

**LIGHTNING CREEK STUDY, PACK RIVER STUDY,  
AND SAND CREEK STUDY**

**Bonner County**

**Data Collected 1978**

**Final Summary October 1980**

**Department of Health and Welfare  
Division of Environment  
Statehouse  
Boise, Idaho 83720**

**Water Quality Summary  
No. 20**

LIGHTNING CREEK STUDY, PACK RIVER STUDY,  
AND SAND CREEK STUDY

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SUMMARY OF  
LIGHTNING CREEK STUDY, PACK RIVER STUDY, AND SAND CREEK STUDY

Lightning Creek Study

In Water Year 1978 a water quality study was conducted on Lightning Creek in Bonner County to determine the present water quality of the stream. One station near the mouth of Lightning Creek was monitored monthly for temperature, dissolved oxygen, pH, bacteria, solids, nutrients, and trace inorganic toxins.

The study on Lightning Creek has shown that the stream water quality is generally very high. No violations of the Idaho water quality standards were observed during 1978.

Pack River Study

During Water Year 1978 the water quality of Pack River in Bonner County was studied to examine the present status of the stream. The study involved monitoring one station at the U.S. Geological Survey flow gaging station off U.S. Highway 95 and a second station near the mouth of the Pack River. The parameters examined at both stations were temperature, dissolved oxygen, pH, bacteria, solids, nutrients, and trace inorganic toxins.

The water quality of Pack River was found generally to be very good. However, a few minor violations of the 90% saturation standard for dissolved oxygen were observed and water temperature during August exceeded 19°C which is the upper criteria for a salmonid or trout fishery. No significant differences in water quality were noted between the upper and lower stations on the river.

Sand Creek Study

During Water Year 1978 a water quality study was conducted on Sand Creek near the City of Sandpoint in Bonner County to assess the present water quality of the stream. One station near the mouth of Sand Creek was monitored monthly for temperature, dissolved oxygen, pH, bacteria, solids, nutrients, and trace inorganic toxins.

The study on Sand Creek found that the stream is intermittent and did flow from mid-December 1977 through mid-April 1978. When the stream was flowing the water quality was very good and no violations of the Idaho water quality standards or recommended criteria were observed during the study.

DATA INVENTORY

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 LIGHTNING CREEK AT MOUTH HWY 10A  
 16017 IDAHO  
 PACIFIC NORTHWEST 1307  
 CLARK FORK-PEND OREILLE  
 2110SURV 771222  
 0000 CLASS 00

/TYPA/AMUNT/STREAM

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 MILES 0745.50 0142.00 000.75

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	8.10000	18.3820	4.28743	.529312	1.29271	15.5000	2.50000	77/10/19	78/09/14
00061 STREAM FLOW, INST-CFS	2	25.0000	1250.00	35.3553	1.41421	25.0000	50.0000	.000000	78/02/15	78/09/14
00076 TURB TURBIDMTR HACH FTU	10	1.20000	.584443	.764489	.637074	.241753	2.90000	.500000	77/10/19	78/09/14
00094 CONDUCTVY FIELD MICROMHO	8	20.1250	32.1250	5.66789	.281634	2.00390	27.0000	12.0000	77/11/08	78/08/08
00095 CONDUCTVY AT 25C MICROMHO	8	24.1250	36.6964	6.05776	.251099	2.14174	31.0000	13.0000	77/10/19	78/09/14
00116 INTINSVE SURVEY IDENT	12	771602	.667E+06	.000000		.000000	771602	771602	77/10/19	78/09/14
00300 DO MG/L	9	11.3333	1.43262	1.19692	.105611	.398973	12.0000	9.40000	77/10/19	78/09/14
00400 PH SU	6	7.96666	.046729	.216168	.627134	.088250	8.0000	7.60000	77/10/19	78/09/14
00403 LAB PH SU	3	6.70000	.250046	.500046	.074634	.288702	7.0000	6.20000	77/11/08	78/07/11
00410 I ALK CACU3 MG/L	1	14.0000					14.0000	14.0000	78/07/11	78/07/11
00425 HCO3 ALK CACU3 MG/L	1	8.00000					8.00000	8.00000	78/09/14	78/09/14
00500 RESIDUE TOTAL MG/L	10	24.5100	63.9036	7.99398	.326152	2.52792	40.0000	14.0000	77/10/19	78/09/14
00530 RESIDUE TOT NFLT MG/L	10	2.32000	3.25511	1.80419	.777669	.570536	6.40000	.600000	77/10/19	78/09/14
00610 NH3+NH4-N TOTAL MG/L	10	.044600	.006188	.078665	1.76380	.024876	.217000	.001000	77/10/19	78/09/14
00615 NO2-N TOTAL MG/L	10	.001000	.293E-11	.000002	.001712	.541E-06	.001000	.001000	77/10/19	78/09/14
00620 NO3-N TOTAL MG/L	10	.065000	.002028	.045031	.692784	.014240	.130000	.020000	77/10/19	78/09/14
00625 TOT KJEL N MG/L	10	.605000	.075850	.275409	.455222	.087092	1.16000	.200000	77/10/19	78/09/14
00665 PHOS-TOT MG/L P	10	.012000	.000018	.004216	.351367	.001333	.020000	.010000	77/10/19	78/09/14
00940 CHLORIDE CL MG/L	1	1.10000					1.10000	1.10000	78/09/14	78/09/14
01002 ARSENIC AS, TOT UG/L	1	10.0000					10.0000	10.0000	77/10/19	77/10/19
01027 CADMIUM CD, TOT UG/L	2	5.00000	.000000	.000000		.000000	5.00000	5.00000	77/10/19	78/09/14
01034 CHROMIUM CR, TOT UG/L	1	10.0000					10.0000	10.0000	77/10/19	77/10/19
01042 COPPER CU, TOT UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/09/14
01051 LEAD PB, TOT UG/L	2	30.0000	800.000	28.2843	.942809	20.0000	50.0000	10.0000	77/10/19	78/09/14
01092 ZINC ZN, TOT UG/L	2	1.50000	.500000	.707107	.471404	.500000	2.00000	1.00000	77/10/19	78/09/14
31501 TOT COLI MFIMENDU /100ML	11	8.45454	95.8727	9.79146	1.15813	2.95224	24.0000	.000000	77/10/19	78/09/14
31616 FEC COLI MFM-FCHR /100ML	11	.545454	.272727	.522233	.957427	.157459	1.00000	.000000	77/10/19	78/09/14
31679 FECSTREP MF M-ENT /100ML	11	.636364	.654546	.809040	1.27135	.243935	2.00000	.000000	77/10/19	78/09/14
70300 RESIDUE DISS-180 C MG/L	9	18.8889	52.6113	7.25336	.384002	2.41779	26.0000	4.00000	77/10/19	78/09/14
70507 PHOS-T ORTHO MG/L P	10	.010000	.517E-10	.000007	.000719	.000002	.010000	.010000	77/10/19	78/09/14
71900 MERCURY HG, TOTAL UG/L	2	.500000	.000000	.000000		.000000	.500000	.500000	77/10/19	78/09/14

2000097  
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 PACK RIVER AT MOUTH HWY 10A  
 16017 IDAHO  
 PACIFIC NORTHWEST 1307  
 CLARK FORK-PEND OREILLE  
 21IDSURV 771222  
 0000 CLASS 00

/IYPA/AMBIT/STREAM

INDEX 1310001 007520 01310  
 MILES 0745.50 0127.40 000.00

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAN ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP	7	9.65714	63.6229	7.97640	.825958	3.01479	25.0000	1.60000	77/10/19	78/09/14
00061 STREAM FLOW, INST-CFS	2	63.0000	648.000	25.4558	.404061	18.0000	81.0000	45.0000	78/08/08	78/09/14
00076 TURB TRBDNTR	8	4.11250	10.4727	3.23616	.786908	1.14415	9.20000	.900000	77/10/19	78/09/14
00094 CONDUCTVY FIELD	4	22.2500	18.9167	4.34933	.195475	2.17466	28.0000	18.0000	77/11/08	78/05/11
00095 CONDUCTVY AT 25C	6	39.1667	677.768	26.0340	.664698	10.6283	86.0000	18.0000	77/10/19	78/09/14
00116 INTNSVE SURVEY IDENT	8	771602	.599E+06	.000000	.000000	.000000	771602	771602	77/10/19	78/09/14
00300 DU	6	10.7667	3.30268	1.81133	.168792	.741922	12.6000	8.00000	77/10/19	78/09/14
00400 PH	5	7.77999	.082092	.286517	.036827	.128134	8.10000	7.40000	77/10/19	78/09/14
00403 LAB PH	3	7.03333	.003456	.058789	.008359	.033942	7.10000	7.00000	77/11/08	78/03/09
00425 HCO3 ALK	1	13.0000					13.0000	13.0000	78/09/14	78/09/14
00430 CO3 ALK	1	.000000					.000000	.000000	78/09/14	78/09/14
00500 RESIDUE TOTAL	8	58.5250	332.948	18.2469	.311779	6.45124	88.0000	29.0000	77/10/19	78/09/14
00530 RESIDUE TOT NFLT	7	16.1714	613.202	24.7629	1.53128	9.35951	70.0000	.200000	77/10/19	78/09/14
00610 NH3+NH4-N TOTAL	8	.026250	.000676	.025999	.990424	.009192	.086000	.001000	77/10/19	78/09/14
00615 NO2-N TOTAL	7	.001429	.619E-06	.000787	.550758	.000297	.003000	.001000	77/10/19	78/09/14
00620 NO3-N TOTAL	8	.086250	.007970	.089273	1.03505	.031563	.290000	.020000	77/10/19	78/09/14
00625 TOT KJEL N	8	.503750	.041970	.204865	.406680	.072431	.800000	.200000	77/10/19	78/09/14
00665 PHOS-TOT	8	.035000	.000543	.023299	.665694	.008238	.070000	.010000	77/10/19	78/09/14
00940 CHLORIDE CL	1	1.10000					1.10000	1.10000	78/09/14	78/09/14
01002 ARSENIC AS, TOT	2	10.0000	.000000	.000000	.000000	.000000	10.0000	10.0000	77/10/19	78/02/07
01027 CADMIUM CD, TOT	3	6.66667	8.33340	2.88676	.433014	1.66667	10.0000	5.00000	77/10/19	78/09/14
01034 CHROMIUM CR, TOT	2	10.0000	.000000	.000000	.000000	.000000	10.0000	10.0000	77/10/19	78/02/07
01042 COPPER CU, TOT	3	10.0000	.000000	.000000	.000000	.000000	10.0000	10.0000	77/10/19	78/09/14
01051 LEAD PB, TOT	3	23.3333	533.334	23.0940	.989744	13.3333	50.0000	10.0000	77/10/19	78/09/14
01092 ZINC ZN, TOT	3	2.00000	3.00000	1.73205	.866025	1.00000	4.00000	1.00000	77/10/19	78/09/14
31501 TOT COLI MFIMENDU	8	45.8750	3946.41	62.8205	1.36938	22.2104	180.000	4.00000	77/10/19	78/09/14
31616 FEC COLI MFM-FCBR	8	6.50000	184.571	13.5857	2.09011	4.80327	40.0000	.000000	77/10/19	78/09/14
31679 FECSTREP MF M-ENT	8	8.87500	70.9821	8.42509	.949306	2.97872	28.0000	2.00000	77/10/19	78/09/14
70300 RESIDUE DISS-180 C	6	36.0000	155.200	12.4579	.346054	5.08593	49.0000	19.0000	77/10/19	78/09/14
70507 PHOS-T ORTHO	8	.010000	.665E-10	.000008	.000816	.000003	.010000	.010000	77/10/19	78/09/14
71900 MERCURY HG, TOTAL	3	.500000	.000000	.000000	.000000	.000000	.500000	.500000	77/10/19	78/09/14

2000098  
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 CLARK FURK-PEND UREILLE  
 2110SURV 771222  
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 007520 01310  
 MILES 0745.50 0127.40 018.00

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP	9	5.91111	18.0411	4.24749	.718560	1.41583	13.0000	1.40000	77/10/19	78/07/11
00061 STREAM FLOW, INST-CFS	8	476.375	273161	522.648	1.09713	184.784	1305.00	.000000	77/10/19	78/06/07
00076 TURB TRBIDMTR HACH FTU	8	2.95000	2.31716	1.52222	.516008	.538187	5.30000	1.50000	77/10/19	78/07/11
00094 CONDUCTIVY FIELD MICROMHU	5	20.2000	41.2002	6.41874	.317759	2.87055	28.0000	11.0000	78/01/23	78/07/11
00095 CONDUCTIVY AT 25C MICROMHU	7	29.2857	186.572	13.6591	.466410	5.16267	45.0000	11.0000	77/10/19	78/07/11
00116 INTNSVE SURVEY IDENT	10	771602	.699E+06	.000000	.000000	.000000	771602	771602	77/10/19	78/07/11
00300 DU MG/L	7	11.5429	1.03625	1.01797	.088190	.384755	13.0000	10.2000	77/10/19	78/07/11
00400 PH SU	4	8.00000	.486654	.697606	.087201	.348803	8.60000	7.30000	77/10/19	78/06/07
00403 LAB PH SU	3	6.70000	.210037	.458298	.068403	.264599	7.10000	6.20000	77/11/08	78/07/11
00410 T ALK CACU3 MG/L	1	12.0000					12.0000	12.0000	78/07/11	78/07/11
00500 RESIDUE TOTAL MG/L	8	39.9500	60.7528	7.79441	.195104	2.75574	52.0000	30.0000	77/10/19	78/07/11
00530 RESIDUE TOT NFLT MG/L	7	9.42857	93.5491	9.67208	1.02583	3.65570	28.0000	.200000	77/10/19	78/07/11
00610 NH3+NH4- N TOTAL MG/L	8	.020625	.000943	.030715	1.48921	.010859	.092000	.001000	77/10/19	78/07/11
00615 NO2-N TOTAL MG/L	7	.001000	.288E-11	.000002	.001697	.641E-06	.001000	.001000	77/10/19	78/07/11
00620 NO3-N TOTAL MG/L	8	.026250	.000312	.017678	.673435	.006250	.070000	.020000	77/10/19	78/07/11
00625 TOT KJEL N MG/L	8	.617500	.241107	.491027	.795185	.173604	1.73000	.140000	77/10/19	78/07/11
00665 PHOS-TOT MG/L P	8	.022500	.000250	.015811	.702729	.005590	.050000	.010000	77/10/19	78/07/11
01002 ARSENIC AS,TOT UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/02/07
01027 CADMIUM CO,TOT UG/L	2	9.50000	40.5000	6.36396	.669891	4.50000	14.0000	5.00000	77/10/19	78/02/07
01034 CHROMIUM CR,TOT UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/02/07
01042 COPPER CU,TOT UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/02/07
01051 LEAD PB,TOT UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/02/07
01092 ZINC ZN,TOT UG/L	2	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/10/19	78/02/07
31501 TOT COLI MFIMENDD /100ML	9	36.1111	2865.11	53.5267	1.48228	17.8422	170.000	.000000	77/10/19	78/07/11
31616 FEC COLI MFM-FCBR /100ML	9	4.55556	32.2778	5.68135	1.24713	1.89378	15.0000	.000000	77/10/19	78/07/11
31679 FECSTREP MF M-FNT /100ML	9	5.44444	92.5278	9.61914	1.76678	3.20638	29.0000	.000000	77/10/19	78/07/11
70300 RESIDUE DISS-180 C MG/L	7	22.0000	68.0000	8.24621	.374828	3.11677	31.0000	7.00000	77/10/19	78/07/11
70507 PHOS-T ORTHO MG/L P	8	.010000	.665E-10	.000008	.000816	.000003	.010000	.010000	77/10/19	78/07/11
71900 MERCURY HG,TOTAL UG/L	2	1.95000	4.20500	2.05061	1.05159	1.45000	3.40000	.500000	77/10/19	78/02/07

2000099  
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 PACIFIC NORTHWEST 1307  
 CLARK FORK-PEND OREILLE  
 211DSURV 771222  
 0000 CLASS 00

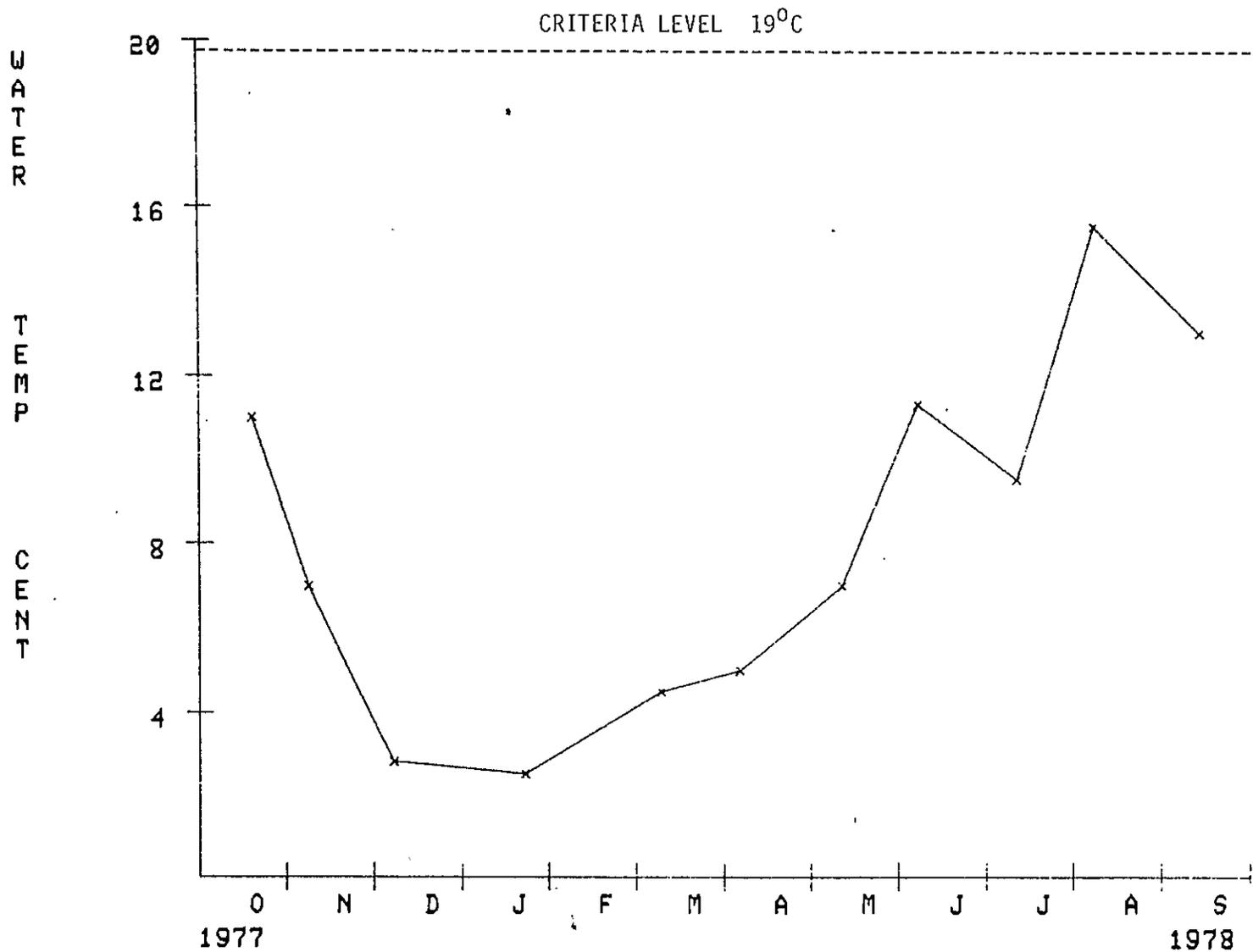
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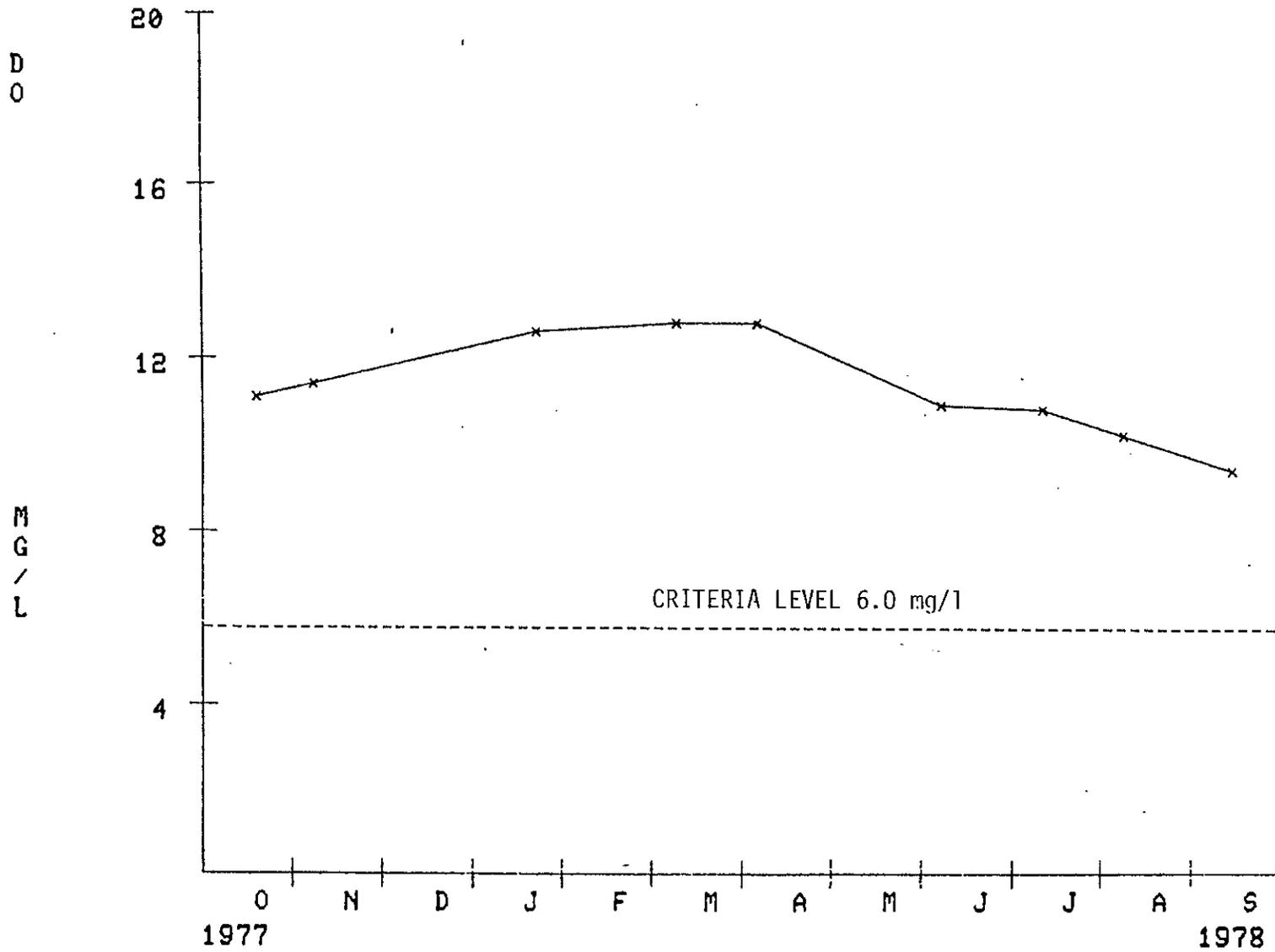
PARAMETER	TEMP	CENT	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER			7	12.5000	36.2500	6.02080	.481664	2.27565	23.0000	4.00000	77/10/19	78/09/14
00061 STREAM	FLUX,	INST-CFS	6	.650000	2.53500	1.59217	2.44949	.650000	3.90000	.000000	77/12/15	78/09/14
00076 TURB	TRBIDMTR	HACH FTU	7	3.68571	8.94481	2.99079	.811456	1.13041	8.00000	1.10000	77/10/19	78/09/14
00095 CONDUCTIVY	AT 25C	MICROMHU	6	93.0000	3437.20	58.6276	.630405	23.9346	183.000	21.0000	77/10/19	78/09/14
00116 INTNSVE	SURVEY	IDENT	12	771602	.667E+06	.000000	.000000	.000000	771602	771602	77/10/19	78/09/14
00300 DU		MG/L	6	10.00000	2.04805	1.43110	.143110	.584244	12.0000	8.20000	77/10/19	78/09/14
00400 PH		SU	5	7.65999	.083069	.288217	.037626	.128894	8.10000	7.40000	77/10/19	78/09/14
00403 LAB	PH	SU	2	6.95000	.125000	.353553	.050871	.250000	7.20000	6.70000	77/11/08	78/07/11
00410 T ALK	CACU3	MG/L	1	21.0000				21.0000	21.0000	21.0000	78/07/11	78/07/11
00425 HCO3 ALK	CACU3	MG/L	1	38.0000				38.0000	38.0000	38.0000	78/09/14	78/09/14
00430 CO3 ALK	CACU3	MG/L	1	.000000				.000000	.000000	.000000	78/09/14	78/09/14
00500 RESIDUE	TOTAL	MG/L	7	69.7143	791.900	28.1409	.403660	10.6362	118.000	32.0000	77/10/19	78/09/14
00530 RESIDUE	TOT NFLT	MG/L	7	7.65714	136.336	11.6763	1.52489	4.41323	34.0000	1.00000	77/10/19	78/09/14
00610 NH3+NH4-	N TOTAL	MG/L	7	.020857	.000363	.019056	.913661	.007203	.053000	.004000	77/10/19	78/09/14
00615 NO2-N	TOTAL	MG/L	7	.001143	.142E-06	.000378	.330723	.000143	.002000	.001000	77/10/19	78/09/14
00620 NO3-N	TOTAL	MG/L	7	.032857	.000690	.026277	.799732	.009932	.090000	.020000	77/10/19	78/09/14
00625 TOT KJEL	N	MG/L	7	.660000	.061500	.247992	.375746	.093732	.910000	.200000	77/10/19	78/09/14
00665 PHOS-TOT		MG/L P	7	.018571	.000114	.010690	.575641	.004041	.040000	.010000	77/10/19	78/09/14
00940 CHLORIDE	CL	MG/L	1	1.10000				1.10000	1.10000	1.10000	78/09/14	78/09/14
01002 ARSENIC	AS,TOT	UG/L	1	10.0000				10.0000	10.0000	10.0000	77/10/19	77/10/19
01027 CADMIUM	CD,TOT	UG/L	2	5.00000	.000000	.000000		.000000	5.00000	5.00000	77/10/19	78/09/14
01034 CHROMIUM	CR,TOT	UG/L	1	10.0000				10.0000	10.0000	10.0000	77/10/19	77/10/19
01042 COPPER	CU,TOT	UG/L	2	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/19	78/09/14
01051 LEAD	PB,TOT	UG/L	2	30.0000	800.000	28.2843	.942809	20.0000	50.0000	10.0000	77/10/19	78/09/14
01092 ZINC	ZN,TOT	UG/L	2	2.00000	2.00000	1.41421	.707107	1.00000	3.00000	1.00000	77/10/19	78/09/14
31501 TOT COLI	MFIMENDU	/100ML	7	39.8571	3232.14	56.8520	1.42639	21.4880	160.000	2.00000	77/10/19	78/09/14
31616 FEC COLI	MFH-FCBR	/100ML	7	10.7143	77.2382	8.78852	.820262	3.32175	25.0000	.000000	77/10/19	78/09/14
31679 FECSTREP	MF M-ENT	/100ML	7	12.4286	136.952	11.7027	.941594	4.42319	36.0000	3.00000	77/10/19	78/09/14
70300 RESIDUE	DISS-180	C MG/L	5	44.2000	982.201	31.3401	.709052	14.0157	96.0000	18.0000	77/10/19	78/09/14
70507 PHOS-T	ORTHU	MG/L P	7	.010000	.776E-10	.000009	.000881	.000003	.010000	.010000	77/10/19	78/09/14
71900 MERCURY	HG,TOTAL	UG/L	2	.500000	.000000	.000000		.000000	.500000	.500000	77/10/19	78/09/14

GRAPHICS

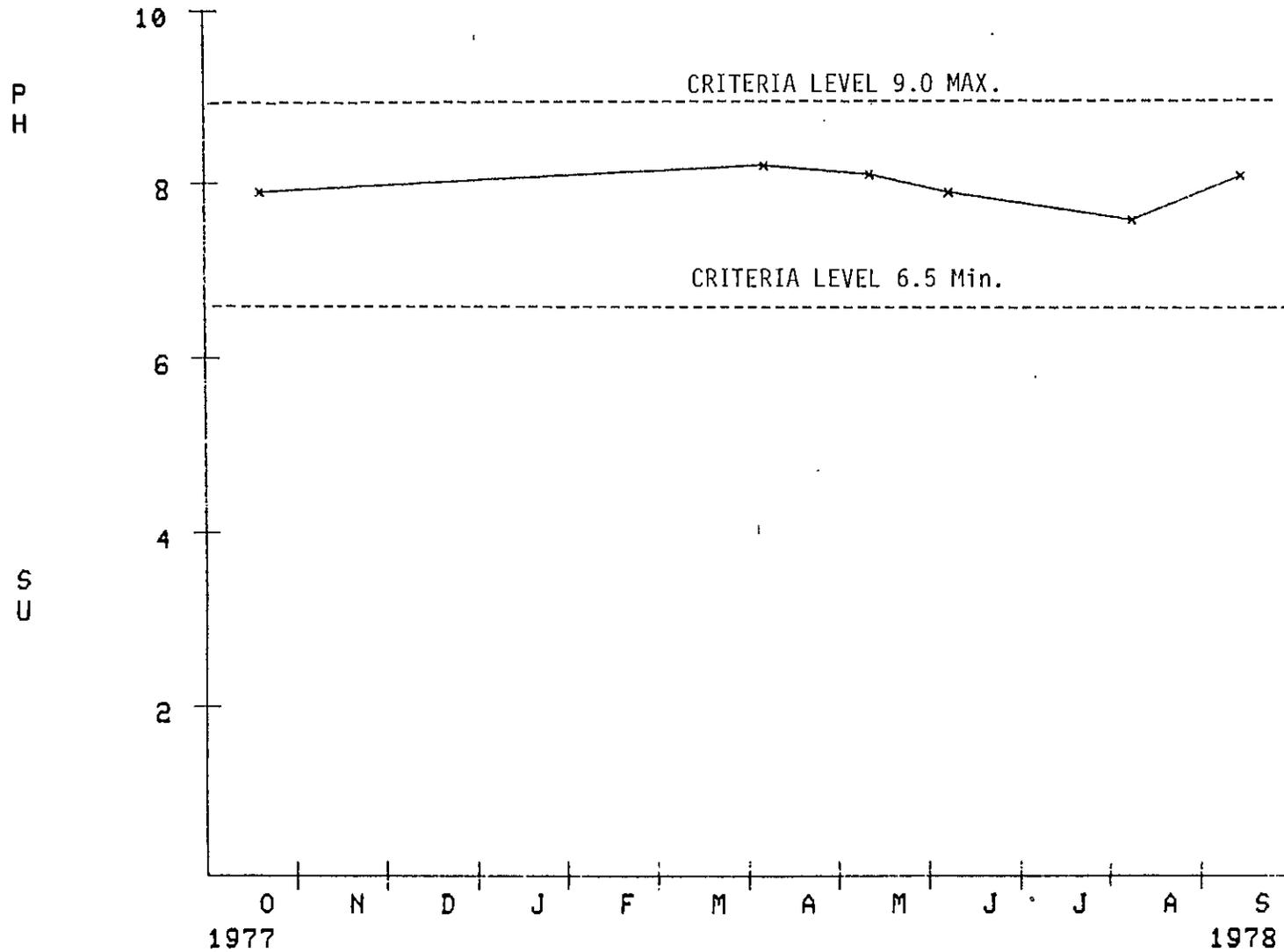
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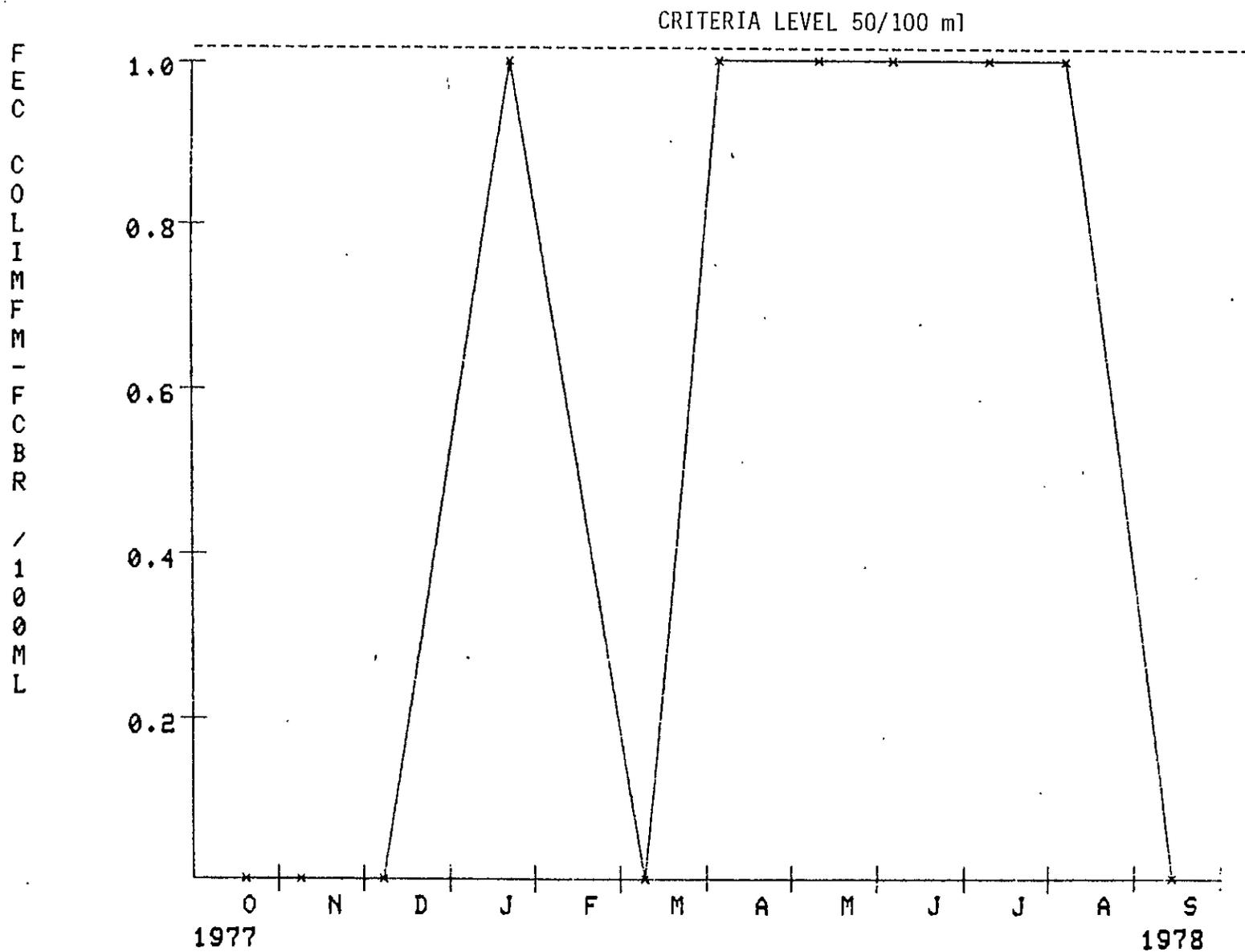
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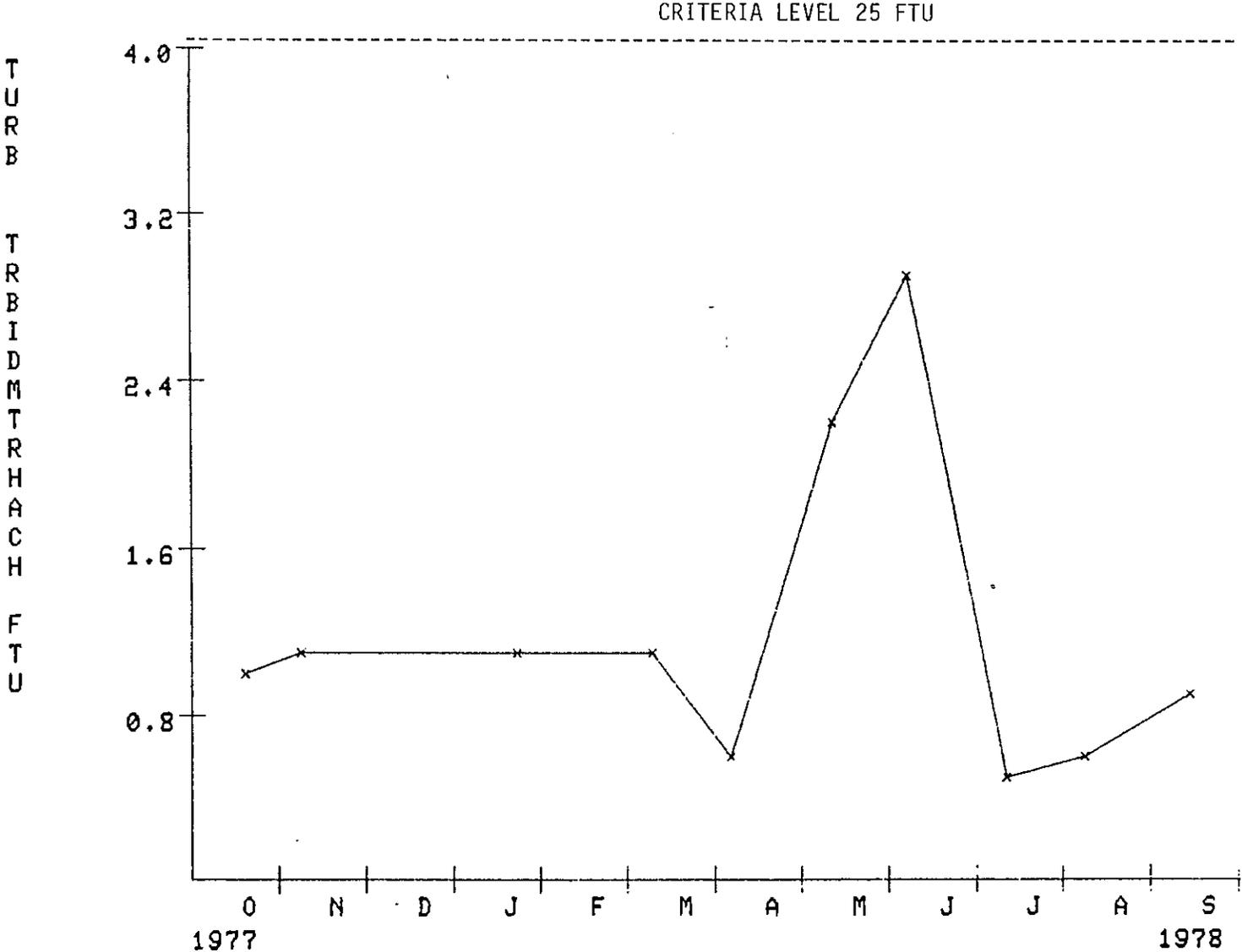
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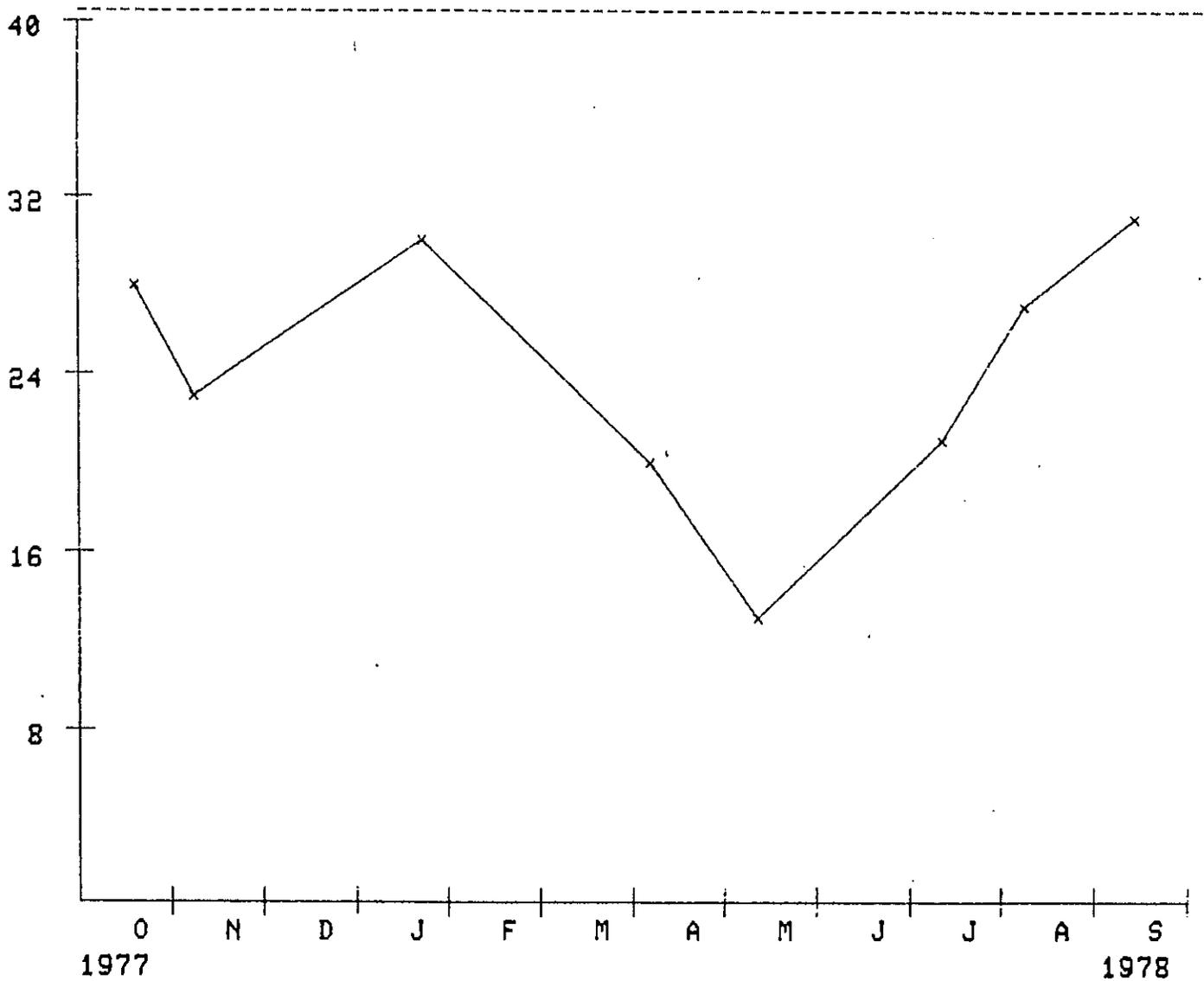
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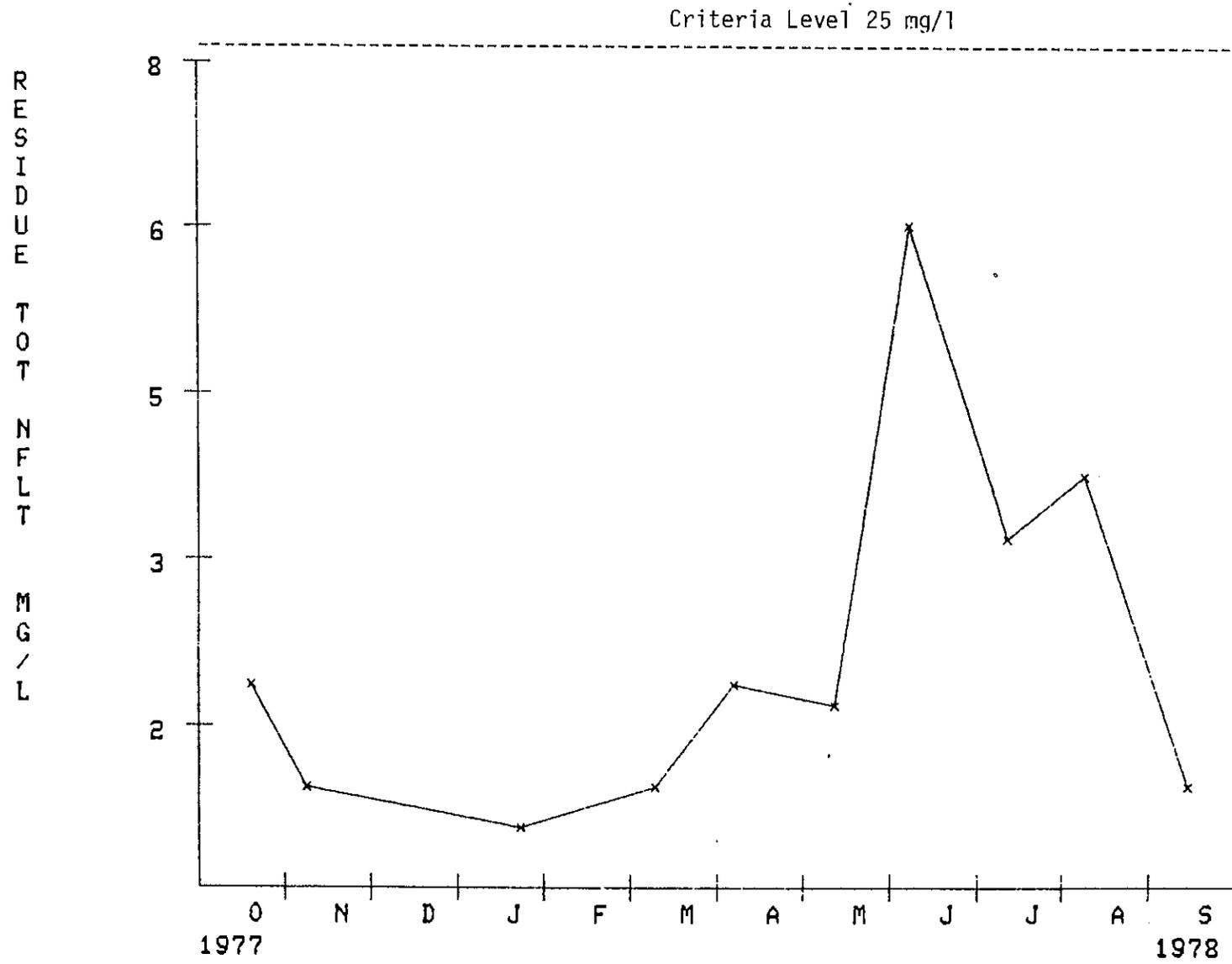
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LIGHTNING CREEK AT MOUTH HWY 10A

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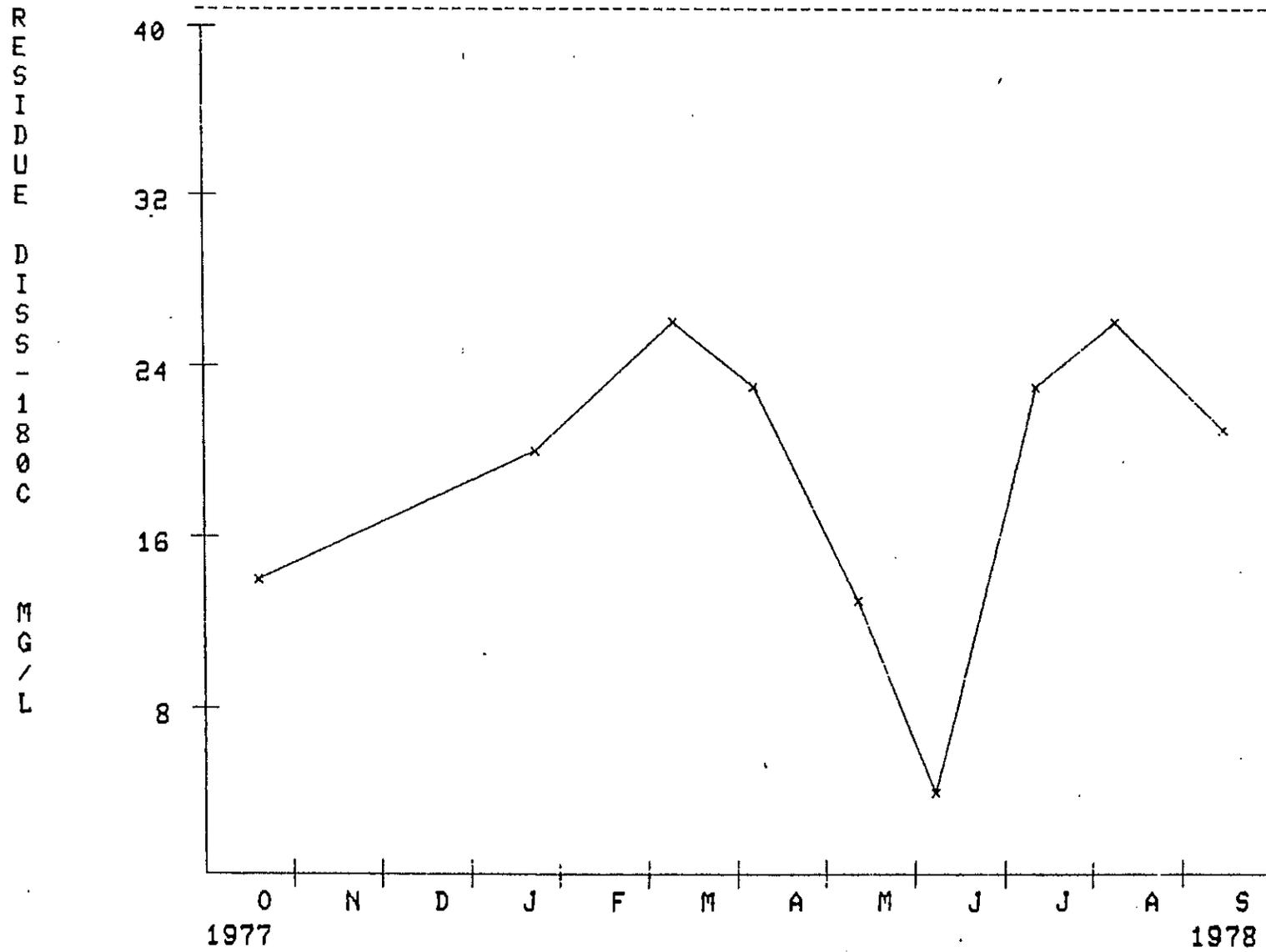


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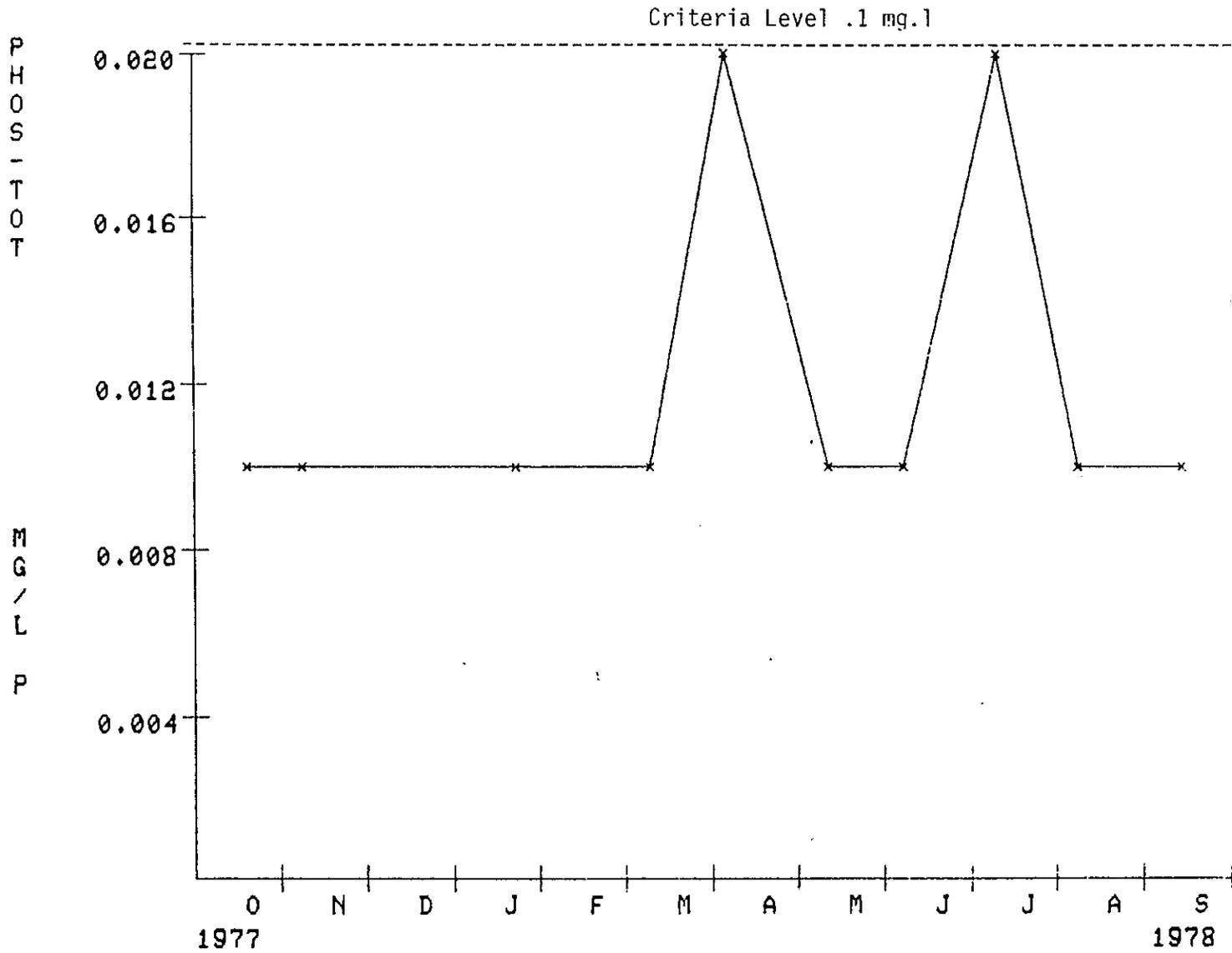


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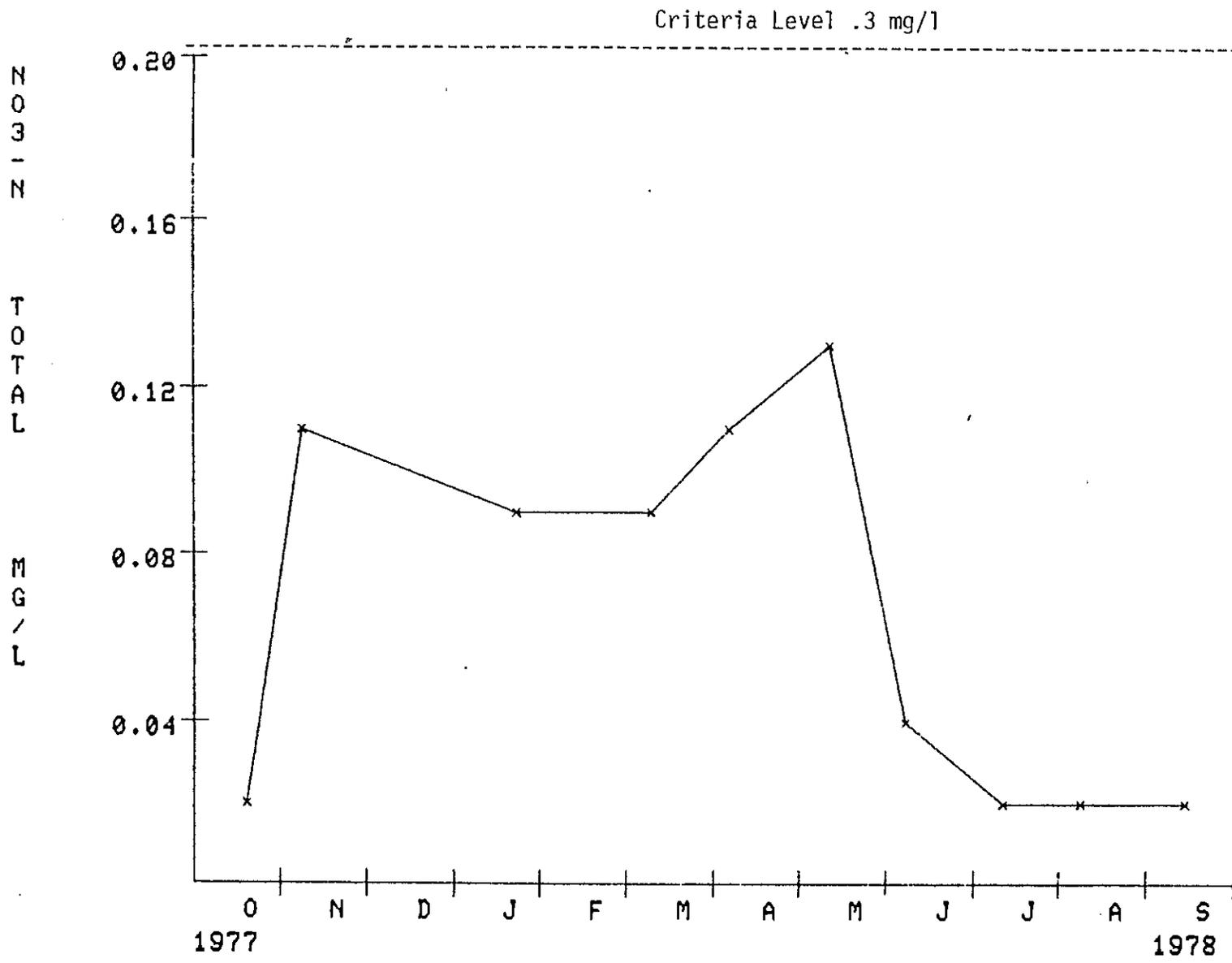
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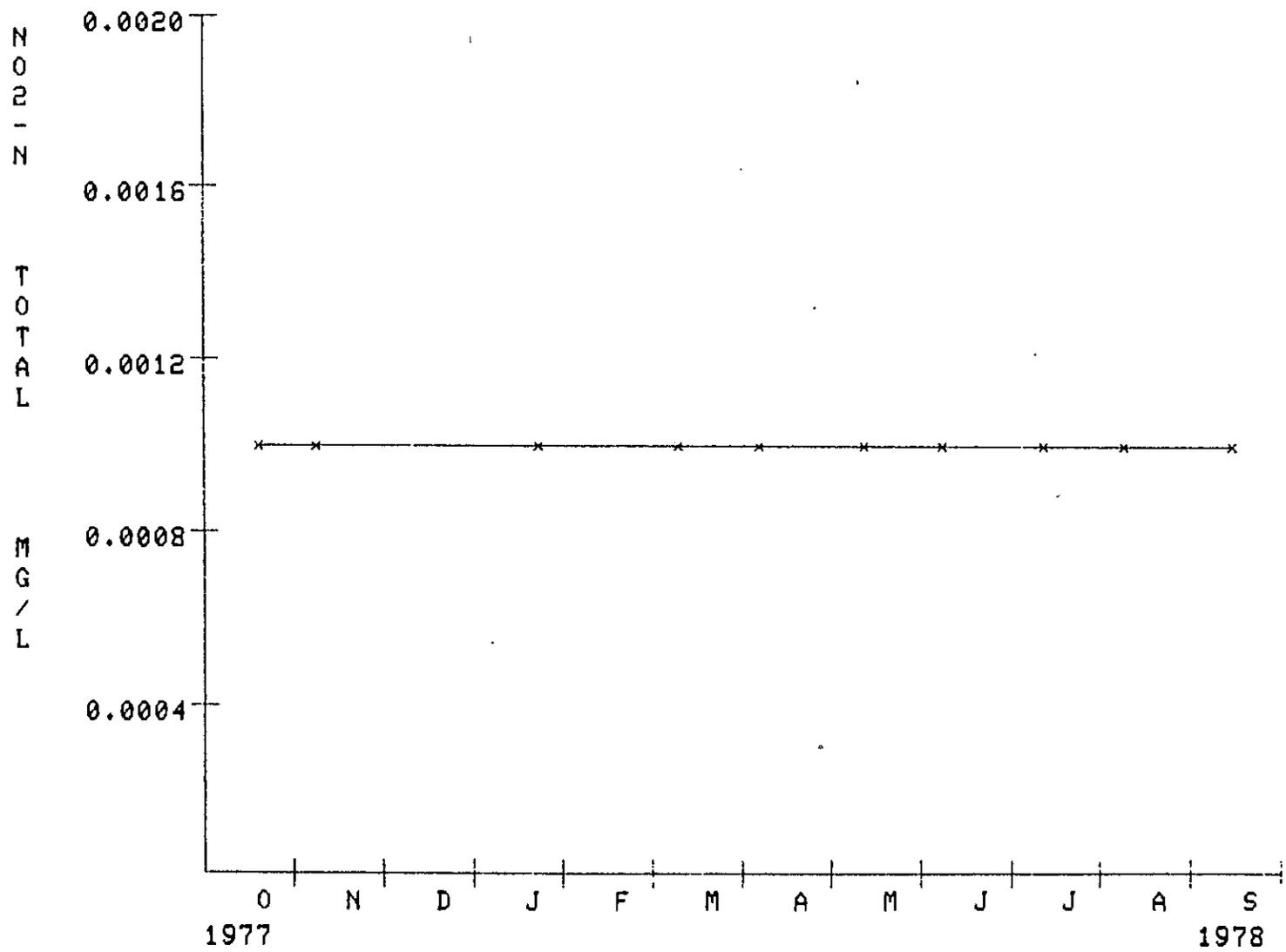
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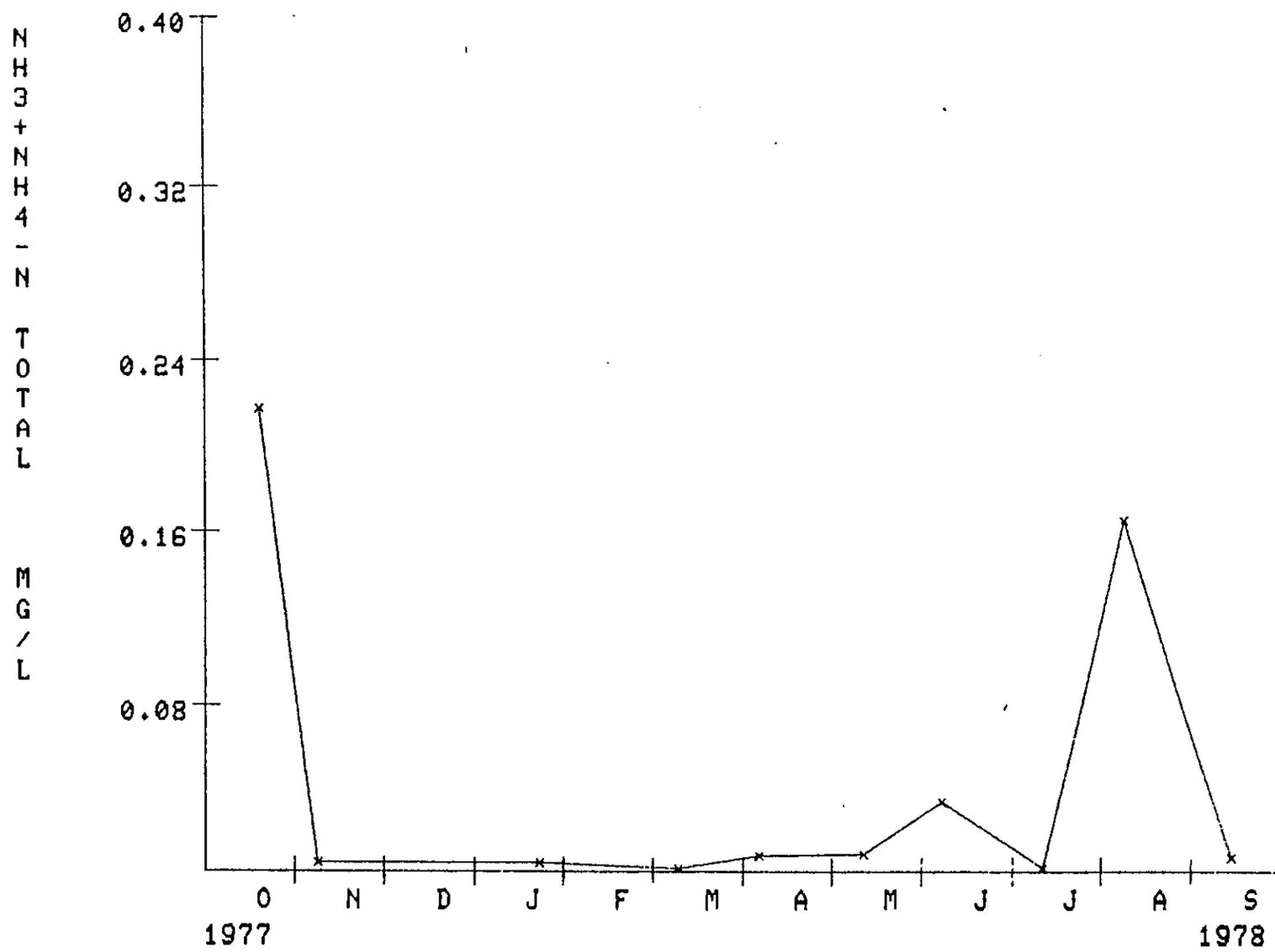
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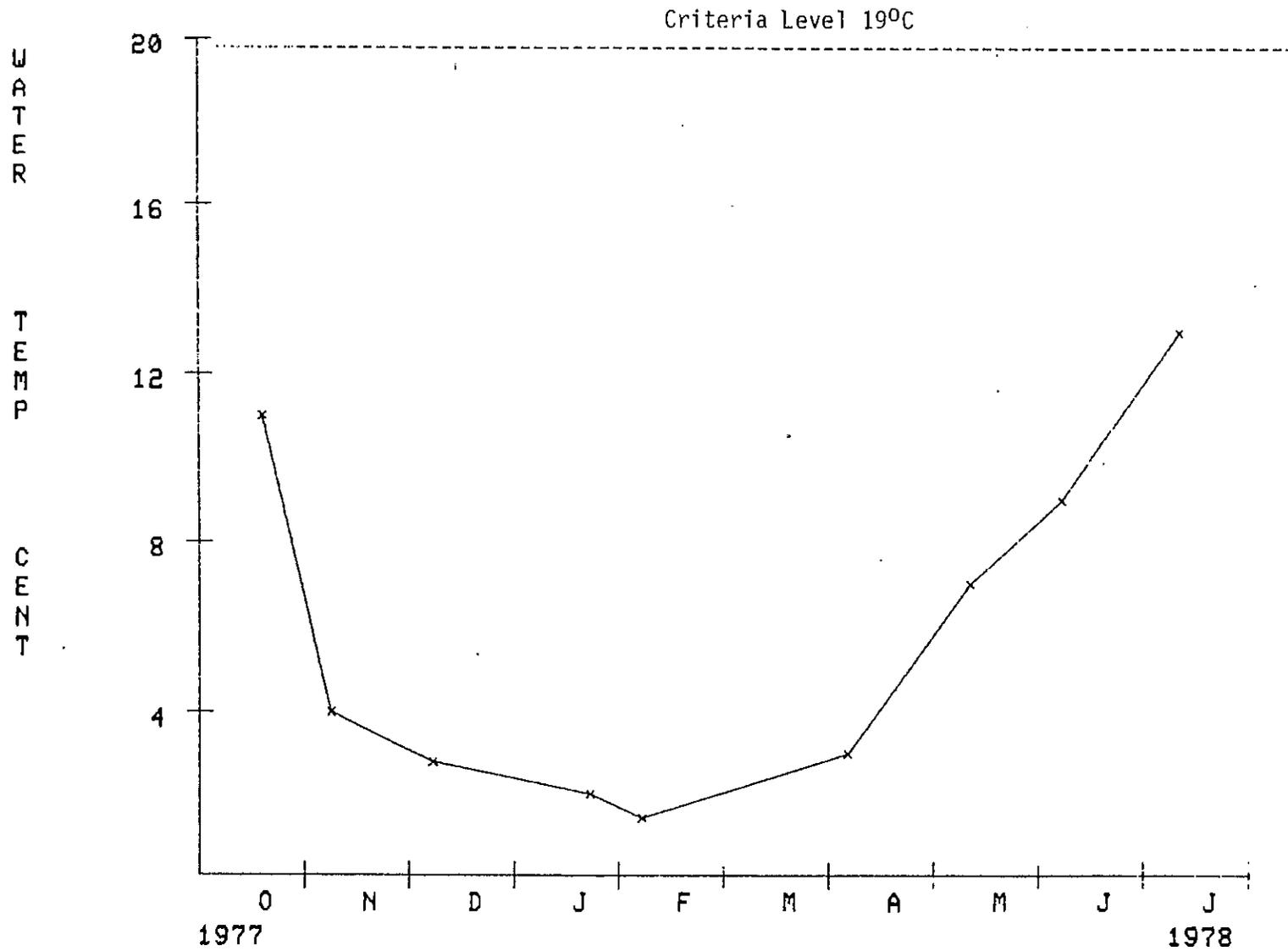
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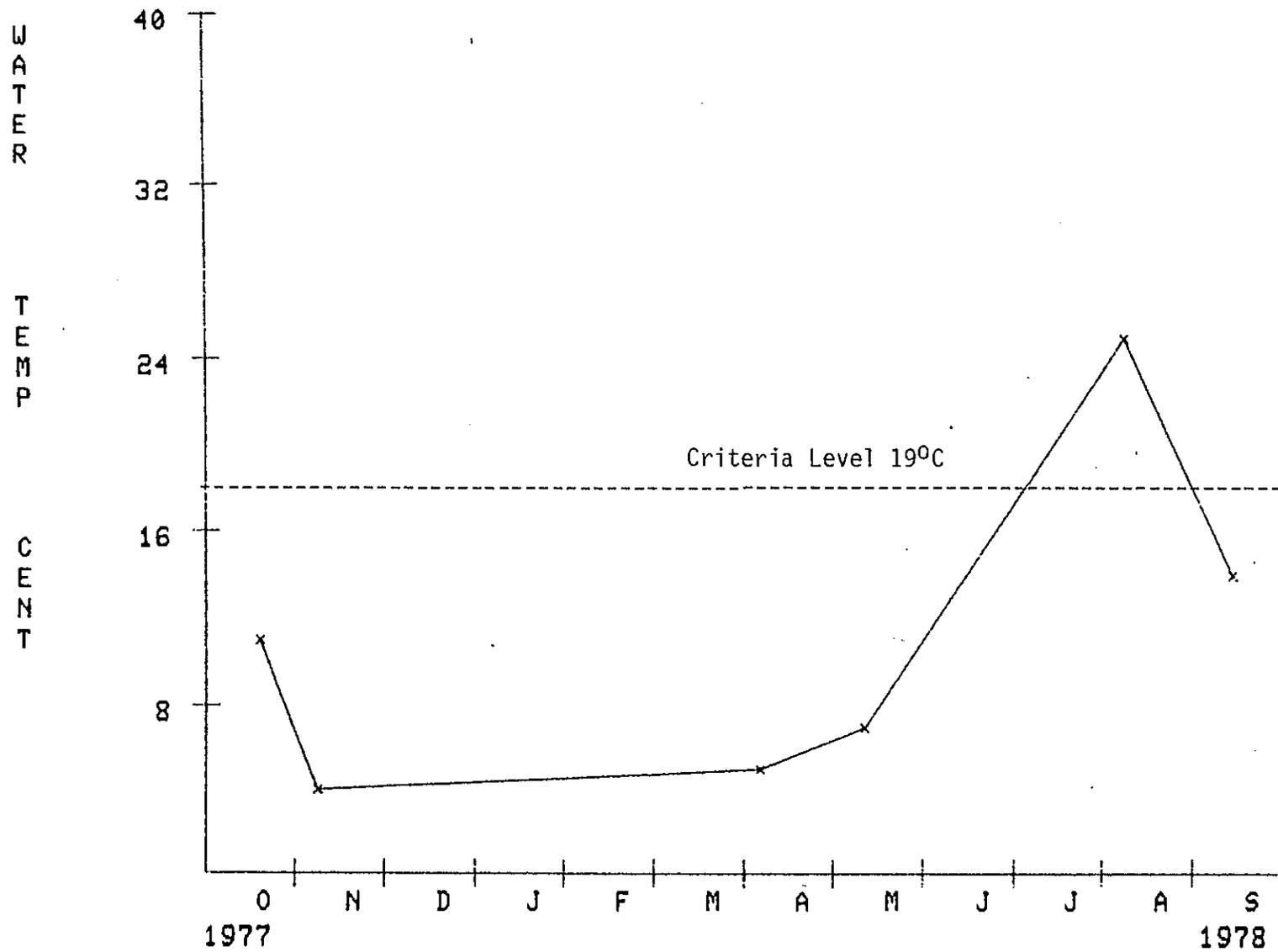
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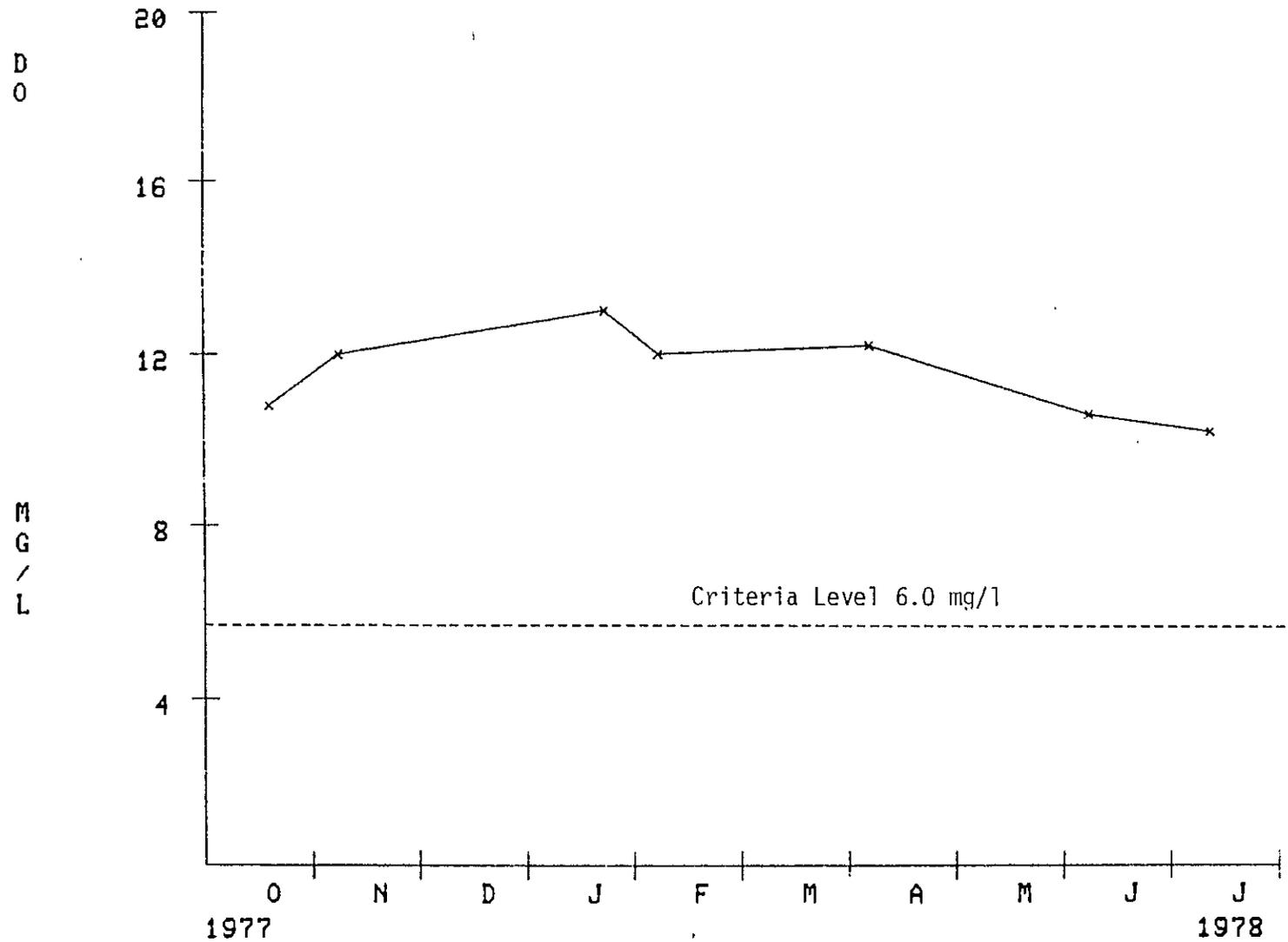
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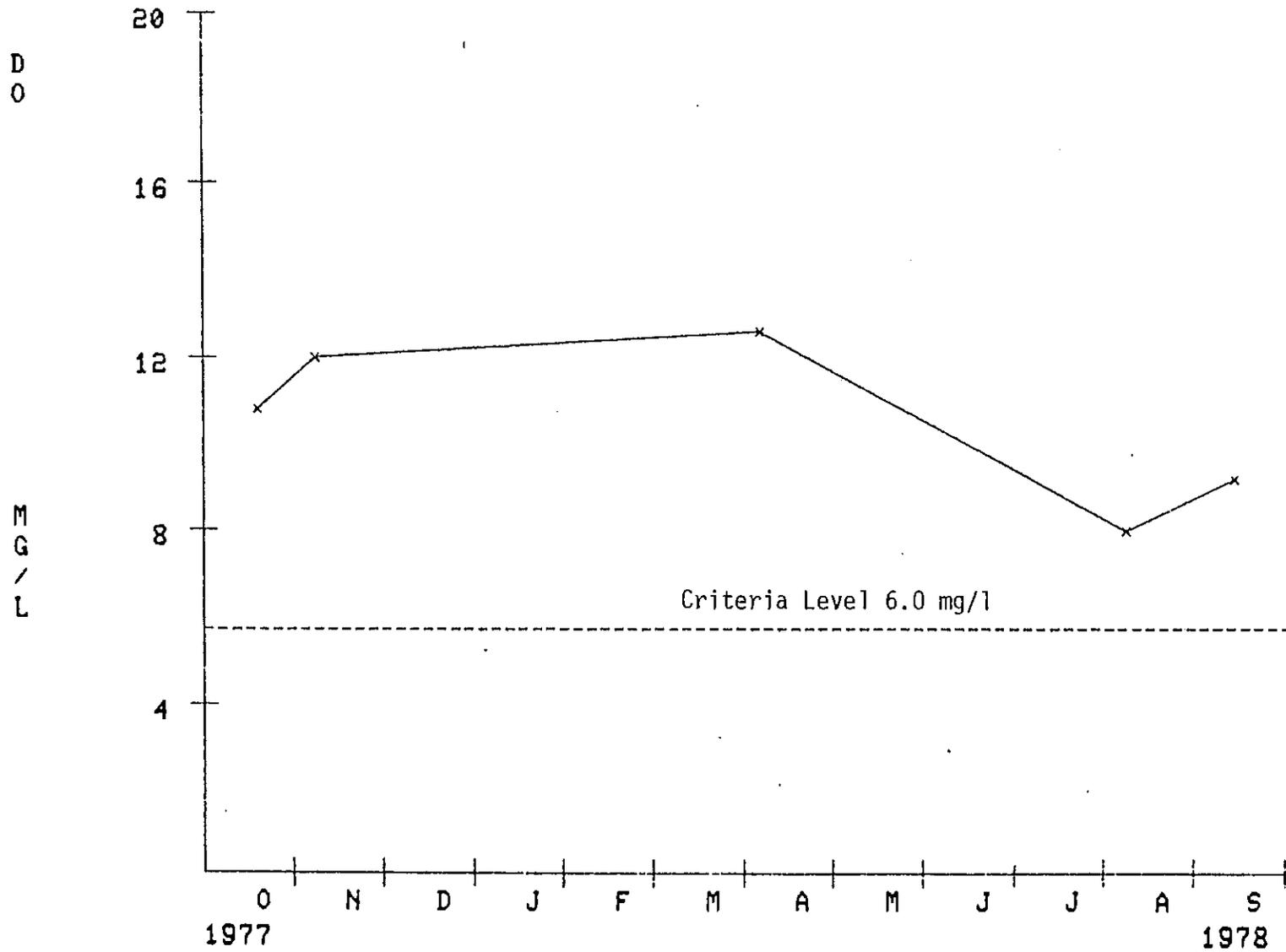
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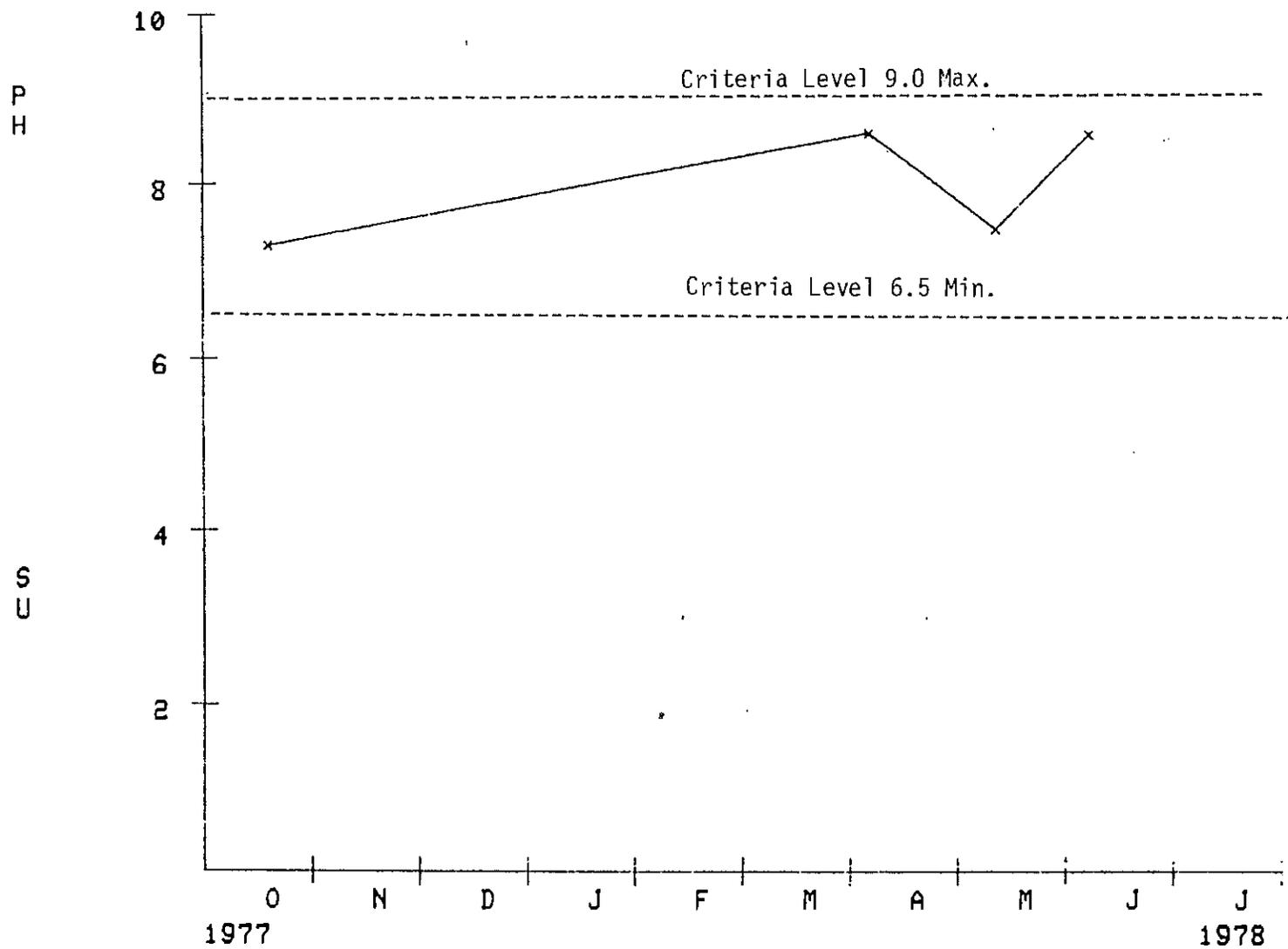
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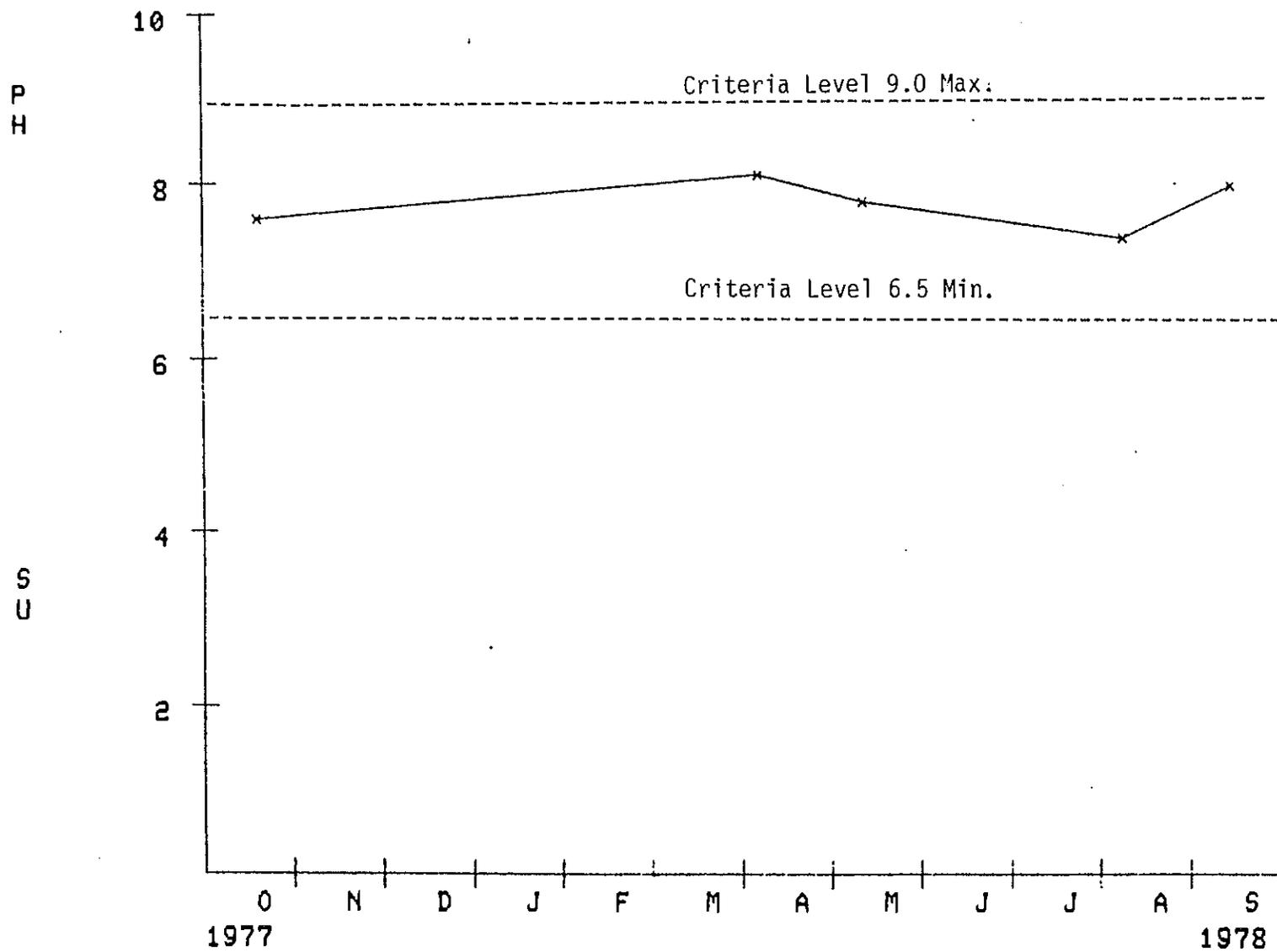
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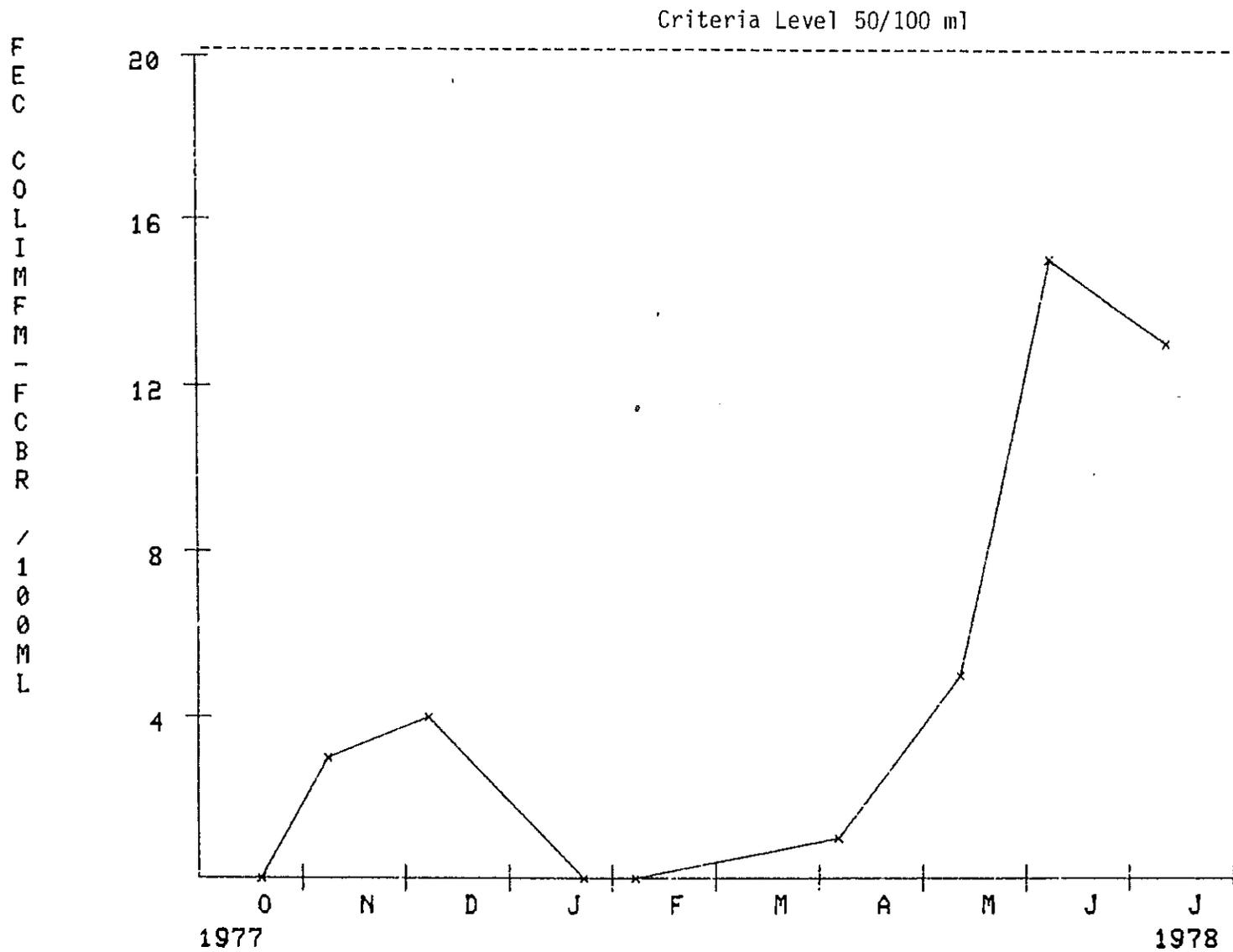
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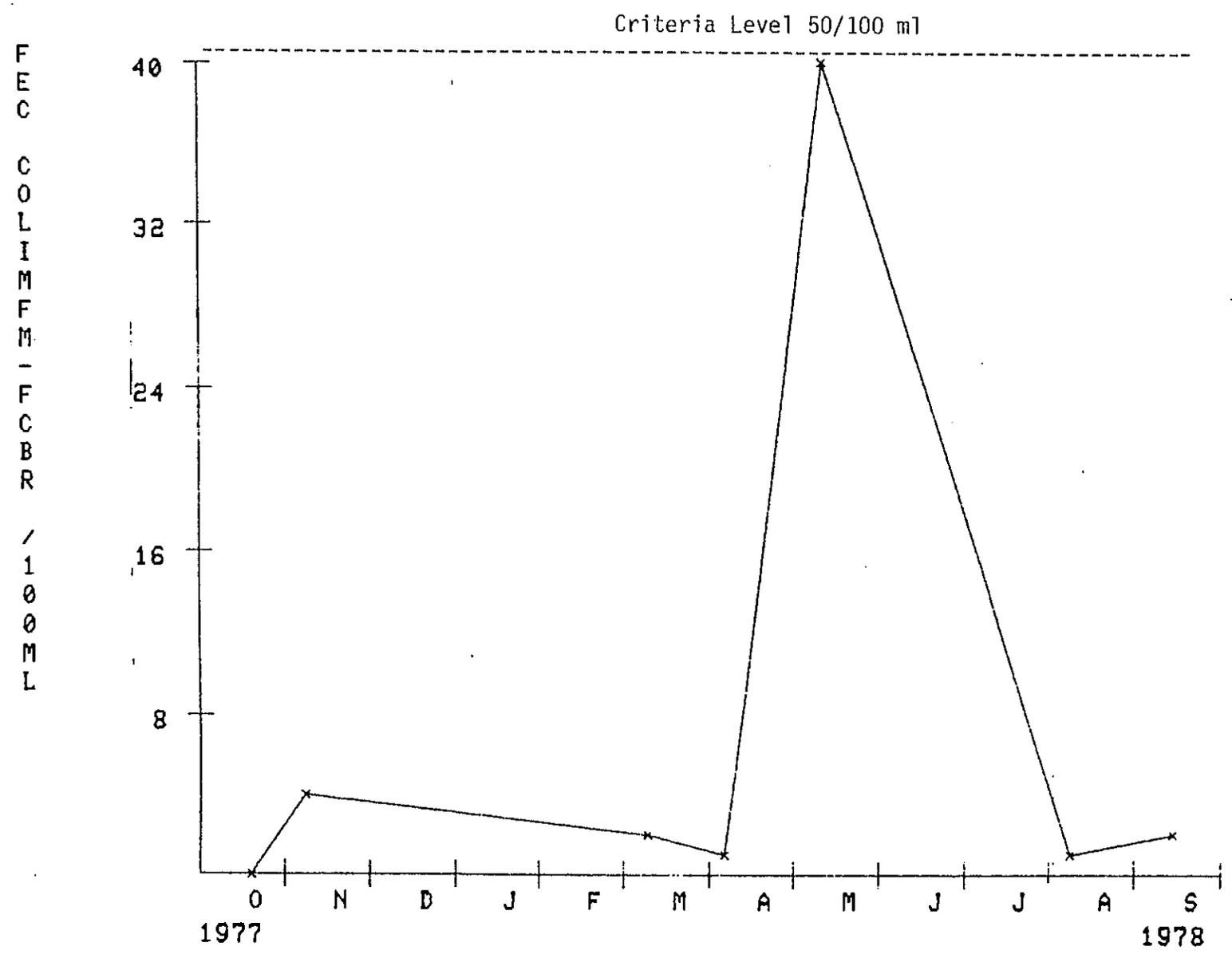
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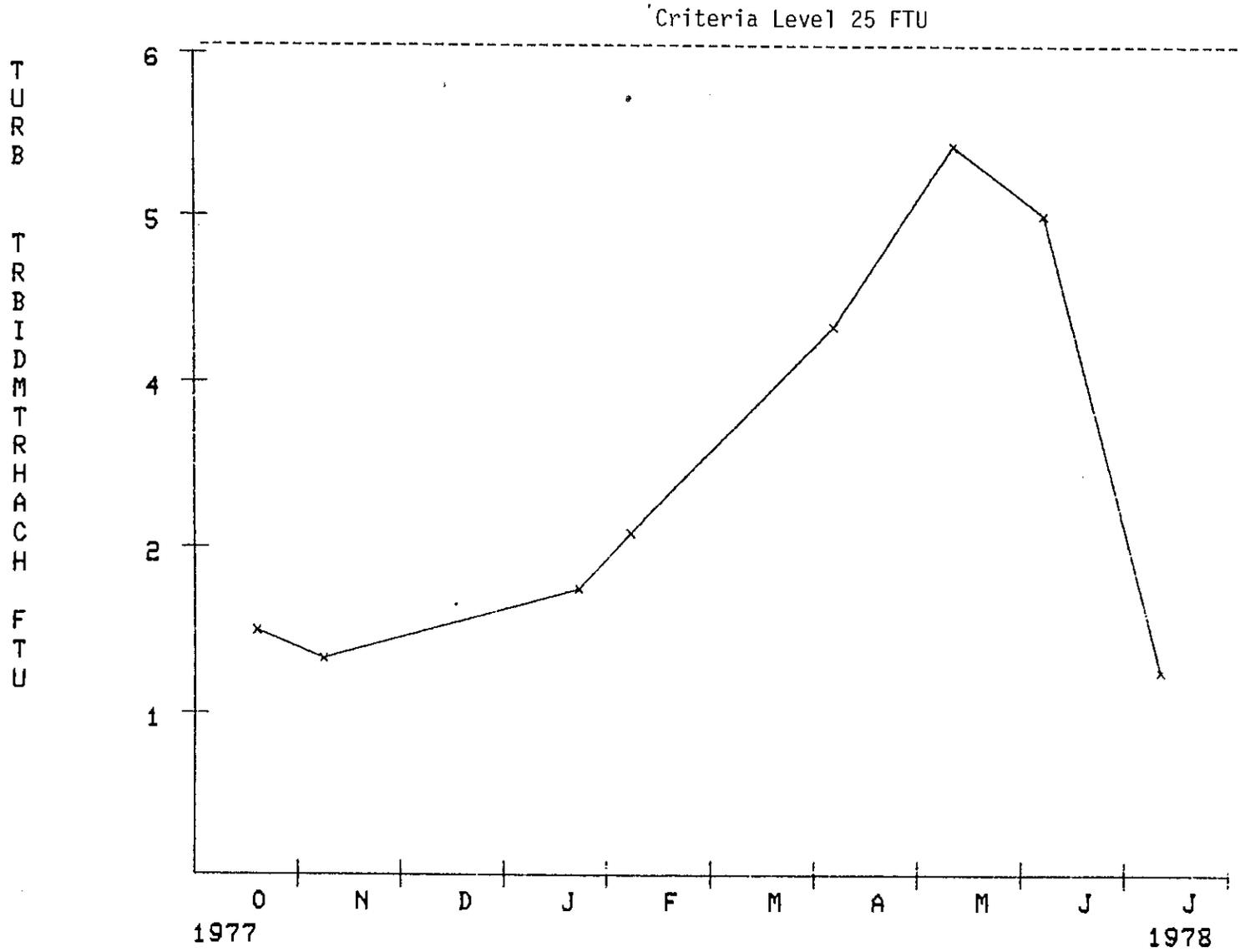
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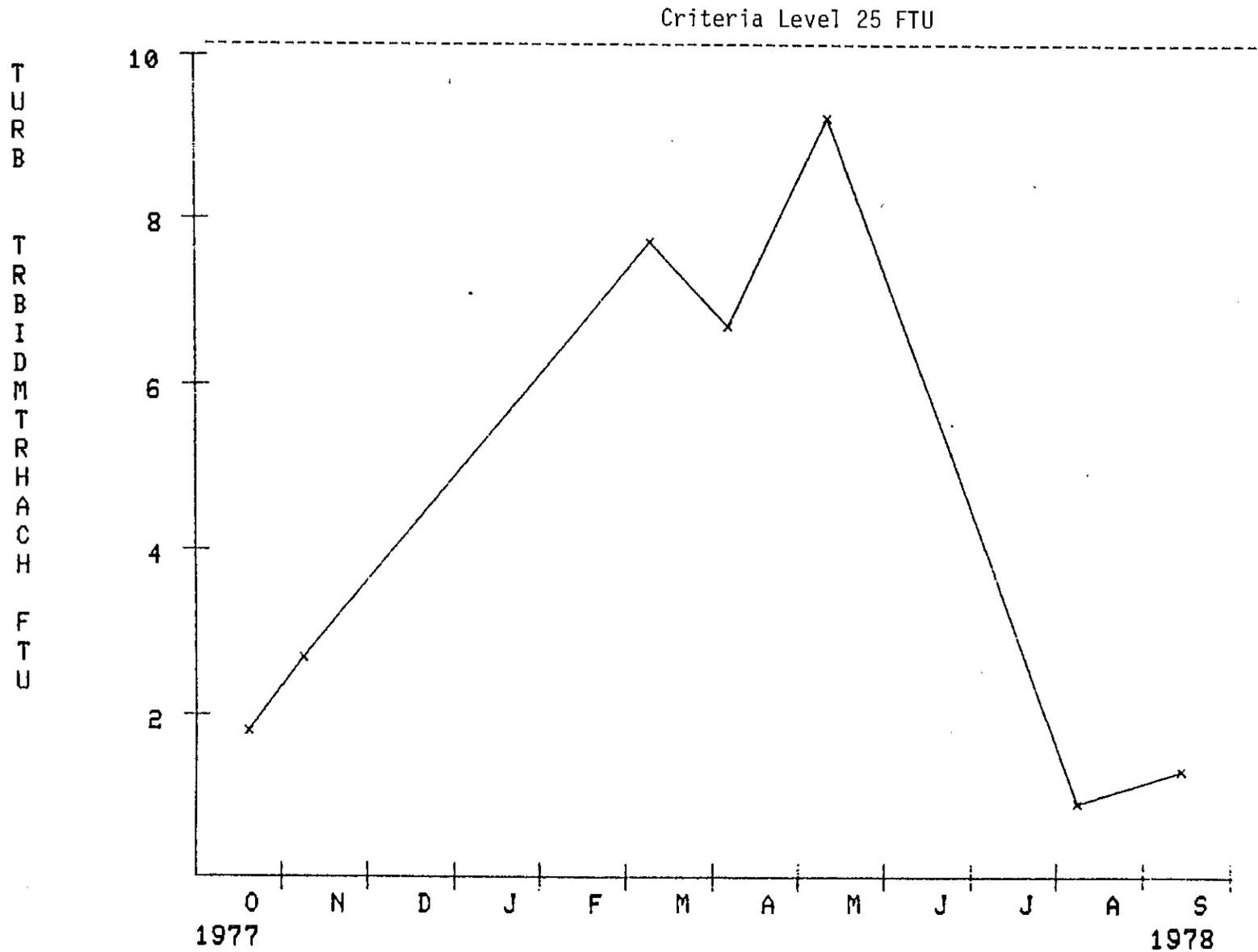
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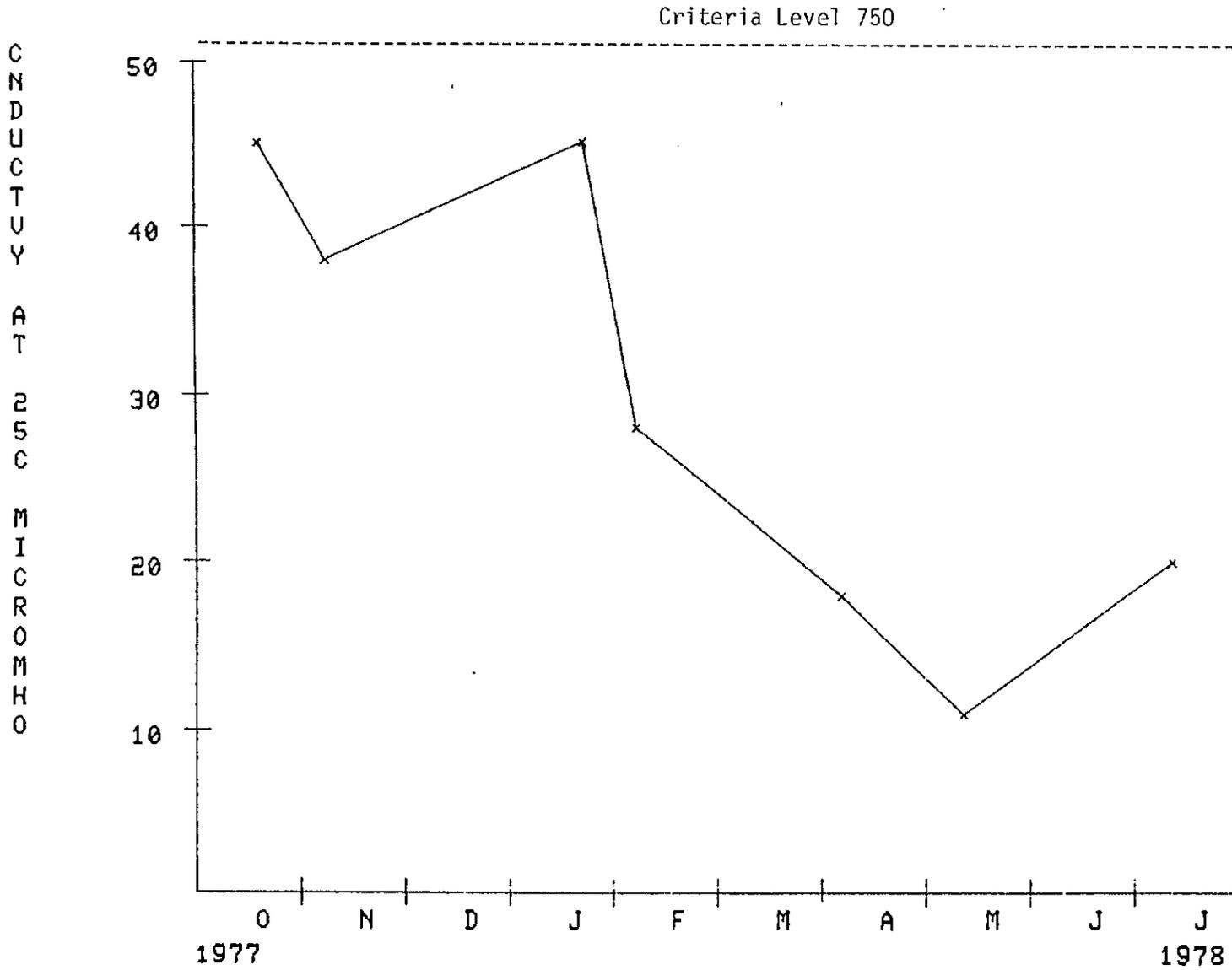
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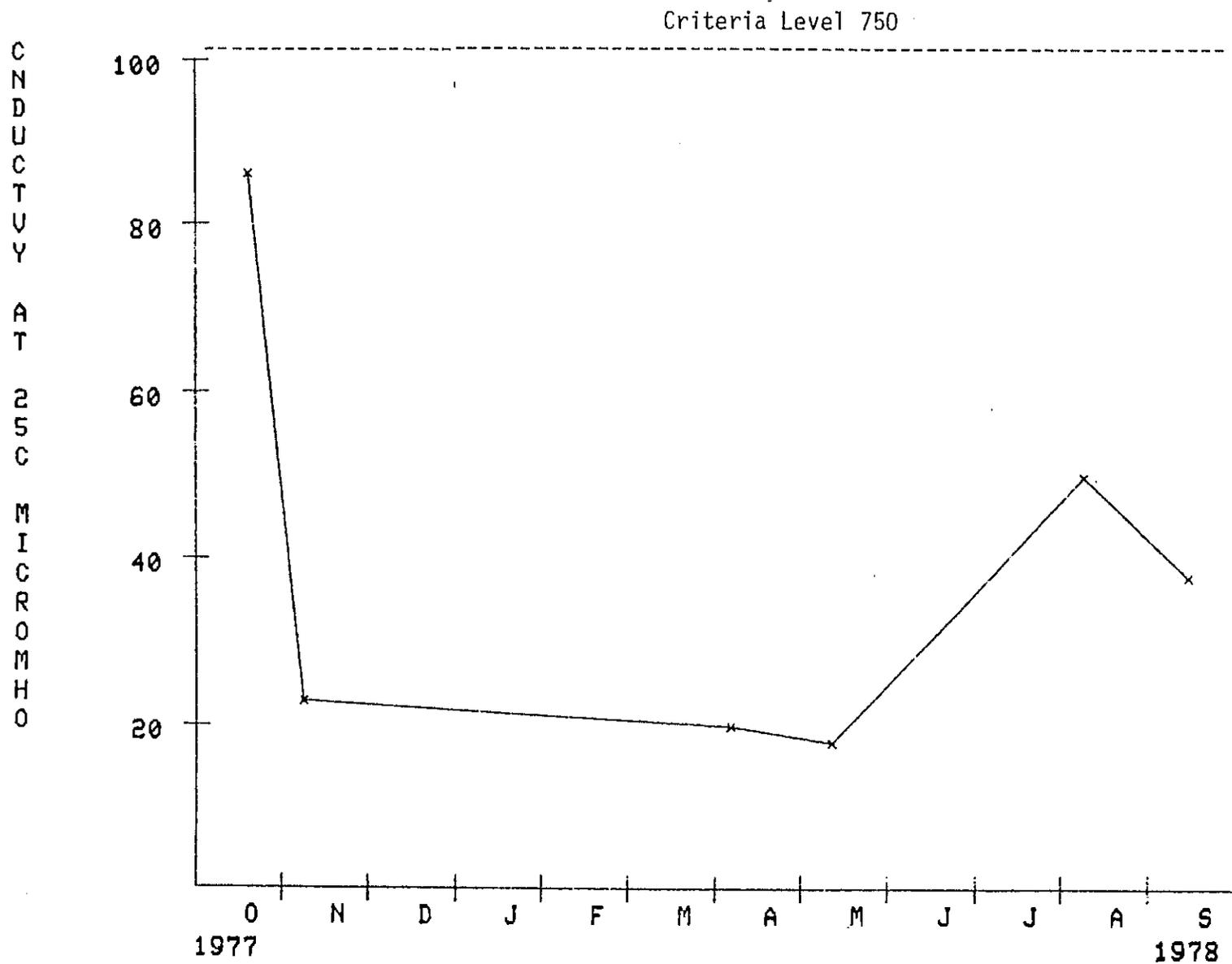
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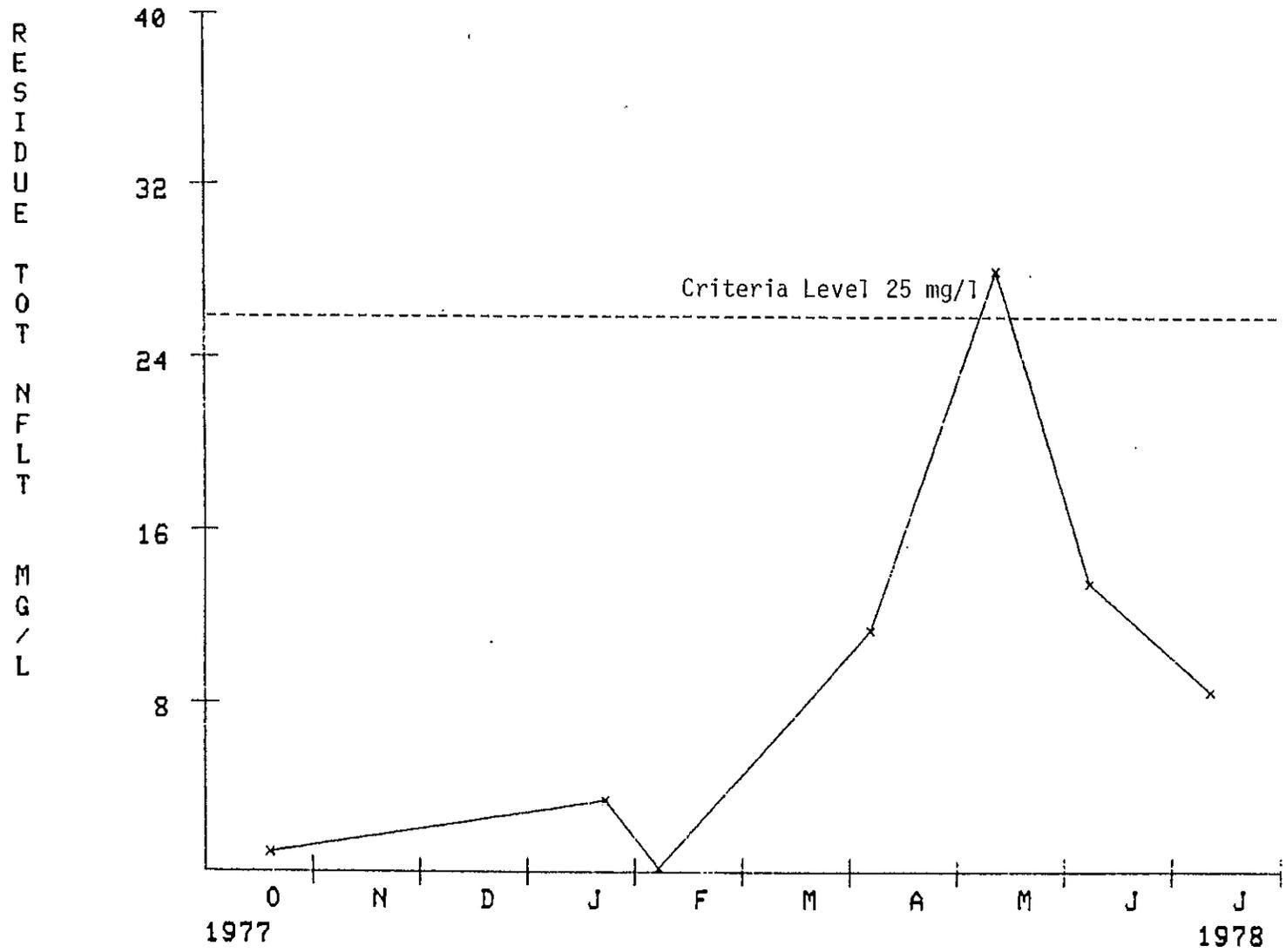
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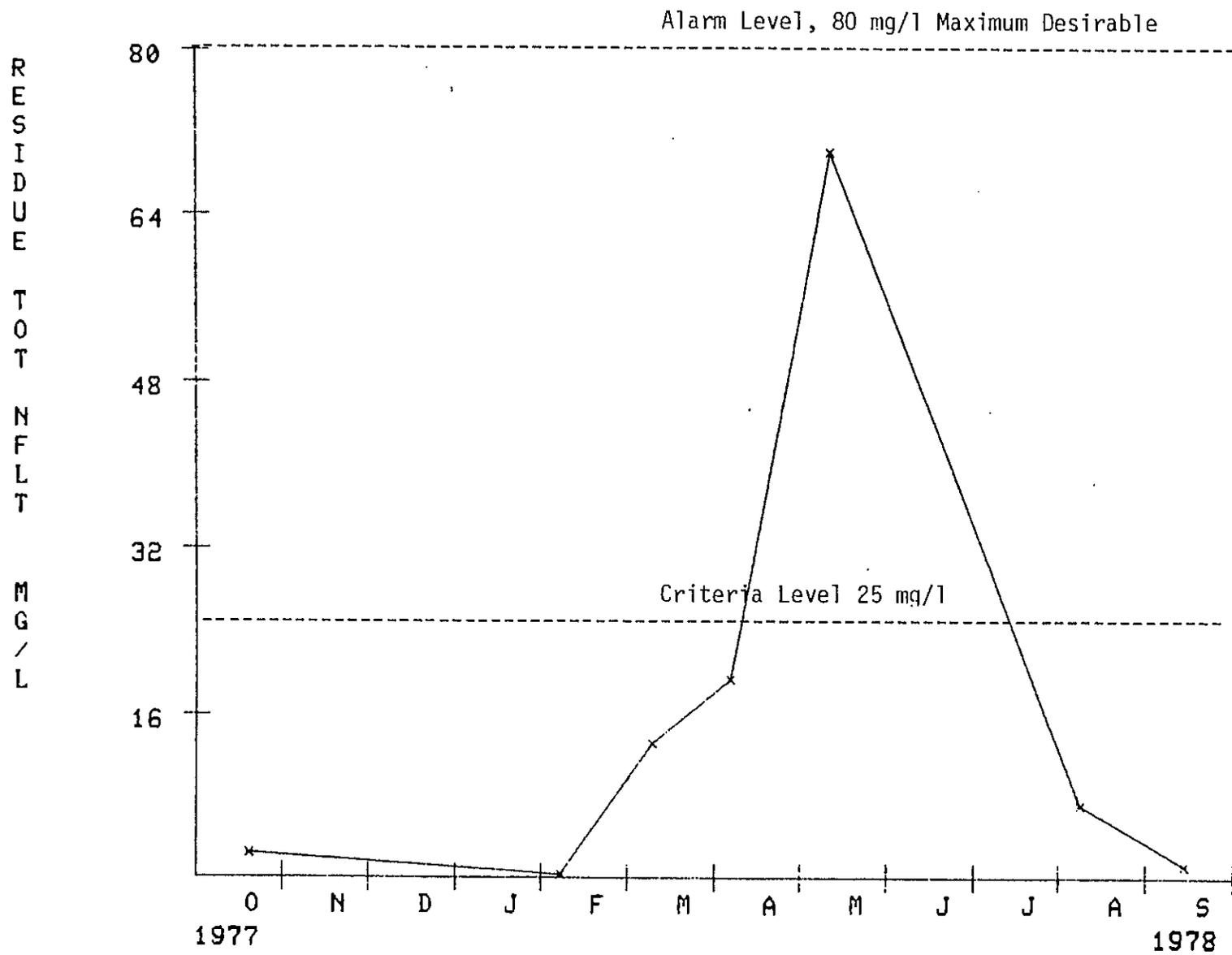
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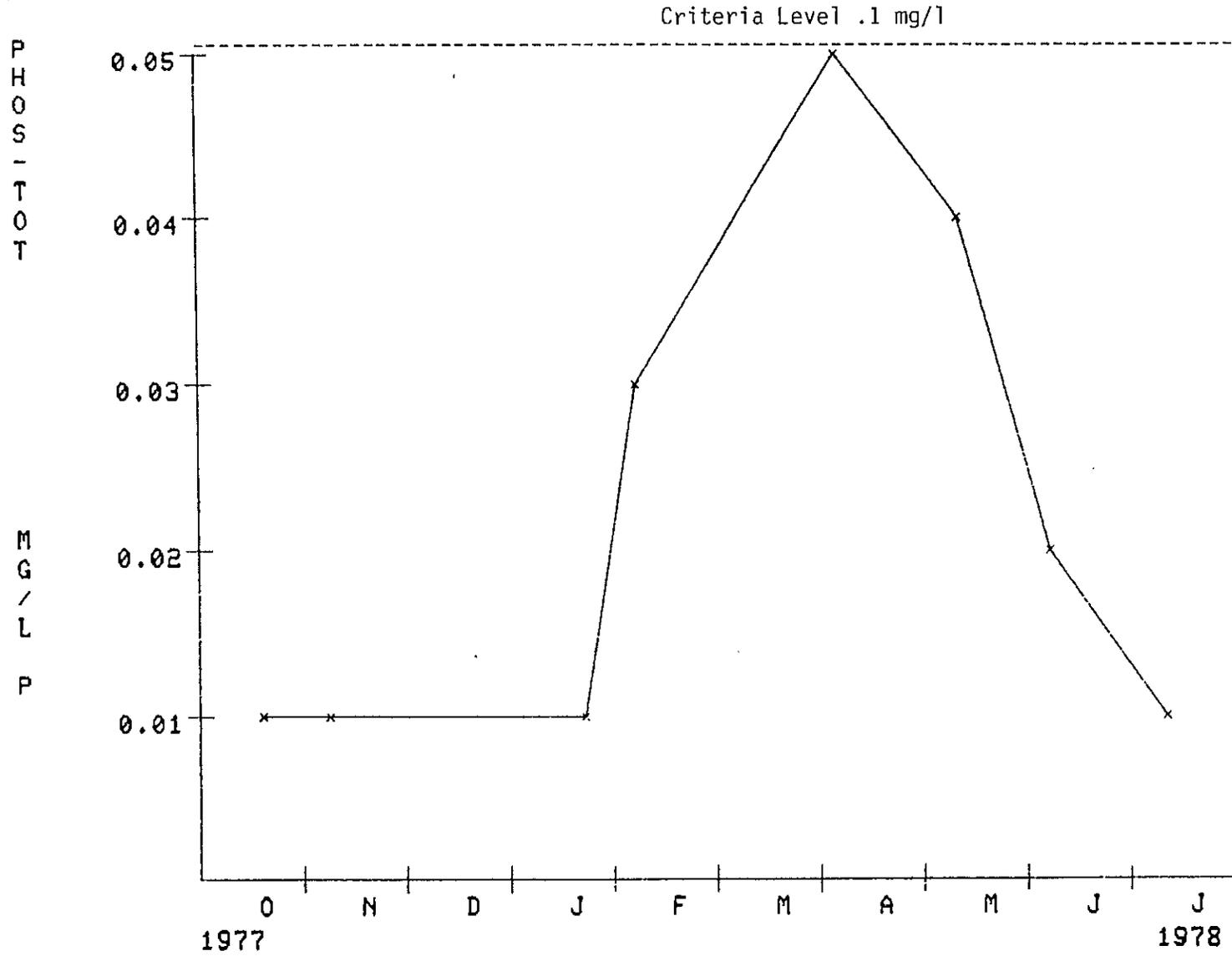
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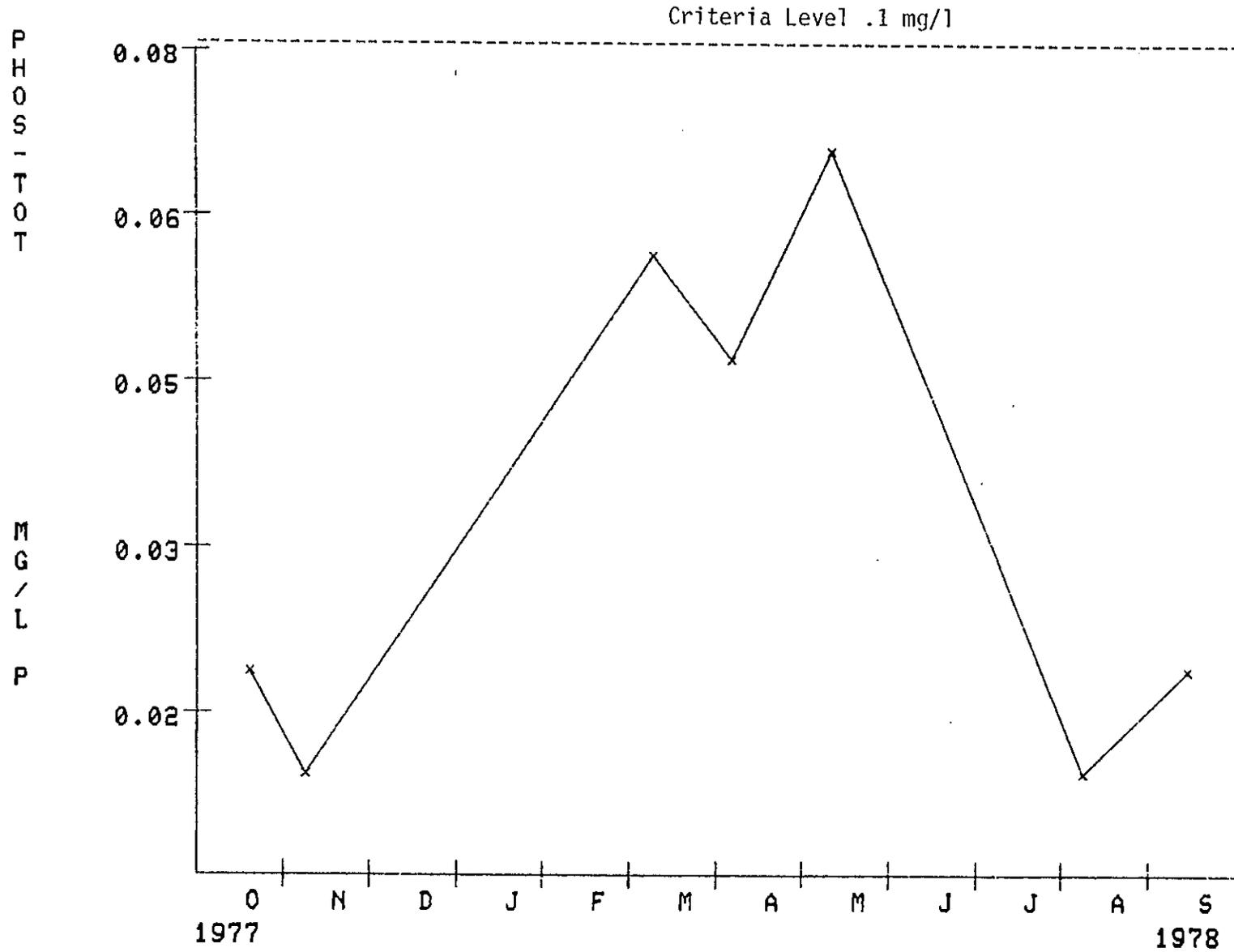
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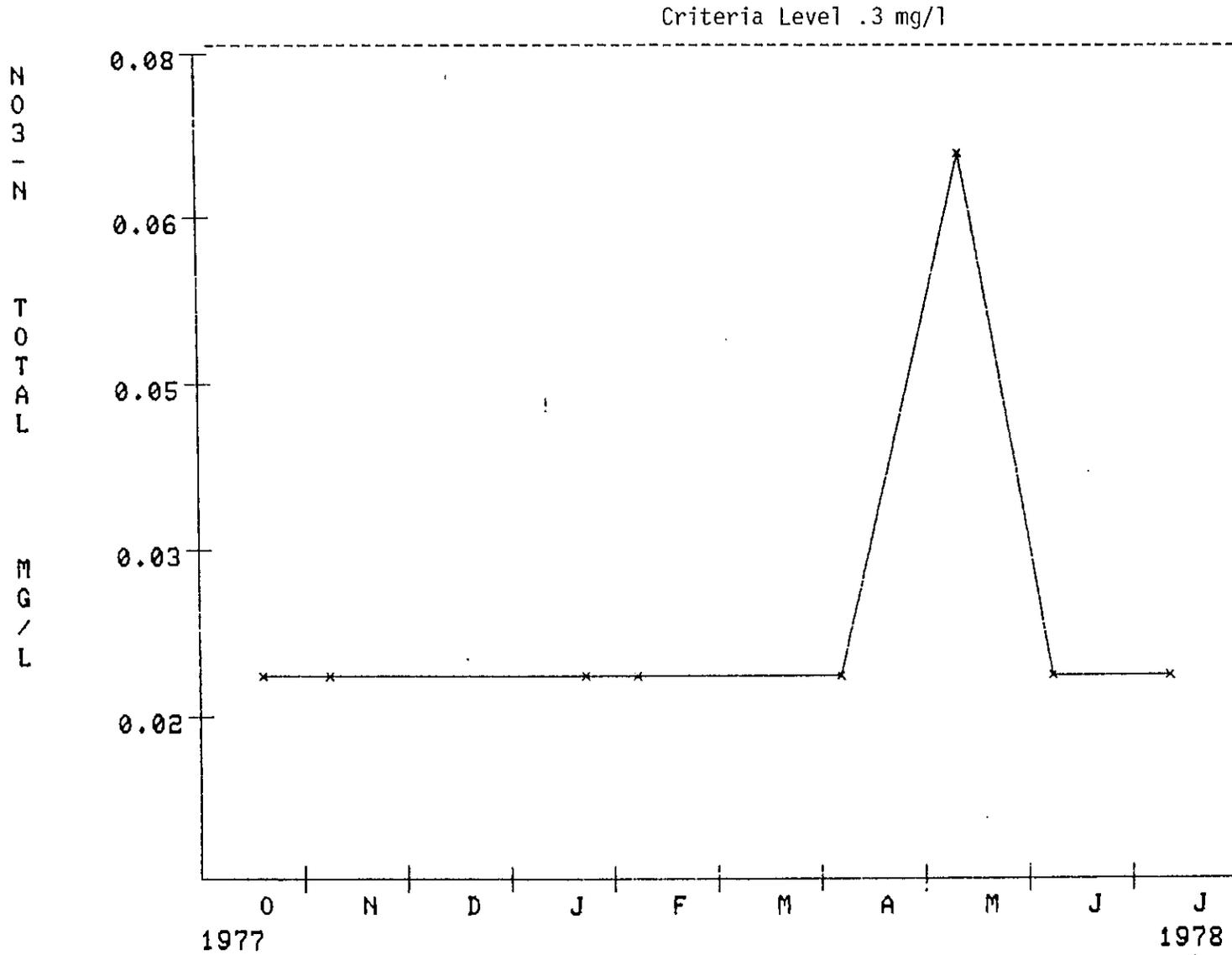
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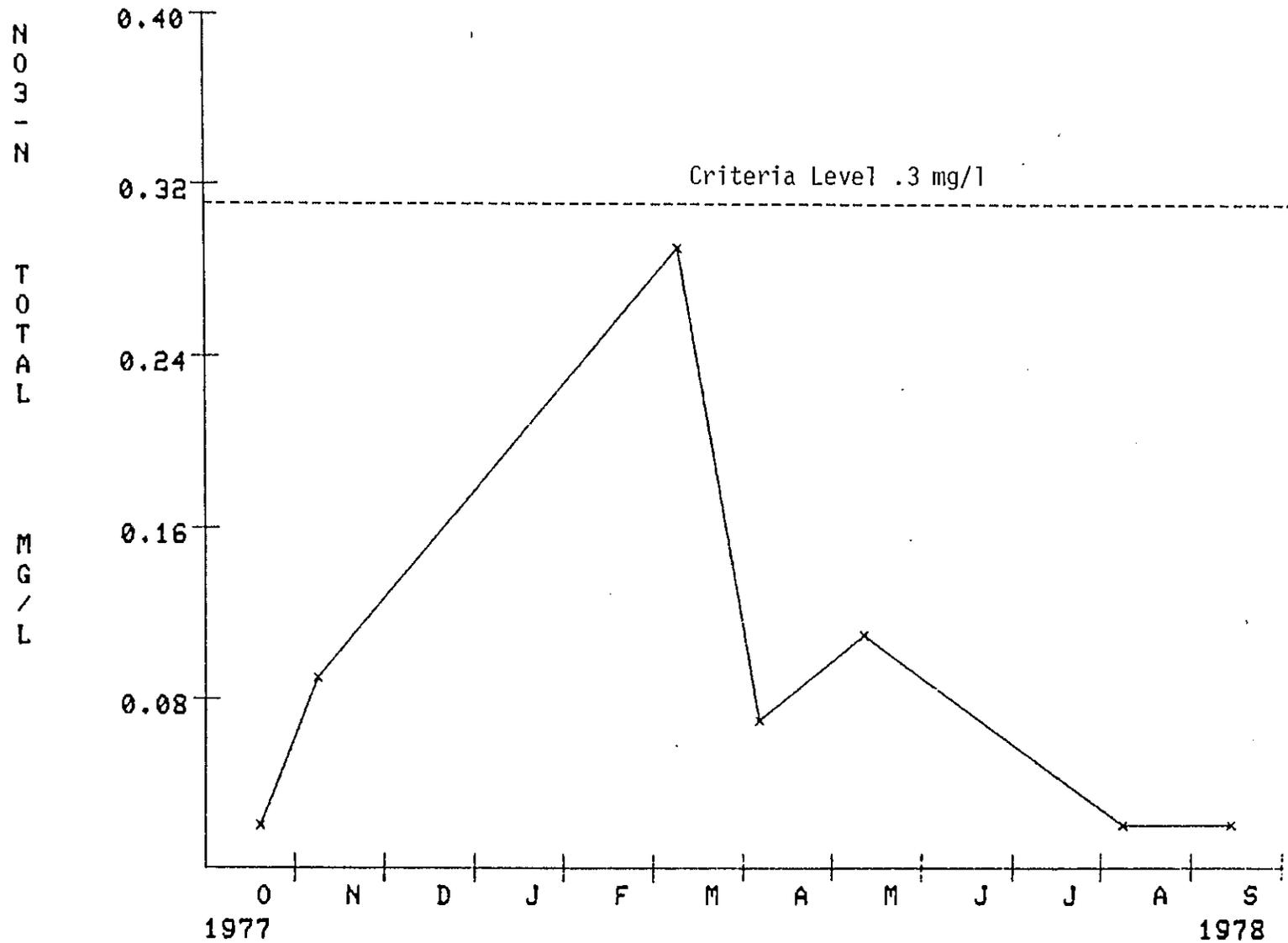
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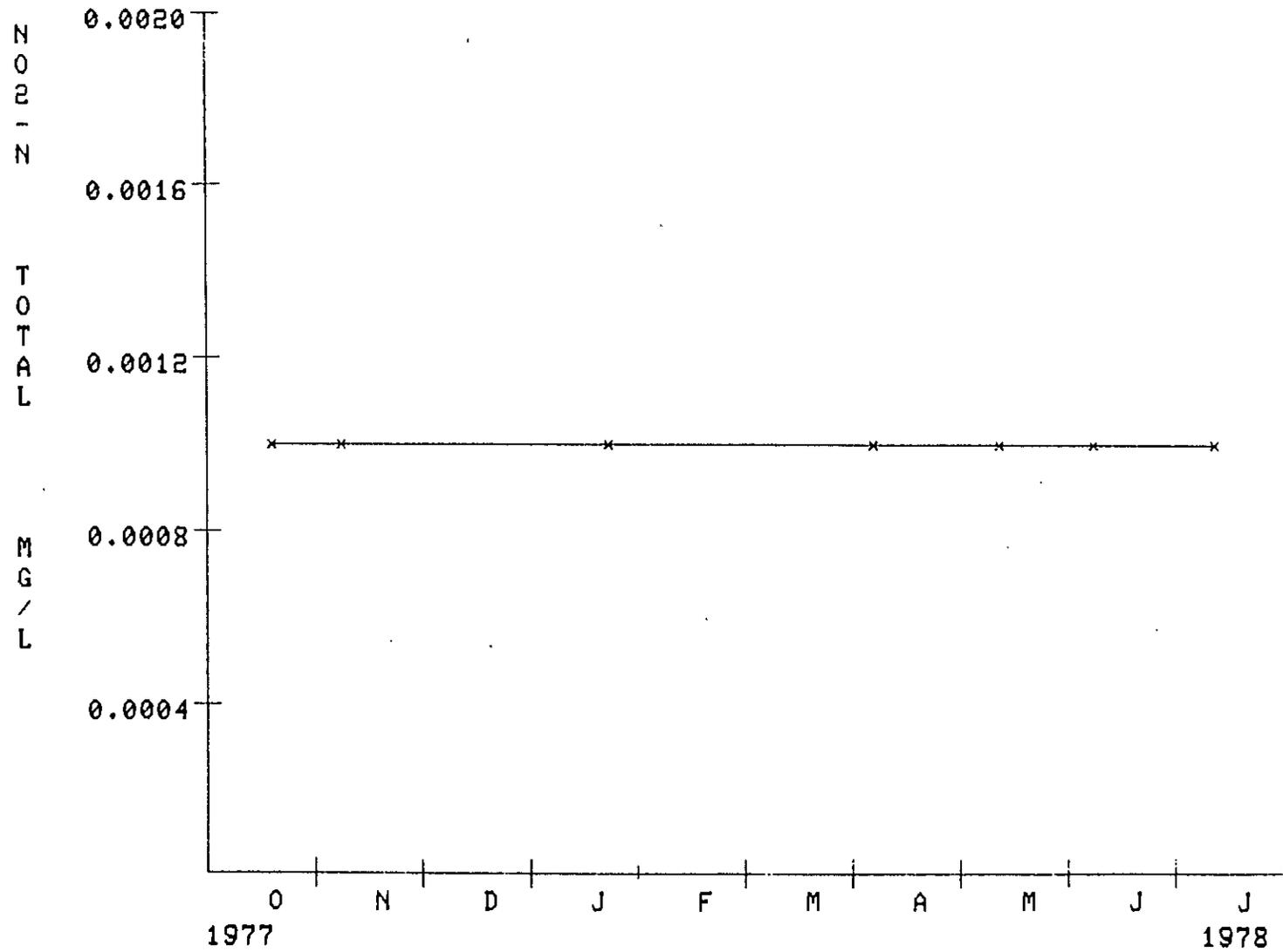
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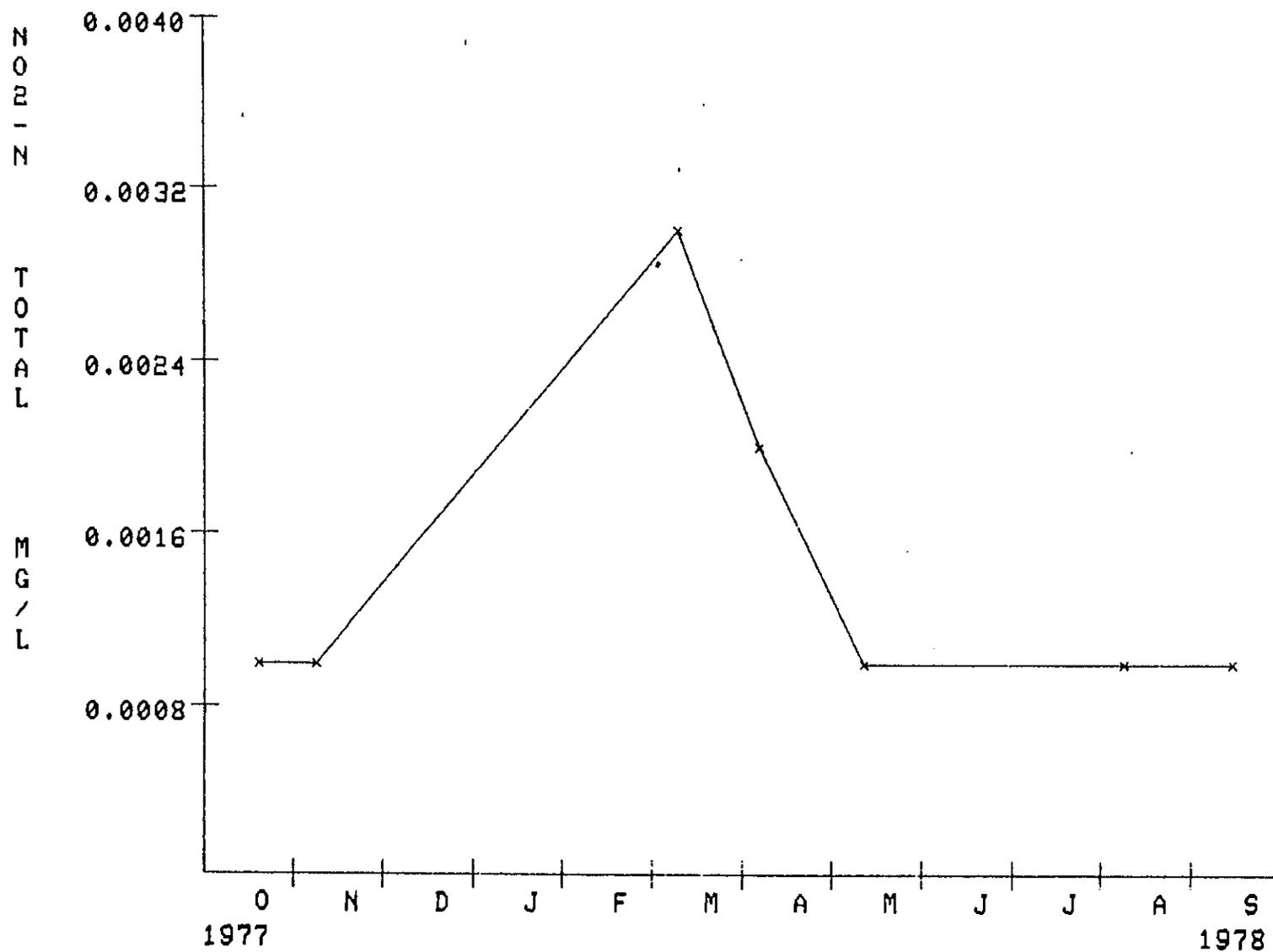
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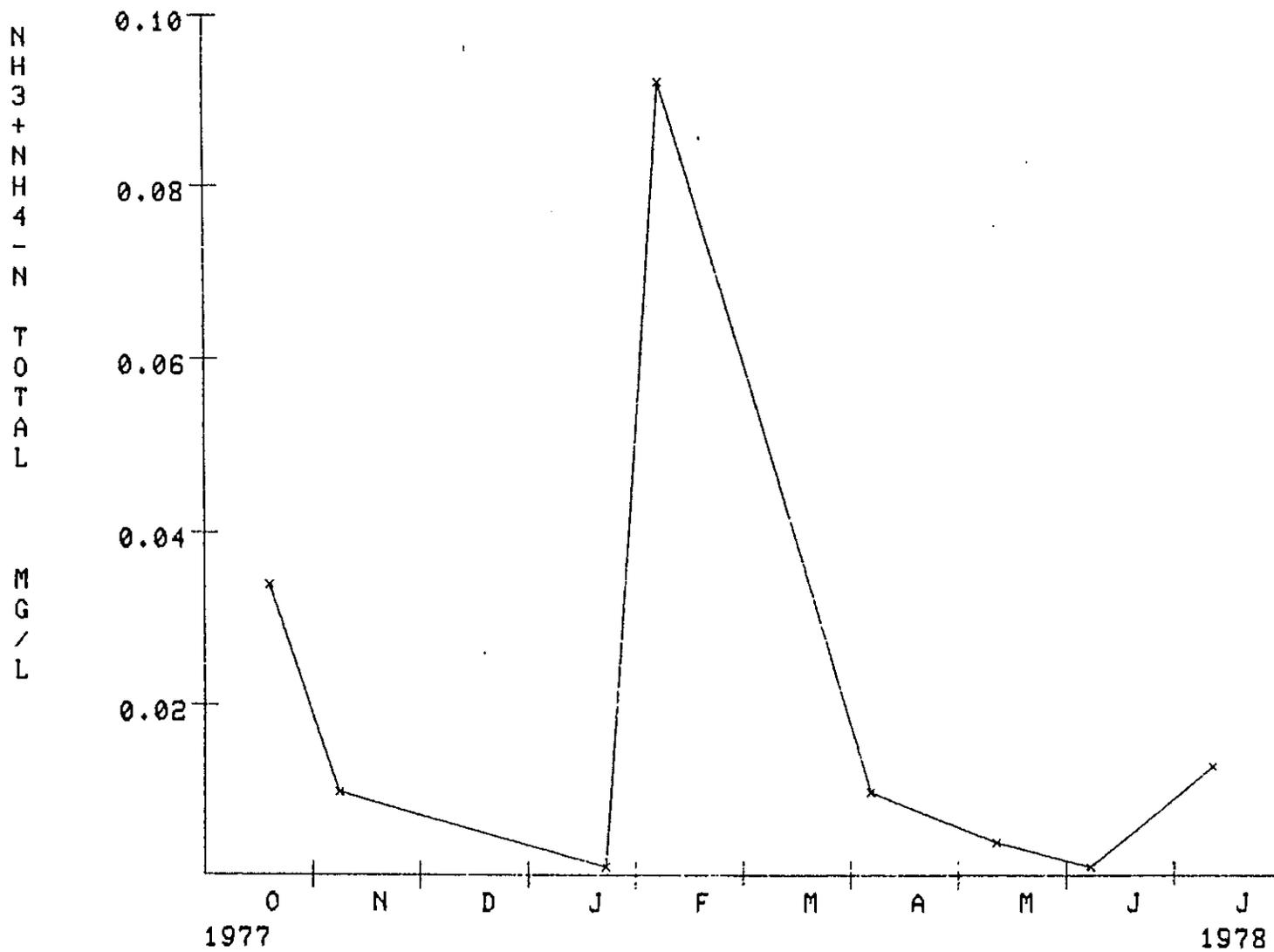
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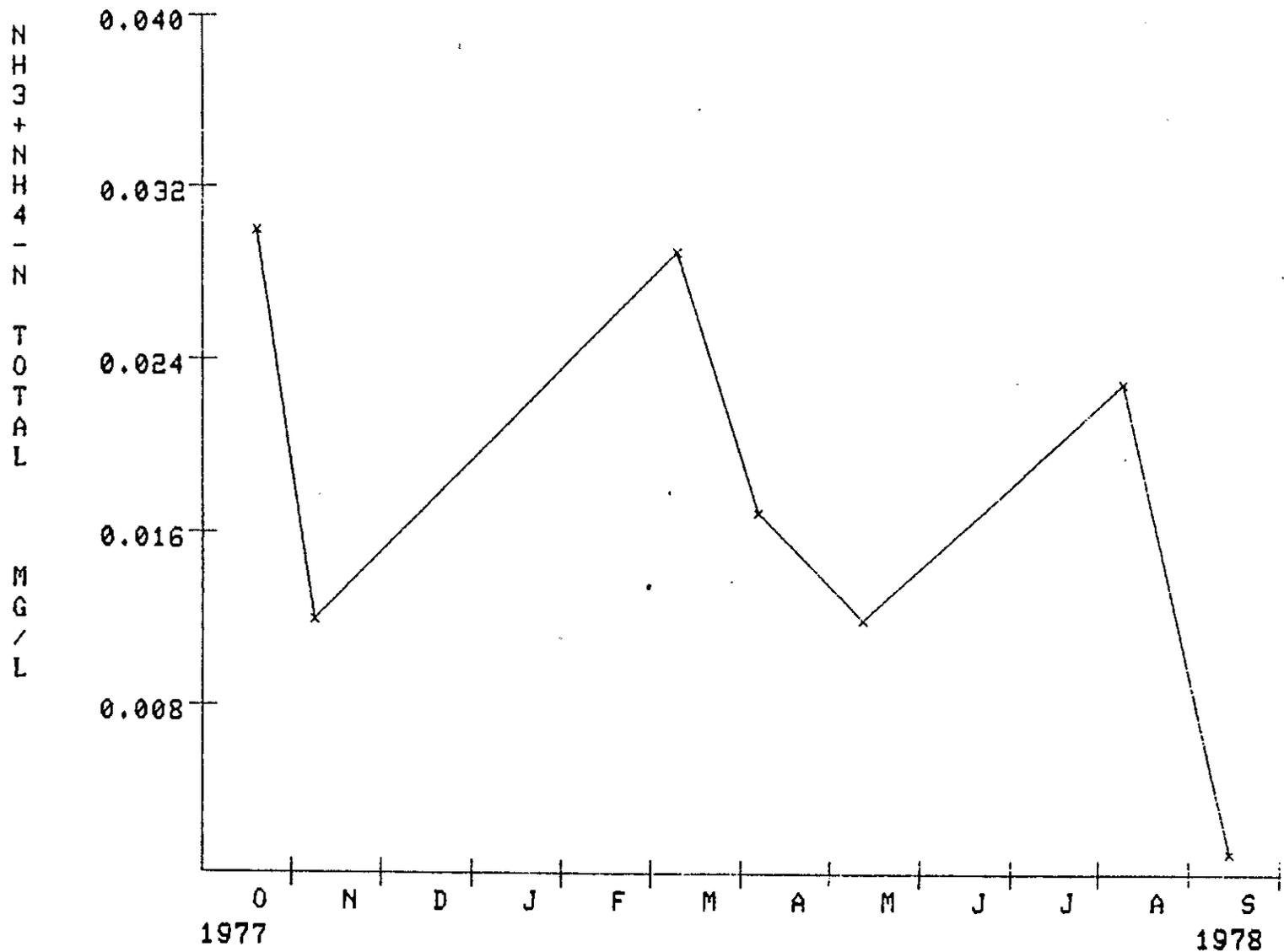
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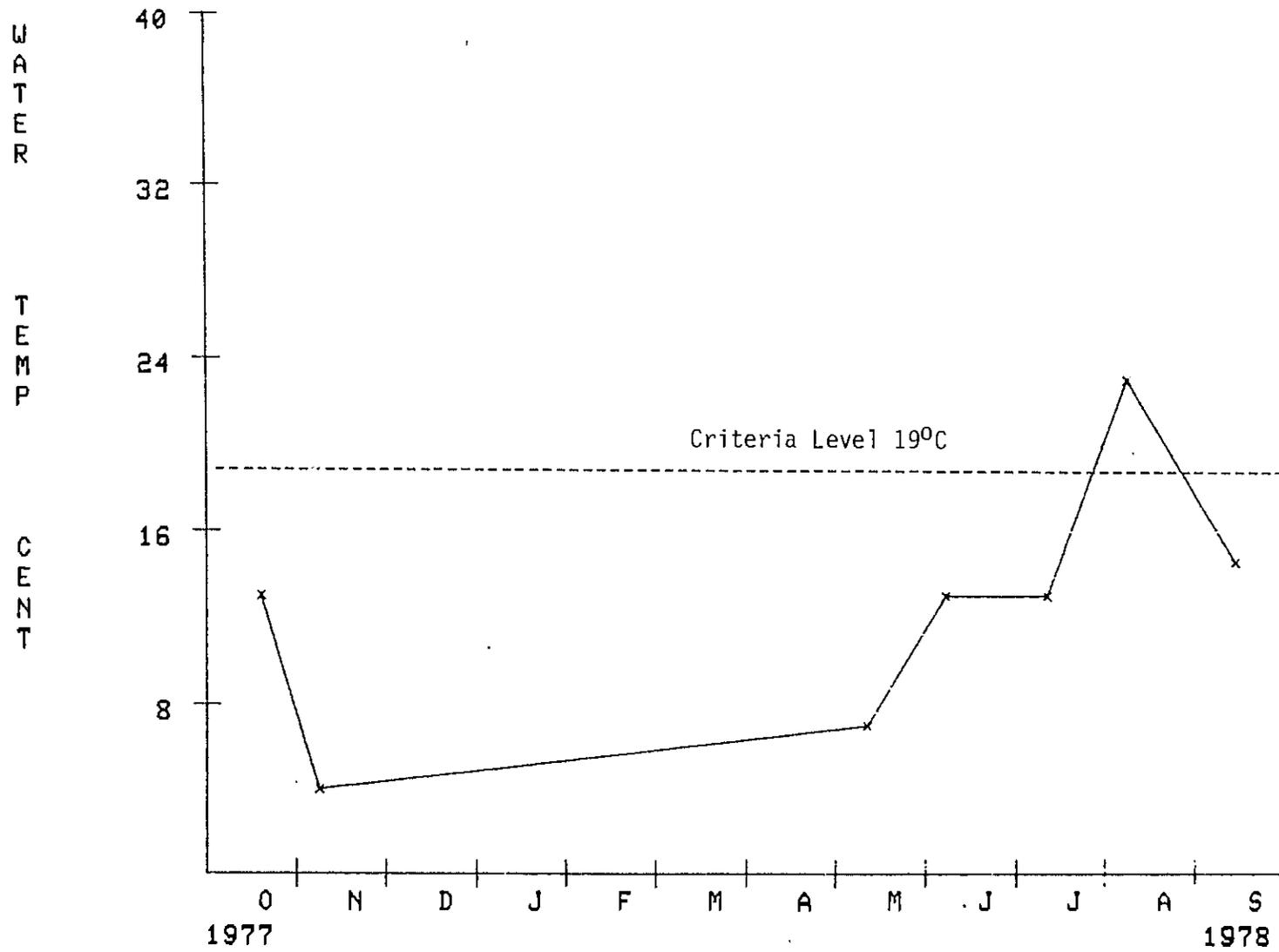
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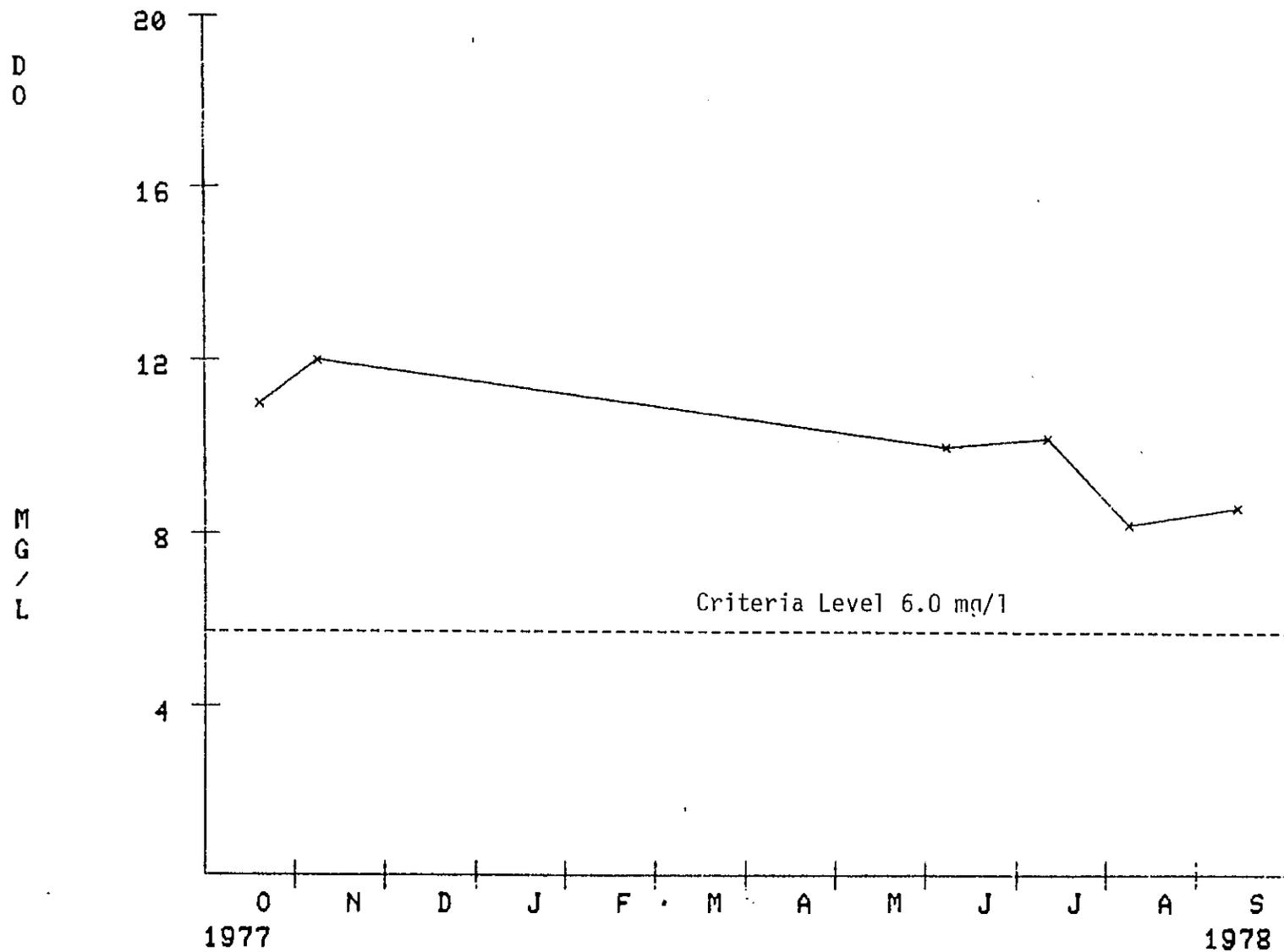
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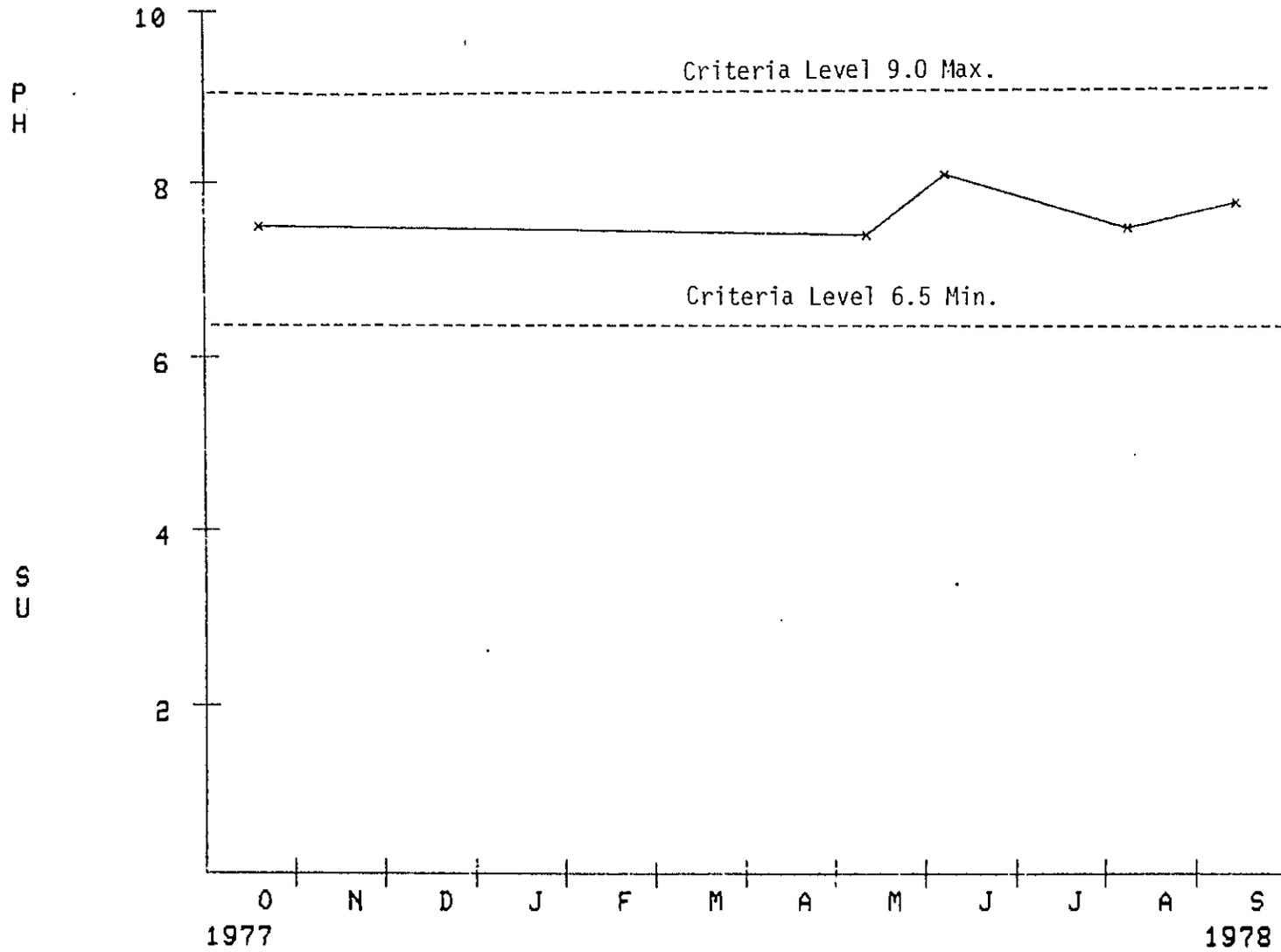
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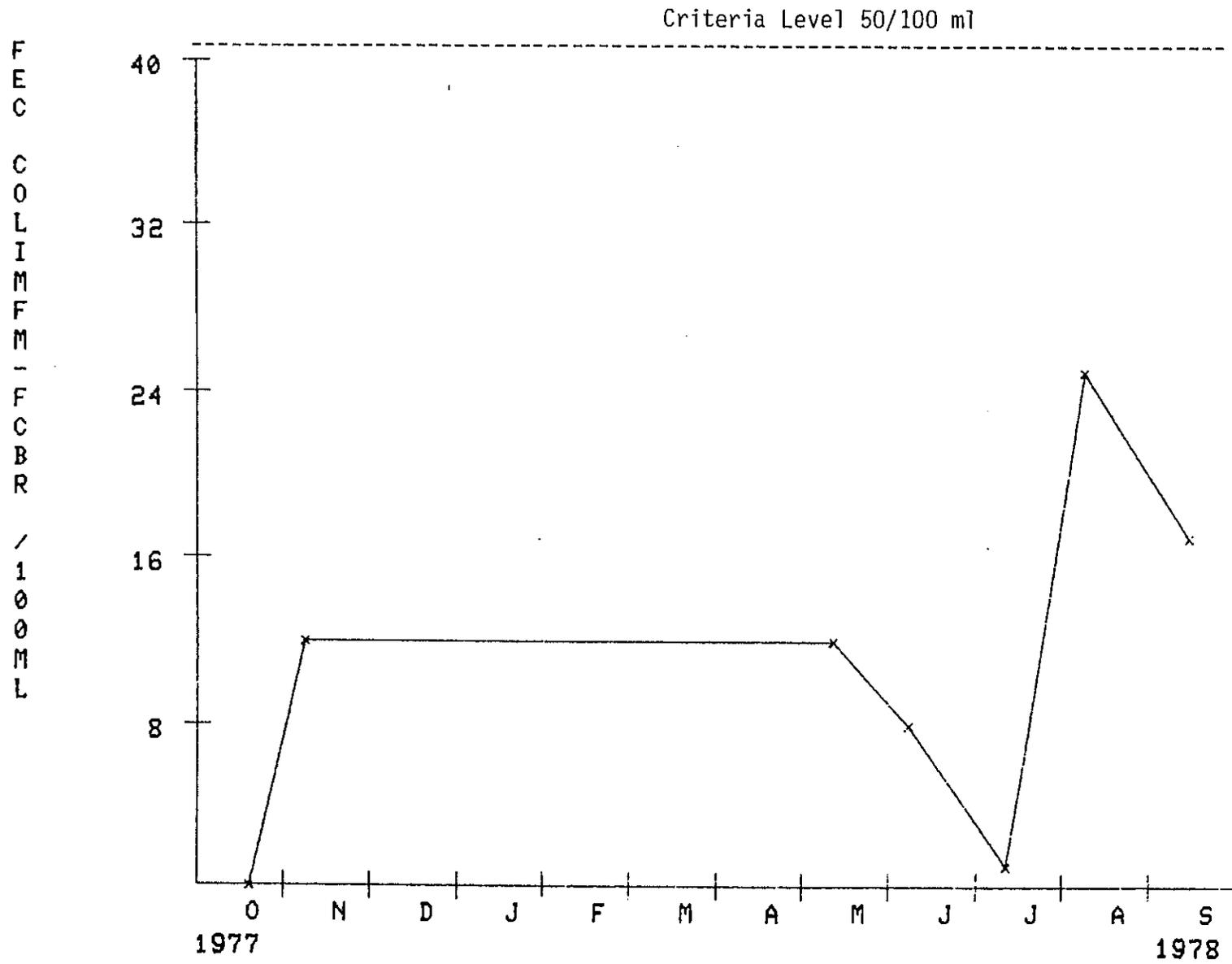
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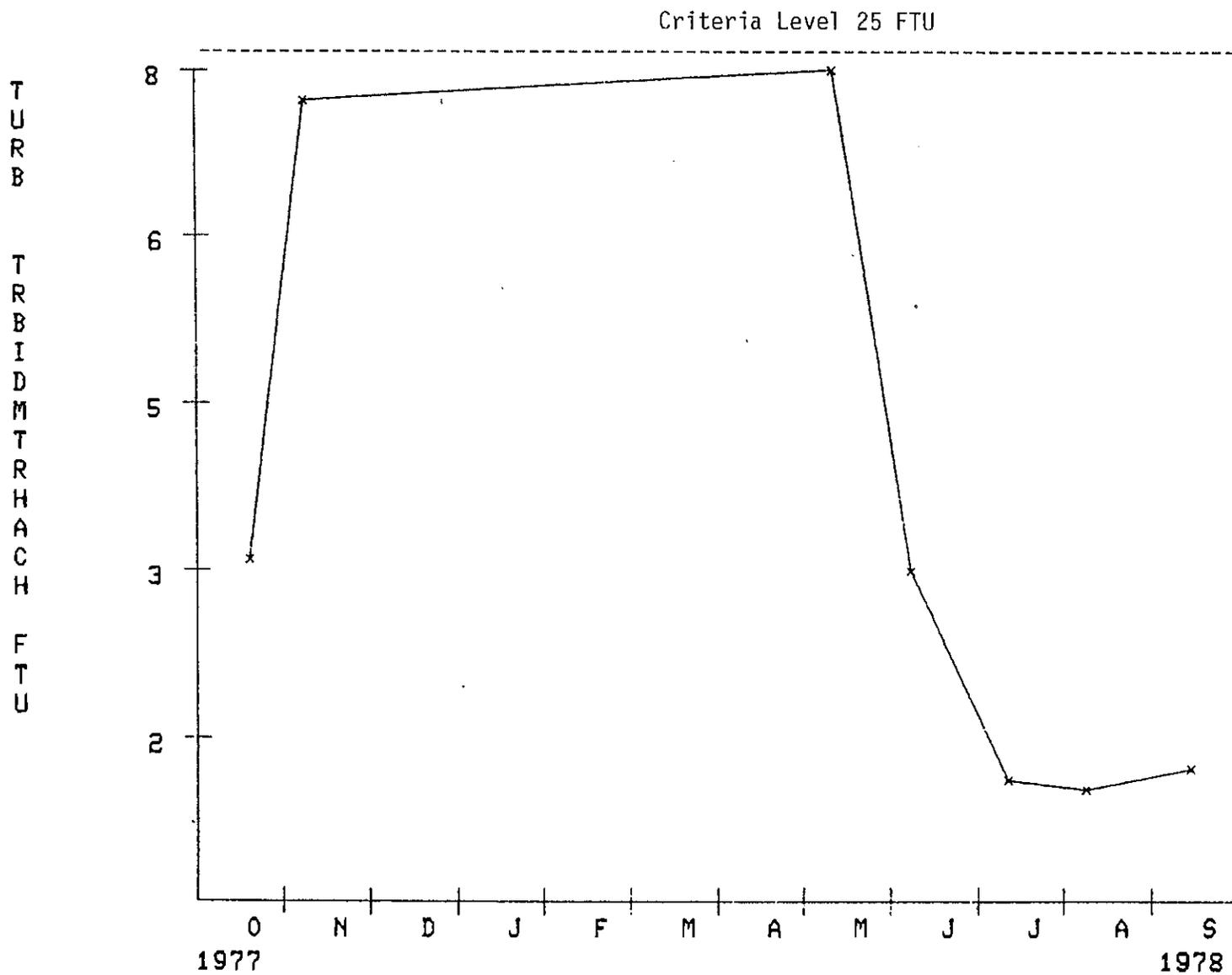
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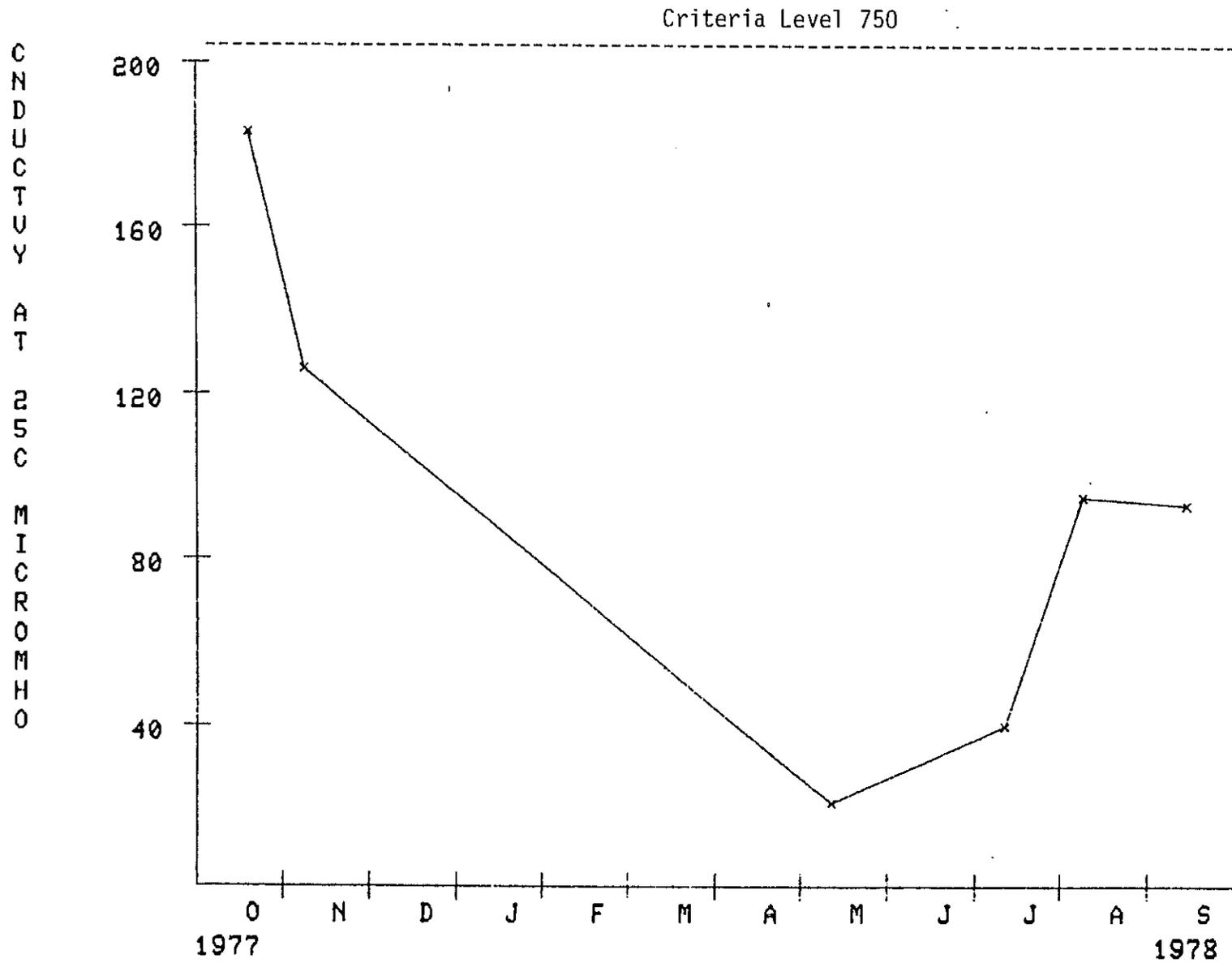
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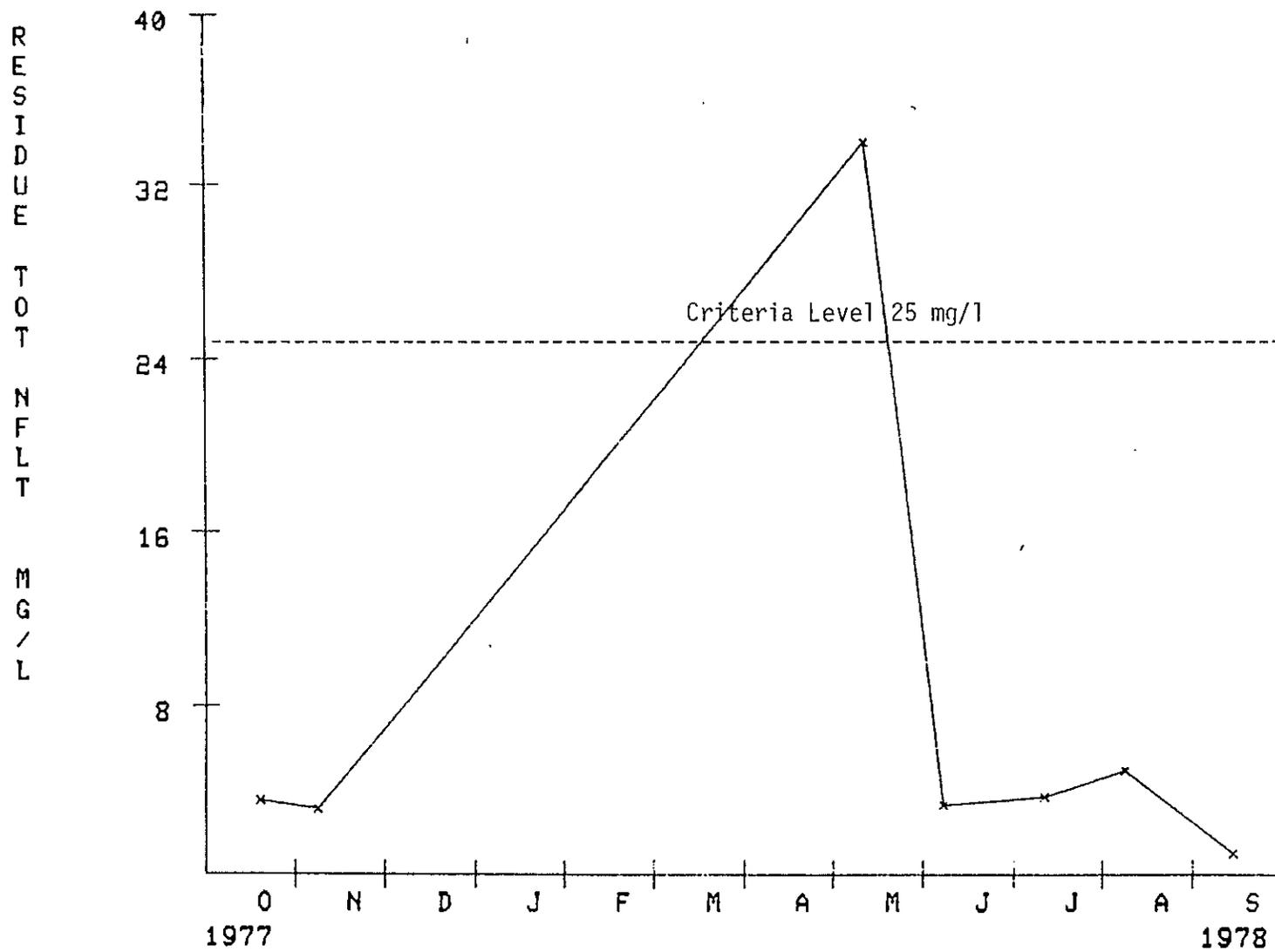
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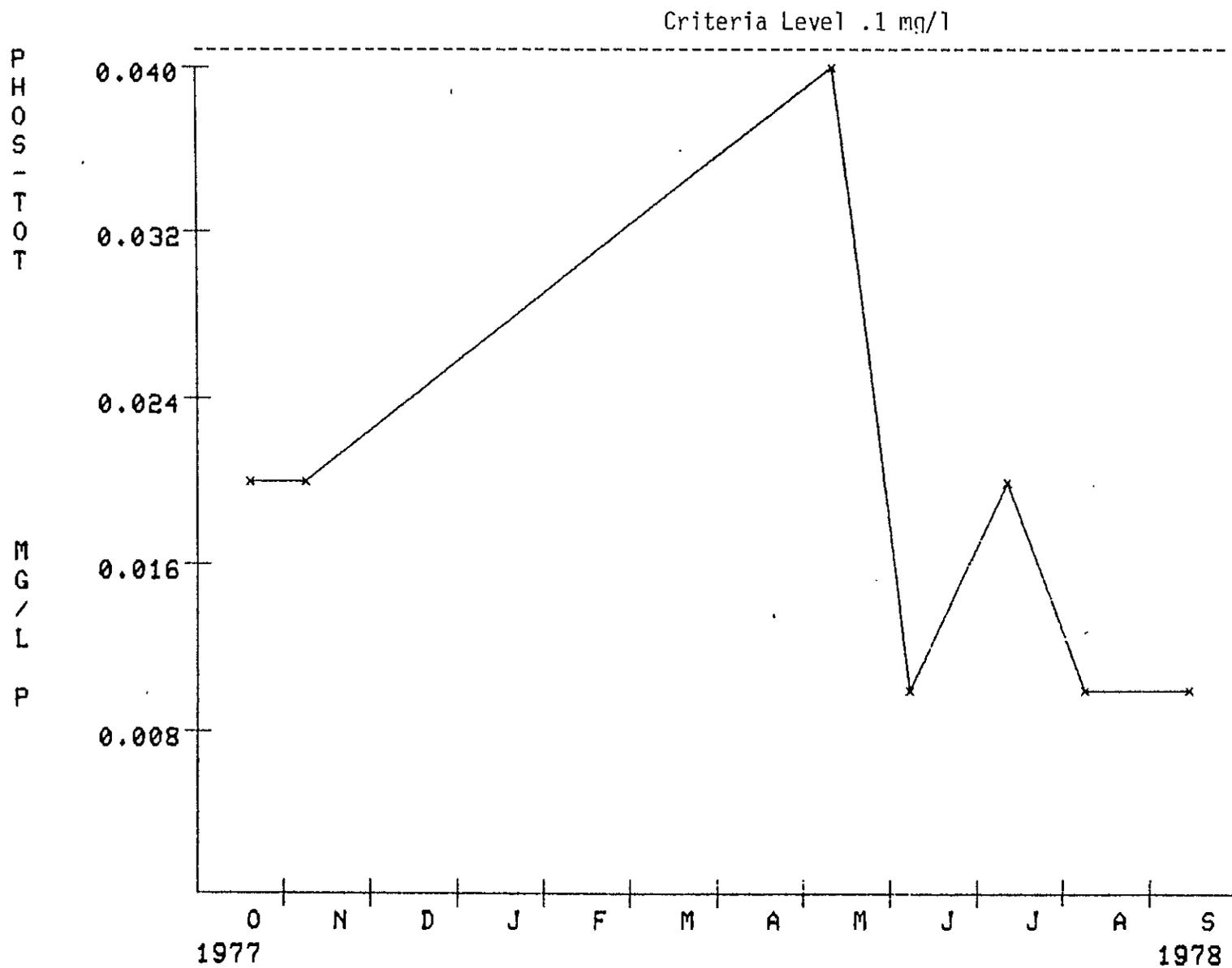
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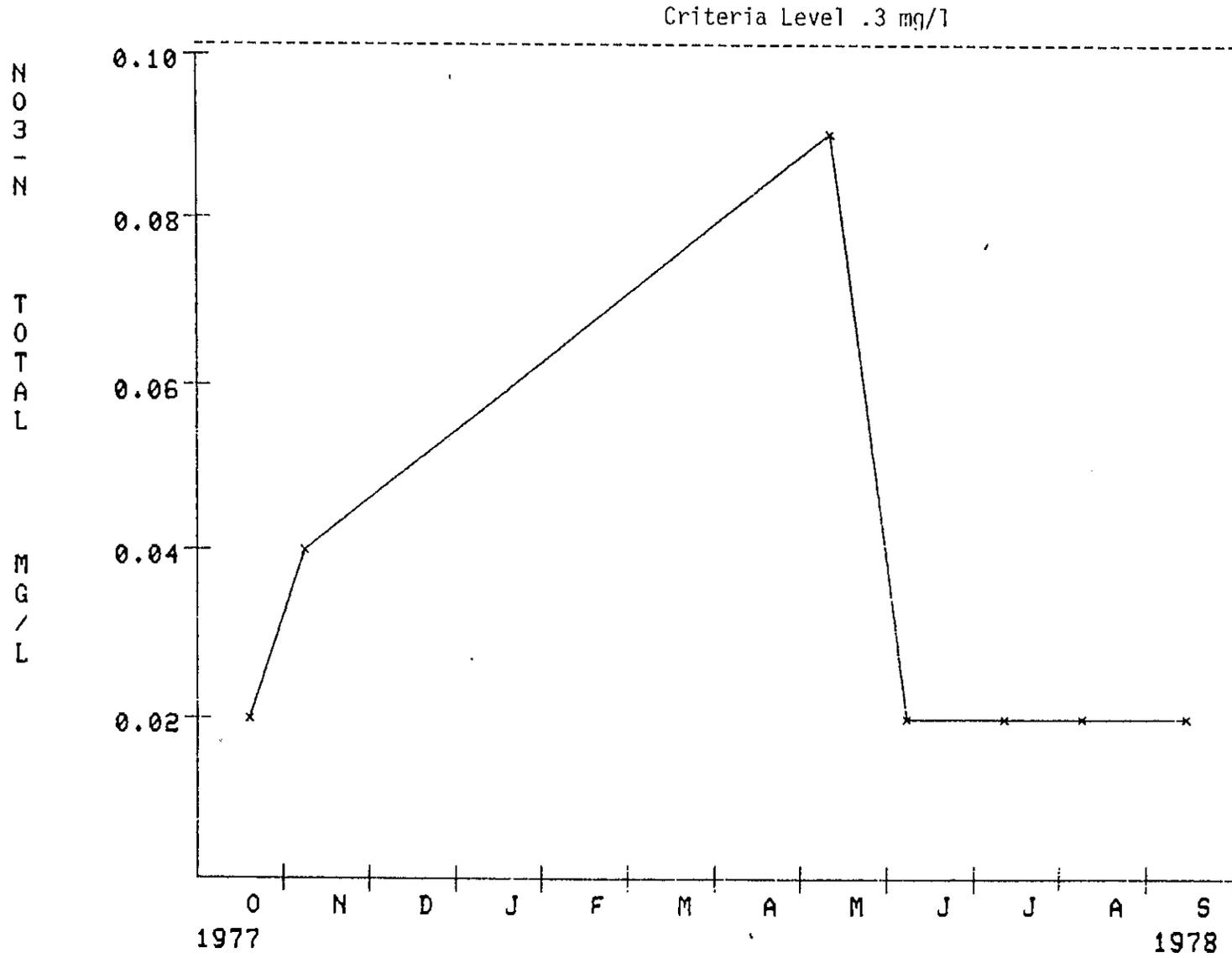
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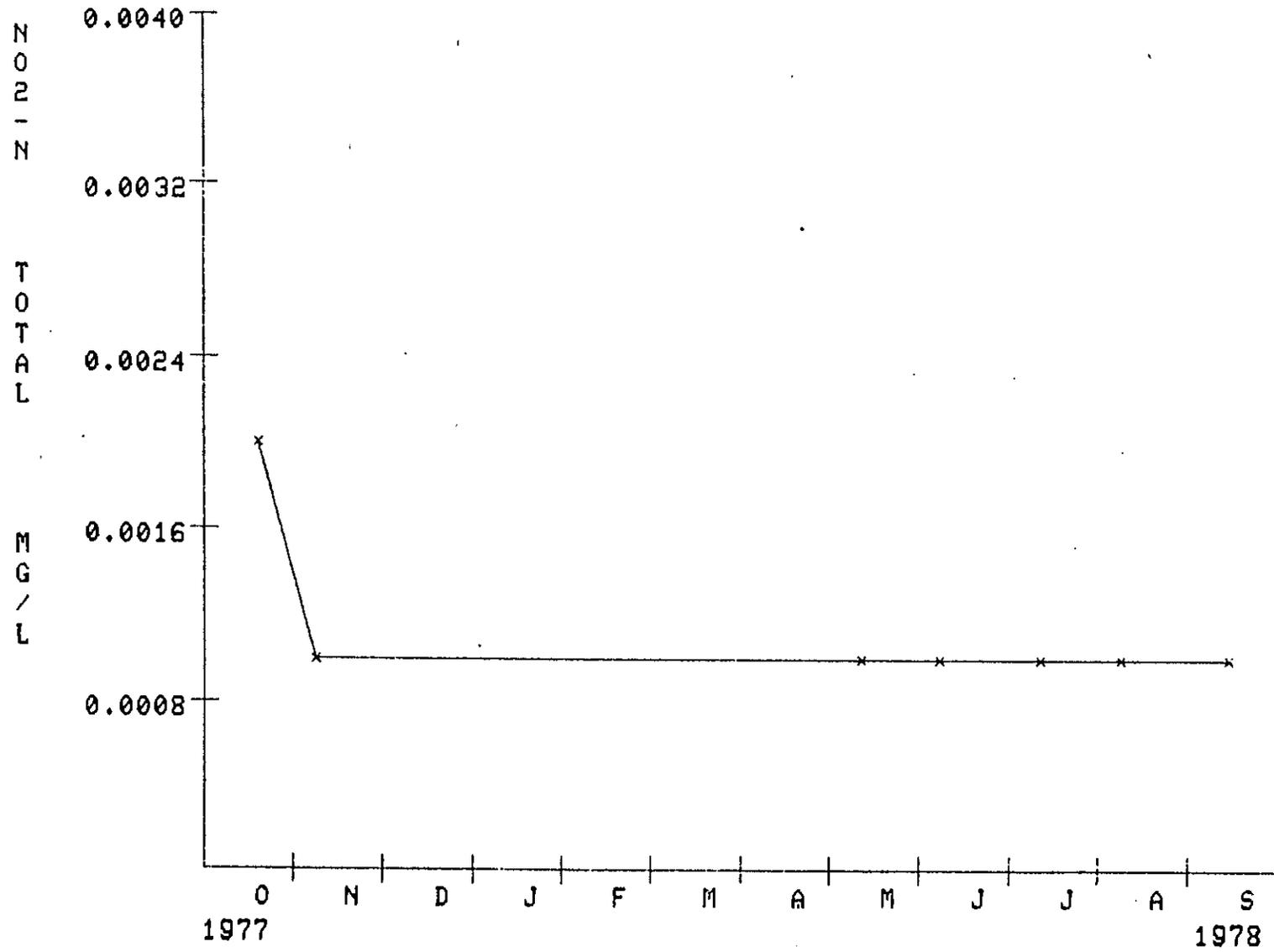
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