

**MULTIPLE DAY RAINFALL PROBABILITIES
FOR
SEATTLE-TACOMA INTERNATIONAL AIRPORT**

Prepared for
PORT OF SEATTLE

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Table of Contents

Summary of rainfall probability plots and calculations	1
Rainfall probability plots	2
Annual maximum rainfall probability plots	2
Annual maximum 1 day precipitation.....	2
Annual maximum 2 day precipitation.....	3
Annual maximum 3 day precipitation.....	4
Annual maximum 4 day precipitation.....	5
Annual maximum 5 day precipitation.....	6
Annual maximum 6 day precipitation.....	7
Annual maximum 7 day precipitation.....	8
Annual maximum 1 day monthly rainfall probability plots	9
Annual maximum 1 day January precipitation	9
Annual maximum 1 day February precipitation	10
Annual maximum 1 day March precipitation	11
Annual maximum 1 day April precipitation	12
Annual maximum 1 day May precipitation.....	13
Annual maximum 1 day June precipitation.....	14
Annual maximum 1 day July precipitation	15
Annual maximum 1 day August precipitation	16
Annual maximum 1 day September precipitation.....	17
Annual maximum 1 day October precipitation.....	18
Annual maximum 1 day November precipitation.....	19
Annual maximum 1 day December precipitation	20
Annual maximum 7 day monthly rainfall probability plots	21
Annual maximum 7 day January precipitation	21
Annual maximum 7 day February precipitation	22
Annual maximum 7 day March precipitation	23
Annual maximum 7 day April precipitation	24
Annual maximum 7 day May precipitation.....	25
Annual maximum 7 day June precipitation.....	26
Annual maximum 7 day July precipitation	27
Annual maximum 7 day August precipitation	28
Annual maximum 7 day September precipitation.....	29
Annual maximum 7 day October precipitation.....	30
Annual maximum 7 day November precipitation.....	31
Annual maximum 7 day December precipitation	32
Annual maximum 1-7 day April-October rainfall probability plots.....	33
Annual maximum 1 day April-October precipitation	33
Annual maximum 2 day April-October precipitation	34
Annual maximum 3 day April-October precipitation	35
Annual maximum 4 day April-October precipitation	36
Annual maximum 5 day April-October precipitation	37
Annual maximum 6 day April-October precipitation	38
Annual maximum 7 day April-October precipitation	39

Appendix A: Estimating the Exceedance Probability for a Given Rainfall.....	40
One Month, Rainfall to Probability	42
Table A1a. Slope estimates for one-month rainfall-to-probability equations.....	42
Table A1b. Intercept estimates for one-month rainfall-to-probability equations.....	42
Two Months, Rainfall to Probability	43
Table A2a. Slope estimates for two-month rainfall-to-probability equations.....	43
Table A2b. Intercept estimates for two-month rainfall-to-probability equations.	43
Three Months, Rainfall to Probability	44
Table A3a. Slope estimates for three-month rainfall-to-probability equations.....	44
Table A3b. Intercept estimates for three-month rainfall-to-probability equations.	44
Four Months, Rainfall to Probability.....	45
Table A4a. Slope estimates for four-month rainfall-to-probability equations.	45
Table A4b. Intercept estimates for four-month rainfall-to-probability equations.....	45
Five Months, Rainfall to Probability	46
Table A5a. Slope estimates for five-month rainfall-to-probability equations.	46
Table A5b. Intercept estimates for five-month rainfall-to-probability equations.	46
Six Months, Rainfall to Probability	47
Table A6a. Slope estimates for six-month rainfall-to-probability equations.	47
Table A6b. Intercept estimates for six-month rainfall-to-probability equations.....	47
Seven Months, Rainfall to Probability	48
Table A7a. Slope estimates for seven-month rainfall-to-probability equations.....	48
Table A7b. Intercept estimates for seven-month rainfall-to-probability equations.	48
Eight Months, Rainfall to Probability	49
Table A8a. Slope estimates for eight-month rainfall-to-probability equations.....	49
Table A8b. Intercept estimates for eight-month rainfall-to-probability equations.	49
Nine Months, Rainfall to Probability	50
Table A9a. Slope estimates for nine-month rainfall-to-probability equations.....	50
Table A9b. Intercept estimates for nine-month rainfall-to-probability equations.	50
Ten Months, Rainfall to Probability	51
Table A10a. Slope estimates for ten-month rainfall-to-probability equations.....	51
Table A10b. Intercept estimates for ten-month rainfall-to-probability equations.	51
Eleven Months, Rainfall to Probability	52
Table A11a. Slope estimates for eleven-month rainfall-to-probability equations.	52
Table A11b. Intercept estimates for eleven-month rainfall-to-probability equations.....	52
Twelve Months, Rainfall to Probability	53
Table A12a. Slope estimates for twelve-month rainfall-to-probability equations.....	53
Table A12b. Intercept estimates for twelve-month rainfall-to-probability equations.....	53
Appendix B: Estimating the Rainfall Corresponding to a Given Exceedance Probability.....	54
One Month, Probability to Rainfall	56
Table B1a. Slope estimates for one-month probability-to-rainfall equations.	56
Table B1b. Intercept estimates for one-month probability-to-rainfall equations.....	56
Two Months, Probability to Rainfall.....	57
Table B2a. Slope estimates for two-month probability-to-rainfall equations.	57
Table B2b. Intercept estimates for two-month probability-to-rainfall equations.....	57
Three Months, Probability to Rainfall.....	58
Table B3a. Slope estimates for three-month probability-to-rainfall equations.	58

Table B3b. Intercept estimates for three-month probability-to-rainfall equations.....	58
Four Months, Probability to Rainfall.....	59
Table B4a. Slope estimates for four-month probability-to-rainfall equations.	59
Table B4b. Intercept estimates for four-month probability-to-rainfall equations.	59
Five Months, Probability to Rainfall	60
Table B5a. Slope estimates for five-month probability-to-rainfall equations.....	60
Table B5b. Intercept estimates for five-month probability-to-rainfall equations.	60
Six Months, Probability to Rainfall.....	61
Table B6a. Slope estimates for six-month probability-to-rainfall equations.	61
Table B6b. Intercept estimates for six-month probability-to-rainfall equations.	61
Seven Months, Probability to Rainfall	62
Table B7a. Slope estimates for seven-month probability-to-rainfall equations.....	62
Table B7b. Intercept estimates for seven-month probability-to-rainfall equations.	62
Eight Months, Probability to Rainfall.....	63
Table B8a. Slope estimates for eight-month probability-to-rainfall equations.	63
Table B8b. Intercept estimates for eight-month probability-to-rainfall equations.....	63
Nine Months, Probability to Rainfall	64
Table B9a. Slope estimates for nine-month probability-to-rainfall equations.	64
Table B9b. Intercept estimates for nine-month probability-to-rainfall equations.....	64
Ten Months, Probability to Rainfall.....	65
Table B10a. Slope estimates for ten-month probability-to-rainfall equations.	65
Table B10b. Intercept estimates for ten-month probability-to-rainfall equations.....	65
Eleven Months, Probability to Rainfall	66
Table B11a. Slope estimates for eleven-month probability-to-rainfall equations.	66
Table B11b. Intercept estimates for eleven-month probability-to-rainfall equations.	66
Twelve Months, Probability to Rainfall	67
Table B12a. Slope estimates for twelve-month probability-to-rainfall equations.	67
Table B12b. Intercept estimates for twelve-month probability-to-rainfall equations.	67

Summary of rainfall probability plots and calculations

This booklet presents rainfall exceedance probability plots and their corresponding conversion formulas. Precipitation (rainfall or the equivalent in the case of snow) data were obtained from NOAA's National Climate Data Center website (<http://www.ncdc.noaa.gov/onlineprod/tfsod/climvis/main.html>). The data, daily rainfall values from 1 January, 1948 to 31 December, 1995, were collected at Seattle-Tacoma International Airport. All rainfall values were reported in inches.

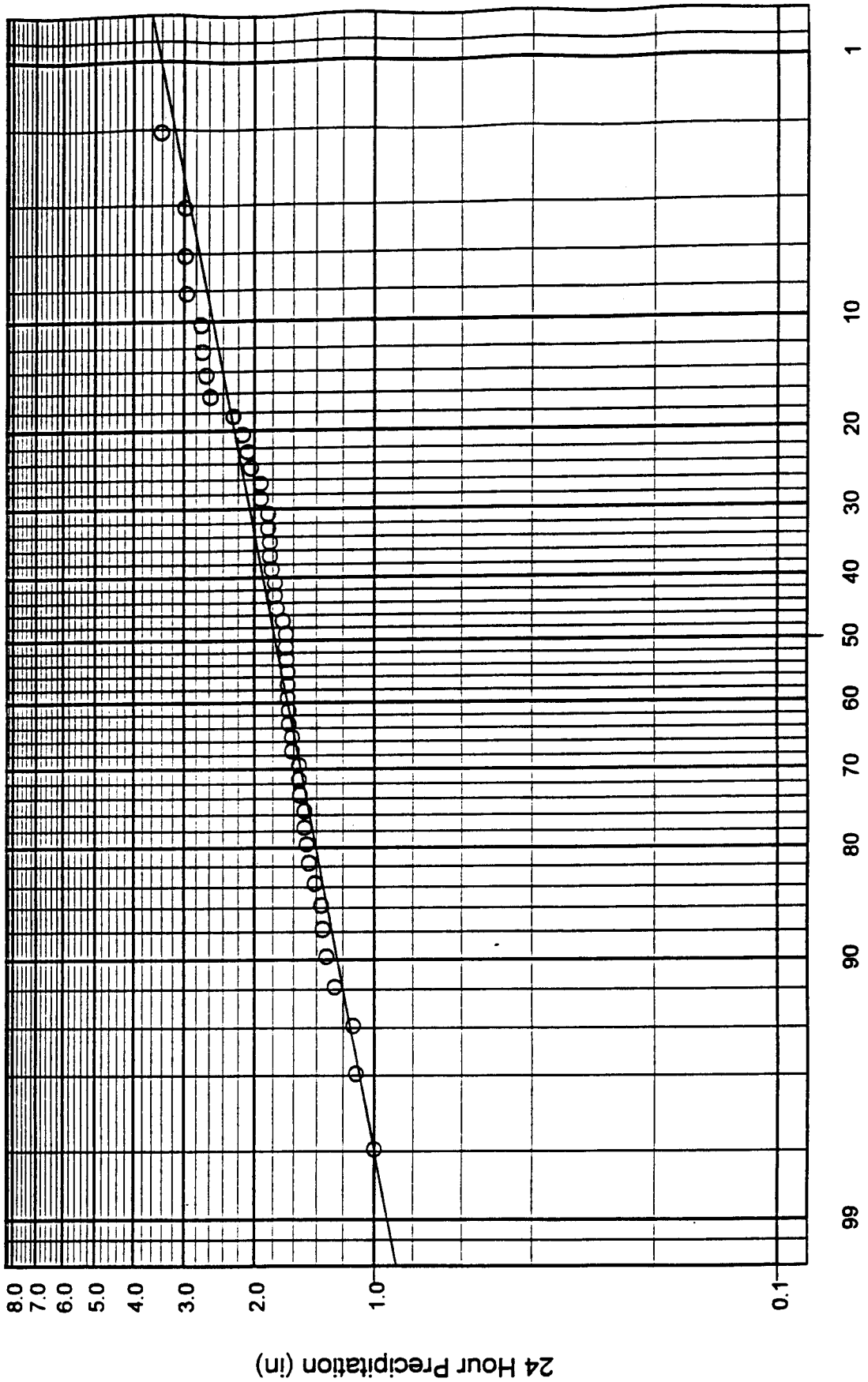
A rainfall exceedance probability describes the likelihood that precipitation falling within a given time period will exceed a given value. This value is constructed from the historical rainfall record and can be thought of as the recorded rainfall percentiles. For example, if 90% of January's maximum recorded daily rainfall values are less than 2 inches, then a maximum daily rainfall of 2 inches has an exceedance probability of 10% for January. Because of the finite length of the record (48 years), the resolution is limited to increments of 1/48. Other exceedance probabilities can be approximated, however, using linear regression (See appendices). Caution must be used if this approximation extends beyond the range of observed rainfall, in this case corresponding to exceedance probabilities less than 2% or greater than 98%.

To create this resource, probabilities were calculated for different interval lengths and for different time periods. For example, in addition to maximum daily rainfall, maximum total rainfall was calculated for time intervals ranging from two days to seven days. These time intervals were applied to time periods that ranged from single months to a year in length.

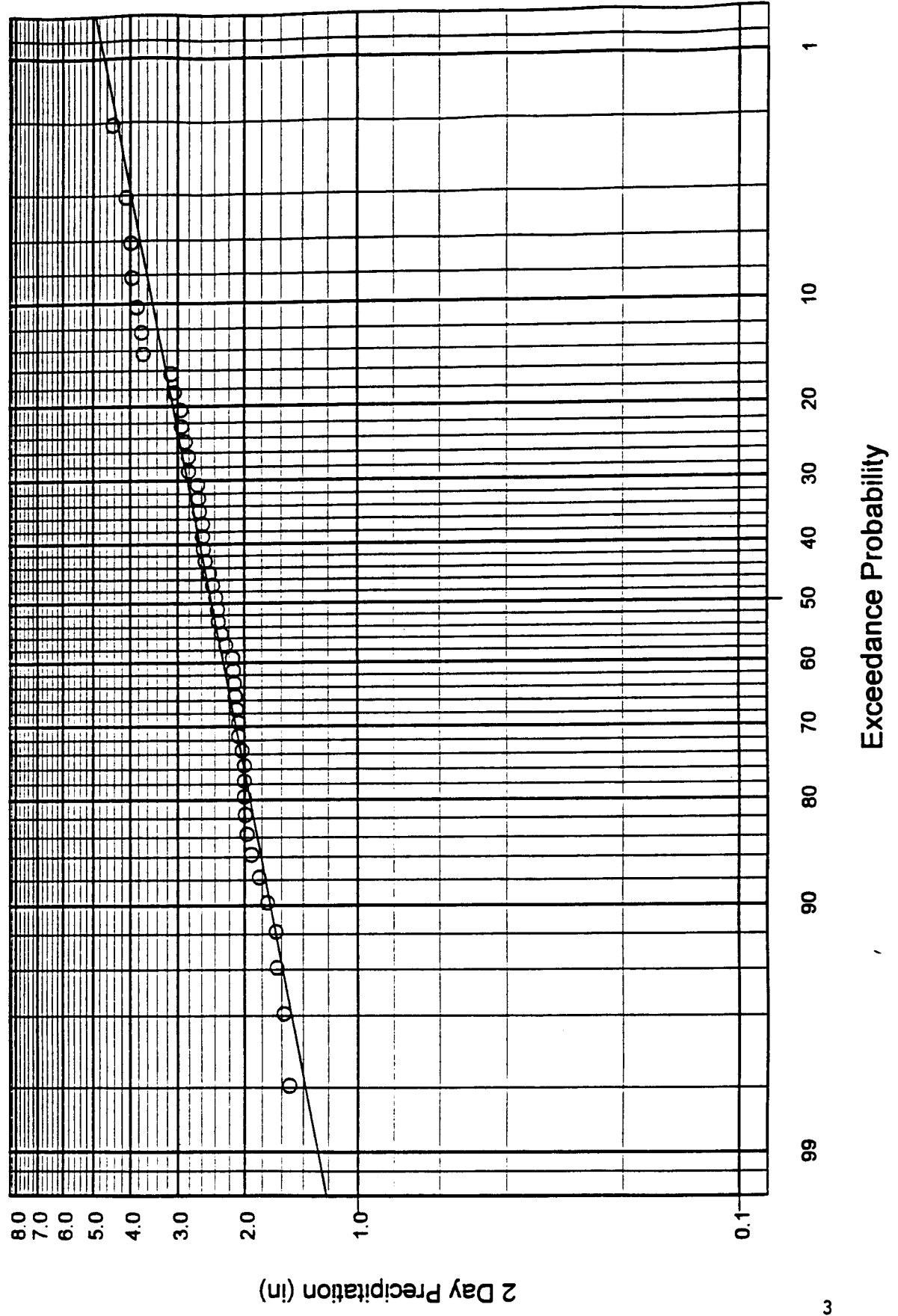
Exceedance probability-rainfall relationships can be approximated from probability plots or from the corresponding regression equations. Probability plots are included for the calendar year and for each month, as well as for the construction season (defined here as April-October). Two appendices include the formulas and tables of the required estimated parameters for all time intervals (daily to weekly) and time periods (monthly to annually). Two versions of these tables were created. The tables in Appendix A provide the values necessary to estimate an exceedance probability given a rainfall level, whereas the tables in Appendix B address the converse problem, estimating rainfall given an exceedance probability.

Another way to describe exceedance probabilities is to relate them to the idea of a twenty- or one hundred-year storm. For example, a 5% exceedance probability implies that rainfall will exceed the corresponding level, on average, five out of every one hundred years, or once every twenty years. Similarly, a 1% exceedance probability corresponds to a rainfall level that will be exceeded roughly once every one hundred years. This does not mean that these levels will only be exceeded once every few decades. A rapid succession of extremely wet years may result in 5% exceedance levels being surpassed in consecutive years. However, on average, only 5% of all recorded years will surpass the 5% exceedance level.

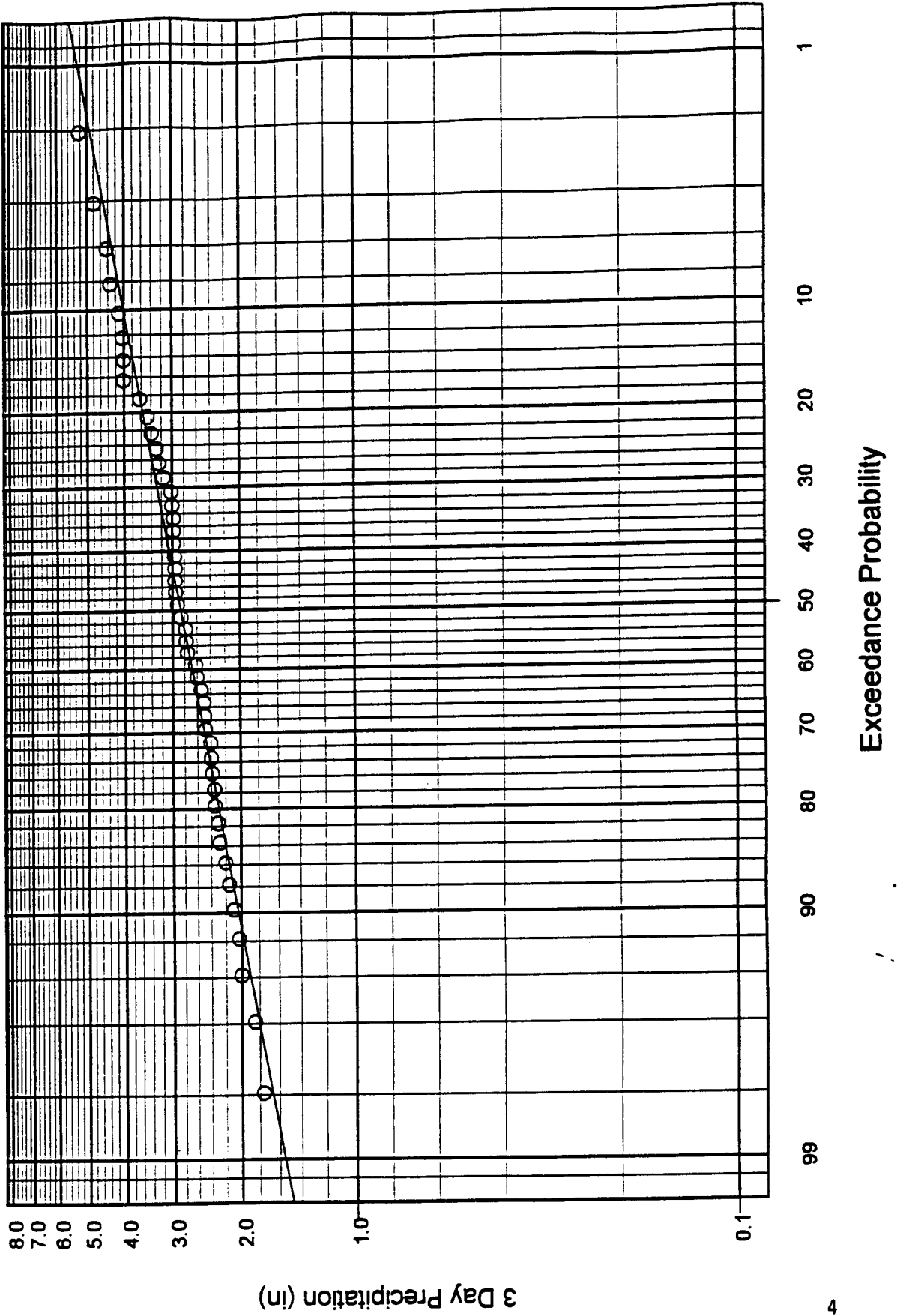
Annual Maximum 1 Day January-December Precipitation Seattle-Tacoma International Airport, 1948-1995



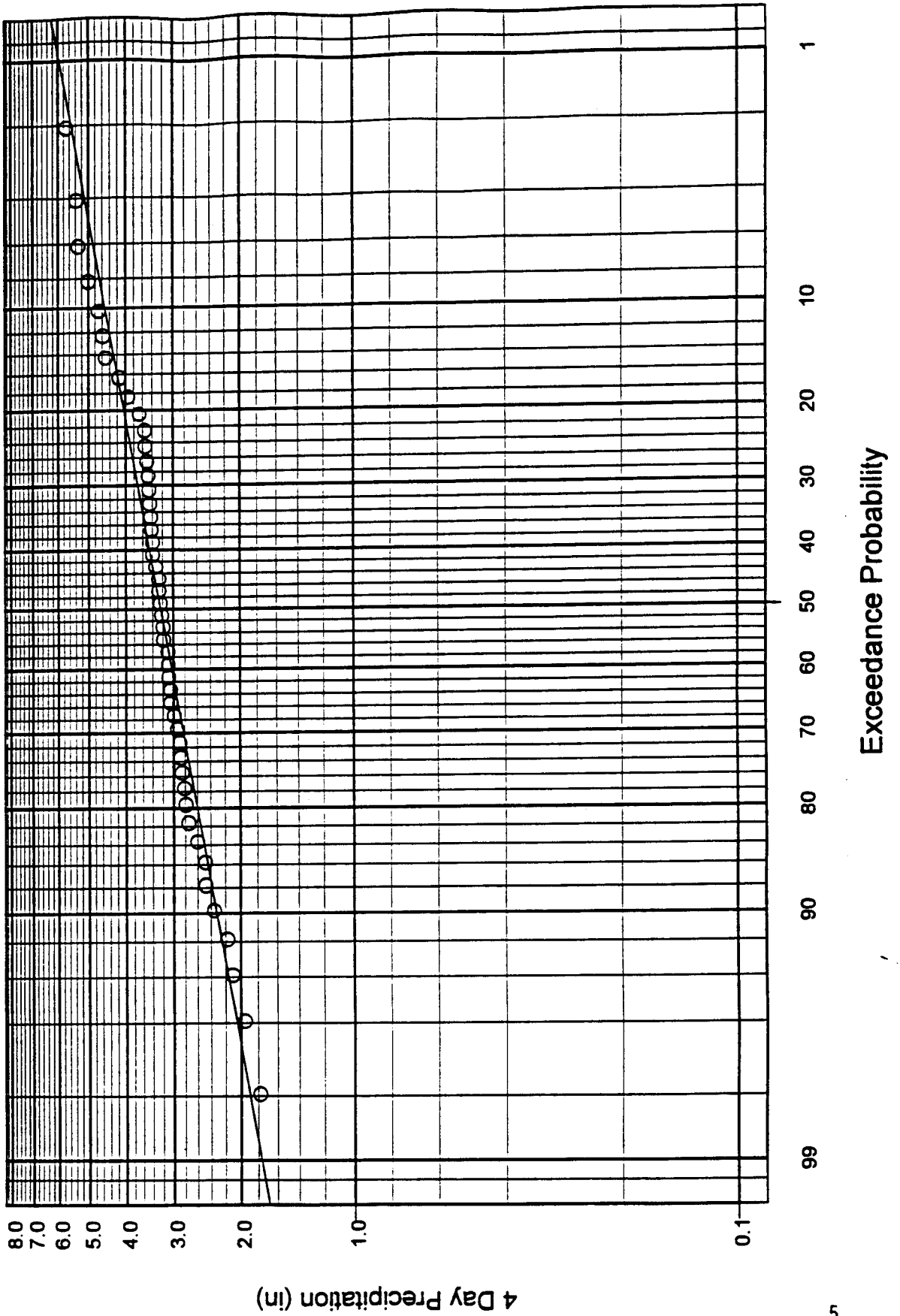
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Seattle-Tacoma International Airport, 1948-1995



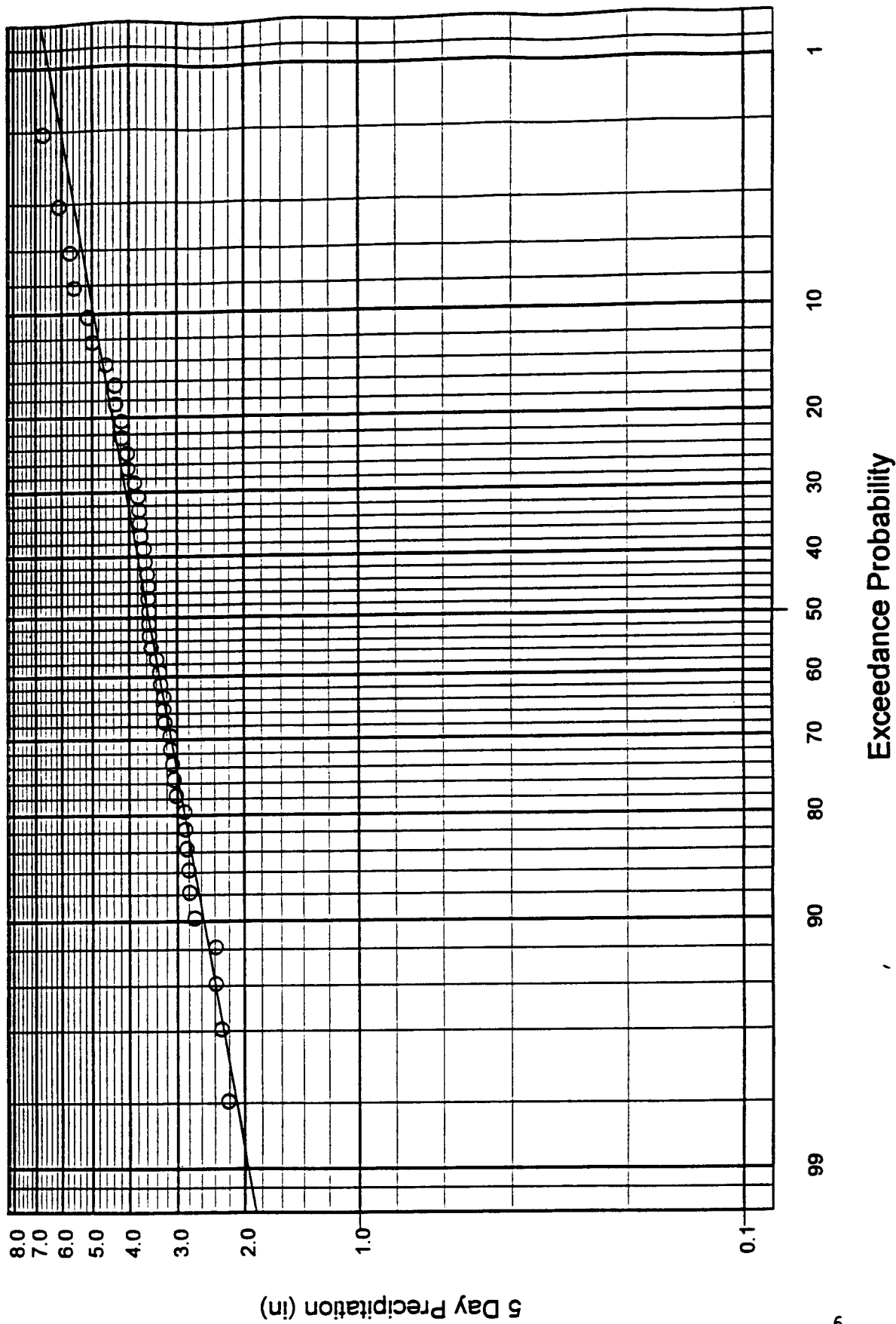
Annual Maximum 3 Day January-December Precipitation
Seattle-Tacoma International Airport, 1948-1995



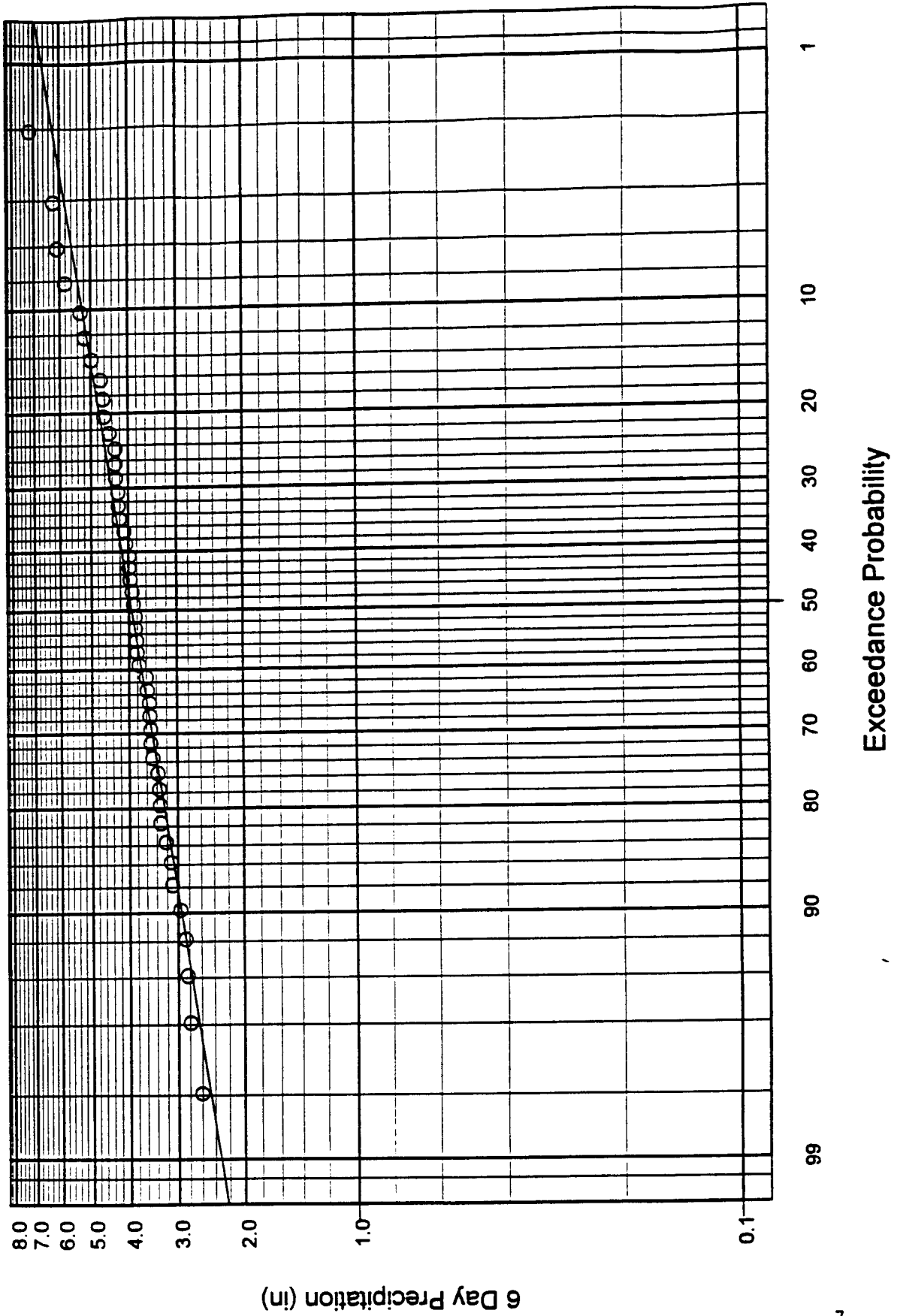
Annual Maximum 4 Day January-December Precipitation
 Seattle-Tacoma International Airport, 1948-1995



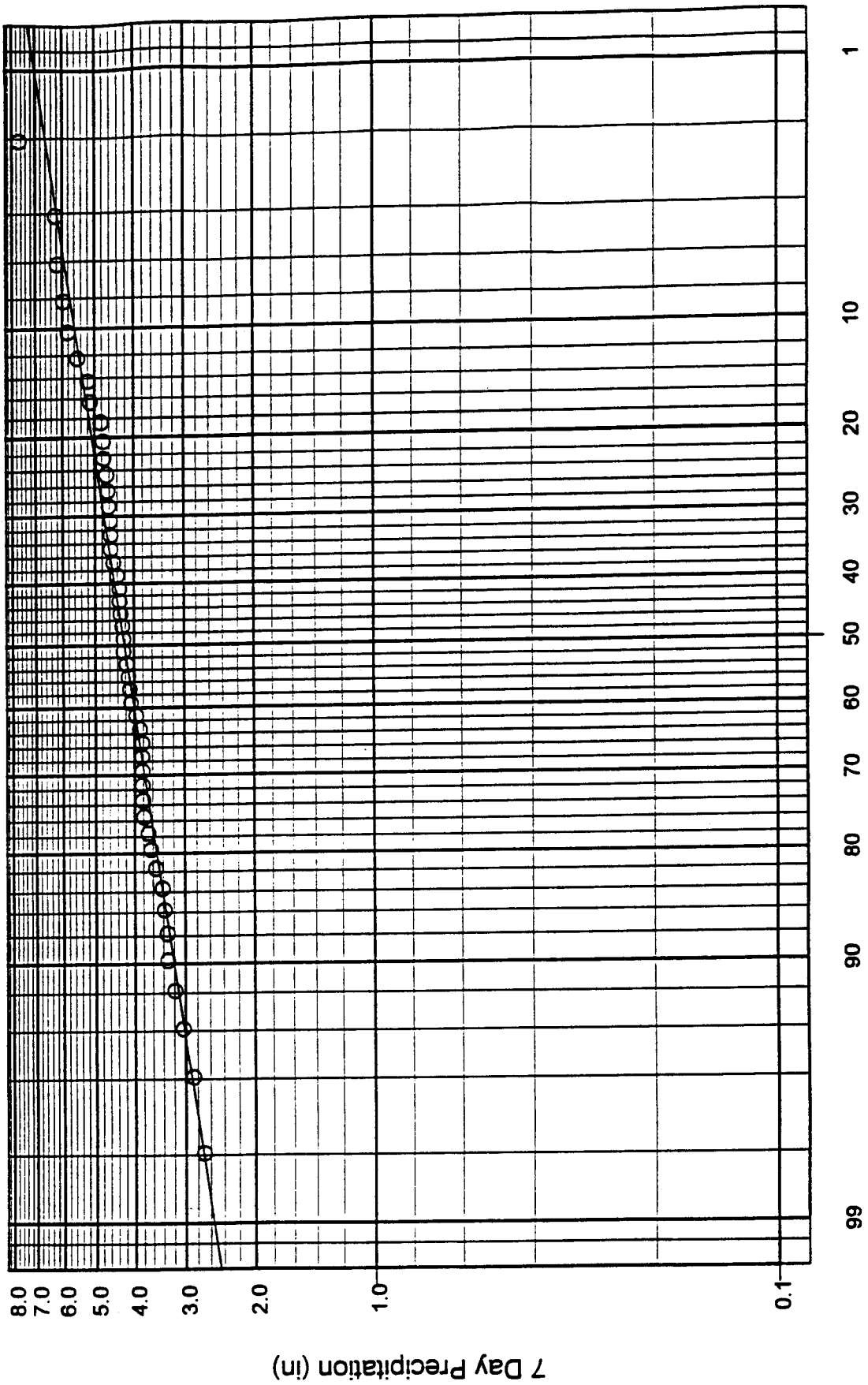
Annual Maximum 5 Day January-December Precipitation Seattle-Tacoma International Airport, 1948-1995



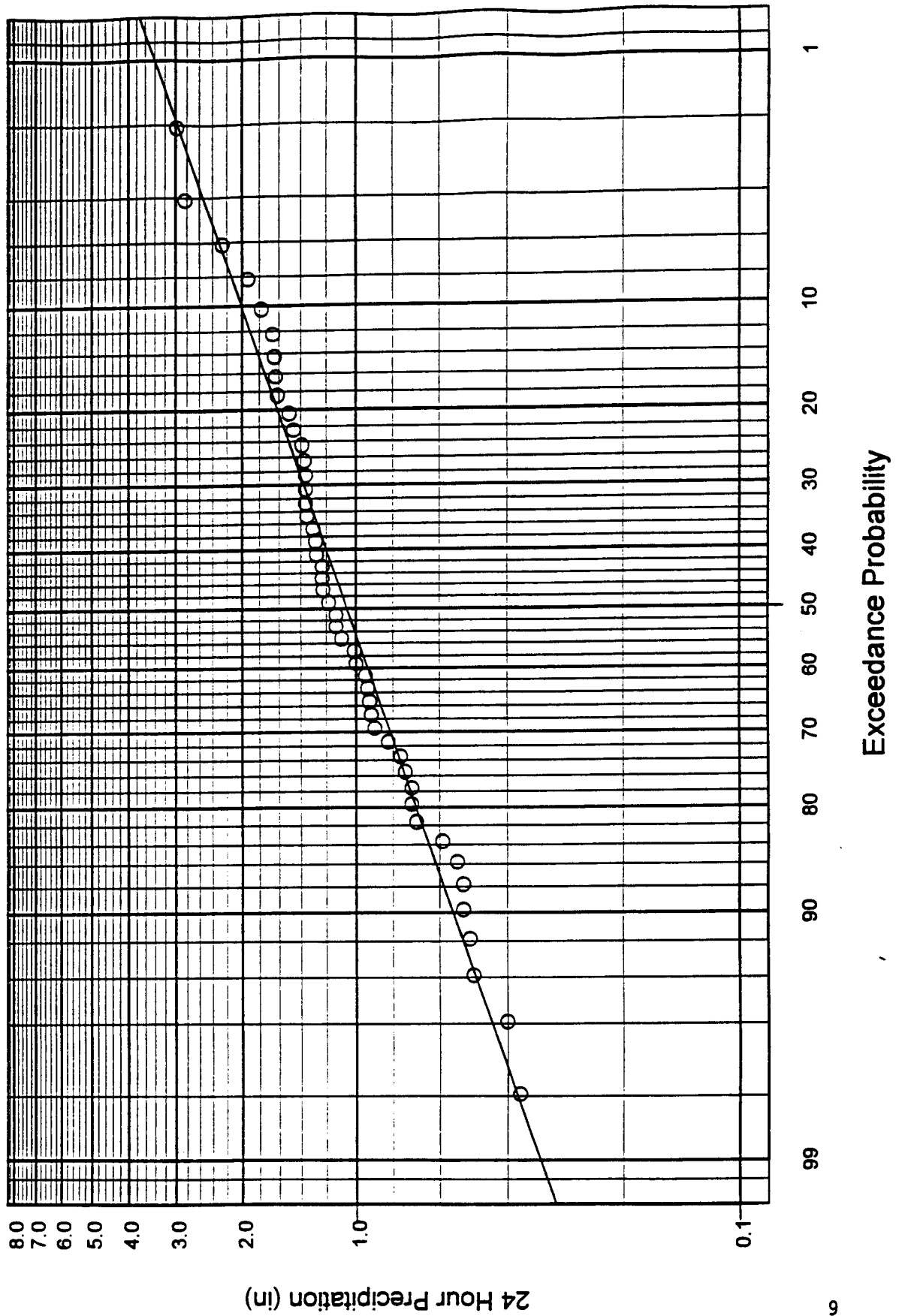
Annual Maximum 6 Day January-December Precipitation
Seattle-Tacoma International Airport, 1948-1995



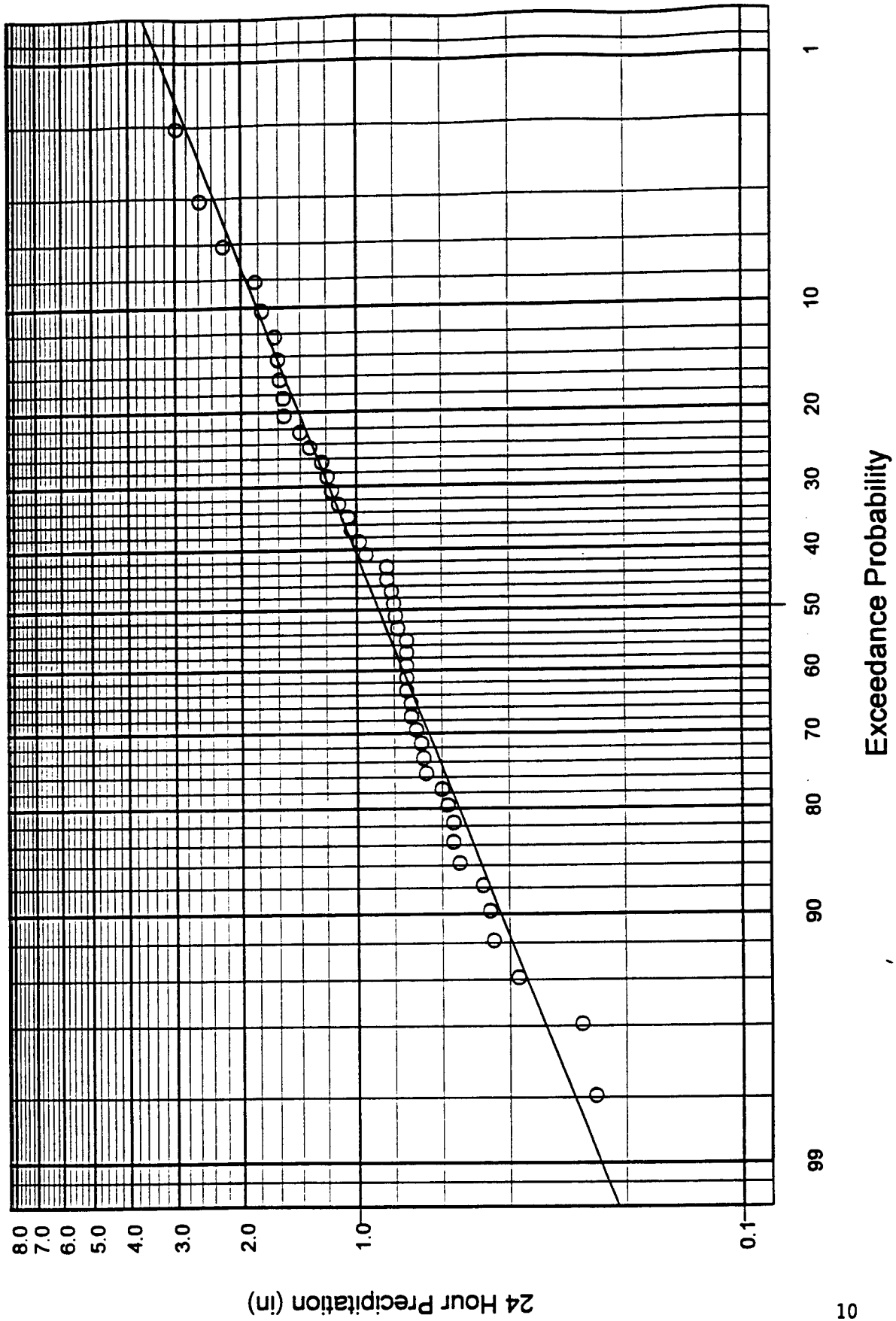
Annual Maximum 7 Day January-December Precipitation
Seattle-Tacoma International Airport, 1948-1995



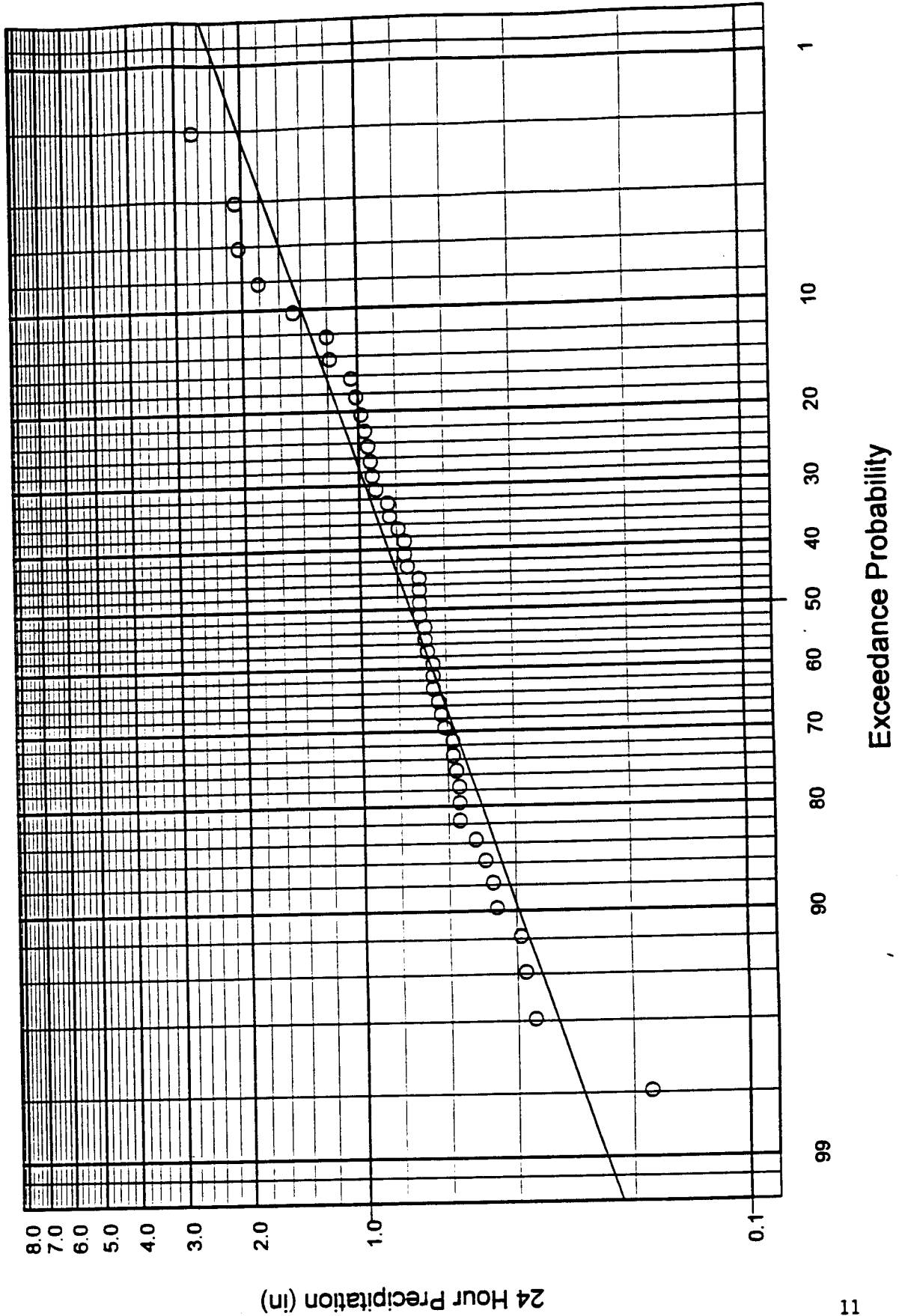
Annual Maximum 1 Day January Precipitation
 Seattle-Tacoma International Airport, 1948-1995



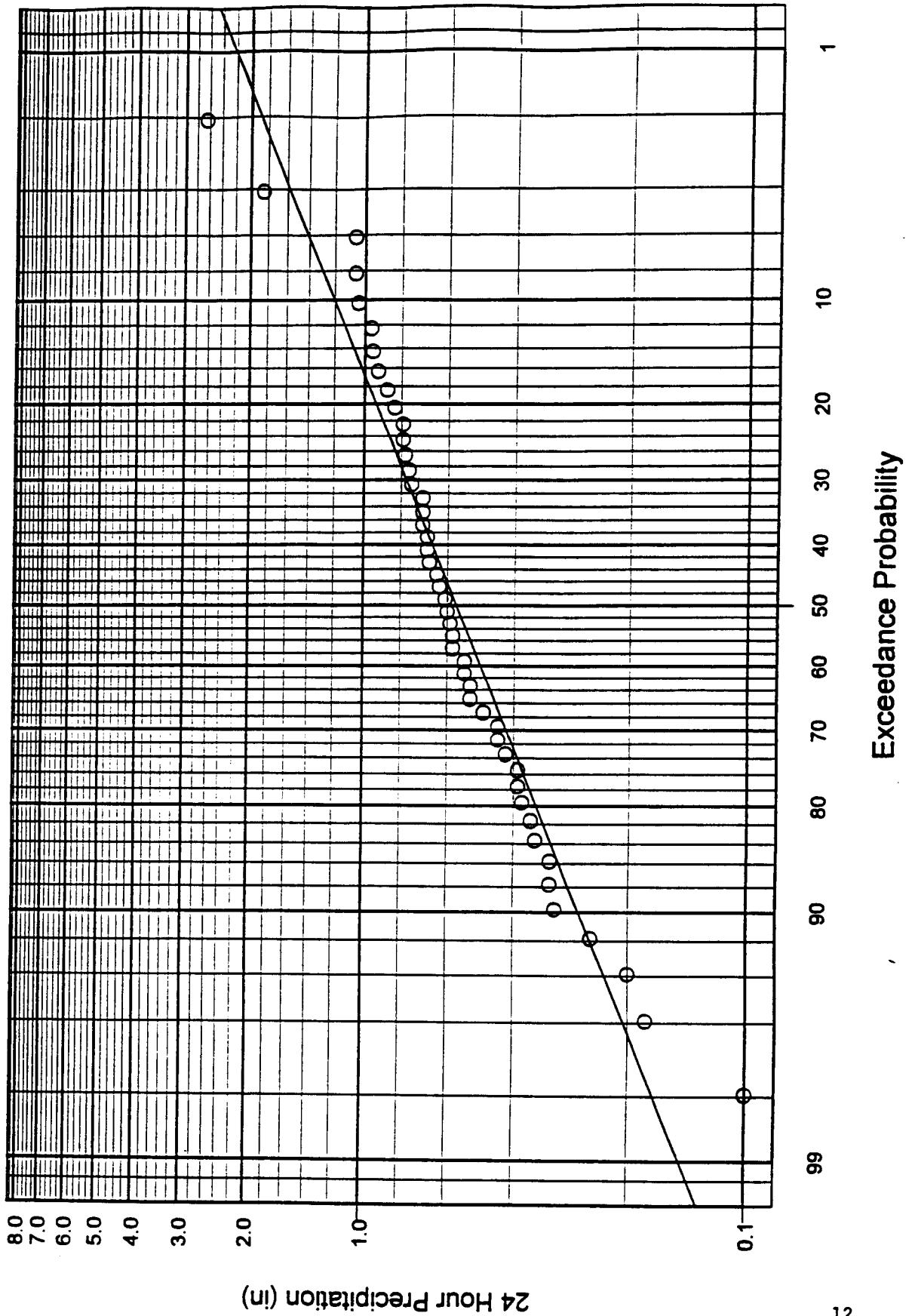
Annual Maximum 1 Day February Precipitation
 Seattle-Tacoma International Airport, 1948-1995



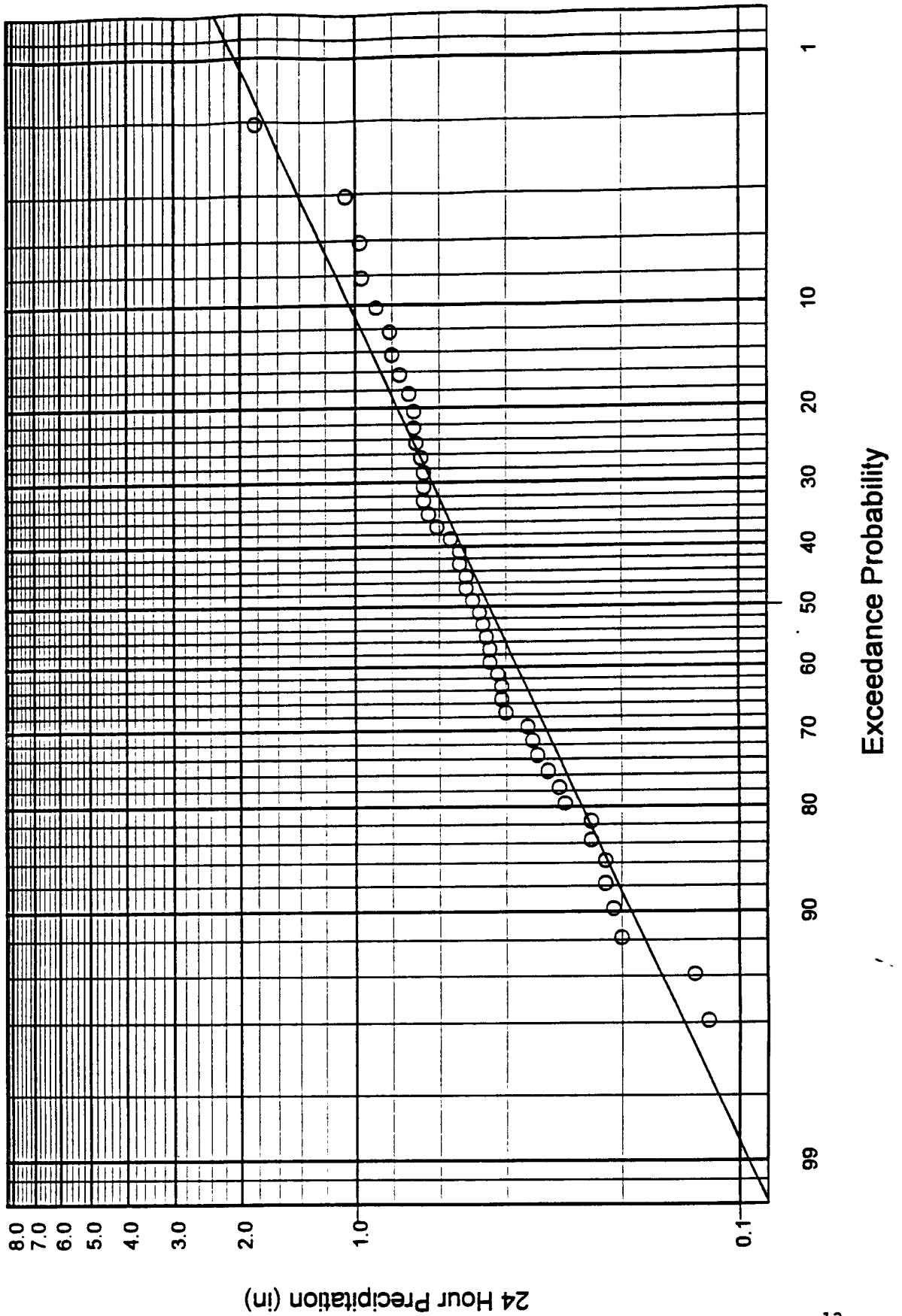
Annual Maximum 1 Day March Precipitation
 Seattle-Tacoma International Airport, 1948-1995



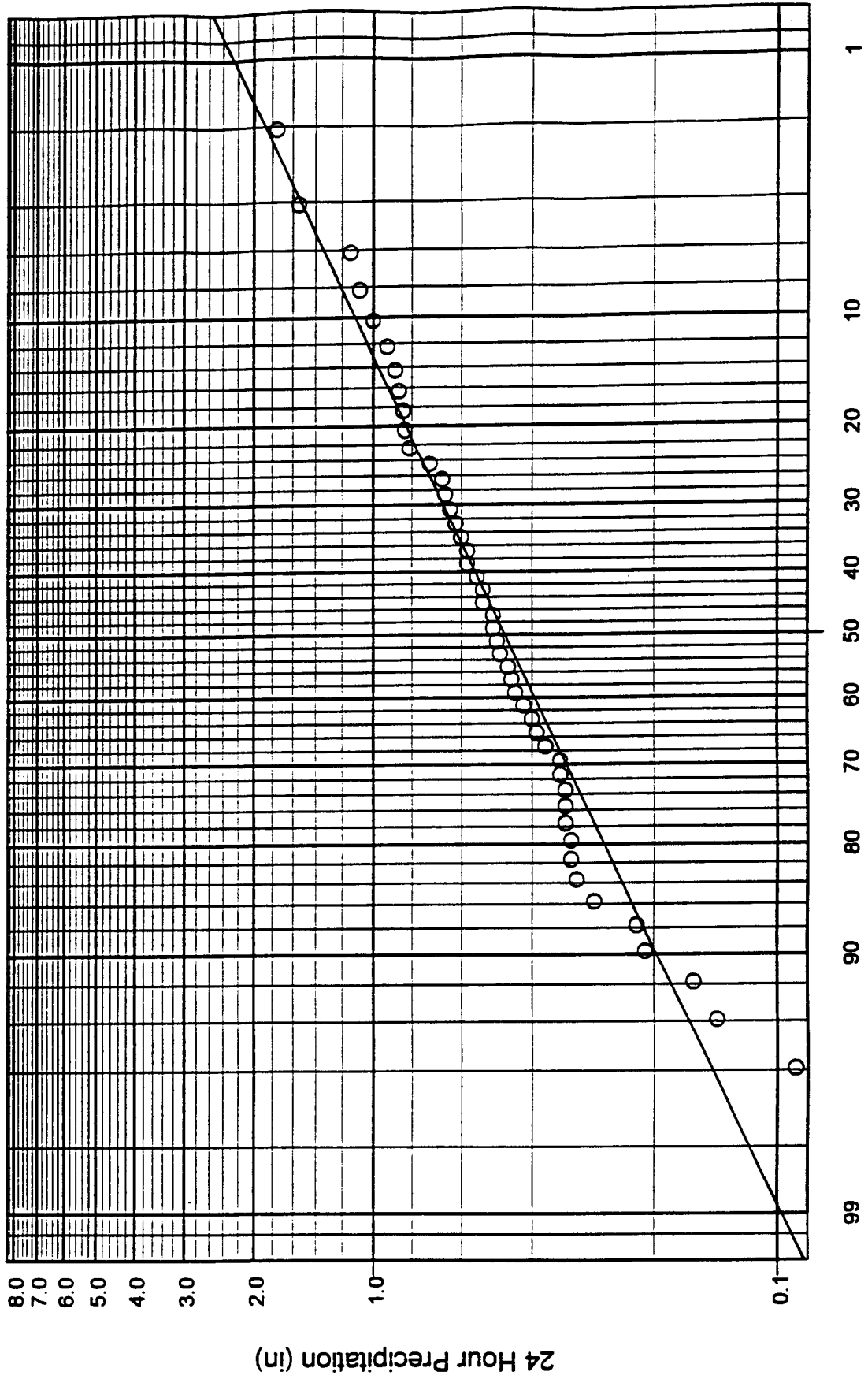
Annual Maximum 1 Day April Precipitation
 Seattle-Tacoma International Airport, 1948-1995



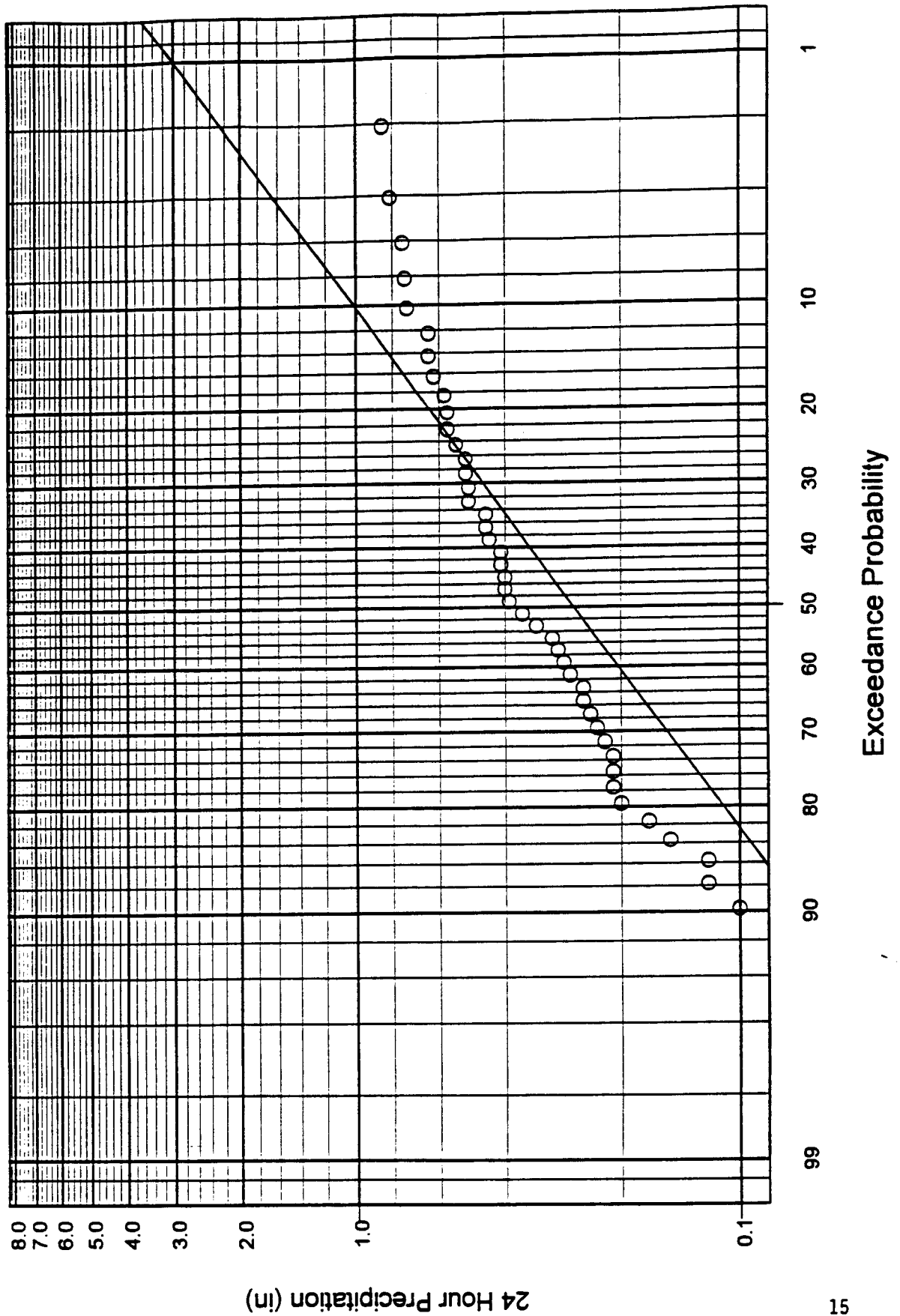
Annual Maximum 1 Day May Precipitation
 Seattle-Tacoma International Airport, 1948-1995



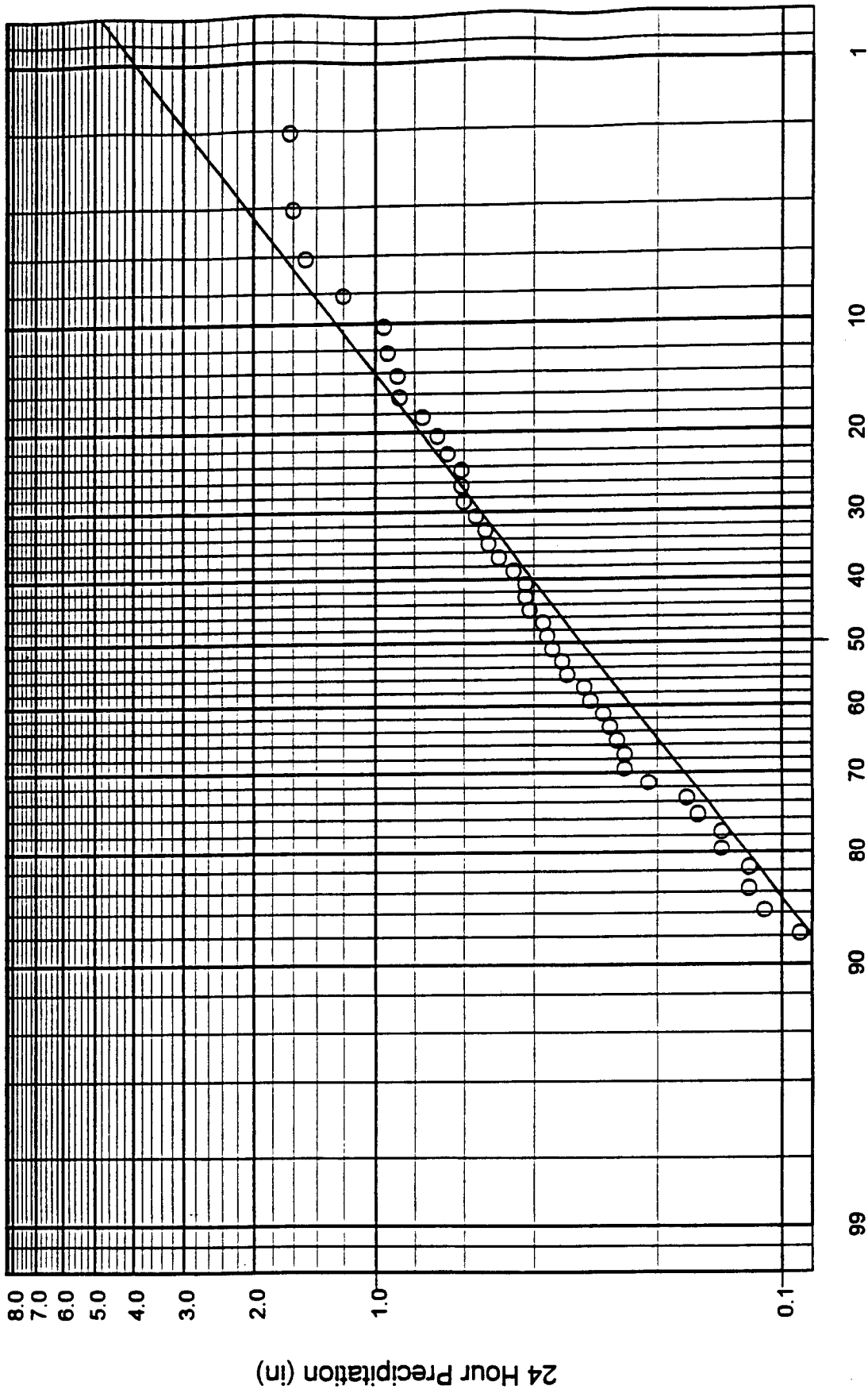
Annual Maximum 1 Day June Precipitation
 Seattle-Tacoma International Airport, 1948-1995



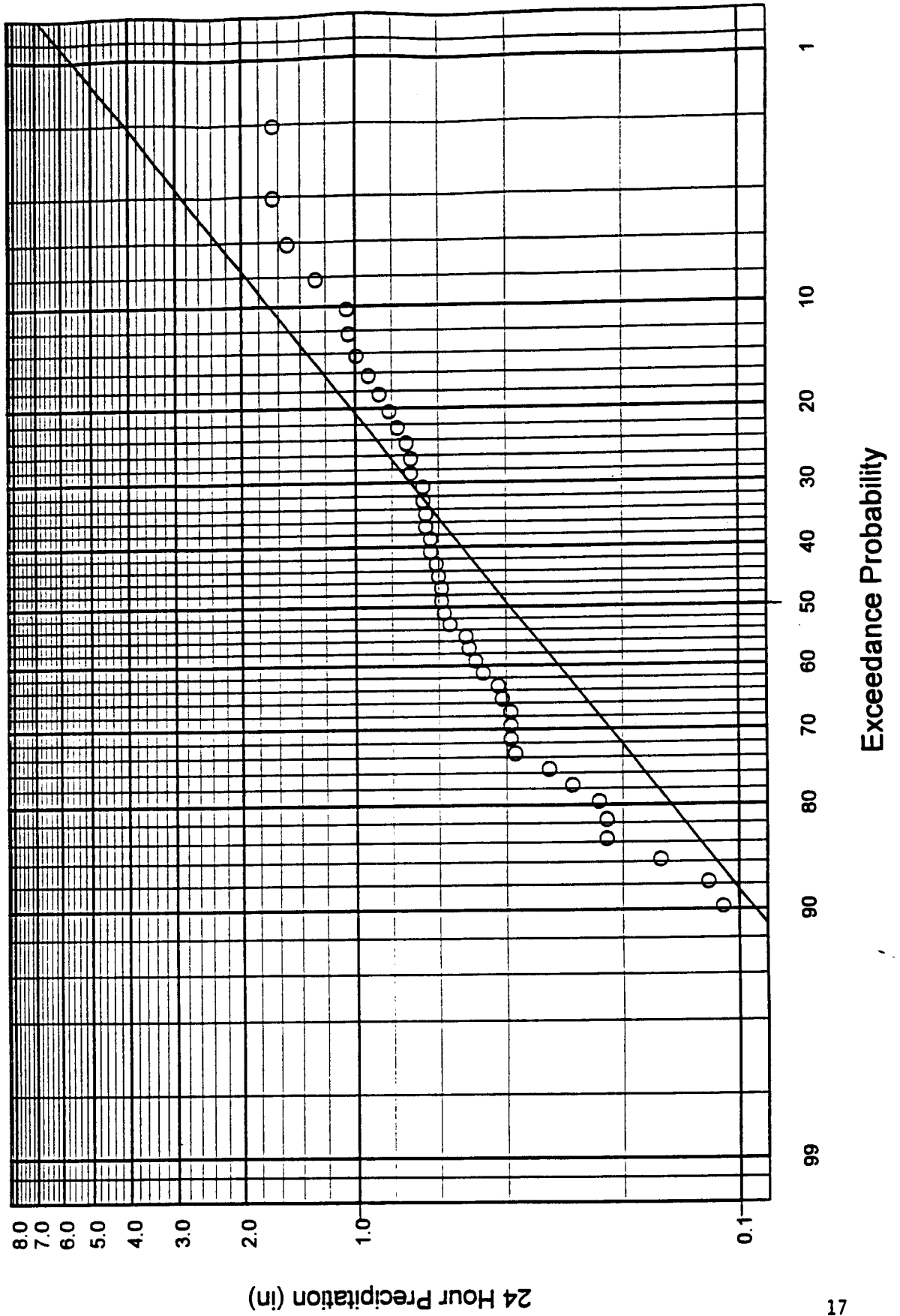
Annual Maximum 1 Day July Precipitation Seattle-Tacoma International Airport, 1948-1995



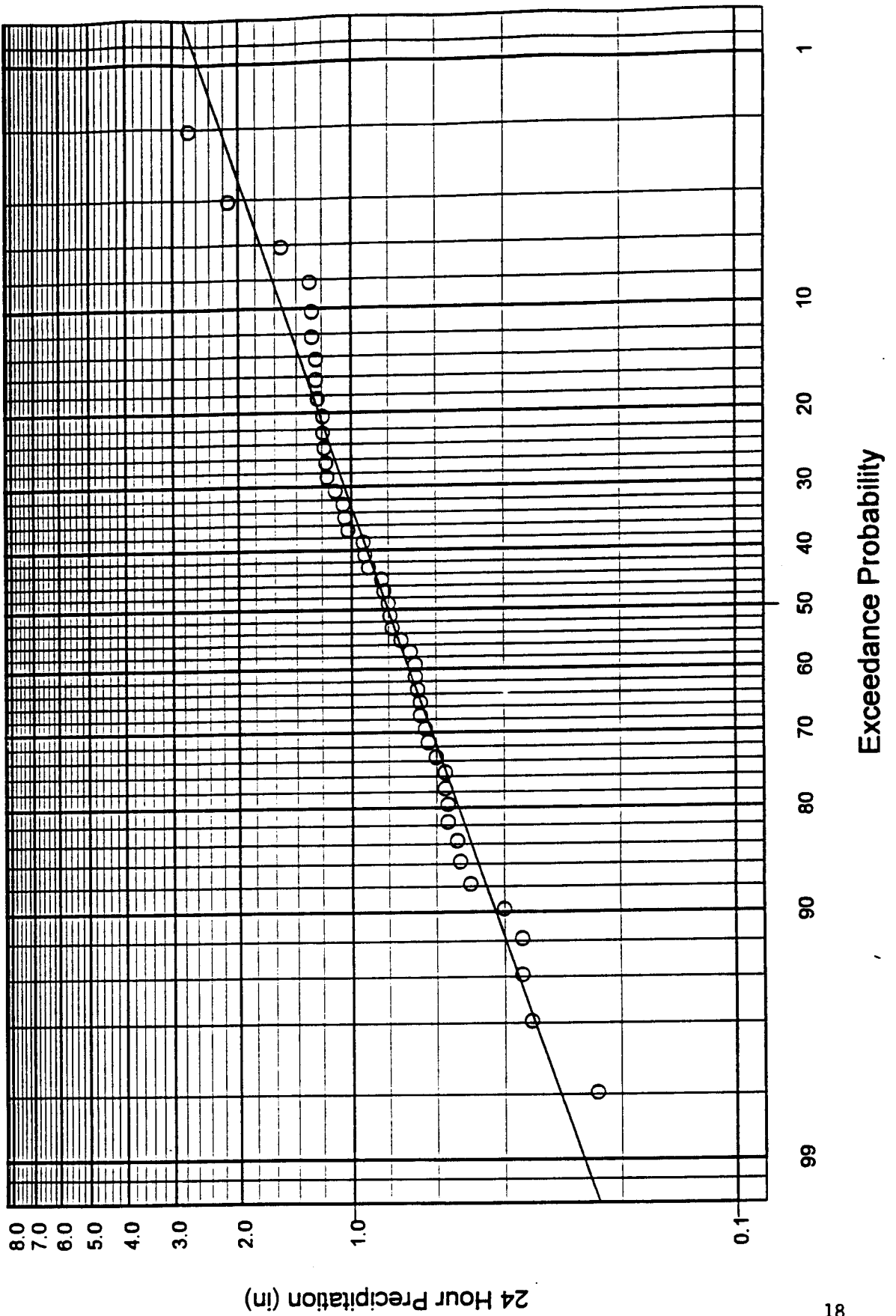
Annual Maximum 1 Day August Precipitation Seattle-Tacoma International Airport, 1948-1995



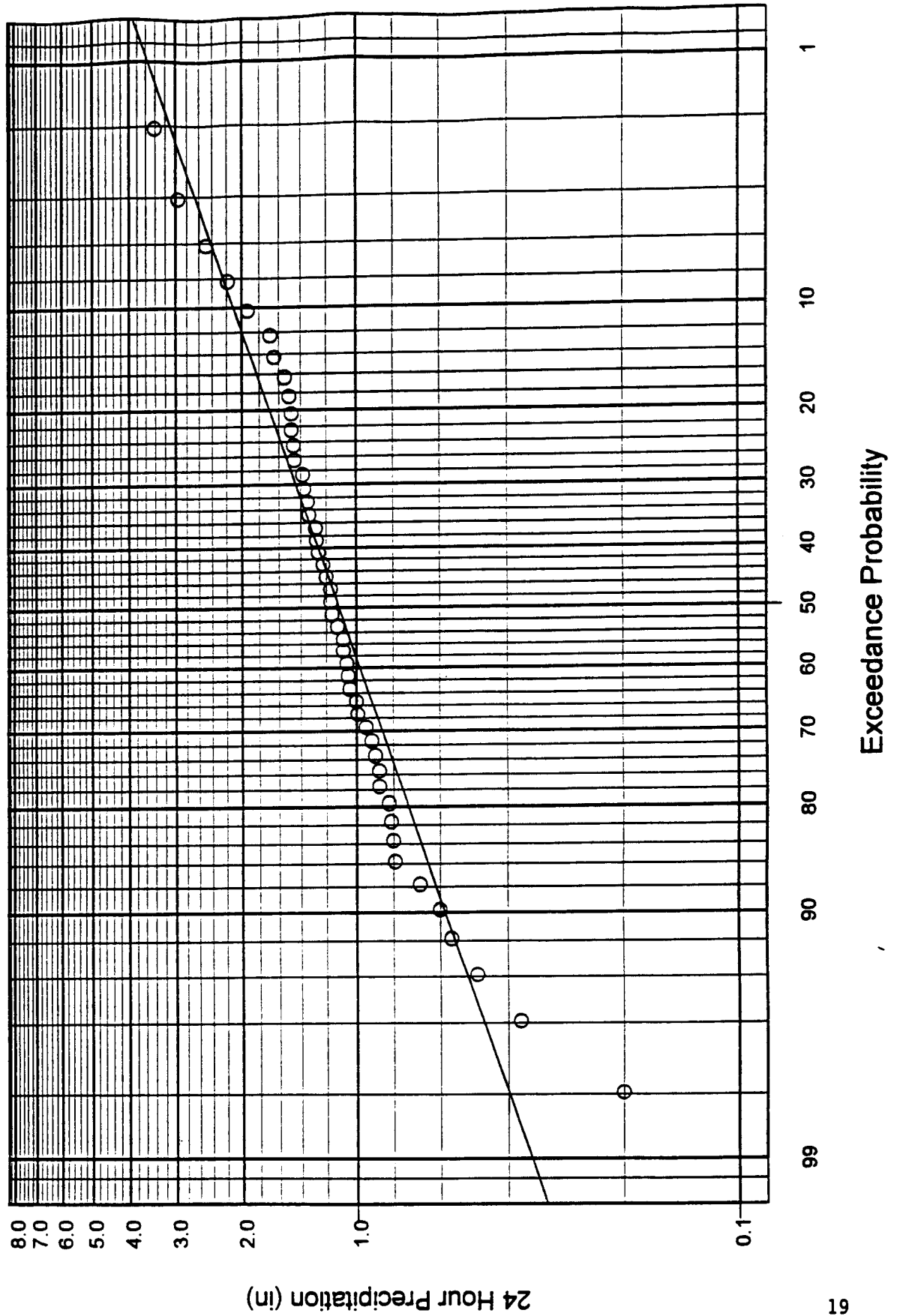
Annual Maximum 1 Day September Precipitation Seattle-Tacoma International Airport, 1948-1995



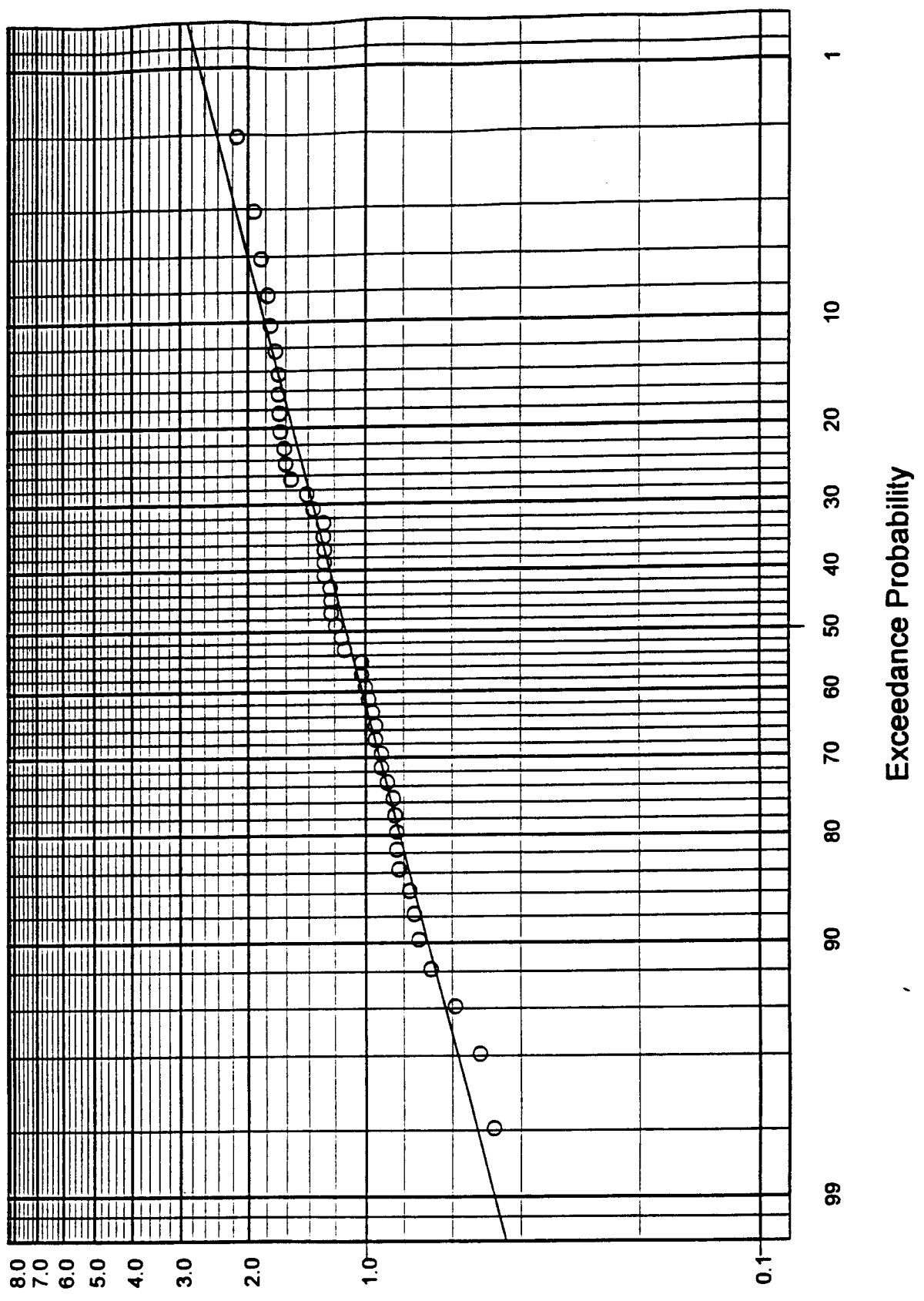
Annual Maximum 1 Day October Precipitation
 Seattle-Tacoma International Airport, 1948-1995



Annual Maximum 1 Day November Precipitation Seattle-Tacoma International Airport, 1948-1995

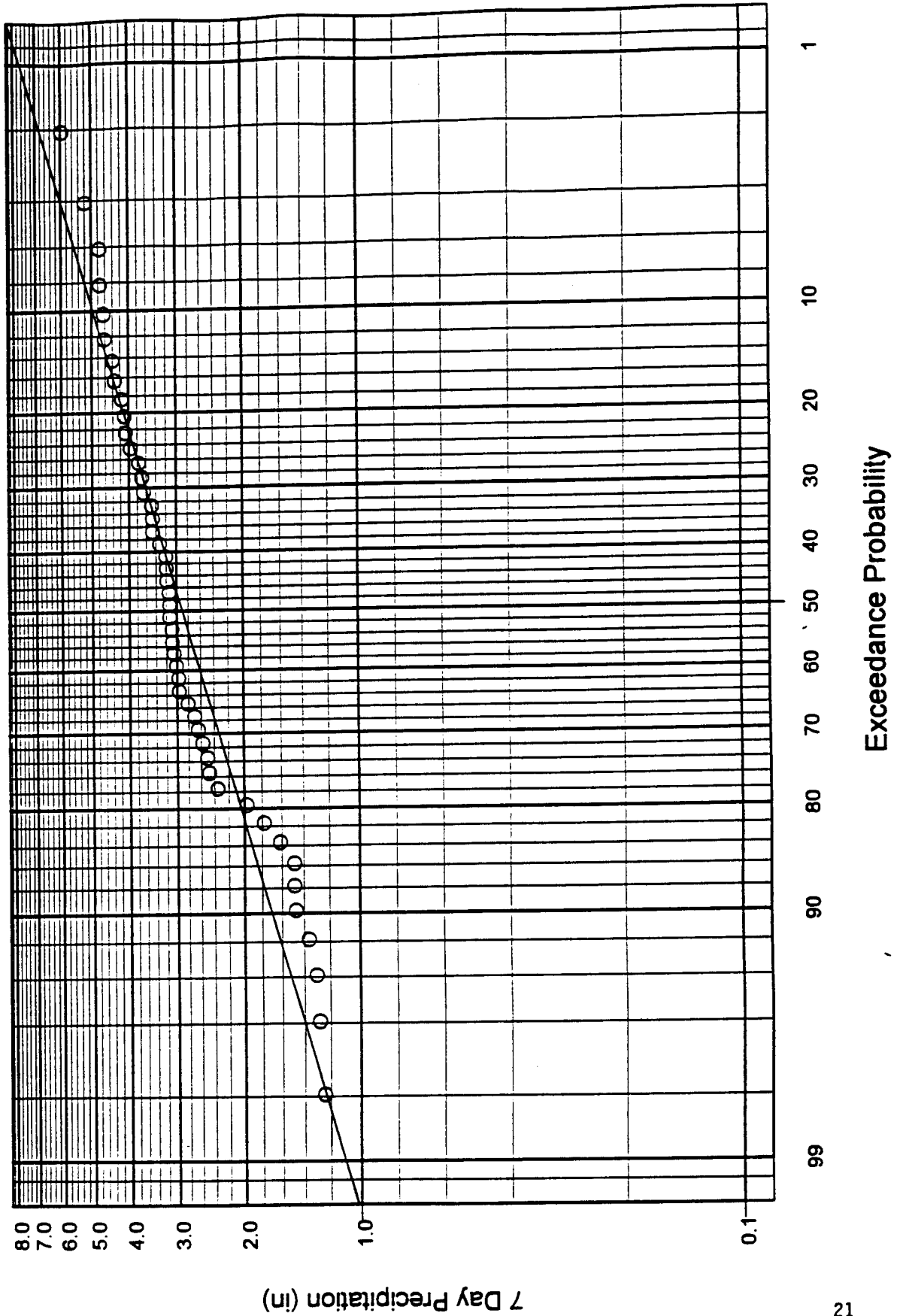


Annual Maximum 1 Day December Precipitation Seattle-Tacoma International Airport, 1948-1995

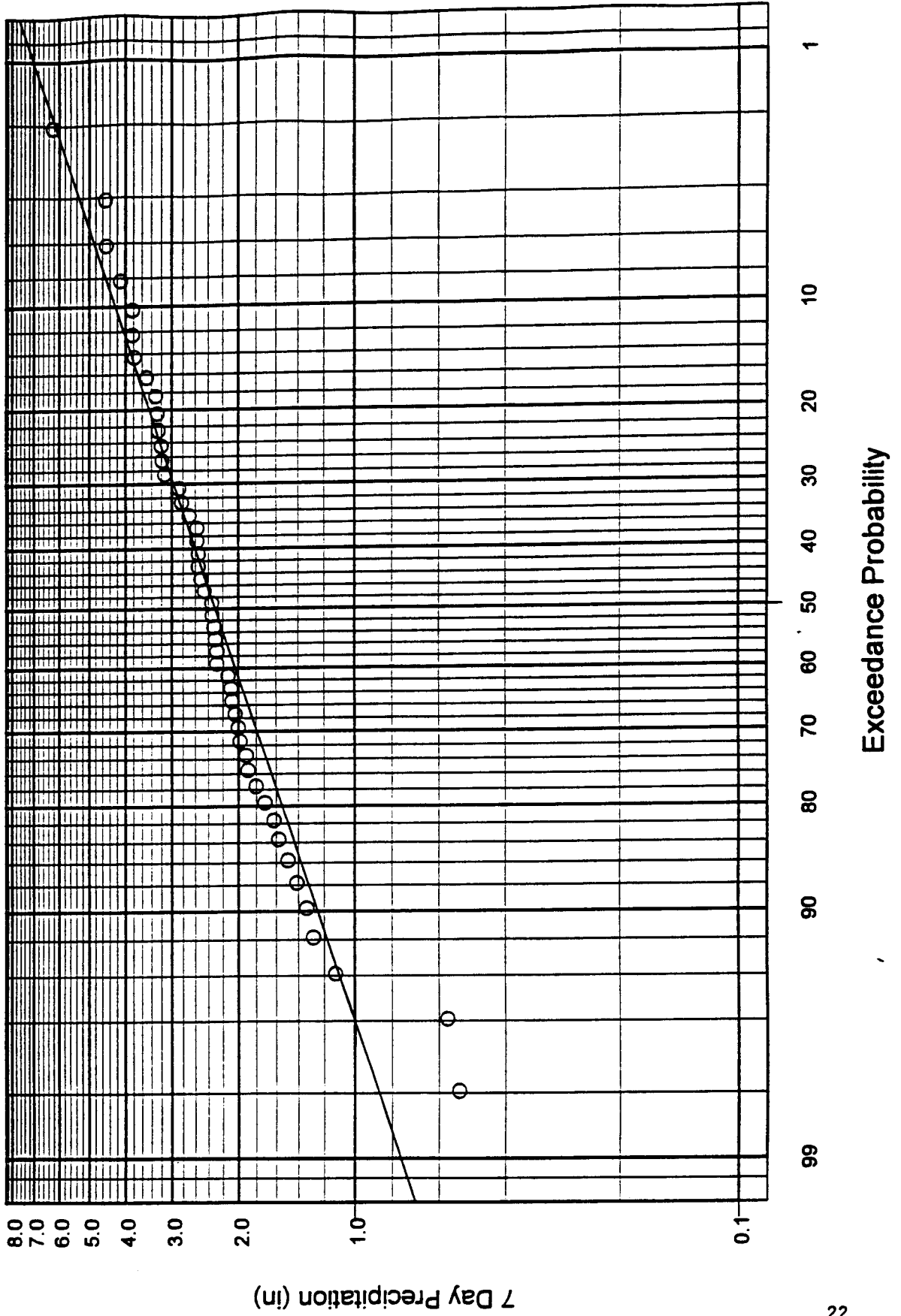


24 Hour Precipitation (in)

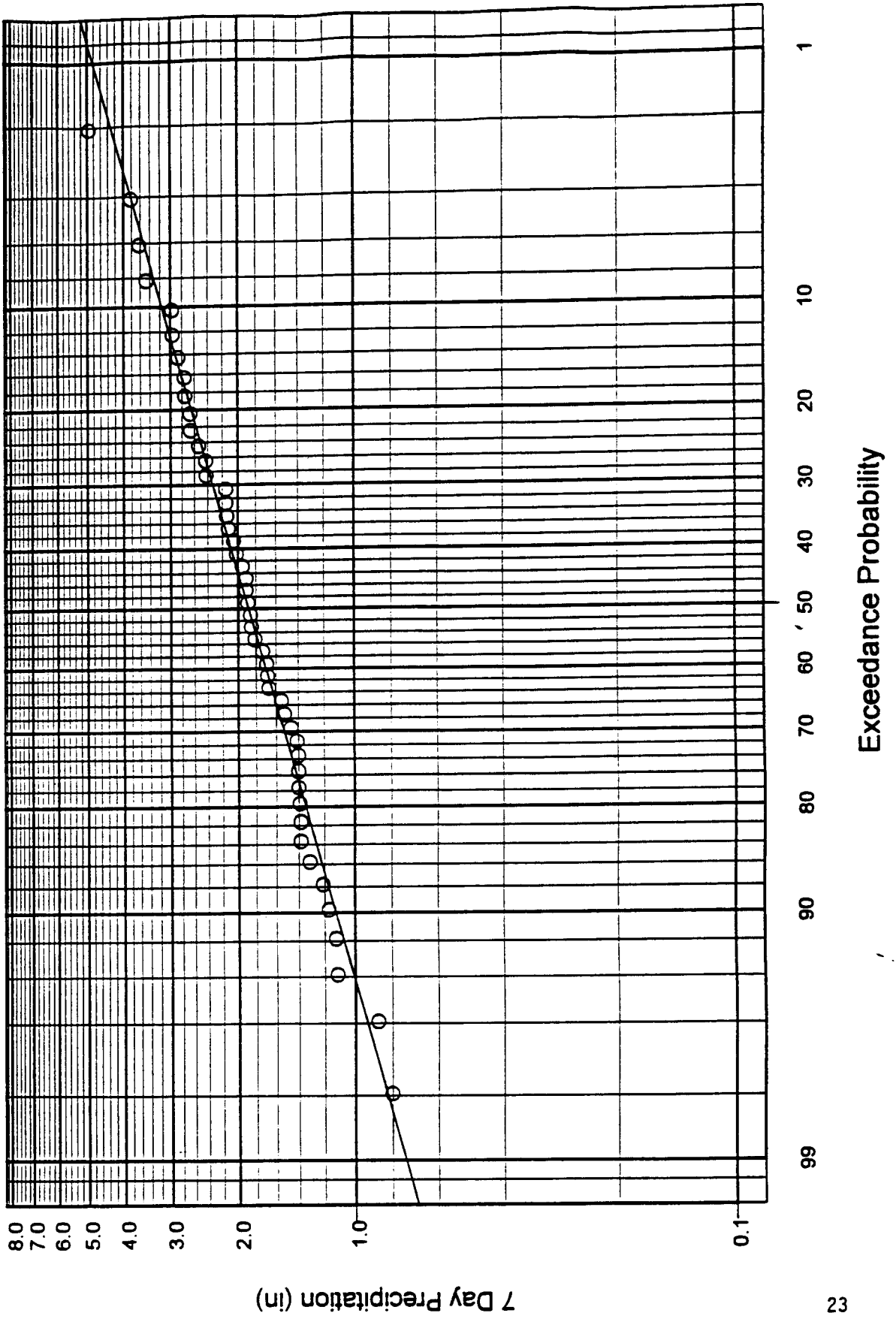
Annual Maximum 7 Day January Precipitation
 Seattle-Tacoma International Airport, 1948-1995



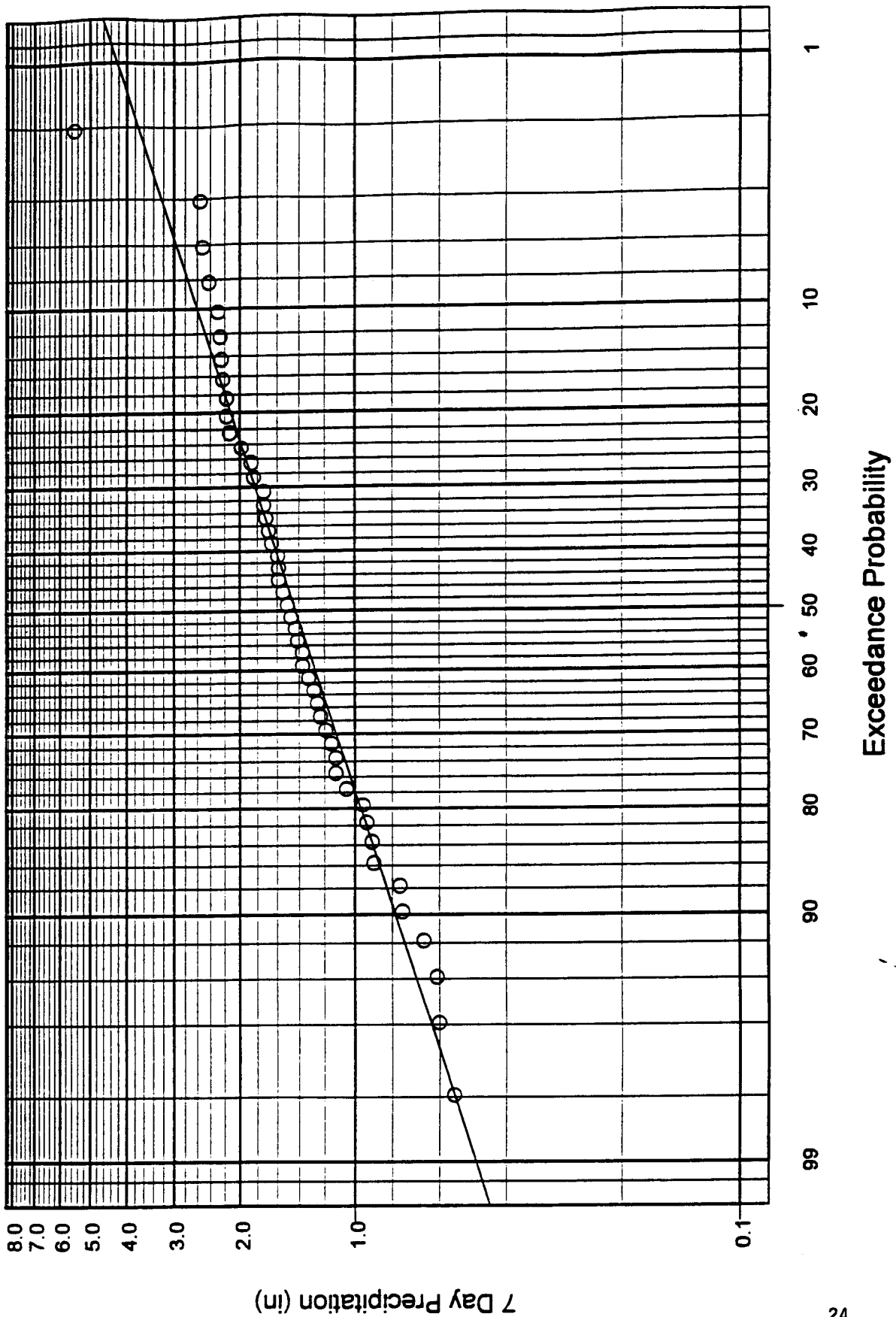
Annual Maximum 7 Day February Precipitation Seattle-Tacoma International Airport, 1948-1995



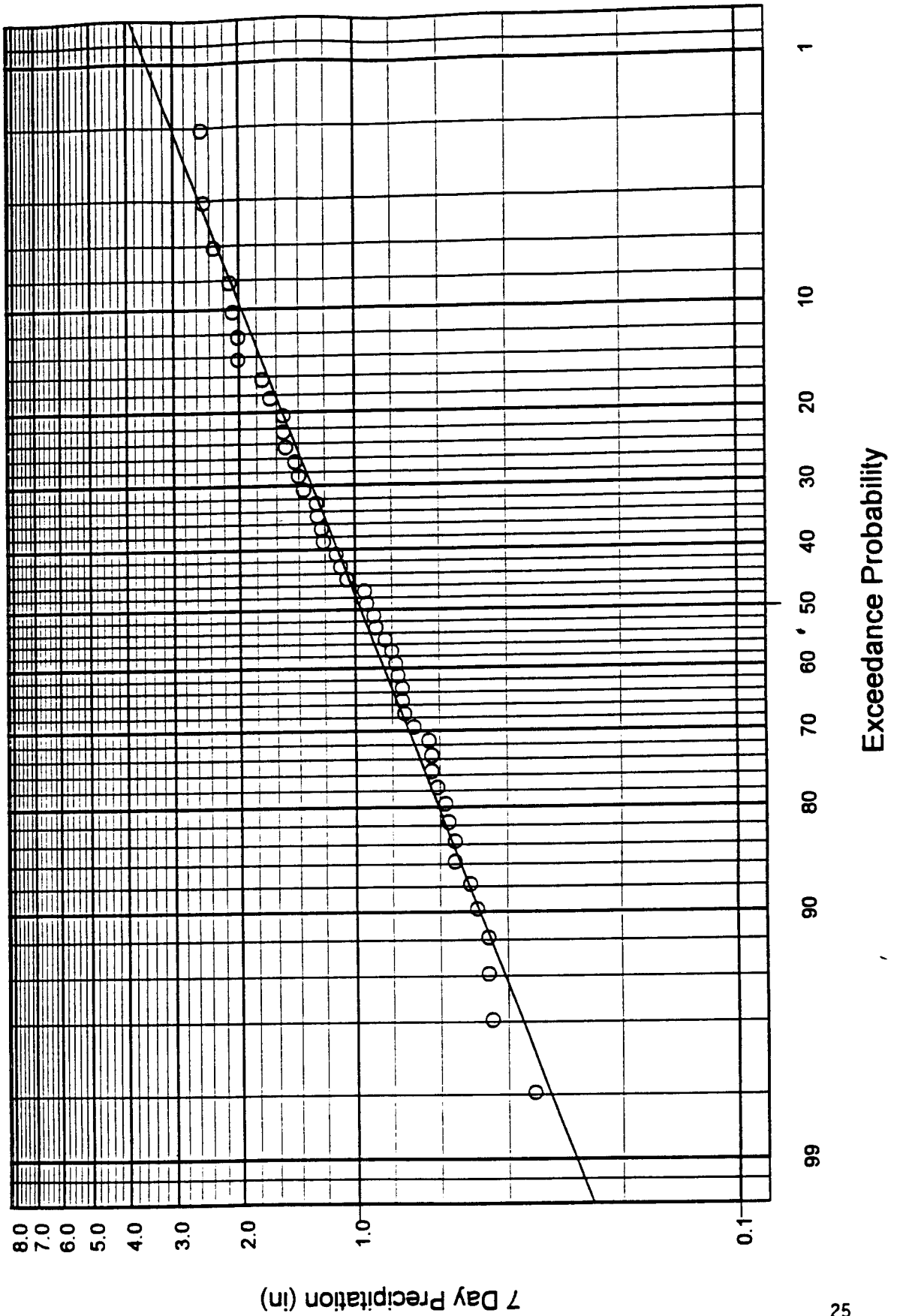
Annual Maximum 7 Day March Precipitation Seattle-Tacoma International Airport, 1948-1995



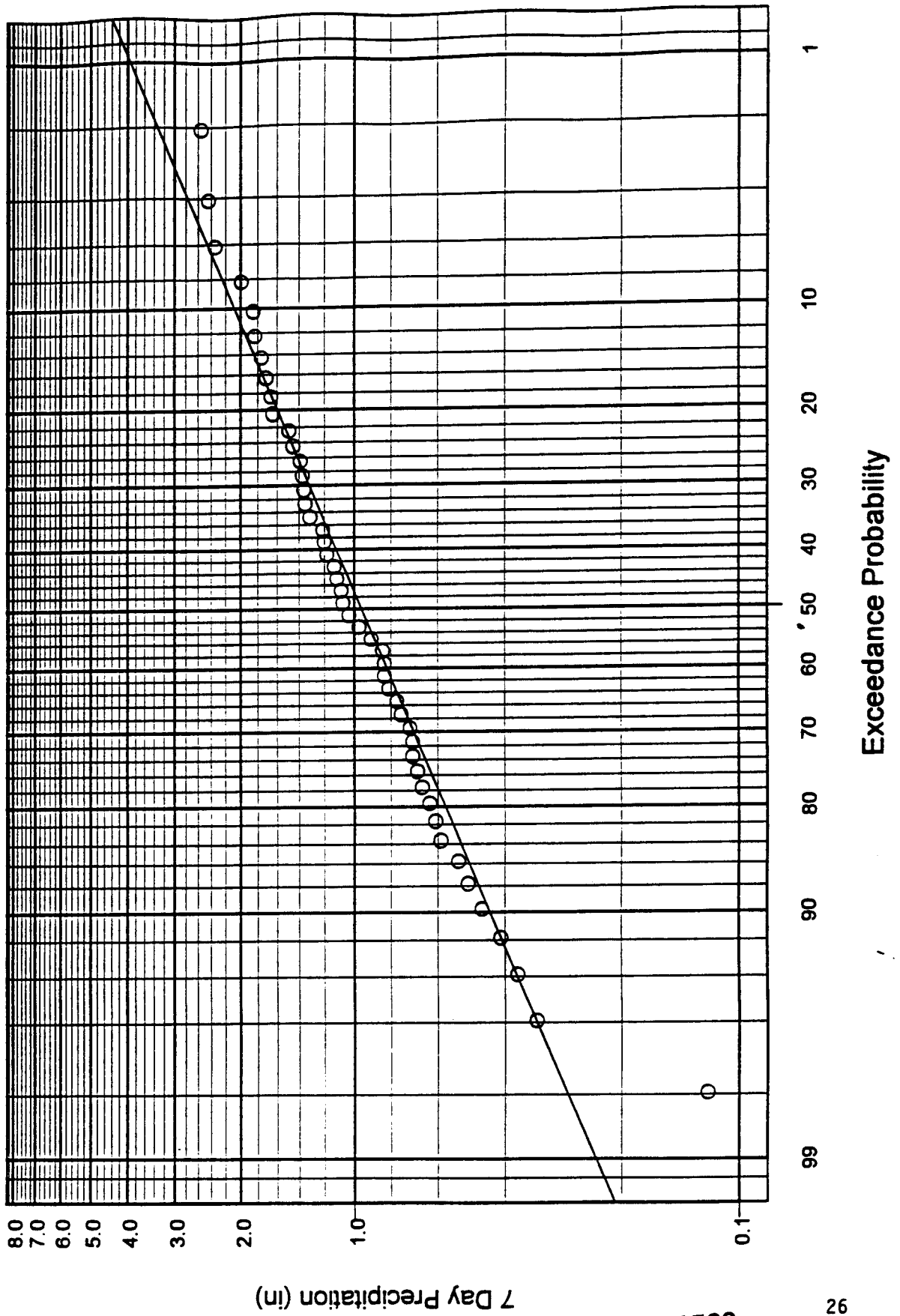
Annual Maximum 7 Day April Precipitation
Seattle-Tacoma International Airport, 1948-1995



Annual Maximum 7 Day May Precipitation
Seattle-Tacoma International Airport, 1948-1995

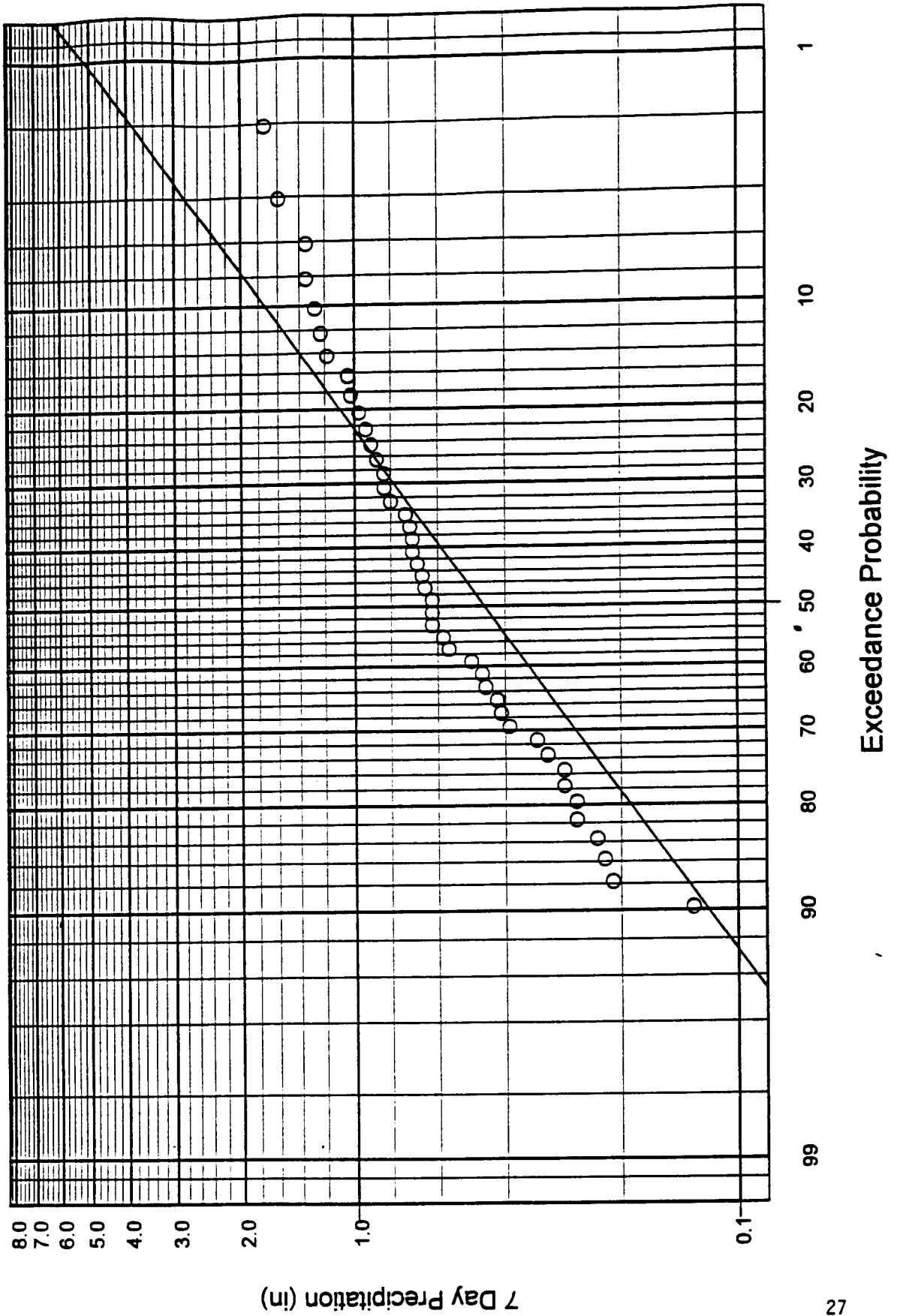


Annual Maximum 7 Day June Precipitation
Seattle-Tacoma International Airport, 1948-1995

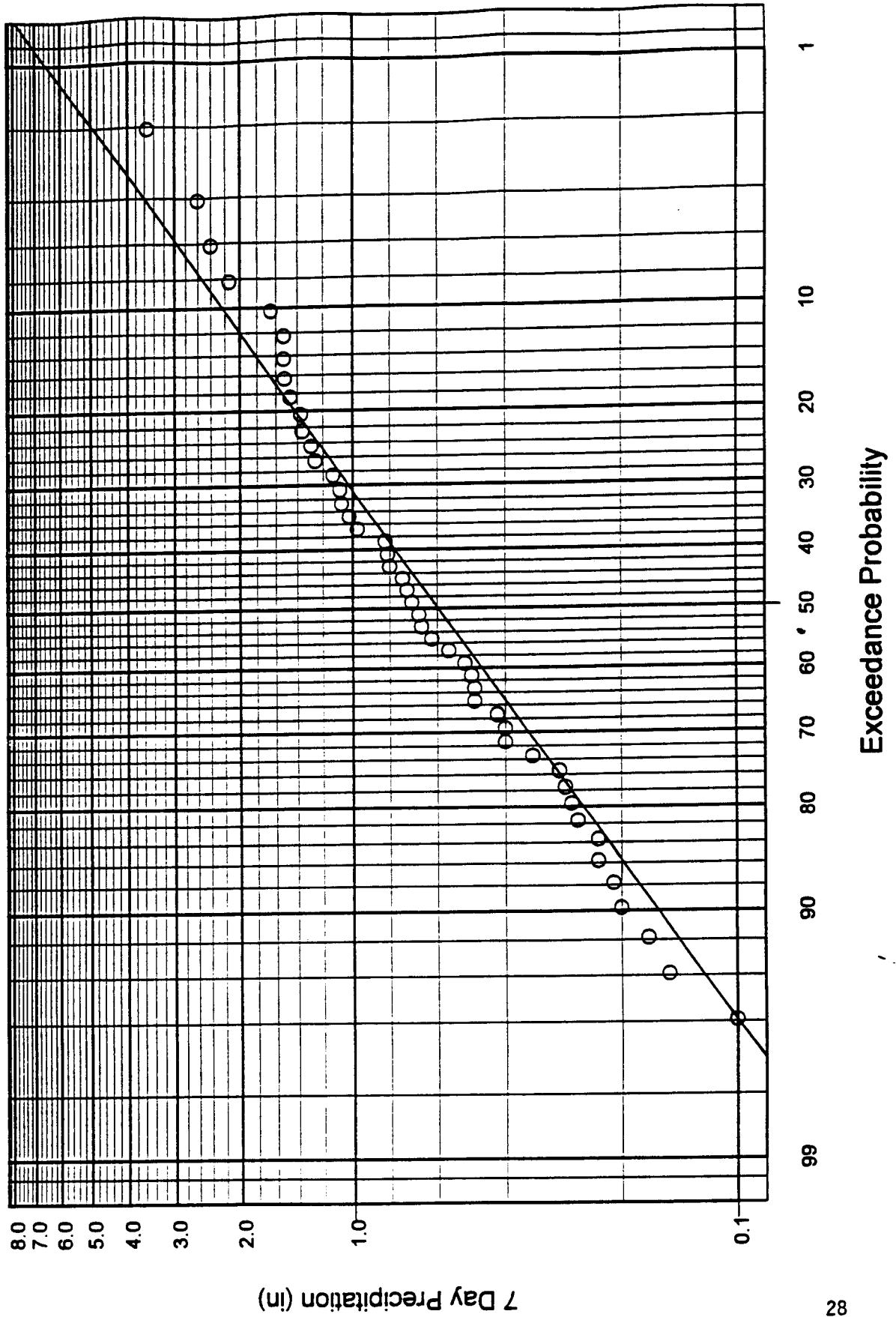


AR 041583

Annual Maximum 7 Day July Precipitation
 Seattle-Tacoma International Airport, 1948-1995

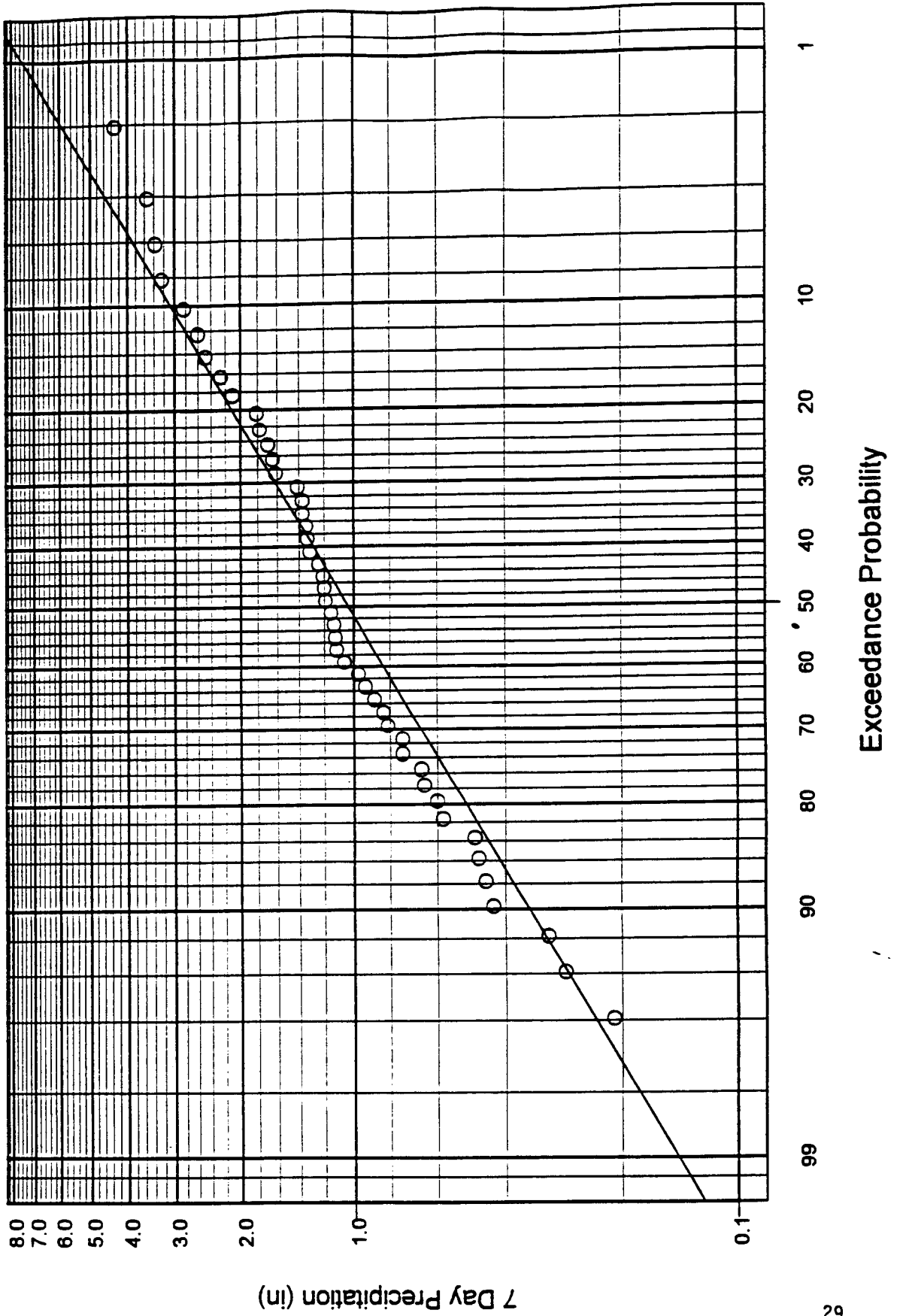


Annual Maximum 7 Day August Precipitation Seattle-Tacoma International Airport, 1948-1995

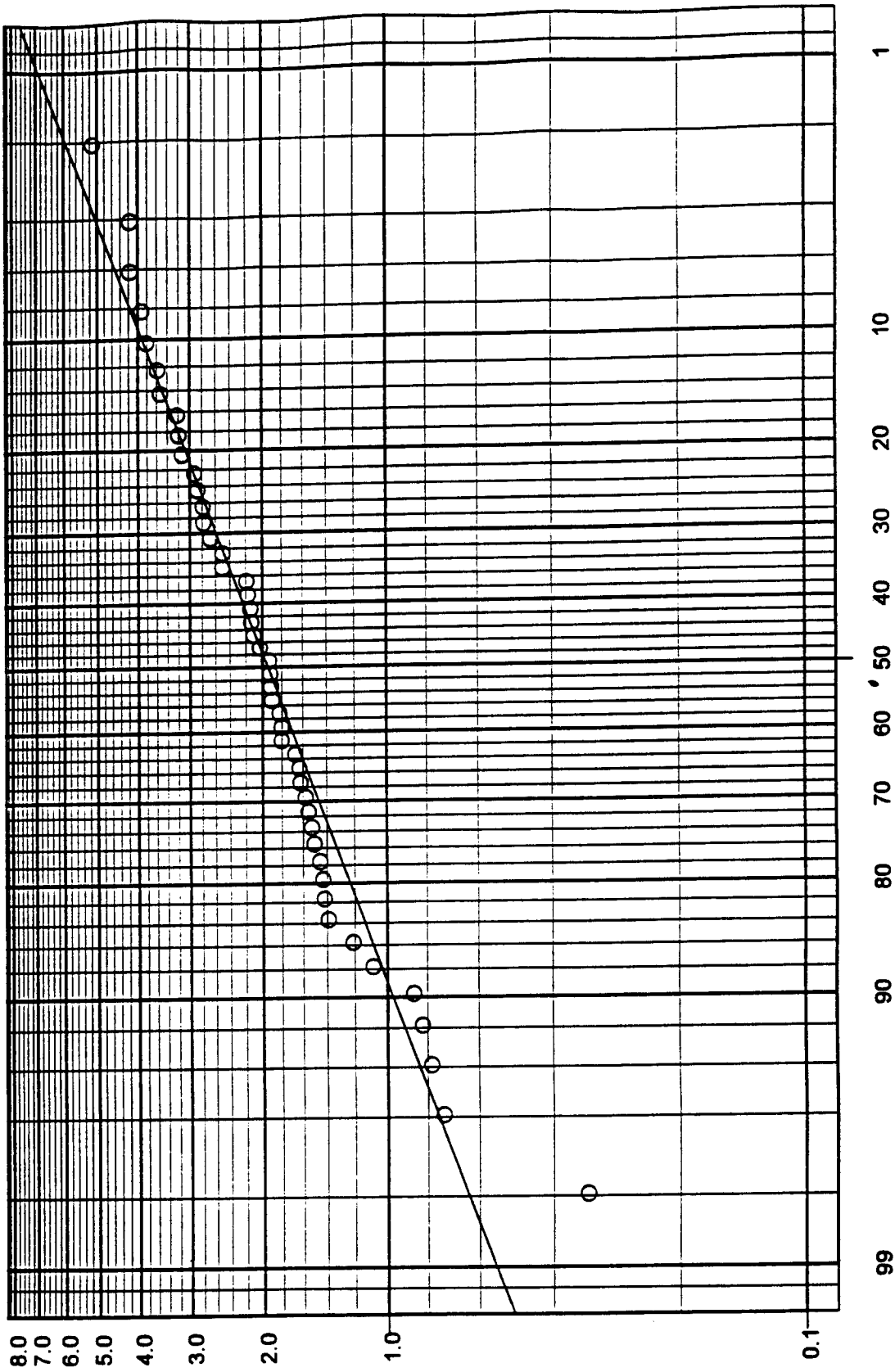


AR 041585

Annual Maximum 7 Day September Precipitation
 Seattle-Tacoma International Airport, 1948-1995



Annual Maximum 7 Day October Precipitation
 Seattle-Tacoma International Airport, 1948-1995

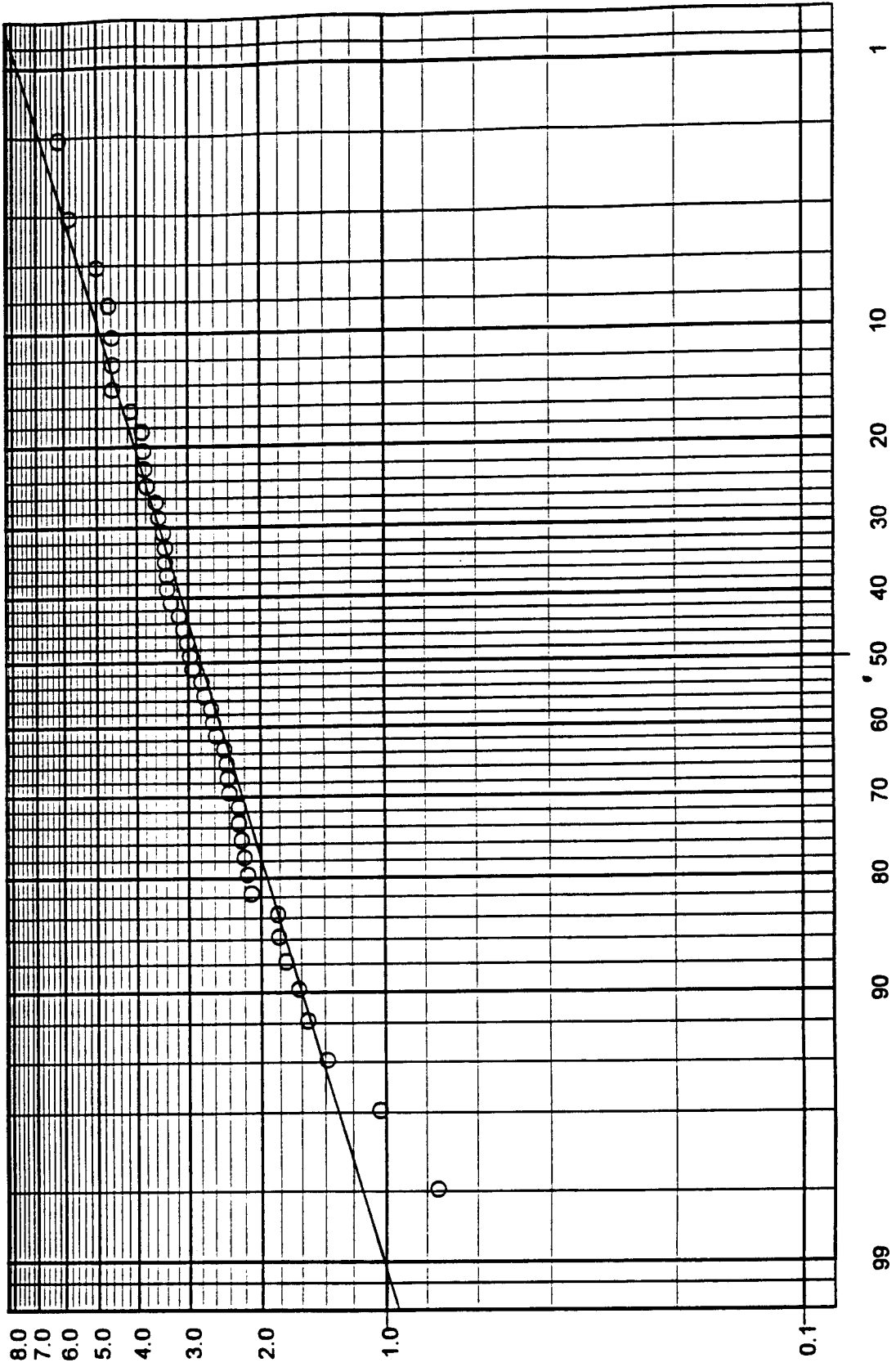


7 Day Precipitation (in)

Exceedance Probability

AR 041587

Annual Maximum 7 Day November Precipitation
 Seattle-Tacoma International Airport, 1948-1995

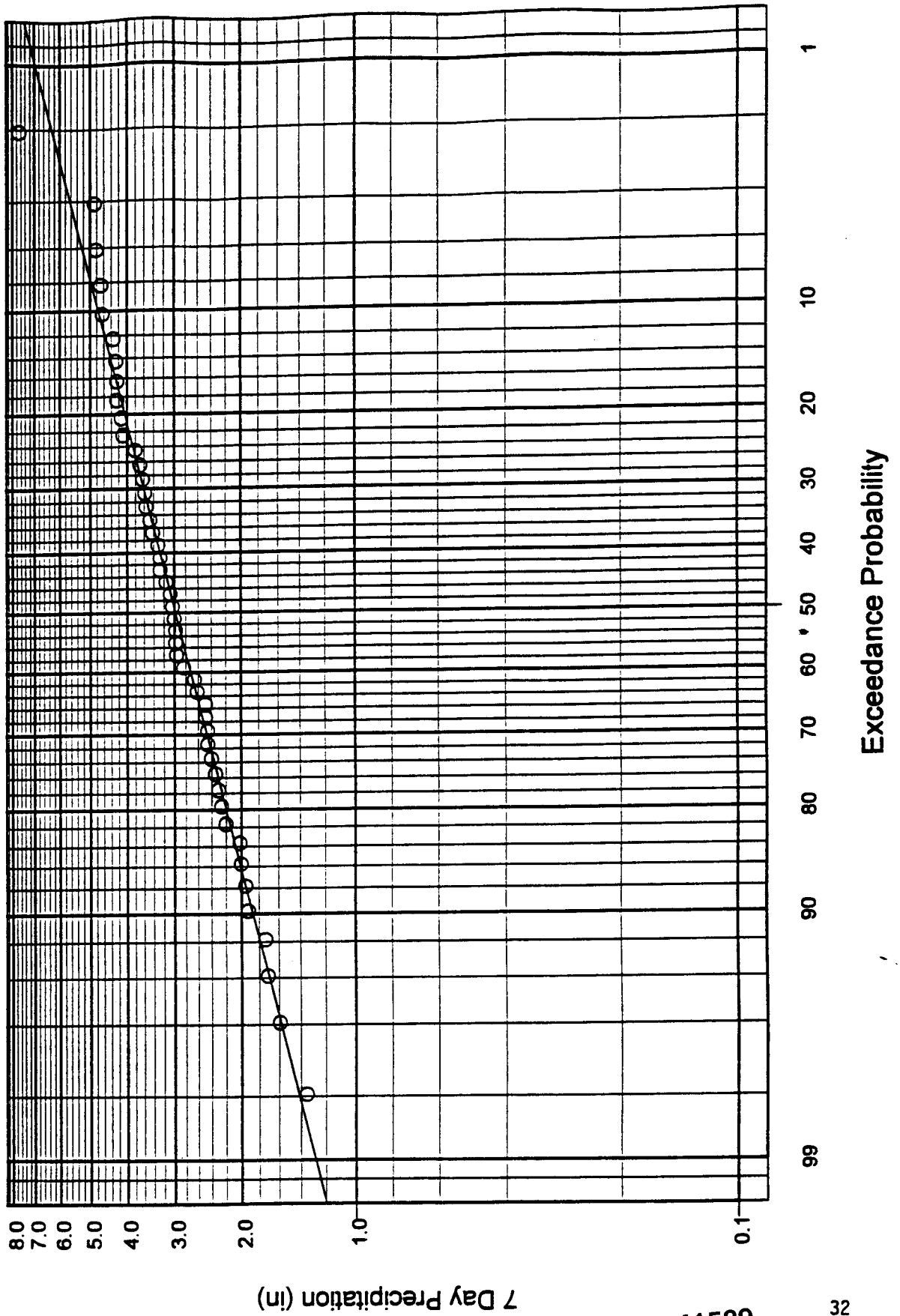


7 Day Precipitation (in)

AR 041588

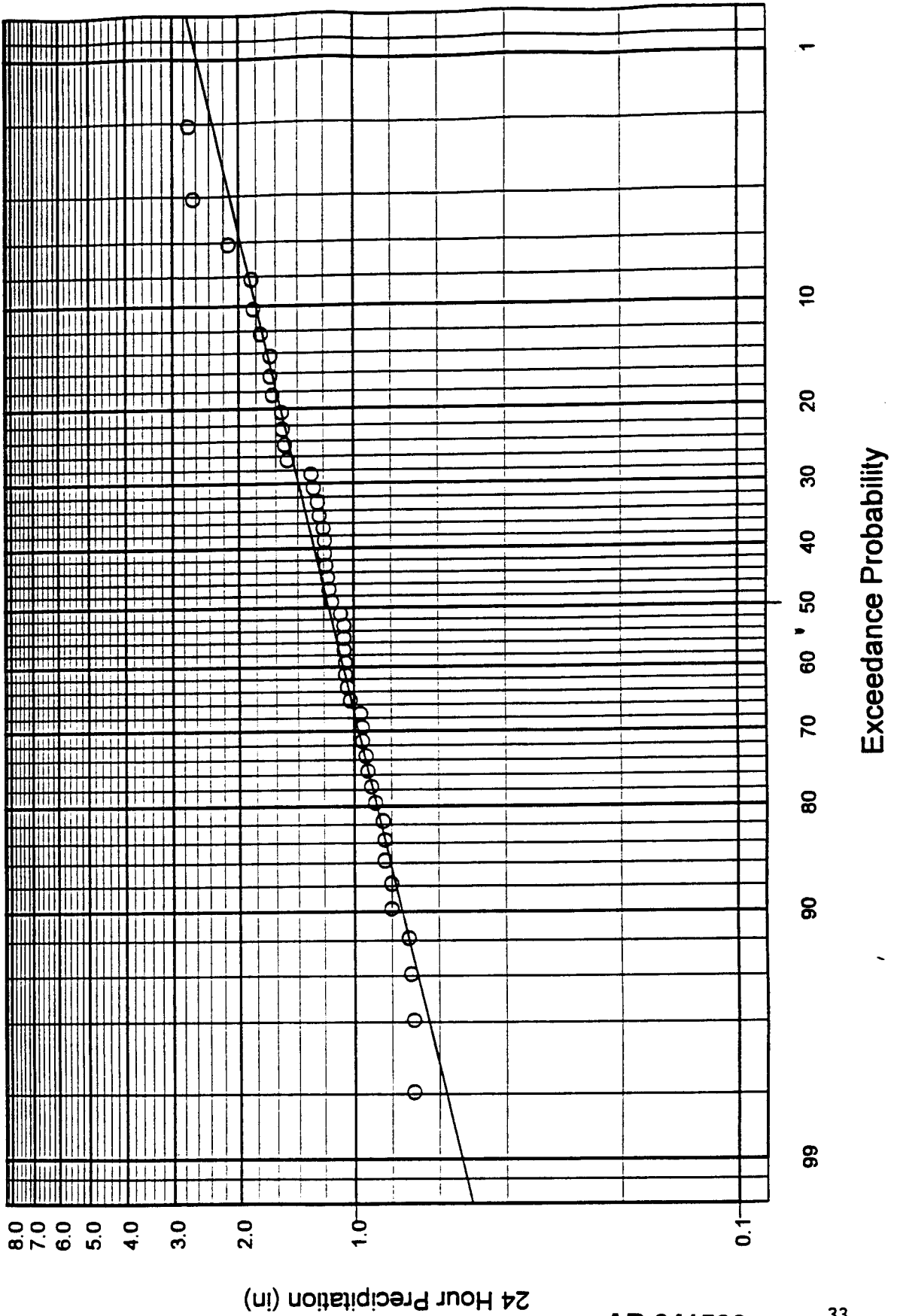
Exceedance Probability

Annual Maximum 7 Day December Precipitation Seattle-Tacoma International Airport, 1948-1995



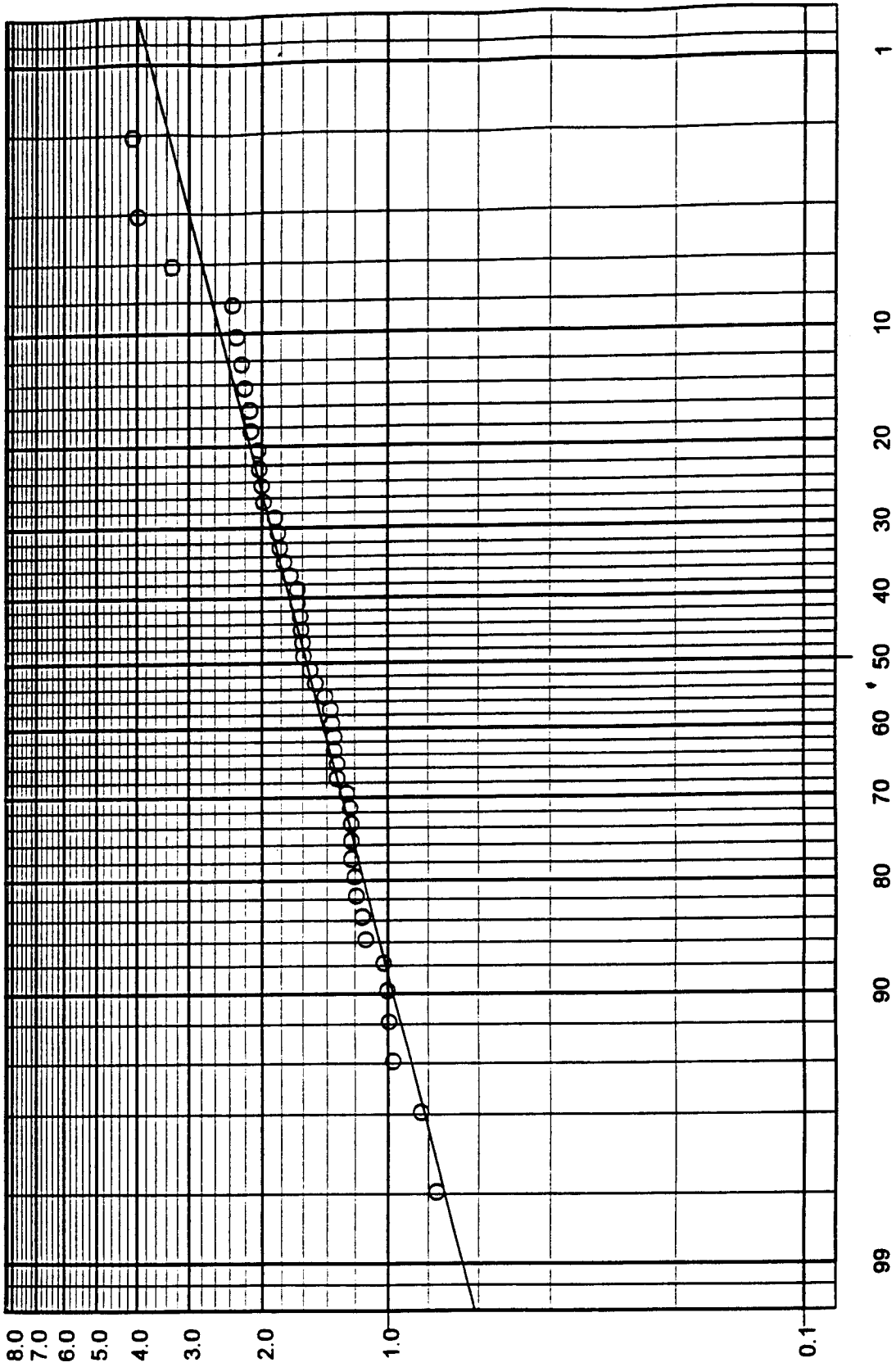
AR 041589

Annual Maximum 1 Day April-October Precipitation
 Seattle-Tacoma International Airport, 1948-1995



AR 041590

Annual Maximum 2 Day April-October Precipitation Seattle-Tacoma International Airport, 1948-1995

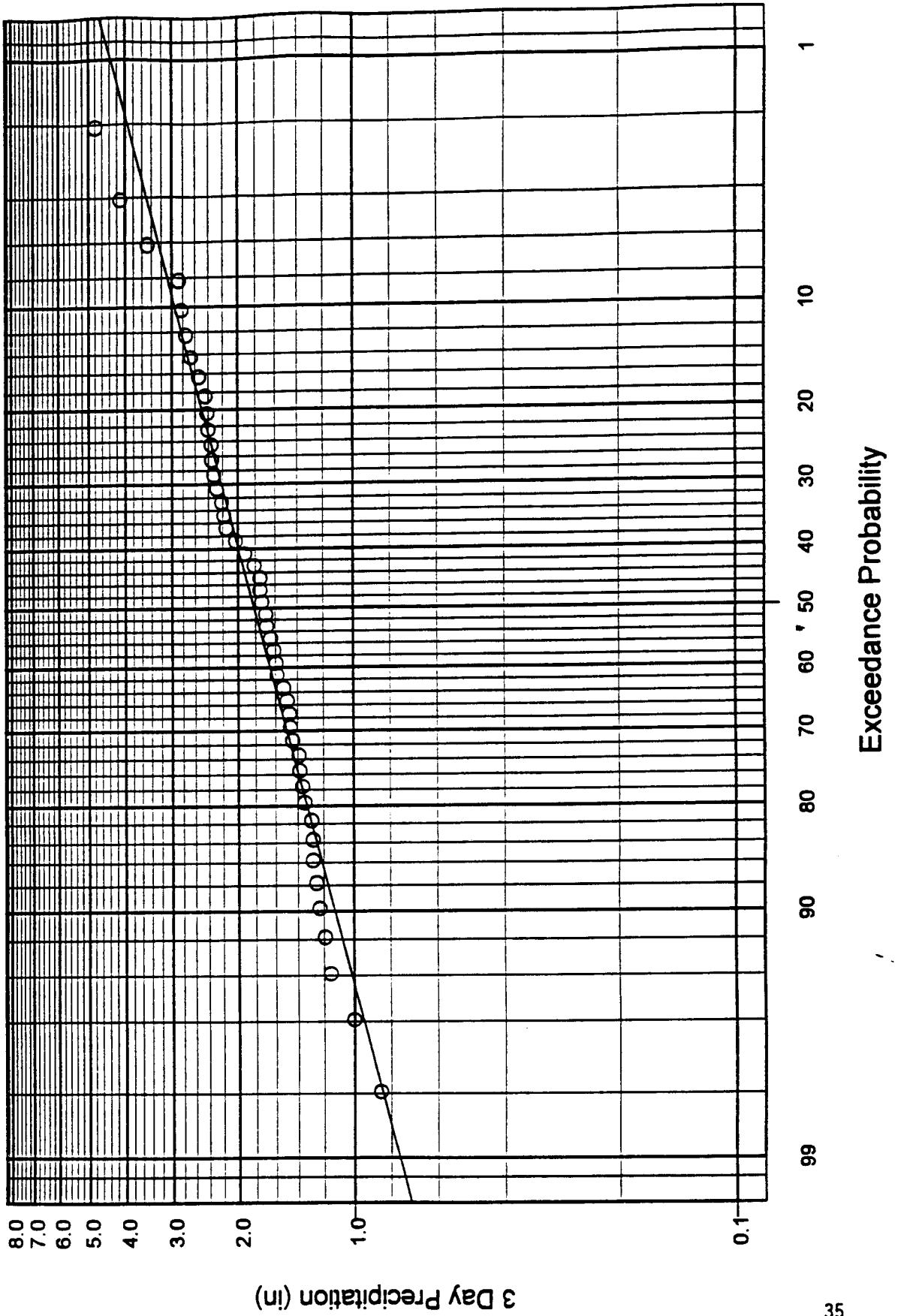


2 Day Precipitation (in)

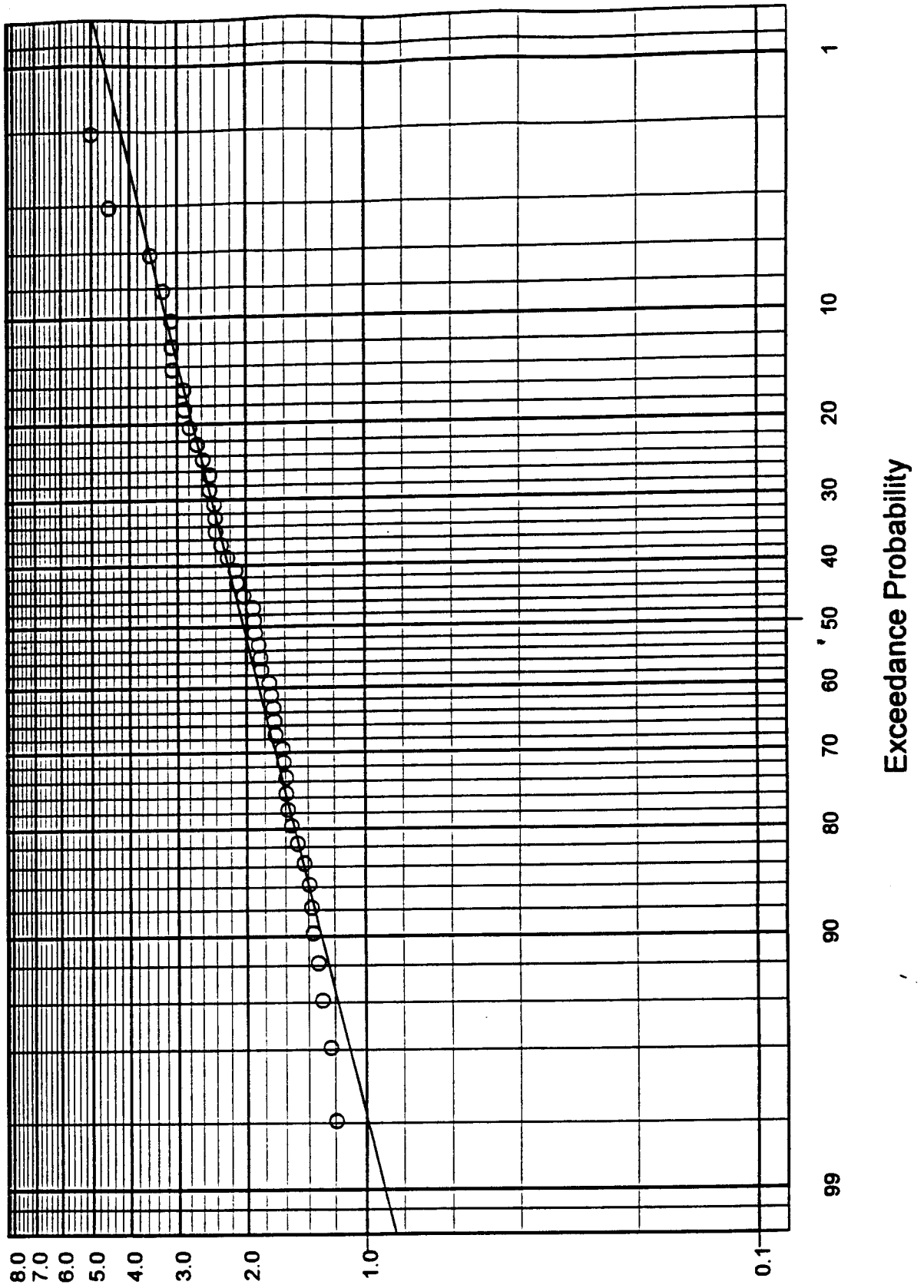
AR 041591

Exceedance Probability

Annual Maximum 3 Day April-October Precipitation
 Seattle-Tacoma International Airport, 1948-1995



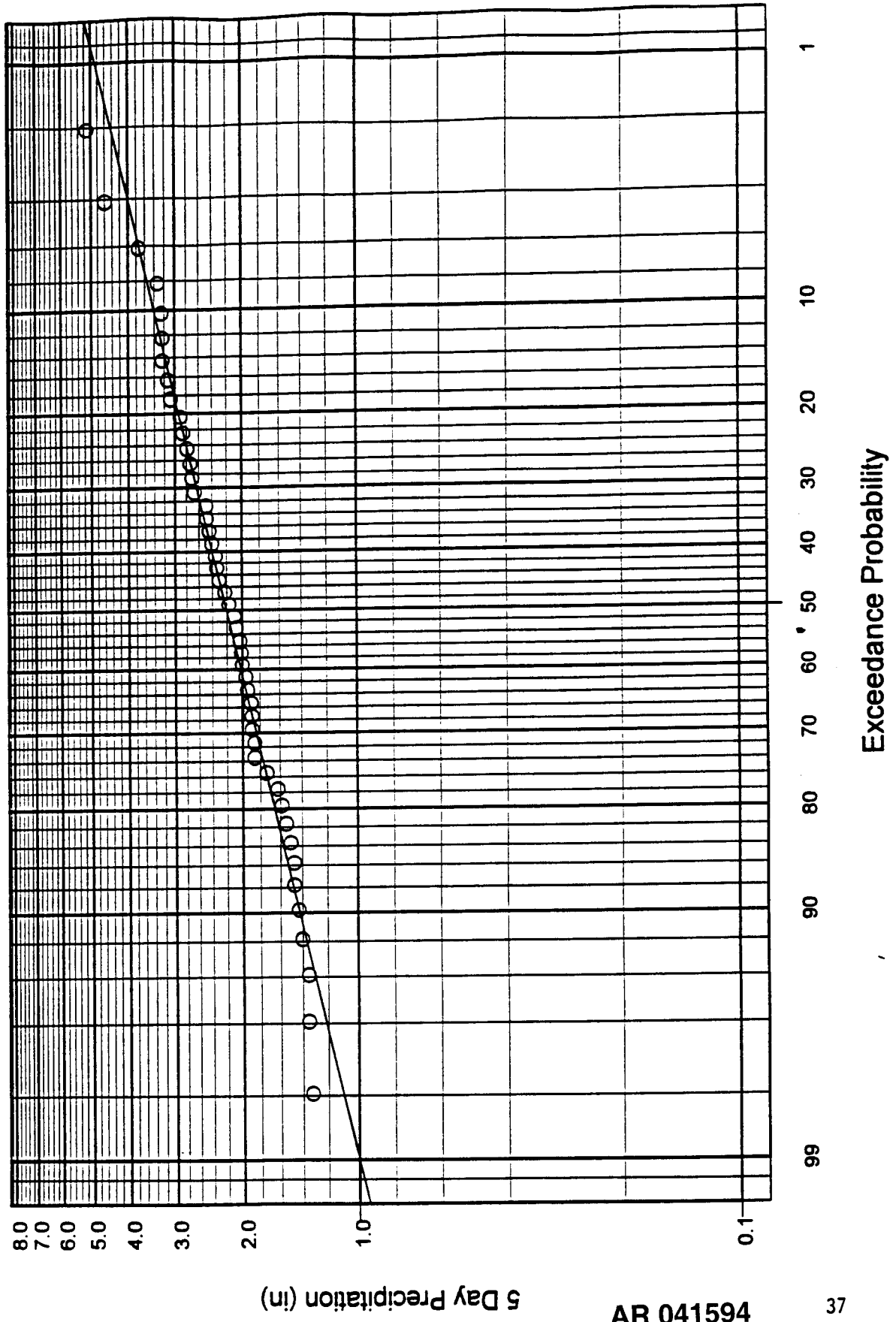
Annual Maximum 4 Day April-October Precipitation
 Seattle-Tacoma International Airport, 1948-1995



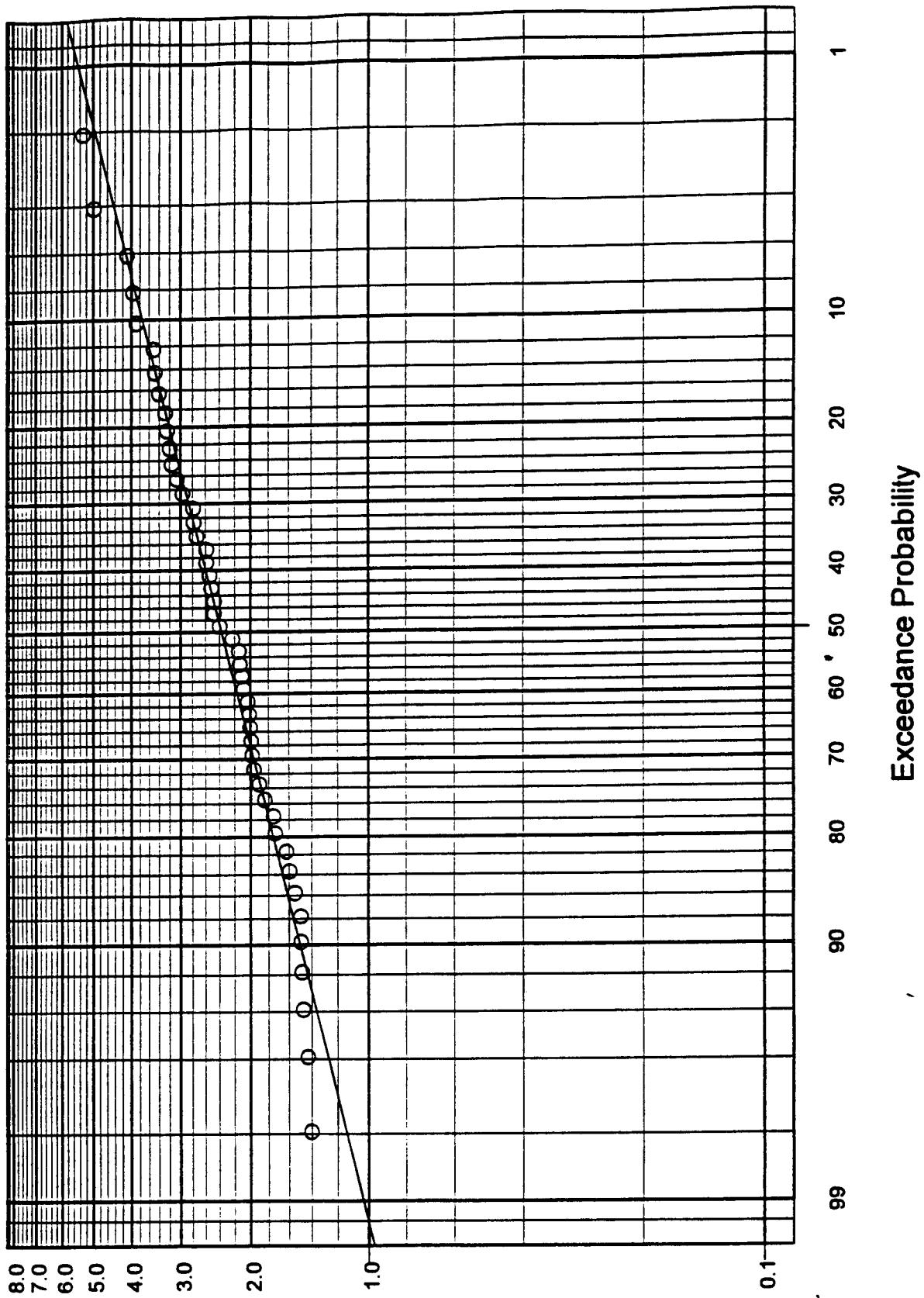
4 Day Precipitation (in)

AR 04159

Annual Maximum 5 Day April-October Precipitation
 Seattle-Tacoma International Airport, 1948-1995



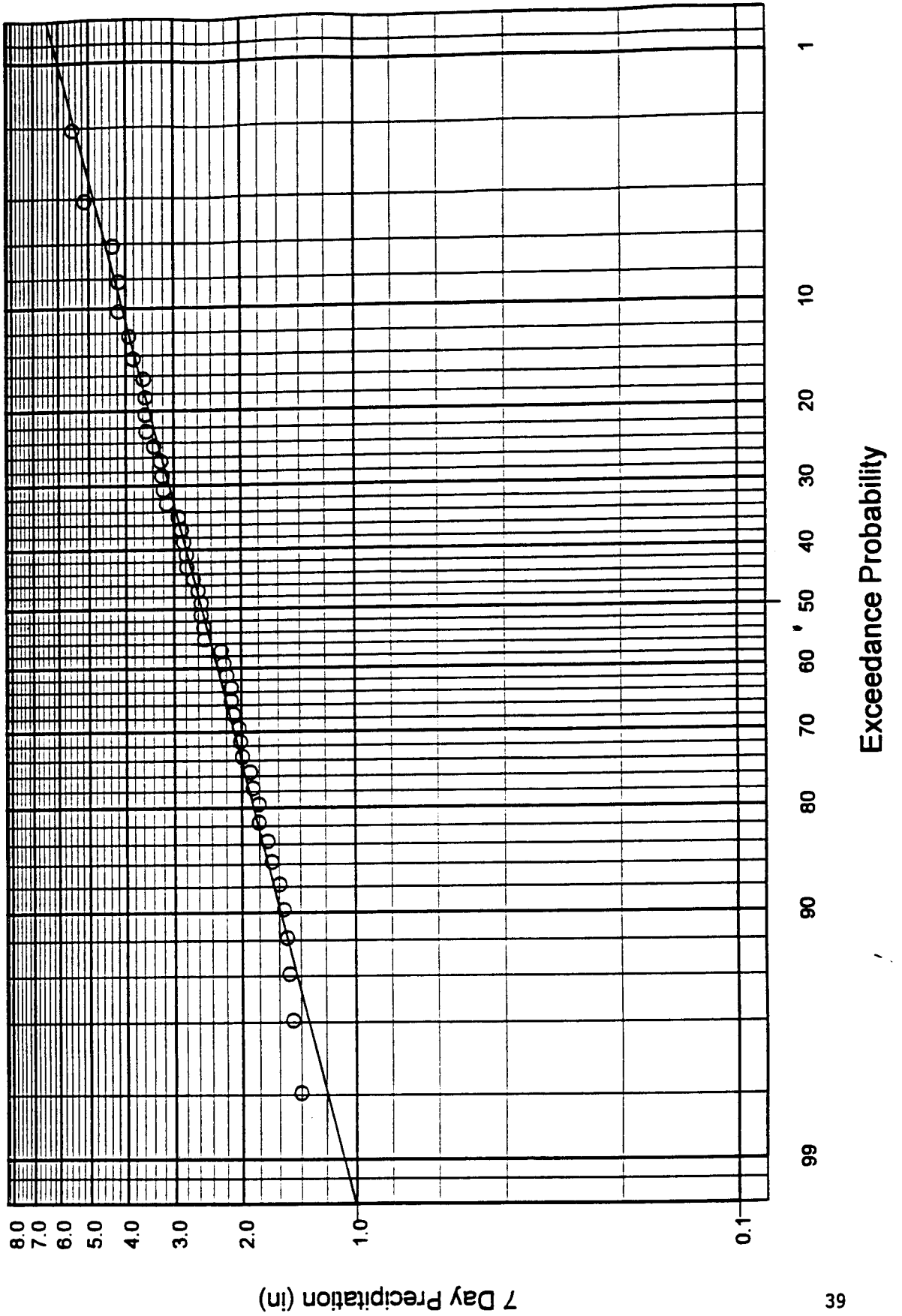
Annual Maximum 6 Day April-October Precipitation Seattle-Tacoma International Airport, 1948-1995



6 Day Precipitation (in)

AR 041595

Annual Maximum 7 Day April-October Precipitation Seattle-Tacoma International Airport, 1948-1995



AR 041596

APPENDIX A

**ESTIMATING THE EXCEEDANCE PROBABILITY
FOR A GIVEN RAINFALL**

AR 041597

To estimate the exceedance probability corresponding to a specific precipitation amount [Prob(rainfall \geq x) = p], the following formula, based upon standard linear regression, is applied:

$$z_p = m_1 * \log(x) + b_1,$$

where $\log(x)$ = common logarithm (base 10) of precipitation (in inches), z_p = the standard normal deviate (Z-value) corresponding to probability p such that Prob($Z \leq z_p$) = p, and m_1 and b_1 are the slope and intercept estimates, respectively, presented in the following tables.

To use this formula, first select the appropriate tables. For example, to find the exceedance probabilities for the month of July, use the page titled "One Month, Rainfall to Probability" and find the rows labeled "July" in the slope and intercept tables. However, to find the exceedance probabilities for the period from July to September, the table titled "Three Months, Rainfall to Probability" would be used, incorporating the appropriately labeled rows in the slope and intercept tables.

Each table contains multiple columns, reflecting the range of time intervals. To calculate the exceedance probabilities for daily precipitation, the columns labeled "1 Day" would be appropriate, whereas for weekly precipitation, the columns labeled "7 Days" would be chosen.

Once z_p has been calculated corresponding to a specific precipitation amount, it is necessary to estimate the corresponding probability. This can be done using a common statistical table for the normal (Gaussian) curve. For a more rough approximation, however, the table below lists some z-values and their corresponding probabilities.

Z-Value	Probability
-2.5758	0.005
-2.3263	0.010
-1.9600	0.025
-1.6449	0.050
-1.2816	0.100
-0.8416	0.200
-0.6745	0.250
0.0000	0.500

Z-value	Probability
0.0000	0.500
0.6745	0.750
0.8416	0.800
1.2816	0.900
1.6449	0.950
1.9600	0.975
2.3263	0.990
2.5758	0.995

Example: Given precipitation of 1.5 inches, for a 7-day period in November,
 $z = -5.2614 * \log(1.5) + 2.3511 = 1.4246$.

Prob($Z < 1.4246$) > 0.900, so there is a greater than 90% probability that there will be a 7-day period in November that exceeds 1.5 inches in precipitation.

One Month, Rainfall to Probability

Table A1a. Slope estimates (m_1) for one-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JAN	-4.5826	-4.6032	-4.4430	-4.6674	-4.5616	-5.5780	-5.5175
FEB	-4.0482	-4.2725	-4.2628	-4.3888	-4.4215	-4.5015	-4.8146
MAR	-4.6646	-4.9087	-5.2125	-5.2320	-5.4393	-5.9392	-5.6909
APR	-3.9487	-3.8605	-3.9441	-4.2592	-4.2420	-4.5674	-4.9235
MAY	-3.4722	-3.8620	-3.5910	-3.8401	-4.1820	-4.2330	-4.1489
JUN	-3.4150	-3.1962	-3.3552	-3.5164	-3.4994	-3.8182	-3.7927
JUL	-1.9365	-1.8280	-2.0203	-1.9713	-1.9793	-1.9627	-2.2100
AUG	-2.1000	-2.1466	-2.3746	-2.3419	-2.2404	-2.2421	-2.2433
SEP	-1.7902	-2.1816	-2.0659	-2.8057	-2.6966	-2.7884	-2.7095
OCT	-4.6071	-4.0548	-4.2726	-4.2381	-4.2812	-4.0624	-4.2379
NOV	-4.6035	-5.0335	-5.7277	-5.4653	-5.5096	-5.3501	-5.2614
DEC	-6.1427	-5.6767	-5.3292	-5.8718	-6.3945	-6.2982	-6.3247

Table A1b. Intercept estimates (b_1) for one-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JAN	0.1094	0.8506	1.1047	1.4687	1.6509	2.3984	2.5524
FEB	-0.2351	0.4132	0.7203	1.0140	1.2493	1.4379	1.7461
MAR	-0.6055	0.1242	0.5633	0.8358	1.1334	1.4808	1.5653
APR	-0.9640	-0.4595	-0.0912	0.1344	0.3325	0.5755	0.7626
MAY	-1.2266	-0.8856	-0.6827	-0.4805	-0.3462	-0.1944	-0.0617
JUN	-1.1237	-0.7843	-0.5893	-0.4084	-0.2989	-0.1638	-0.0715
JUL	-1.1722	-0.9451	-0.9160	-0.8421	-0.8022	-0.7503	-0.7576
AUG	-1.0777	-0.8877	-0.7718	-0.6879	-0.5879	-0.5490	-0.4999
SEP	-0.7803	-0.5405	-0.4009	-0.2791	-0.1871	-0.0395	0.0392
OCT	-0.4441	0.1796	0.5209	0.7259	0.8875	0.9609	1.2248
NOV	0.2078	0.9899	1.6209	1.8293	2.0782	2.1713	2.3511
DEC	0.3027	1.1552	1.4596	1.9606	2.5158	2.7857	3.0042

Two Months, Rainfall to Probability

Table A2a. Slope estimates (m_1) for two-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
DEC-JAN	-6.3776	-6.9724	-6.5883	-6.7259	-6.7757	-6.9468	-6.9719
JAN-FEB	-5.6428	-6.2507	-6.7557	-6.5388	-6.9822	-7.6892	-7.8567
FEB-MAR	-5.1213	-5.6402	-5.9612	-6.4865	-6.5006	-6.7848	-6.9922
MAR-APR	-5.4657	-5.5268	-6.3295	-6.2612	-6.2362	-6.2865	-6.2281
APR-MAY	-5.2088	-4.7141	-4.7267	-4.9334	-4.8598	-5.2756	-5.2732
MAY-JUN	-5.1536	-5.3853	-5.1292	-4.8962	-5.0330	-5.2126	-5.1180
JUN-JUL	-4.9258	-4.6556	-4.5476	-4.6884	-4.5484	-4.6181	-4.5302
JUL-AUG	-2.9540	-2.8567	-3.3690	-3.3558	-3.2341	-3.1808	-3.2322
AUG-SEP	-3.5958	-3.4662	-3.4837	-3.4129	-3.3073	-3.3633	-3.2943
SEP-OCT	-5.3594	-4.8890	-4.8122	-4.9772	-5.0481	-4.7116	-4.6790
OCT-NOV	-5.3288	-5.3556	-5.8251	-6.0190	-6.0867	-5.8968	-5.8452
NOV-DEC	-6.1448	-5.9233	-6.1834	-6.2294	-6.9006	-6.8204	-6.9794

Table A2b. Intercept estimates (b_1) for two-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
DEC-JAN	0.8756	2.0972	2.3998	2.8477	3.2025	3.6002	3.8378
JAN-FEB	0.7132	1.6973	2.3405	2.5906	3.1422	3.8270	4.1752
FEB-MAR	0.1744	0.9651	1.4532	1.9630	2.2665	2.5942	2.9209
MAR-APR	-0.3206	0.4940	1.0888	1.3468	1.6147	1.8385	2.0058
APR-MAY	-0.7857	-0.1549	0.2216	0.4613	0.6456	0.9184	1.0528
MAY-JUN	-0.9582	-0.4613	-0.1992	0.0350	0.1918	0.3648	0.4902
JUN-JUL	-1.1766	-0.6691	-0.4755	-0.2535	-0.1316	0.0227	0.1160
JUL-AUG	-0.9975	-0.7015	-0.5961	-0.4772	-0.3481	-0.2725	-0.2160
AUG-SEP	-0.6945	-0.2869	-0.0525	0.0594	0.1813	0.2911	0.3752
SEP-OCT	-0.2084	0.5122	0.8741	1.1588	1.3596	1.4181	1.5971
OCT-NOV	0.4620	1.2681	1.8280	2.2453	2.5078	2.6091	2.7991
NOV-DEC	0.8062	1.6523	2.2252	2.5923	3.2085	3.4388	3.7904

Three Months, Rainfall to Probability

Table A3a. Slope estimates (m_1) for three-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
NOV-JAN	-6.3400	-7.1802	-7.3573	-7.5043	-7.8139	-7.8708	-8.0940
DEC-FEB	-6.5109	-7.0300	-7.2466	-7.1896	-7.7307	-8.2233	-8.6923
JAN-MAR	-5.7688	-6.8526	-7.3139	-7.1814	-7.2287	-7.8002	-7.9561
FEB-APR	-5.0359	-5.3903	-5.8460	-6.3017	-6.3877	-6.7292	-6.8519
MAR-MAY	-5.5391	-5.6418	-6.2547	-6.2346	-6.2073	-6.2858	-6.2882
APR-JUN	-5.6454	-5.4816	-5.6841	-5.8896	-5.6244	-6.0883	-6.2531
MAY-JUL	-6.0688	-5.7992	-5.5687	-5.2268	-5.2699	-5.4258	-5.3244
JUN-AUG	-5.1320	-4.8218	-4.9681	-5.4515	-5.4602	-5.7228	-5.8128
JUL-SEP	-4.9411	-4.5489	-4.5966	-4.5478	-4.3826	-4.2409	-4.1399
AUG-OCT	-5.4777	-5.1788	-5.1497	-5.1546	-5.1919	-4.8071	-4.7606
SEP-NOV	-5.6961	-5.6047	-6.1299	-6.5130	-6.5874	-6.4395	-6.3380
OCT-DEC	-6.6385	-6.2112	-6.5848	-6.9303	-7.3283	-7.1788	-7.4265

Table A3b. Intercept estimates (b_1) for three-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
NOV-JAN	1.1295	2.4360	3.0190	3.5411	4.0515	4.3941	4.8074
DEC-FEB	1.1746	2.3356	2.8951	3.2578	3.9029	4.5227	5.0728
JAN-MAR	0.8606	1.8988	2.6182	2.9317	3.3032	3.9097	4.2445
FEB-APR	0.2749	1.0404	1.5478	2.0029	2.3284	2.6886	2.9478
MAR-MAY	-0.1934	0.5695	1.1285	1.3964	1.6523	1.8710	2.0780
APR-JUN	-0.4924	0.1814	0.5801	0.8532	1.0221	1.3043	1.4759
MAY-JUL	-0.9335	-0.3507	-0.1164	0.1085	0.2609	0.4518	0.5789
JUN-AUG	-0.8334	-0.3093	-0.0839	0.1791	0.3902	0.5964	0.7353
JUL-SEP	-0.7248	-0.1598	0.1326	0.2790	0.4361	0.5463	0.6458
AUG-OCT	-0.0367	0.6603	1.0487	1.3061	1.4982	1.5207	1.6816
SEP-NOV	0.6047	1.3989	2.0446	2.5663	2.8397	2.9899	3.1723
OCT-DEC	0.9933	1.8905	2.5142	3.0483	3.5346	3.7425	4.1577

Four Months, Rainfall to Probability

Table A4a. Slope estimates (m_1) for four-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
OCT-JAN	-6.5611	-7.0398	-7.5485	-8.0904	-8.1017	-8.1761	-8.4995
NOV-FEB	-6.3310	-6.9690	-7.3232	-7.3168	-7.9897	-8.6951	-9.3527
DEC-MAR	-6.6957	-7.3116	-7.9584	-7.8495	-7.9662	-8.2388	-8.6977
JAN-APR	-5.7047	-6.4031	-7.0067	-6.9715	-7.0086	-7.5670	-7.7034
FEB-MAY	-5.2008	-5.5314	-5.8758	-6.2962	-6.4008	-6.8029	-6.9648
MAR-JUN	-5.5034	-5.7543	-6.8857	-7.0321	-7.0996	-6.9968	-6.9232
APR-JUL	-6.5337	-6.0018	-6.0022	-6.1317	-5.7914	-6.1818	-6.3252
MAY-AUG	-6.0174	-5.7117	-5.7709	-5.5858	-5.8286	-6.0006	-6.0746
JUN-SEP	-5.7161	-5.3279	-5.0870	-5.3457	-5.1786	-5.2189	-5.1752
JUL-OCT	-5.5498	-5.1834	-5.1982	-5.2074	-5.2646	-4.8750	-4.8433
AUG-NOV	-5.7350	-5.7776	-6.3015	-6.5195	-6.6304	-6.4644	-6.3794
SEP-DEC	-6.8777	-6.3234	-6.7418	-7.2237	-7.5175	-7.4110	-7.7346

Table A4b. Intercept estimates (b_1) for four-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
OCT-JAN	1.2425	2.4581	3.1854	3.9114	4.2710	4.6328	5.1219
NOV-FEB	1.3191	2.5203	3.1580	3.5680	4.2705	5.0234	5.7449
DEC-MAR	1.2907	2.4787	3.2535	3.6183	4.0475	4.5386	5.0794
JAN-APR	0.9159	1.9067	2.5796	2.9004	3.2442	3.8319	4.1420
FEB-MAY	0.3521	1.1011	1.5738	2.0133	2.3434	2.7375	3.0168
MAR-JUN	-0.0276	0.7373	1.3943	1.7338	2.0552	2.2128	2.3778
APR-JUL	-0.4610	0.2884	0.6429	0.9078	1.0687	1.3339	1.5001
MAY-AUG	-0.6706	-0.0683	0.1896	0.4192	0.6599	0.8560	1.0131
JUN-SEP	-0.4823	0.1404	0.4272	0.6723	0.8548	1.0203	1.1614
JUL-OCT	-0.0270	0.6786	1.0763	1.3335	1.5326	1.5546	1.7228
AUG-NOV	0.6408	1.4701	2.1293	2.5938	2.8819	3.0164	3.2117
SEP-DEC	1.1096	1.9587	2.6280	3.2371	3.6681	3.9199	4.3907

Five Months, Rainfall to Probability

Table A5a. Slope estimates (m_1) for five-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
SEP-JAN	-6.9502	-7.2717	-7.9161	-8.6560	-8.3289	-8.4583	-8.9843
OCT-FEB	-6.4854	-6.8426	-7.1863	-7.7423	-7.9073	-8.5650	-9.2628
NOV-MAR	-6.4018	-7.2261	-8.0313	-7.9717	-8.1005	-8.6951	-9.3527
DEC-APR	-6.5240	-7.0079	-7.5522	-7.5577	-7.7423	-8.1026	-8.5029
JAN-MAY	-5.9109	-6.6306	-7.1179	-7.0314	-7.0984	-7.6733	-7.8201
FEB-JUN	-5.4712	-5.7463	-6.3127	-6.9822	-7.0942	-7.2894	-7.4898
MAR-JUL	-5.6921	-5.7241	-6.8857	-7.0321	-7.0996	-6.9968	-6.9232
APR-AUG	-6.2806	-6.0120	-6.3580	-6.5302	-6.5019	-6.5587	-6.6986
MAY-SEP	-5.9361	-5.6857	-5.6216	-5.5689	-5.4948	-5.6977	-5.7308
JUN-OCT	-5.7283	-5.1389	-5.3425	-5.8853	-5.9997	-5.6302	-5.5367
JUL-NOV	-5.7350	-5.7776	-6.3015	-6.5195	-6.6304	-6.4644	-6.3794
AUG-DEC	-7.0287	-6.5078	-6.9772	-7.2237	-7.5175	-7.4110	-7.7346

Table A5b. Intercept estimates (b_1) for five-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
SEP-JAN	1.3810	2.5730	3.3957	4.2392	4.4116	4.8217	5.4512
OCT-FEB	1.4117	2.5314	3.1390	3.8385	4.2503	4.9658	5.7029
NOV-MAR	1.3986	2.6491	3.5181	3.9291	4.3356	5.0234	5.7449
DEC-APR	1.3108	2.4289	3.1363	3.5295	3.9750	4.5063	5.0020
JAN-MAY	0.9978	2.0000	2.6370	2.9361	3.2972	3.8944	4.2129
FEB-JUN	0.4674	1.2226	1.7680	2.3205	2.6899	2.9925	3.2954
MAR-JUL	-0.0018	0.7435	1.3943	1.7338	2.0552	2.2128	2.3778
APR-AUG	-0.2852	0.4492	0.8606	1.1458	1.4076	1.5927	1.7567
MAY-SEP	-0.3943	0.2369	0.5682	0.7746	0.9805	1.2107	1.3995
JUN-OCT	0.0620	0.7113	1.1541	1.6048	1.8533	1.9080	2.0679
JUL-NOV	0.6408	1.4701	2.1293	2.5938	2.8819	3.0164	3.2117
AUG-DEC	1.1473	2.0297	2.7347	3.2371	3.6681	3.9199	4.3907

Six Months, Rainfall to Probability

Table A6a. Slope estimates (m_1) for six-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
AUG-JAN	-7.1337	-7.5537	-8.2514	-8.6560	-8.3289	-8.4583	-8.9843
SEP-FEB	-6.6408	-6.9219	-7.4737	-8.0822	-8.0861	-8.8481	-9.4649
OCT-MAR	-6.4049	-7.0421	-7.8713	-7.8142	-8.0158	-8.5650	-9.2628
NOV-APR	-6.3933	-7.1445	-7.8438	-7.8670	-8.0182	-8.6095	-9.2526
DEC-MAY	-6.8103	-7.2125	-7.5522	-7.5577	-7.7423	-8.2070	-8.6876
JAN-JUN	-6.2560	-6.8370	-7.2963	-7.2916	-7.4420	-8.0146	-8.1999
FEB-JUL	-5.4837	-5.7463	-6.3127	-6.9822	-7.0942	-7.2894	-7.4898
MAR-AUG	-5.7162	-5.7165	-6.7364	-6.8397	-7.0765	-6.8975	-6.8498
APR-SEP	-6.1284	-5.9362	-6.4744	-6.7698	-6.6671	-6.7189	-6.8048
MAY-OCT	-6.0053	-5.6366	-5.9439	-6.0859	-6.2283	-5.7588	-5.6487
JUN-NOV	-5.7107	-5.7501	-6.3060	-6.5195	-6.6304	-6.4644	-6.3794
JUL-DEC	-7.0287	-6.5078	-6.9772	-7.2237	-7.5175	-7.4110	-7.7346

Table A6b. Intercept estimates (b_1) for six-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
AUG-JAN	1.4313	2.6892	3.5575	4.2392	4.4116	4.8217	5.4512
SEP-FEB	1.4737	2.5810	3.3099	4.0453	4.3625	5.1555	5.8447
OCT-MAR	1.4474	2.6367	3.4918	3.8816	4.3145	4.9658	5.7029
NOV-APR	1.4091	2.6254	3.4490	3.8863	4.2990	4.9812	5.6917
DEC-MAY	1.3907	2.5122	3.1363	3.5295	3.9750	4.5698	5.1199
JAN-JUN	1.1094	2.1060	2.7279	3.0687	3.4851	4.0909	4.4408
FEB-JUL	0.4709	1.2226	1.7680	2.3205	2.6899	2.9925	3.2954
MAR-AUG	0.0963	0.8200	1.4157	1.7527	2.1249	2.2507	2.4214
APR-SEP	-0.0854	0.6113	1.1394	1.4706	1.7059	1.9230	2.1180
MAY-OCT	0.1439	0.8543	1.3479	1.6902	1.9493	1.9713	2.1282
JUN-NOV	0.6610	1.4752	2.1411	2.5938	2.8819	3.0164	3.2117
JUL-DEC	1.1473	2.0297	2.7347	3.2371	3.6681	3.9199	4.3907

Seven Months, Rainfall to Probability

Table A7a. Slope estimates (m_1) for seven-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUL-JAN	-7.1337	-7.5537	-8.2514	-8.6560	-8.3289	-8.4583	-8.9843
AUG-FEB	-6.7949	-7.1769	-7.6182	-8.0822	-8.0861	-8.8481	-9.4649
SEP-MAR	-6.5670	-7.1328	-8.2276	-8.1609	-8.1996	-8.8481	-9.4649
OCT-APR	-6.4014	-6.9694	-7.6933	-7.7146	-7.9352	-8.4839	-9.1664
NOV-MAY	-6.6958	-7.3572	-7.8438	-7.8670	-8.0182	-8.7274	-9.4718
DEC-JUN	-7.0363	-7.2999	-7.6223	-7.6500	-7.7843	-8.2419	-8.7090
JAN-JUL	-6.2866	-6.8370	-7.2963	-7.2916	-7.4420	-8.0146	-8.1999
FEB-AUG	-5.5248	-5.8606	-6.3436	-7.0318	-7.3489	-7.3881	-7.5540
MAR-SEP	-5.6399	-5.7769	-6.8485	-6.8929	-7.1051	-6.9496	-6.9882
APR-OCT	-6.7282	-6.1840	-6.1174	-6.5384	-6.7598	-6.4271	-6.2360
MAY-NOV	-5.8516	-5.8806	-6.3171	-6.5195	-6.6304	-6.5012	-6.4686
JUN-DEC	-7.1030	-6.5156	-7.0046	-7.2237	-7.5175	-7.4110	-7.7346

Table A7b. Intercept estimates (b_1) for seven-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUL-JAN	1.4313	2.6892	3.5575	4.2392	4.4116	4.8217	5.4512
AUG-FEB	1.5194	2.6917	3.3821	4.0453	4.3625	5.1555	5.8447
SEP-MAR	1.5119	2.6915	3.6999	4.0926	4.4296	5.1555	5.8447
OCT-APR	1.4590	2.6156	3.4256	3.8408	4.2785	4.9259	5.6519
NOV-MAY	1.4977	2.7162	3.4490	3.8863	4.2990	5.0552	5.8366
DEC-JUN	1.4735	2.5614	3.1738	3.5810	4.0001	4.5919	5.1339
JAN-JUL	1.1176	2.1060	2.7279	3.0687	3.4851	4.0909	4.4408
FEB-AUG	0.5057	1.2908	1.8130	2.3877	2.8475	3.0763	3.3667
MAR-SEP	0.1857	0.9287	1.5820	1.8945	2.2539	2.4160	2.6495
APR-OCT	0.4390	1.2021	1.5881	2.0219	2.3244	2.4098	2.5300
MAY-NOV	0.7099	1.5316	2.1462	2.5938	2.8819	3.0369	3.2650
JUN-DEC	1.1822	2.0438	2.7536	3.2371	3.6681	3.9199	4.3907

Eight Months, Rainfall to Probability

Table A8a. Slope estimates (m_1) for eight-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUN-JAN	-7.1458	-7.5661	-8.3302	-8.6560	-8.3289	-8.4583	-8.9843
JUL-FEB	-6.7949	-7.1769	-7.6182	-8.0822	-8.0861	-8.8481	-9.4649
AUG-MAR	-6.7176	-7.2141	-8.2276	-8.1809	-8.1996	-8.8481	-9.4649
SEP-APR	-6.5659	-7.0581	-8.0333	-8.0524	-8.1153	-8.7616	-9.3644
OCT-MAY	-6.5610	-7.1717	-7.6933	-7.7146	-7.9352	-8.5984	-9.3815
NOV-JUN	-6.8158	-7.3904	-7.8438	-7.8670	-8.0182	-8.7274	-9.4718
DEC-JUL	-7.0363	-7.2999	-7.6223	-7.6500	-7.7843	-8.2419	-8.7090
JAN-AUG	-6.4028	-7.1325	-7.4881	-7.4733	-7.7393	-8.4135	-8.5344
FEB-SEP	-5.6245	-6.0098	-6.3068	-6.8994	-7.2200	-7.2687	-7.3607
MAR-OCT	-6.5114	-6.5437	-6.7416	-7.0021	-7.3088	-7.0809	-7.0754
APR-NOV	-6.2315	-6.1373	-6.4771	-7.0546	-7.0725	-6.9659	-6.9290
MAY-DEC	-7.0523	-6.5604	-7.0046	-7.2237	-7.5175	-7.4110	-7.7346

Table A8b. Intercept estimates (b_1) for eight-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUN-JAN	1.4349	2.6981	3.6013	4.2392	4.4116	4.8217	5.4512
JUL-FEB	1.5194	2.6917	3.3821	4.0453	4.3625	5.1555	5.8447
AUG-MAR	1.5580	2.7270	3.6999	4.0926	4.4296	5.1555	5.8447
SEP-APR	1.5243	2.6695	3.6258	4.0472	4.3916	5.1124	5.7911
OCT-MAY	1.5079	2.7038	3.4256	3.8408	4.2785	4.9981	5.7944
NOV-JUN	1.5491	2.7375	3.4490	3.8863	4.2990	5.0552	5.8366
DEC-JUL	1.4735	2.5614	3.1738	3.5810	4.0001	4.5919	5.1339
JAN-AUG	1.1631	2.2338	2.8331	3.1884	3.6662	4.3352	4.6617
FEB-SEP	0.5931	1.4002	1.8779	2.4048	2.8489	3.0885	3.3506
MAR-OCT	0.6798	1.5534	1.9783	2.3981	2.7652	2.9191	3.1632
APR-NOV	0.8879	1.7327	2.3191	2.9399	3.1890	3.3624	3.5988
MAY-DEC	1.1847	2.0669	2.7536	3.2371	3.6681	3.9199	4.3907

Nine Months, Rainfall to Probability

Table A9a. Slope estimates (m_1) for nine-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAY-JAN	-7.1117	-7.6283	-8.3302	-8.6560	-8.3289	-8.4583	-8.9843
JUN-FEB	-6.8059	-7.1930	-7.6871	-8.0822	-8.0861	-8.8481	-9.4649
JUL-MAR	-6.7176	-7.2141	-8.2276	-8.1609	-8.1996	-8.8481	-9.4649
AUG-APR	-6.7165	-7.1378	-8.0333	-8.0524	-8.1153	-8.7616	-9.3644
SEP-MAY	-6.7339	-7.2657	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
OCT-JUN	-6.6806	-7.2106	-7.6933	-7.7146	-7.9352	-8.5984	-9.3815
NOV-JUL	-6.8158	-7.3904	-7.8438	-7.8670	-8.0182	-8.7274	-9.4718
DEC-AUG	-7.2774	-7.7782	-7.9780	-8.0464	-8.3049	-8.8367	-9.3102
JAN-SEP	-6.6417	-7.4389	-7.8067	-7.6963	-7.9063	-8.5782	-8.6508
FEB-OCT	-6.2747	-6.1008	-6.3844	-6.7462	-7.3703	-7.3328	-7.7937
MAR-NOV	-6.4546	-6.5846	-7.0498	-7.4690	-7.7650	-7.5638	-7.5127
APR-DEC	-6.8382	-6.4926	-6.8606	-7.2846	-7.5511	-7.4949	-7.9923

Table A9b. Intercept estimates (b_1) for nine-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAY-JAN	1.4356	2.7263	3.6013	4.2392	4.4116	4.8217	5.4512
JUN-FEB	1.5230	2.7019	3.4218	4.0453	4.3625	5.1555	5.8447
JUL-MAR	1.5580	2.7270	3.6999	4.0926	4.4296	5.1555	5.8447
AUG-APR	1.5707	2.7044	3.6258	4.0472	4.3916	5.1124	5.7911
SEP-MAY	1.5761	2.7605	3.6258	4.0472	4.3916	5.1896	5.9401
OCT-JUN	1.5594	2.7273	3.4256	3.8408	4.2785	4.9981	5.7944
NOV-JUL	1.5491	2.7375	3.4490	3.8863	4.2990	5.0552	5.8366
DEC-AUG	1.5529	2.7701	3.3583	3.8141	4.3135	4.9669	5.5327
JAN-SEP	1.2597	2.3893	3.0210	3.3310	3.7748	4.4653	4.7730
FEB-OCT	0.9084	1.6605	2.1291	2.5861	3.1420	3.3744	3.8779
MAR-NOV	1.1305	2.0597	2.6412	3.2138	3.6247	3.7785	4.0322
APR-DEC	1.2229	2.1239	2.7655	3.3424	3.7555	4.0303	4.6101

Ten Months, Rainfall to Probability

Table A10a. Slope estimates (m_1) for ten-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
APR-JAN	-6.9658	-7.3147	-7.9166	-8.3818	-8.1580	-8.2971	-8.8293
MAY-FEB	-6.7878	-7.1930	-7.6871	-8.0822	-8.0861	-8.8481	-9.4649
JUN-MAR	-6.7284	-7.2315	-8.3081	-8.1609	-8.1996	-8.8481	-9.4649
JUL-APR	-6.7165	-7.1378	-8.0333	-8.0524	-8.1153	-8.7616	-9.3644
AUG-MAY	-6.7339	-7.2657	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
SEP-JUN	-6.8737	-7.3104	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
OCT-JUL	-6.6806	-7.2106	-7.6933	-7.7146	-7.9352	-8.5984	-9.3815
NOV-AUG	-7.0637	-7.9599	-8.3216	-8.4044	-8.6755	-9.5204	-10.3801
DEC-SEP	-7.3258	-7.9154	-8.1058	-8.1141	-8.3049	-8.8568	-9.3268
JAN-OCT	-6.8647	-7.7442	-8.0196	-7.6677	-8.1074	-8.9515	-9.7569
FEB-NOV	-6.4659	-6.4881	-6.9951	-7.3647	-8.1607	-8.3681	-8.9487
MAR-DEC	-6.9511	-6.9564	-7.1604	-7.5581	-7.8215	-7.7698	-8.1427

Table A10b. Intercept estimates (b_1) for ten-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
APR-JAN	1.4700	2.6621	3.4627	4.1289	4.3364	4.7457	5.3716
MAY-FEB	1.5262	2.7019	3.4218	4.0453	4.3625	5.1555	5.8447
JUN-MAR	1.5616	2.7378	3.7459	4.0926	4.4296	5.1555	5.8447
JUL-APR	1.5707	2.7044	3.6258	4.0472	4.3916	5.1124	5.7911
AUG-MAY	1.5761	2.7605	3.6258	4.0472	4.3916	5.1896	5.9401
SEP-JUN	1.6336	2.7864	3.6258	4.0472	4.3916	5.1896	5.9401
OCT-JUL	1.5594	2.7273	3.4256	3.8408	4.2785	4.9981	5.7944
NOV-AUG	1.6335	2.9903	3.6970	4.2015	4.6994	5.5615	6.4458
DEC-SEP	1.5805	2.8428	3.4300	3.8589	4.3135	4.9942	5.5614
JAN-OCT	1.3915	2.6287	3.2192	3.4358	3.9781	4.7941	5.5650
FEB-NOV	1.2701	2.1552	2.7809	3.3351	4.0315	4.4168	5.0667
MAR-DEC	1.4131	2.4328	2.9587	3.5307	3.9382	4.2149	4.7250

Eleven Months, Rainfall to Probability

Table A11a. Slope estimates (m_1) for eleven-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAR-JAN	-7.2172	-7.6496	-8.1551	-8.5845	-8.3137	-8.4587	-8.8169
APR-FEB	-6.7435	-6.9714	-7.3870	-7.8691	-7.9402	-8.6868	-9.3076
MAY-MAR	-6.7165	-7.2315	-8.3081	-8.1609	-8.1996	-8.8481	-9.4649
JUN-APR	-6.7272	-7.1548	-8.1100	-8.0524	-8.1153	-8.7816	-9.3644
JUL-MAY	-6.7339	-7.2657	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
AUG-JUN	-6.8737	-7.3104	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
SEP-JUL	-6.8737	-7.3104	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
OCT-AUG	-6.9206	-7.7528	-8.1530	-8.2328	-8.5823	-9.3671	-10.2718
NOV-SEP	-7.1188	-8.1474	-8.4973	-8.4366	-8.6755	-9.5876	-10.4694
DEC-OCT	-7.6003	-8.1132	-8.3735	-8.3128	-8.5349	-9.3366	-10.1254
JAN-NOV	-7.4451	-8.0022	-8.5984	-8.2452	-8.9108	-9.5269	-10.2885
FEB-DEC	-7.0535	-8.8527	-7.1429	-7.6422	-8.0419	-8.3568	-9.1305

Table A11b. Intercept estimates (b_1) for eleven-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAR-JAN	1.6820	2.9124	3.6311	4.2803	4.4436	4.8527	5.3719
APR-FEB	1.5780	2.6643	3.3258	3.9612	4.2987	5.0781	5.7628
MAY-MAR	1.5660	2.7378	3.7459	4.0926	4.4296	5.1555	5.8447
JUN-APR	1.5744	2.7150	3.6701	4.0472	4.3916	5.1124	5.7911
JUL-MAY	1.5761	2.7605	3.6258	4.0472	4.3916	5.1896	5.9401
AUG-JUN	1.6336	2.7864	3.6258	4.0472	4.3916	5.1896	5.9401
SEP-JUL	1.6336	2.7864	3.6258	4.0472	4.3916	5.1896	5.9401
OCT-AUG	1.6429	2.9732	3.6675	4.1475	4.6748	5.4912	6.3932
NOV-SEP	1.6631	3.0853	3.7938	4.2232	4.6994	5.6181	6.5224
DEC-OCT	1.7269	3.0255	3.6375	4.0562	4.5232	5.3711	6.1386
JAN-NOV	1.7198	2.9386	3.7094	3.9778	4.6914	5.3763	6.1731
FEB-DEC	1.5671	2.5065	3.0932	3.7252	4.2141	4.7038	5.4791

Twelve Months, Rainfall to Probability

Table A12a. Slope estimates (m_1) for twelve-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
FEB-JAN	-7.3165	-7.3997	-8.0433	-8.8895	-8.4904	-8.9335	-9.7470
MAR-FEB	-7.0712	-7.2216	-7.6133	-8.0596	-8.0777	-8.6874	-9.2854
APR-MAR	-6.7095	-7.0120	-7.9630	-7.9437	-8.0496	-8.6868	-9.3076
MAY-APR	-6.7183	-7.1548	-8.1100	-8.0524	-8.1153	-8.7616	-9.3644
JUN-MAY	-6.7447	-7.2834	-8.1100	-8.0524	-8.1153	-8.8837	-9.5889
JUL-JUN	-6.8737	-7.3104	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
AUG-JUL	-6.8737	-7.3104	-8.0333	-8.0524	-8.1153	-8.8837	-9.5889
SEP-AUG	-7.1474	-7.8758	-8.5755	-8.6620	-8.8165	-9.7613	-10.5503
OCT-SEP	-6.9802	-7.9364	-8.3216	-8.2637	-8.5823	-9.4321	-10.3608
NOV-OCT	-7.3773	-8.3733	-8.6812	-8.6295	-8.8535	-9.8208	-10.8450
DEC-NOV	-8.1363	-8.3169	-8.8495	-9.0055	-9.1251	-9.9463	-10.7977
JAN-DEC	-8.2041	-8.2873	-8.7315	-8.8133	-8.9817	-10.1492	-10.5791

Table A12b. Intercept estimates (b_1) for twelve-month rainfall-to-probability equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
FEB-JAN	1.8235	2.9007	3.6918	4.4631	4.6682	5.2419	6.0652
MAR-FEB	1.7620	2.8357	3.4629	4.0859	4.3884	5.0787	5.7564
APR-MAR	1.6258	2.7006	3.6308	4.0064	4.3637	5.0781	5.7628
MAY-APR	1.5794	2.7150	3.6701	4.0472	4.3916	5.1124	5.7911
JUN-MAY	1.5797	2.7715	3.6701	4.0472	4.3916	5.1896	5.9401
JUL-JUN	1.6336	2.7864	3.6258	4.0472	4.3916	5.1896	5.9401
AUG-JUL	1.6336	2.7864	3.6258	4.0472	4.3916	5.1896	5.9401
SEP-AUG	1.7270	3.0434	3.9097	4.4049	4.8199	5.7504	6.5859
OCT-SEP	1.6735	3.0675	3.7617	4.1686	4.6748	5.5463	6.4696
NOV-OCT	1.8013	3.2727	3.9572	4.3982	4.8653	5.8288	6.8149
DEC-NOV	2.0329	3.2808	4.0484	4.6140	5.0460	5.9081	6.7756
JAN-DEC	2.0469	3.2165	3.9861	4.4992	4.9517	6.0355	6.6249

APPENDIX B

**ESTIMATING THE RAINFALL CORRESPONDING
TO A GIVEN EXCEEDANCE PROBABILITY**

To estimate the precipitation corresponding to a specific exceedance probability [Prob(rainfall \geq x) = p], the following formula, based upon standard linear regression, is applied:

$$x = 10^{(m_2 * z_p + b_2)},$$

where x = precipitation (in inches), z_p = the standard normal deviate (Z-value) corresponding to probability p such that Prob($Z \leq z_p$) = p, and m_2 and b_2 are the slope and intercept estimates, respectively, presented in the following tables.

To use this formula, one must first select the appropriate tables. For example, to estimate the maximum rainfall for the month of July, use the page titled "One Month, Probability to Rainfall" and find the rows labeled "July" in the slope and intercept tables. However, to estimate the maximum rainfall for the period from July to September, the table titled "Three Months, Probability to Rainfall" would be used, incorporating the appropriately labeled rows in the slope and intercept tables.

Each table contains multiple columns, reflecting the range of time intervals. For example, to estimate daily precipitation, the columns labeled "1 Day" would be appropriate, whereas for weekly precipitation, the columns labeled "7 Days" would be chosen.

To calculate the z_p corresponding to a specific probability, it is necessary to estimate the corresponding probability. This can be done using a common statistical table for the normal (Gaussian) curve. For a rough approximation, however, the table below lists some z-values and their corresponding probabilities.

Probability	Z-Value
0.005	-2.5758
0.010	-2.3263
0.025	-1.9600
0.050	-1.6449
0.100	-1.2816
0.200	-0.8416
0.250	-0.6745
0.500	0.0000

Probability	Z-value
0.500	0.0000
0.750	0.6745
0.800	0.8416
0.900	1.2816
0.950	1.6449
0.975	1.9600
0.990	2.3263
0.995	2.5758

Example: Given exceedance probability of 0.05, for a 7-day period in November, Prob($Z < z$) = 0.05 for $z = -1.6449$, so $x = 10^{(-0.1901 * -1.6449 + 0.4469)} = 10^{0.7596} = 5.75$ inches.

One Month, Probability to Rainfall

Table B1a. Slope estimates (m_2) for one-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JAN	-0.2182	-0.2172	-0.2251	-0.2143	-0.2182	-0.1793	-0.1812
FEB	-0.2470	-0.2341	-0.2346	-0.2279	-0.2262	-0.2221	-0.2077
MAR	-0.2144	-0.2037	-0.1918	-0.1911	-0.1838	-0.1684	-0.1757
APR	-0.2532	-0.2590	-0.2535	-0.2348	-0.2357	-0.2189	-0.2031
MAY	-0.2880	-0.2589	-0.2785	-0.2604	-0.2391	-0.2362	-0.2410
JUN	-0.2928	-0.3129	-0.2980	-0.2844	-0.2858	-0.2619	-0.2637
JUL	-0.5164	-0.5471	-0.4950	-0.5073	-0.5052	-0.5095	-0.4525
AUG	-0.4762	-0.4659	-0.4211	-0.4270	-0.4464	-0.4460	-0.4458
SEP	-0.5586	-0.4584	-0.4841	-0.3564	-0.3708	-0.3586	-0.3691
OCT	-0.2171	-0.2466	-0.2340	-0.2360	-0.2336	-0.2462	-0.2360
NOV	-0.2172	-0.1987	-0.1746	-0.1830	-0.1815	-0.1869	-0.1901
DEC	-0.1628	-0.1762	-0.1876	-0.1703	-0.1564	-0.1588	-0.1581

Table B1b. Intercept estimates (b_2) for one-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JAN	0.0239	0.1848	0.2486	0.3147	0.3619	0.4300	0.4626
FEB	-0.0581	0.0967	0.1690	0.2310	0.2825	0.3194	0.3627
MAR	-0.1298	0.0253	0.1081	0.1598	0.2084	0.2493	0.2751
APR	-0.2441	-0.1190	-0.0231	0.0316	0.0784	0.1260	0.1549
MAY	-0.3533	-0.2293	-0.1901	-0.1251	-0.0828	-0.0459	-0.0149
JUN	-0.3290	-0.2454	-0.1756	-0.1162	-0.0854	-0.0429	-0.0188
JUL	-0.6053	-0.5170	-0.4534	-0.4272	-0.4053	-0.3823	-0.3428
AUG	-0.5132	-0.4135	-0.3250	-0.2938	-0.2624	-0.2448	-0.2228
SEP	-0.4359	-0.2478	-0.1941	-0.0995	-0.0694	-0.0142	0.0145
OCT	-0.0964	0.0443	0.1219	0.1713	0.2073	0.2365	0.2890
NOV	0.0451	0.1967	0.2830	0.3347	0.3772	0.4058	0.4469
DEC	0.0493	0.2035	0.2739	0.3339	0.3934	0.4423	0.4750

Two Months, Probability to Rainfall

Table B2a. Slope estimates (m_2) for two-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
DEC-JAN	-0.1568	-0.1434	-0.1518	-0.1487	-0.1476	-0.1440	-0.1434
JAN-FEB	-0.1772	-0.1600	-0.1480	-0.1529	-0.1432	-0.1301	-0.1273
FEB-MAR	-0.1953	-0.1773	-0.1678	-0.1542	-0.1538	-0.1474	-0.1430
MAR-APR	-0.1830	-0.1809	-0.1580	-0.1597	-0.1604	-0.1591	-0.1606
APR-MAY	-0.1920	-0.2121	-0.2116	-0.2027	-0.2058	-0.1896	-0.1896
MAY-JUN	-0.1940	-0.1857	-0.1950	-0.2042	-0.1987	-0.1918	-0.1954
JUN-JUL	-0.2030	-0.2148	-0.2199	-0.2133	-0.2199	-0.2165	-0.2207
JUL-AUG	-0.3385	-0.3501	-0.2968	-0.2980	-0.3092	-0.3144	-0.3094
AUG-SEP	-0.2781	-0.2885	-0.2870	-0.2930	-0.3024	-0.2973	-0.3036
SEP-OCT	-0.1866	-0.2045	-0.2078	-0.2009	-0.1981	-0.2122	-0.2137
OCT-NOV	-0.1877	-0.1867	-0.1717	-0.1661	-0.1643	-0.1696	-0.1711
NOV-DEC	-0.1627	-0.1688	-0.1617	-0.1605	-0.1449	-0.1466	-0.1433

Table B2b. Intercept estimates (b_2) for two-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
DEC-JAN	0.1373	0.3008	0.3642	0.4234	0.4726	0.5183	0.5505
JAN-FEB	0.1264	0.2715	0.3465	0.3962	0.4500	0.4977	0.5314
FEB-MAR	0.0341	0.1711	0.2438	0.3026	0.3487	0.3824	0.4177
MAR-APR	-0.0587	0.0894	0.1720	0.2151	0.2589	0.2924	0.3221
APR-MAY	-0.1508	-0.0328	0.0469	0.0935	0.1328	0.1741	0.1997
MAY-JUN	-0.1859	-0.0857	-0.0388	0.0071	0.0381	0.0700	0.0958
JUN-JUL	-0.2389	-0.1437	-0.1046	-0.0541	-0.0289	0.0049	0.0256
JUL-AUG	-0.3377	-0.2456	-0.1769	-0.1422	-0.1076	-0.0857	-0.0668
AUG-SEP	-0.1931	-0.0828	-0.0151	0.0174	0.0548	0.0866	0.1139
SEP-OCT	-0.0389	0.1048	0.1816	0.2328	0.2693	0.3010	0.3413
OCT-NOV	0.0867	0.2368	0.3138	0.3730	0.4120	0.4425	0.4789
NOV-DEC	0.1312	0.2790	0.3599	0.4161	0.4650	0.5042	0.5431

Three Months, Probability to Rainfall

Table B3a. Slope estimates (m_2) for three-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
NOV-JAN	-0.1577	-0.1393	-0.1359	-0.1333	-0.1280	-0.1271	-0.1235
DEC-FEB	-0.1536	-0.1422	-0.1380	-0.1391	-0.1294	-0.1216	-0.1150
JAN-MAR	-0.1733	-0.1503	-0.1367	-0.1392	-0.1383	-0.1282	-0.1257
FEB-APR	-0.1986	-0.1855	-0.1711	-0.1587	-0.1565	-0.1486	-0.1459
MAR-MAY	-0.1805	-0.1772	-0.1599	-0.1604	-0.1611	-0.1591	-0.1590
APR-JUN	-0.1771	-0.1824	-0.1759	-0.1698	-0.1778	-0.1643	-0.1599
MAY-JUL	-0.1648	-0.1724	-0.1796	-0.1913	-0.1898	-0.1843	-0.1878
JUN-AUG	-0.1849	-0.2074	-0.2013	-0.1834	-0.1831	-0.1747	-0.1720
JUL-SEP	-0.2024	-0.2198	-0.2176	-0.2199	-0.2282	-0.2358	-0.2416
AUG-OCT	-0.1826	-0.1931	-0.1942	-0.1940	-0.1926	-0.2080	-0.2101
SEP-NOV	-0.1756	-0.1784	-0.1631	-0.1535	-0.1518	-0.1553	-0.1578
OCT-DEC	-0.1506	-0.1610	-0.1519	-0.1443	-0.1365	-0.1393	-0.1347

Table B3b. Intercept estimates (b_2) for three-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
NOV-JAN	0.1781	0.3393	0.4103	0.4719	0.5185	0.5583	0.5939
DEC-FEB	0.1804	0.3322	0.3995	0.4531	0.5049	0.5500	0.5836
JAN-MAR	0.1492	0.2854	0.3580	0.4082	0.4570	0.5012	0.5335
FEB-APR	0.0546	0.1930	0.2648	0.3178	0.3645	0.3995	0.4302
MAR-MAY	-0.0349	0.1009	0.1804	0.2240	0.2662	0.2977	0.3305
APR-JUN	-0.0872	0.0331	0.1021	0.1449	0.1817	0.2142	0.2360
MAY-JUL	-0.1538	-0.0605	-0.0209	0.0208	0.0495	0.0833	0.1087
JUN-AUG	-0.1624	-0.0641	-0.0169	0.0328	0.0715	0.1042	0.1265
JUL-SEP	-0.1467	-0.0351	0.0288	0.0614	0.0995	0.1288	0.1560
AUG-OCT	-0.0067	0.1275	0.2036	0.2534	0.2886	0.3163	0.3532
SEP-NOV	0.1062	0.2496	0.3335	0.3940	0.4311	0.4643	0.5005
OCT-DEC	0.1496	0.3044	0.3818	0.4399	0.4823	0.5213	0.5598

Four Months, Probability to Rainfall

Table B4a. Slope estimates (m_2) for four-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
OCT-JAN	-0.1524	-0.1420	-0.1325	-0.1236	-0.1234	-0.1223	-0.1177
NOV-FEB	-0.1580	-0.1435	-0.1366	-0.1367	-0.1252	-0.1150	-0.1069
DEC-MAR	-0.1493	-0.1388	-0.1257	-0.1274	-0.1255	-0.1214	-0.1150
JAN-APR	-0.1753	-0.1562	-0.1427	-0.1434	-0.1427	-0.1322	-0.1298
FEB-MAY	-0.1923	-0.1808	-0.1702	-0.1588	-0.1562	-0.1470	-0.1436
MAR-JUN	-0.1817	-0.1738	-0.1452	-0.1422	-0.1409	-0.1429	-0.1444
APR-JUL	-0.1531	-0.1666	-0.1666	-0.1631	-0.1727	-0.1618	-0.1581
MAY-AUG	-0.1662	-0.1751	-0.1733	-0.1790	-0.1716	-0.1667	-0.1646
JUN-SEP	-0.1749	-0.1877	-0.1966	-0.1871	-0.1931	-0.1916	-0.1932
JUL-OCT	-0.1802	-0.1929	-0.1924	-0.1920	-0.1899	-0.2051	-0.2065
AUG-NOV	-0.1744	-0.1731	-0.1587	-0.1534	-0.1508	-0.1547	-0.1568
SEP-DEC	-0.1454	-0.1581	-0.1483	-0.1384	-0.1330	-0.1349	-0.1293

Table B4b. Intercept estimates (b_2) for four-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
OCT-JAN	0.1894	0.3492	0.4220	0.4835	0.5272	0.5666	0.6026
NOV-FEB	0.2084	0.3616	0.4312	0.4876	0.5345	0.5777	0.6142
DEC-MAR	0.1928	0.3390	0.4088	0.4610	0.5081	0.5509	0.5840
JAN-APR	0.1606	0.2978	0.3682	0.4160	0.4629	0.5064	0.5377
FEB-MAY	0.0677	0.1991	0.2678	0.3198	0.3661	0.4024	0.4331
MAR-JUN	-0.0050	0.1281	0.2025	0.2466	0.2895	0.3163	0.3435
APR-JUL	-0.0706	0.0481	0.1071	0.1481	0.1845	0.2158	0.2372
MAY-AUG	-0.1114	-0.0120	0.0329	0.0751	0.1132	0.1426	0.1668
JUN-SEP	-0.0844	0.0264	0.0840	0.1258	0.1651	0.1955	0.2244
JUL-OCT	-0.0049	0.1309	0.2071	0.2561	0.2911	0.3189	0.3557
AUG-NOV	0.1117	0.2545	0.3379	0.3978	0.4346	0.4666	0.5034
SEP-DEC	0.1613	0.3098	0.3898	0.4481	0.4879	0.5289	0.5677

Five Months, Probability to Rainfall

Table B5a. Slope estimates (m_2) for five-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
SEP-JAN	-0.1439	-0.1375	-0.1263	-0.1155	-0.1201	-0.1182	-0.1113
OCT-FEB	-0.1542	-0.1461	-0.1392	-0.1292	-0.1265	-0.1168	-0.1080
NOV-MAR	-0.1562	-0.1384	-0.1245	-0.1254	-0.1234	-0.1150	-0.1069
DEC-APR	-0.1533	-0.1427	-0.1324	-0.1323	-0.1292	-0.1234	-0.1176
JAN-MAY	-0.1692	-0.1508	-0.1405	-0.1422	-0.1409	-0.1303	-0.1279
FEB-JUN	-0.1828	-0.1740	-0.1584	-0.1432	-0.1410	-0.1372	-0.1335
MAR-JUL	-0.1757	-0.1747	-0.1452	-0.1422	-0.1409	-0.1429	-0.1444
APR-AUG	-0.1592	-0.1663	-0.1573	-0.1531	-0.1538	-0.1525	-0.1493
MAY-SEP	-0.1685	-0.1759	-0.1779	-0.1796	-0.1820	-0.1755	-0.1745
JUN-OCT	-0.1746	-0.1946	-0.1872	-0.1699	-0.1667	-0.1776	-0.1806
JUL-NOV	-0.1744	-0.1731	-0.1587	-0.1534	-0.1508	-0.1547	-0.1568
AUG-DEC	-0.1423	-0.1537	-0.1433	-0.1384	-0.1330	-0.1349	-0.1293

Table B5b. Intercept estimates (b_2) for five-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
SEP-JAN	0.1987	0.3538	0.4290	0.4897	0.5297	0.5701	0.6067
OCT-FEB	0.2177	0.3700	0.4368	0.4958	0.5375	0.5798	0.6157
NOV-MAR	0.2185	0.3666	0.4380	0.4929	0.5352	0.5777	0.6142
DEC-APR	0.2009	0.3466	0.4153	0.4670	0.5134	0.5562	0.5883
JAN-MAY	0.1688	0.3016	0.3705	0.4176	0.4645	0.5075	0.5387
FEB-JUN	0.0854	0.2128	0.2801	0.3323	0.3792	0.4105	0.4400
MAR-JUL	-0.0003	0.1299	0.2025	0.2466	0.2895	0.3163	0.3435
APR-AUG	-0.0454	0.0747	0.1354	0.1755	0.2165	0.2428	0.2623
MAY-SEP	-0.0664	0.0417	0.1011	0.1391	0.1784	0.2125	0.2442
JUN-OCT	0.0108	0.1384	0.2160	0.2727	0.3089	0.3389	0.3735
JUL-NOV	0.1117	0.2545	0.3379	0.3978	0.4346	0.4666	0.5034
AUG-DEC	0.1632	0.3119	0.3919	0.4481	0.4879	0.5289	0.5677

Six Months, Probability to Rainfall

Table B6a. Slope estimates (m_2) for six-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
AUG-JAN	-0.1402	-0.1324	-0.1212	-0.1155	-0.1201	-0.1182	-0.1113
SEP-FEB	-0.1506	-0.1445	-0.1338	-0.1237	-0.1237	-0.1130	-0.1057
OCT-MAR	-0.1561	-0.1420	-0.1270	-0.1280	-0.1248	-0.1168	-0.1080
NOV-APR	-0.1564	-0.1400	-0.1275	-0.1271	-0.1247	-0.1162	-0.1081
DEC-MAY	-0.1468	-0.1386	-0.1324	-0.1323	-0.1292	-0.1218	-0.1151
JAN-JUN	-0.1598	-0.1463	-0.1371	-0.1371	-0.1344	-0.1248	-0.1220
FEB-JUL	-0.1824	-0.1740	-0.1584	-0.1432	-0.1410	-0.1372	-0.1335
MAR-AUG	-0.1749	-0.1749	-0.1484	-0.1462	-0.1413	-0.1450	-0.1460
APR-SEP	-0.1632	-0.1685	-0.1545	-0.1477	-0.1500	-0.1488	-0.1470
MAY-OCT	-0.1665	-0.1774	-0.1682	-0.1643	-0.1606	-0.1736	-0.1770
JUN-NOV	-0.1751	-0.1739	-0.1586	-0.1534	-0.1508	-0.1547	-0.1568
JUL-DEC	-0.1423	-0.1537	-0.1433	-0.1384	-0.1330	-0.1349	-0.1293

Table B6b. Intercept estimates (b_2) for six-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
AUG-JAN	0.2006	0.3560	0.4311	0.4897	0.5297	0.5701	0.6067
SEP-FEB	0.2219	0.3729	0.4429	0.5005	0.5395	0.5827	0.6175
OCT-MAR	0.2260	0.3744	0.4436	0.4967	0.5382	0.5798	0.6157
NOV-APR	0.2204	0.3675	0.4397	0.4940	0.5362	0.5786	0.6151
DEC-MAY	0.2042	0.3483	0.4153	0.4670	0.5134	0.5568	0.5893
JAN-JUN	0.1773	0.3080	0.3739	0.4209	0.4683	0.5104	0.5416
FEB-JUL	0.0859	0.2128	0.2801	0.3323	0.3792	0.4105	0.4400
MAR-AUG	0.0168	0.1434	0.2102	0.2563	0.3003	0.3263	0.3535
APR-SEP	-0.0139	0.1030	0.1760	0.2172	0.2559	0.2862	0.3112
MAY-OCT	0.0240	0.1516	0.2268	0.2777	0.3130	0.3423	0.3768
JUN-NOV	0.1157	0.2566	0.3395	0.3978	0.4346	0.4666	0.5034
JUL-DEC	0.1632	0.3119	0.3919	0.4481	0.4879	0.5289	0.5677

Seven Months, Probability to Rainfall

Table B7a. Slope estimates (m_2) for seven-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUL-JAN	-0.1402	-0.1324	-0.1212	-0.1155	-0.1201	-0.1182	-0.1113
AUG-FEB	-0.1472	-0.1393	-0.1313	-0.1237	-0.1237	-0.1130	-0.1057
SEP-MAR	-0.1523	-0.1402	-0.1215	-0.1225	-0.1220	-0.1130	-0.1057
OCT-APR	-0.1562	-0.1435	-0.1300	-0.1296	-0.1260	-0.1179	-0.1091
NOV-MAY	-0.1493	-0.1359	-0.1275	-0.1271	-0.1247	-0.1146	-0.1056
DEC-JUN	-0.1421	-0.1370	-0.1312	-0.1307	-0.1285	-0.1213	-0.1148
JAN-JUL	-0.1591	-0.1463	-0.1371	-0.1371	-0.1344	-0.1248	-0.1220
FEB-AUG	-0.1810	-0.1706	-0.1576	-0.1422	-0.1361	-0.1354	-0.1324
MAR-SEP	-0.1773	-0.1731	-0.1460	-0.1451	-0.1407	-0.1439	-0.1431
APR-OCT	-0.1486	-0.1617	-0.1635	-0.1529	-0.1479	-0.1556	-0.1604
MAY-NOV	-0.1709	-0.1701	-0.1583	-0.1534	-0.1508	-0.1538	-0.1546
JUN-DEC	-0.1408	-0.1535	-0.1428	-0.1384	-0.1330	-0.1349	-0.1293

Table B7b. Intercept estimates (b_2) for seven-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUL-JAN	0.2006	0.3560	0.4311	0.4897	0.5297	0.5701	0.6067
AUG-FEB	0.2236	0.3751	0.4440	0.5005	0.5395	0.5827	0.6175
SEP-MAR	0.2302	0.3773	0.4497	0.5015	0.5402	0.5827	0.6175
OCT-APR	0.2279	0.3753	0.4453	0.4979	0.5392	0.5806	0.6166
NOV-MAY	0.2237	0.3692	0.4397	0.4940	0.5362	0.5792	0.6162
DEC-JUN	0.2094	0.3509	0.4164	0.4681	0.5139	0.5571	0.5895
JAN-JUL	0.1778	0.3080	0.3739	0.4209	0.4683	0.5104	0.5416
FEB-AUG	0.0915	0.2203	0.2858	0.3396	0.3875	0.4164	0.4457
MAR-SEP	0.0329	0.1608	0.2310	0.2748	0.3172	0.3476	0.3791
APR-OCT	0.0652	0.1944	0.2596	0.3092	0.3439	0.3749	0.4057
MAY-NOV	0.1213	0.2605	0.3397	0.3978	0.4346	0.4671	0.5047
JUN-DEC	0.1664	0.3137	0.3931	0.4481	0.4879	0.5289	0.5677

Eight Months, Probability to Rainfall

Table B8a. Slope estimates (m_2) for eight-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUN-JAN	-0.1399	-0.1322	-0.1200	-0.1155	-0.1201	-0.1182	-0.1113
JUL-FEB	-0.1472	-0.1393	-0.1313	-0.1237	-0.1237	-0.1130	-0.1057
AUG-MAR	-0.1489	-0.1386	-0.1215	-0.1225	-0.1220	-0.1130	-0.1057
SEP-APR	-0.1523	-0.1417	-0.1245	-0.1242	-0.1232	-0.1141	-0.1068
OCT-MAY	-0.1524	-0.1394	-0.1300	-0.1296	-0.1260	-0.1163	-0.1066
NOV-JUN	-0.1467	-0.1353	-0.1275	-0.1271	-0.1247	-0.1146	-0.1056
DEC-JUL	-0.1421	-0.1370	-0.1312	-0.1307	-0.1285	-0.1213	-0.1148
JAN-AUG	-0.1562	-0.1402	-0.1335	-0.1338	-0.1292	-0.1189	-0.1172
FEB-SEP	-0.1778	-0.1664	-0.1586	-0.1449	-0.1385	-0.1376	-0.1359
MAR-OCT	-0.1536	-0.1528	-0.1483	-0.1428	-0.1368	-0.1412	-0.1413
APR-NOV	-0.1605	-0.1629	-0.1544	-0.1418	-0.1414	-0.1436	-0.1443
MAY-DEC	-0.1418	-0.1524	-0.1428	-0.1384	-0.1330	-0.1349	-0.1293

Table B8b. Intercept estimates (b_2) for eight-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
JUN-JAN	0.2008	0.3566	0.4323	0.4897	0.5297	0.5701	0.6067
JUL-FEB	0.2236	0.3751	0.4440	0.5005	0.5395	0.5827	0.6175
AUG-MAR	0.2319	0.3780	0.4497	0.5015	0.5402	0.5827	0.6175
SEP-APR	0.2322	0.3782	0.4514	0.5026	0.5412	0.5835	0.6184
OCT-MAY	0.2298	0.3770	0.4453	0.4979	0.5392	0.5813	0.6176
NOV-JUN	0.2273	0.3704	0.4397	0.4940	0.5362	0.5792	0.6162
DEC-JUL	0.2094	0.3509	0.4164	0.4681	0.5139	0.5571	0.5895
JAN-AUG	0.1817	0.3132	0.3783	0.4266	0.4737	0.5153	0.5462
FEB-SEP	0.1055	0.2330	0.2978	0.3485	0.3946	0.4249	0.4552
MAR-OCT	0.1044	0.2374	0.2934	0.3425	0.3783	0.4123	0.4471
APR-NOV	0.1425	0.2823	0.3581	0.4167	0.4509	0.4827	0.5194
MAY-DEC	0.1680	0.3151	0.3931	0.4481	0.4879	0.5289	0.5677

Nine Months, Probability to Rainfall

Table B9a. Slope estimates (m_2) for nine-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAY-JAN	-0.1406	-0.1311	-0.1200	-0.1155	-0.1201	-0.1182	-0.1113
JUN-FEB	-0.1469	-0.1390	-0.1301	-0.1237	-0.1237	-0.1130	-0.1057
JUL-MAR	-0.1489	-0.1386	-0.1215	-0.1225	-0.1220	-0.1130	-0.1057
AUG-APR	-0.1489	-0.1401	-0.1245	-0.1242	-0.1232	-0.1141	-0.1068
SEP-MAY	-0.1485	-0.1376	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
OCT-JUN	-0.1497	-0.1387	-0.1300	-0.1296	-0.1260	-0.1163	-0.1066
NOV-JUL	-0.1467	-0.1353	-0.1275	-0.1271	-0.1247	-0.1146	-0.1056
DEC-AUG	-0.1374	-0.1286	-0.1253	-0.1243	-0.1204	-0.1132	-0.1074
JAN-SEP	-0.1506	-0.1344	-0.1281	-0.1299	-0.1265	-0.1166	-0.1156
FEB-OCT	-0.1594	-0.1639	-0.1566	-0.1482	-0.1357	-0.1364	-0.1283
MAR-NOV	-0.1549	-0.1519	-0.1418	-0.1339	-0.1288	-0.1322	-0.1331
APR-DEC	-0.1462	-0.1540	-0.1458	-0.1373	-0.1324	-0.1334	-0.1251

Table B9b. Intercept estimates (b_2) for nine-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAY-JAN	0.2019	0.3574	0.4323	0.4897	0.5297	0.5701	0.6067
JUN-FEB	0.2238	0.3756	0.4451	0.5005	0.5395	0.5827	0.6175
JUL-MAR	0.2319	0.3780	0.4497	0.5015	0.5402	0.5827	0.6175
AUG-APR	0.2339	0.3789	0.4514	0.5026	0.5412	0.5835	0.6184
SEP-MAY	0.2341	0.3799	0.4514	0.5026	0.5412	0.5842	0.6195
OCT-JUN	0.2334	0.3782	0.4453	0.4979	0.5392	0.5813	0.6176
NOV-JUL	0.2273	0.3704	0.4397	0.4940	0.5362	0.5792	0.6162
DEC-AUG	0.2134	0.3561	0.4209	0.4740	0.5194	0.5621	0.5943
JAN-SEP	0.1897	0.3212	0.3870	0.4328	0.4774	0.5205	0.5517
FEB-OCT	0.1448	0.2722	0.3335	0.3833	0.4263	0.4602	0.4976
MAR-NOV	0.1751	0.3128	0.3746	0.4303	0.4668	0.4995	0.5367
APR-DEC	0.1788	0.3271	0.4031	0.4588	0.4974	0.5377	0.5768

Ten Months, Probability to Rainfall

Table B10a. Slope estimates (m_2) for ten-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
APR-JAN	-0.1436	-0.1367	-0.1263	-0.1193	-0.1226	-0.1205	-0.1133
MAY-FEB	-0.1473	-0.1390	-0.1301	-0.1237	-0.1237	-0.1130	-0.1057
JUN-MAR	-0.1486	-0.1383	-0.1204	-0.1225	-0.1220	-0.1130	-0.1057
JUL-APR	-0.1489	-0.1401	-0.1245	-0.1242	-0.1232	-0.1141	-0.1068
AUG-MAY	-0.1485	-0.1376	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
SEP-JUN	-0.1455	-0.1368	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
OCT-JUL	-0.1497	-0.1387	-0.1300	-0.1296	-0.1260	-0.1163	-0.1066
NOV-AUG	-0.1416	-0.1256	-0.1202	-0.1190	-0.1153	-0.1050	-0.0963
DEC-SEP	-0.1365	-0.1263	-0.1234	-0.1232	-0.1204	-0.1129	-0.1072
JAN-OCT	-0.1457	-0.1291	-0.1247	-0.1304	-0.1233	-0.1117	-0.1025
FEB-NOV	-0.1547	-0.1541	-0.1430	-0.1358	-0.1225	-0.1195	-0.1117
MAR-DEC	-0.1439	-0.1438	-0.1397	-0.1323	-0.1279	-0.1287	-0.1228

Table B0b. Intercept estimates (b_2) for ten-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
APR-JAN	0.2110	0.3639	0.4374	0.4926	0.5315	0.5720	0.6084
MAY-FEB	0.2248	0.3756	0.4451	0.5005	0.5395	0.5827	0.6175
JUN-MAR	0.2321	0.3786	0.4509	0.5015	0.5402	0.5827	0.6175
JUL-APR	0.2339	0.3789	0.4514	0.5026	0.5412	0.5835	0.6184
AUG-MAY	0.2341	0.3799	0.4514	0.5026	0.5412	0.5842	0.6195
SEP-JUN	0.2377	0.3812	0.4514	0.5026	0.5412	0.5842	0.6195
OCT-JUL	0.2334	0.3782	0.4453	0.4979	0.5392	0.5813	0.6176
NOV-AUG	0.2313	0.3757	0.4443	0.4999	0.5417	0.5842	0.6210
DEC-SEP	0.2157	0.3592	0.4232	0.4756	0.5194	0.5639	0.5963
JAN-OCT	0.2027	0.3394	0.4014	0.4481	0.4907	0.5358	0.5704
FEB-NOV	0.1964	0.3322	0.3976	0.4528	0.4940	0.5278	0.5662
MAR-DEC	0.2033	0.3497	0.4132	0.4671	0.5035	0.5425	0.5803

Eleven Months, Probability to Rainfall

Table B11a. Slope estimates (m_2) for eleven-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAR-JAN	-0.1386	-0.1307	-0.1226	-0.1165	-0.1203	-0.1182	-0.1134
APR-FEB	-0.1483	-0.1434	-0.1354	-0.1271	-0.1259	-0.1151	-0.1074
MAY-MAR	-0.1489	-0.1383	-0.1204	-0.1225	-0.1220	-0.1130	-0.1057
JUN-APR	-0.1486	-0.1398	-0.1233	-0.1242	-0.1232	-0.1141	-0.1068
JUL-MAY	-0.1485	-0.1376	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
AUG-JUN	-0.1455	-0.1368	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
SEP-JUL	-0.1455	-0.1368	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
OCT-AUG	-0.1445	-0.1290	-0.1227	-0.1215	-0.1165	-0.1068	-0.0974
NOV-SEP	-0.1405	-0.1227	-0.1177	-0.1185	-0.1153	-0.1043	-0.0955
DEC-OCT	-0.1316	-0.1233	-0.1194	-0.1203	-0.1172	-0.1071	-0.0988
JAN-NOV	-0.1343	-0.1250	-0.1163	-0.1213	-0.1122	-0.1050	-0.0972
FEB-DEC	-0.1418	-0.1459	-0.1400	-0.1309	-0.1243	-0.1197	-0.1095

Table B11b. Intercept estimates (b_2) for eleven-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
MAR-JAN	0.2331	0.3807	0.4453	0.4986	0.5345	0.5737	0.6093
APR-FEB	0.2340	0.3822	0.4502	0.5034	0.5414	0.5846	0.6191
MAY-MAR	0.2332	0.3786	0.4509	0.5015	0.5402	0.5827	0.6175
JUN-APR	0.2340	0.3795	0.4525	0.5026	0.5412	0.5835	0.6184
JUL-MAY	0.2341	0.3799	0.4514	0.5026	0.5412	0.5842	0.6195
AUG-JUN	0.2377	0.3812	0.4514	0.5026	0.5412	0.5842	0.6195
SEP-JUL	0.2377	0.3812	0.4514	0.5026	0.5412	0.5842	0.6195
OCT-AUG	0.2374	0.3835	0.4498	0.5038	0.5447	0.5862	0.6224
NOV-SEP	0.2336	0.3787	0.4465	0.5006	0.5417	0.5860	0.6230
DEC-OCT	0.2272	0.3729	0.4344	0.4879	0.5300	0.5753	0.6063
JAN-NOV	0.2310	0.3672	0.4314	0.4824	0.5265	0.5643	0.6000
FEB-DEC	0.2222	0.3658	0.4330	0.4874	0.5240	0.5629	0.6001

Twelve Months, Probability to Rainfall

Table B12a. Slope estimates (m_2) for twelve-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
FEB-JAN	-0.1367	-0.1351	-0.1243	-0.1151	-0.1178	-0.1119	-0.1026
MAR-FEB	-0.1414	-0.1385	-0.1313	-0.1241	-0.1238	-0.1151	-0.1077
APR-MAR	-0.1490	-0.1426	-0.1256	-0.1259	-0.1242	-0.1151	-0.1074
MAY-APR	-0.1488	-0.1398	-0.1233	-0.1242	-0.1232	-0.1141	-0.1068
JUN-MAY	-0.1483	-0.1373	-0.1233	-0.1242	-0.1232	-0.1126	-0.1043
JUL-JUN	-0.1455	-0.1368	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
AUG-JUL	-0.1455	-0.1368	-0.1245	-0.1242	-0.1232	-0.1126	-0.1043
SEP-AUG	-0.1399	-0.1270	-0.1186	-0.1154	-0.1134	-0.1024	-0.0948
OCT-SEP	-0.1433	-0.1260	-0.1202	-0.1210	-0.1165	-0.1060	-0.0965
NOV-OCT	-0.1356	-0.1194	-0.1152	-0.1159	-0.1129	-0.1018	-0.0922
DEC-NOV	-0.1229	-0.1202	-0.1130	-0.1110	-0.1096	-0.1005	-0.0926
JAN-DEC	-0.1219	-0.1207	-0.1145	-0.1135	-0.1113	-0.0985	-0.0945

Table B12b. Intercept estimates (b_2) for twelve-month probability-to-rainfall equations.

	1 Day	2 Days	3 Days	4 Days	5 Days	6 Days	7 Days
FEB-JAN	0.2492	0.3920	0.4590	0.5136	0.5498	0.5868	0.6223
MAR-FEB	0.2492	0.3927	0.4549	0.5070	0.5433	0.5846	0.6199
APR-MAR	0.2423	0.3851	0.4560	0.5044	0.5421	0.5846	0.6191
MAY-APR	0.2351	0.3795	0.4525	0.5026	0.5412	0.5835	0.6184
JUN-MAY	0.2342	0.3805	0.4525	0.5026	0.5412	0.5842	0.6195
JUL-JUN	0.2377	0.3812	0.4514	0.5026	0.5412	0.5842	0.6195
AUG-JUL	0.2377	0.3812	0.4514	0.5026	0.5412	0.5842	0.6195
SEP-AUG	0.2416	0.3864	0.4559	0.5085	0.5467	0.5891	0.6242
OCT-SEP	0.2398	0.3865	0.4520	0.5044	0.5447	0.5880	0.6244
NOV-OCT	0.2442	0.3909	0.4558	0.5097	0.5495	0.5935	0.6284
DEC-NOV	0.2499	0.3945	0.4575	0.5124	0.5530	0.5940	0.6275
JAN-DEC	0.2495	0.3881	0.4565	0.5105	0.5513	0.5947	0.6262