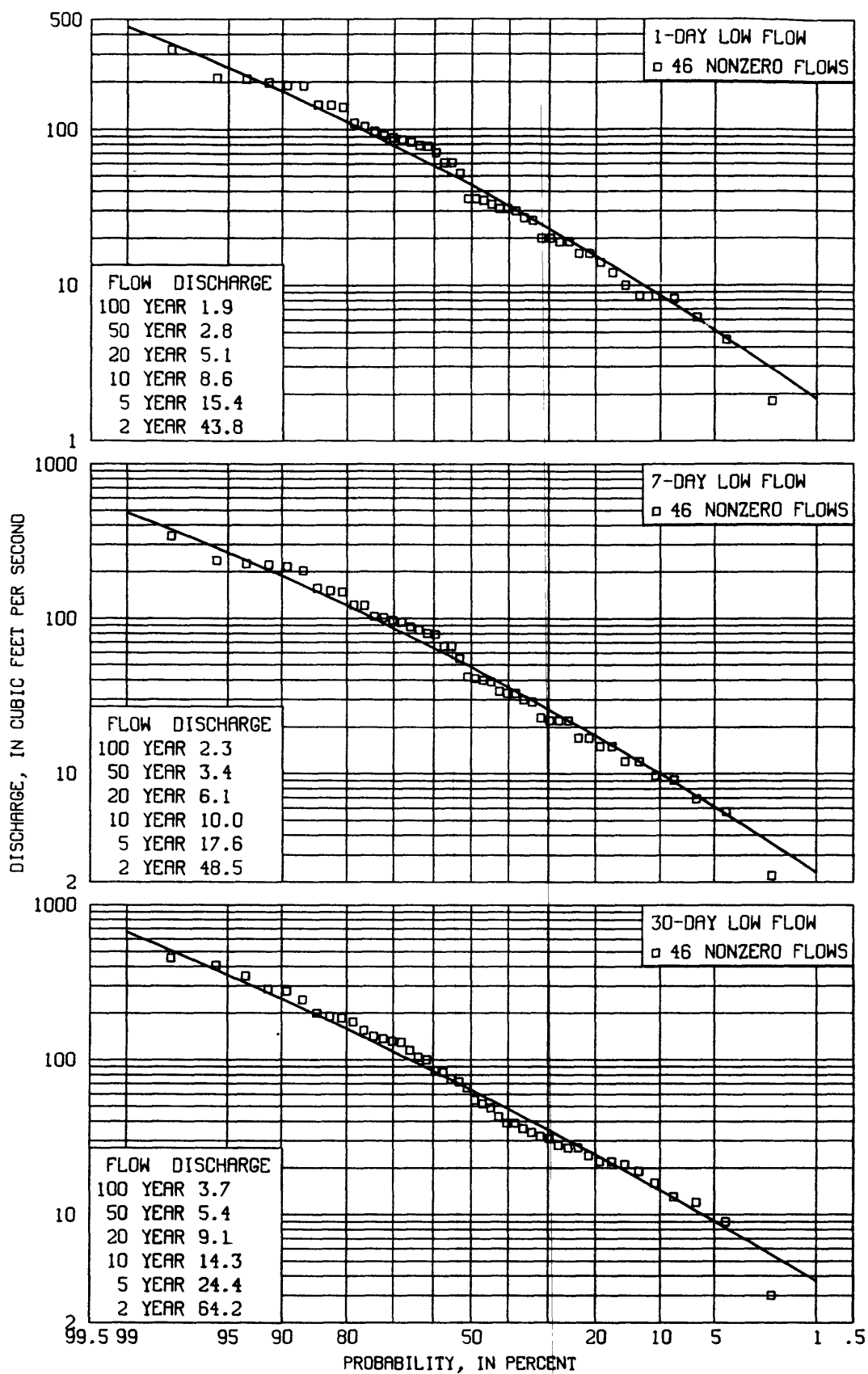
STATION 5294000 POMME DE TERRE RIVER AT APPLETON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



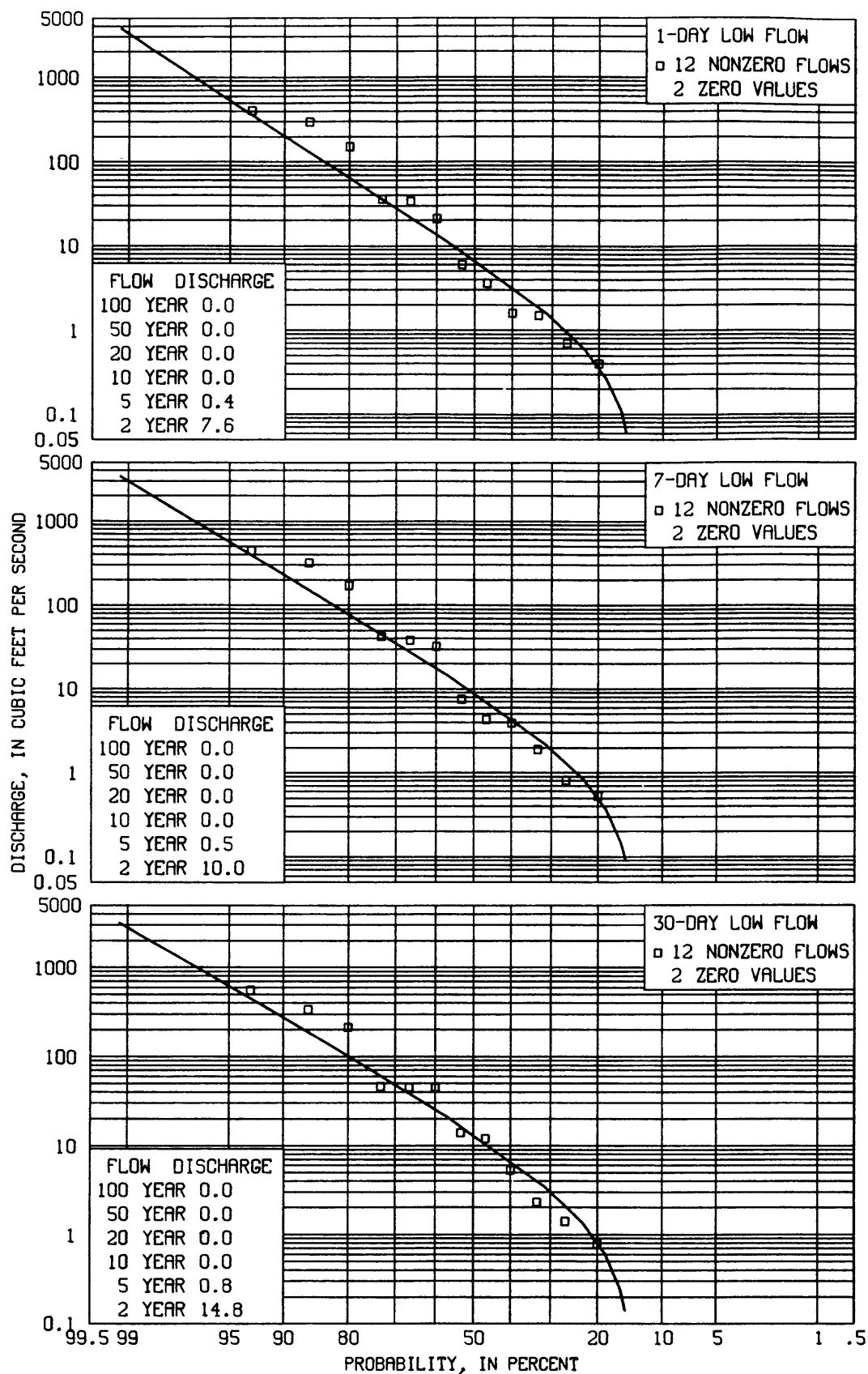
STATION 5300000 LAC QUI PARLE RIVER NEAR LAC QUI PARLE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



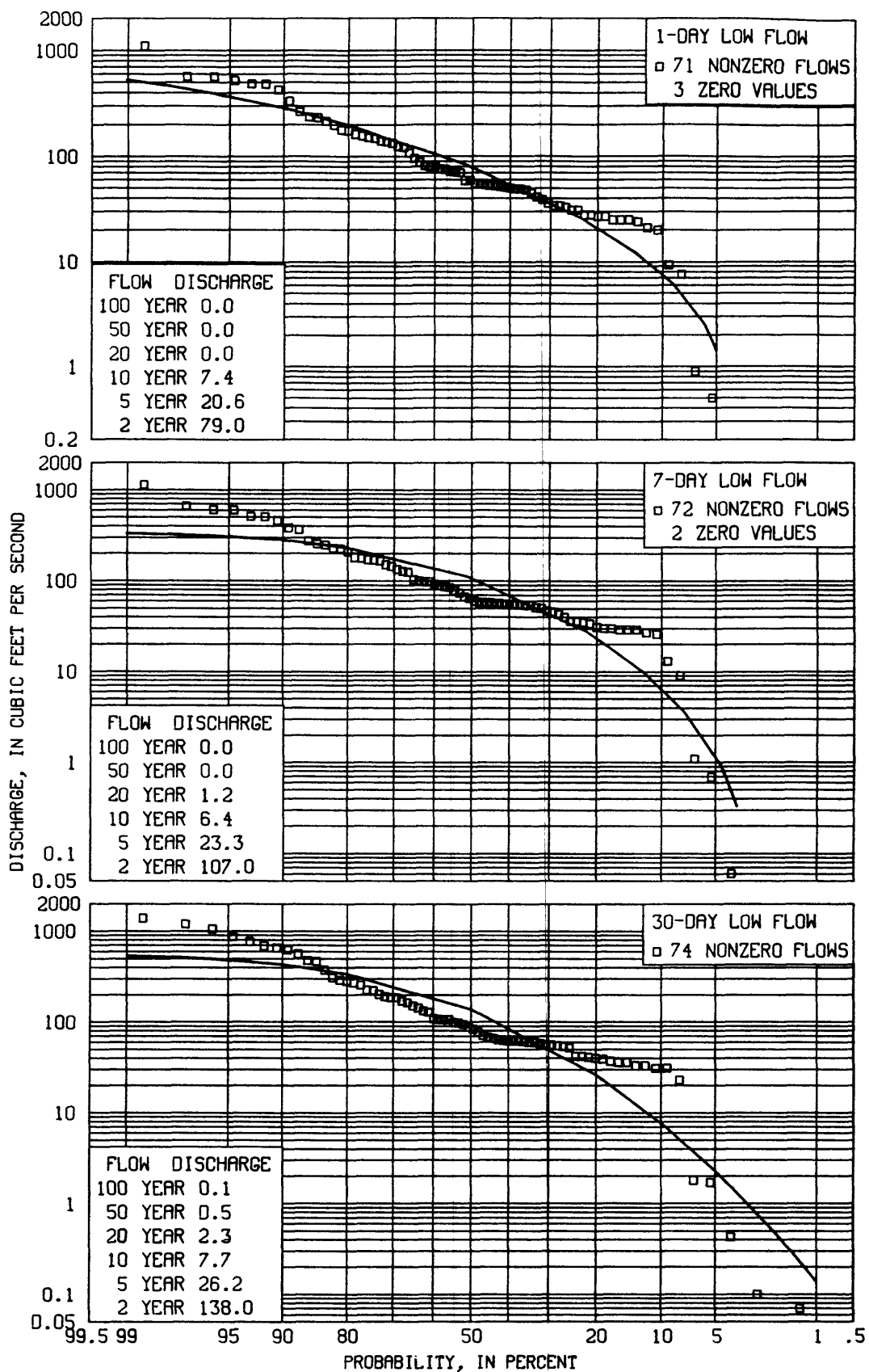
STATION 5301000 MINNESOTA RIVER NEAR LAC QUI PARLE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



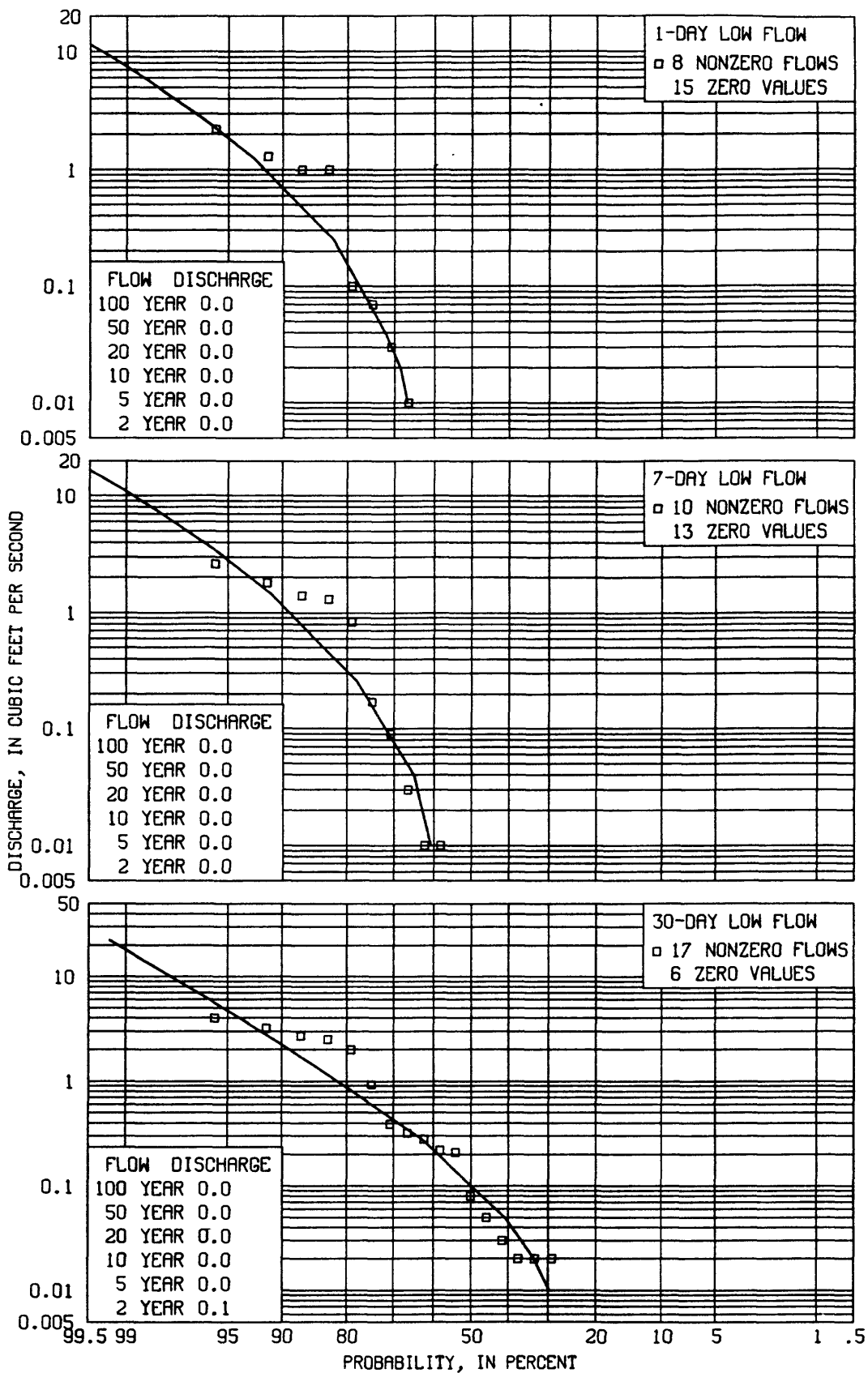
STATION 5304500 CHIPPEWA RIVER NEAR MILAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



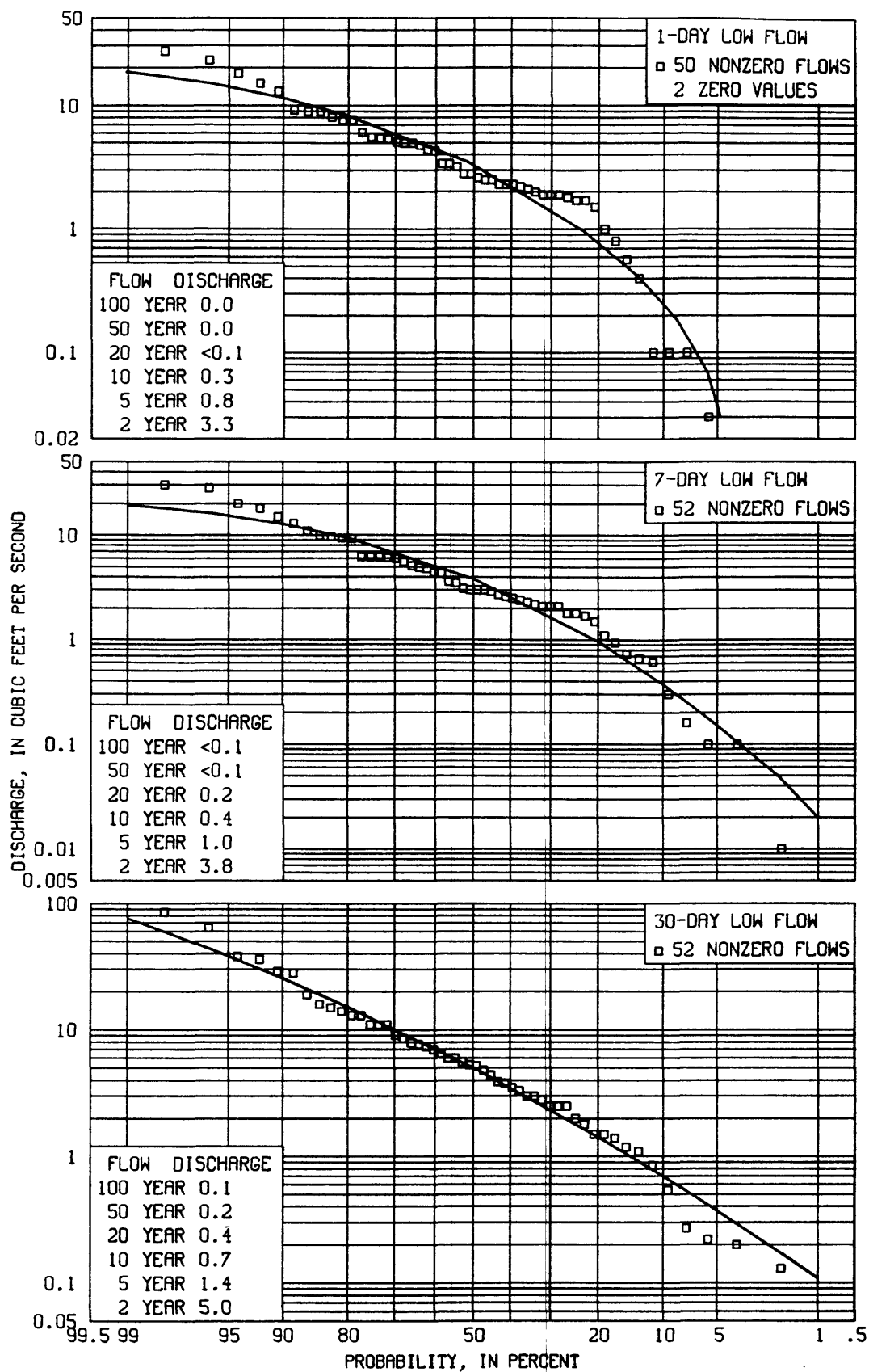
STATION 5305000 CHIPPEWA RIVER NEAR WATSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



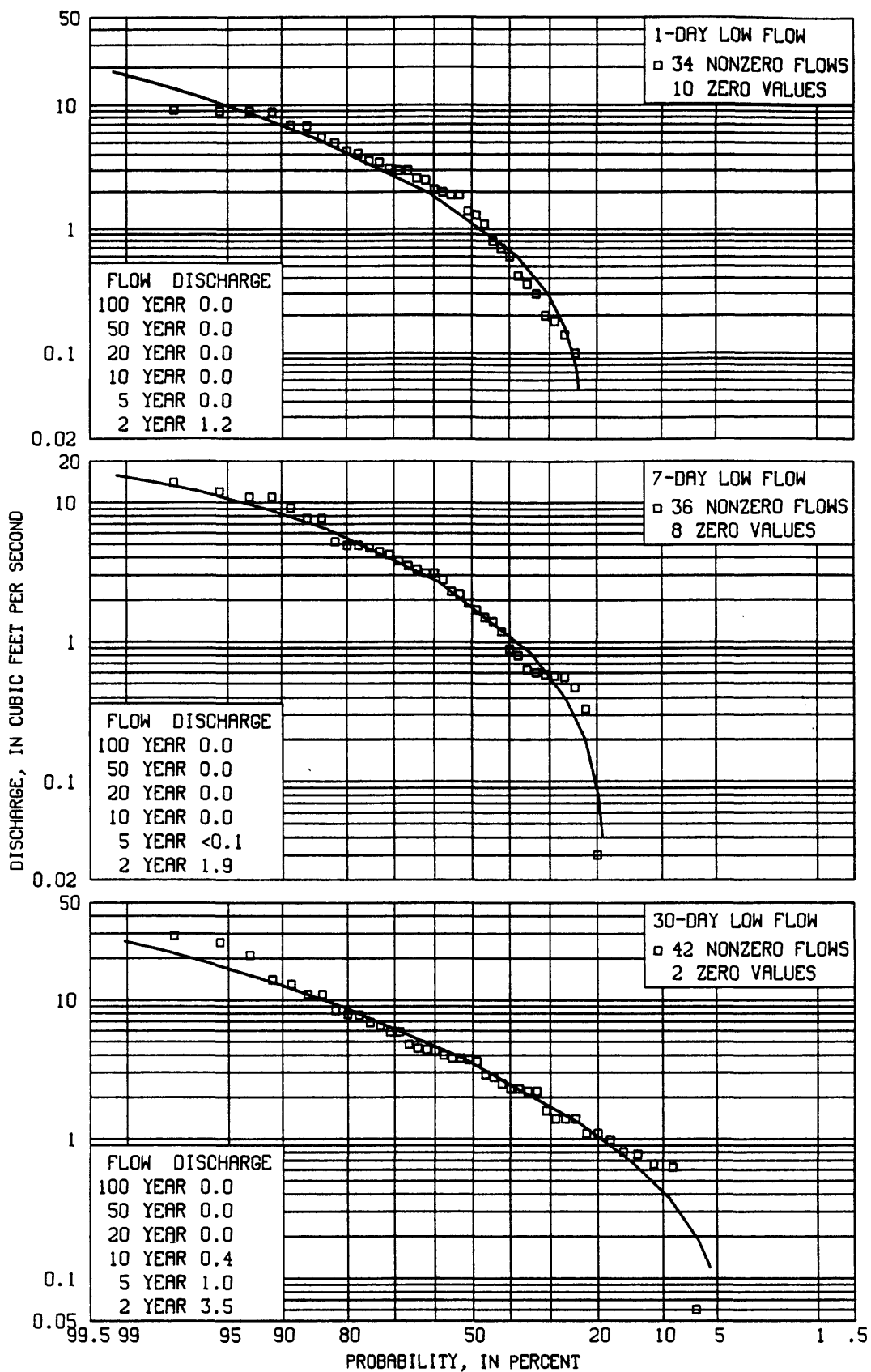
STATION 5311000 MINNESOTA RIVER AT MONTEVIDEO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



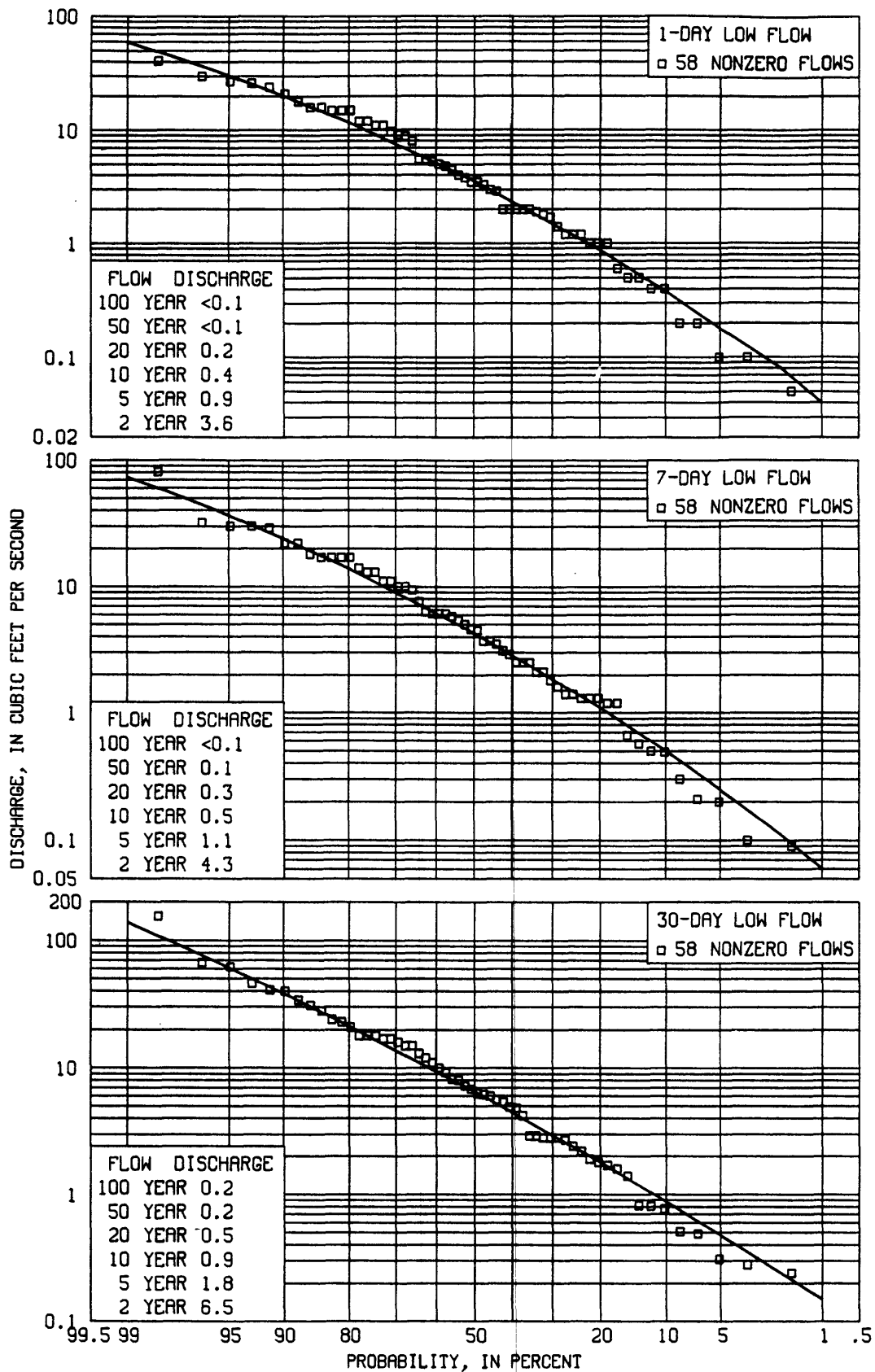
STATION 5311400 SOUTH BRANCH YELLOW MEDICINE RIVER AT MINNEOTA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



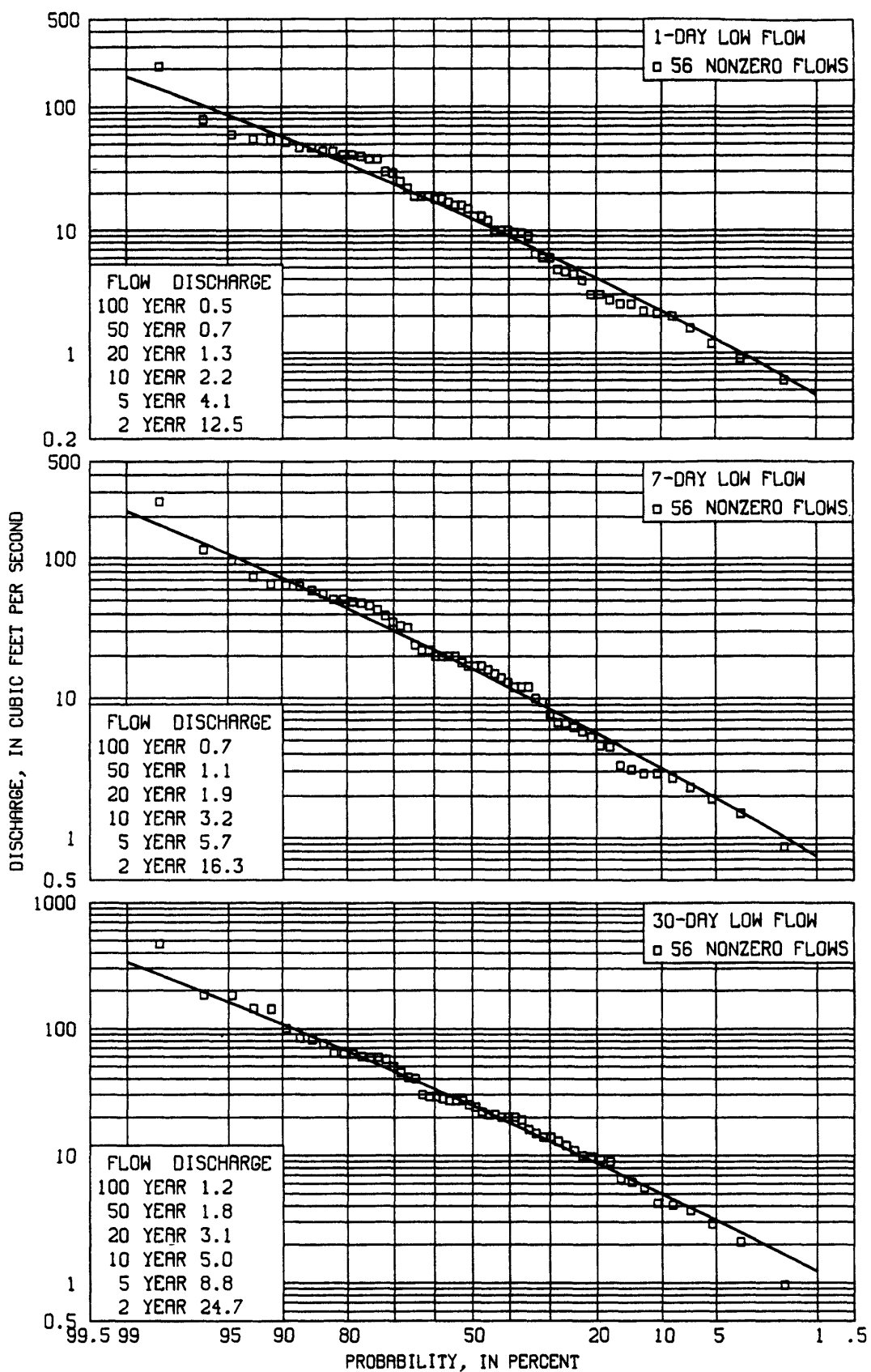
STATION 5313500 YELLOW MEDICINE RIVER NEAR GRANITE FALLS
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



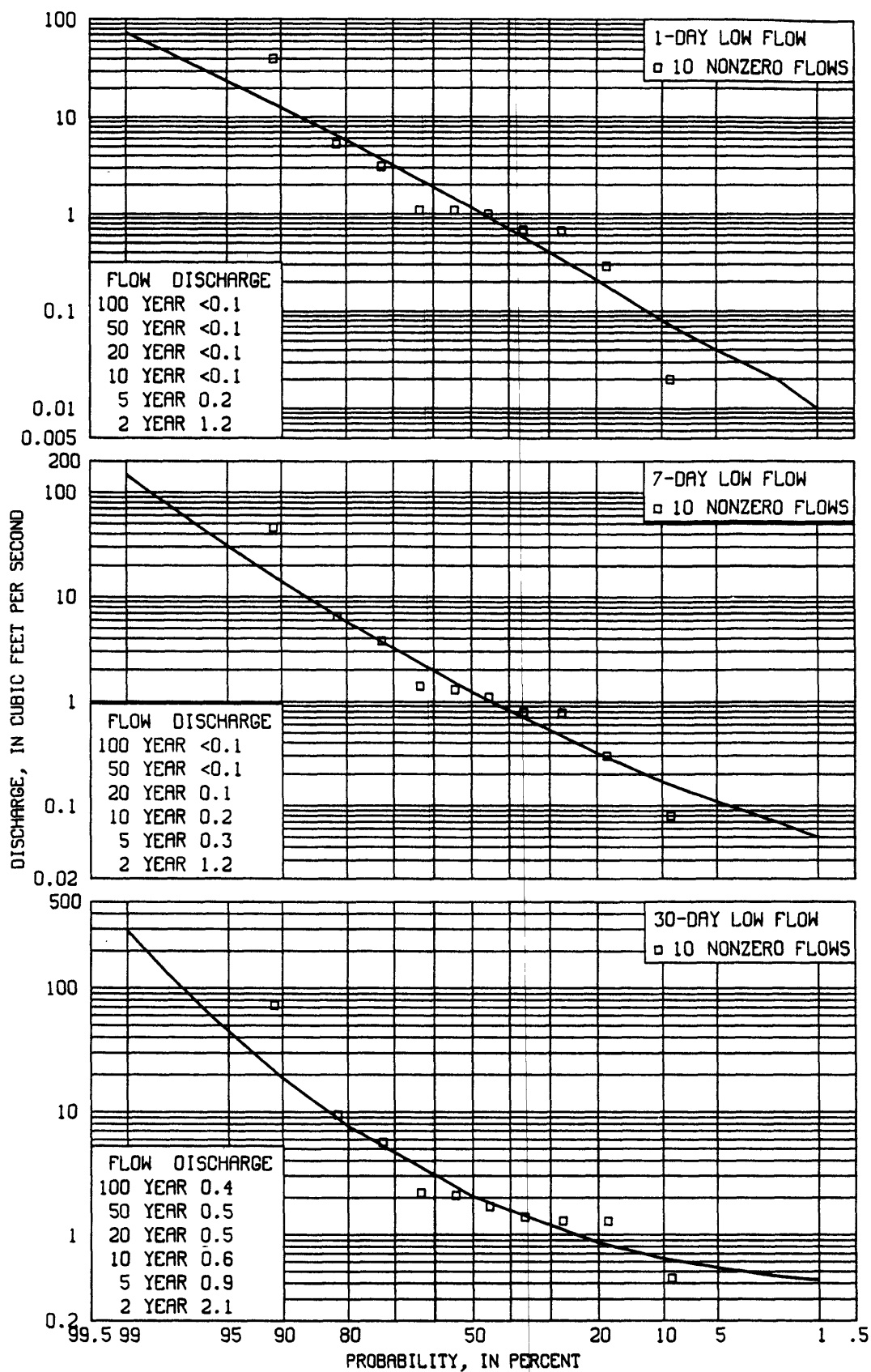
STATION 5315000 REDWOOD RIVER NEAR MARSHALL
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



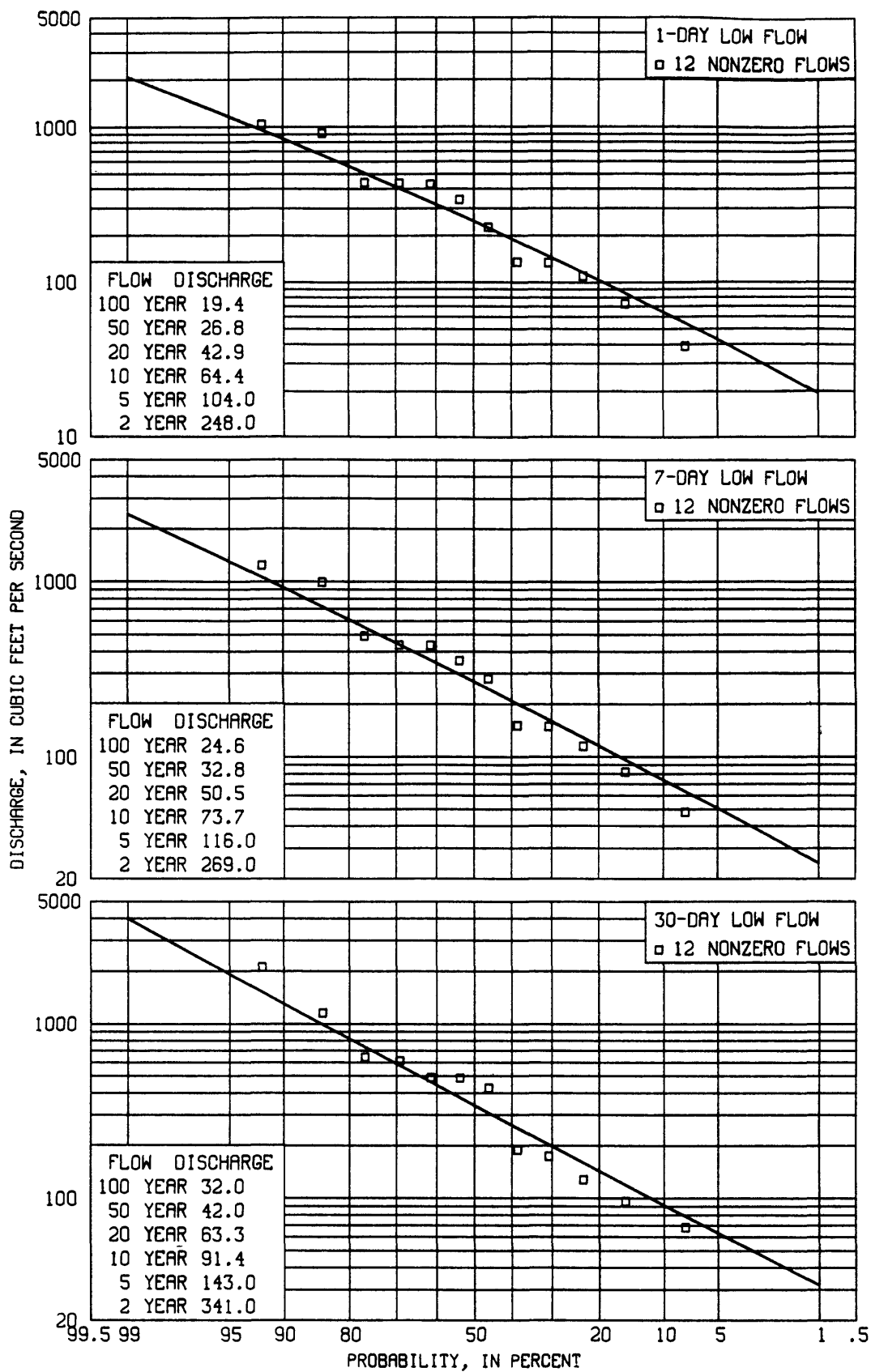
STATION 5316500 REDWOOD RIVER NEAR REDWOOD FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



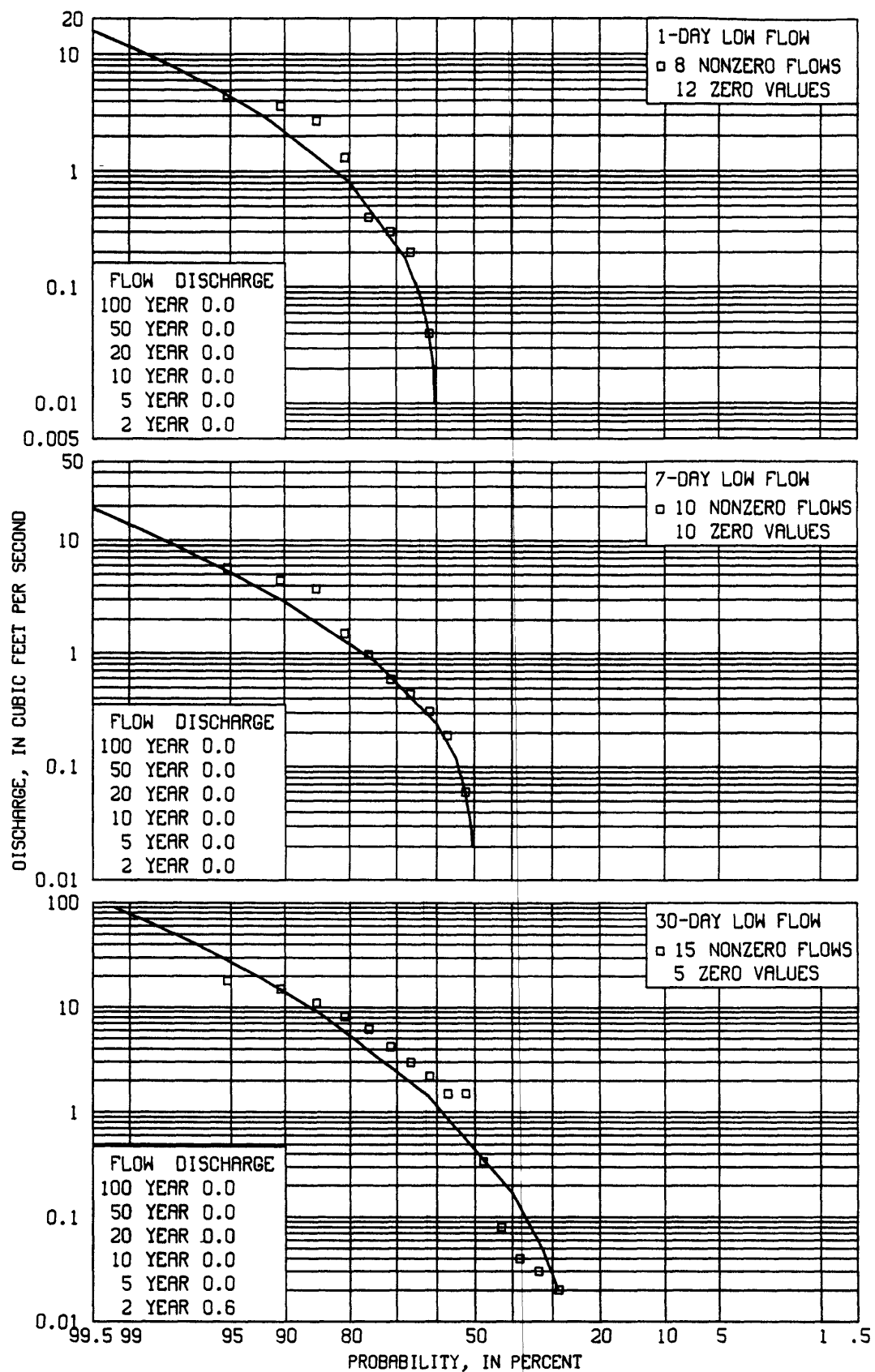
STATION 5317000 COTTONWOOD RIVER NEAR NEW ULM
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



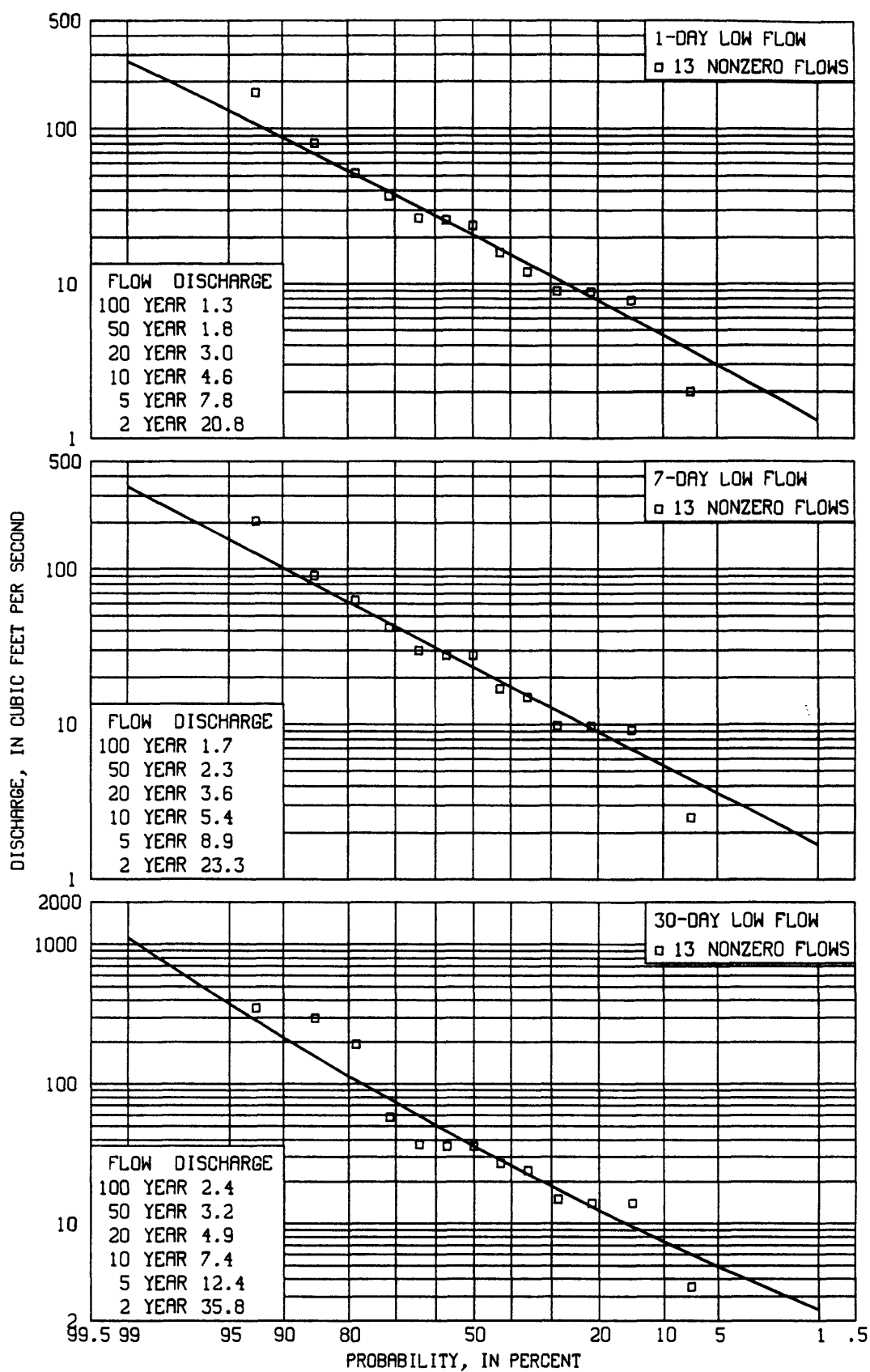
STATION 5317200 LITTLE COTTONWOOD RIVER NEAR COURTLAND
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



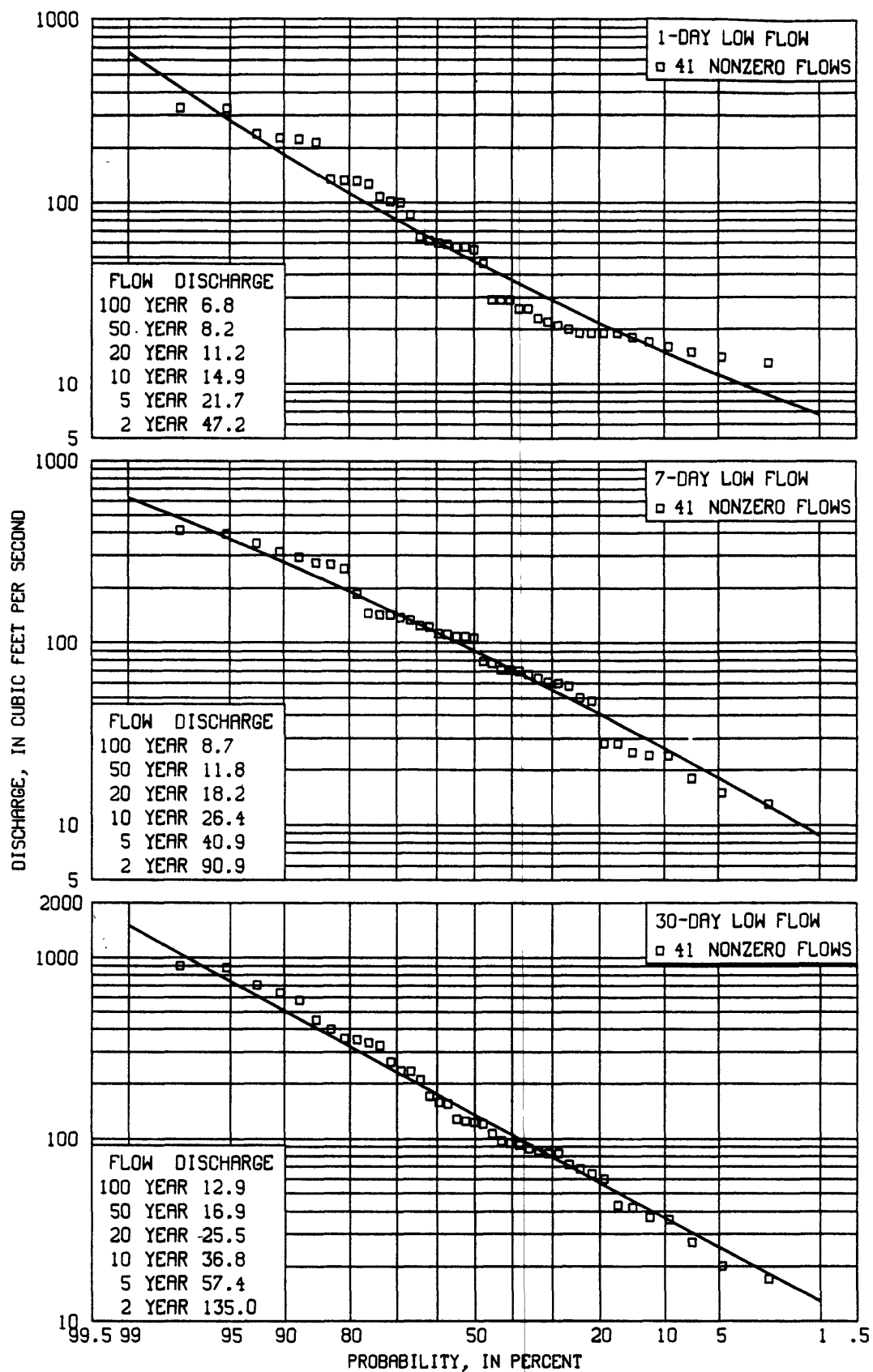
STATION 5317500 MINNESOTA RIVER AT JUDSON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



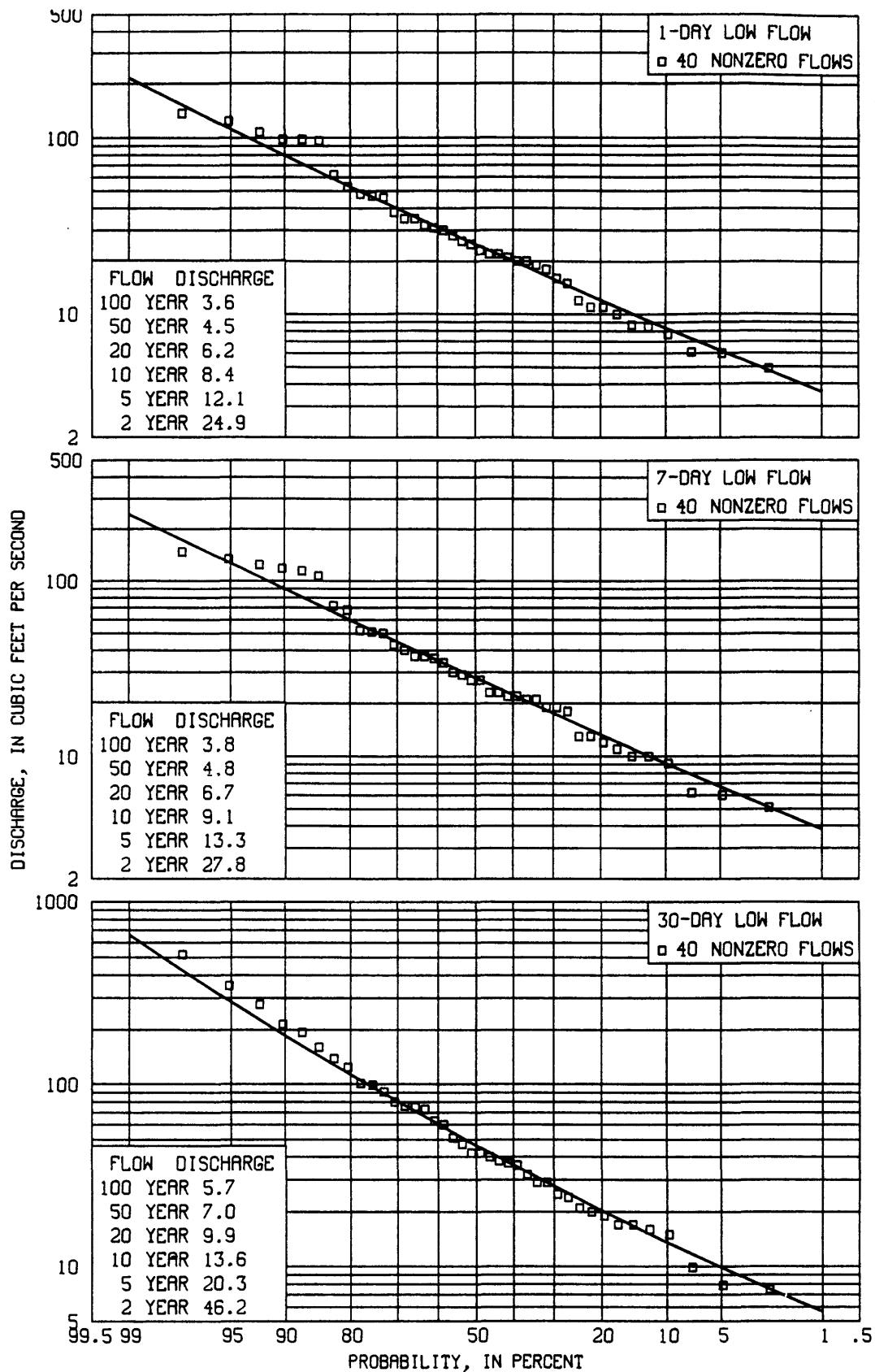
STATION 5318000 EAST BRANCH BLUE EARTH RIVER NEAR BRICELYN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



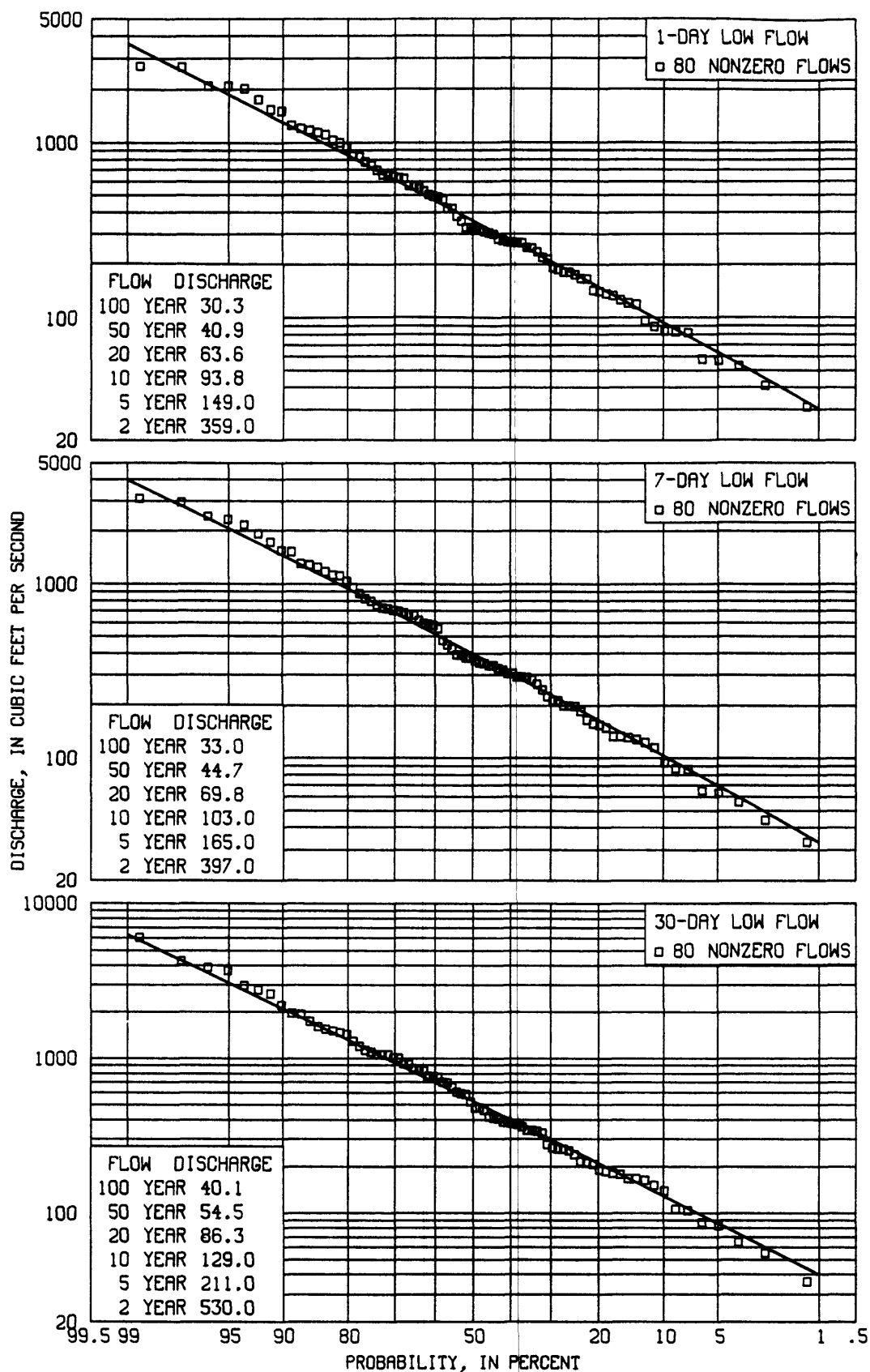
STATION 5319500 WATONWAN RIVER NEAR GARDEN CITY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



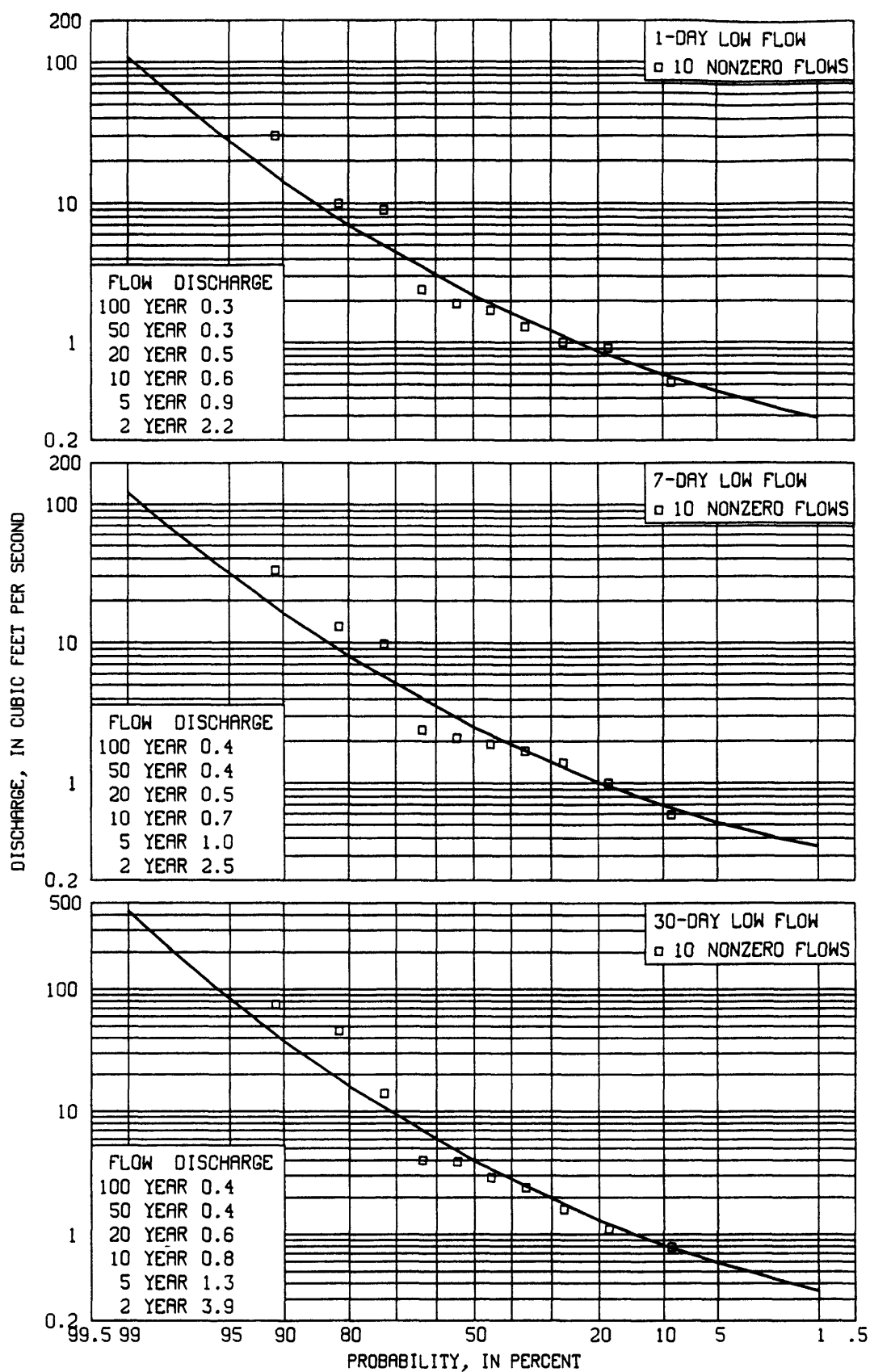
STATION 5320000 BLUE EARTH RIVER NEAR RAPIDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



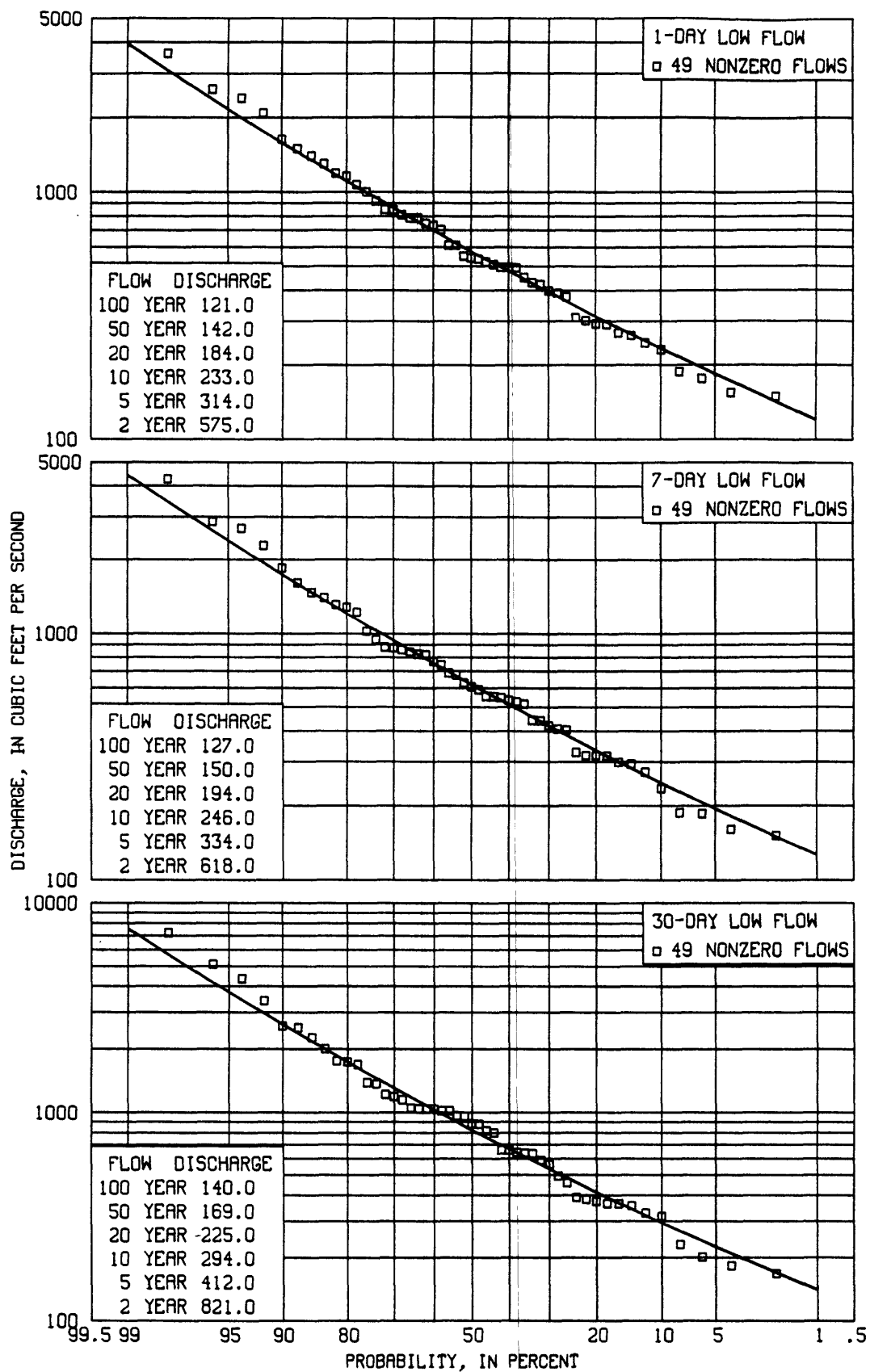
STATION 5320500 LE SUEUR RIVER NEAR RAPIDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



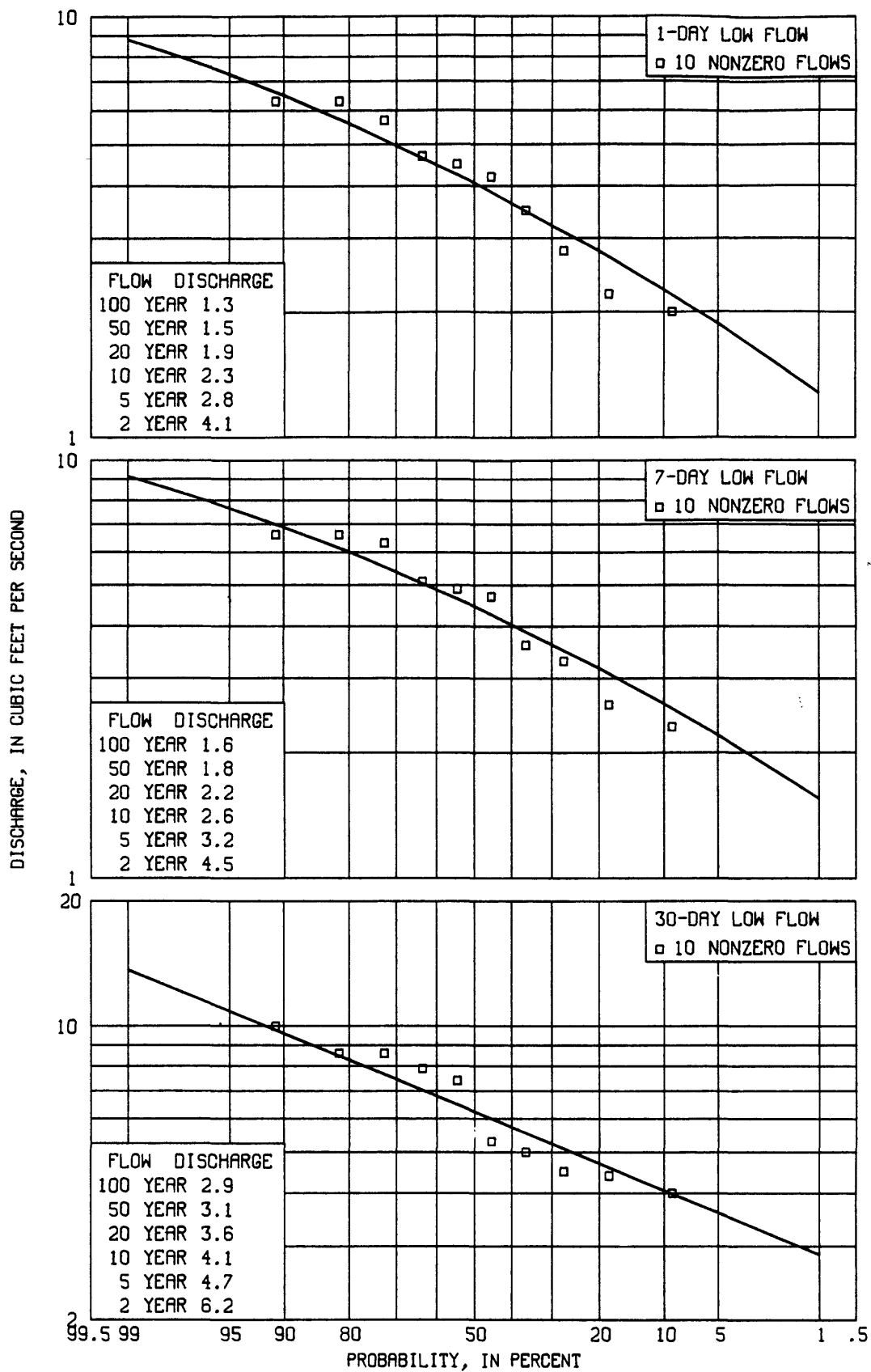
STATION 5325000 MINNESOTA RIVER AT MANKATO
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



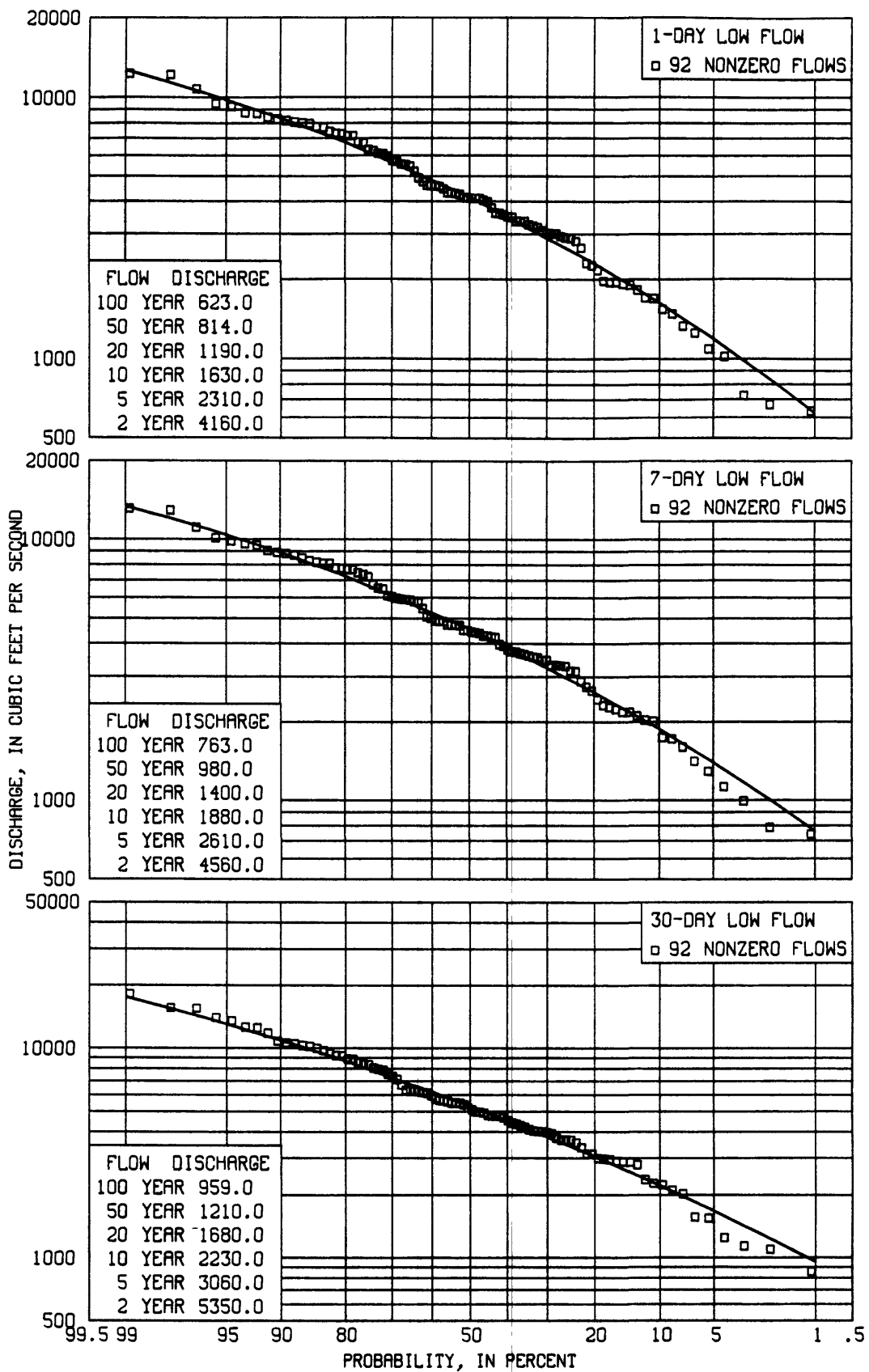
STATION 5327000 HIGH ISLAND CREEK NEAR HENDERSON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



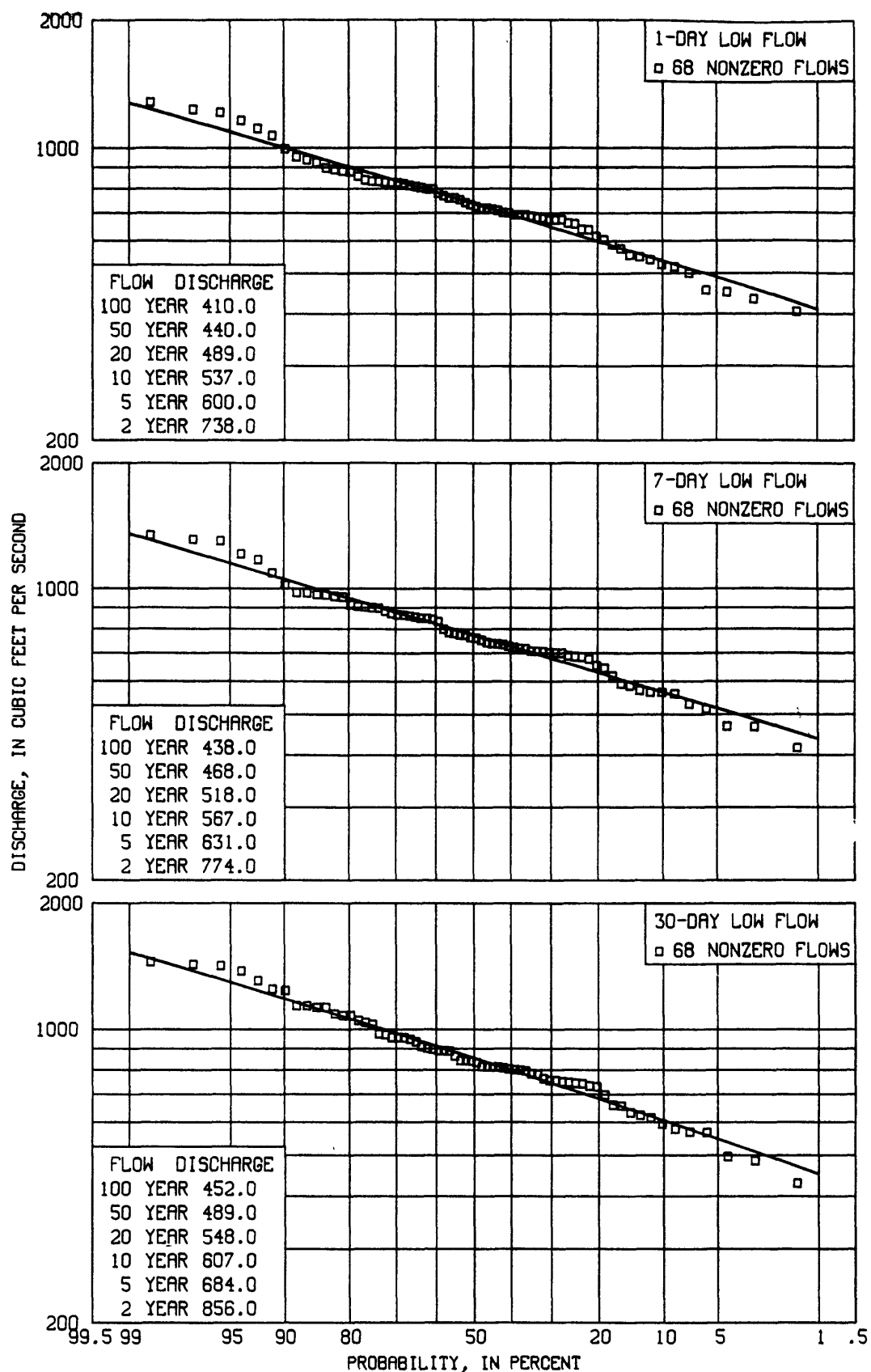
STATION 5330000 MINNESOTA RIVER NEAR JORDAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



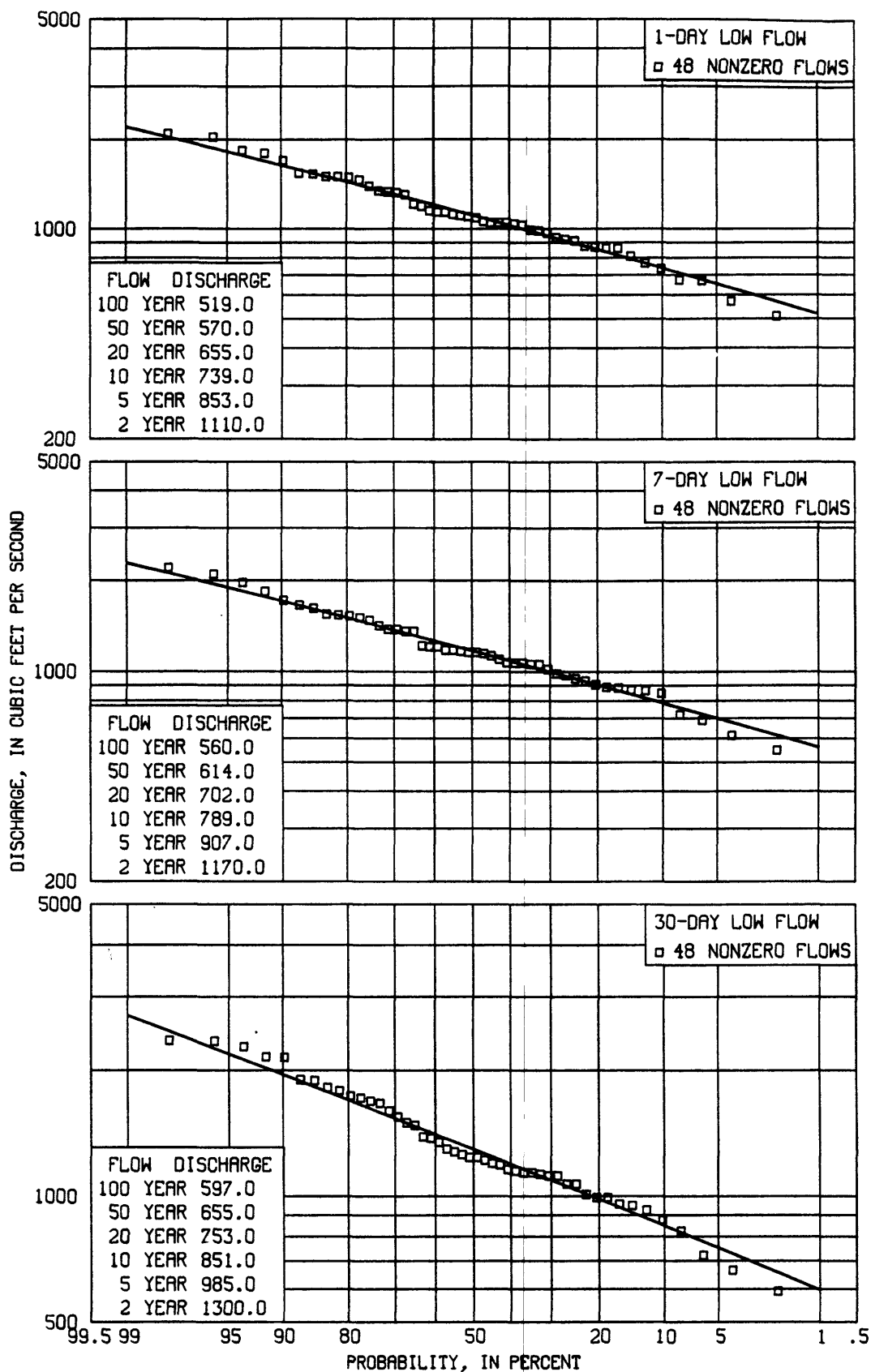
STATION 5330900 NINE MILE CREEK AT BLOOMINGTON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



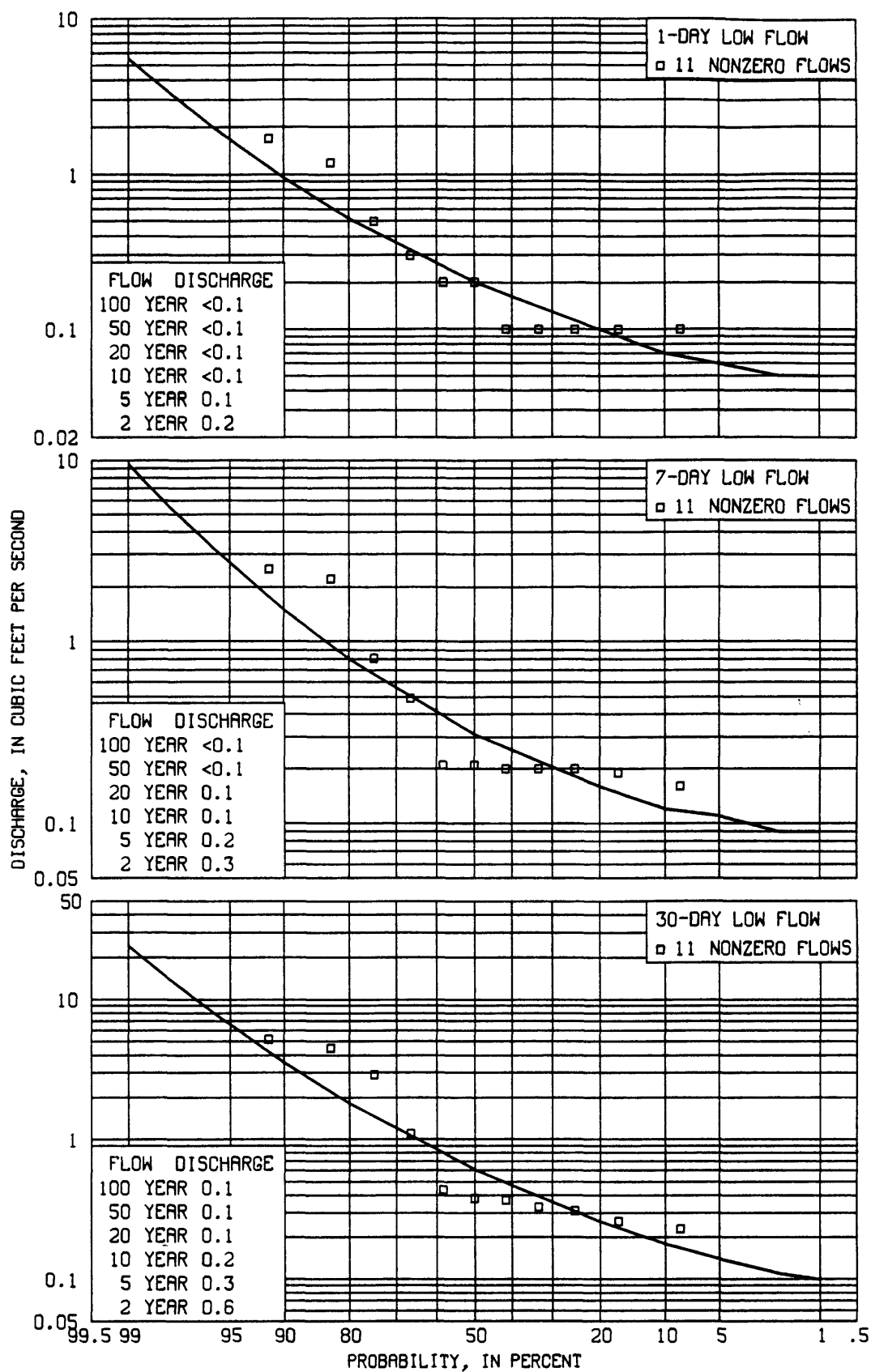
STATION 5331000 MISSISSIPPI RIVER AT ST. PAUL
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



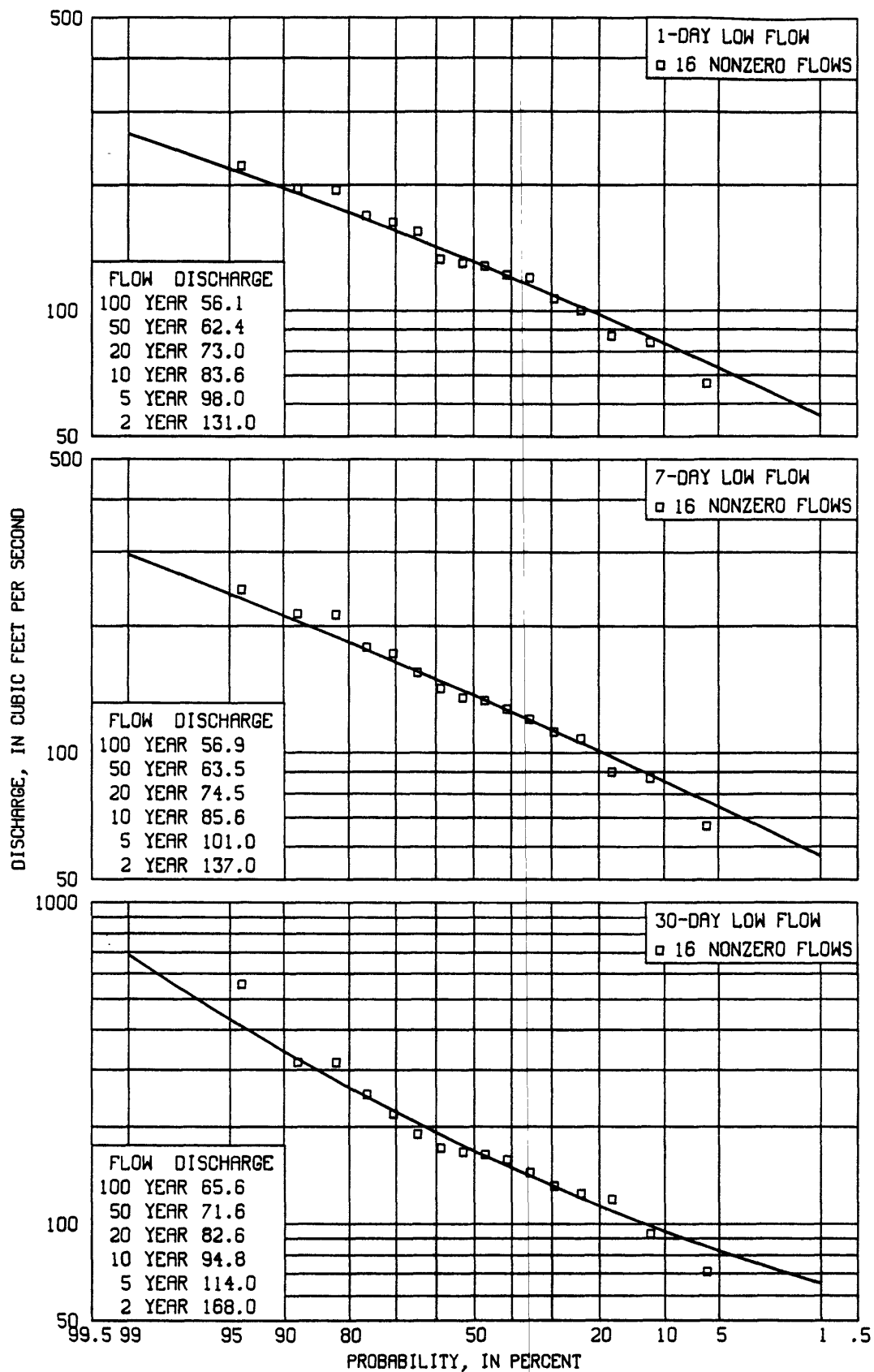
STATION 5333500 ST. CROIX RIVER NEAR DANBURY, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



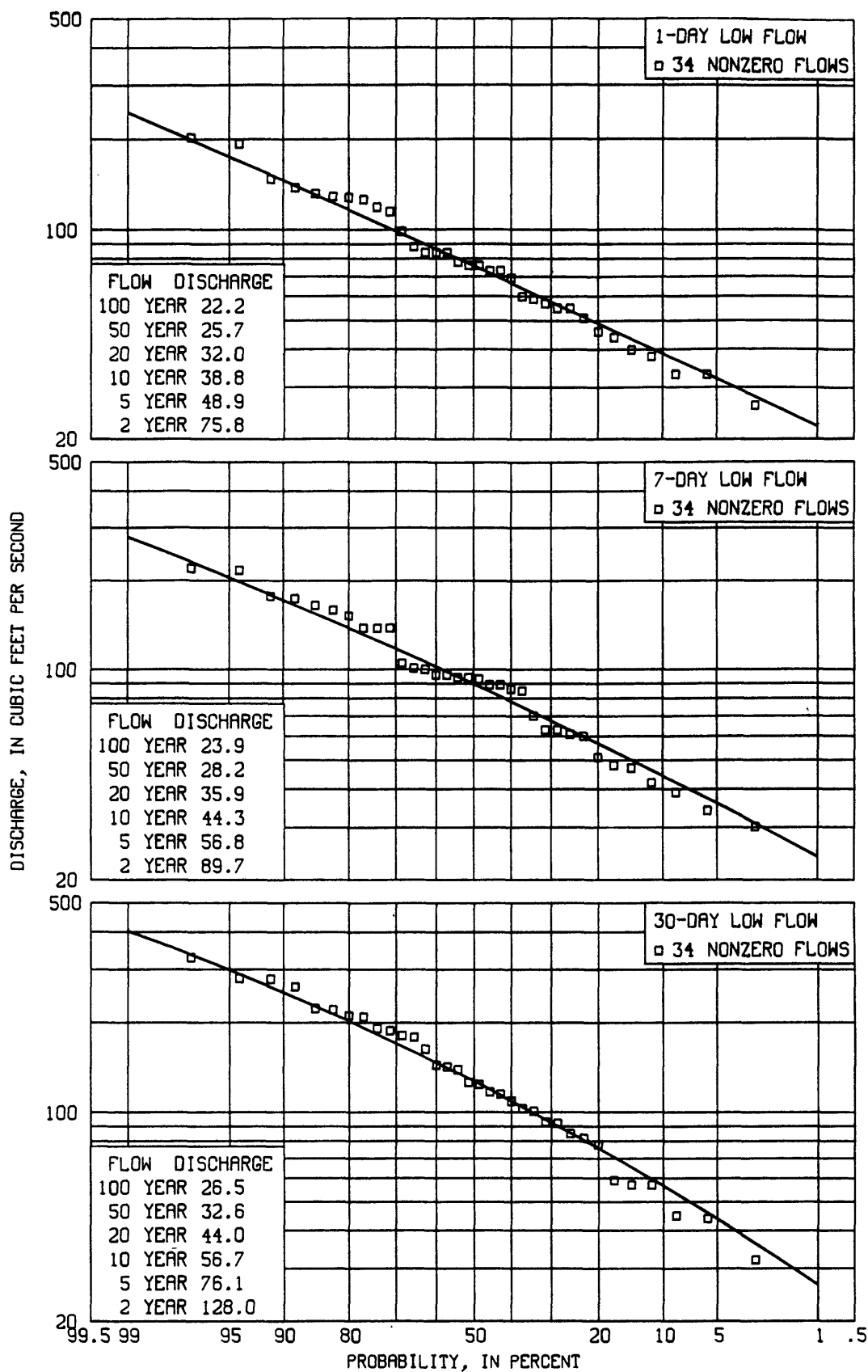
STATION 5336000 ST. CROIX RIVER NEAR GRANTSBURG, WI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



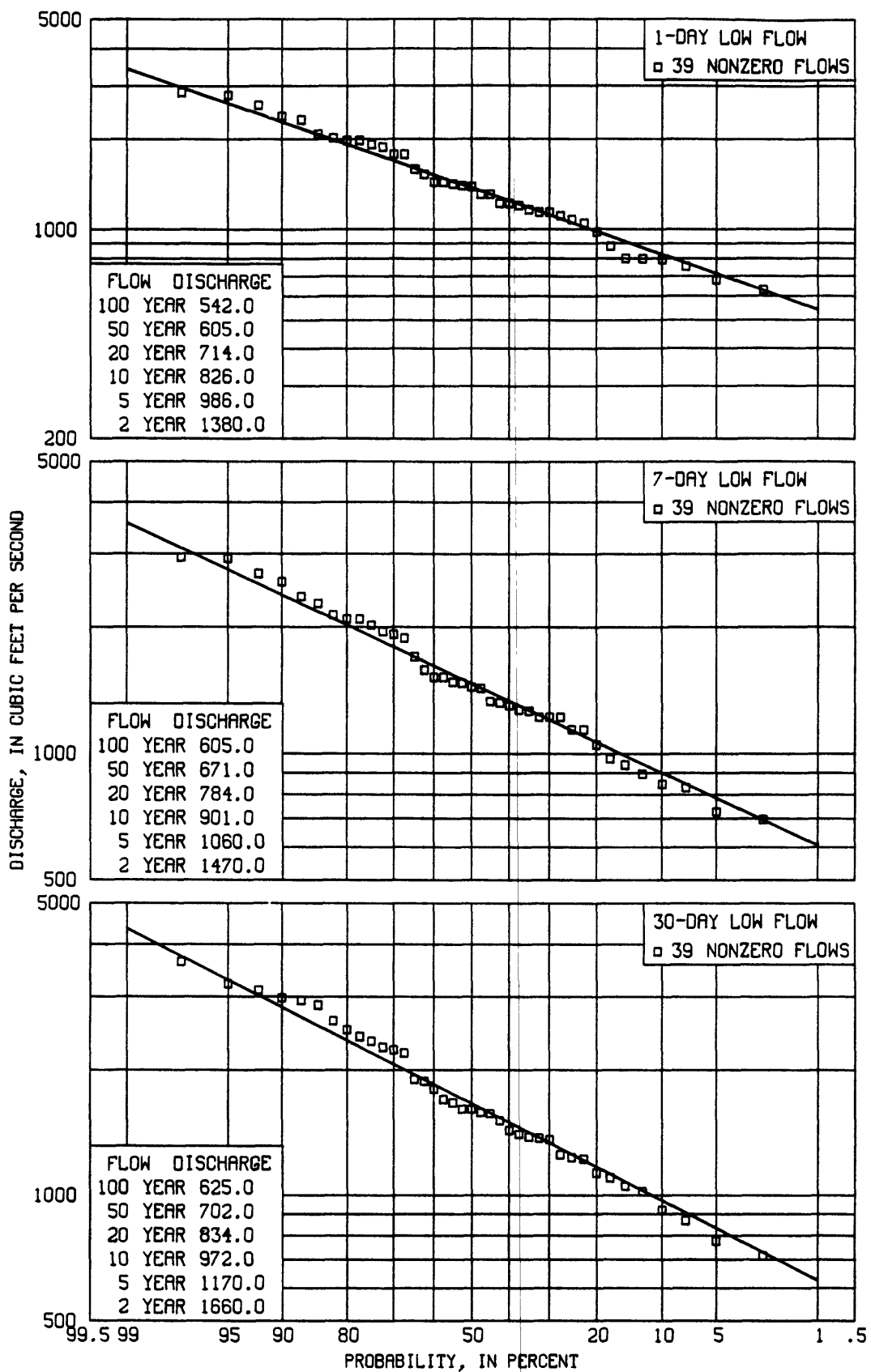
STATION 5336200 GLAISBY BROOK NEAR KETTLE RIVER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



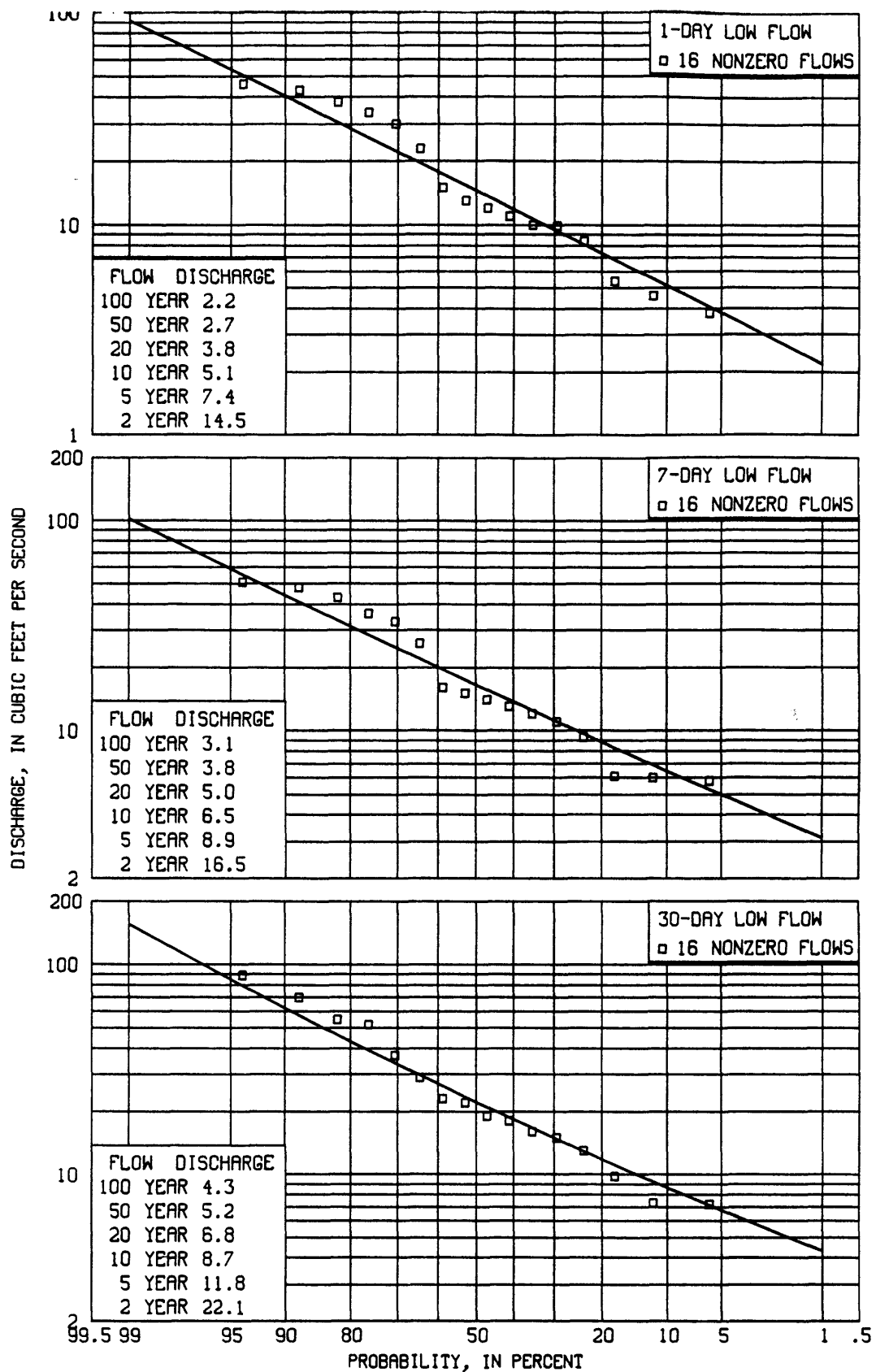
STATION 5336700 KETTLE RIVER BELOW SANDSTONE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



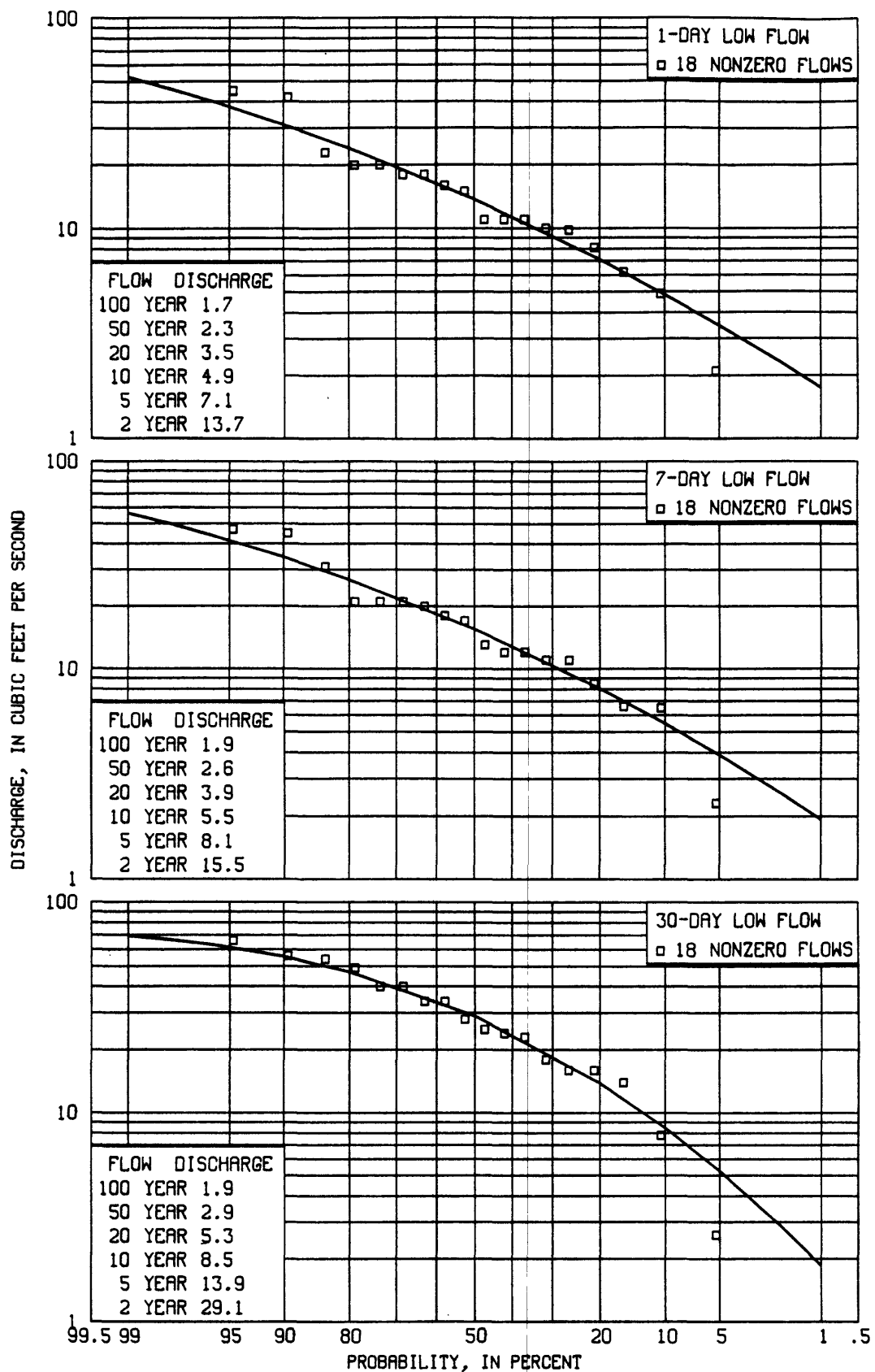
STATION 5338500 SNAKE RIVER NEAR PINE CITY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



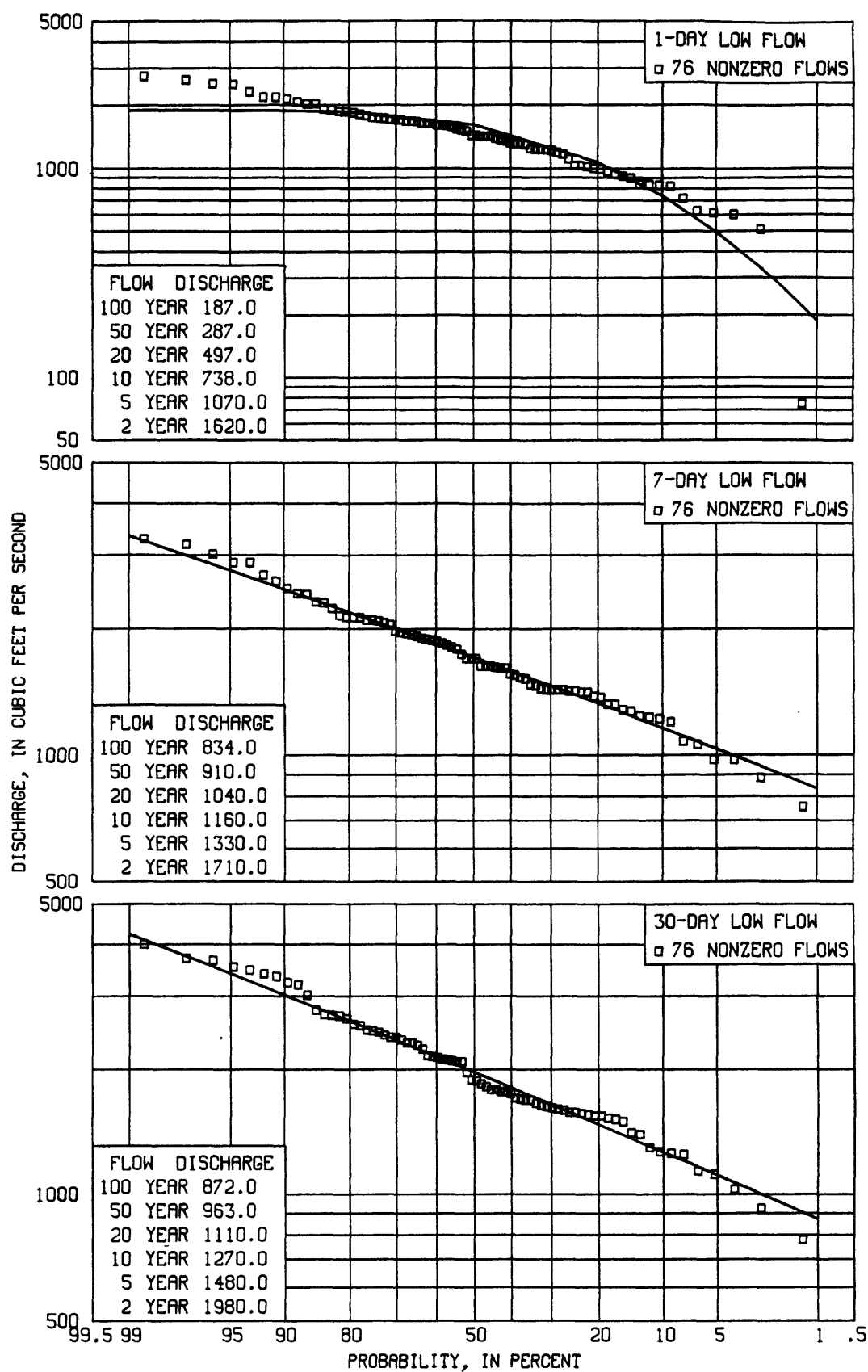
STATION 5339500 ST. CROIX RIVER NEAR RUSH CITY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



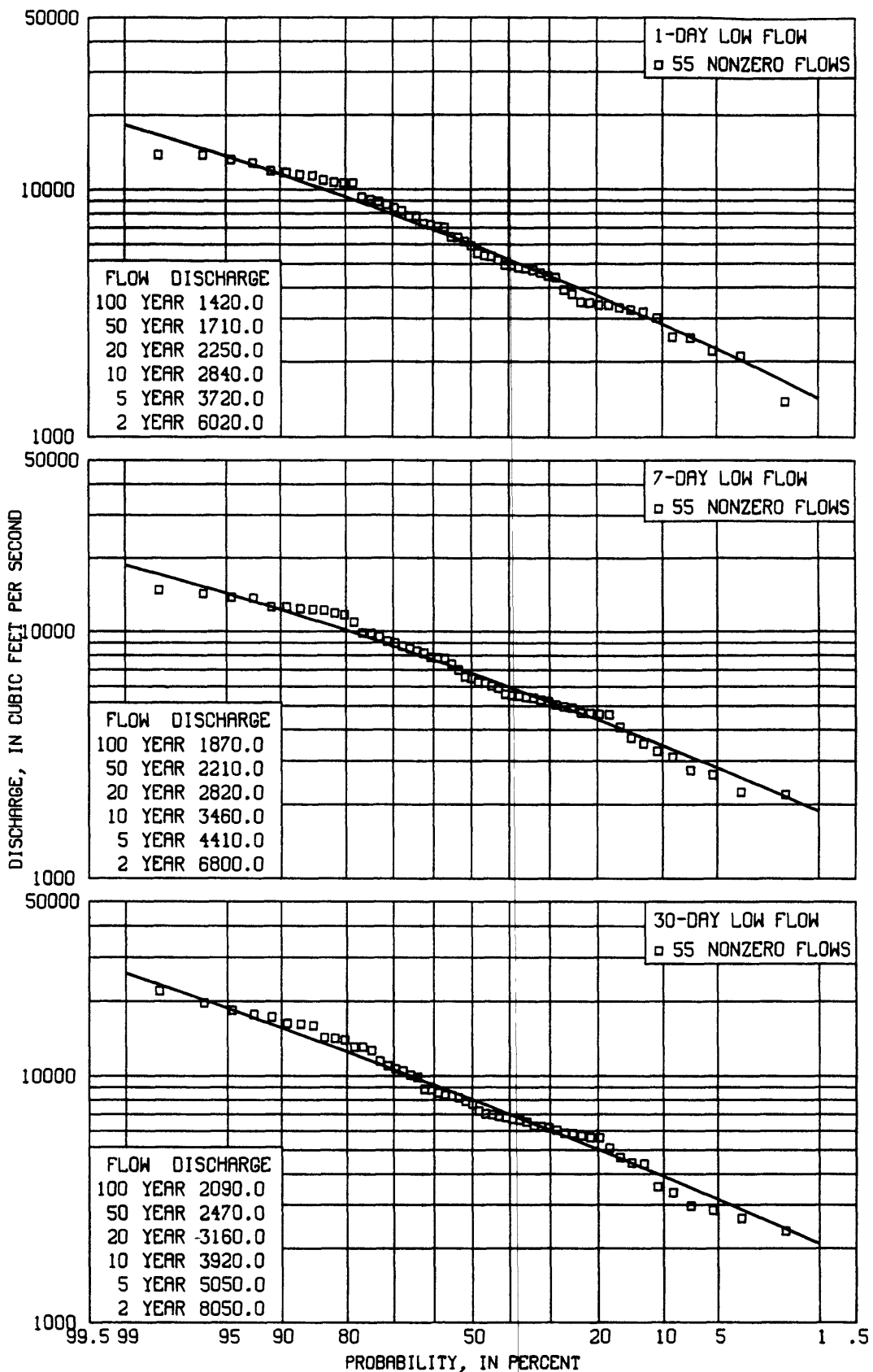
STATION 5340000 SUNRISE RIVER NEAR STACY
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



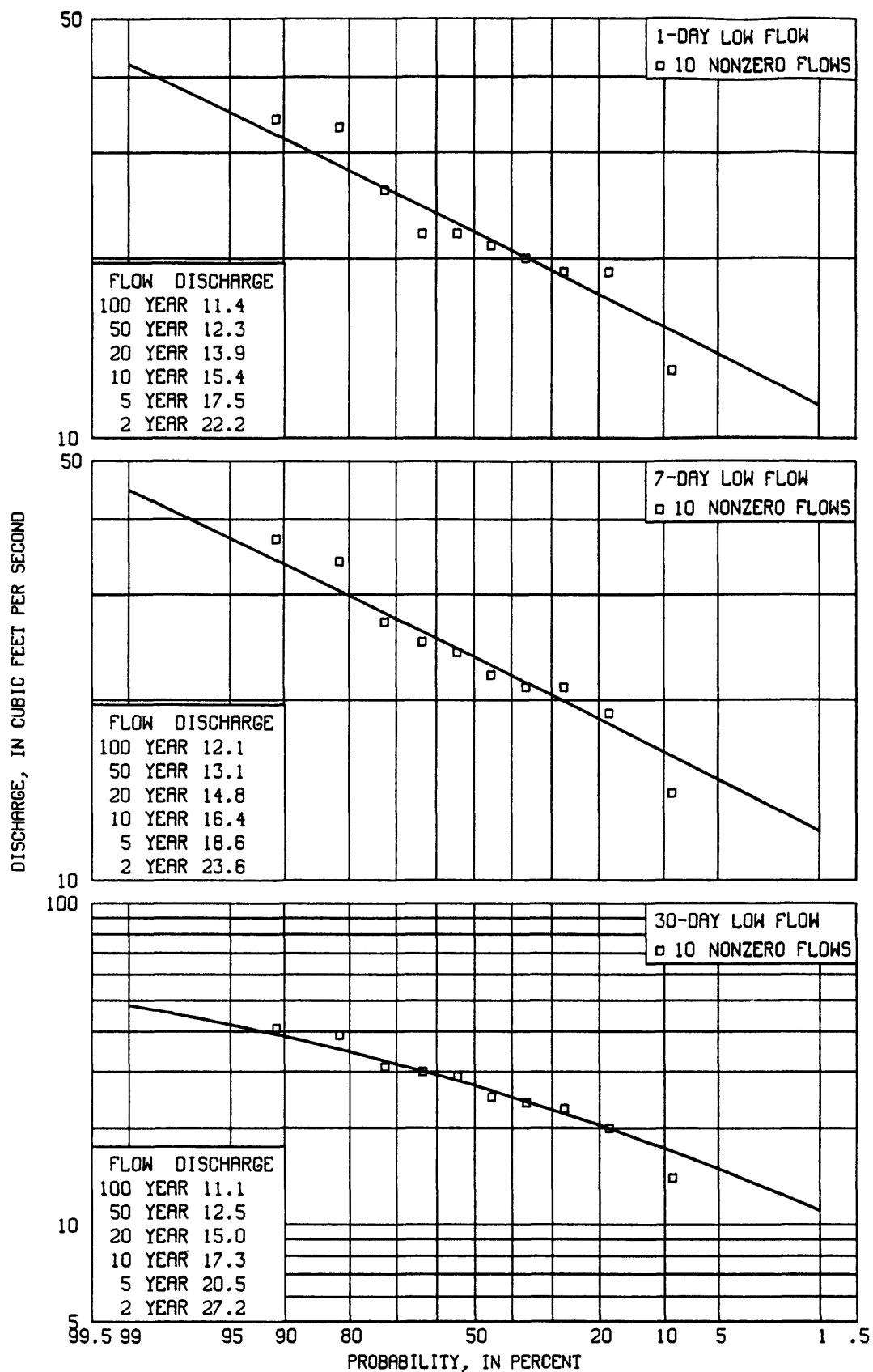
STATION 5340050 SUNRISE RIVER NEAR LINDSTROM
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



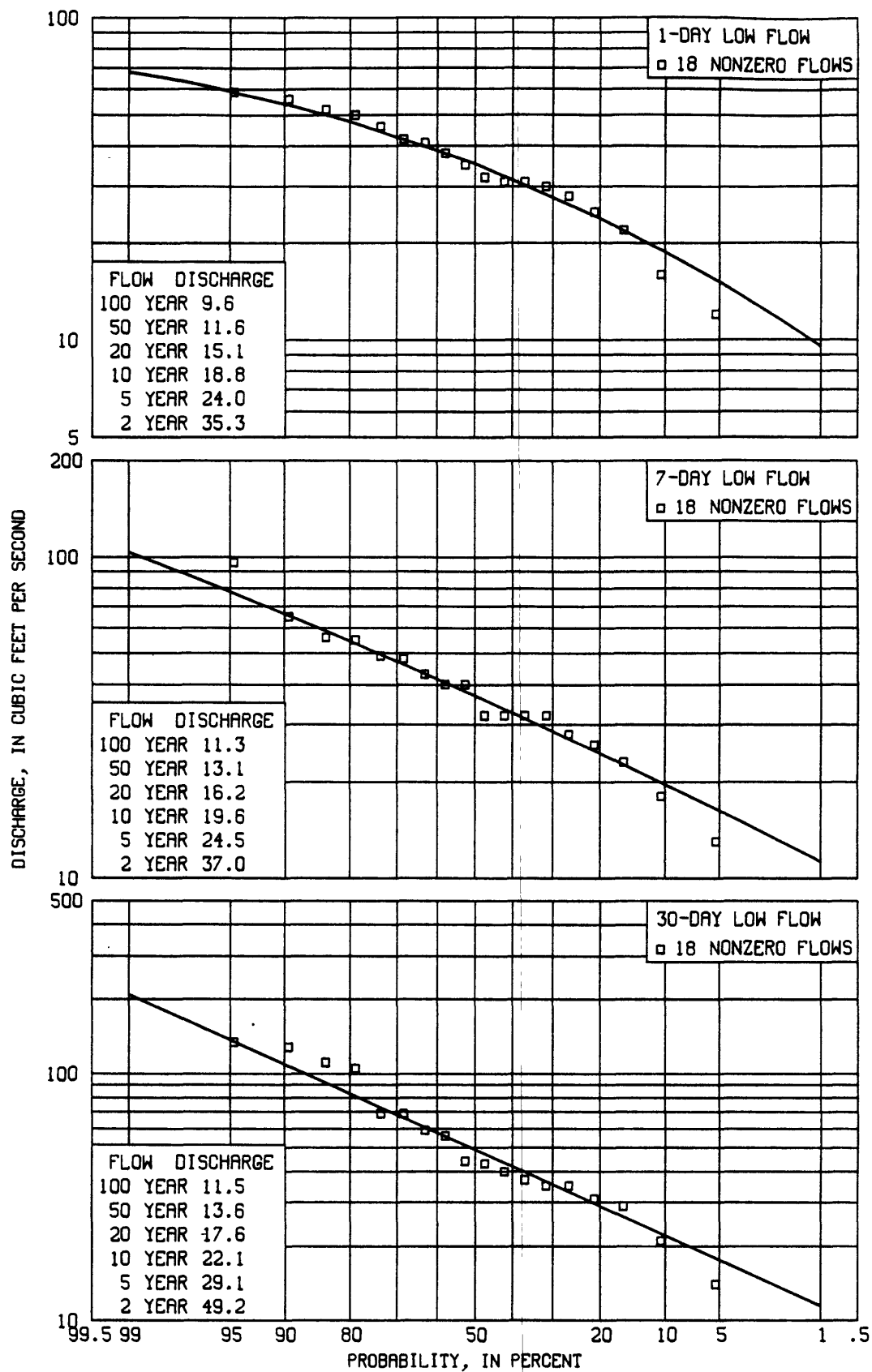
STATION 5340500 ST. CROIX RIVER AT ST. CROIX FALLS, WI
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



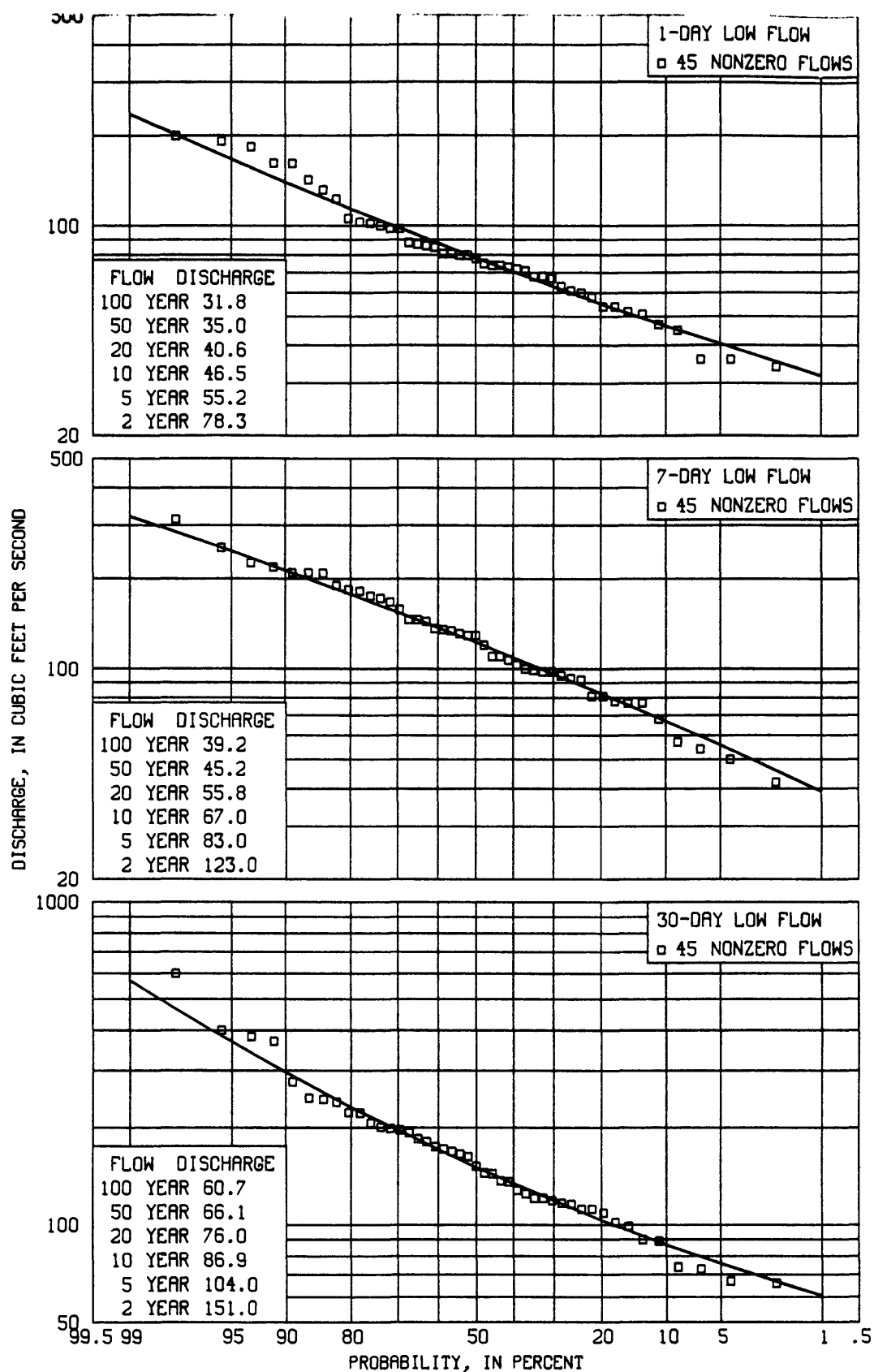
STATION 5344500 MISSISSIPPI RIVER AT PRESCOTT, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



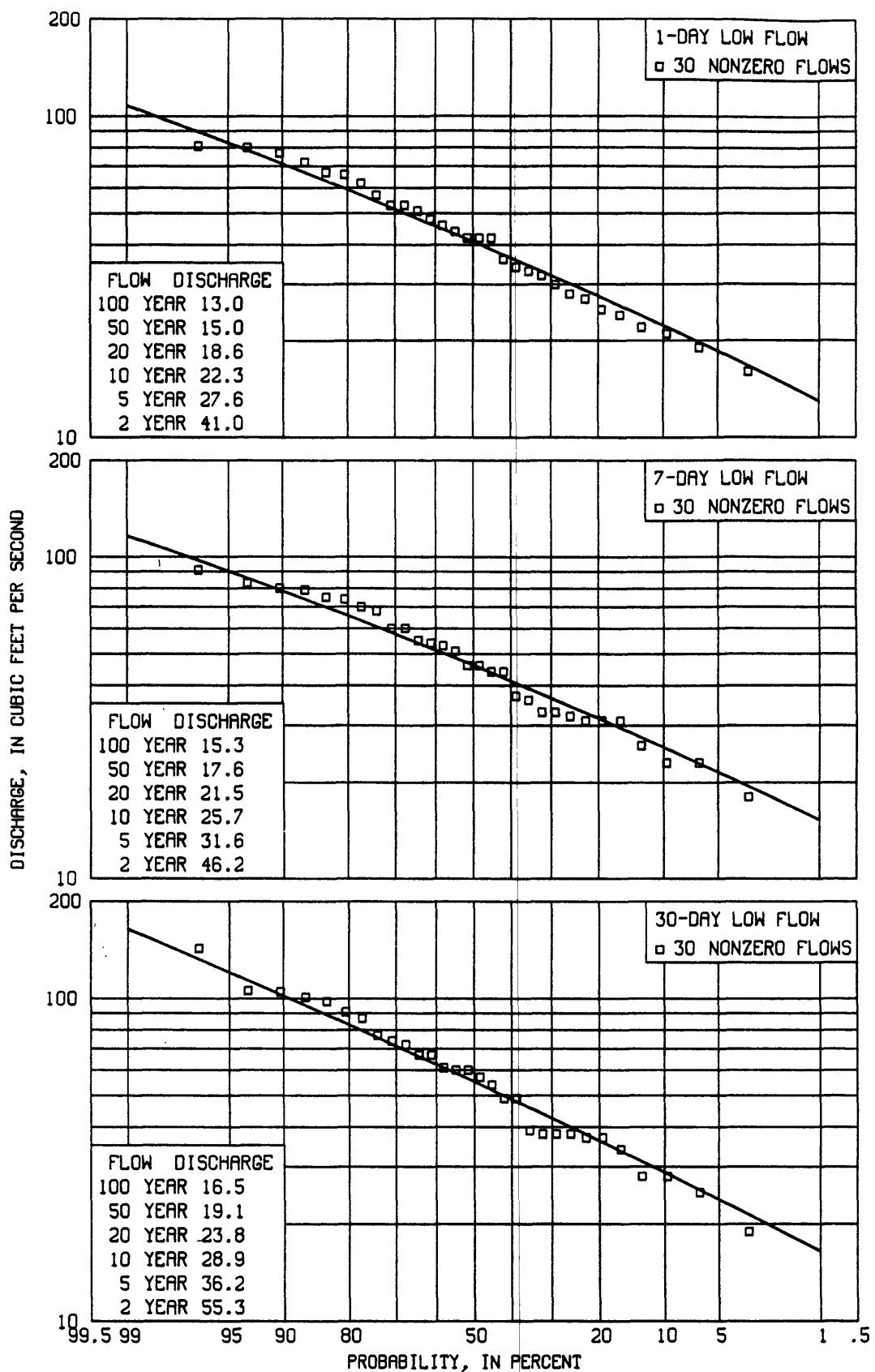
STATION 5345000 VERMILLION RIVER NEAR EMPIRE
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



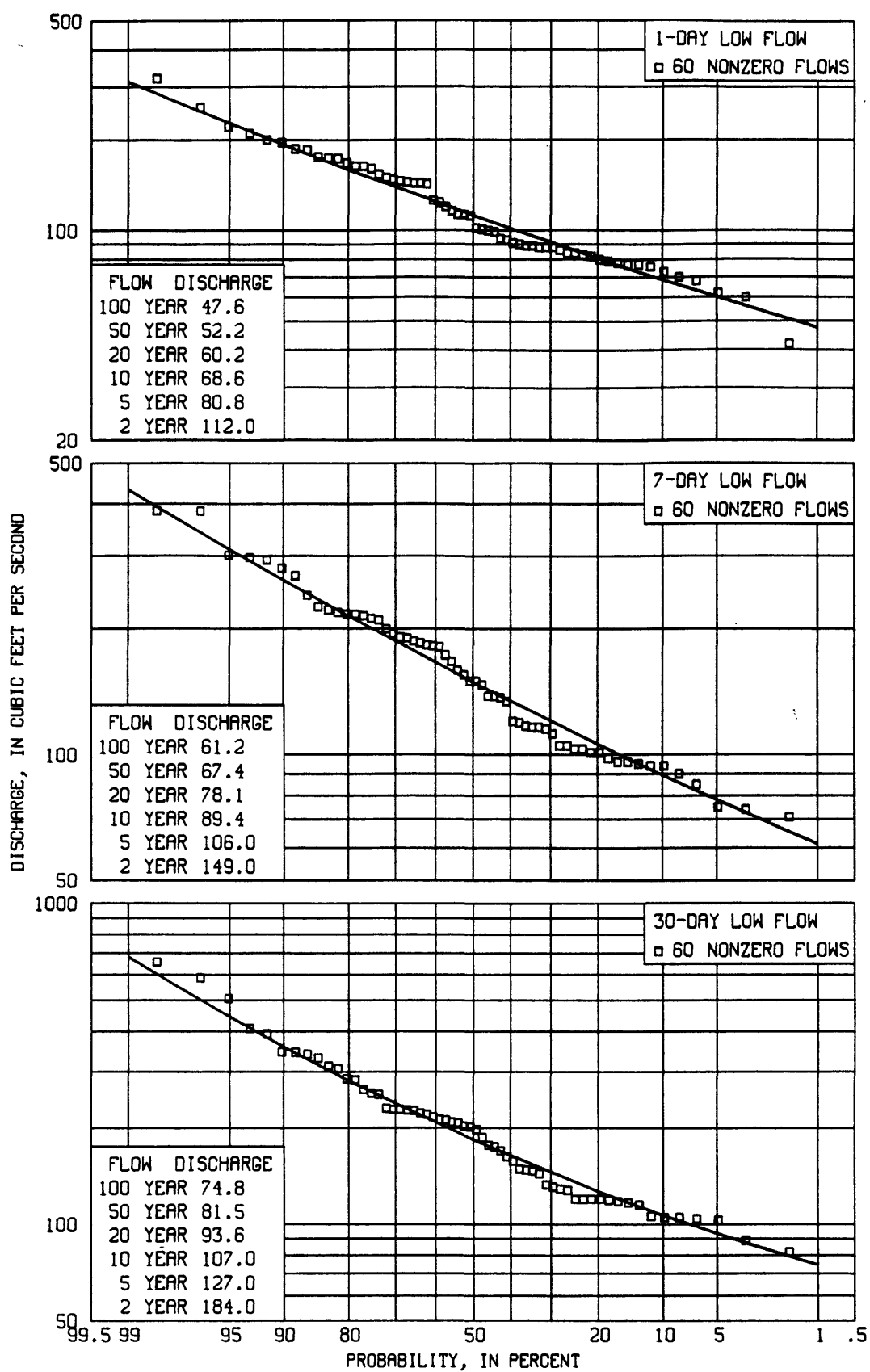
STATION 5353800 STRAIGHT RIVER NEAR FARIBAULT
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



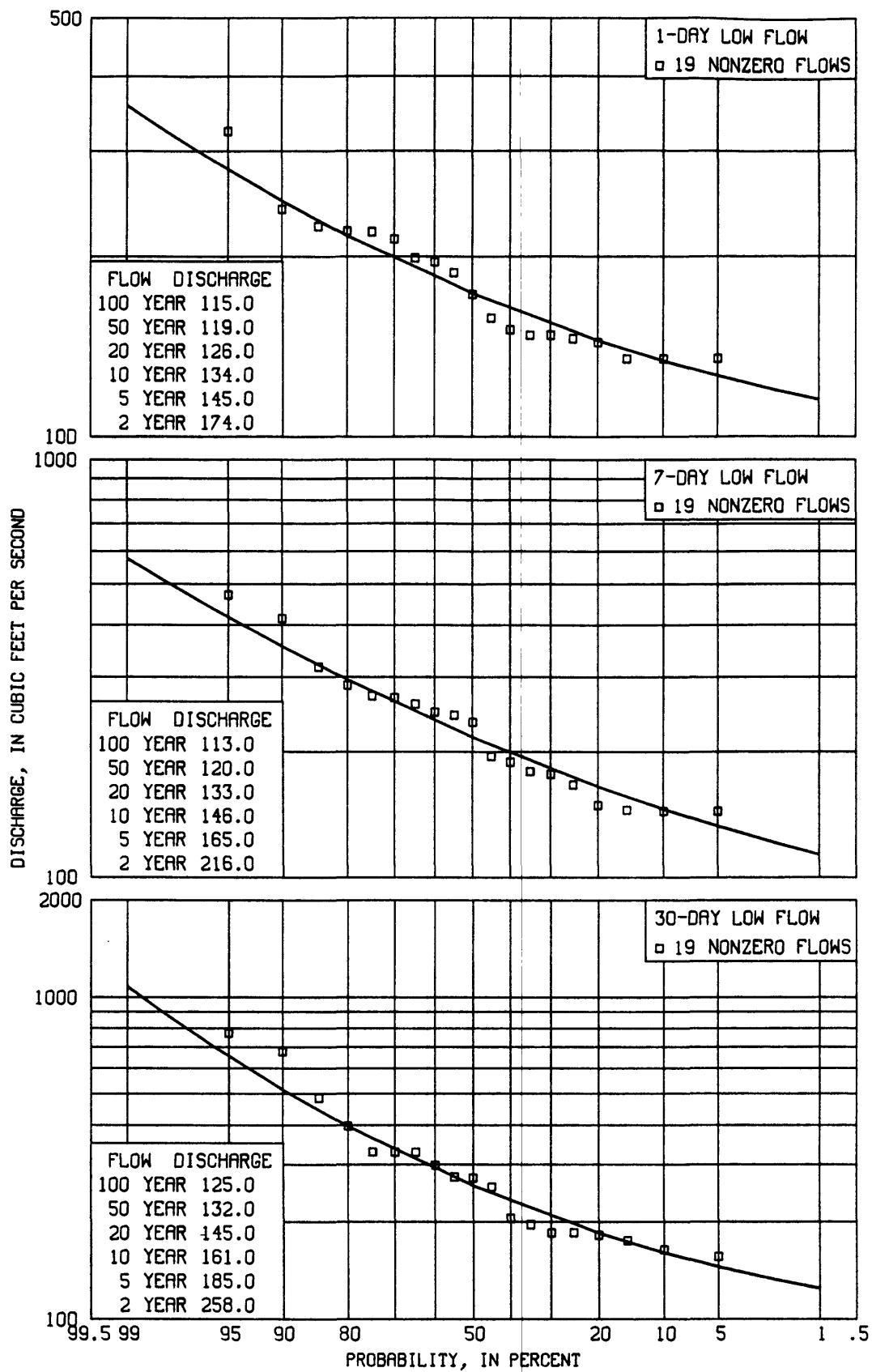
STATION 5355200 CANNON RIVER AT WELCH
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



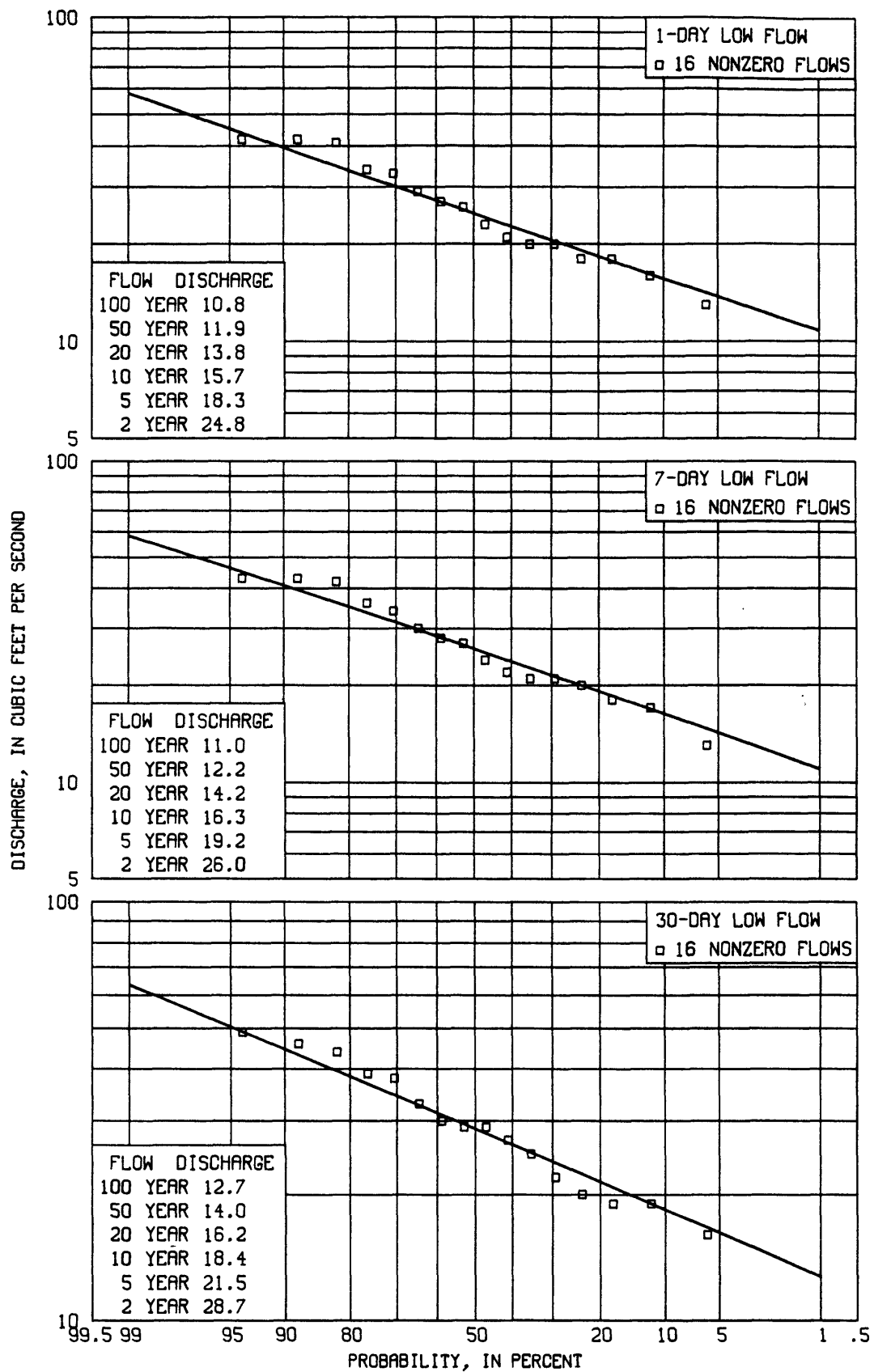
STATION 5373000 SOUTH FORK ZUMBRO RIVER NEAR ROCHESTER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



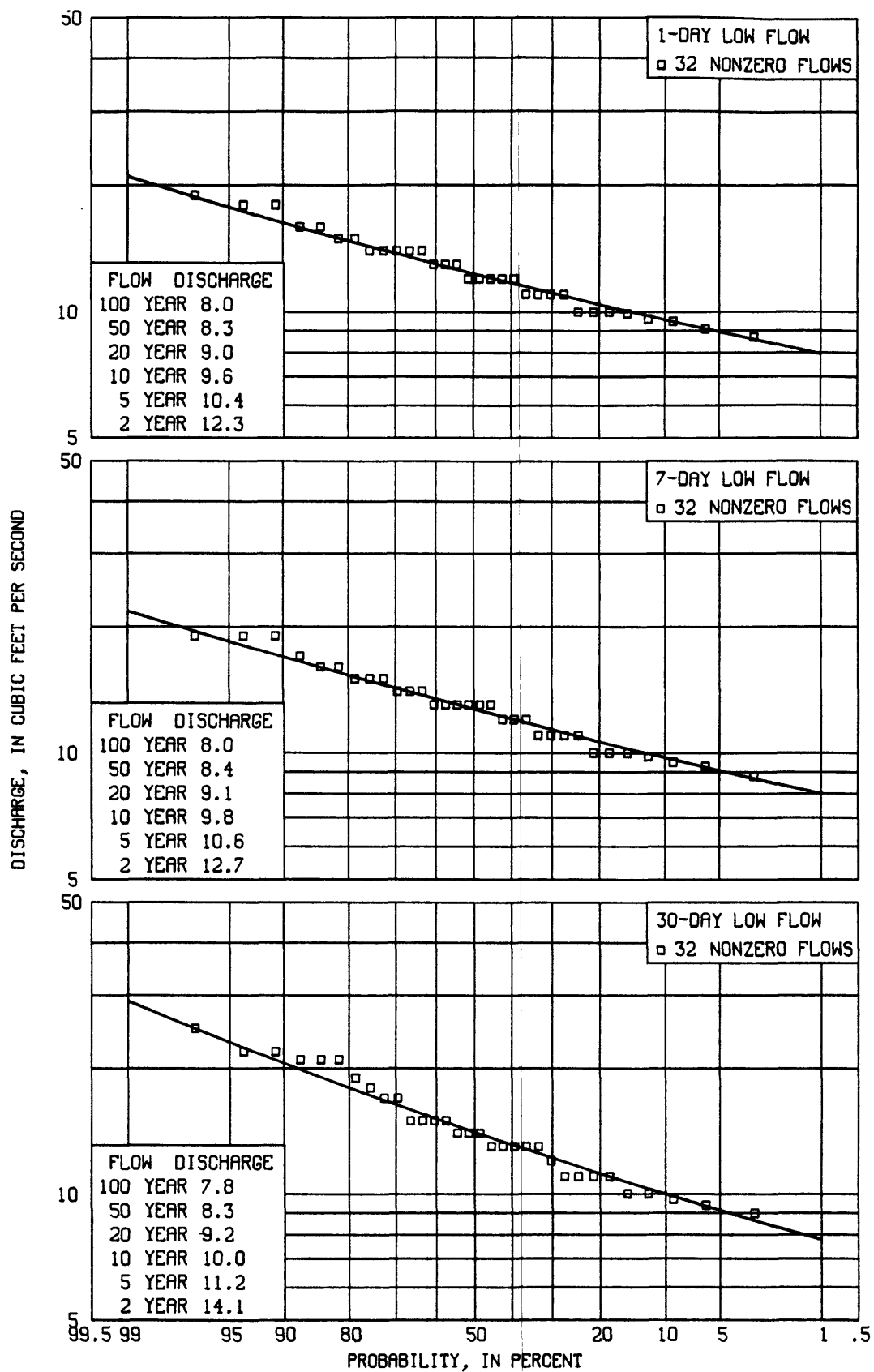
STATION 5374000 ZUMBRO RIVER AT ZUMBRO FALLS
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



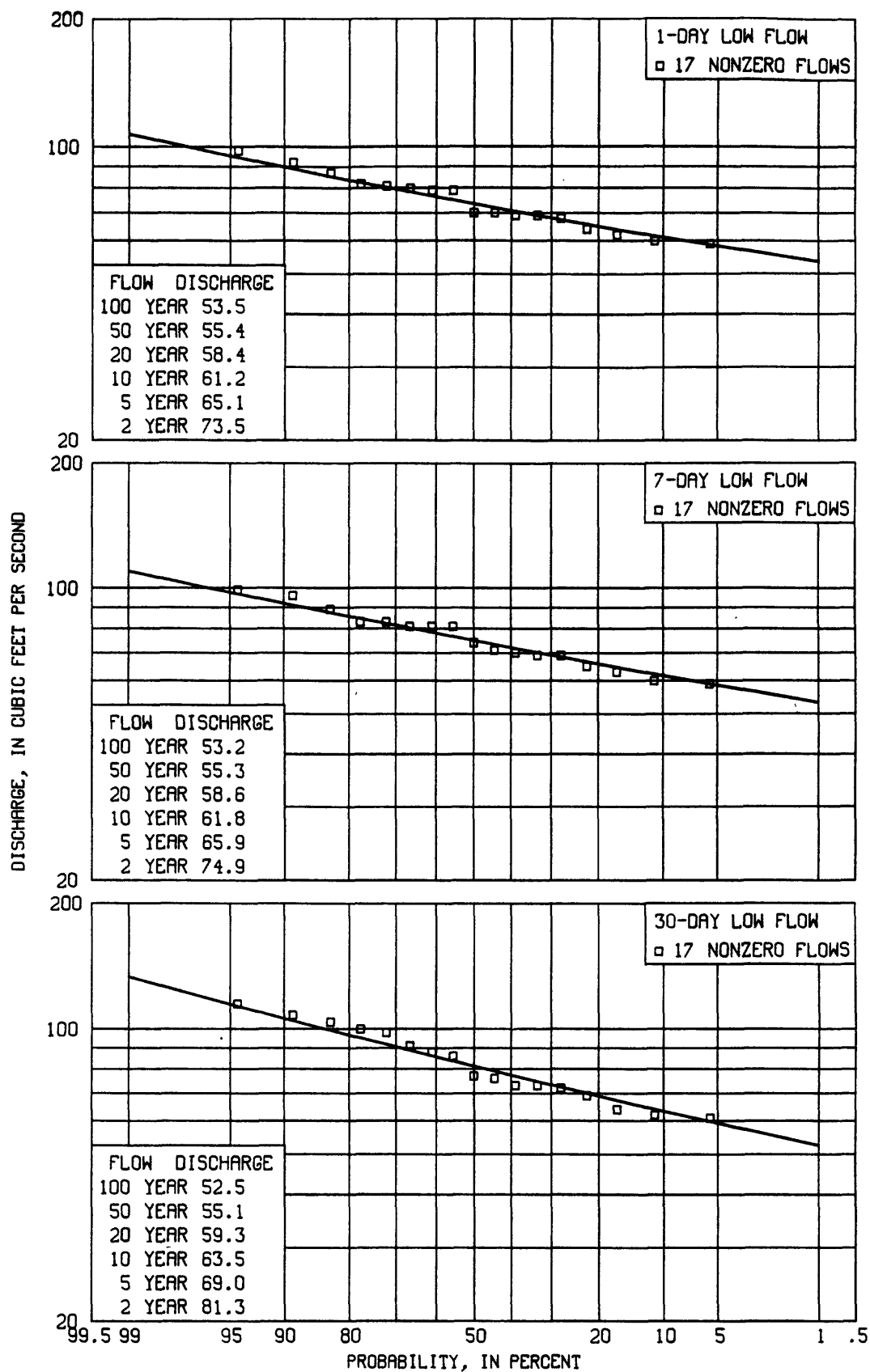
STATION 5374500 ZUMBRO RIVER AT THEILMAN
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



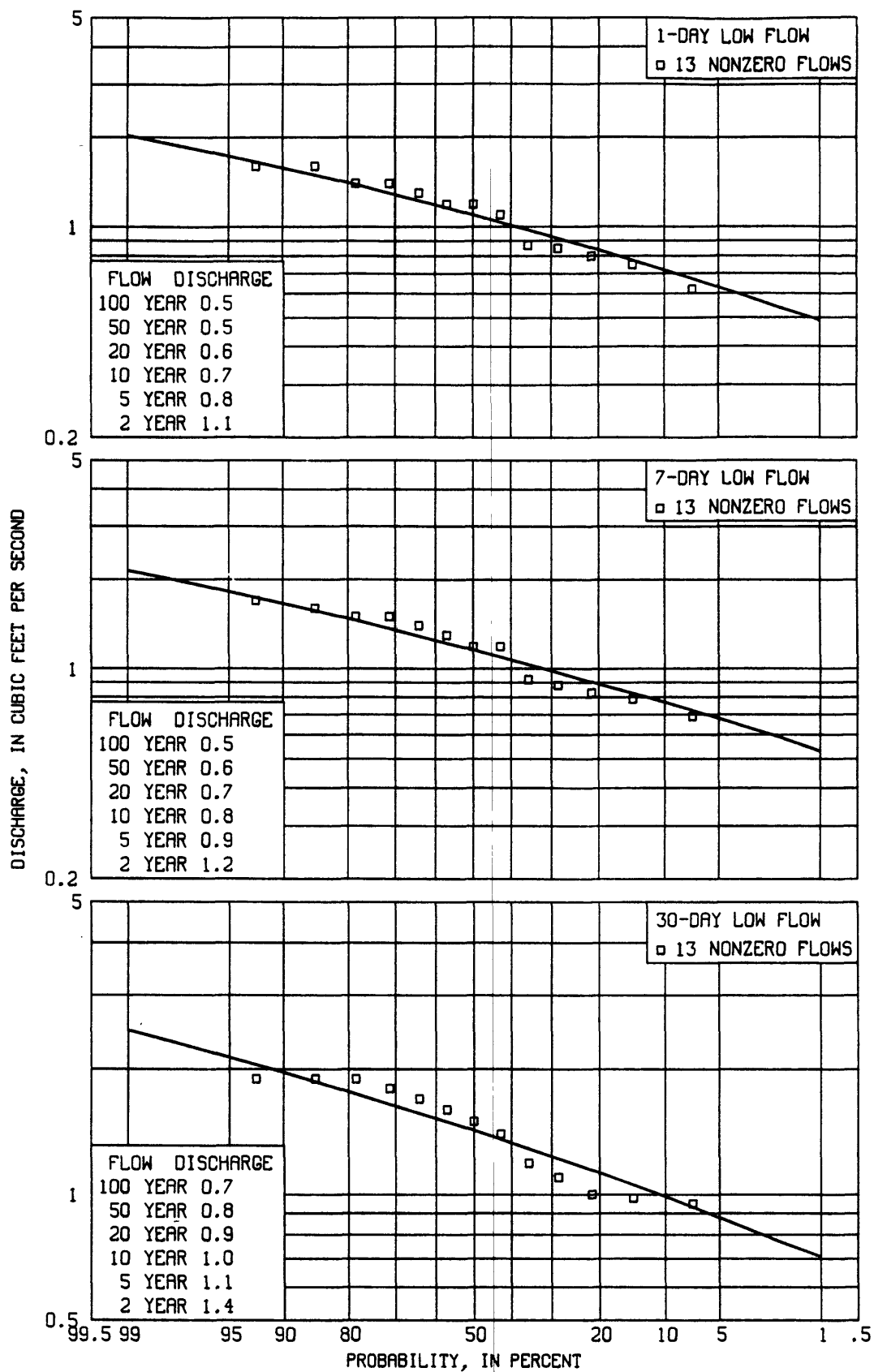
STATION 5376000 NORTH FORK WHITEWATER RIVER NEAR ELBA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



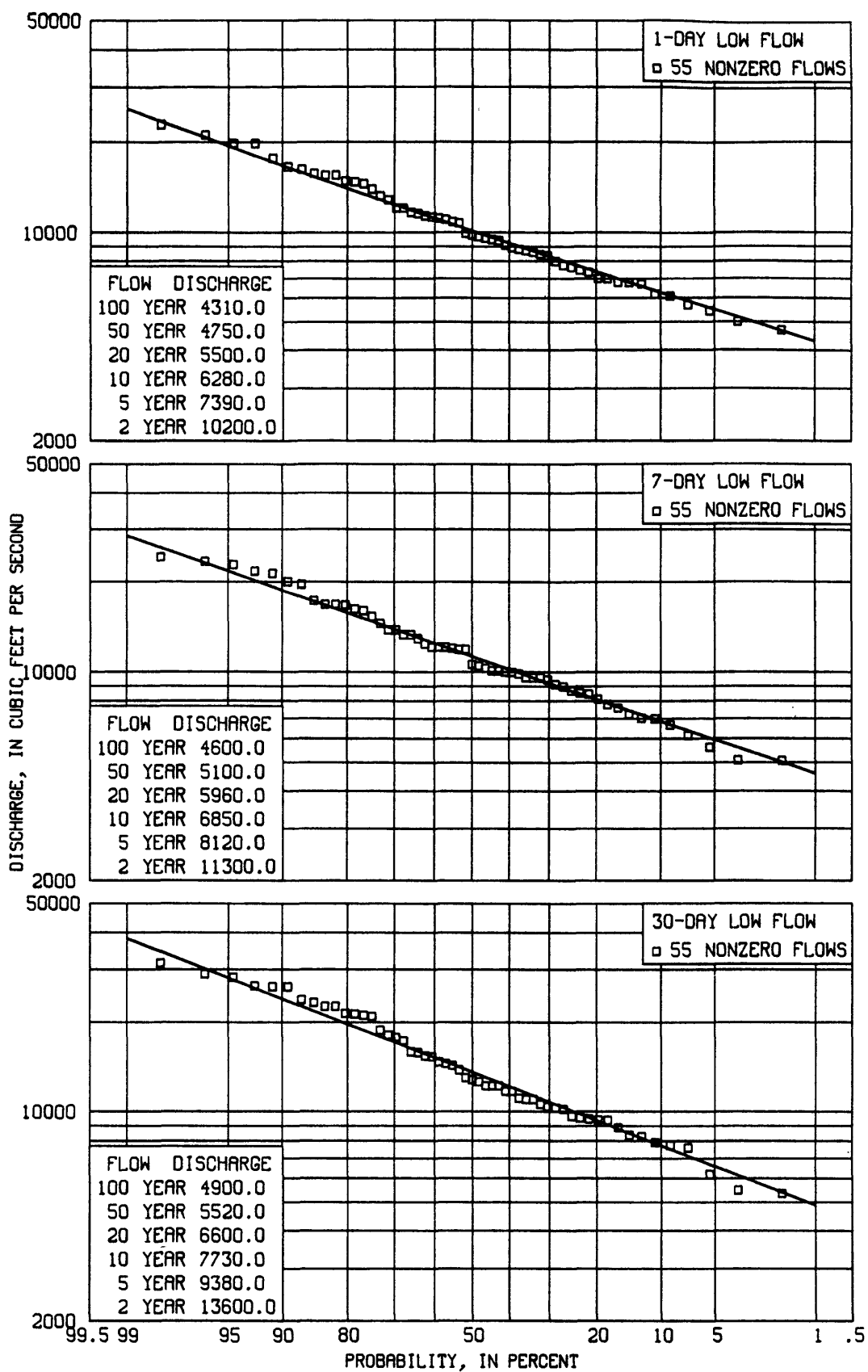
STATION 5376500 SOUTH FORK WHITEWATER RIVER NEAR ALTURA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



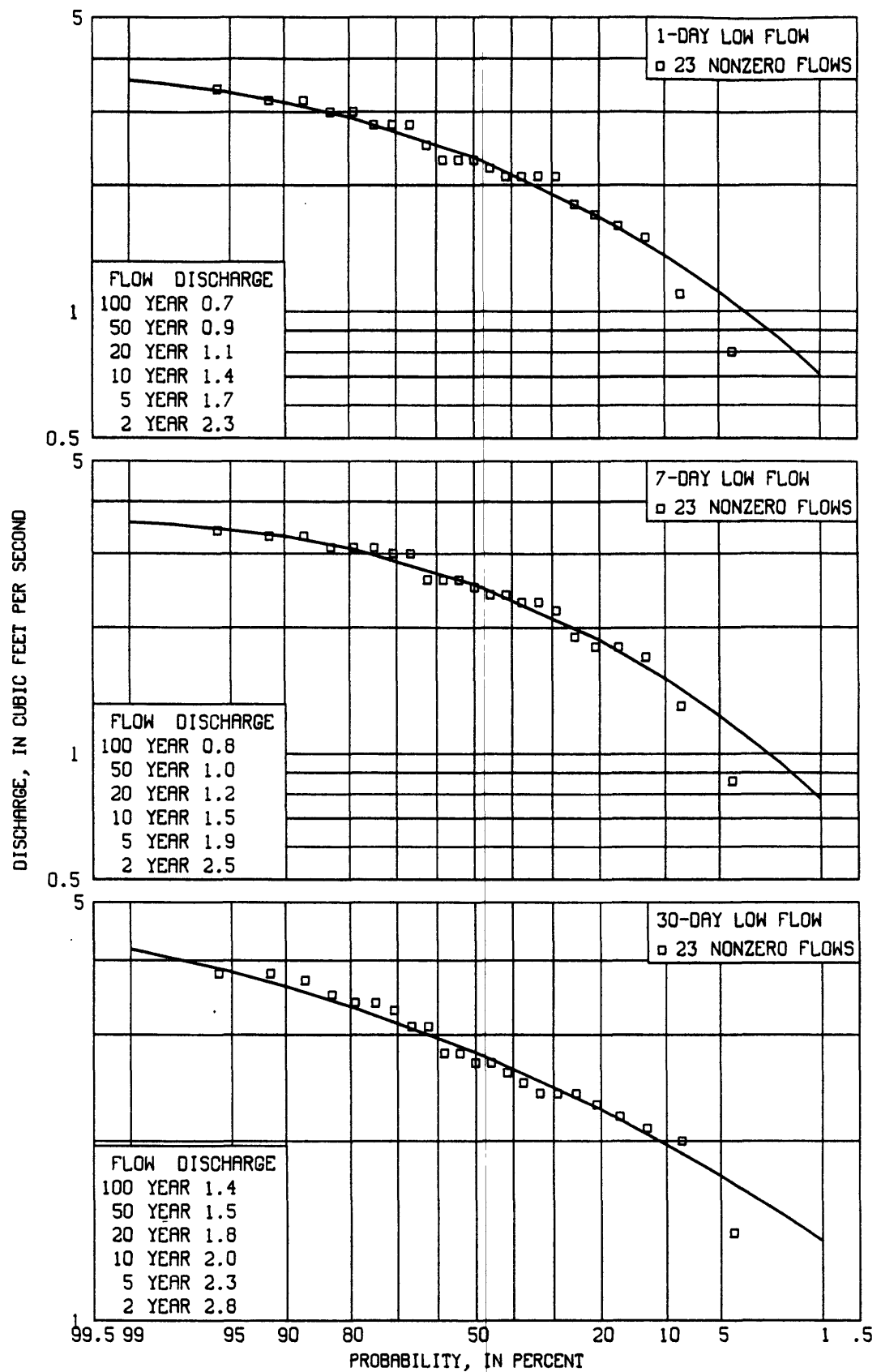
STATION 5377500 WHITEWATER RIVER AT BEAVER
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



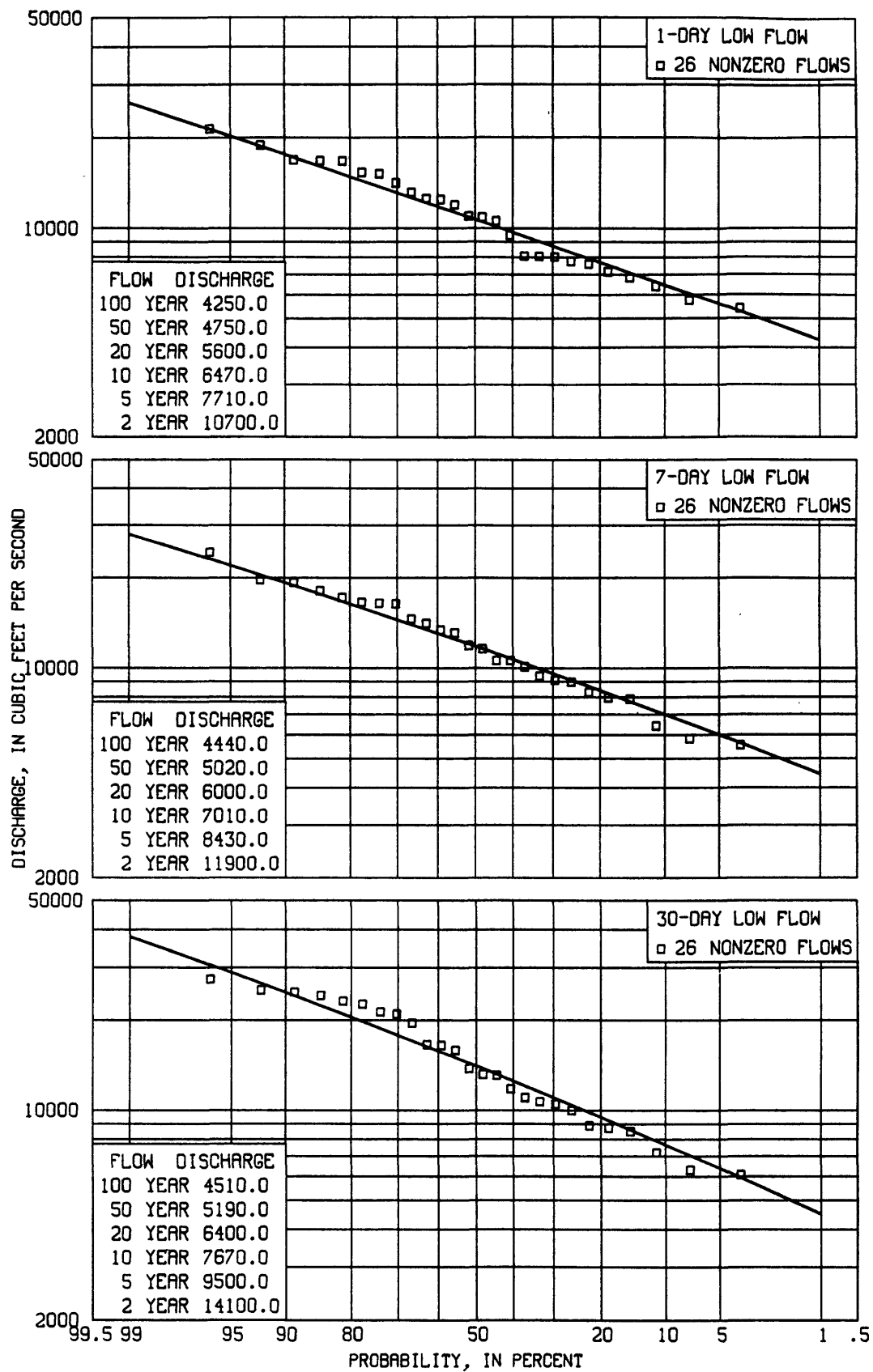
STATION 5378300 STRAIGHT VALLEY CREEK NEAR ROLLINGSTONE
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



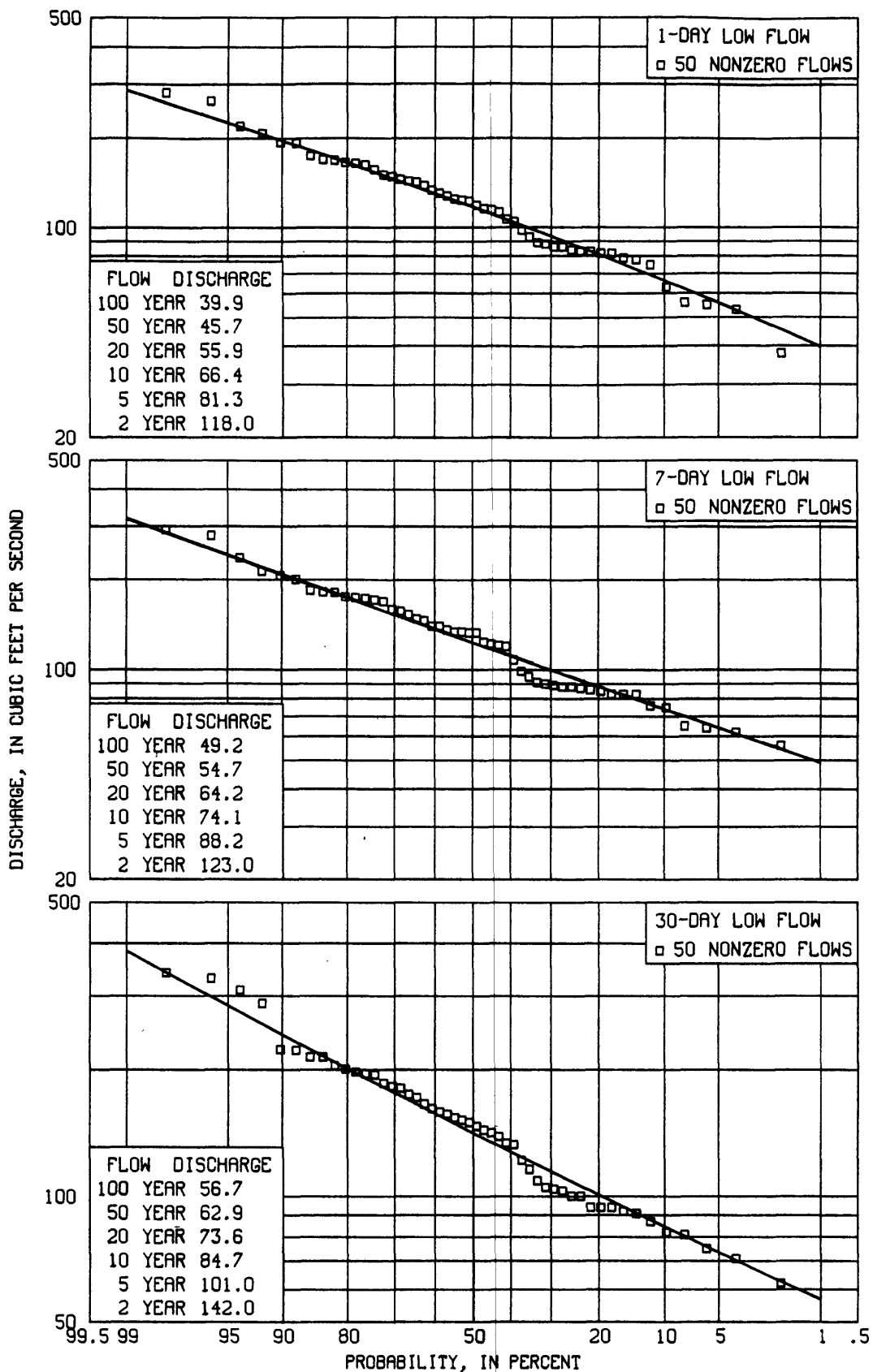
STATION 5378500 MISSISSIPPI RIVER AT WINONA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



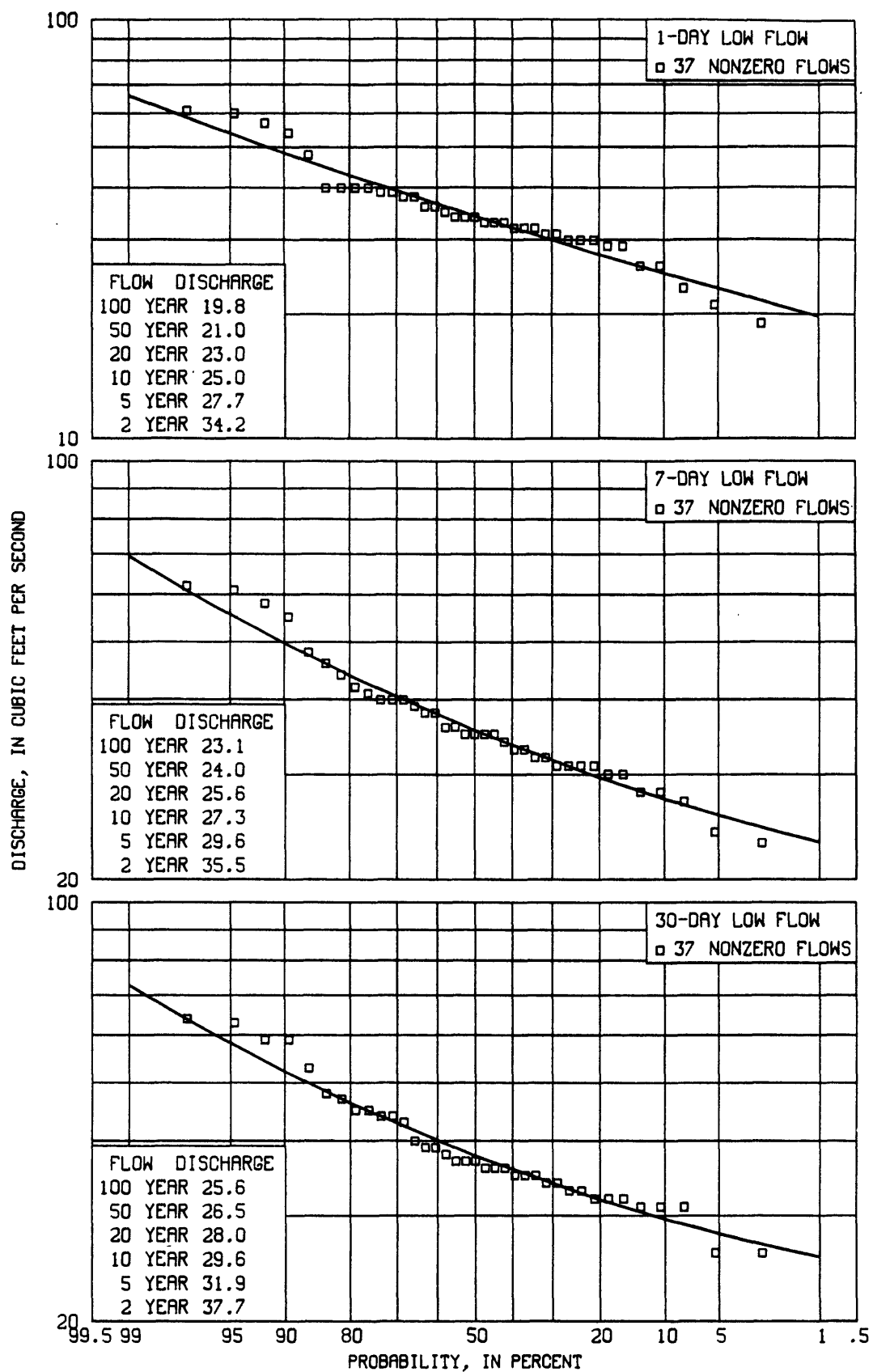
STATION 5379000 GILMORE CREEK AT WINONA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



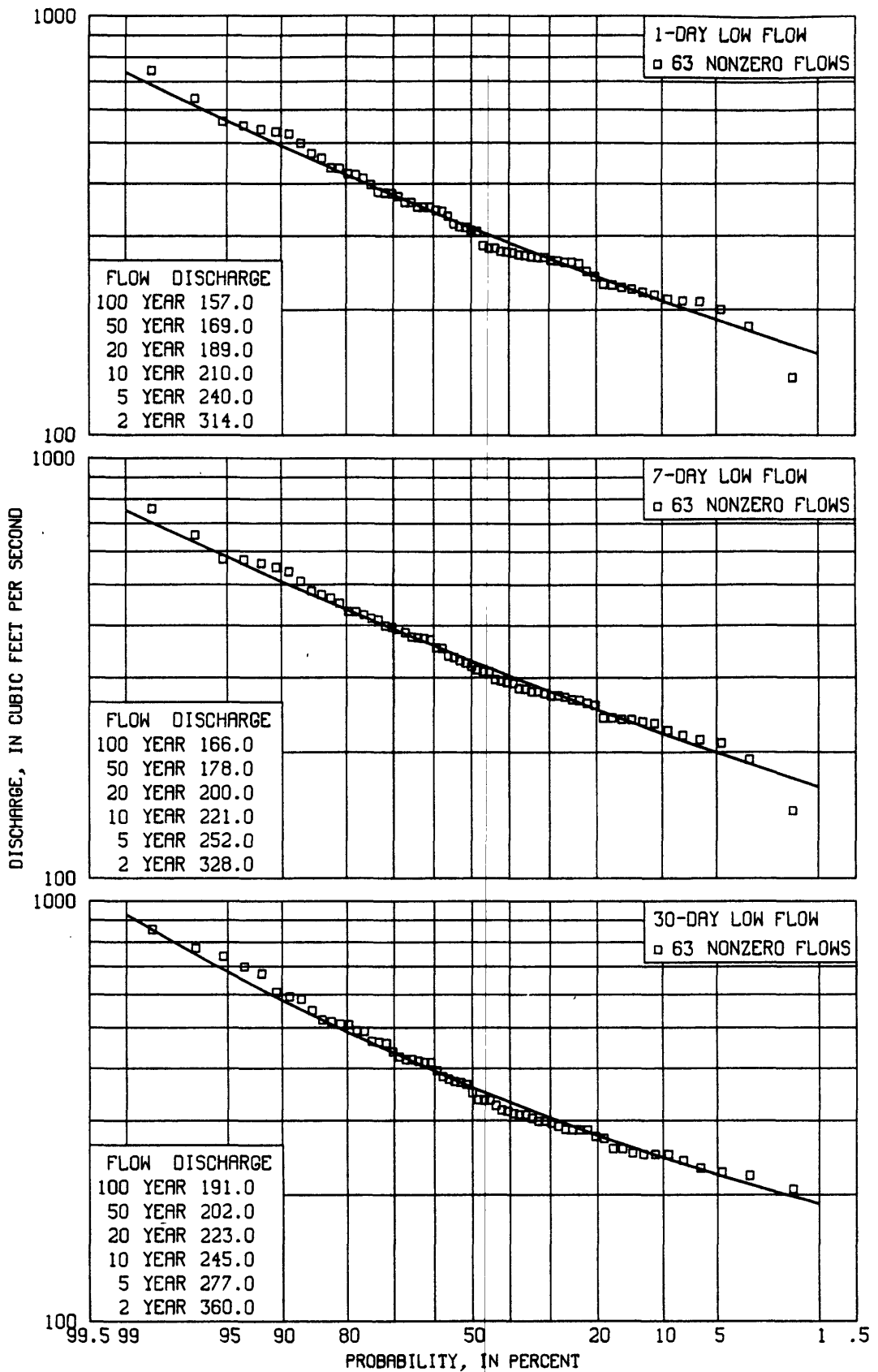
STATION 5383500 MISSISSIPPI RIVER AT LA CROSSE, WI
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



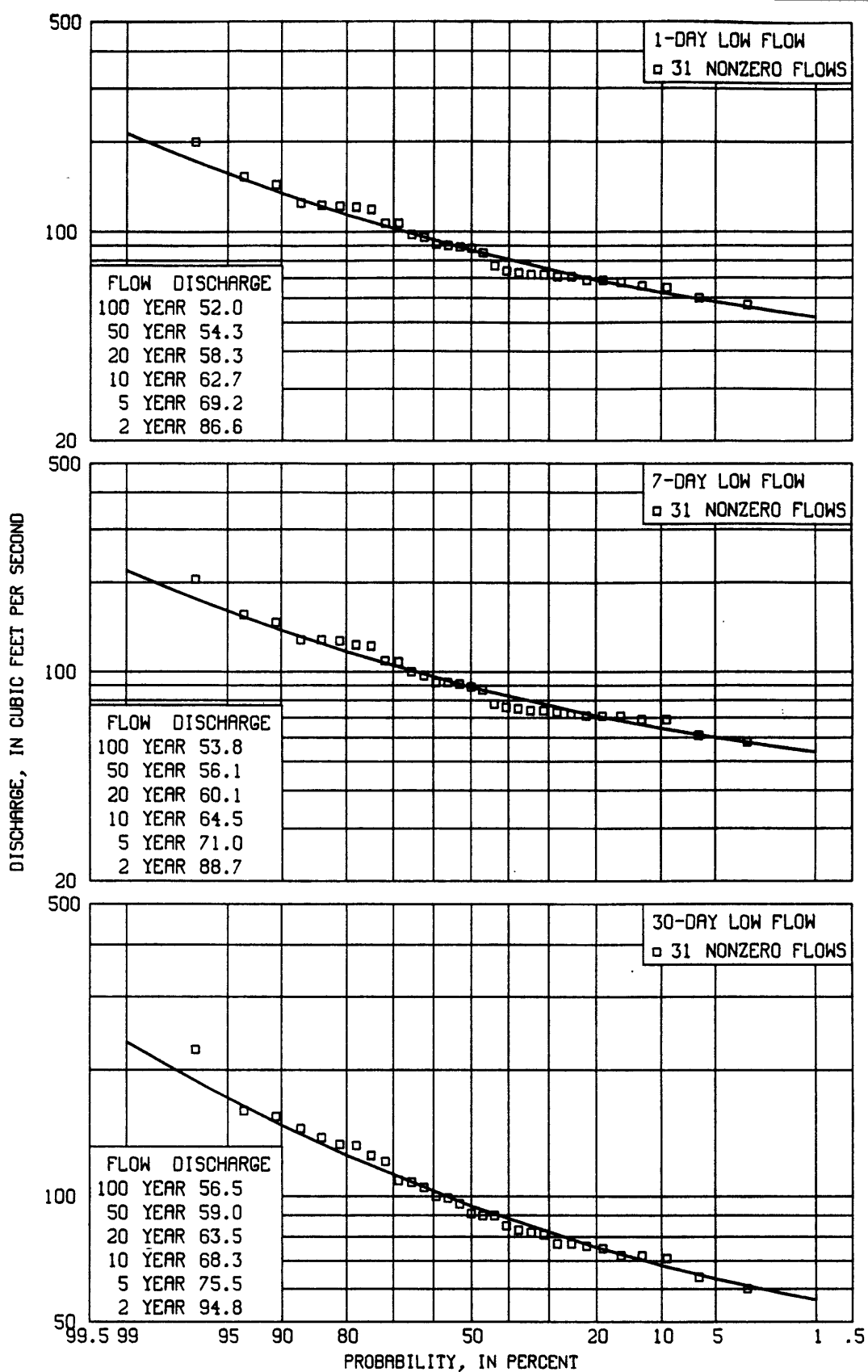
STATION 5384000 ROOT RIVER NEAR LANESBORO
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



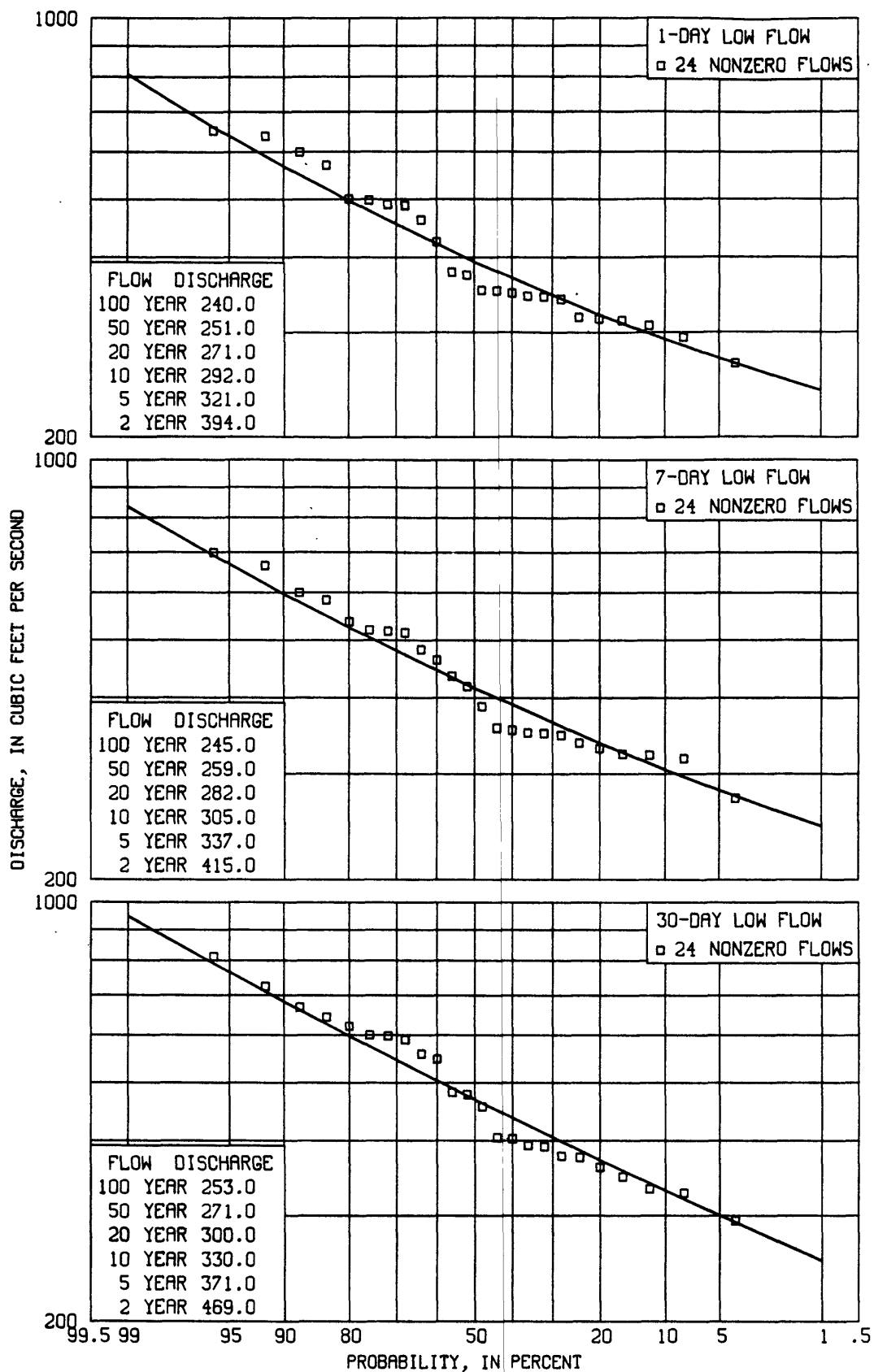
STATION 5384500 RUSH CREEK NEAR RUSHFORD
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



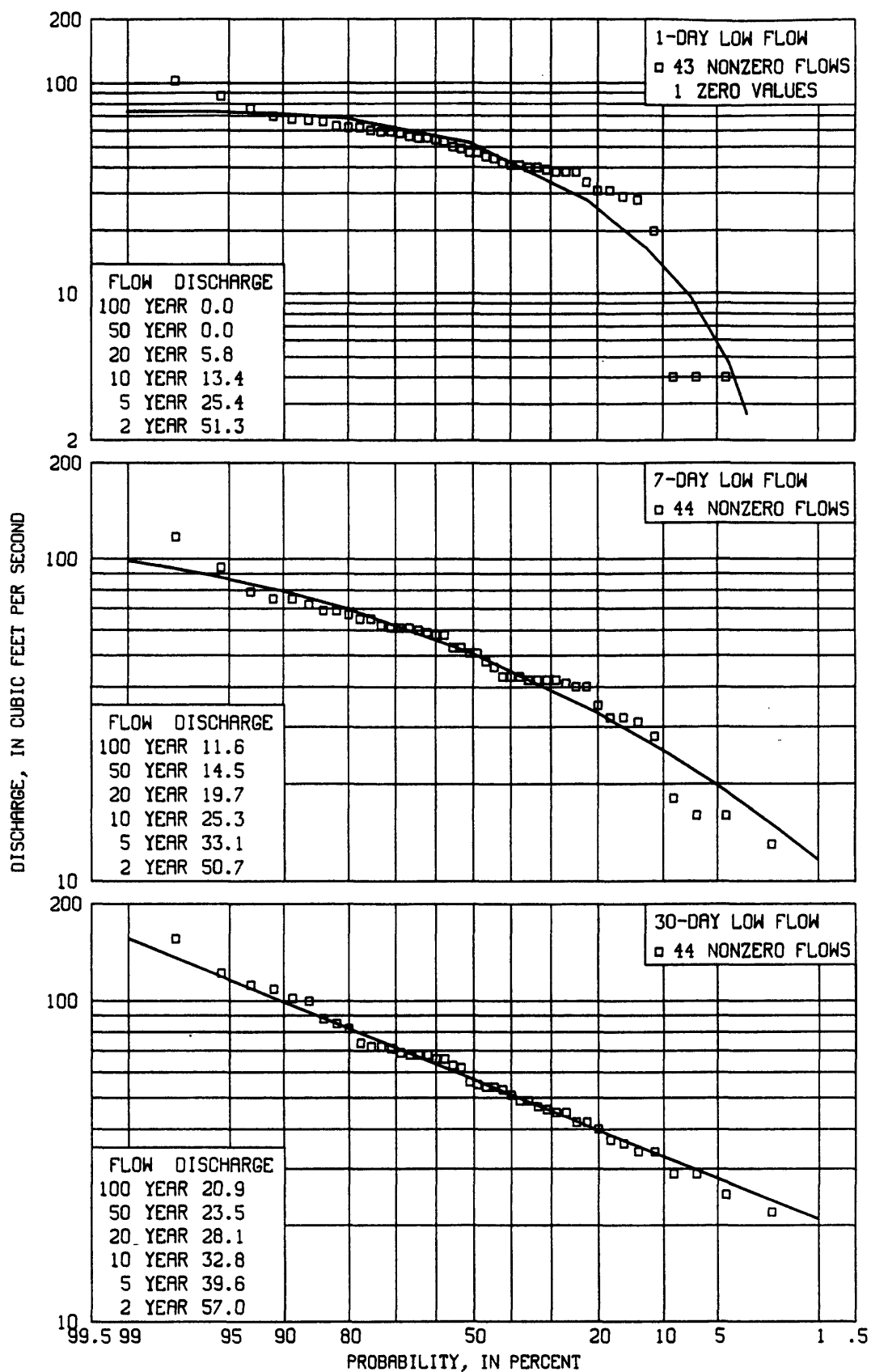
STATION 5385000 ROOT RIVER NEAR HOUSTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



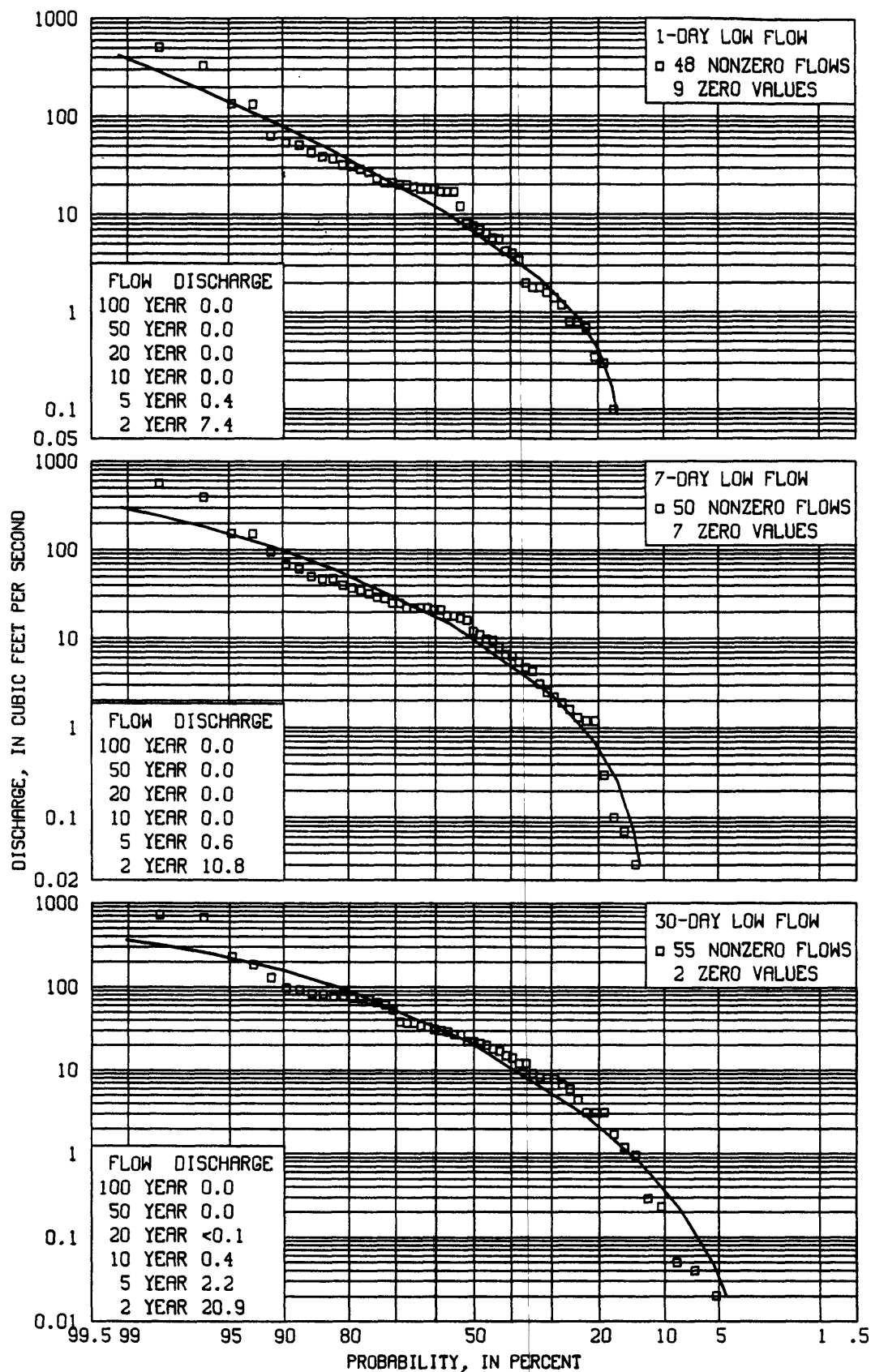
STATION 5385500 SOUTH FORK ROOT RIVER NEAR HOUSTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



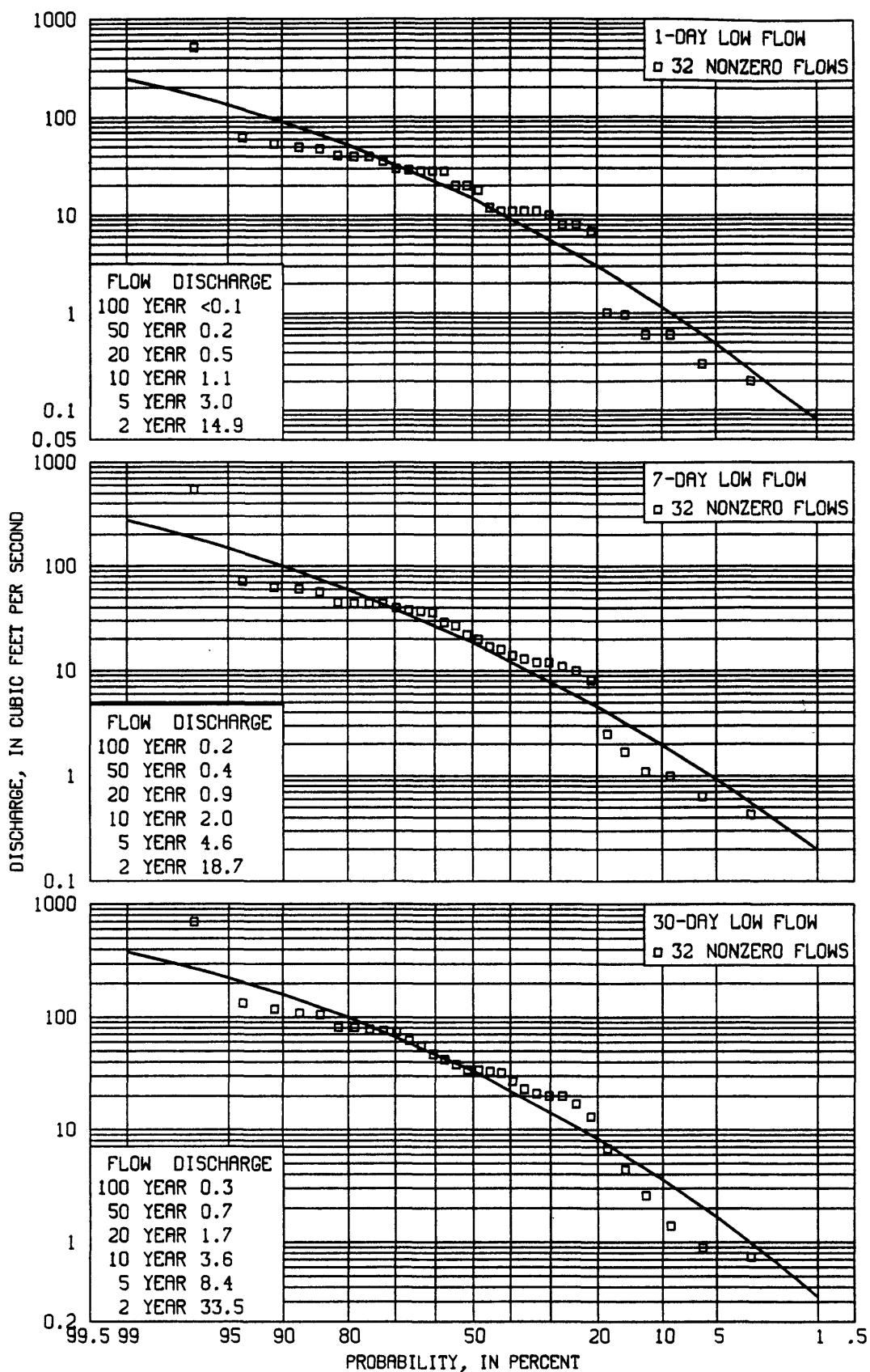
STATION 5386000 ROOT RIVER BELOW SOUTH FORK NEAR HOUSTON
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



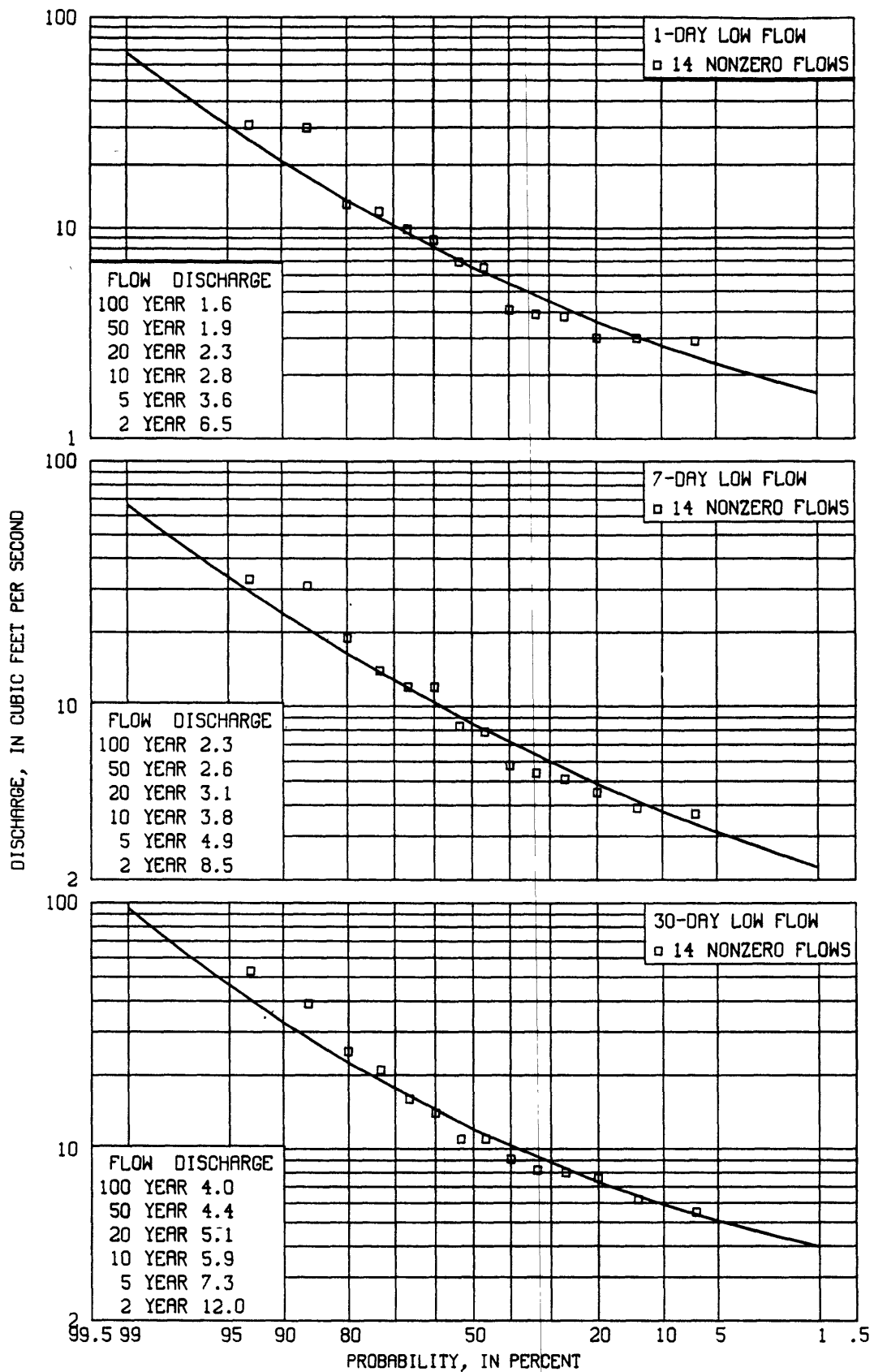
STATION 5457000 CEDAR RIVER NEAR AUSTIN
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



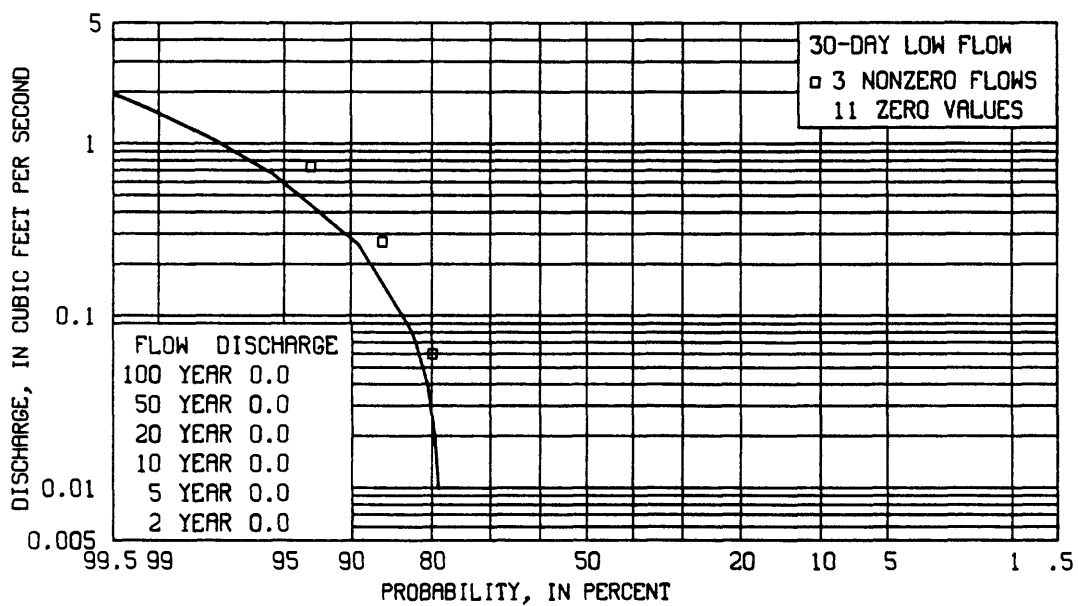
STATION 5476000 DES MOINES RIVER AT JACKSON
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



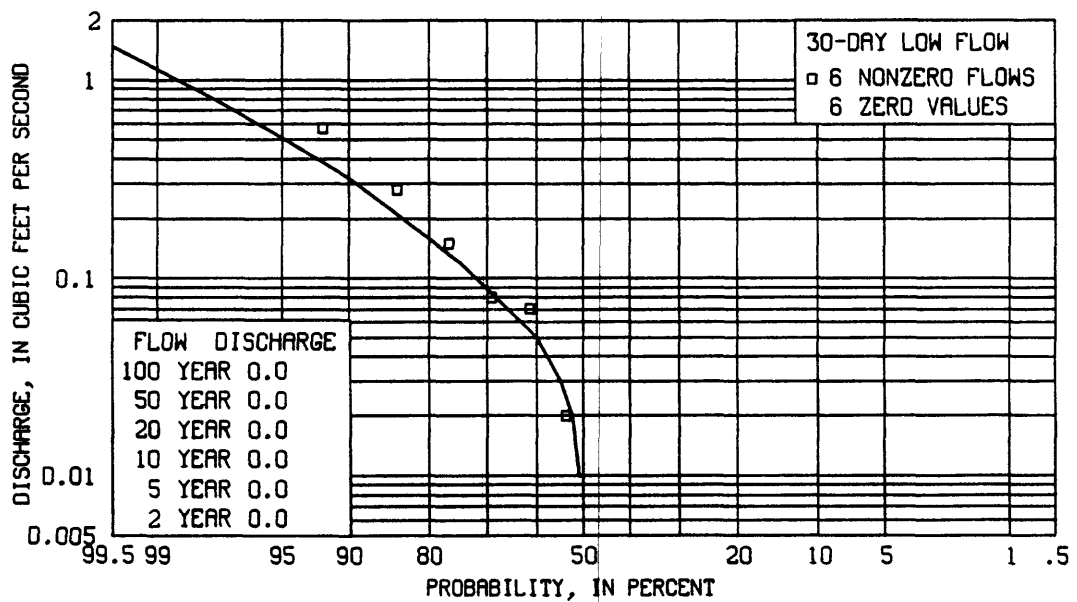
STATION 5476500 DES MOINES RIVER AT ESTHERVILLE, IOWA
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



STATION 6483270 ROCK RIVER AT ROCK RAPIDS, IOWA
Magnitude and Probability (Hazen plotting position)
of the flow being equal to or less than the discharge,
for the 5-month period ending Sept. 30



STATION 6603000 LITTLE SIOUX RIVER NEAR LAKEFIELD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30



STATION 6603500 JACKSON COUNTY DITCH #11 NEAR LAKEFIELD
 Magnitude and Probability (Hazen plotting position)
 of the flow being equal to or less than the discharge,
 for the 5-month period ending Sept. 30