

S. F. COEUR D'ALENE RIVER TRIBUTARIES

Shoshone County

Data Collected 1978

Final Summary October 1980

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

**Water Quality Summary
No. 22**

S.F. COEUR d'ALENE RIVER TRIBUTARIES

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Data Collected 1978

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Statehouse
Boise, Idaho 83720

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SUMMARY OF S.F. COEUR d'ALENE RIVER TRIBUTARIES STUDY

In Water Year 1978 a water quality study was conducted on the significant tributaries of the S.F. Coeur d'Alene River in Shoshone County to assess their year around water quality status. The study included eight tributary streams as follows:

Canyon Creek	Milo Creek
Nine Mile Creek	Government Gulch Creek
Placer Creek	Bunker Creek
Big Creek Creek	Pine Creek

In addition to the tributary streams, the main river was monitored at three locations which were above Mullan, at Silverton, and in Kellogg. Each of the eleven stations were sampled about monthly at eleven separate dates. The parameter coverage included temperature, dissolved oxygen, pH, bacteria, solids, nutrients, and heavy metals.

From the survey data the temperatures of all the tributaries, except for Government Gulch and Bunker Creeks on one date (July 1978), were found to be below the recommended value of 19°C to protect a trout fishery. All streams generally met dissolved oxygen standards, and only one stream (Government Gulch Creek) had pH values outside the water quality standards range of 6.5 to 9.0. Bacteria violations for the primary contact recreation standard of 50/100 ml for fecal coliform occurred on all the tributaries except Big Creek, but Placer Creek and Milo Creek had the highest and most frequent violations. Only Nine Mile Creek,

Placer Creek and Milo Creeks had substantial violations of the secondary contact recreation standard for fecal coliform of 200/100 ml. Of the streams in the study, only Placer Creek had fecal coliform/fecal strep ratios which indicated strong evidence of human waste. The remainder of the streams either had seasonal fluctuations in FC/FS ratios or had predominately non-human or animal sources.

From the eight tributaries sampled only Milo Creek, Bunker Creek, and Government Gulch Creek had repeated occurrences where suspended solids exceeded 25 mg/l; and Canyon Creek, Milo Creek, Bunker Creek and Government Gulch Creek all exceeded a 10 FTU turbidity on several occasions. In addition, the recommended trophic level for nutrients was exceeded only on Big Creek, Milo Creek, Bunker Creek, and Government Gulch Creek.

The major water quality problem on the S.F. Coeur d'Alene River is toxic heavy metals and many of the tributaries contributed to this problem. Of the streams sampled, only Placer Creek did not contain toxic levels of heavy metals. Bunker Creek and Government Gulch Creek had the worst heavy metals concentrations with zinc (2.75 to 120 mg/l), cadmium (undetectable to 6.3 mg/l), lead (undetectable to 55 mg/l), and copper (undetectable to 4.3 mg/l) all exceeding recommended toxic concentrations. Arsenic, chromium, silver, antimony, and mercury concentrations were also occasionally elevated on these two streams. Of the remaining five streams Canyon Creek and Nine Mile Creek were the next worst with zinc (1.7 to 10 mg/l), cadmium (0.005 to 0.1 mg/l), and lead (0.03 to 0.36 mg/l) exceeding toxic criteria. Milo Creek had frequent problems with zinc

(0.41 to 3.5 mg/l) and lead (0.01 to 2.0 mg/l) exceeding toxic criteria. Pine Creek also had elevated zinc concentrations (0.12 to 1.5 mg/l). Big Creek had infrequent problems with arsenic and antimony.

The major water quality problems to be identified from the S.F. Coeur d'Alene tributaries study were bacteria violations and extremely toxic heavy metal concentrations. In the future additional studies should be conducted on the affected tributaries to locate and control pollutant sources on those streams.

DATA INVENTORY .

2000101
 47 28 15.0 115 45 55.0 2
 S.F. CDA RIVER ABOVE MULLAN-BR
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780413
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600
 MILES 0643.00 0167.80 029.00

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	7	7.14286	33.4762	5.78586	.810021	2.18685	15.0000	.000000	77/11/16	78/09/19
00042 ALTITUDE FEET AB MSL	1	3520.00					3520.00	3520.00	01/01/01	01/01/01
00076 TURR TRRIDMTR HACH FTU	7	1.52857	.525714	.725061	.474339	.274047	2.60000	.700000	77/11/16	78/09/19
00094 CNDUCTVY FIELD MICROMHO	1	50.0000					50.0000	50.0000	78/09/19	78/09/19
00095 CNDUCTVY AT 25C MICROMHO	5	47.6000	521.302	22.8320	.479665	10.2108	83.0000	25.0000	77/11/16	78/09/19
00116 INTNSVF SURVEY IDENT	8	771606	.599E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	6	10.8500	2.75112	1.65865	.152871	.677141	12.8000	8.30000	77/11/16	78/09/19
00400 PH SU	2	8.45000	.045074	.212307	.025125	.150124	8.60000	8.30000	77/11/16	78/06/14
00500 RESIDUE TOTAL MG/L	7	48.1428	212.145	14.5652	.302541	5.50513	63.0000	17.0000	77/11/16	78/09/19
00530 RESIDUE TOT NFLT MG/L	7	3.87143	23.1157	4.80788	1.24189	1.81721	13.1000	1.00000	77/11/16	78/09/19
00610 NH3+NH4- N TOTAL MG/L	7	.010714	.000118	.010874	1.01488	.004110	.030000	.001000	77/11/16	78/09/19
00615 NO2-N TOTAL MG/L	7	.001000	.288E-11	.000002	.001697	.641E-06	.001000	.001000	77/11/16	78/09/19
00620 NO3-N TOTAL MG/L	7	.041429	.000714	.026726	.645114	.010102	.070000	.020000	77/11/16	78/09/19
00625 TOT KJEL N MG/L	7	.434285	.061629	.248251	.571632	.093830	.800000	.110000	77/11/16	78/09/19
00665 PHOS-TOT MG/L P	7	.018571	.000148	.012150	.654224	.004592	.040000	.010000	77/11/16	78/09/19
01002 ARSENIC AS,TOT UG/L	7	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/11/16	78/09/19
01027 CADMIUM CD,TOT UG/L	7	7.57143	31.2858	5.59337	.738747	2.11409	20.0000	5.00000	77/11/16	78/09/19
01034 CHROMIUM CR,TOT UG/L	7	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/11/16	78/09/19
01042 COPPER CU,TOT UG/L	7	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/11/16	78/09/19
01051 LEAD PB,TOT UG/L	7	32.8571	457.144	21.3809	.650724	8.08123	50.0000	10.0000	77/11/16	78/09/19
01077 SILVER AG,TOT UG/L	6	1.00000	.000000	.000000		.000000	1.00000	1.00000	78/02/14	78/09/19
01092 ZINC ZN,TOT UG/L	7	3.71428	23.9048	4.88925	1.31634	1.84796	14.0000	1.00000	77/11/16	78/09/19
01097 ANTIMONY SB,TOT UG/L	7	10.2857	.571492	.755971	.073497	.285730	12.0000	10.0000	77/11/16	78/09/19
31501 TOT COLI MFIMENDO /100ML	6	141.167	20588.2	143.486	1.01643	58.5778	400.000	10.0000	78/02/14	78/09/19
31616 FEC COLI MFH-FCBR /100ML	7	95.5714	7827.62	88.4738	.925735	33.4400	275.000	1.00000	77/11/16	78/09/19
31679 FECSTREP MF M-ENT /100ML	7	92.1428	13143.5	114.645	1.24421	43.3317	275.000	.000000	77/11/16	78/09/19
70300 RESIDUE DISS-180 C MG/L	7	45.1428	193.145	13.8977	.307860	5.25282	56.0000	18.0000	77/11/16	78/09/19
70507 PHOS-T ORTHO MG/L P	7	.010000	.776E-10	.000009	.000881	.000003	.010000	.010000	77/11/16	78/09/19
71900 MERCURY HG,TOTAL UG/L	6	.666666	.042667	.206559	.309839	.084327	1.00000	.500000	77/11/16	78/09/19

2000102
 47 29 25.0 115 54 49.0 2
 CANYON CREEK AT MOUTH AT BRIDGE
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780413
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0510
 MILES 0643.00 0167.80 019.10 000.10
 PARAMETER

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	6.59091	21.3409	4.61963	.700909	1.39287	15.0000	2.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2800.00					2800.00	2800.00	01/01/01	01/01/01
00076 TURR TRRIDMTR HACH FTU	10	5.06999	19.5245	4.41866	.871531	1.39730	15.0000	1.80000	77/10/25	78/09/19
00094 CNDUCTVY FIELD MICROMHO	1	120.000					120.000	120.000	78/09/19	78/09/19
00095 CNDUCTVY AT 25C MICROMHO	7	128.571	3105.96	55.7311	.433464	21.0644	195.000	40.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	571E+06	.000000			771606	771606	01/01/01	78/09/19
00300 DO MG/L	10	11.3000	3.23787	1.79941	.159240	.569023	13.6000	8.40000	77/10/25	78/09/19
00400 PH SU	3	8.10000	.070145	.264848	.032697	.152910	8.30000	7.80000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	89.1960	2063.78	45.4288	.509315	14.3659	143.000	.060000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	4.81000	17.9299	4.23437	.880327	1.33902	12.1000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.084900	.003100	.055676	.655789	.017606	.185000	.008000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.003200	.000004	.001989	.621518	.000629	.007000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.170000	.008778	.093690	.551121	.029627	.290000	.060000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	.565999	.050160	.223965	.395698	.070824	.890000	.200000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.020000	.000111	.010541	.527047	.003333	.040000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	10.0000	.000000	.000000			10.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	42.4545	340.874	18.4628	.434883	5.56673	64.0000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000			10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	13.6364	85.4546	9.24417	.677905	2.78722	40.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	120.909	7709.10	87.8015	.726177	26.4731	360.000	30.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000			1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	6768.18	7961113	2821.54	.416884	850.728	10250.0	1725.00	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	12.0909	14.0909	3.75379	.310464	1.13181	20.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	11	228.545	280246	529.383	2.31631	159.615	1800.00	.000000	77/10/25	78/09/19
31616 FEC COLI MFM=FCBR /100ML	11	33.0000	4236.80	65.0907	1.97244	19.6256	220.000	.000000	77/10/25	78/09/19
31679 FECSTREP HF M=ENT /100ML	11	15.8182	306.364	17.5032	1.10653	5.27743	56.0000	2.00000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	88.4300	819.236	28.6223	.323672	9.05117	137.000	28.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.010000	.517E-10	.000007	.000719	.000002	.010000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	.518182	.003636	.060303	.116374	.018182	.700000	.500000	77/10/25	78/09/19

2000103
 47 28 28.0 115 55 29.0 2
 NINE MILE CK AT MOUTH AB USGS
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780413
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0490
 MILES 0643.00 0167.80 018.65 000.10
 PARAMETER

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER	11	7.27273	24.2182	4.92120	.676665	1.48380	15.0000	1.00000	77/10/25	78/09/19
00042 ALTITUDE	1	2800.00					2800.00	2800.00	01/01/01	01/01/01
00076 TURB	10	1.86000	1.25601	1.12072	.602537	.354402	4.60000	.900000	77/10/25	78/09/19
00094 CONDUCTVY	1	100.000					100.000	100.000	78/09/19	78/09/19
00095 CONDUCTVY	7	130.571	3235.29	56.8796	.435621	21.4985	199.000	50.0000	77/10/25	78/09/19
00116 INTNSVE	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO	9	11.9111	1.80127	1.34211	.112677	.447371	13.8000	10.4000	77/10/25	78/09/19
00400 PH	2	8.00000	.180000	.424273	.053034	.300007	8.30000	7.70000	77/10/25	77/11/16
00500 RESIDUE	10	107.700	892.687	29.8779	.277418	9.44822	147.000	46.0000	77/10/25	78/09/19
00530 RESIDUE	10	4.32000	7.10182	2.66492	.616881	.842723	8.50000	1.00000	77/10/25	78/09/19
00610 NH3+NH4-	10	.025200	.000463	.021524	.854133	.006807	.058000	.001000	77/10/25	78/09/19
00615 NO2-N	10	.001000	.293E-11	.000002	.001712	.541E-06	.001000	.001000	77/10/25	78/09/19
00620 NO3-N	10	.108000	.011551	.107476	.995150	.033987	.330000	.020000	77/10/25	78/09/19
00625 TOT KJEL	10	.440000	.072000	.268328	.609837	.084853	1.00000	.100000	77/10/25	78/09/19
00665 PMOS-TOT	10	.020000	.000089	.009428	.471407	.002981	.030000	.010000	77/10/25	78/09/19
01002 ARSENIC	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM	11	38.5454	540.475	23.2481	.603135	7.00957	100.000	15.0000	77/10/25	78/09/19
01034 CHROMIUM	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01051 LEAD	11	82.7273	1041.82	32.2773	.390165	9.73198	160.000	50.0000	77/10/25	78/09/19
01077 SILVER	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC	11	5876.82	4671974	2161.47	.367797	651.709	9530.00	1940.00	77/10/25	78/09/19
01097 ANTIMONY	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI	10	903.000	266490	516.227	.571680	163.245	1720.00	200.000	77/10/25	78/09/19
31616 FEC COLI	10	207.100	53289.2	230.845	1.11465	72.9995	700.000	1.00000	77/10/25	78/09/19
31679 FECSTREP	11	82.4545	5685.67	75.4034	.914484	22.7350	268.000	3.00000	77/10/25	78/09/19
70300 RESIDUE	10	82.0200	1114.76	33.3881	.407072	10.5582	112.000	4.20000	77/10/25	78/09/19
70507 PHOS-T	10	.014000	.000160	.012649	.903510	.004000	.050000	.010000	77/10/25	78/09/19
71900 MERCURY	11	.590909	.090909	.301512	.510250	.090909	1.50000	.500000	77/10/25	78/09/19

2000104
 47 28 30.0 115 55 43.0 2
 PLACER CREEK AT MOUTH
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYP/AMBNT/STREAM

INDEX 1310001 006500 01600 0480
 MILES 0643.00 0167.80 018.40 000.10

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	6.20909	14.2009	3.76841	.606919	1.13622	13.0000	2.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2800.00					2800.00	2800.00	01/01/01	01/01/01
00076 TURR TRRIDMTR HACH FTU	10	1.74000	.542664	.736657	.423366	.232951	3.20000	.900000	77/10/25	78/09/19
00094 CNDUCTVY FIELD MICROMHO	1	70.0000					70.0000	70.0000	78/09/19	78/09/19
00095 CNDUCTVY AT 25C MICROMHO	7	71.4286	309.956	17.6056	.246478	6.65428	103.000	50.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	9	11.8778	1.82199	1.34981	.113642	.449937	13.4000	9.70000	77/10/25	78/09/19
00400 PH SU	2	8.25000	.125000	.353553	.042855	.250000	8.50000	8.00000	77/10/25	77/11/16
00500 RESIDUE TOTAL MG/L	10	59.7900	124.244	11.1465	.186477	3.52483	76.9000	39.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	4.14000	6.45158	2.54000	.613526	.803217	9.00000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.018600	.000452	.021256	1.14280	.006722	.056000	.001000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.001100	.100E-06	.000316	.287485	.000100	.002000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.034000	.000427	.020656	.607527	.006532	.070000	.020000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	.436999	.085823	.292956	.670380	.092641	1.11000	.100000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.039000	.000543	.023310	.597680	.007371	.080000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM CO,TOT UG/L	11	8.54545	110.273	10.5011	1.22885	3.16620	40.0000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	28.1818	436.365	20.8893	.741235	6.29837	50.0000	10.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	4.45454	21.2727	4.61224	1.03540	1.39064	17.0000	1.00000	77/10/25	78/09/19
01097 ANTIMONY SR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	8	9525.00	.580E+08	7616.66	.799649	2692.90	21000.0	200.000	77/12/13	78/09/19
31616 FEC COLI MFH=FCBR /100ML	10	2029.20	5499393	2345.08	1.15567	741.579	7800.00	42.0000	77/10/25	78/09/19
31679 FECSTREP MFH=ENT /100ML	11	192.909	61749.1	248.494	1.28814	74.9236	880.000	.000000	77/10/25	78/09/19
70300 RESIDUE DISS=180 C MG/L	10	47.2700	114.042	10.6790	.225916	3.37701	64.0000	27.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.019000	.000477	.021833	1.14909	.006904	.080000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	.609091	.130909	.361814	.594022	.109091	1.70000	.500000	77/10/25	78/09/19

2000105
 47 29 30.0 115 57 00.0 2
 SF CDA RIVER-SILVERTON-BR E END
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600
 MILES 0643.00 0167.80 016.95

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	7.18182	16.7637	4.09435	.570099	1.23449	15.0000	2.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2700.00					2700.00	2700.00	01/01/01	01/01/01
00076 TURB TRRIDMTR HACH FTU	10	2.38999	1.86102	1.36419	.570794	.431396	5.40000	1.10000	77/10/25	78/09/19
00094 CONDUCTVY FIELD MICROMHO	1	115.000					115.000	115.000	78/09/19	78/09/19
00095 CONDUCTVY AT 25C MICROMHO	7	113.286	2239.25	47.3207	.417711	17.8855	169.000	50.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	9	11.5778	1.39453	1.18090	.101997	.393634	13.6000	9.80000	77/10/25	78/09/19
00400 PH SU	2	8.10000	.080032	.282900	.034926	.200040	8.30000	7.90000	77/10/25	77/11/16
00500 RESIDUE TOTAL MG/L	10	93.9000	576.771	24.0160	.255762	7.59454	126.000	45.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	4.79000	8.70991	2.95125	.616129	.933269	10.0000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.023100	.000308	.017553	.759862	.005551	.059000	.007000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.002000	.888E-06	.000943	.471405	.000298	.004000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.189000	.010232	.101155	.535212	.031988	.400000	.060000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	.555999	.222671	.471880	.848706	.149222	1.85000	.100000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.022000	.000173	.013166	.598438	.004163	.040000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	20.1818	234.764	15.3220	.759200	4.61976	60.0000	6.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	35.4545	387.274	19.6793	.555056	5.93352	60.0000	10.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	2292.18	550734	742.115	.323759	223.756	3130.00	739.000	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	10	579.400	323549	568.813	.981729	179.875	1500.00	38.0000	77/10/25	78/09/19
31616 FEC COLI MFM-FCBR /100ML	11	151.273	47816.0	218.669	1.44553	65.9311	540.000	1.00000	77/10/25	78/09/19
31679 FECSTREP MF H-ENT /100ML	11	34.6363	559.656	23.6570	.683012	7.13287	75.0000	4.00000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	80.8000	293.515	17.1323	.212033	5.41770	95.0000	40.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.010000	.517E-10	.000007	.000719	.000002	.010000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	.590909	.090909	.301512	.510250	.090909	1.50000	.500000	77/10/25	78/09/19

2000106
 47 31 46.0 116 03 01.0 2
 BIG CREEK AT MOUTH
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0240
 MILES 0643.00 0167.80 011.20 000.10
 PARAMETER

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	7.40909	10.9409	3.30771	.446439	.997312	13.0000	4.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2400.00					2400.00	2400.00	01/01/01	01/01/01
00076 TURB TRBIDMTR HACH FTU	10	3.50999	10.4033	3.22541	.918921	1.01996	9.00000	.600000	77/10/25	78/09/19
00094 CONDUCTVY FIELD MICROMHO	1	80.0000					80.0000	80.0000	78/09/19	78/09/19
00095 CONDUCTVY AT 25C MICROMHO	7	164.286	18144.9	134.703	.819932	50.9130	405.000	40.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	9	11.2444	2.41788	1.55495	.138286	.518317	13.2000	9.20000	77/10/25	78/09/19
00400 PH SU	3	7.99999	.310173	.556932	.069616	.321545	8.60000	7.50000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	110.400	7834.05	88.5101	.801722	27.9894	281.000	31.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	5.05000	7.97614	2.82421	.559249	.893092	10.0000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.041200	.008871	.094187	2.28610	.029785	.306000	.001000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.033700	.002695	.051912	1.54043	.016416	.140000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.152000	.021262	.145816	.959316	.046111	.510000	.020000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	.513999	.103538	.321773	.626018	.101754	1.20000	.100000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.085000	.010961	.104695	1.23171	.033108	.310000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	109.545	27311.5	165.262	1.50861	49.8283	450.000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	7.09091	36.0909	6.00757	.847222	1.81135	25.0000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	28.1818	436.365	20.8893	.741235	6.29837	50.0000	10.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	4.72727	26.2182	5.12037	1.08315	1.54385	18.0000	1.00000	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	69.5454	7892.47	88.8396	1.27743	26.7861	265.000	10.0000	77/10/25	78/09/19
31501 TOT COLI HFIMENDO /100ML	11	64.9091	13746.5	117.245	1.80630	35.3508	318.000	1.00000	77/10/25	78/09/19
31616 FEC COLI MFM-FCCR /100ML	11	1.72727	6.01819	2.45320	1.42027	.739667	7.00000	.000000	77/10/25	78/09/19
31679 FECSTREP MF M-ENT /100ML	11	10.9091	490.091	22.1380	2.02931	6.67485	59.0000	.000000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	91.6000	5160.94	71.8397	.784276	22.7177	230.000	29.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.032000	.001396	.037357	1.16741	.011813	.120000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	.900000	.364000	.603324	.670360	.181909	2.40000	.500000	77/10/25	78/09/19

2000107
 47 32 12.0 116 07 07.0 2
 MILO CK AT MOUTH-KELLOGG BR
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0140
 MILES 0643.00 0167.80 007.80 007.80

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	7.86364	14.3046	3.78214	.480965	1.14036	15.0000	4.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2320.00					2320.00	2320.00	01/01/01	01/01/01
00076 TURR TRBDMTR HACH FTU	10	19.2300	982.086	31.3383	1.62965	9.91003	100.000	1.40000	77/10/25	78/09/19
00095 CONDUCTVY AT 25C MICROMHO	7	101.000	2205.67	46.9645	.464995	17.7509	191.000	35.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DU MG/L	10	11.1100	3.11222	1.76415	.158789	.557873	13.8000	8.00000	77/10/25	78/09/19
00400 PH SU	2	8.14999	.005188	.072028	.008838	.050931	8.20000	8.10000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	122.100	5495.22	74.1297	.607123	23.4419	291.000	36.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	40.3700	6397.04	79.9815	1.98121	25.2924	257.000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.083400	.025826	.160706	1.92693	.050820	.526000	.001000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.001500	.277E-06	.000527	.351366	.000167	.002000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.342000	.118884	.344796	1.00818	.109034	1.20000	.090000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	.623000	.132134	.363503	.583472	.114950	1.20000	.200000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.160000	.058111	.241062	1.50664	.076231	.820000	.040000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	12.5455	65.8727	8.11620	.646944	2.44713	37.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	18.7273	761.018	27.5866	1.47307	8.31766	100.000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	11.8182	16.3637	4.04520	.342286	1.21967	20.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	550.000	403200	634.980	1.15451	191.454	1980.00	10.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.11111	.111112	.333335	.300002	.111112	2.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	1233.36	816843	903.794	.732788	272.504	3495.00	412.000	77/10/25	78/09/19
01097 ANTIMONY SR,TOT UG/L	11	11.3636	6.85459	2.61813	.230395	.789395	17.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	7	7501.42	.135E+09	11653.2	1.55347	4404.51	33000.0	200.000	77/10/25	78/09/19
31616 FEC COLI MFM-FCBR /100ML	9	549.889	372179	610.064	1.10943	203.355	2000.00	16.0000	77/10/25	78/09/19
31679 FECSTREP MF M-ENT /100ML	9	257.333	79084.0	281.219	1.09282	93.7396	750.000	10.0000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	68.6000	740.714	27.2161	.396736	8.60648	123.000	24.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.023000	.000312	.017670	.768252	.005588	.060000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	10	.520000	.004000	.063246	.121626	.020000	.700000	.500000	77/10/25	78/09/19

2000108
 47 32 54.0 116 08 12.0 2
 SF CDA RIVER ON NEWSTREET-KELLOG
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600
 MILES 0643.00 0167.80 006.90

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	8.63636	24.9046	4.99045	.577841	1.50468	19.0000	3.50000	77/10/25	78/09/19
00042 ALTITUDE FEET	1	2300.00					2300.00	2300.00	01/01/01	01/01/01
00076 TURB TRBDMTR HACH FTU	10	2.89999	2.62669	1.62071	.558865	.512512	5.60000	1.10000	77/10/25	78/09/19
00094 CONDUCTVY FIELD MICROMHO	1	150.000					150.000	150.000	78/09/19	78/09/19
00095 CONDUCTVY AT 25C MICROMHO	7	131.000	2755.33	52.4913	.400697	19.8398	213.000	60.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	10	11.0800	2.78182	1.66788	.150531	.527430	13.2000	8.30000	77/10/25	78/09/19
00400 PH SU	3	8.23333	.053543	.231394	.028105	.133595	8.50000	8.10000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	103.300	736.021	27.1297	.262630	8.57917	140.000	47.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	7.48000	72.0817	8.49010	1.13504	2.68480	26.8000	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	9	.022000	.000824	.028705	1.30479	.009568	.094000	.001000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.005300	.000011	.003302	.622925	.001044	.010000	.002000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.183000	.007290	.085382	.466568	.027000	.310000	.060000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	9	.592222	.090895	.301487	.509079	.100496	.990000	.140000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.025000	.000161	.012693	.507718	.004014	.040000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	17.6363	90.2550	9.50026	.538675	2.86444	35.0000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	14.6364	43.0546	6.56160	.448308	1.97840	30.0000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	10.0000	.000000	.000000		.000000	10.0000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	57.7273	2156.82	46.4416	.804500	14.0027	160.000	10.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	1917.64	236800	486.621	.253761	146.722	2560.00	749.000	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	18.5454	90.0733	9.49070	.511754	2.86155	33.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDN /100ML	11	169.000	35457.8	188.302	1.11421	56.7753	600.000	1.00000	77/10/25	78/09/19
31616 FEC COLI MFH-FCBR /100ML	11	52.6363	3981.46	63.0988	1.19877	19.0250	180.000	1.00000	77/10/25	78/09/19
31679 FECSTREP MF M-ENT /100ML	11	41.5454	6172.27	78.5638	1.89103	23.6879	270.000	1.00000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	79.3000	874.681	29.5750	.372951	9.35244	117.000	23.0000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.010000	.517E-10	.000007	.000719	.000002	.010000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	9	.588889	.053611	.231541	.393183	.077180	1.20000	.500000	77/10/25	78/09/19

2000109
 47 32 55.0 116 09 29.0 2
 BUNKER CK AT MOUTH AT FLUME
 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0080
 MILES 0643.00 0167.80 005.40 000.10

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	10	12.3500	56.4473	7.51314	.608351	2.37586	27.0000	4.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AR MSL	1	2240.00					2240.00	2240.00	01/01/01	01/01/01
00076 TURB TRRIDMTR HACH FTU	10	37.7500	2926.52	54.0973	1.43304	17.1071	150.000	2.10000	77/10/25	78/09/19
00094 CNDUCTVY FIELD MICROMHO	1	1700.00					1700.00	1700.00	78/09/19	78/09/19
00095 CNDUCTVY AT 25C MICROMHO	7	1328.29	193290	439.648	.330989	166.171	1900.00	837.000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	10	9.63000	3.07791	1.75440	.182180	.554789	12.0000	6.70000	77/10/25	78/09/19
00400 PH SU	3	7.96666	.093430	.305662	.038368	.176474	8.30000	7.70000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	1819.60	644053	802.529	.441047	253.782	3806.00	1000.00	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	331.020	509120	713.526	2.15554	225.637	2304.00	5.30000	77/10/25	78/09/19
00610 NH3+NH4-N TOTAL MG/L	10	.907899	.151061	.388665	.428093	.122907	1.76300	.258000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.017400	.000562	.023703	1.36223	.007495	.080000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.985000	.211783	.460199	.467207	.145528	1.87000	.450000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	1.95000	.866921	.931086	.477481	.294435	3.70000	.820000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	.375000	.380272	.616662	1.64443	.195006	2.10000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	59.0000	6304.80	79.4028	1.34581	23.9408	280.000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	507.636	414562	643.864	1.26836	194.132	2385.00	60.0000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	26.3636	1345.46	36.6804	1.39133	11.0596	110.000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	194.636	120796	347.558	1.78568	104.793	1085.00	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	1464.00	.100E+08	3169.93	2.16525	955.769	10920.0	51.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	8	2.75000	2.50000	1.58114	.574959	.559017	5.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	18719.1	.112E+10	33614.0	1.79570	10135.0	118800	2750.00	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	24.0909	252.692	15.8963	.659846	4.79291	56.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	10	62.8000	2536.18	50.3605	.801919	15.9254	140.000	.000000	77/10/25	78/09/19
31616 FEC COLI MFH=FCBR /100ML	11	24.7273	5130.22	71.6255	2.89662	21.5959	240.000	.000000	77/10/25	78/09/19
31679 FECSTREP MFH=ENT /100ML	10	7.40000	94.7111	9.73196	1.31513	3.07752	26.0000	.000000	77/10/25	78/09/19
70300 RESIDUE DISS=180 C MG/L	10	1418.80	169212	411.354	.289931	130.082	2008.00	610.000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.058000	.005618	.074952	1.29227	.023702	.230000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	2.40000	3.56601	1.88839	.786829	.569370	6.00000	.500000	77/10/25	78/09/19

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 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21IDSURV 780414
 0000 CLASS 00

/TYPA/AMBNT/STREAM

INDEX 1310001 006500 01600 0060
 MILES 0643.00 0167.80 005.00 000.10

PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	11.3636	43.6546	6.60716	.581430	1.99213	28.0000	6.00000	77/10/25	78/09/19
00042 ALTITUDE FEET AB MSL	1	2240.00					2240.00	2240.00	01/01/01	01/01/01
00076 TURB TRPTDMTR HACH FTU	10	86.6299	10271.4	101.348	1.16990	32.0491	270.000	6.10000	77/10/25	78/09/19
00094 CONDUCTVY FIELD MICROMHO	1	750.000					750.000	750.000	78/09/19	78/09/19
00095 CONDUCTVY AT 25C MICROMHO	7	629.143	204559	452.282	.718886	170.947	1464.00	125.000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	17	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	9	10.1444	2.37036	1.53960	.151768	.513199	12.4000	7.90000	77/10/25	78/09/19
00400 PH SU	2	4.65000	.845001	.919239	.197686	.650001	5.30000	4.00000	77/10/25	77/11/16
00500 RESIDUE TOTAL MG/L	10	1676.40	5442890	2333.00	1.39167	737.760	7096.00	123.000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	1150.20	5453569	2335.29	2.03033	738.483	6816.00	5.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	10	.630199	.322369	.567776	.900946	.179546	1.85000	.107000	77/10/25	78/09/19
00615 NO2-N TOTAL MG/L	10	.009600	.000134	.011578	1.20602	.003661	.036000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	1.38700	1.32453	1.15088	.829765	.363941	4.24000	.450000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	10	2.47600	10.1030	3.17852	1.28373	1.00514	9.10000	.700000	77/10/25	78/09/19
00665 PHOS-TOT MG/L P	10	2.03110	2.85361	1.68926	.831700	.534191	5.64000	.090000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	11	94.3636	17301.5	131.535	1.39392	39.6593	350.000	10.0000	77/10/25	78/09/19
01027 CADMIUM CD,TOT UG/L	11	2858.18	5273056	2296.31	.803418	692.364	6290.00	250.000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	80.9091	17529.1	132.397	1.63637	39.9193	400.000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	945.454	2250225	1500.07	1.58662	452.290	4280.00	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	11	7038.73	.273E+09	16534.0	2.34900	4985.18	54700.0	26.0000	77/10/25	78/09/19
01077 SILVER AG,TOT UG/L	9	4.66667	43.7500	6.61438	1.41737	2.20479	20.0000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	62209.1	.181E+10	42553.8	.684045	12830.5	124200	8900.00	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	74.0909	13817.5	117.548	1.58654	35.4420	325.000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDO /100ML	10	7.80000	191.289	13.8307	1.77317	4.37366	40.0000	.000000	77/10/25	78/08/15
31616 FEC COLI MFM=FCBR /100ML	11	24.3636	3710.86	60.9168	2.50032	18.3671	200.000	.000000	77/10/25	78/09/19
31679 FECSTREP MF M=ENT /100ML	10	150.800	224736	474.063	3.14365	149.912	1500.00	.000000	77/10/25	78/09/19
70300 RESIDUE DISS=180 C MG/L	10	465.300	73153.6	270.469	.581279	85.5299	851.000	101.000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	1.27700	1.25093	1.11845	.875841	.353684	2.87000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	2.30000	8.52001	2.91891	1.26909	.880083	10.0000	.500000	77/10/25	78/09/19

2000111
 47 33 00.0 116 13 27.0 2
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 16079 IDAHO
 PACIFIC NORTHWEST 1303
 SPOKANE
 21INSURV 780414
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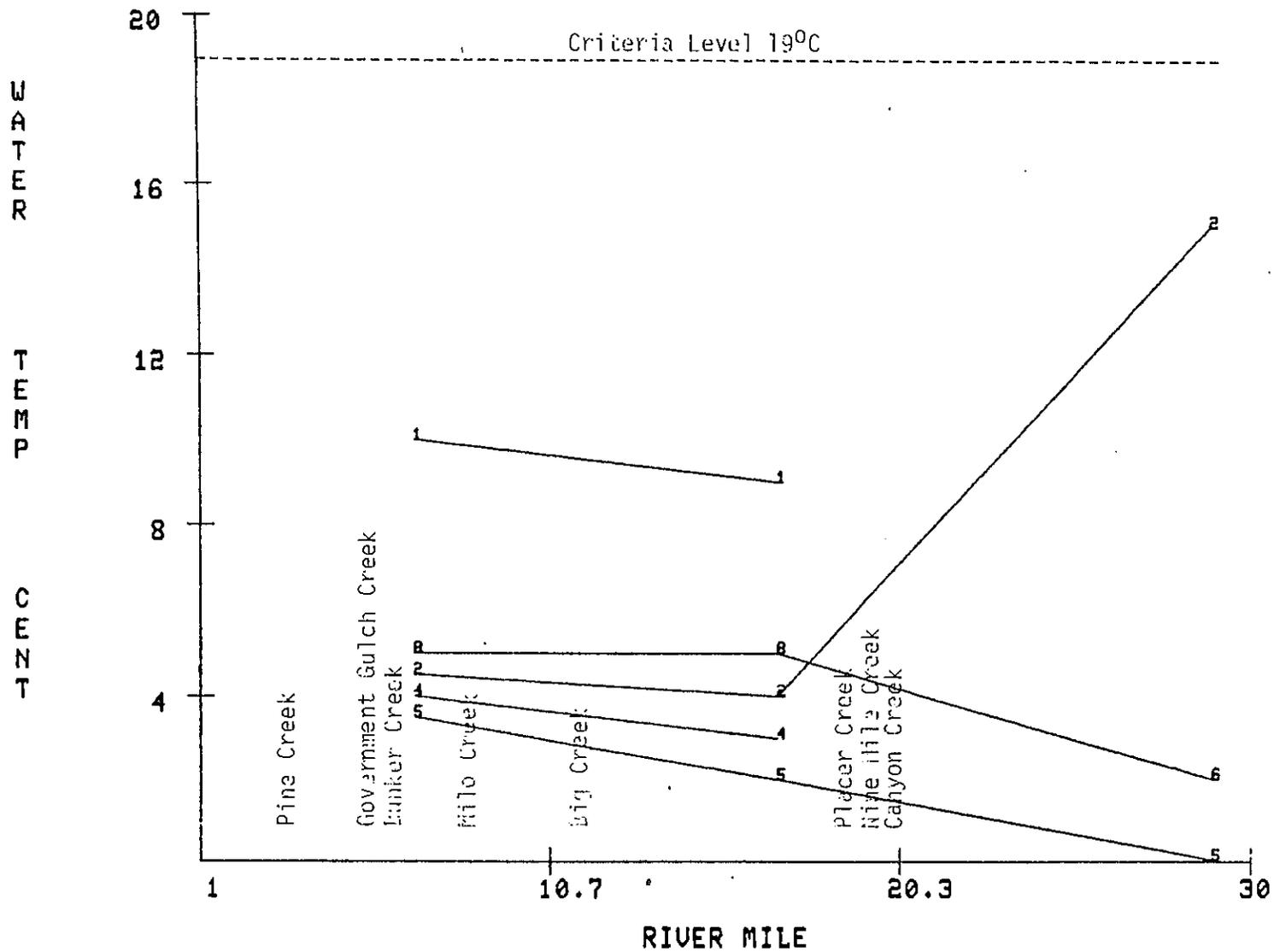
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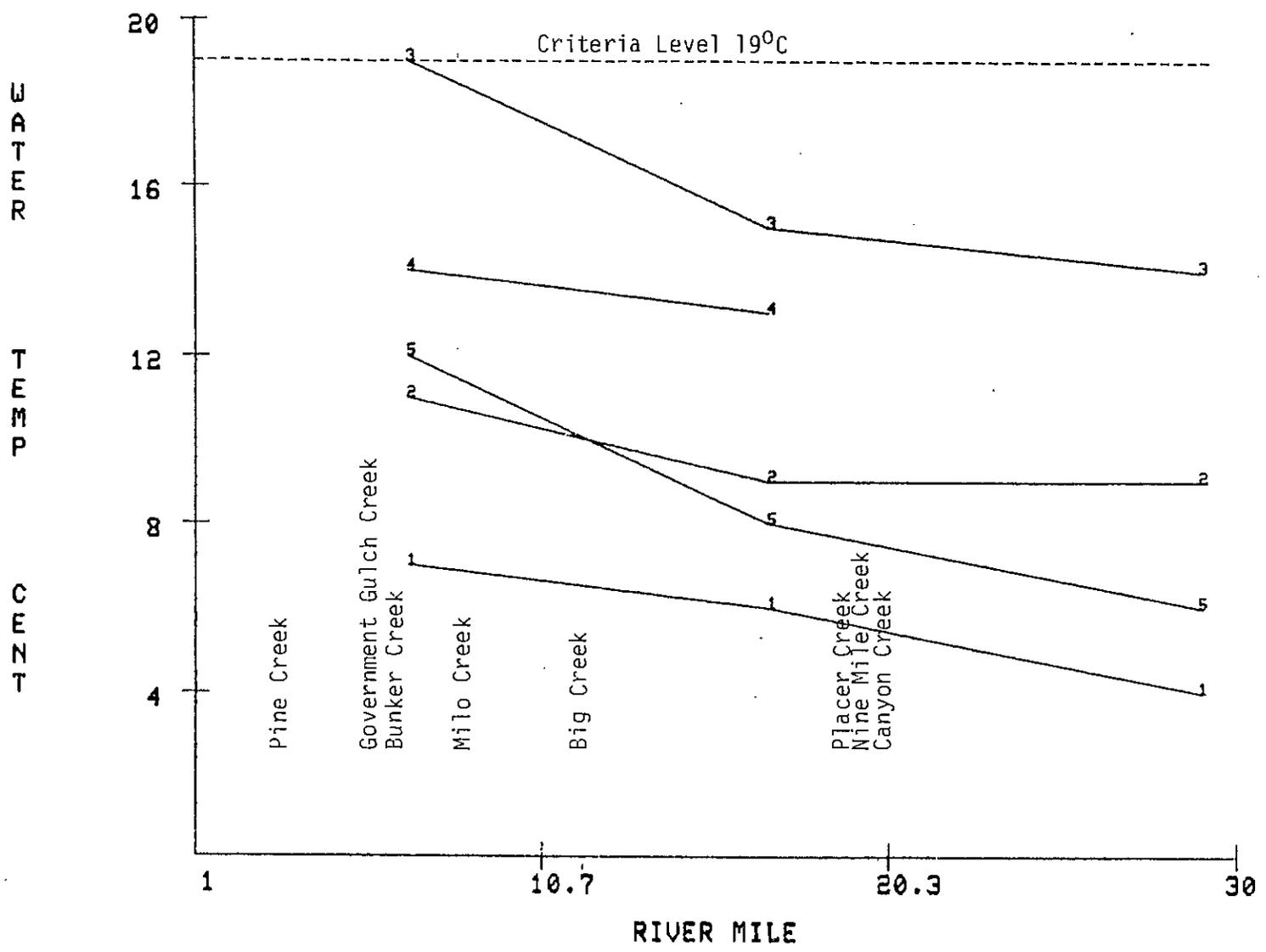
PARAMETER	NUMBER	MEAN	VARIANCE	STAN DEV	COEF VAR	STAND ER	MAXIMUM	MINIMUM	BEG DATE	END DATE
00010 WATER TEMP CENT	11	10.1364	30.6546	5.53666	.546217	1.66936	18.0000	4.00000	77/10/25	78/09/19
00042 ALTITUDE FFET AB MSL	1	2200.00					2200.00	2200.00	01/01/01	01/01/01
00076 TURR TRRIDMTR HACH FTU	10	13.8000	1394.86	37.3478	2.70636	11.8104	120.000	7.00000	77/10/25	78/09/19
00094 CNDUCTVY FIELD MICROMHO	1	50.0000					50.0000	50.0000	78/09/19	78/09/19
00095 CNDUCTVY AT 25C MICROMHO	7	45.7143	422.241	20.5485	.449498	7.76660	86.0000	25.0000	77/10/25	78/09/19
00116 INTNSVE SURVEY IDENT	12	771606	.571E+06	.000000		.000000	771606	771606	01/01/01	78/09/19
00300 DO MG/L	10	10.8700	3.70245	1.92417	.177017	.608477	13.8000	8.20000	77/10/25	78/09/19
00400 PH SU	3	7.70000	.190063	.435963	.056619	.251703	8.00000	7.20000	77/10/25	78/06/14
00500 RESIDUE TOTAL MG/L	10	224.500	341335	584.239	2.60240	184.753	1887.00	24.0000	77/10/25	78/09/19
00530 RESIDUE TOT NFLT MG/L	10	113.420	113953	337.569	2.97627	106.749	1074.00	1.00000	77/10/25	78/09/19
00610 NH3+NH4- N TOTAL MG/L	9	.013333	.000219	.014782	1.10863	.004927	.044000	.001000	77/11/16	78/09/19
00615 NO2-N TOTAL MG/L	10	.001000	.293E-11	.000002	.001712	.541E-06	.001000	.001000	77/10/25	78/09/19
00620 NO3-N TOTAL MG/L	10	.093000	.002779	.052715	.566829	.016670	.200000	.020000	77/10/25	78/09/19
00625 TOT KJEL N MG/L	9	.444444	.037528	.193722	.435874	.064574	.700000	.200000	77/11/16	78/09/19
00665 PHOS-TOT MG/L P	10	.048000	.007951	.089169	1.85768	.028198	.300000	.010000	77/10/25	78/09/19
01002 ARSENIC AS,TOT UG/L	10	13.1000	96.1000	9.80306	.748325	3.10000	41.0000	10.8000	77/10/25	78/09/19
01007 BARIUM BA,TOT UG/L	1	4.00000					4.00000	4.00000	78/08/15	78/08/15
01027 CADMIUM CD,TOT UG/L	11	7.18182	36.3637	6.03023	.839652	1.81818	25.0000	5.00000	77/10/25	78/09/19
01034 CHROMIUM CR,TOT UG/L	11	15.4545	327.273	18.0907	1.17057	5.45455	70.0000	10.0000	77/10/25	78/09/19
01042 COPPER CU,TOT UG/L	11	21.8182	1536.36	39.1965	1.79651	11.8182	140.000	10.0000	77/10/25	78/09/19
01051 LEAD PB,TOT UG/L	10	370.000	1171555	1082.38	2.92536	342.280	3450.00	10.0000	77/10/25	78/09/19
01055 MANGNESE MN UG/L	1	10.0000					10.0000	10.0000	78/06/14	78/06/14
01077 SILVER AG,TOT UG/L	9	1.00000	.000000	.000000		.000000	1.00000	1.00000	77/12/13	78/09/19
01092 ZINC ZN,TOT UG/L	11	282.364	157620	397.014	1.40604	119.704	1475.00	115.000	77/10/25	78/09/19
01097 ANTIMONY SB,TOT UG/L	11	15.6364	248.855	15.7751	1.00887	4.75638	63.0000	10.0000	77/10/25	78/09/19
31501 TOT COLI MFIMENDD /100ML	10	351.000	594742	771.196	2.19714	243.873	2500.00	4.00000	77/10/25	78/09/19
31616 FEC COLI MFM-FCBR /100ML	10	11.1000	490.544	22.1482	1.99534	7.00389	66.0000	.000000	77/10/25	78/09/19
31679 FECSTREP MF M-ENT /100ML	10	38.3000	6255.79	79.0935	2.06511	25.0116	220.000	.000000	77/10/25	78/09/19
70300 RESIDUE DISS-180 C MG/L	10	24.7000	84.2335	9.17788	.371574	2.90230	33.0000	2.00000	77/10/25	78/09/19
70507 PHOS-T ORTHO MG/L P	10	.017000	.000490	.022136	1.30211	.007000	.080000	.010000	77/10/25	78/09/19
71900 MERCURY HG,TOTAL UG/L	11	.545454	.022727	.150756	.276386	.045455	1.00000	.500000	77/10/25	78/09/19

GRAPHICS

SOUTH FORK COEUR D'ALENE SURVEY
INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING
 1 : 10-25-77 2 : 11-16-77 3 : 12-13-77
 4 : 01-17-78 5 : 02-14-78 6 : 03-14-78

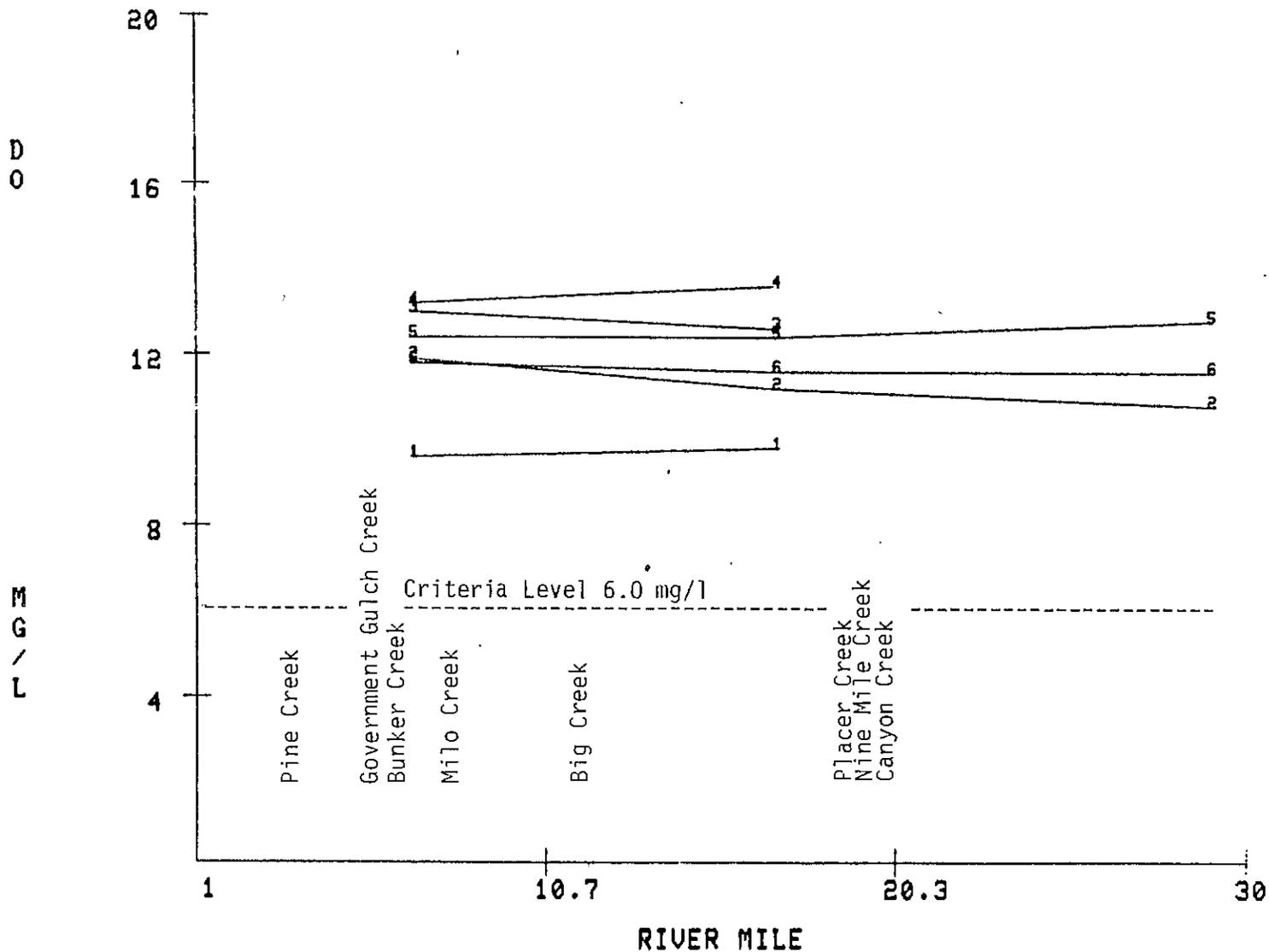


SOUTH FORK COEUR D'ALENE
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 4 : 08-15-78 5 : 09-19-78

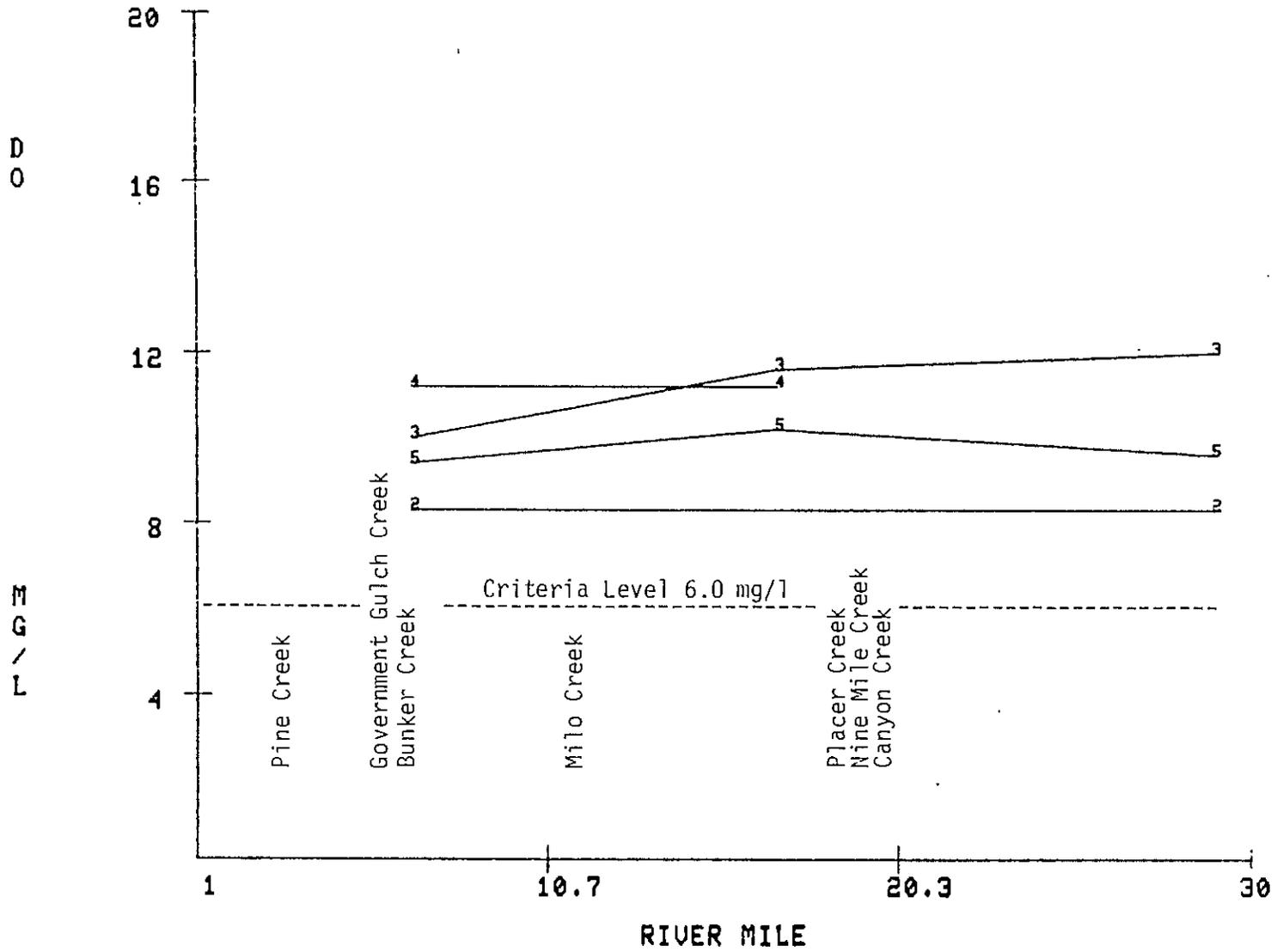


SOUTH FORK COEUR D'ALENE SURVEY
 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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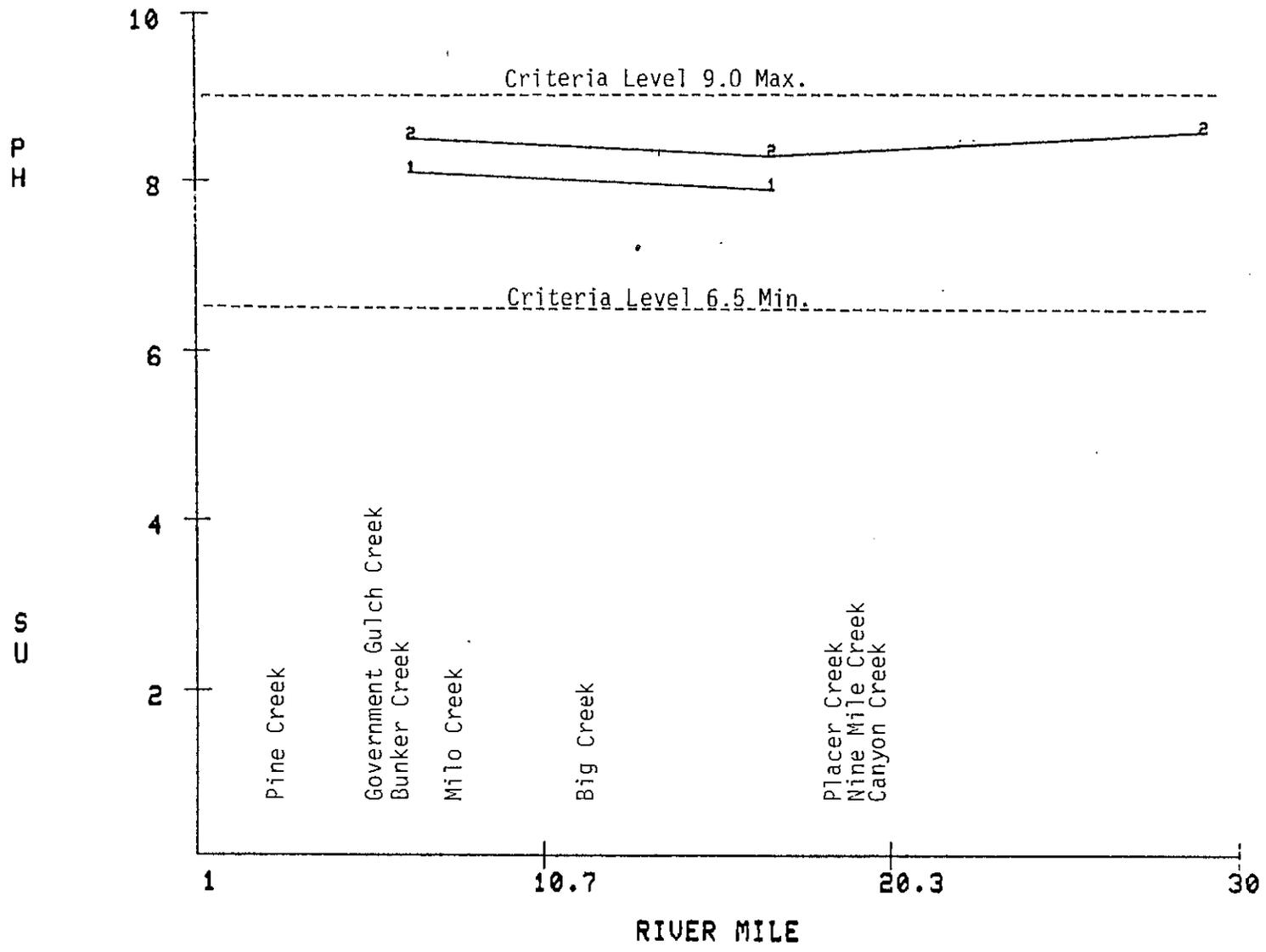


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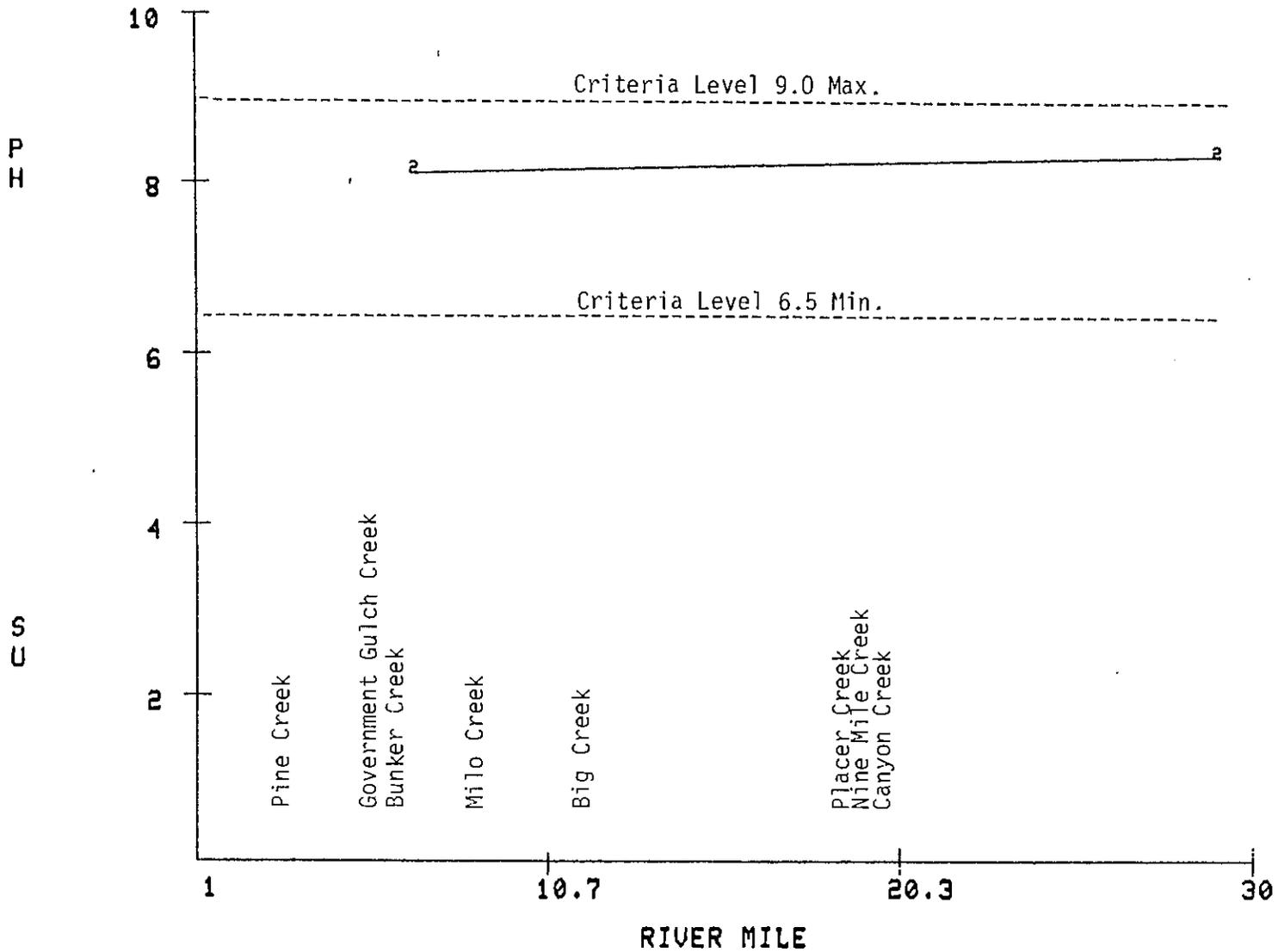


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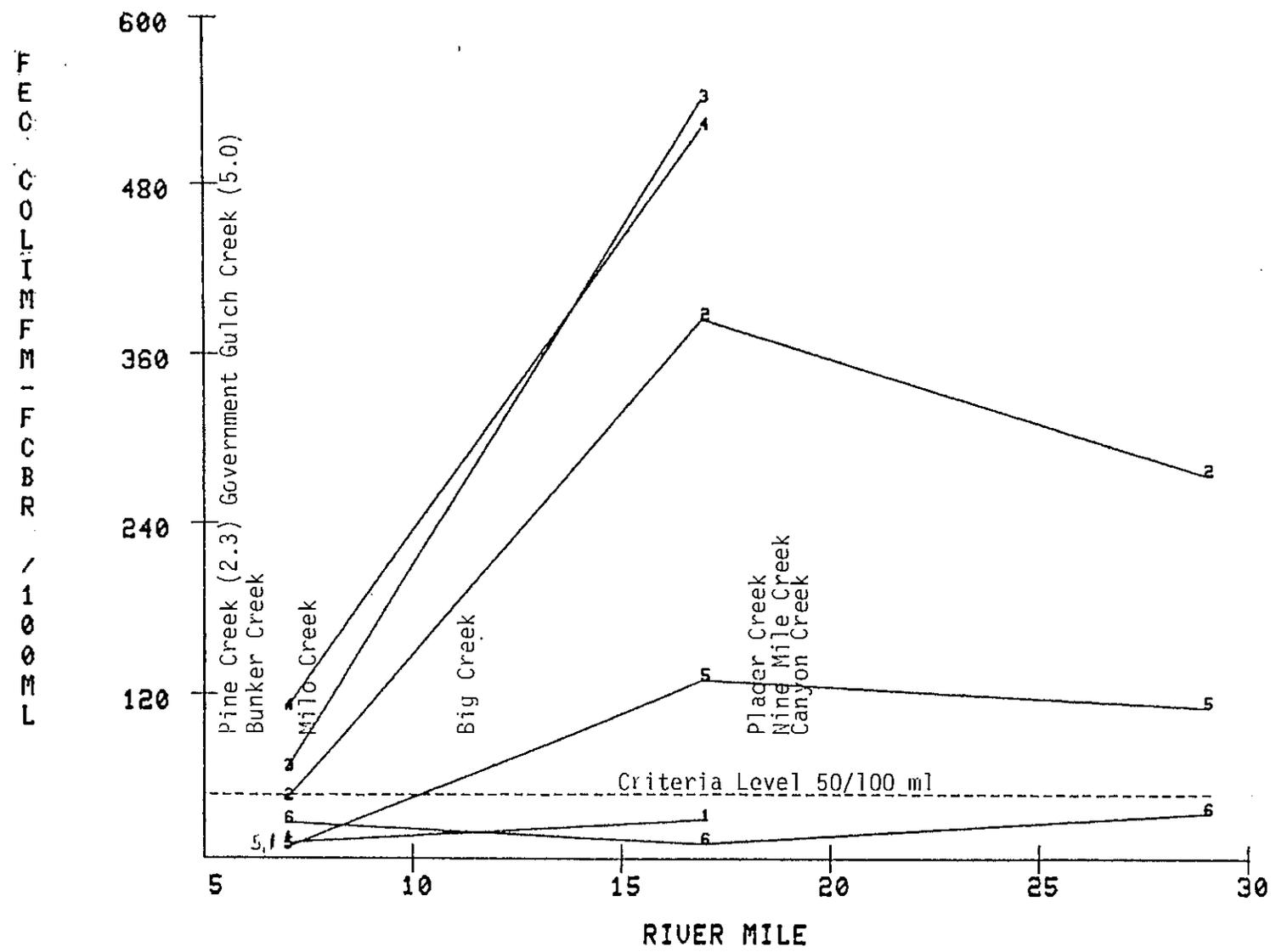


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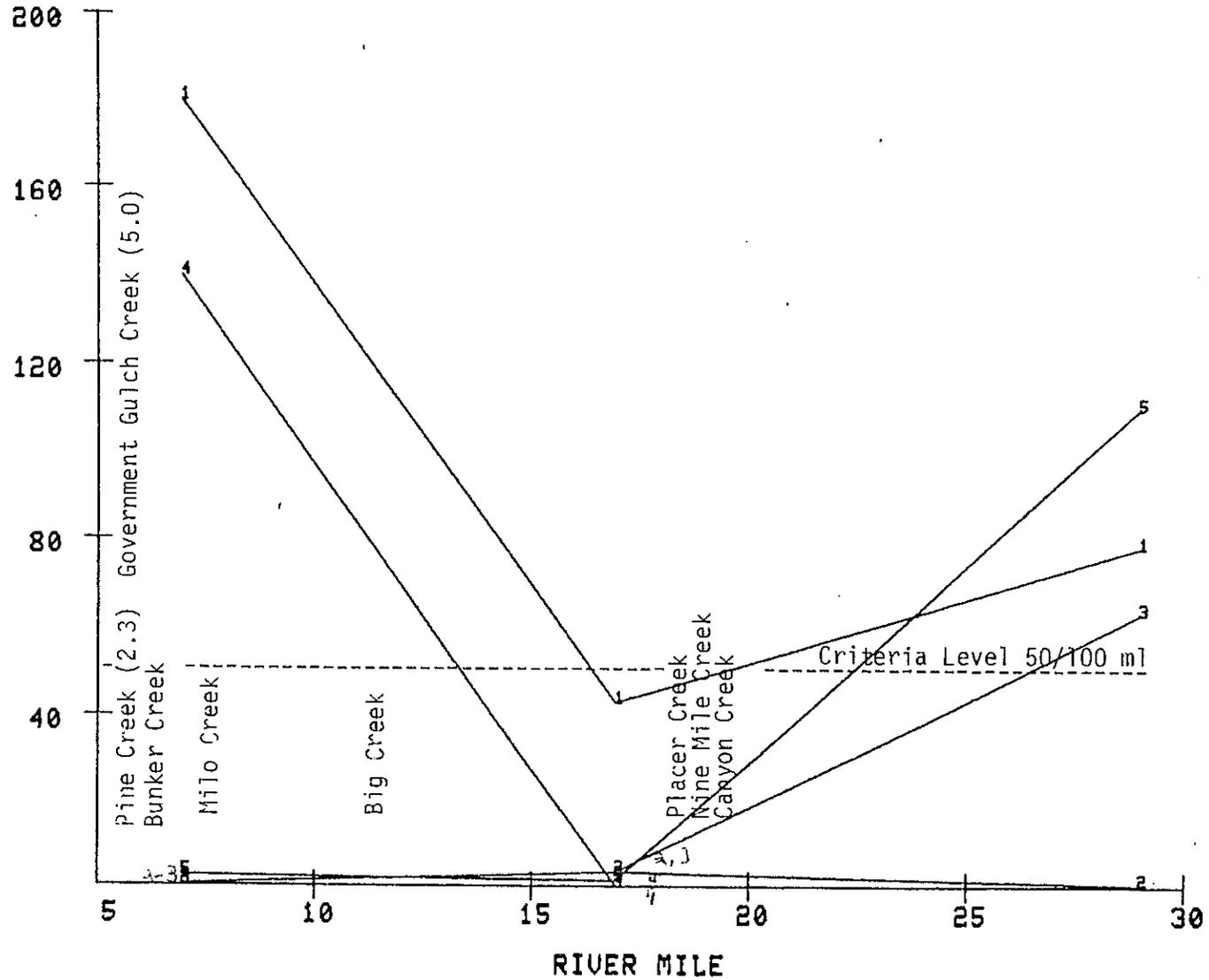
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 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

1 : 10-25-77	2 : 11-16-77	3 : 12-13-77
4 : 01-17-78	5 : 02-14-78	6 : 03-14-78



SOUTH FORK COEUR D'ALENE
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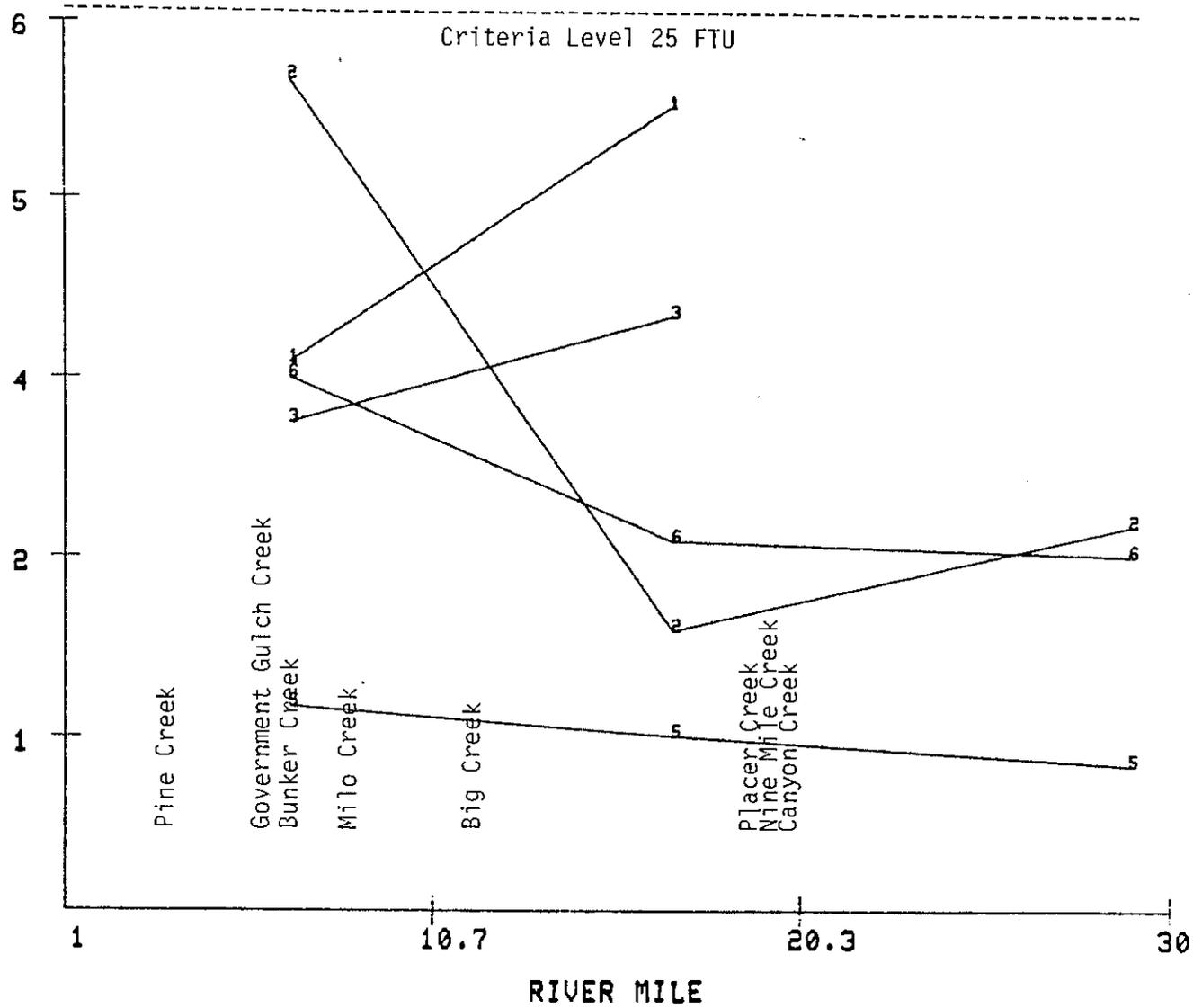
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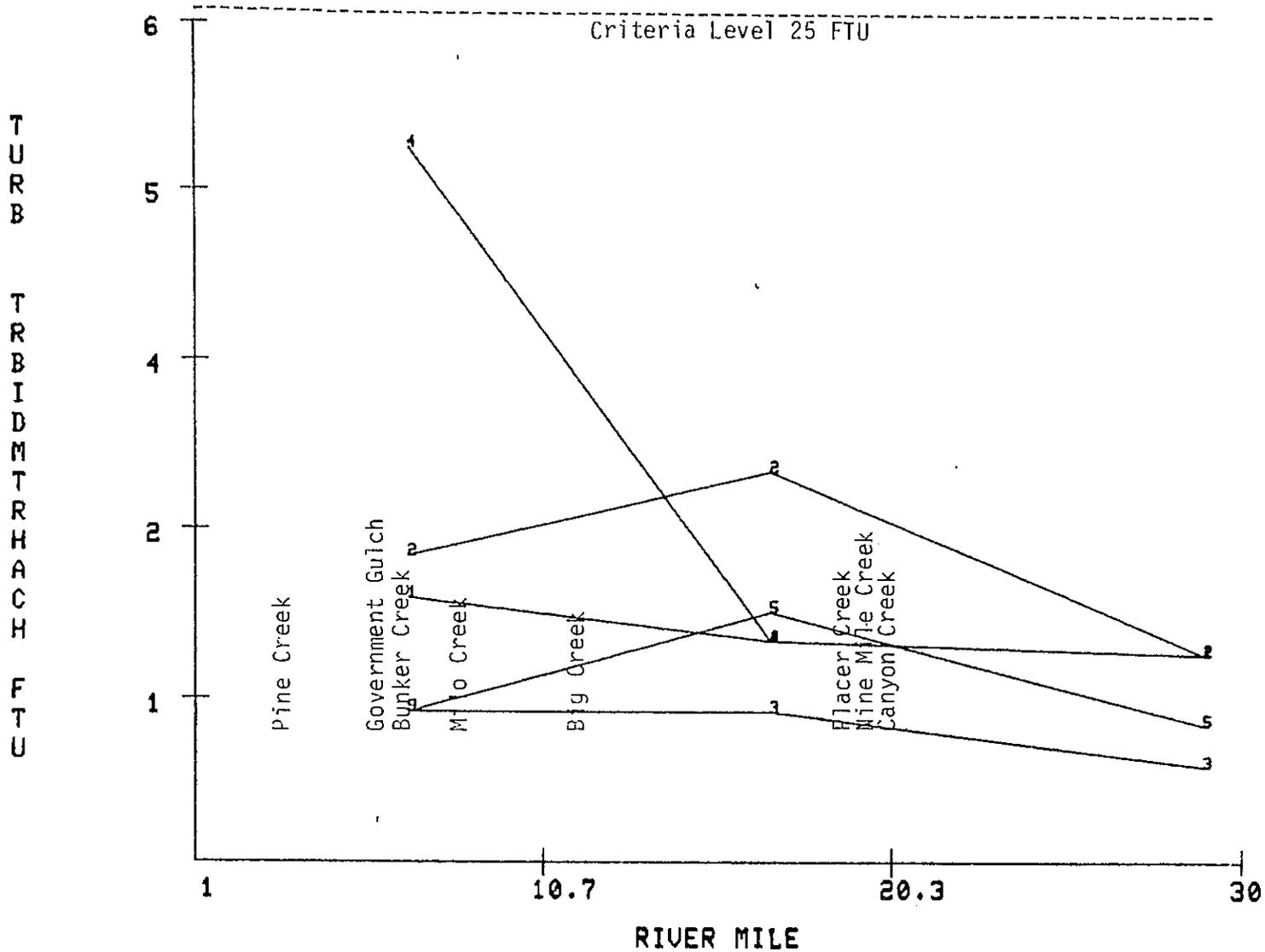
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 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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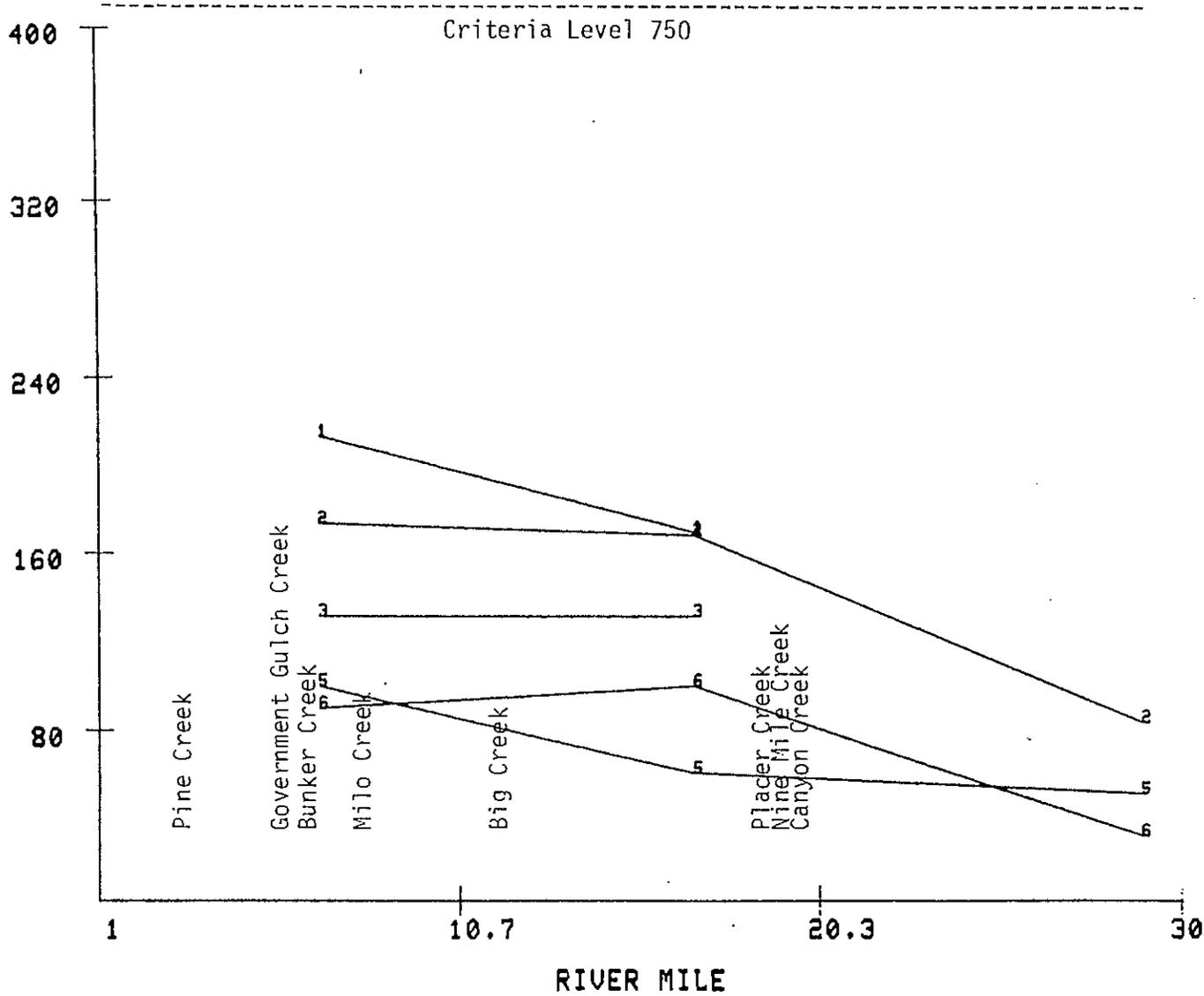
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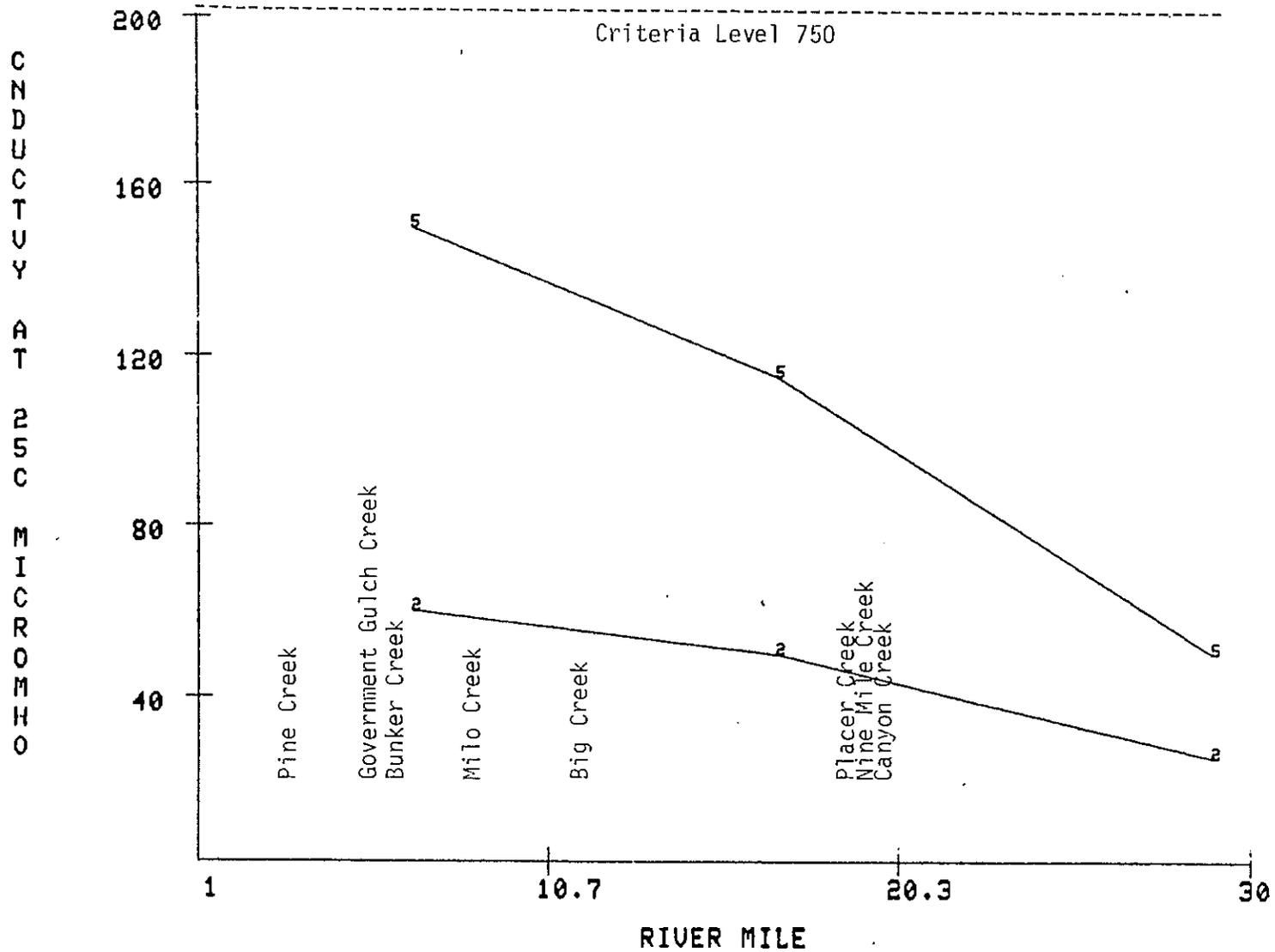
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 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

1 : 10-25-77 2 : 11-16-77 3 : 12-13-77
 4 : 01-17-78 5 : 02-14-78 6 : 03-14-78

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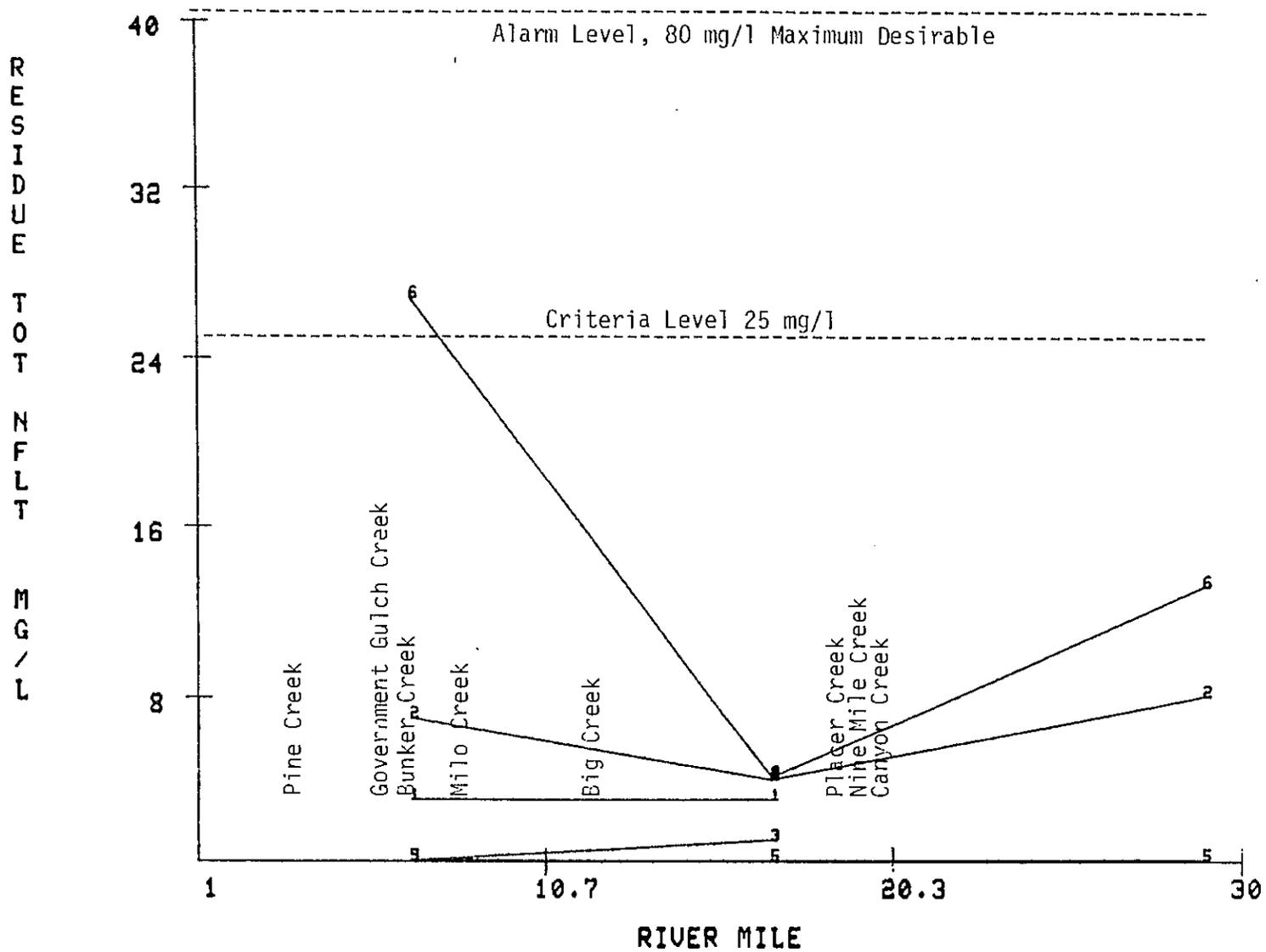


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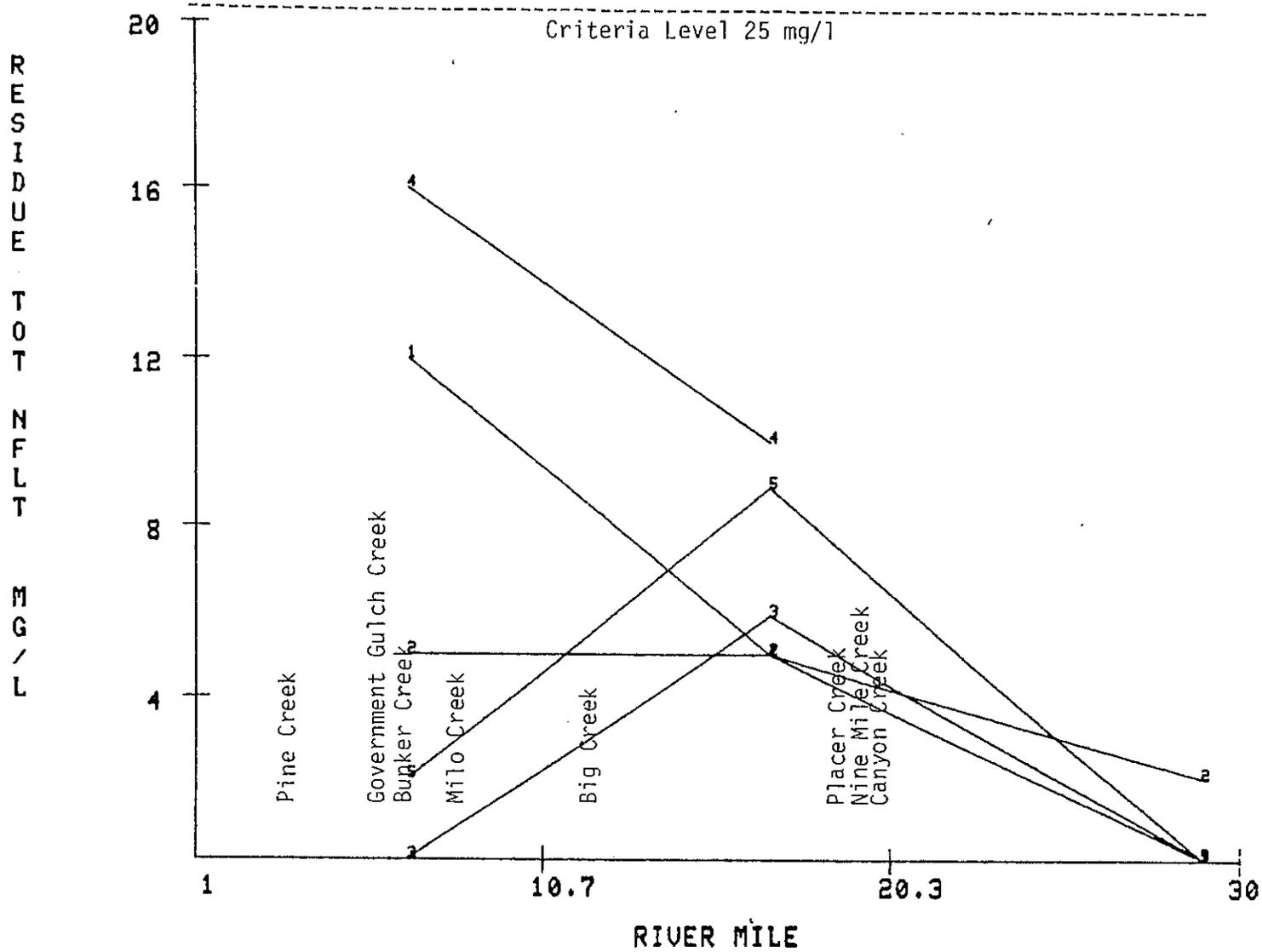


SOUTH FORK COEUR D'ALENE SURVEY
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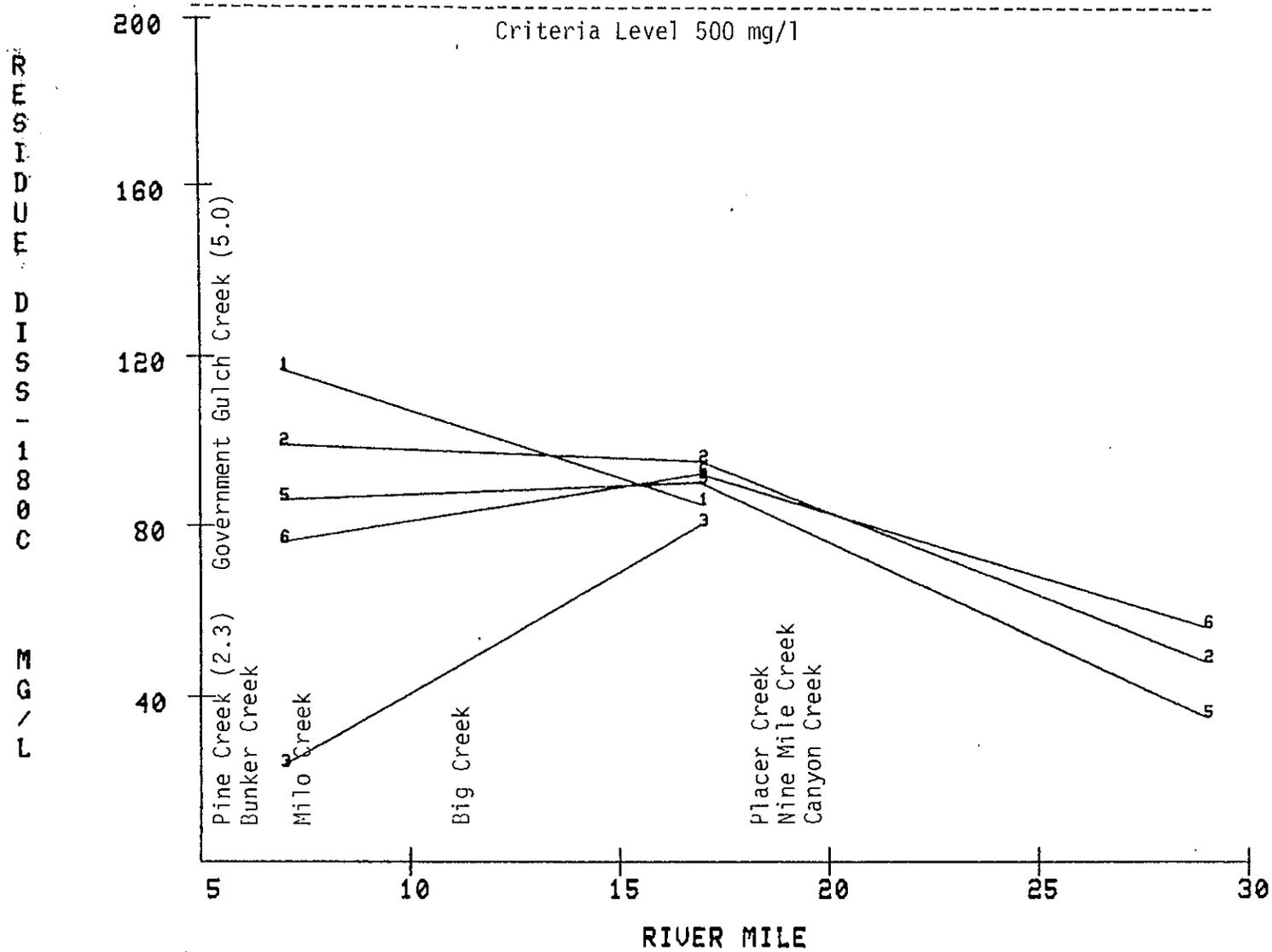


SOUTH FORK COEUR D'ALENE
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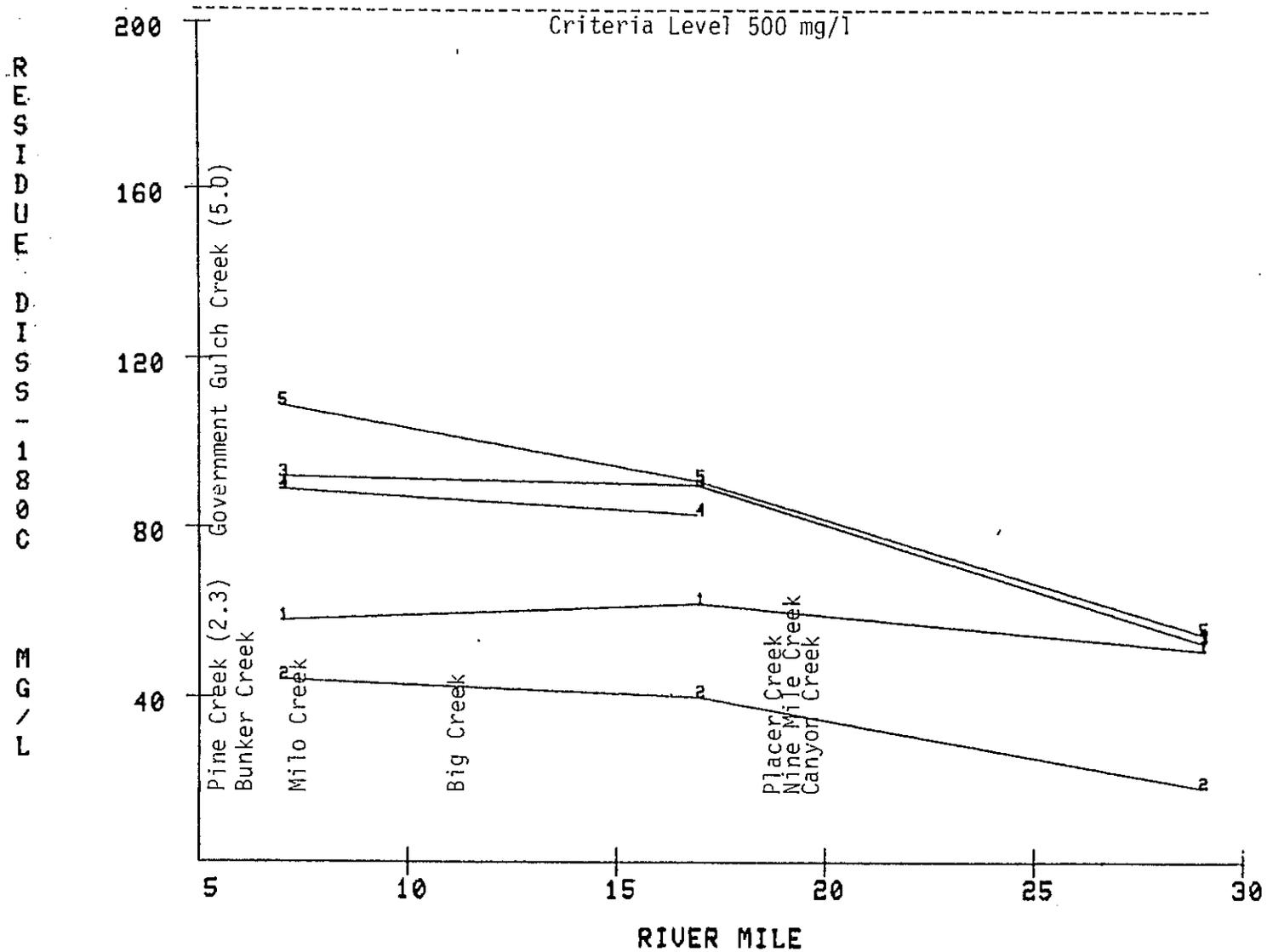


SOUTH FORK COEUR D'ALENE SURVEY
 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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4 : 01-17-78	5 : 02-14-78	6 : 03-14-78

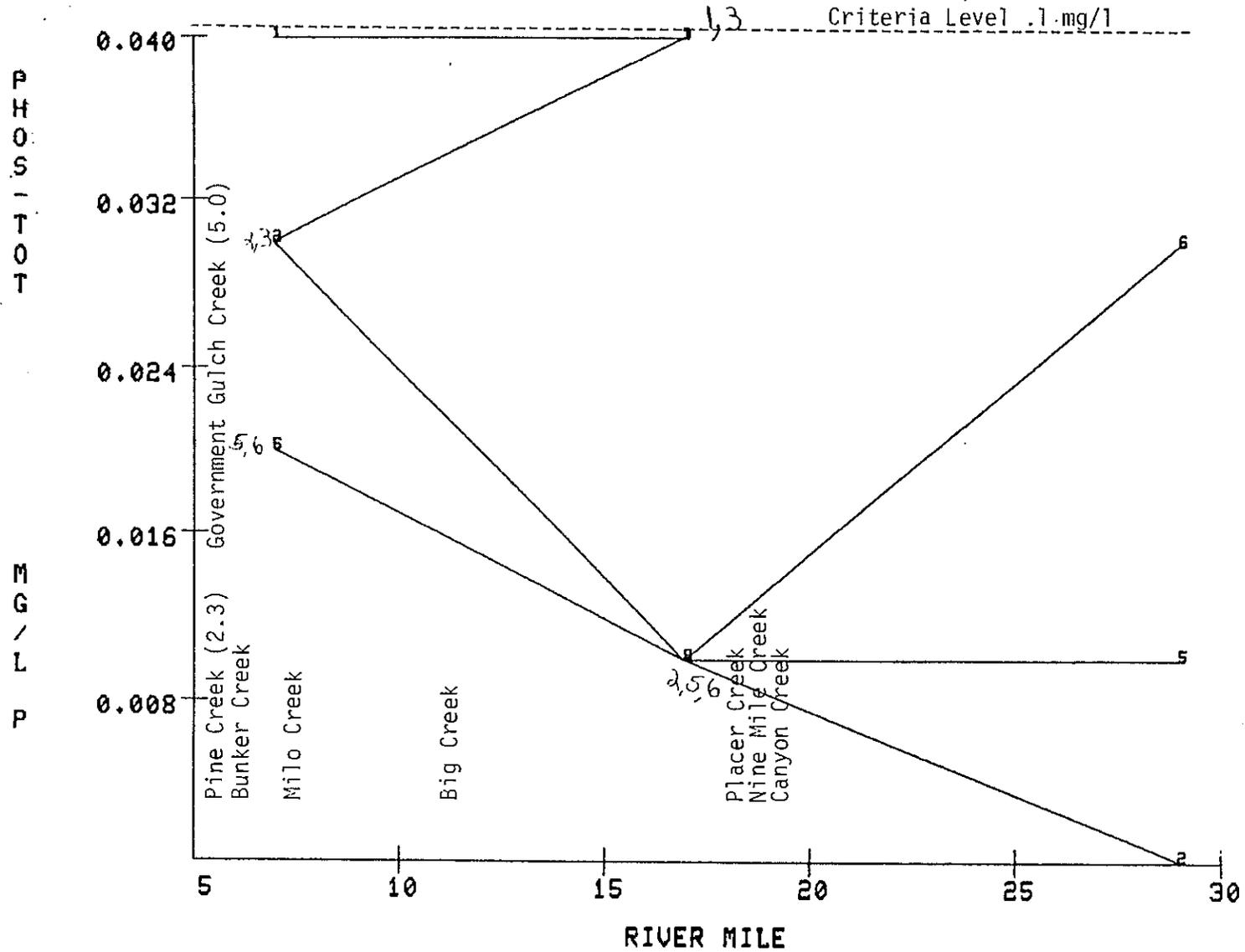


SOUTH FORK COEUR D'ALENE
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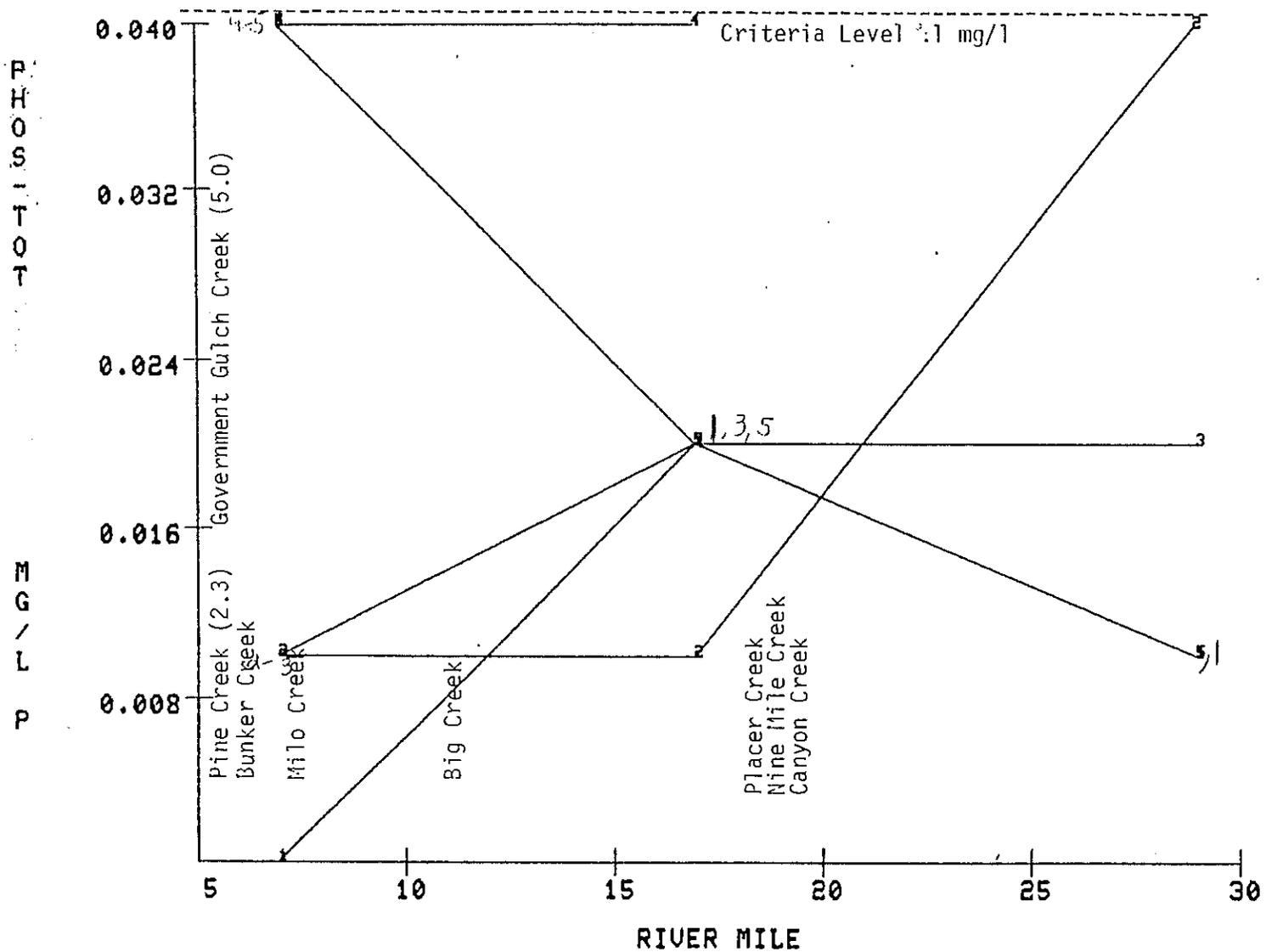


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 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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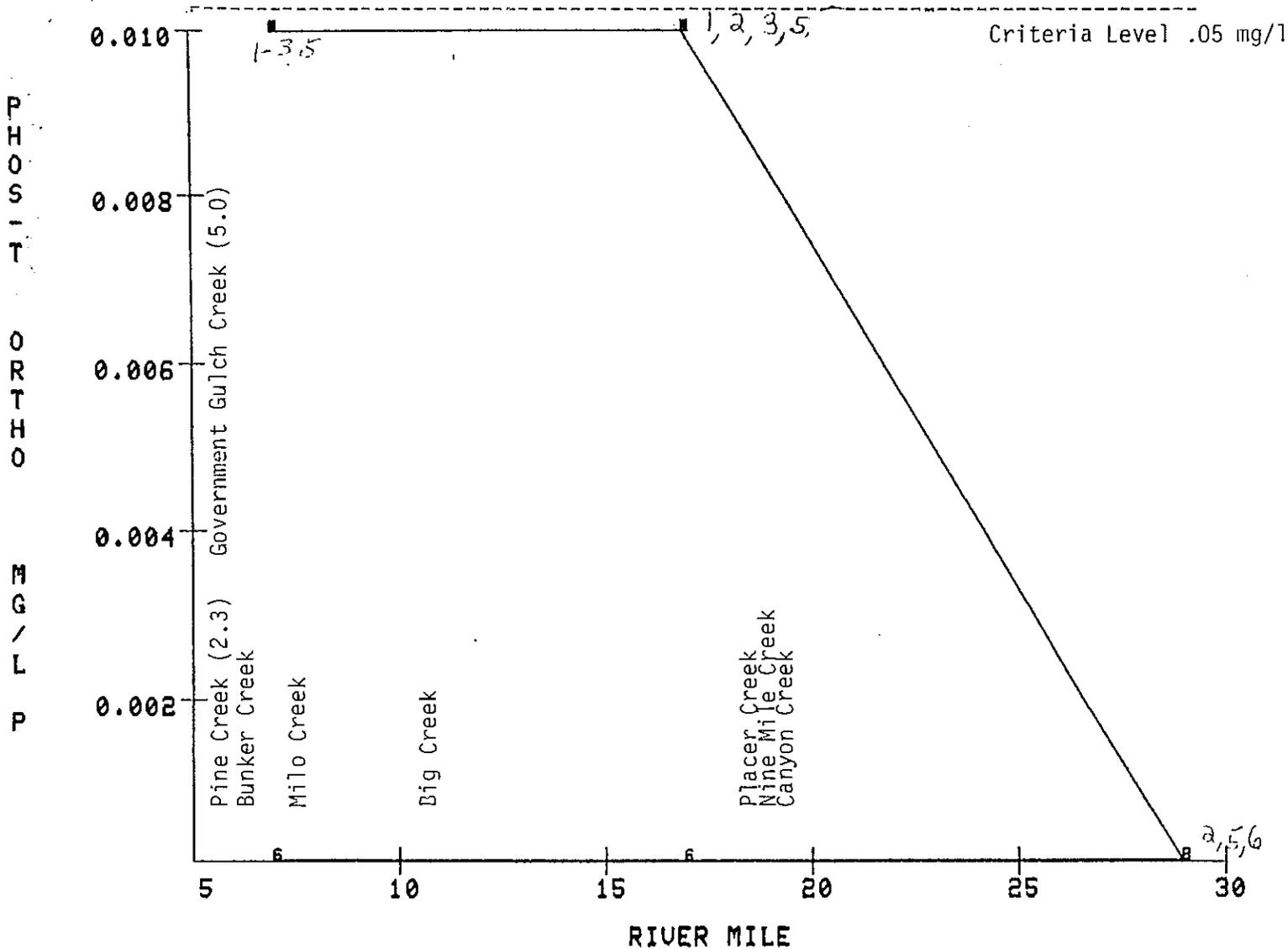


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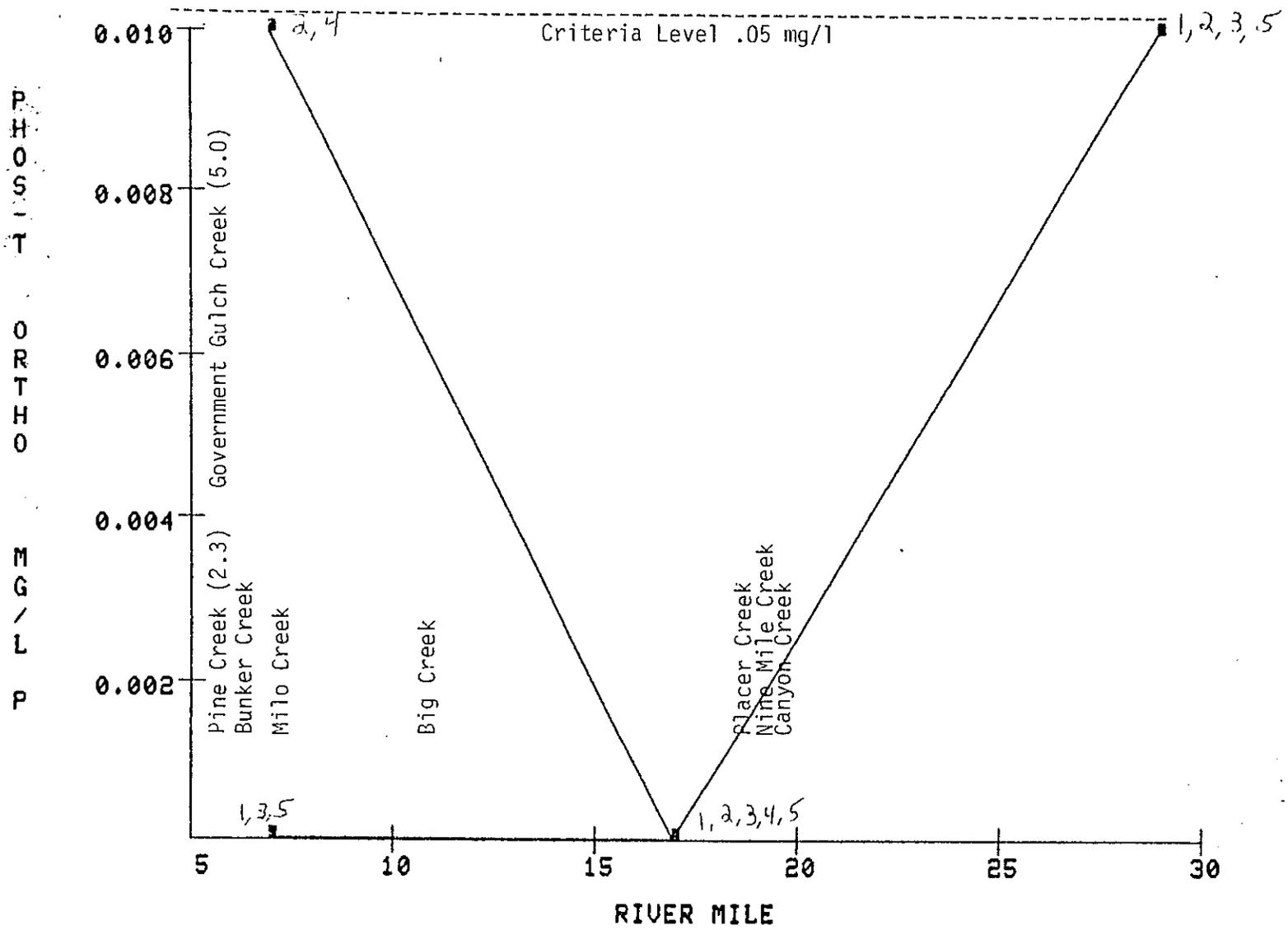


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 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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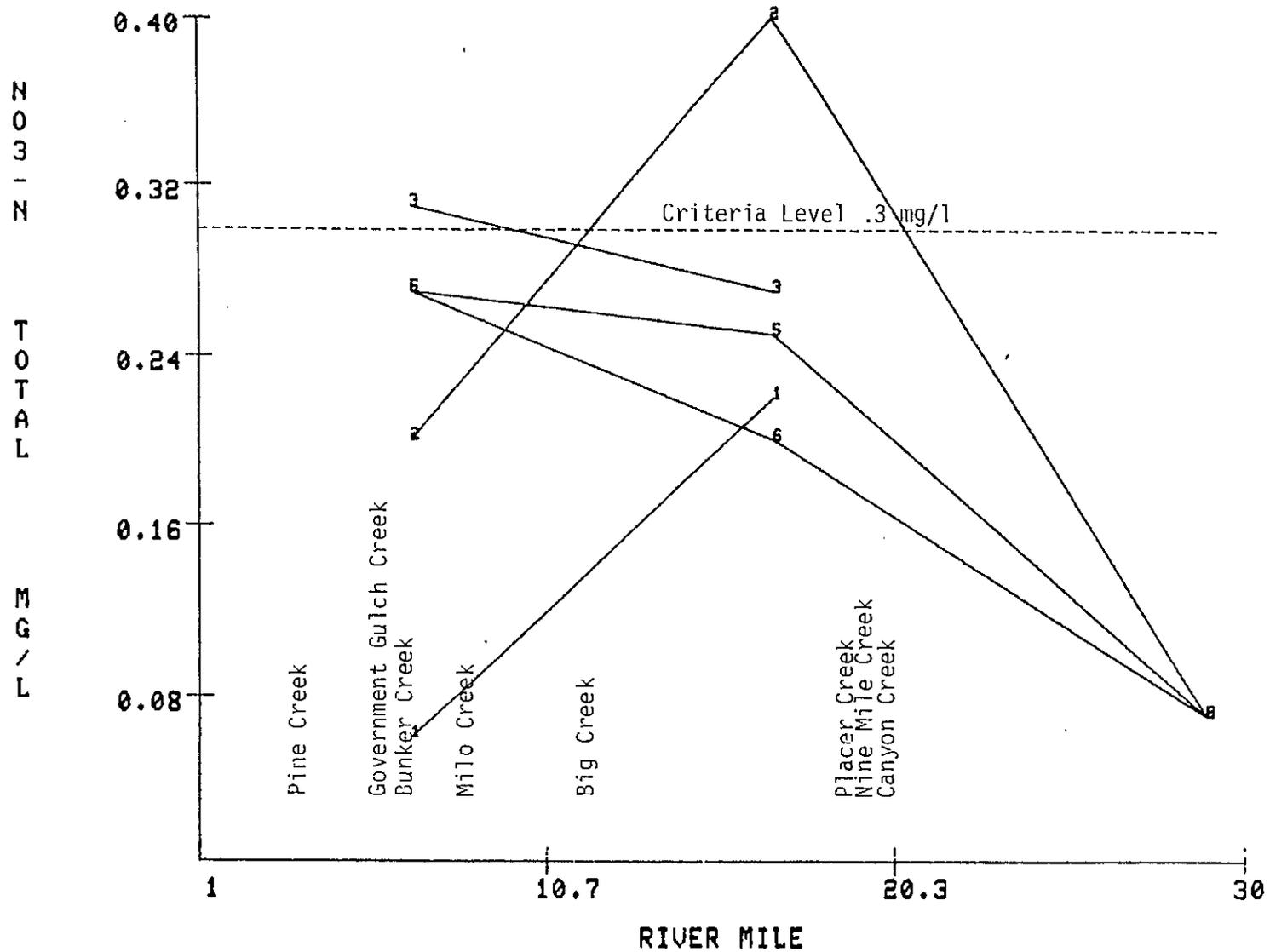


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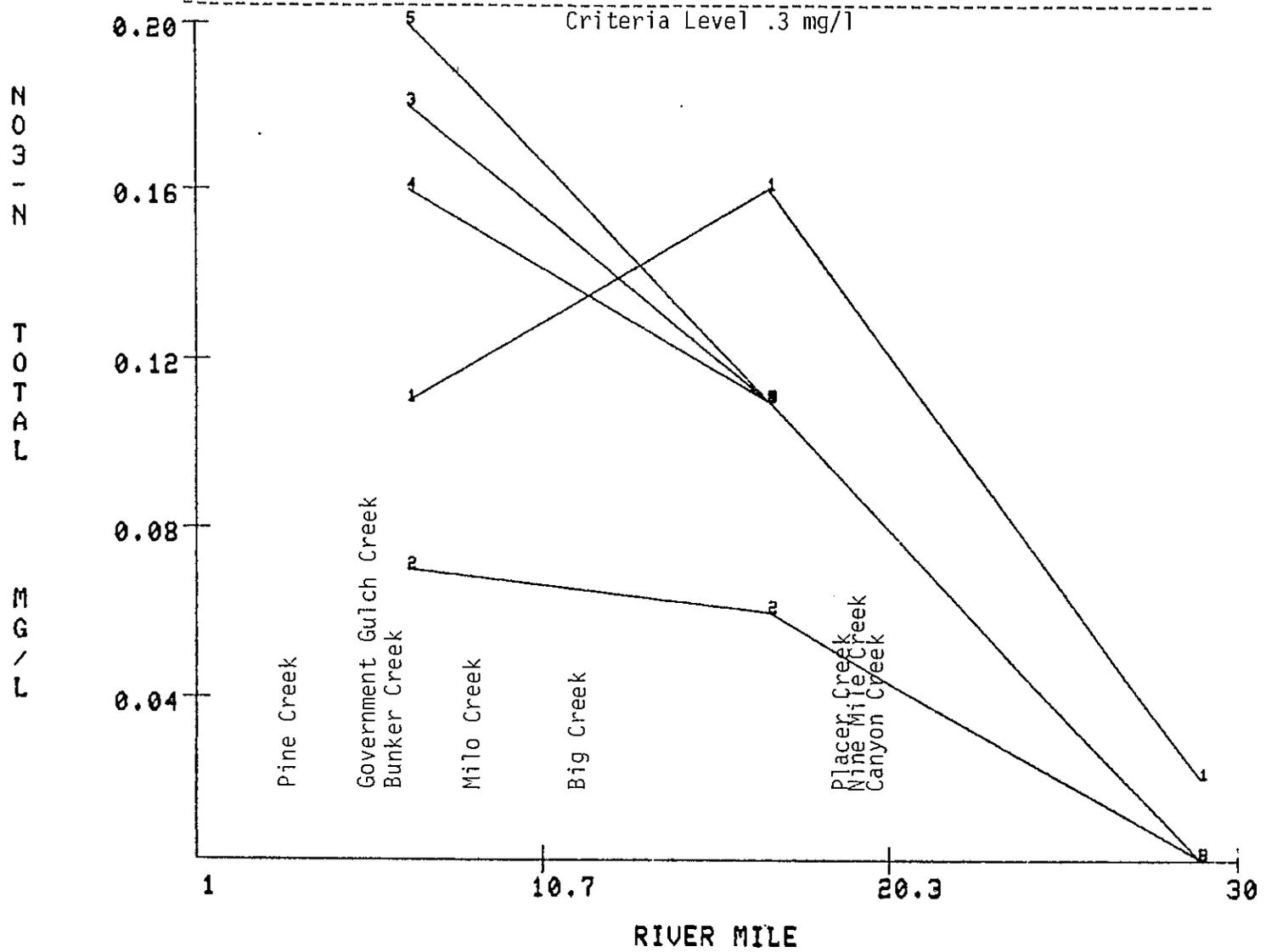


SOUTH FORK COEUR D'ALENE SURVEY
 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

1 : 10-25-77	2 : 11-16-77	3 : 12-13-77
4 : 01-17-78	5 : 02-14-78	6 : 03-14-78



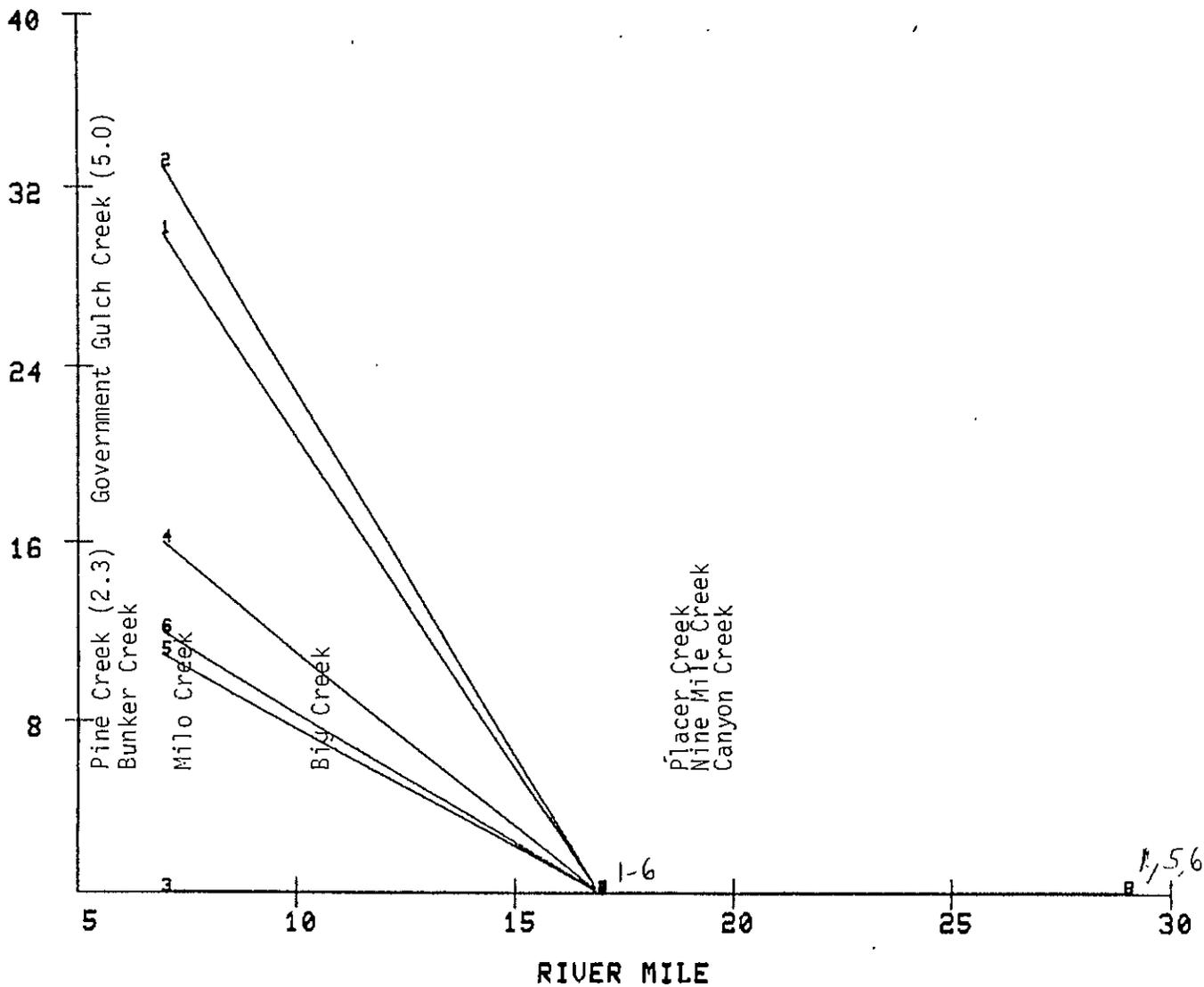
SOUTH FORK COEUR D'ALENE
 INTENSIVE SURVEY DATA FOR 5 DAYS OF MONITORING
 1 : 04-11-78 2 : 06-14-78 3 : 07-25-78
 4 : 08-15-78 5 : 09-19-78



SOUTH FORK COEUR D'ALENE
 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

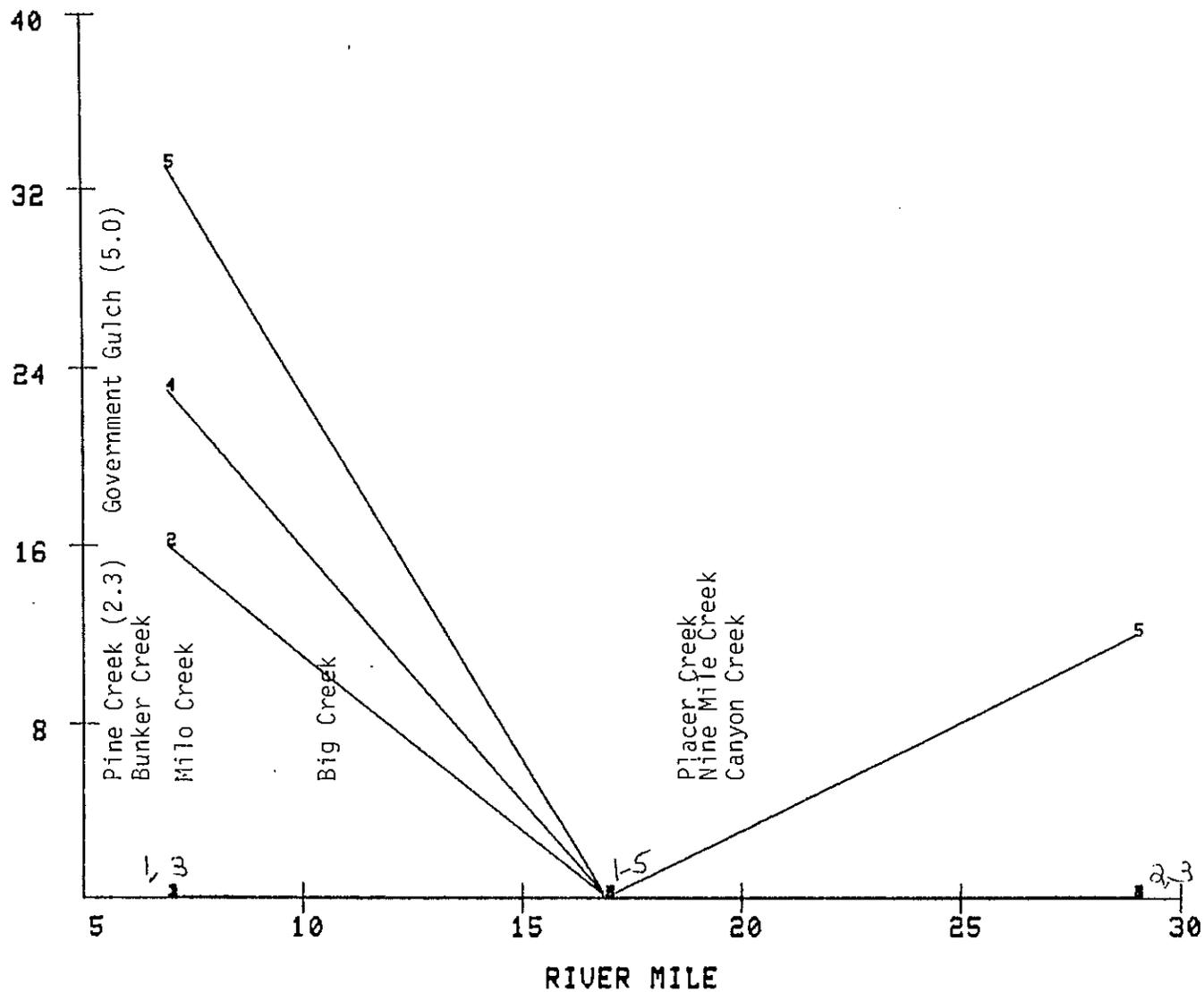
1 : 10-25-77	2 : 11-16-77	3 : 12-13-77
4 : 01-17-78	5 : 02-14-78	6 : 03-14-78

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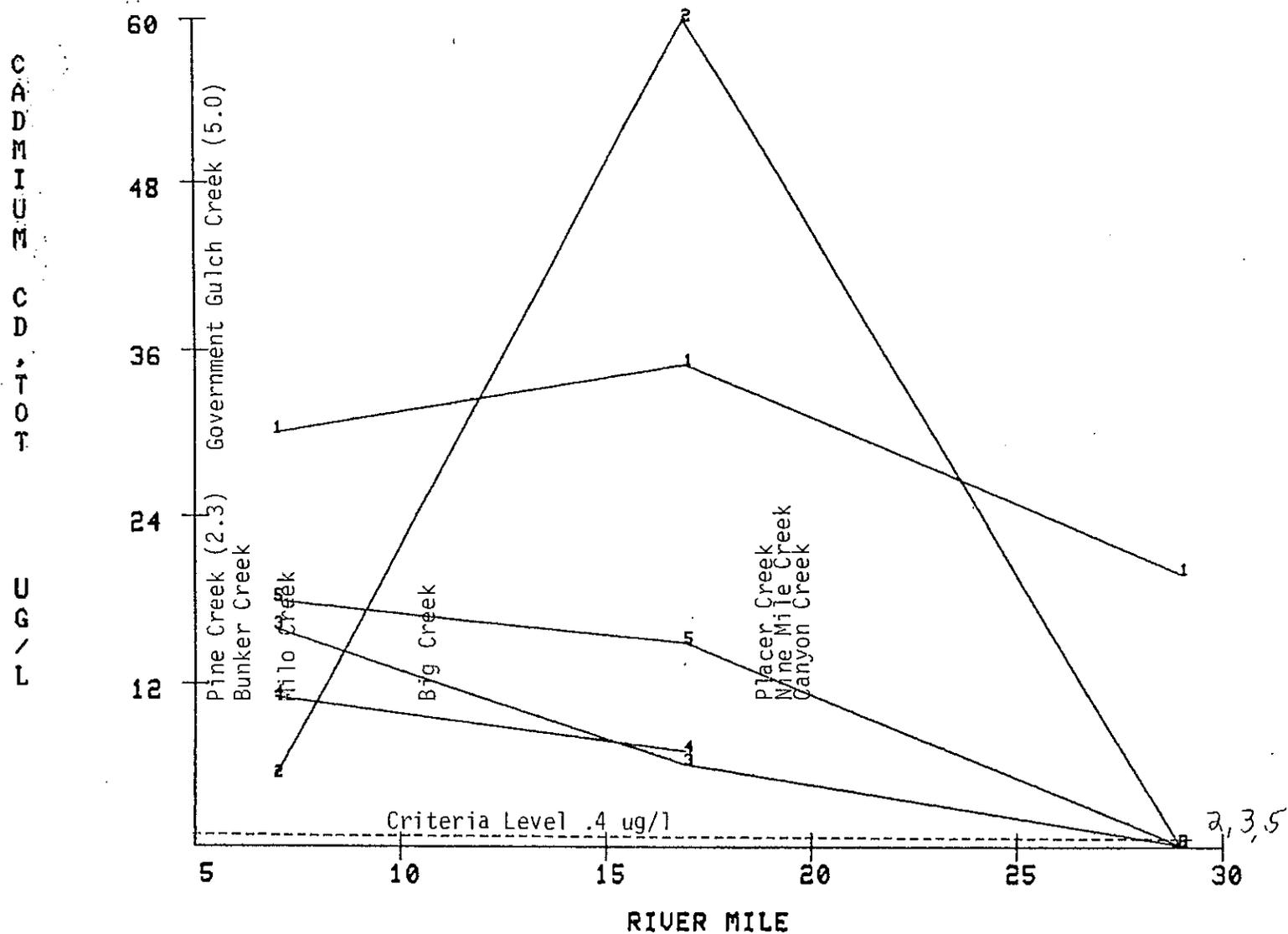


SOUTH FORK COEUR D'ALENE
 INTENSIVE SURVEY DATA FOR 5 DAYS OF MONITORING
 1 : 04-11-78 2 : 06-14-78 3 : 07-25-78
 4 : 08-15-78 5 : 09-19-78

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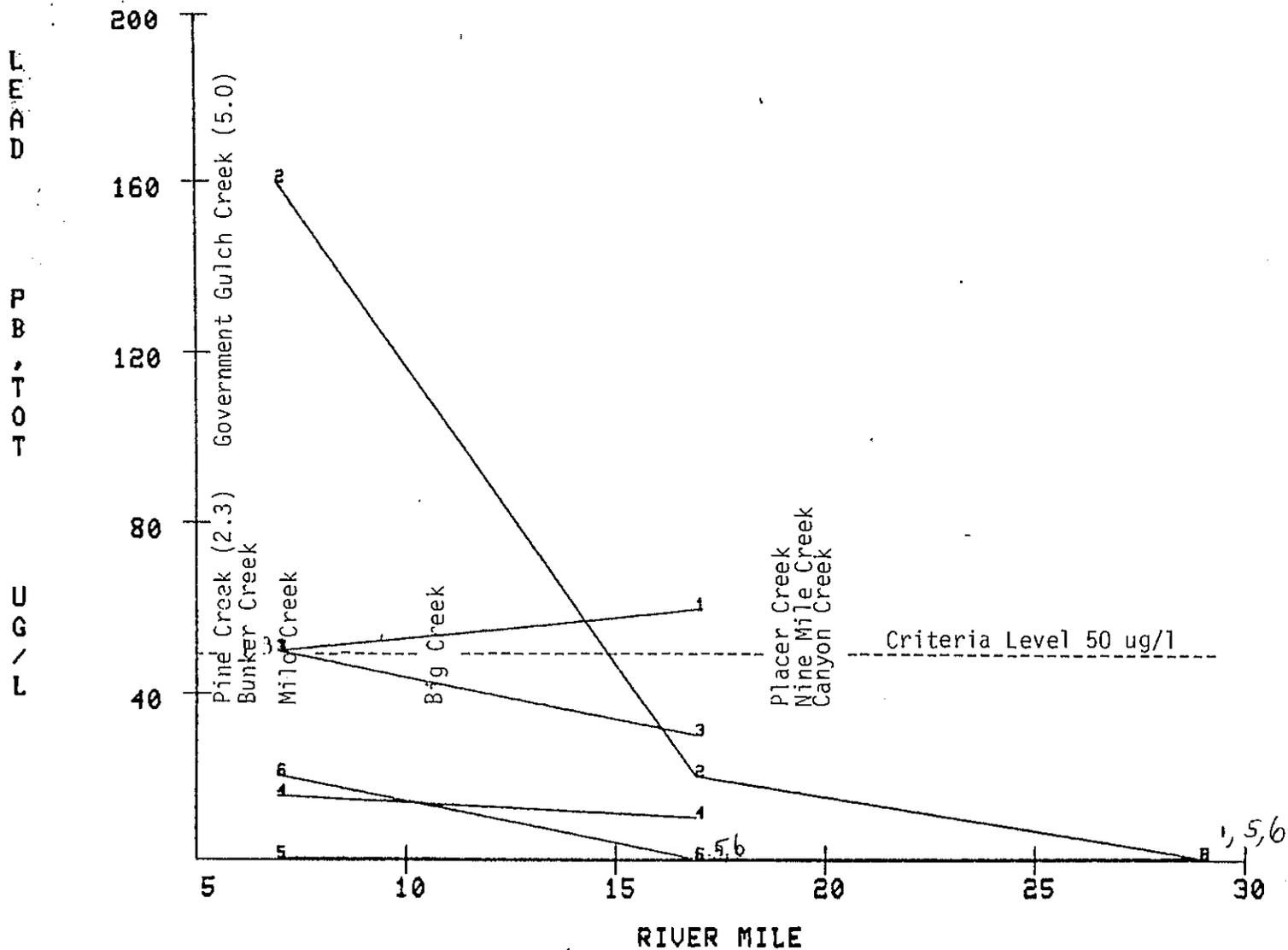


SOUTH FORK COEUR D'ALENE
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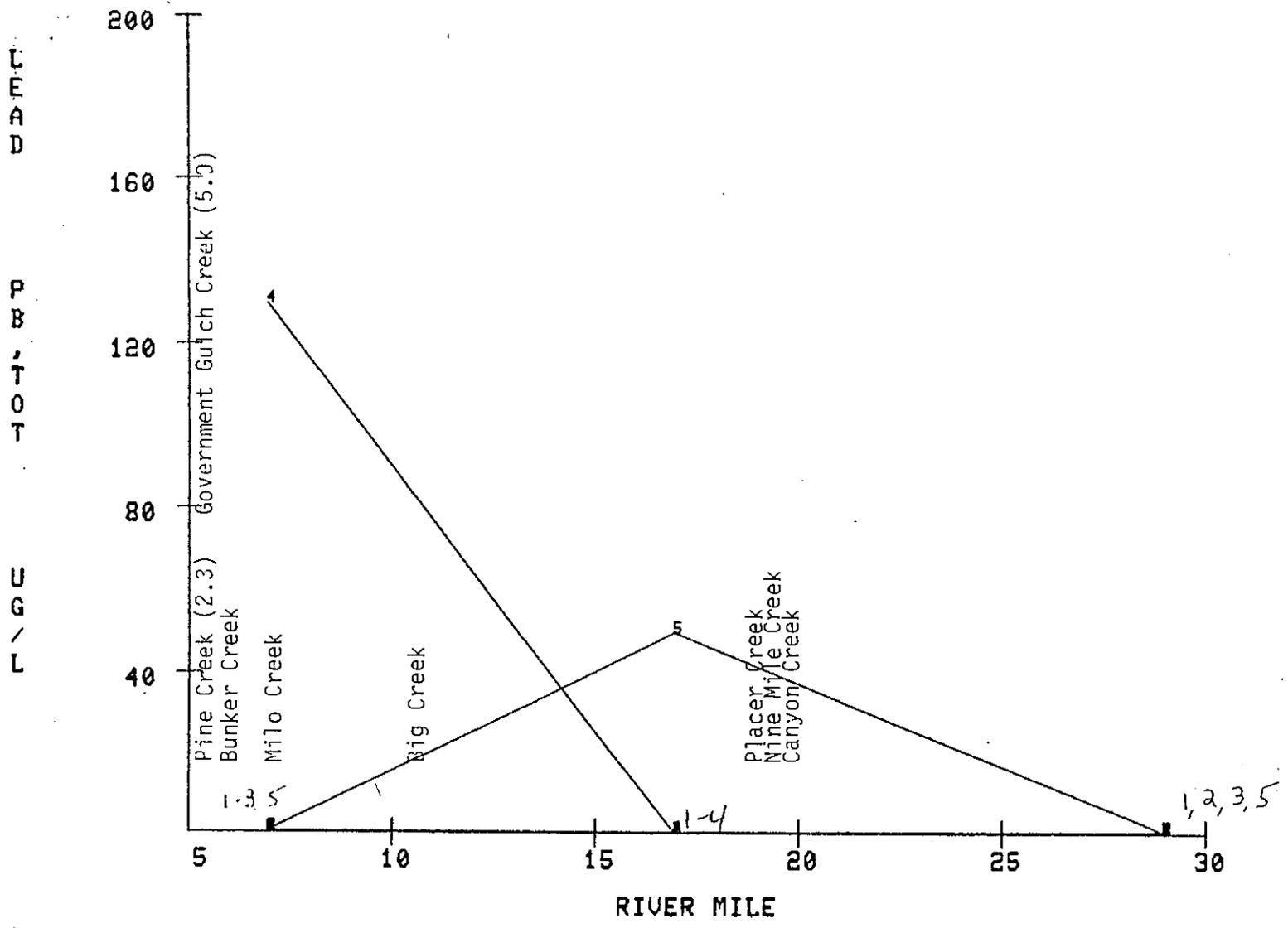


SOUTH FORK COEUR D'ALENE SURVEY
 INTENSIVE SURVEY DATA FOR 6 DAYS OF MONITORING

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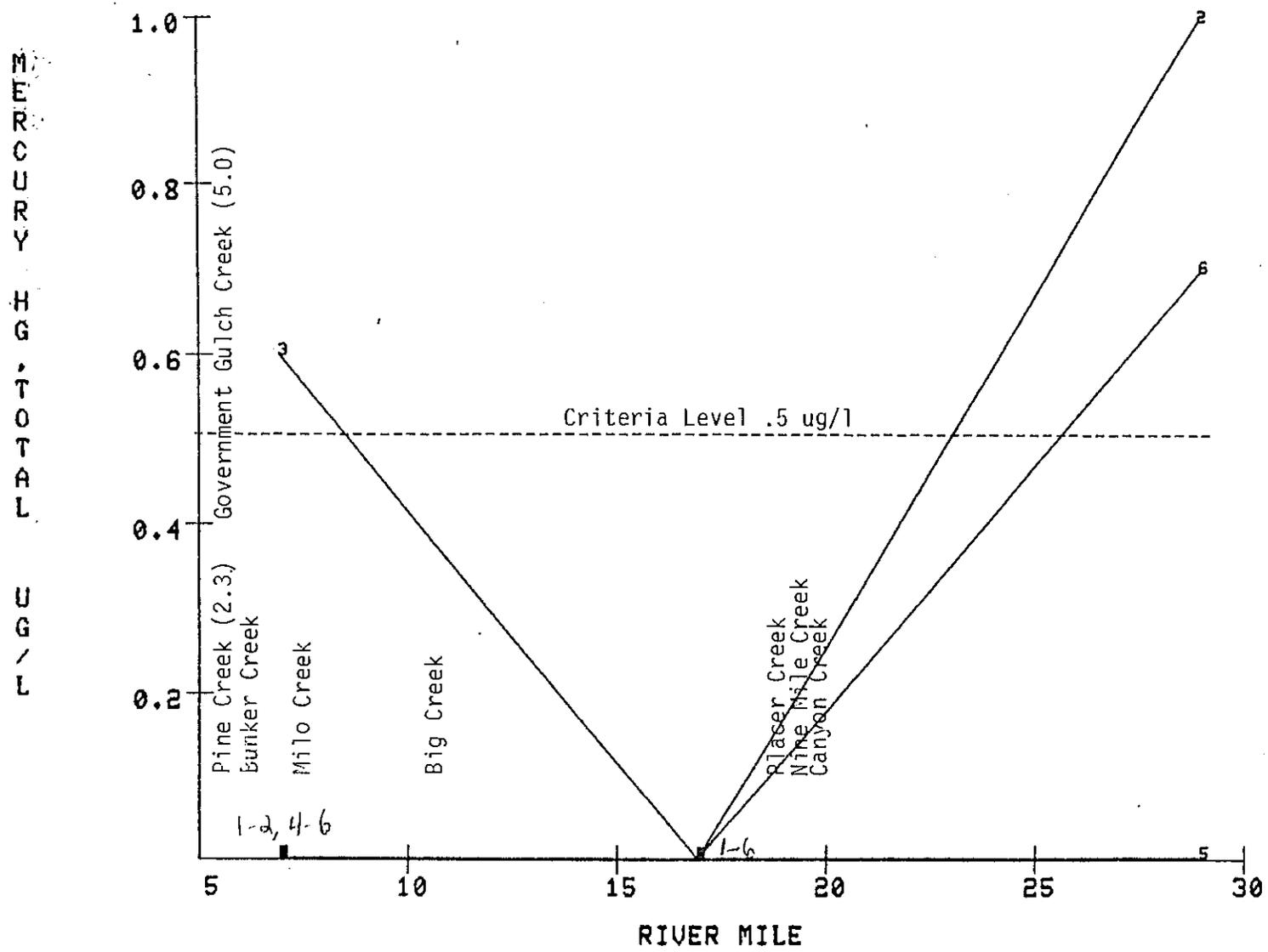


SOUTH FORK COEUR D'ALENE
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SOUTH FORK COEUR D'ALENE SURVEY
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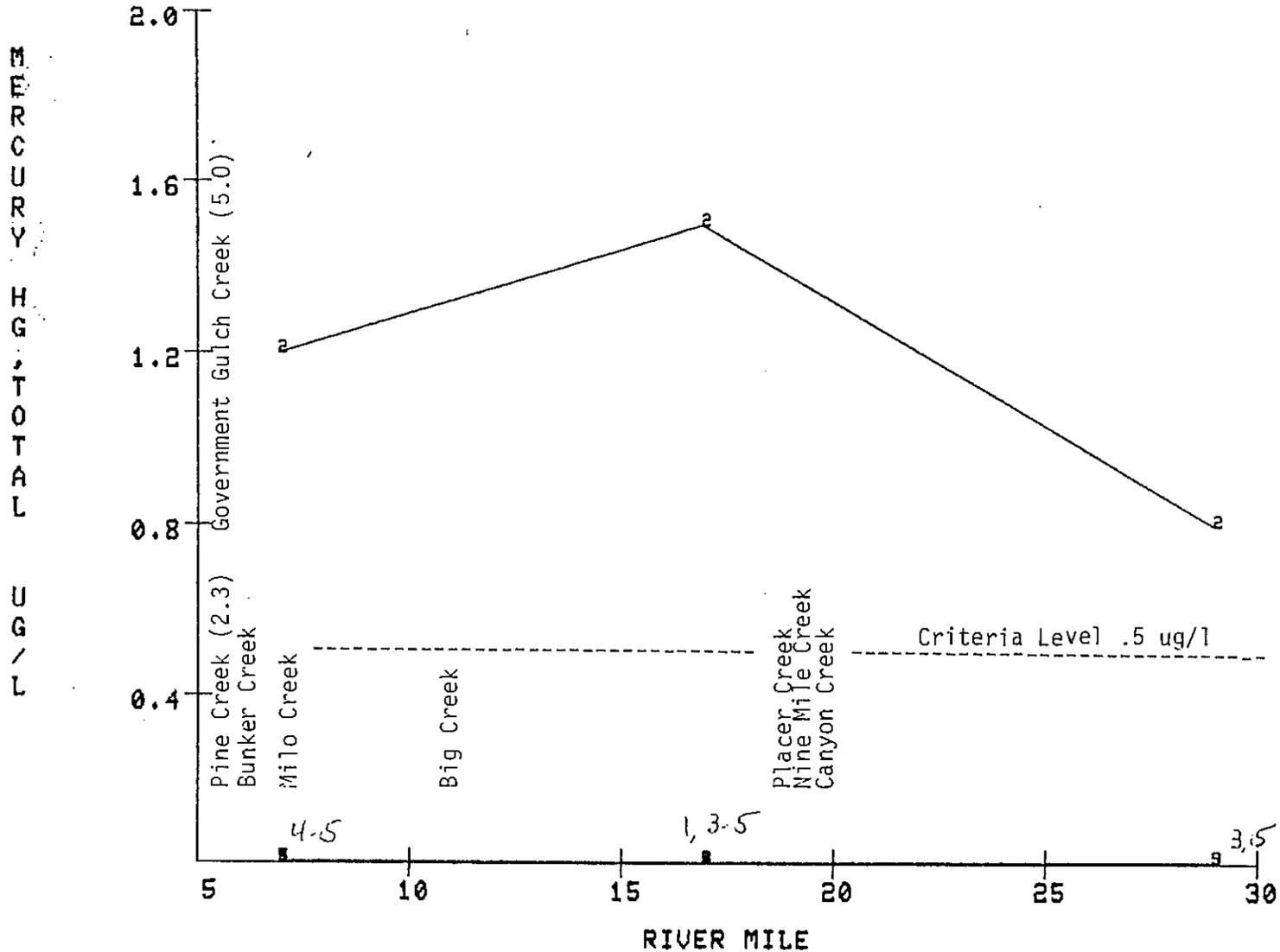
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SOUTH FORK COEUR D'ALENE
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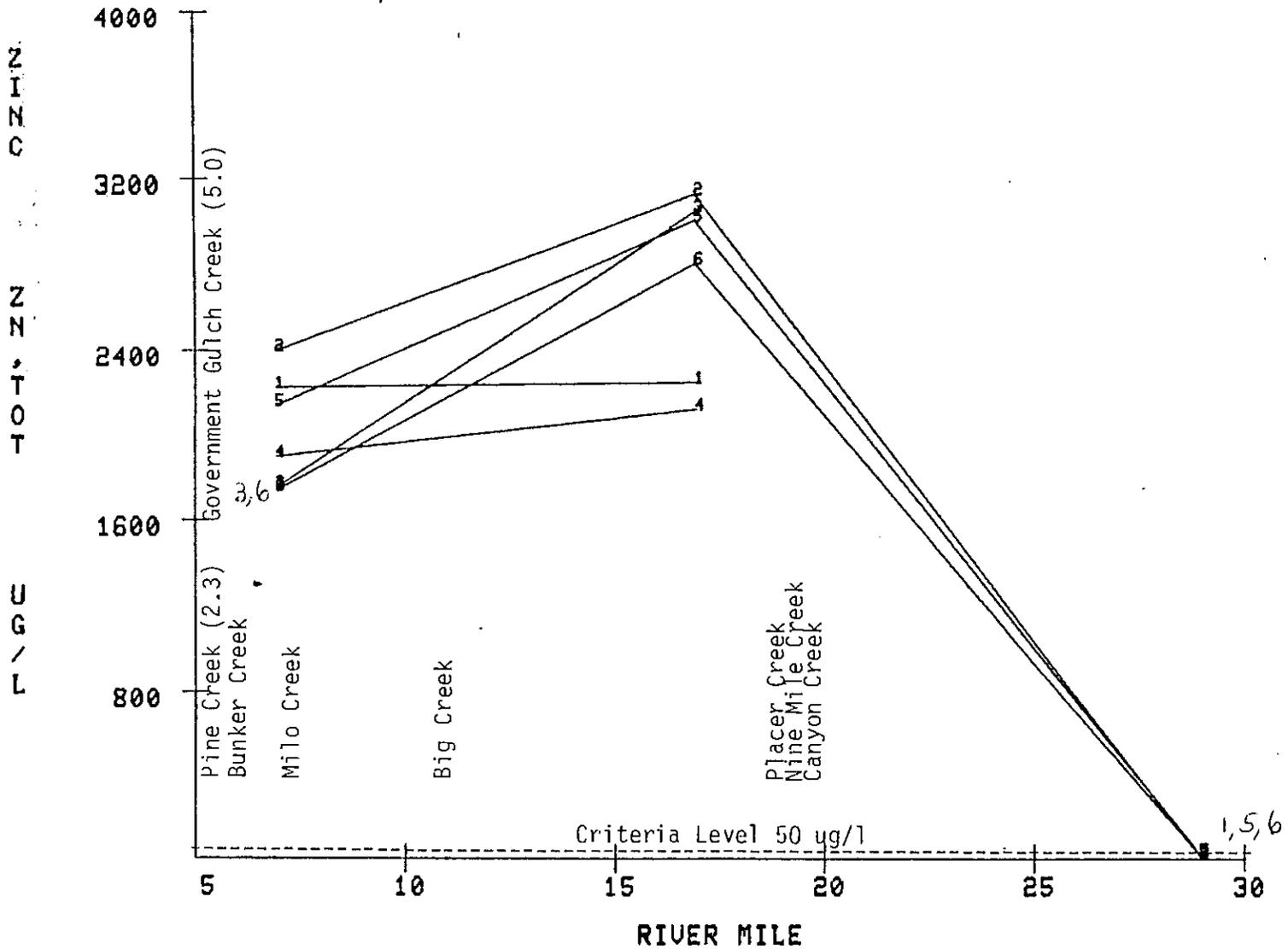
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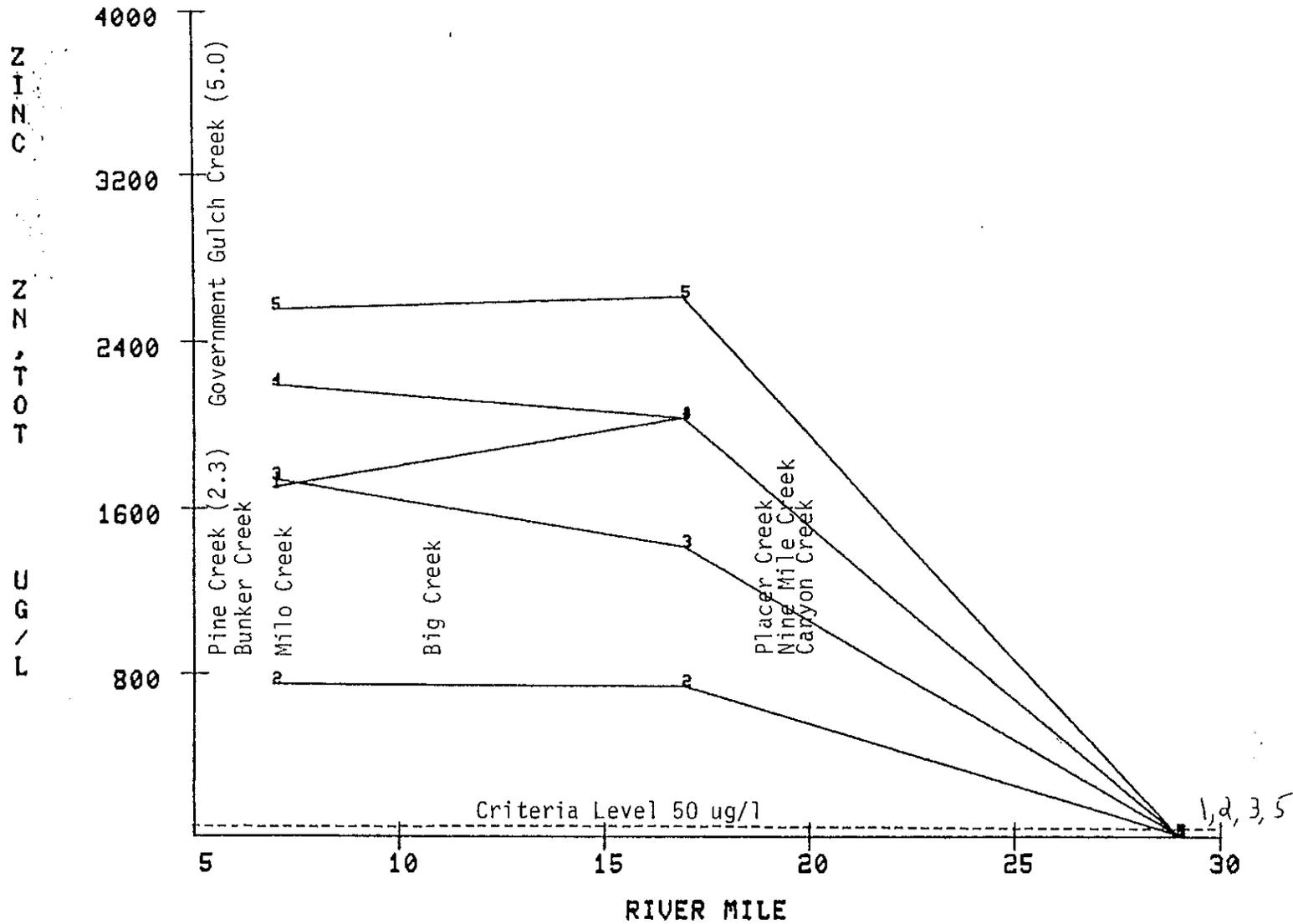


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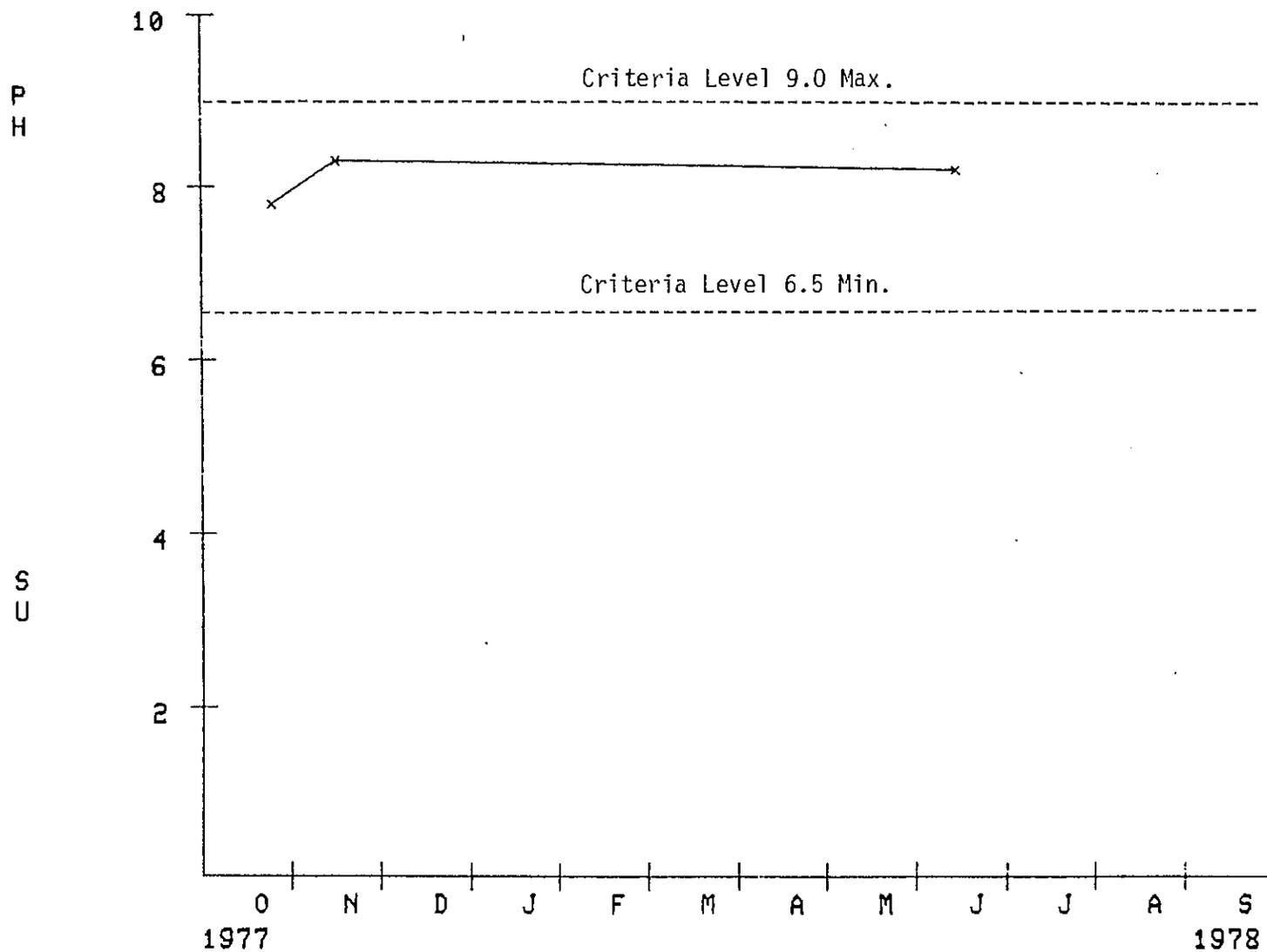
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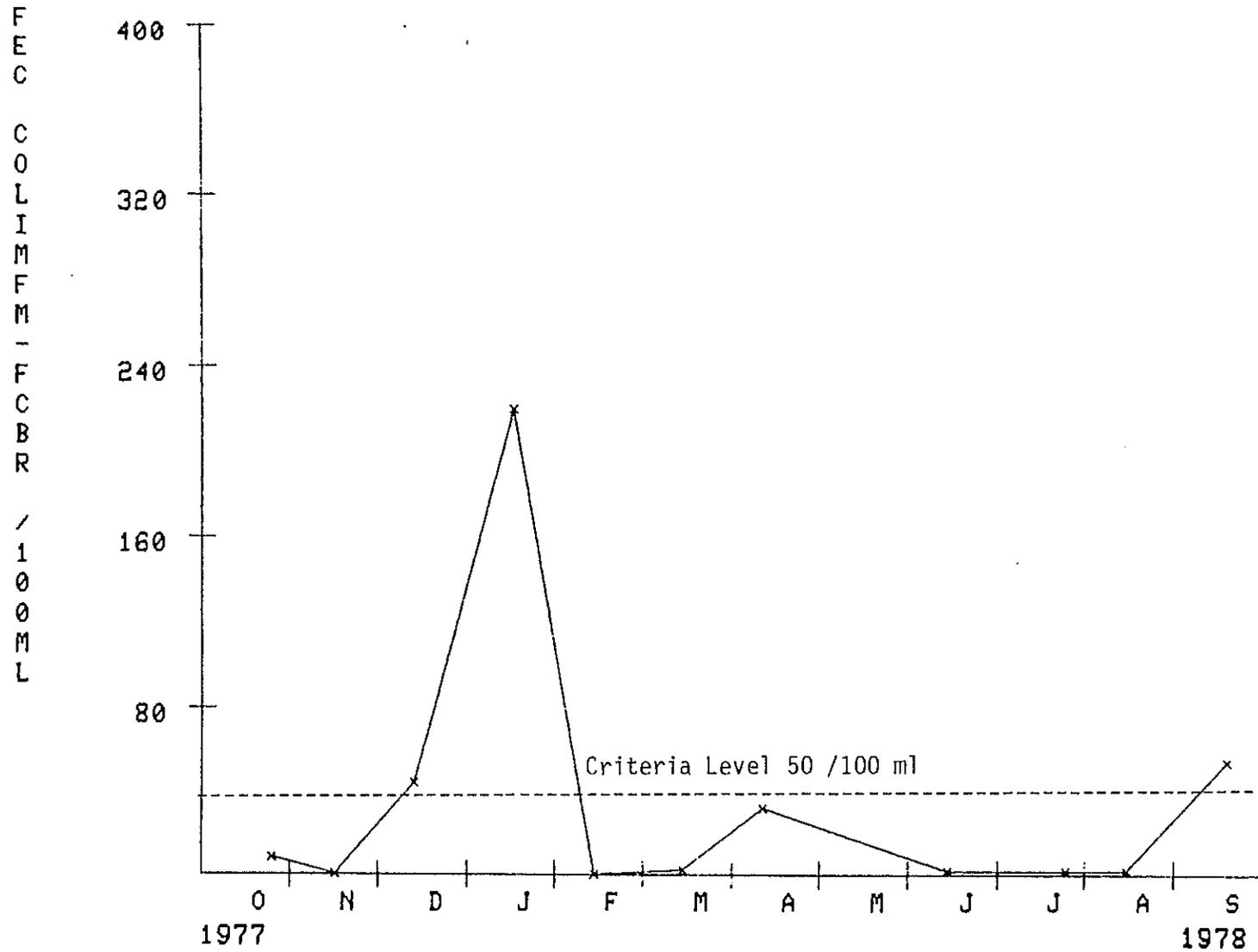
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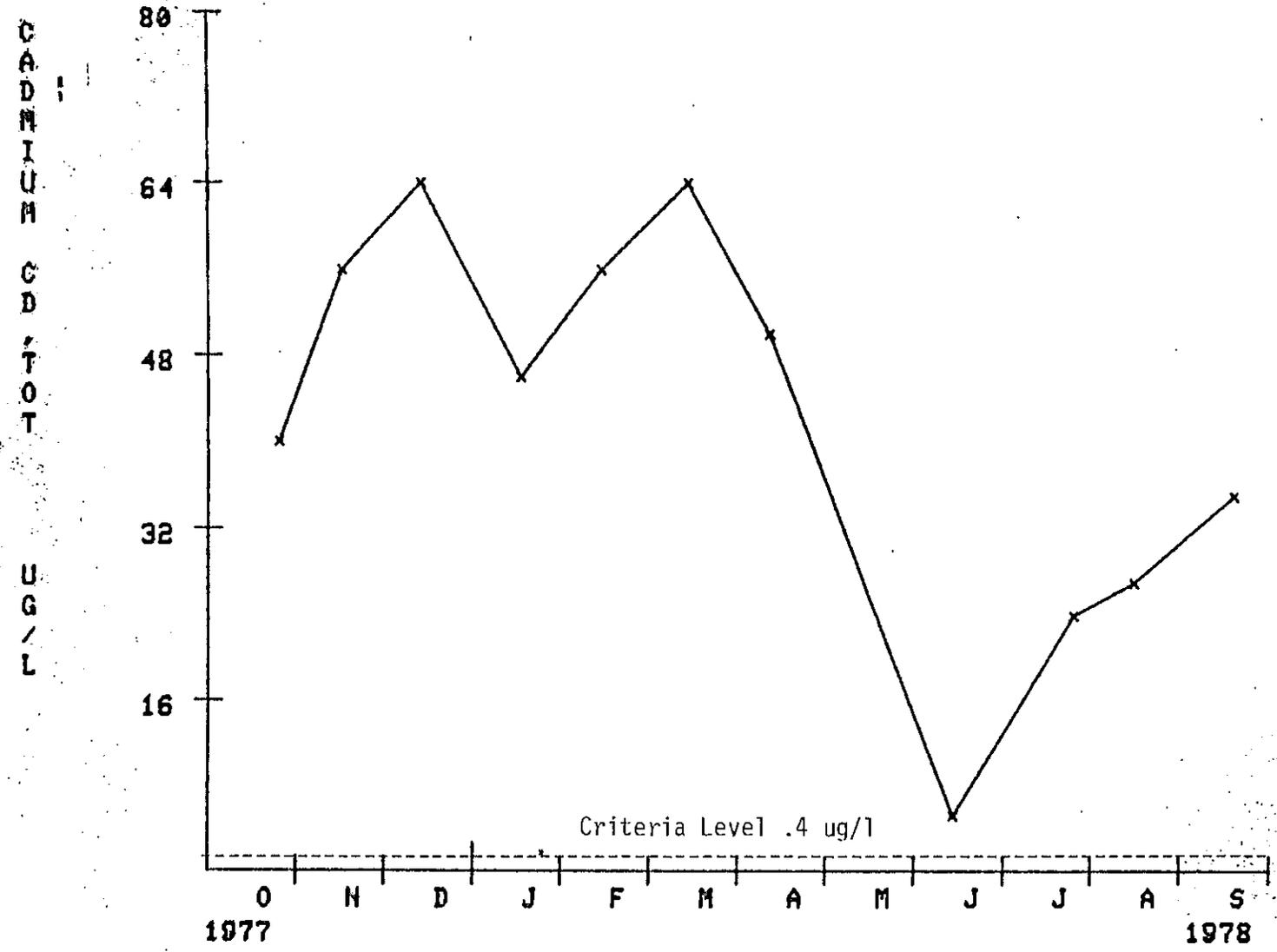
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CANYON CREEK AT MOUTH AT BRIDGE



STORET STATION 2000102
CANYON CREEK AT MOUTH AT BRIDGE

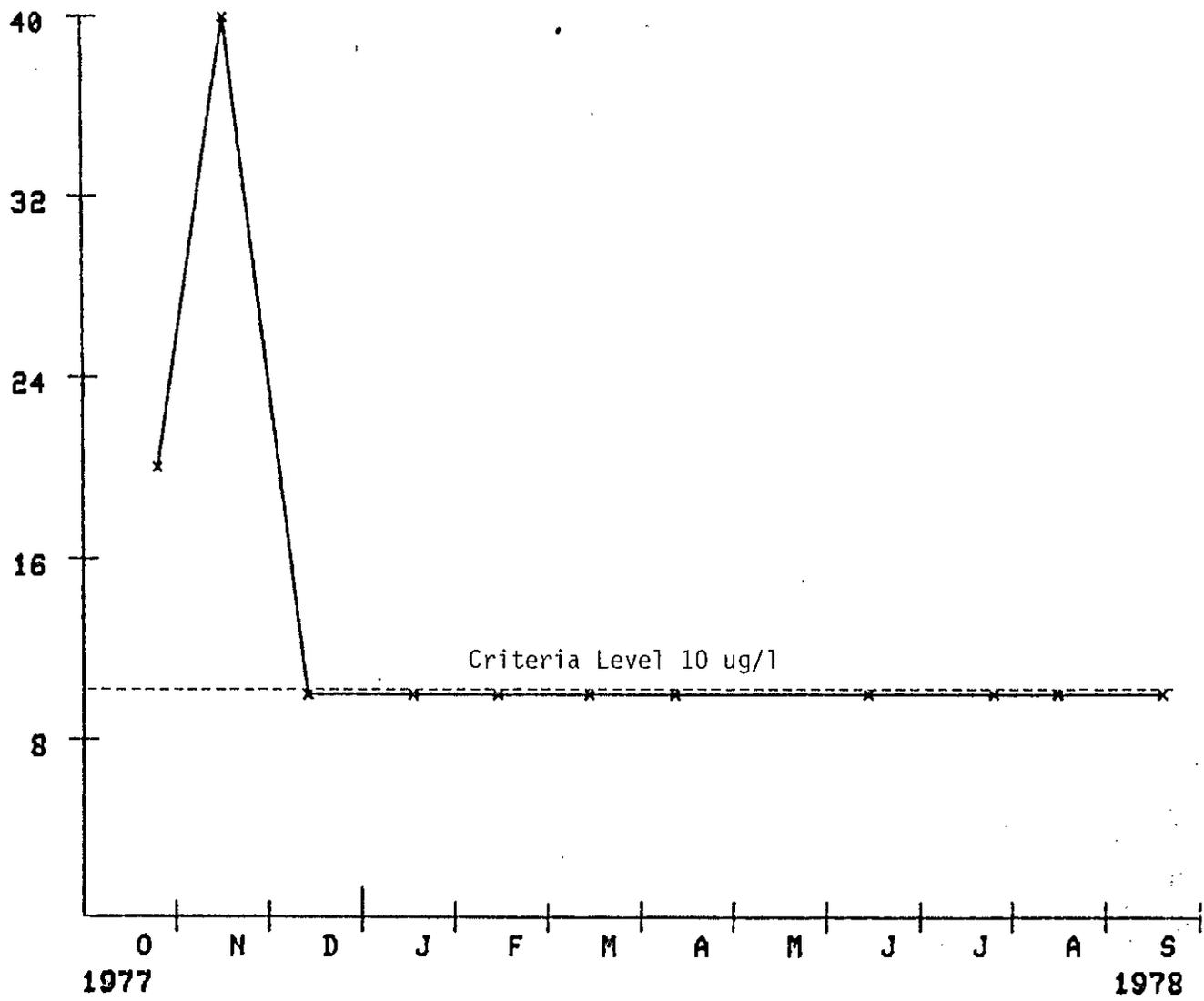


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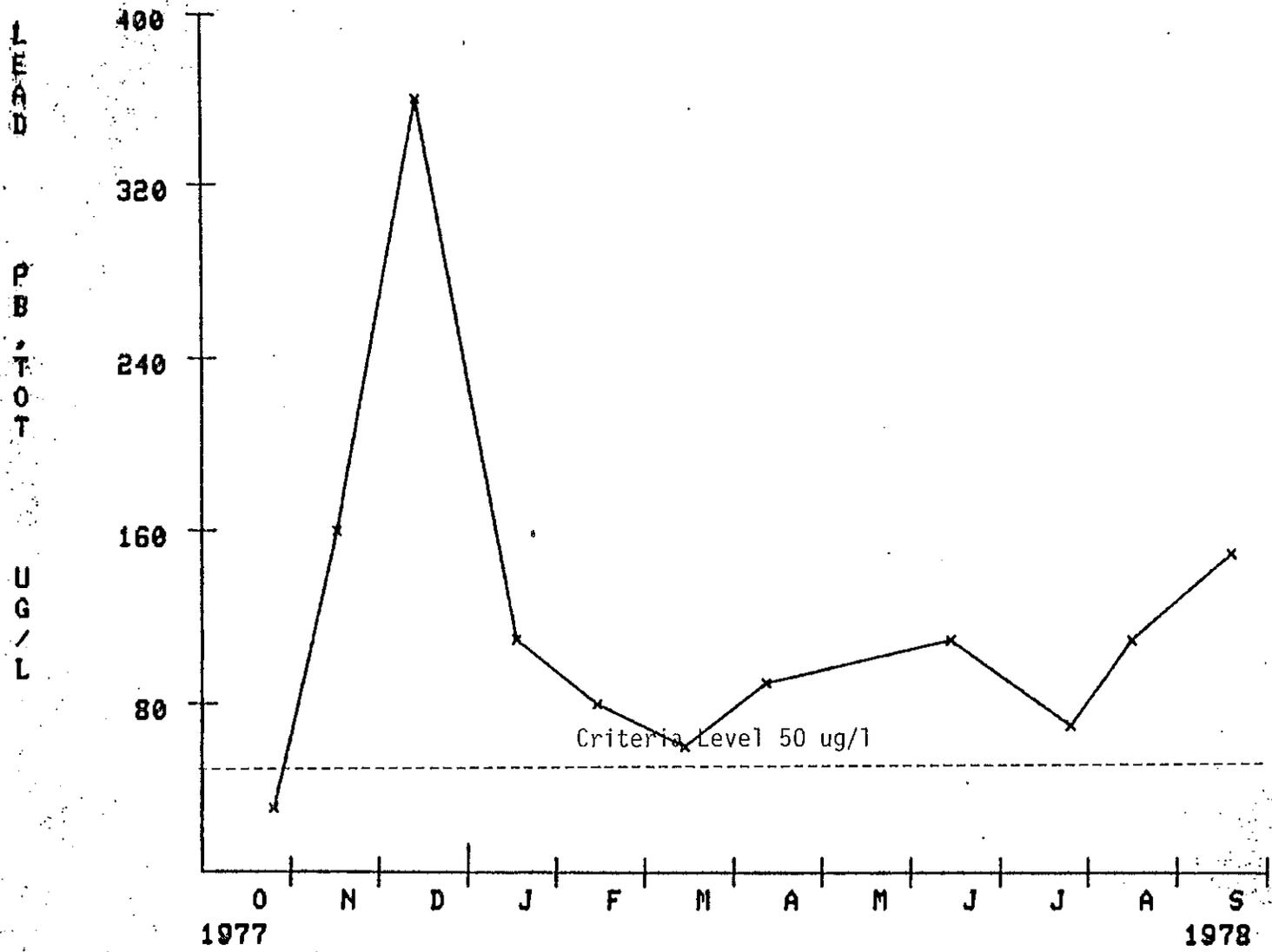


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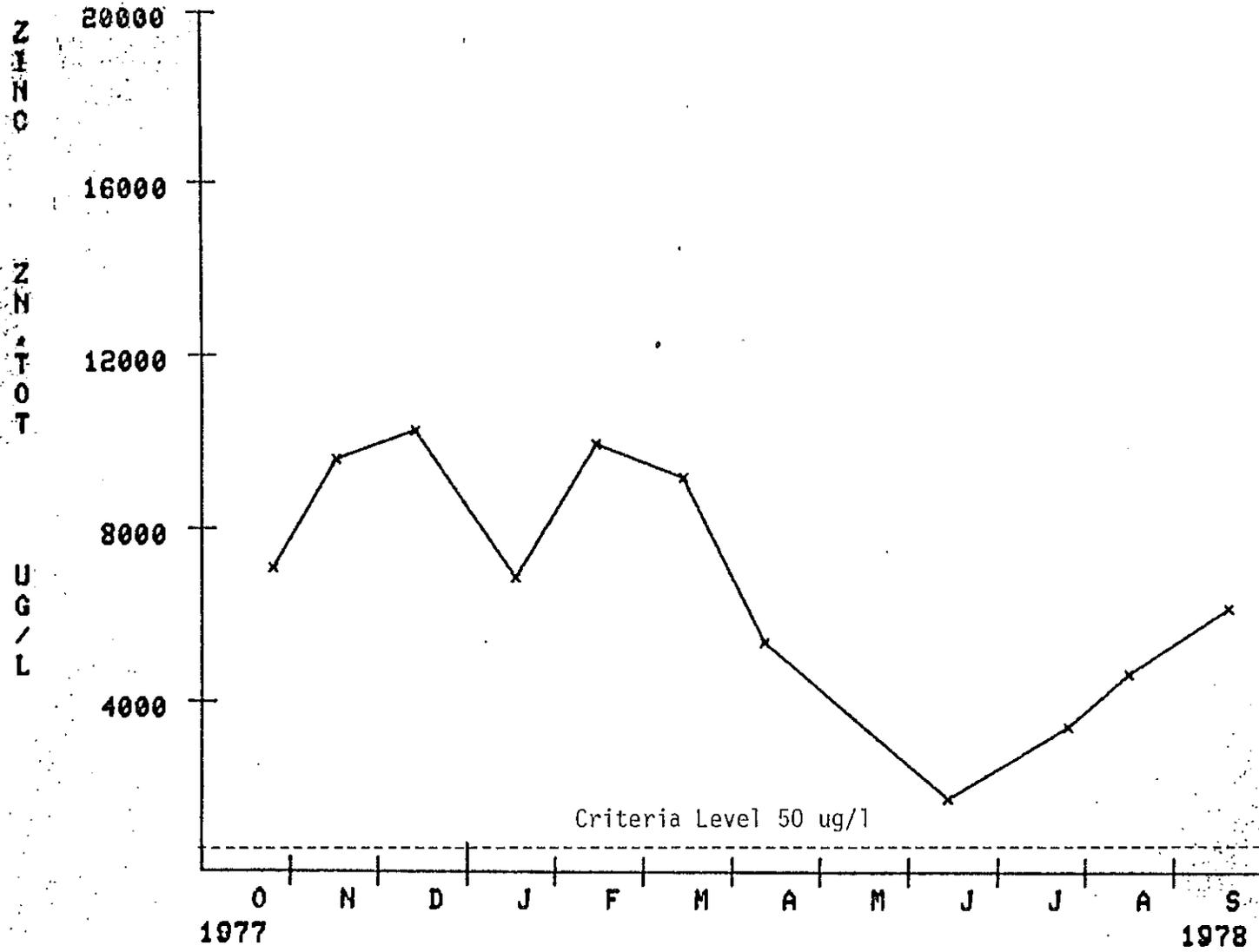
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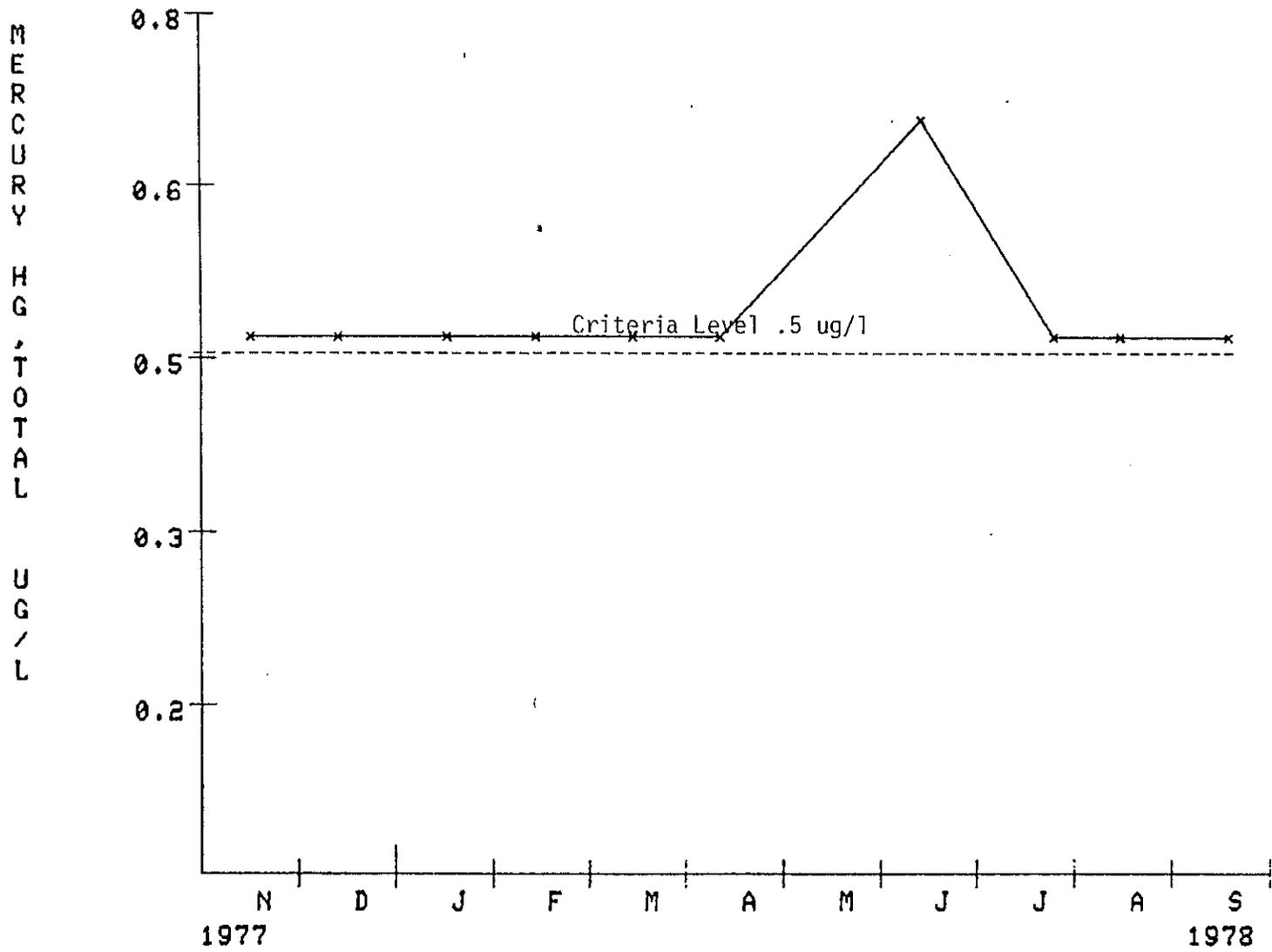
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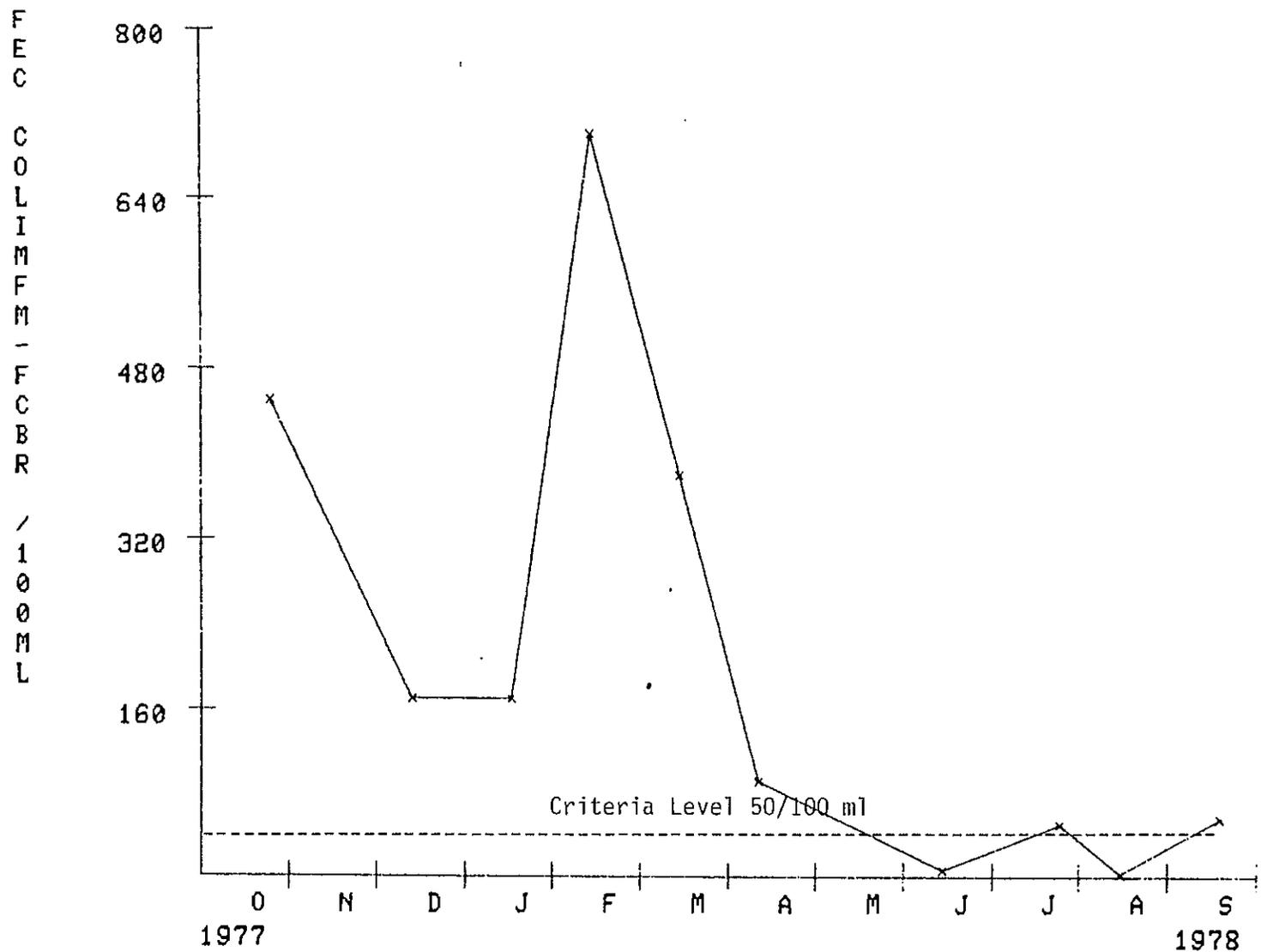
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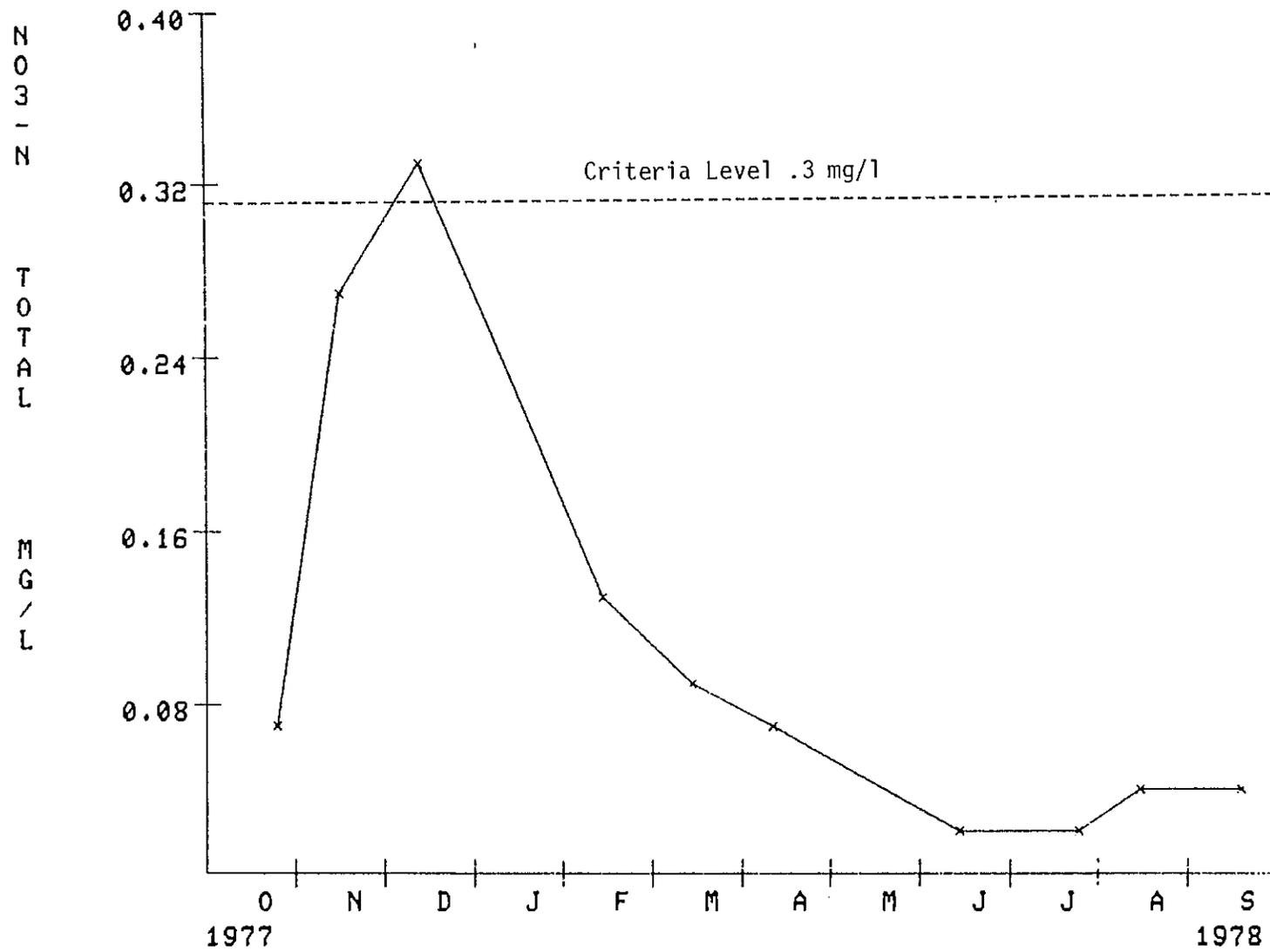
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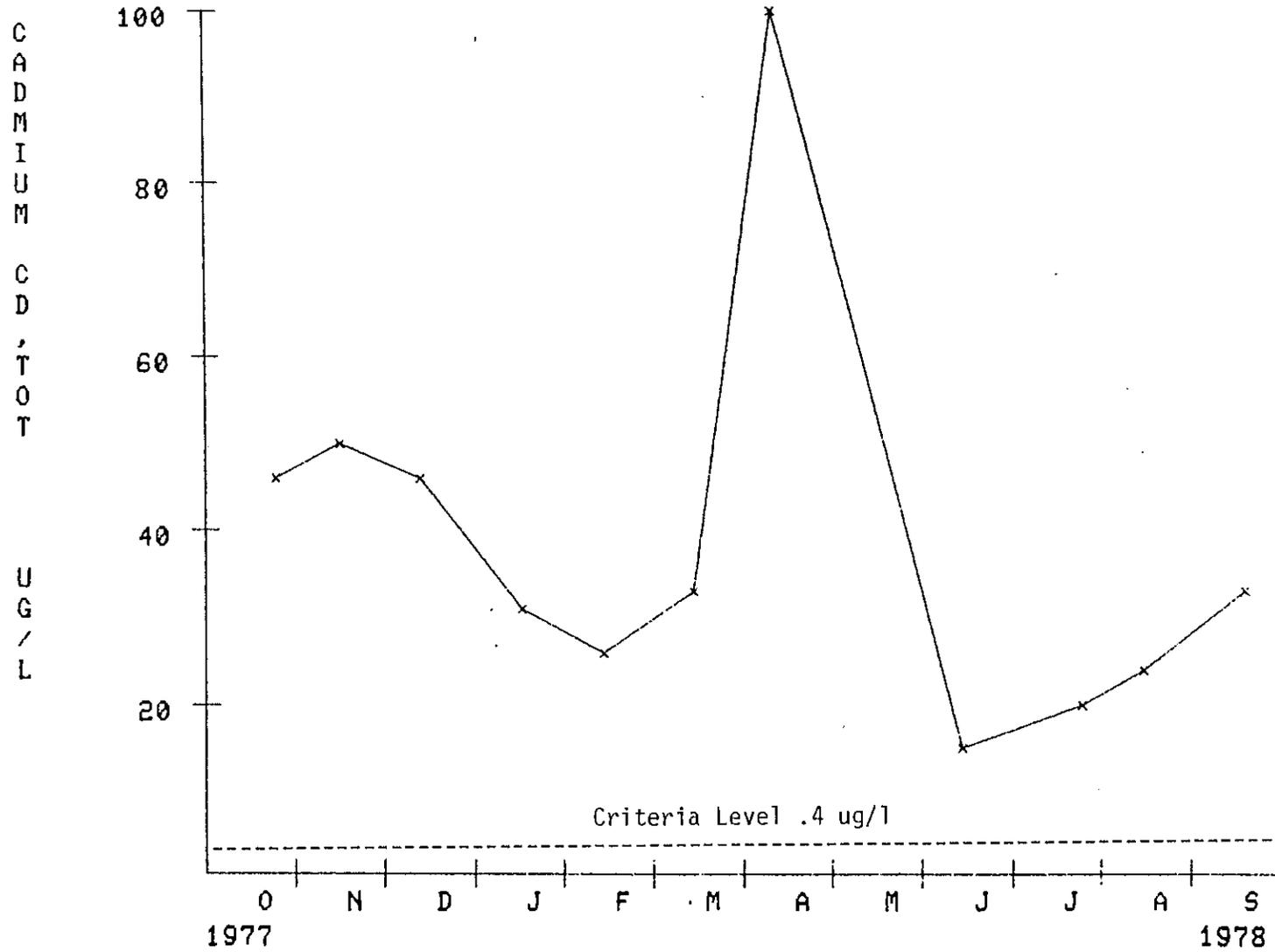
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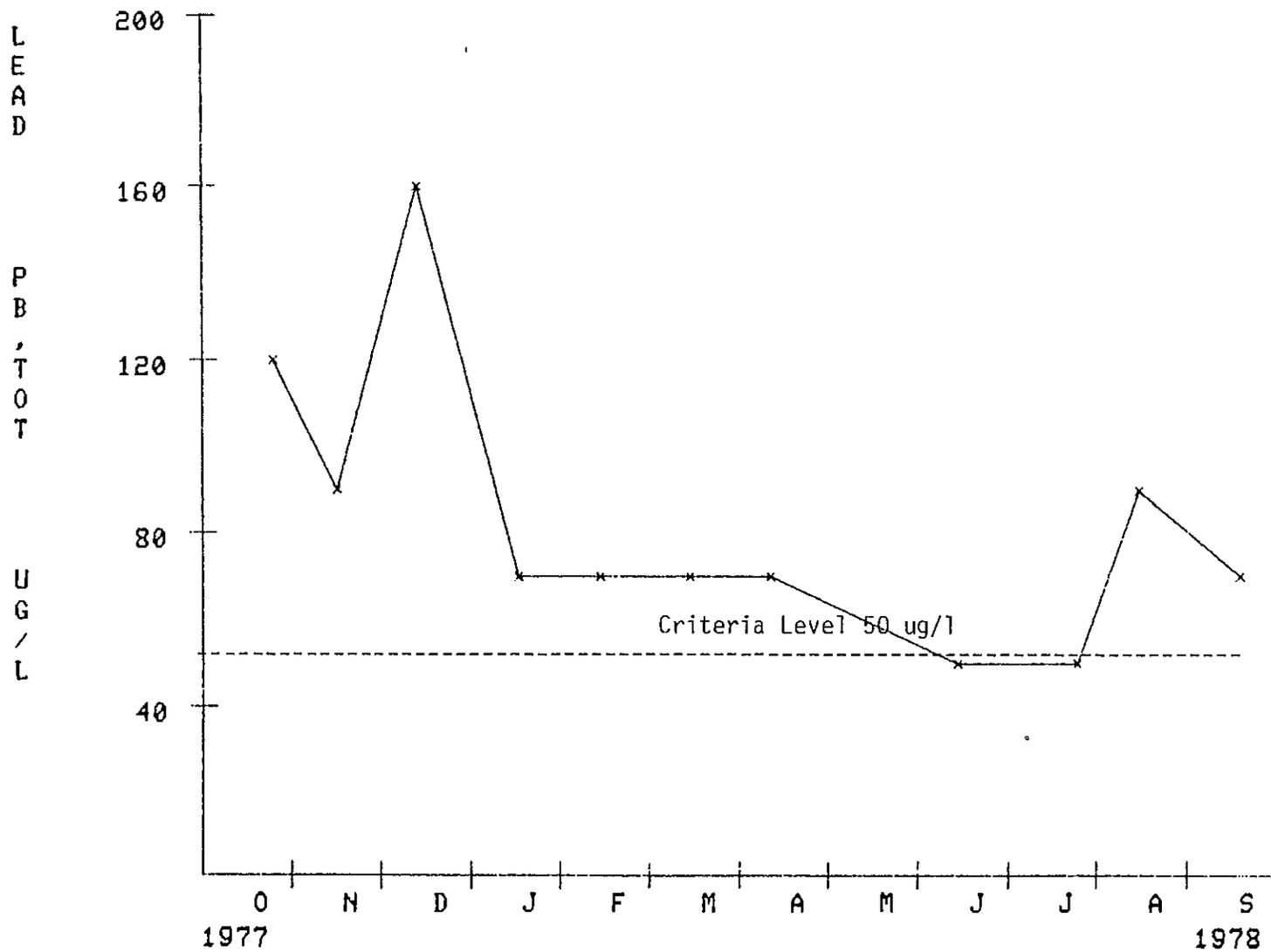
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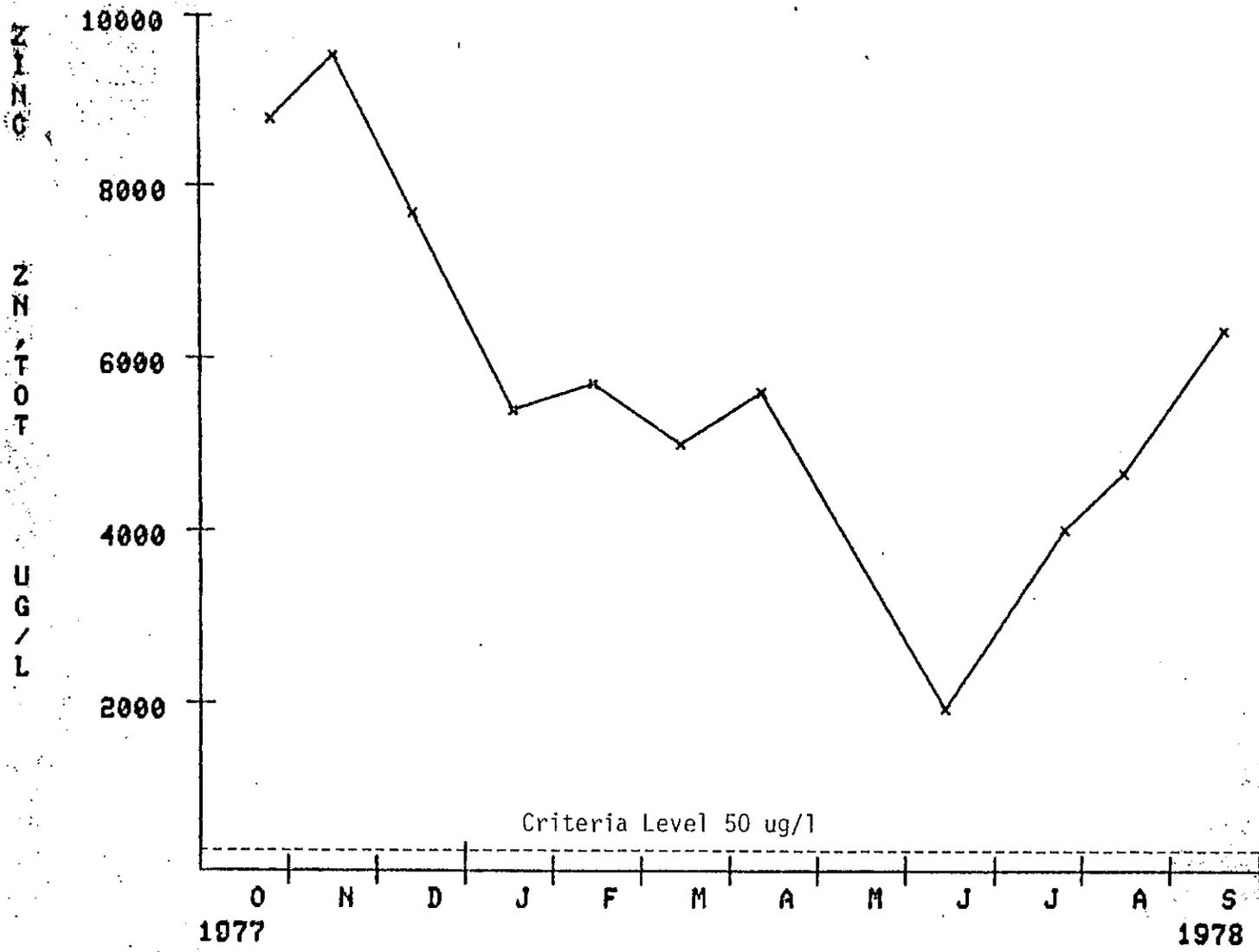
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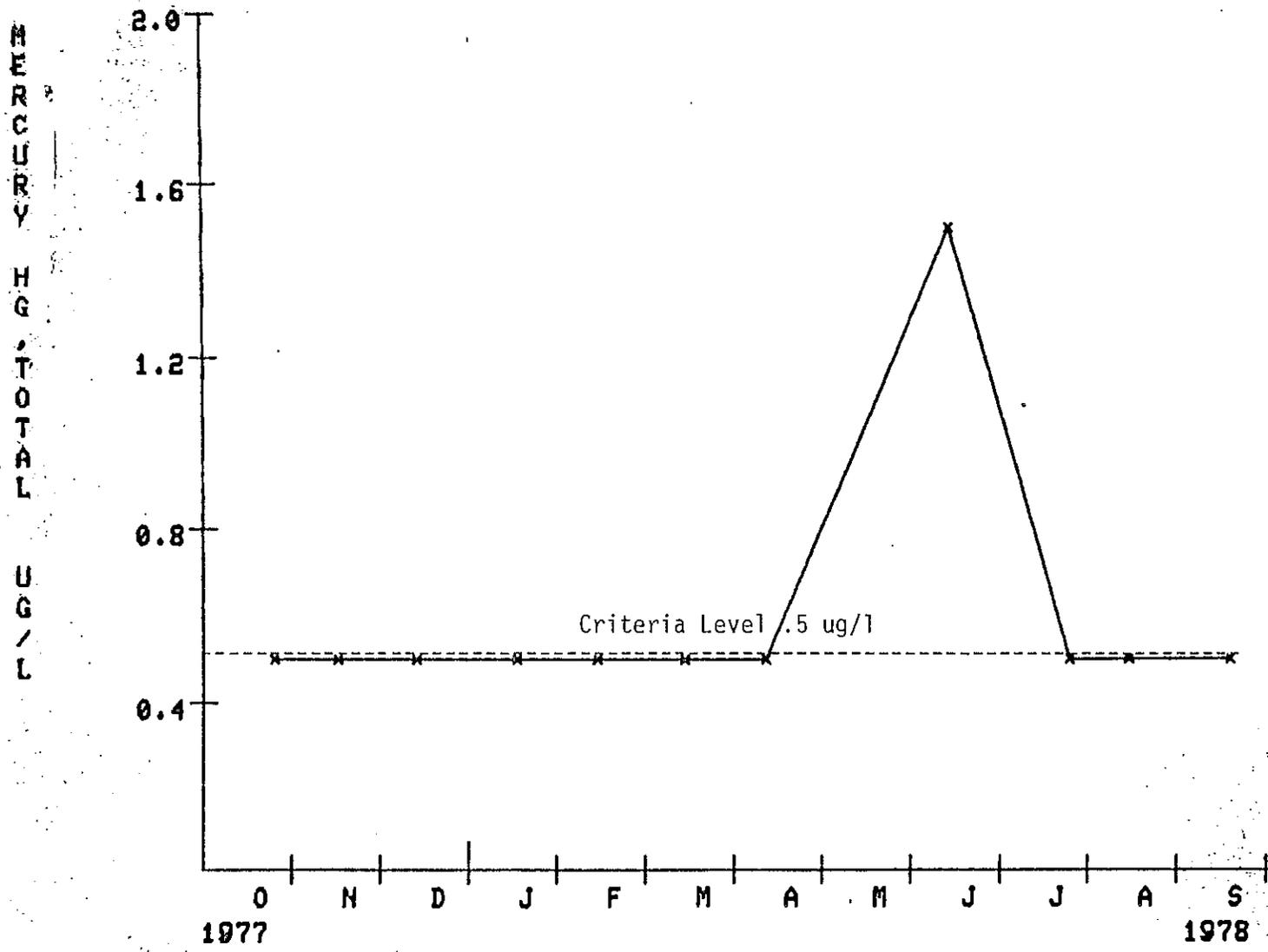
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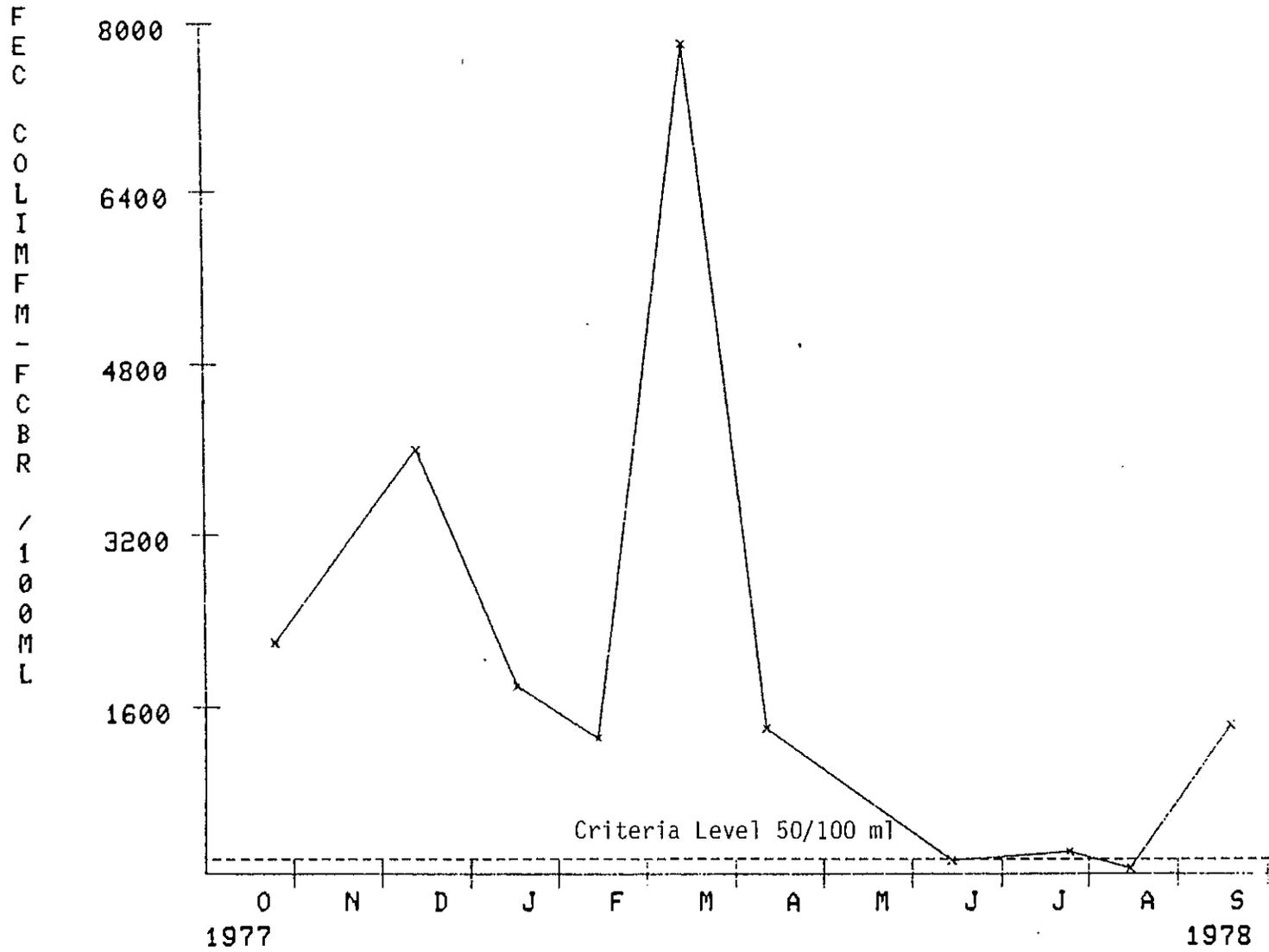
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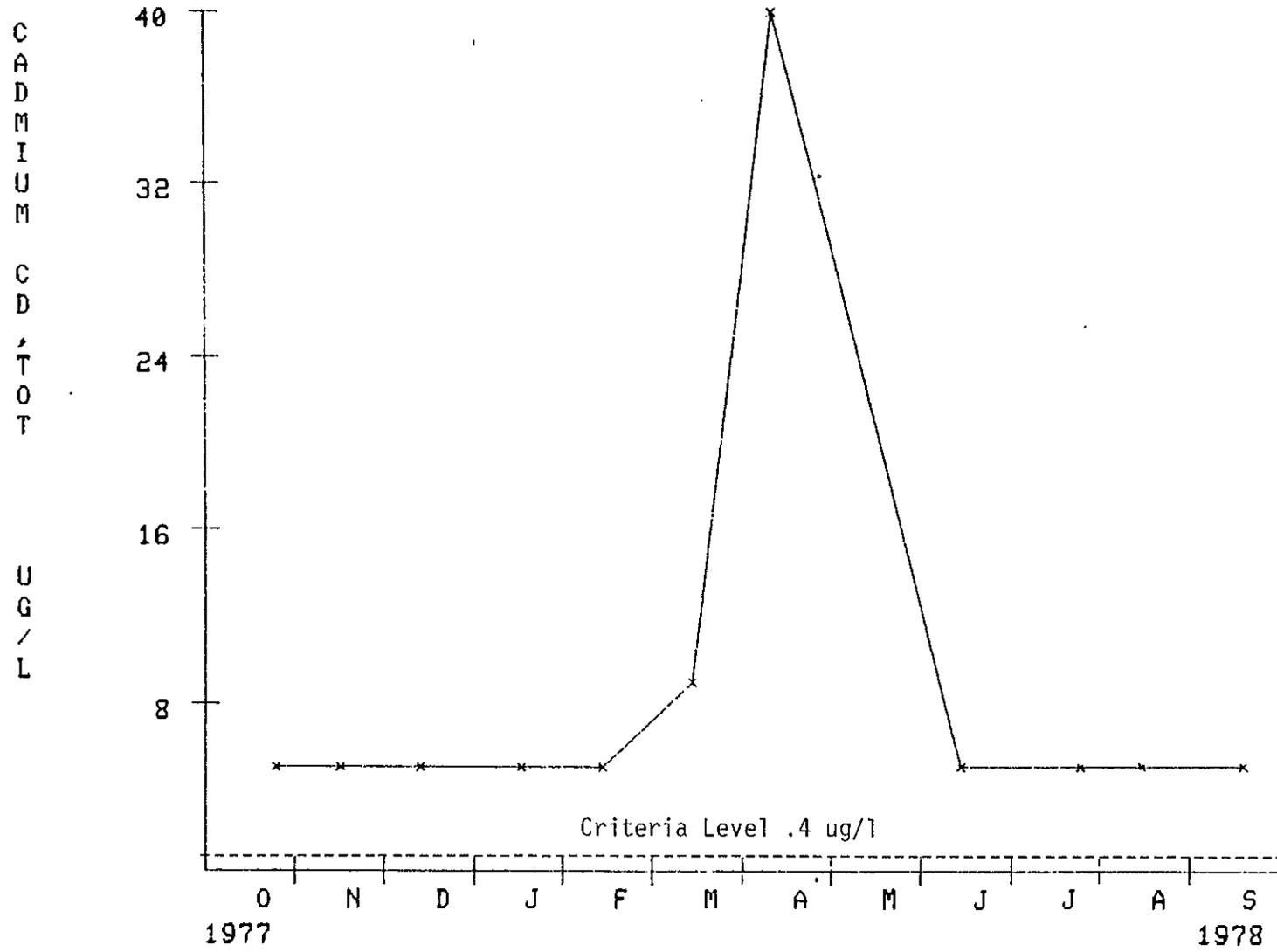
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STORET STATION 2000104
PLACER CREEK AT MOUTH

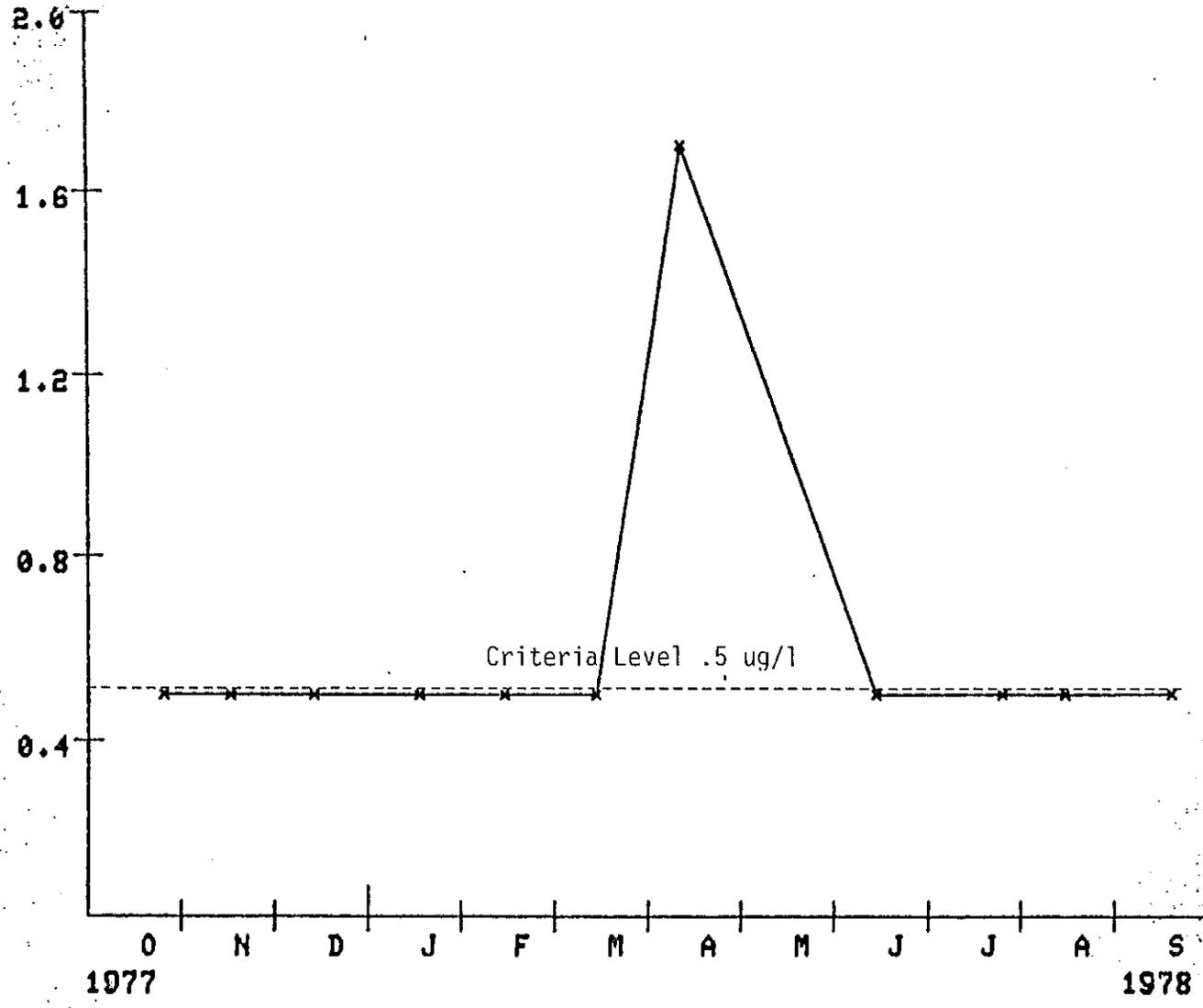


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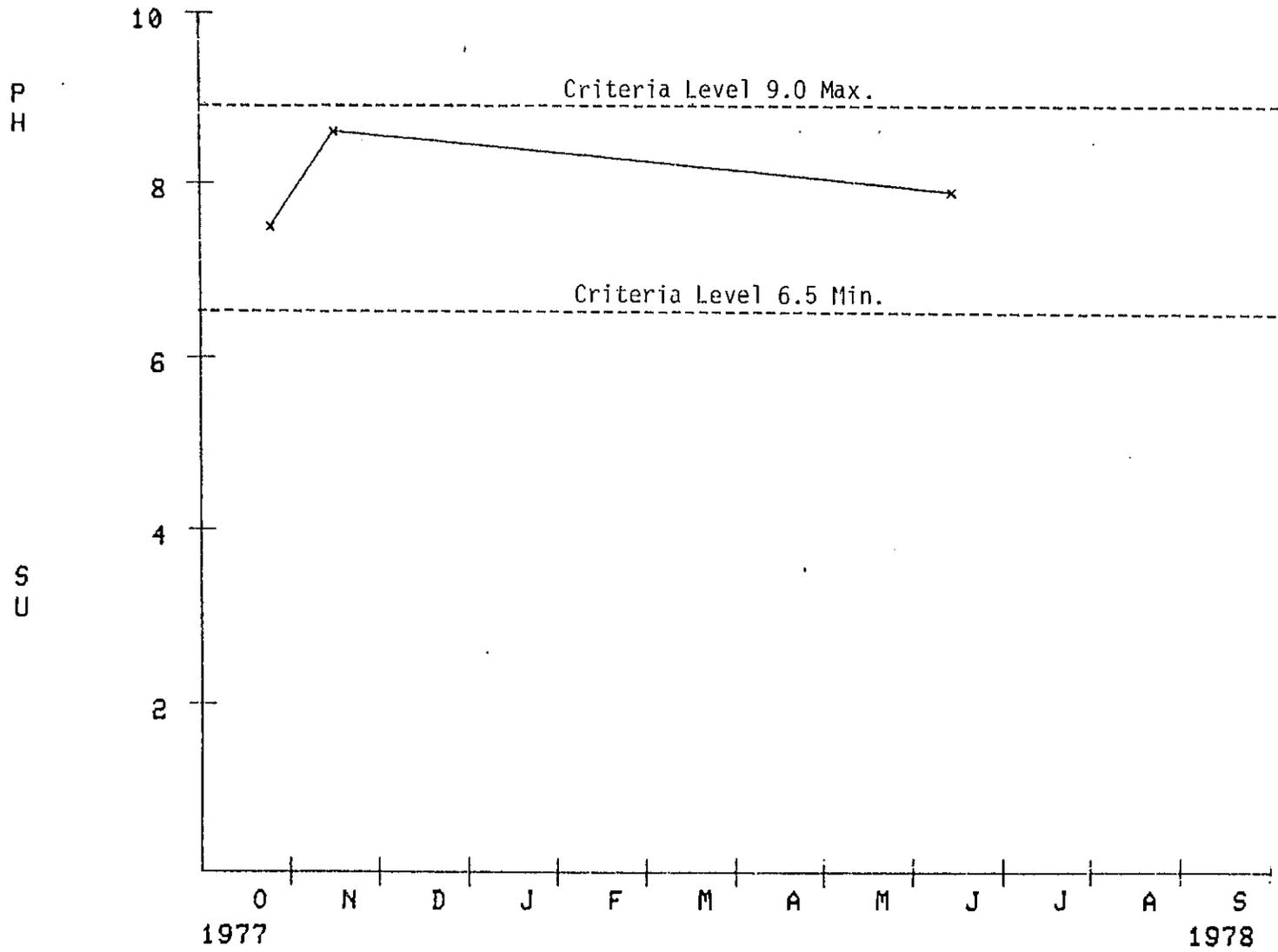


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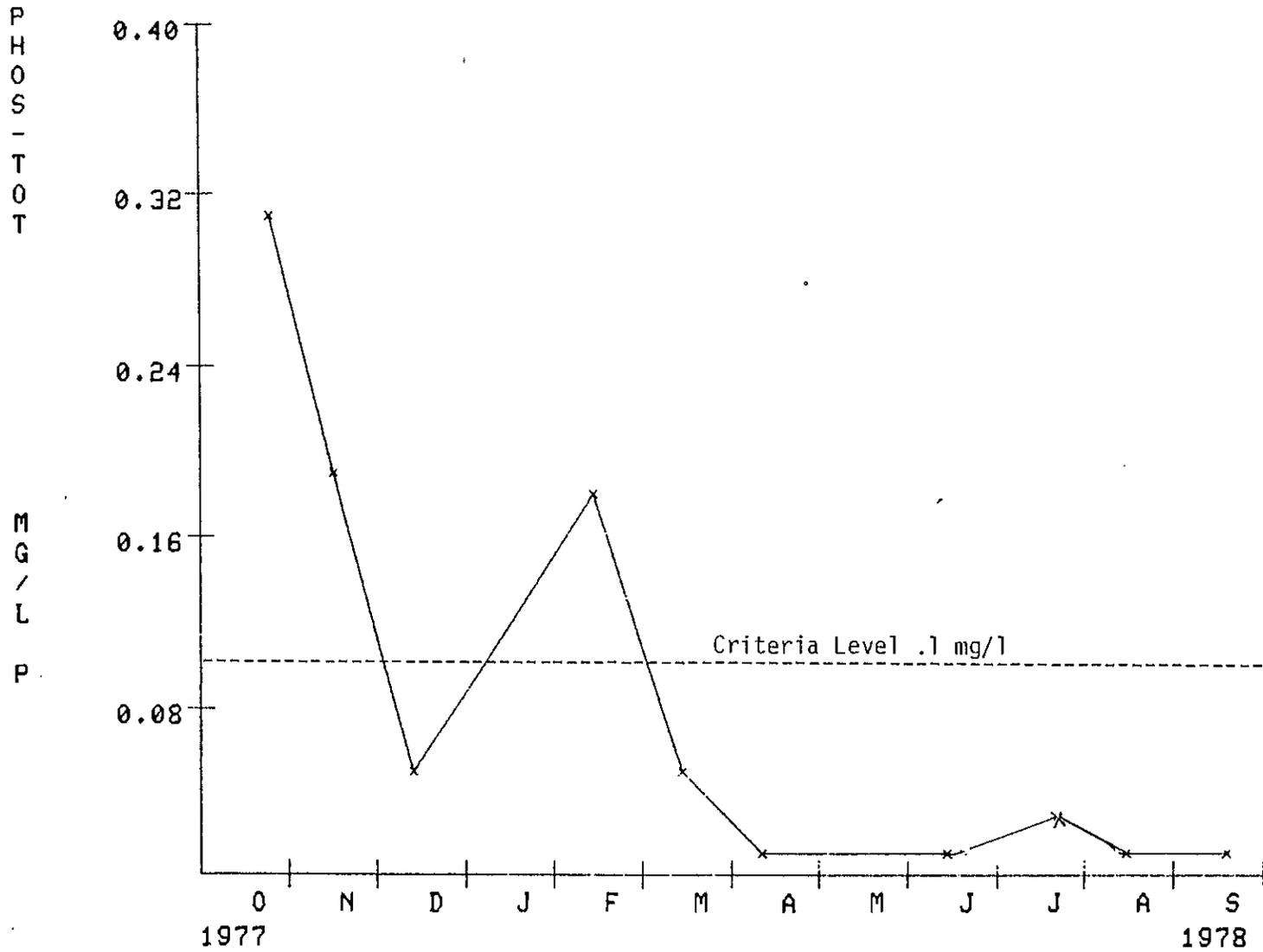
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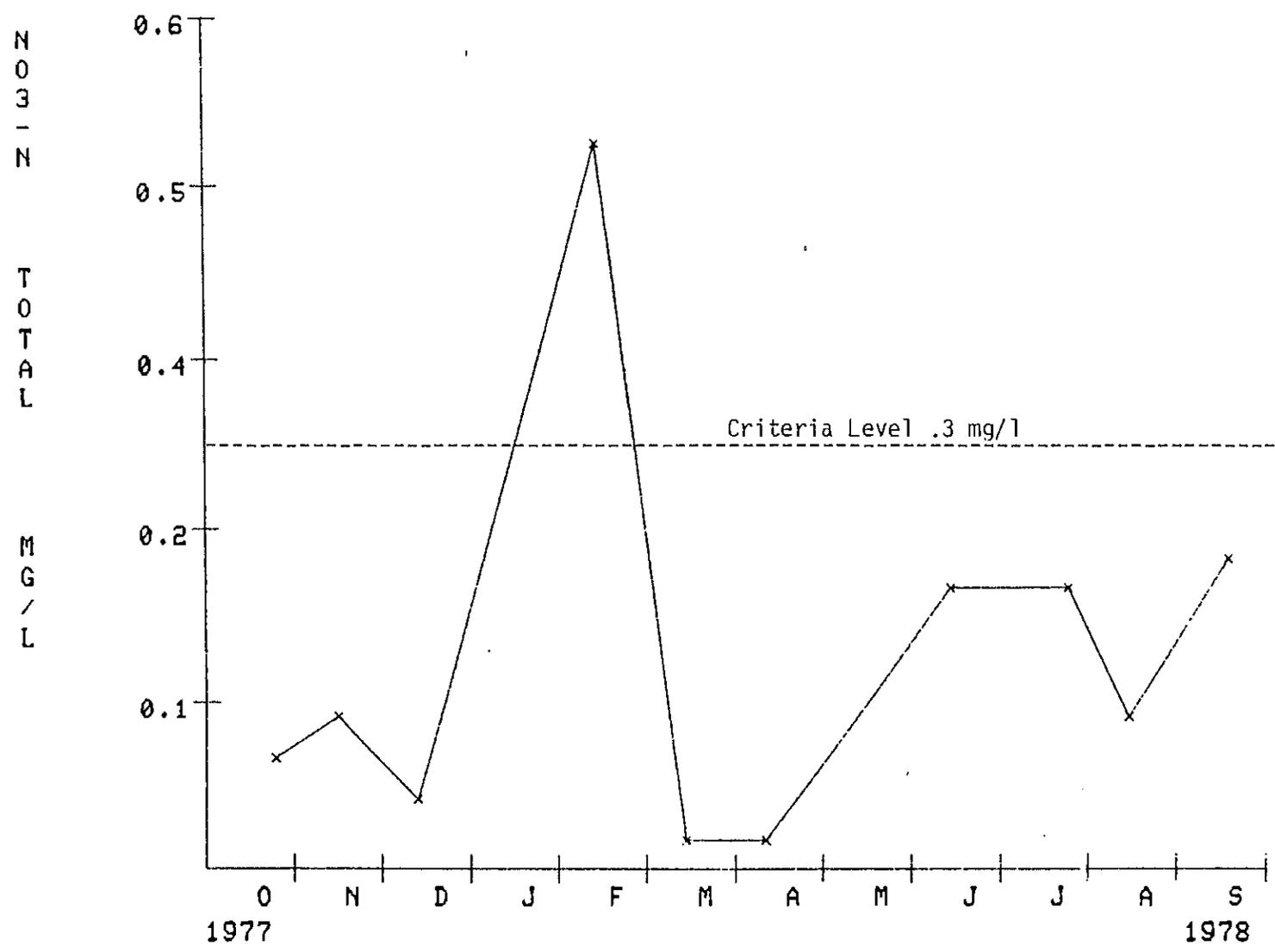
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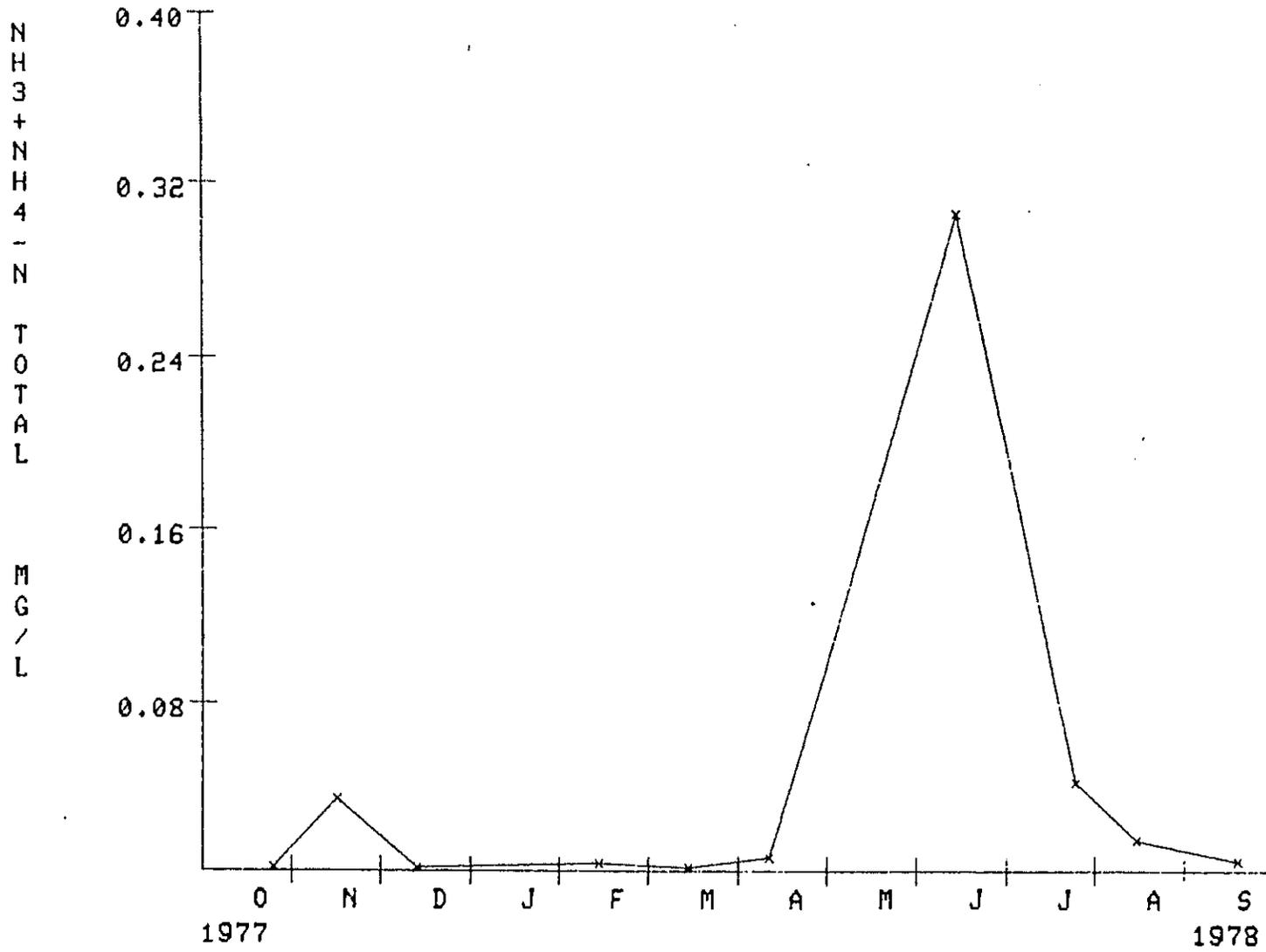
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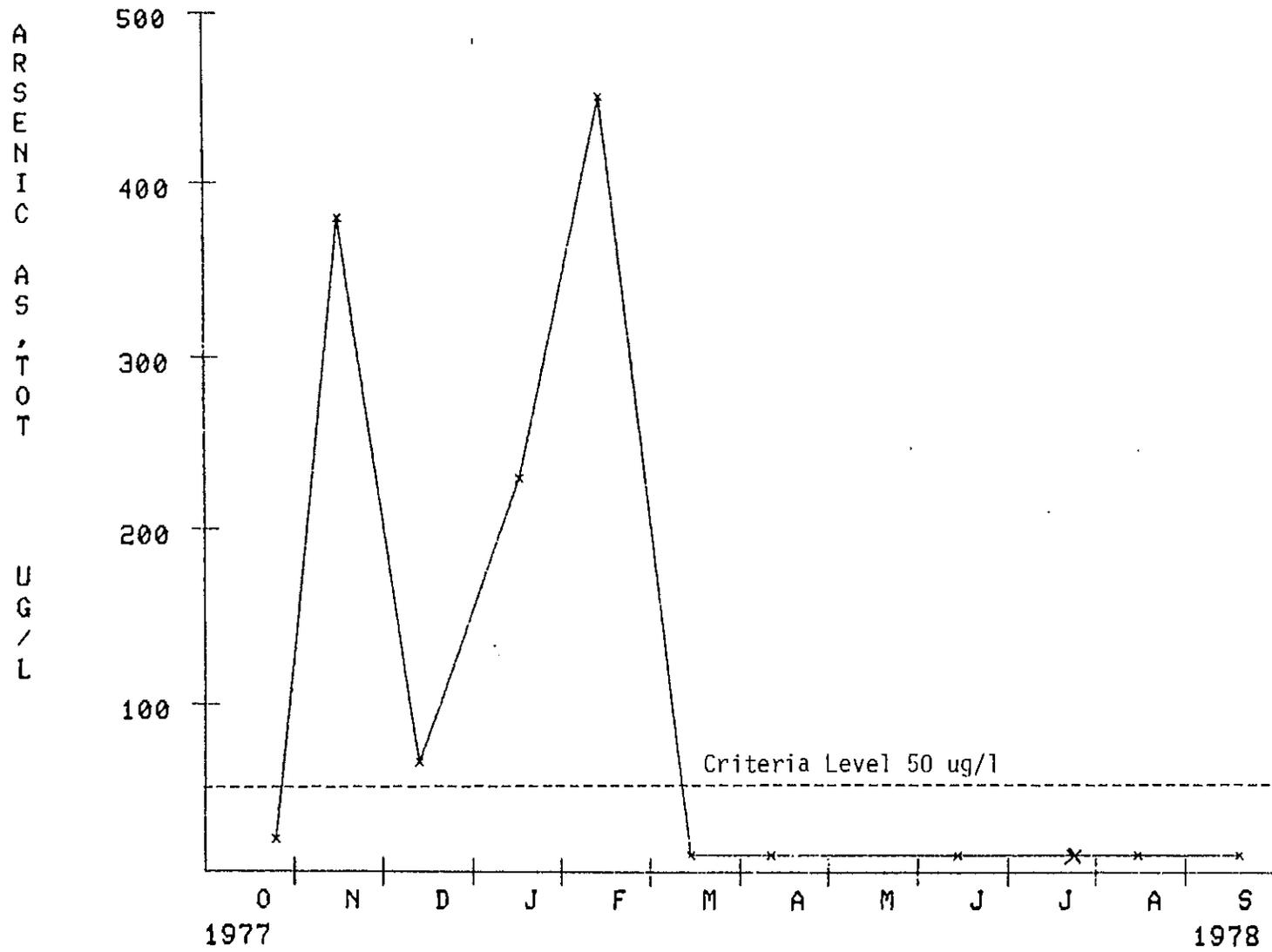
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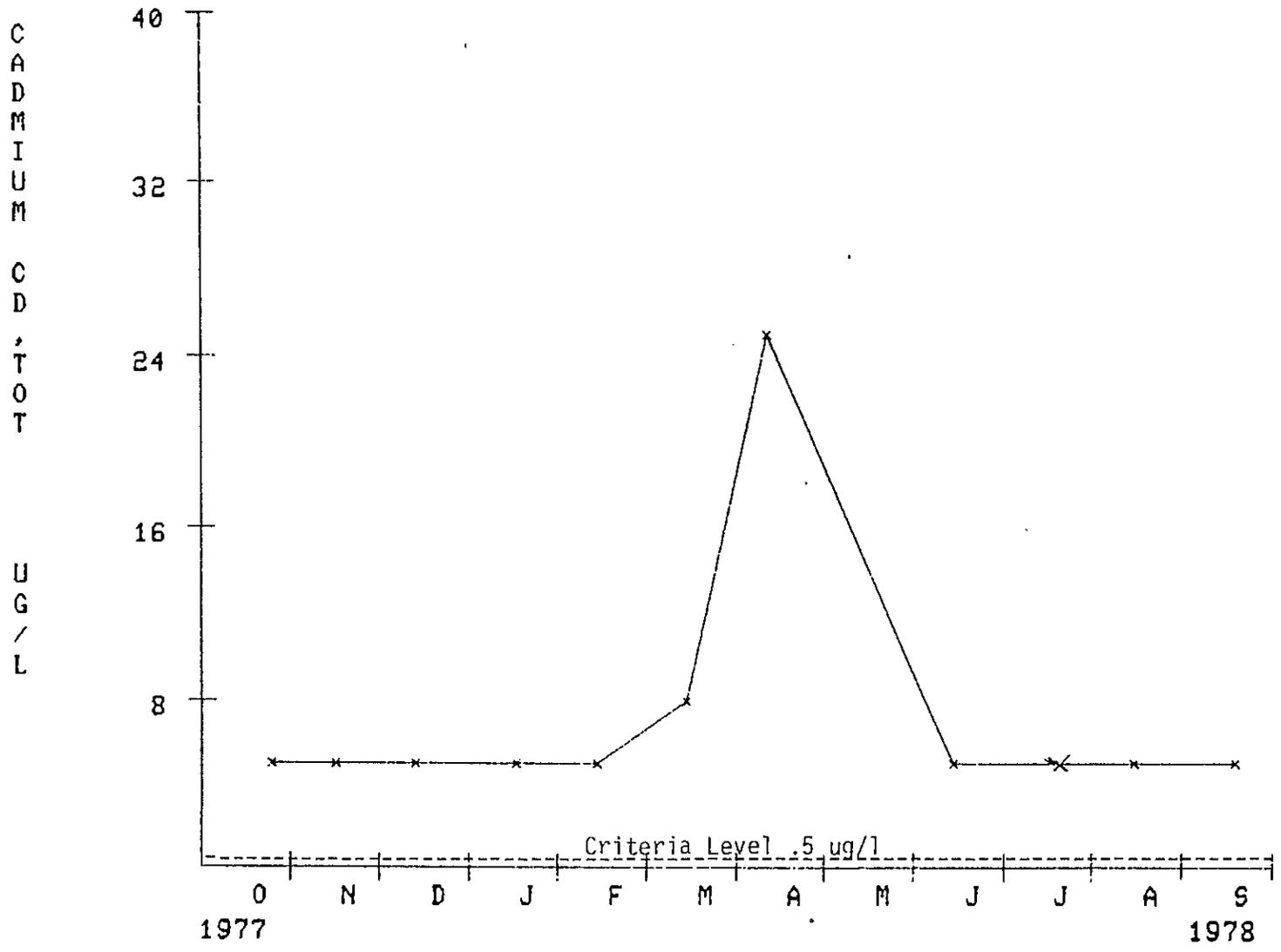
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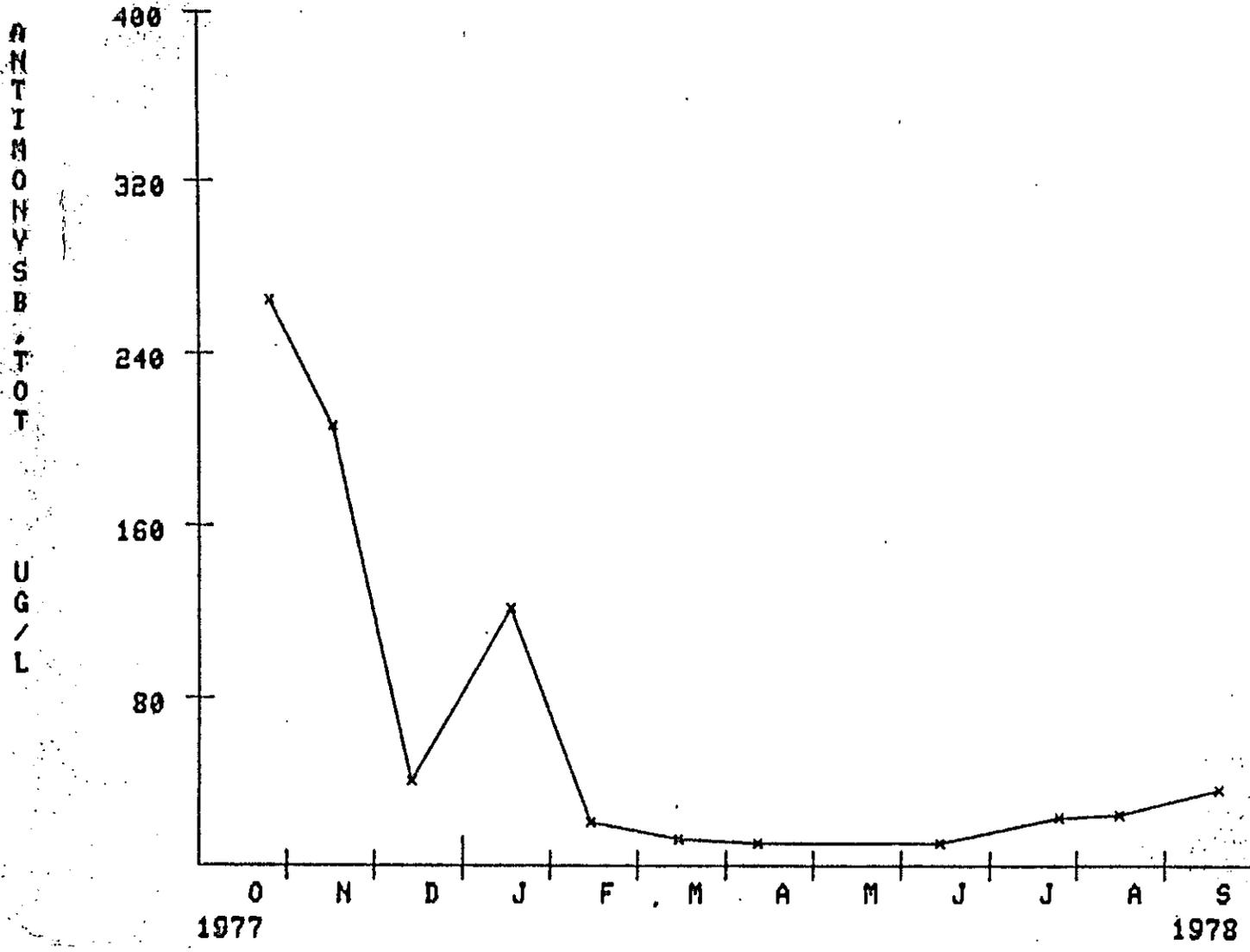
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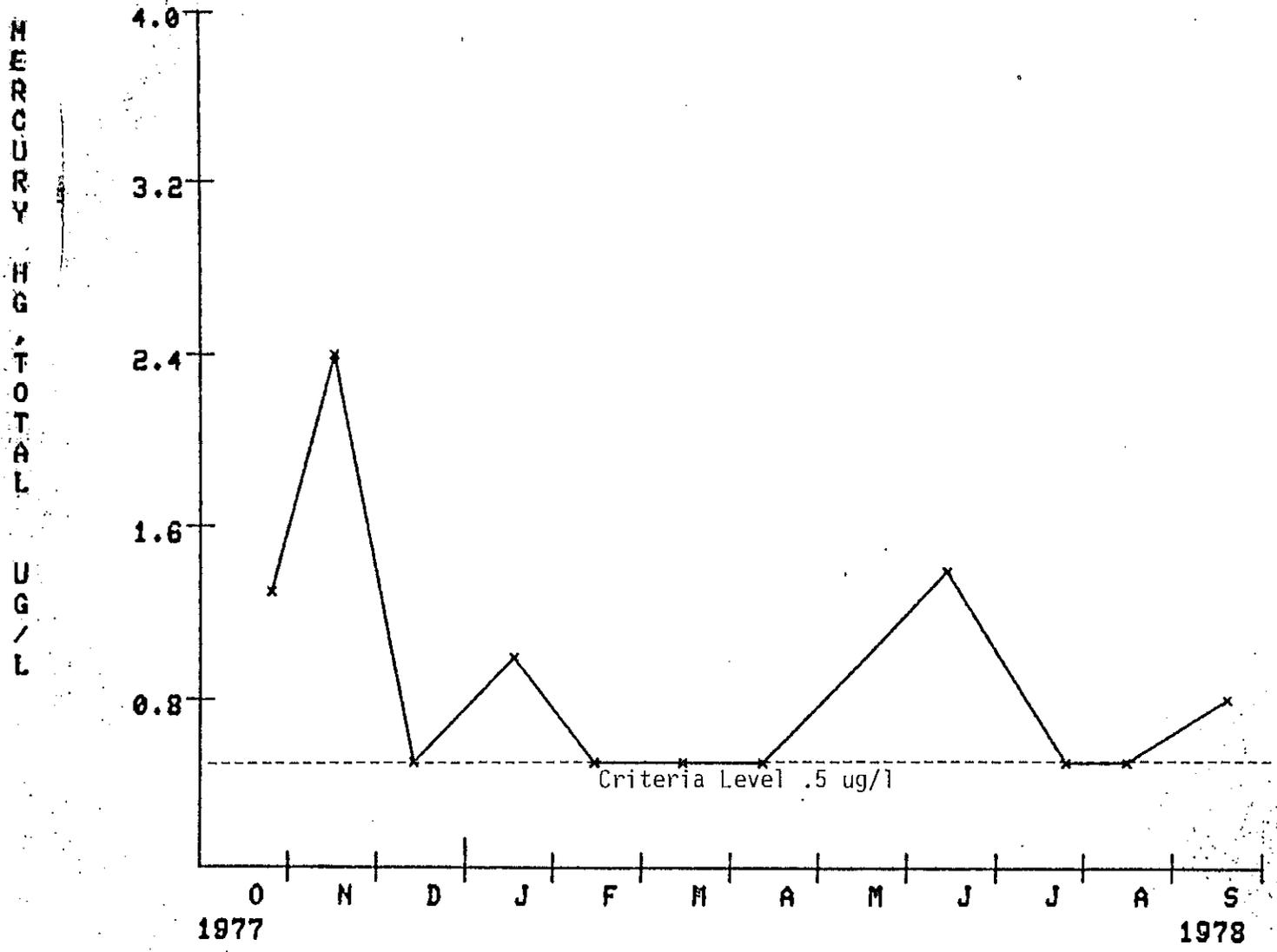
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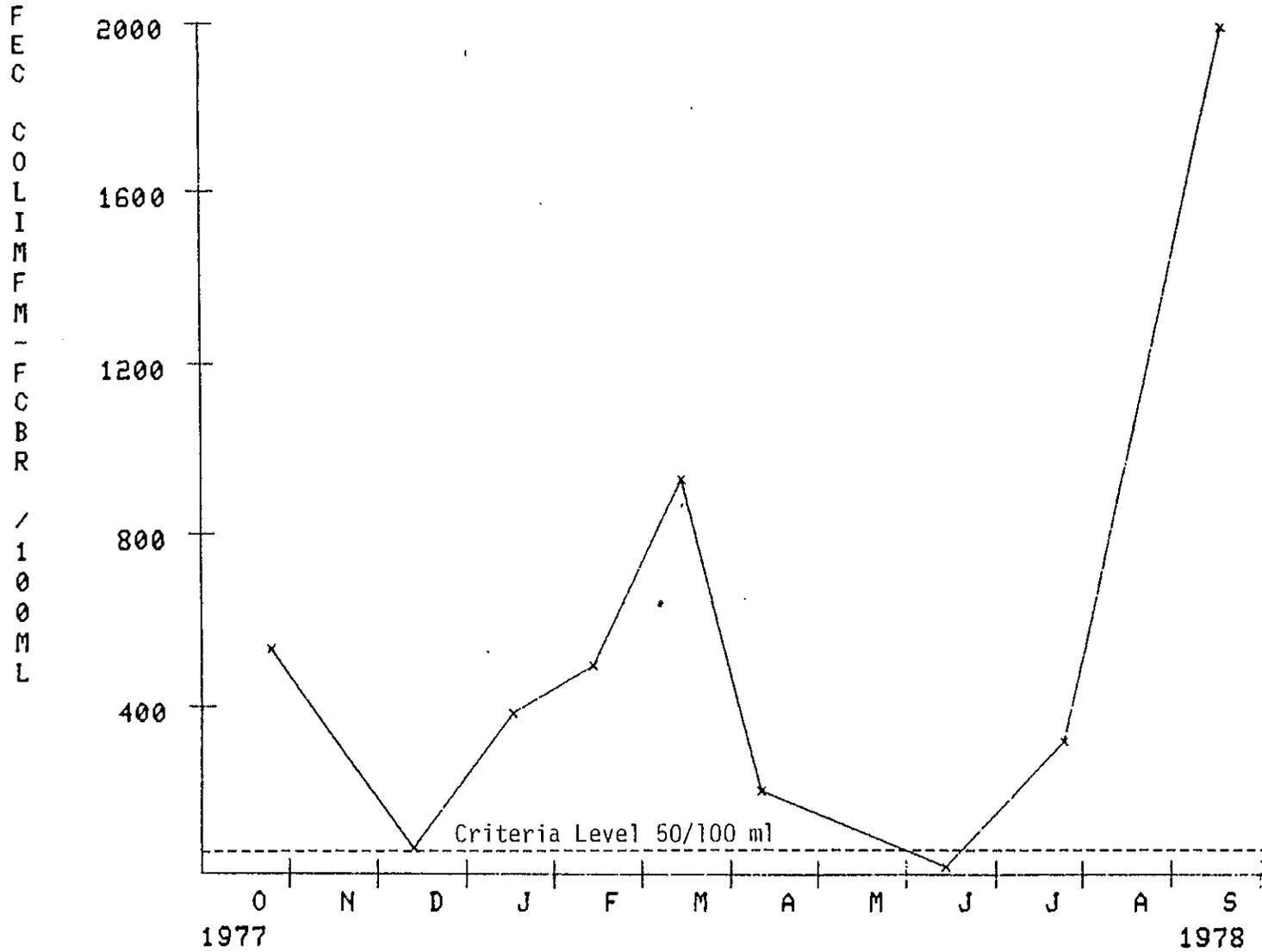
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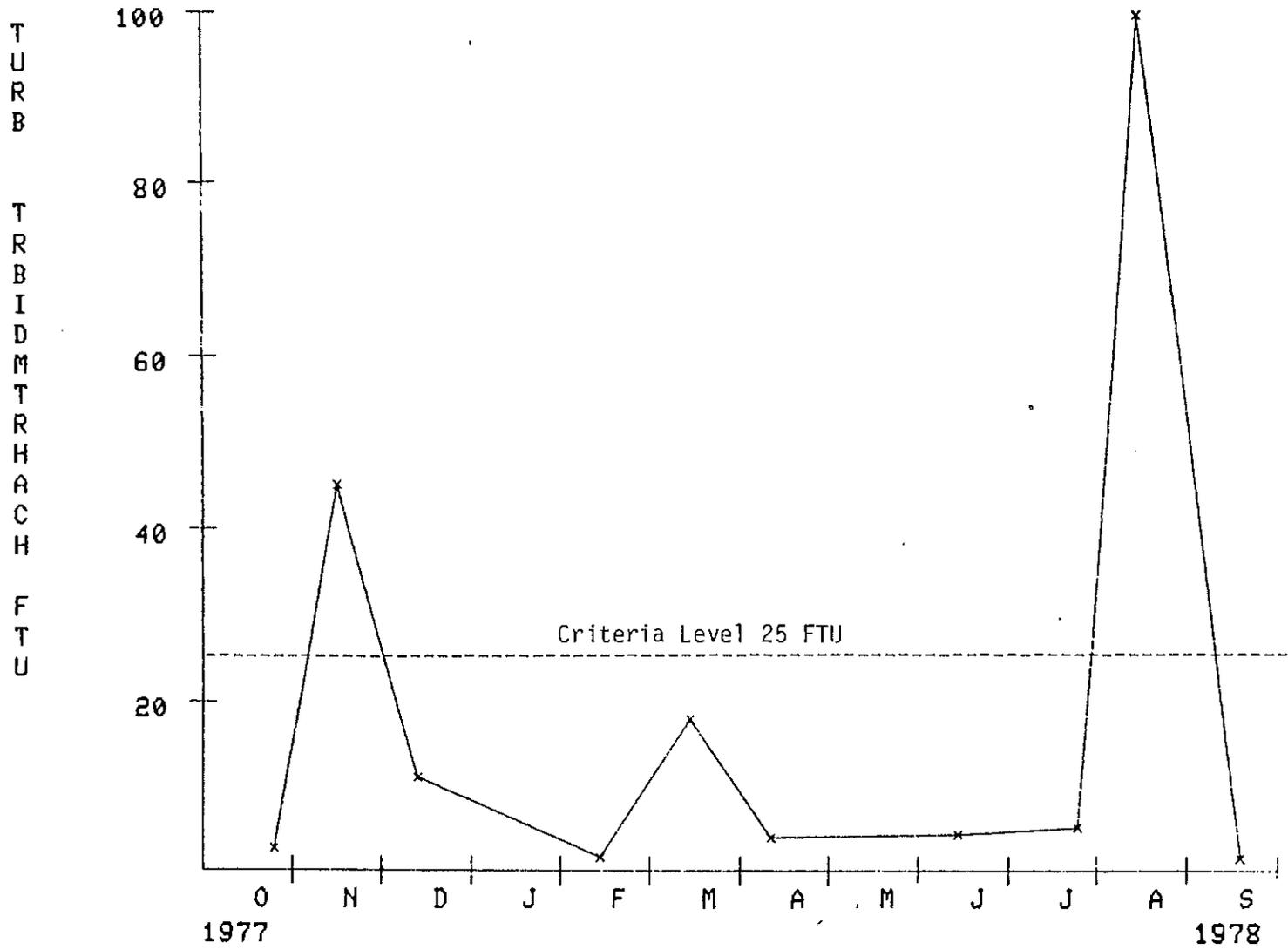
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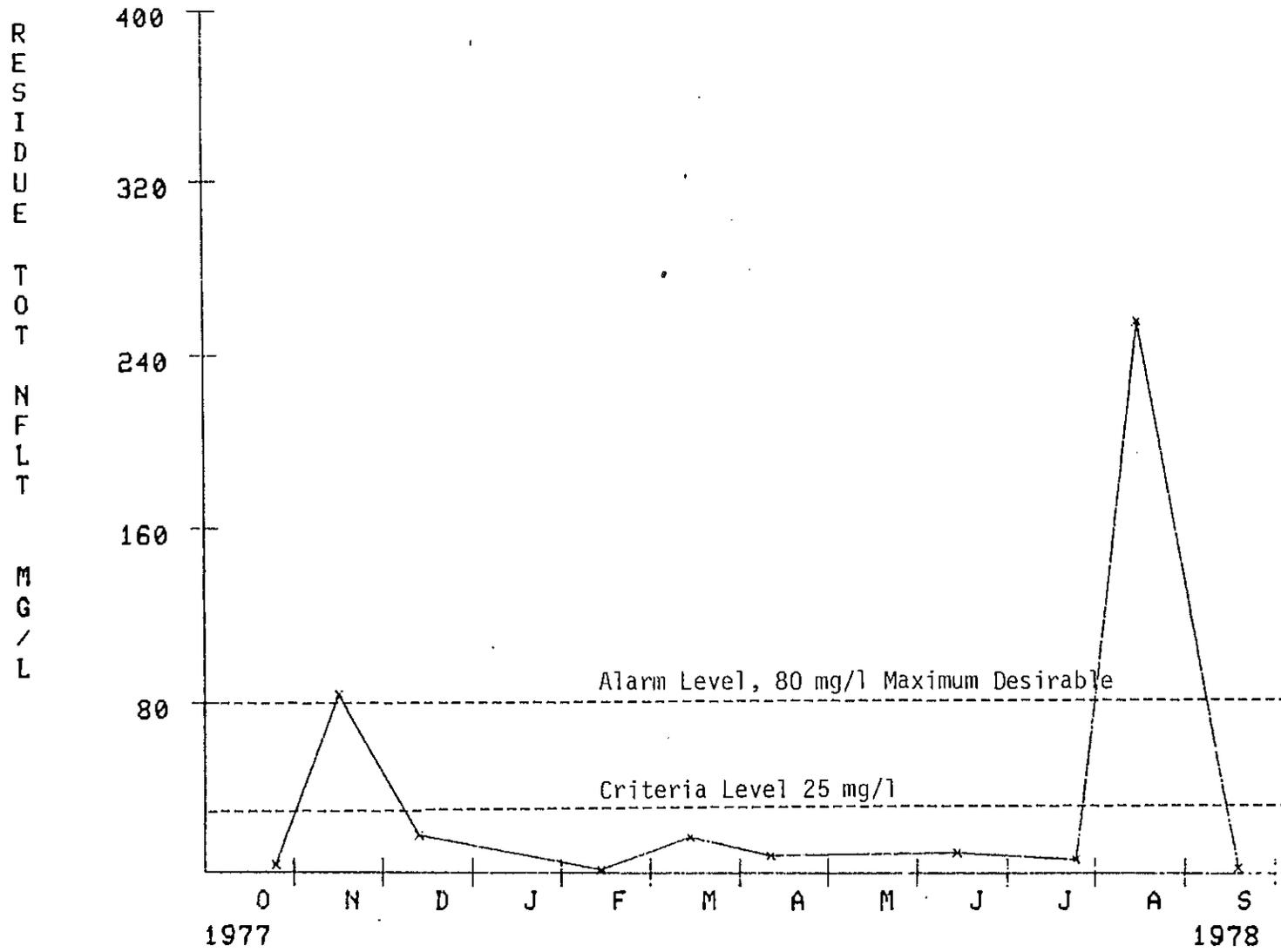
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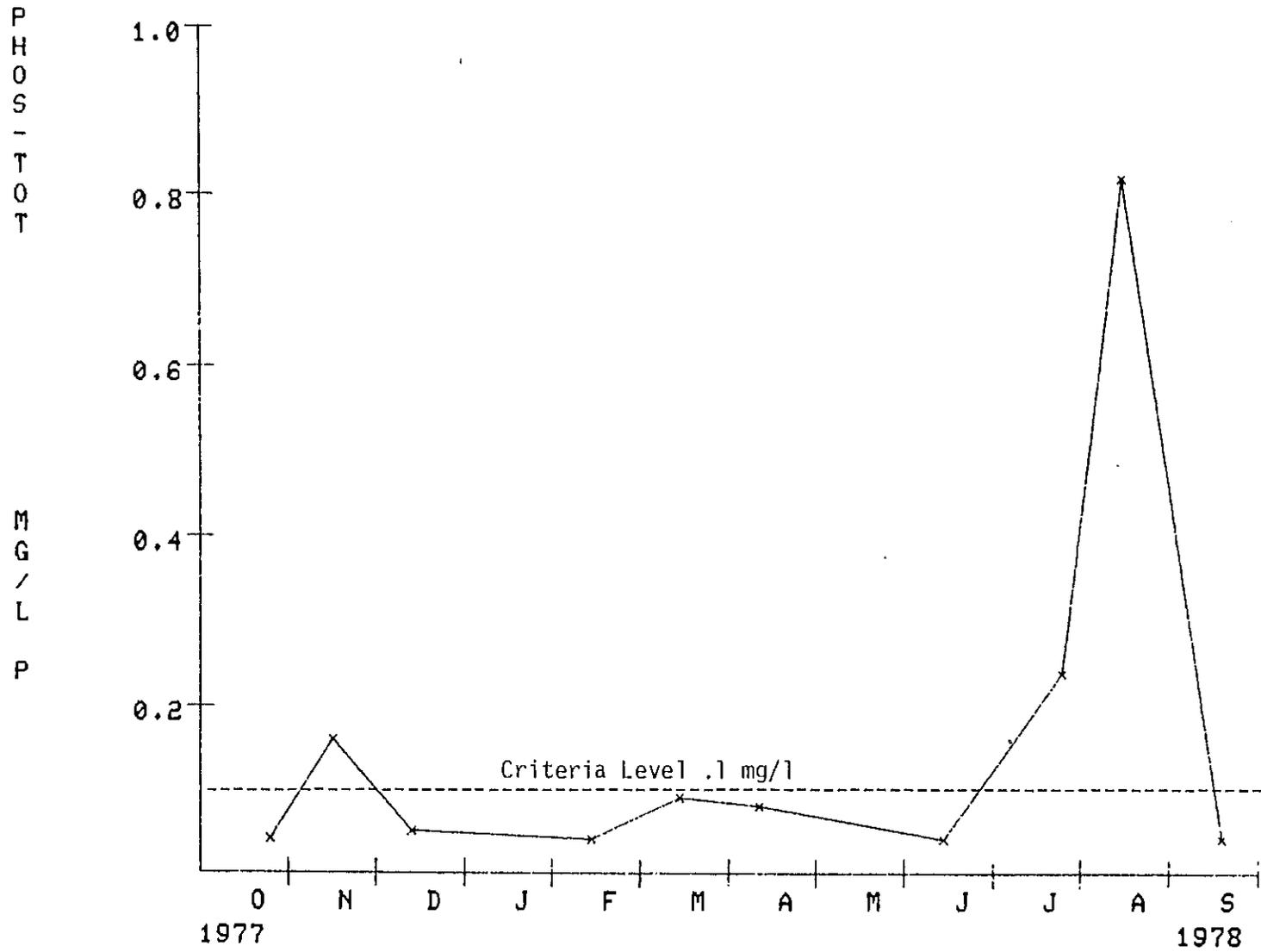
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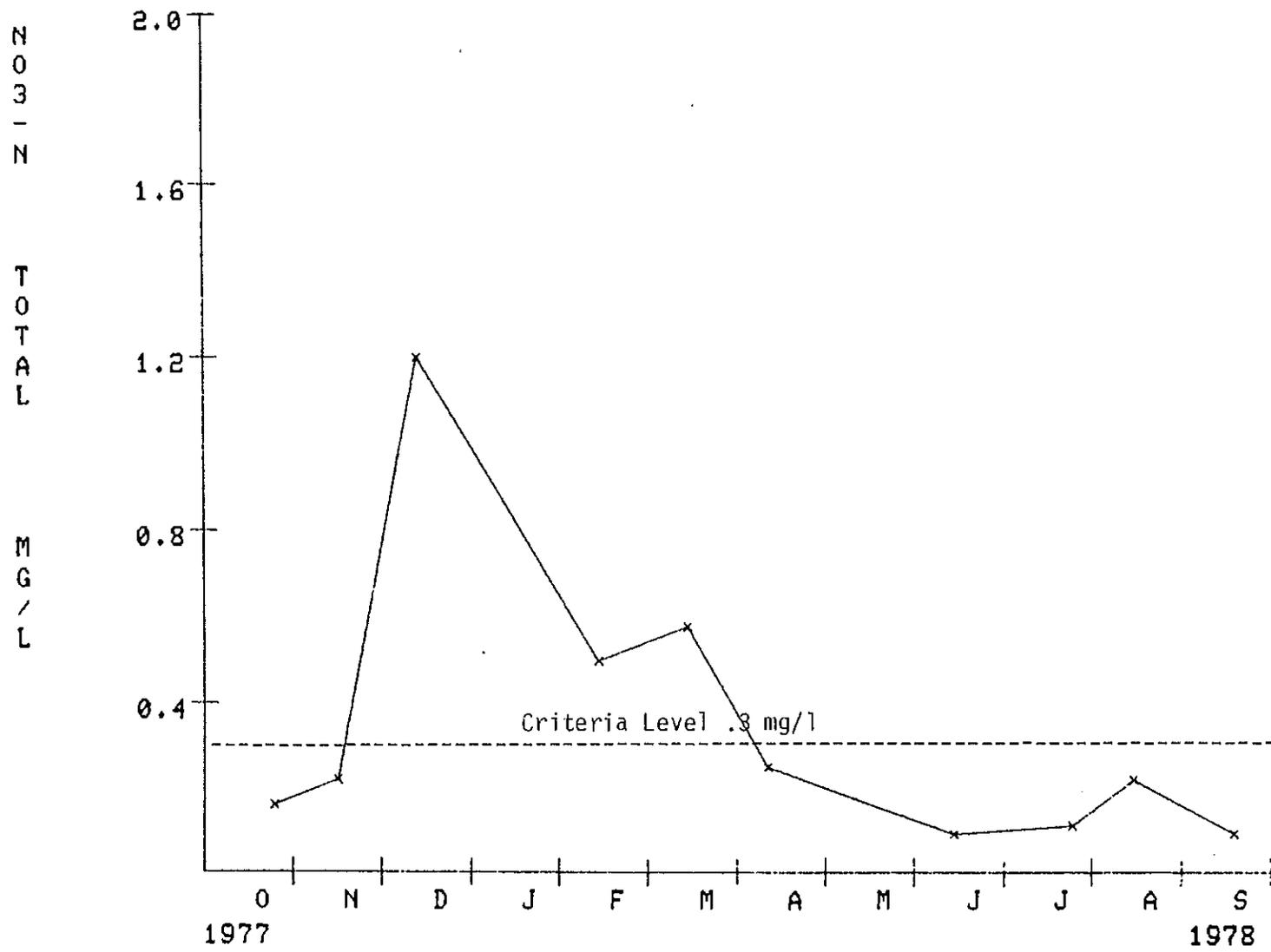
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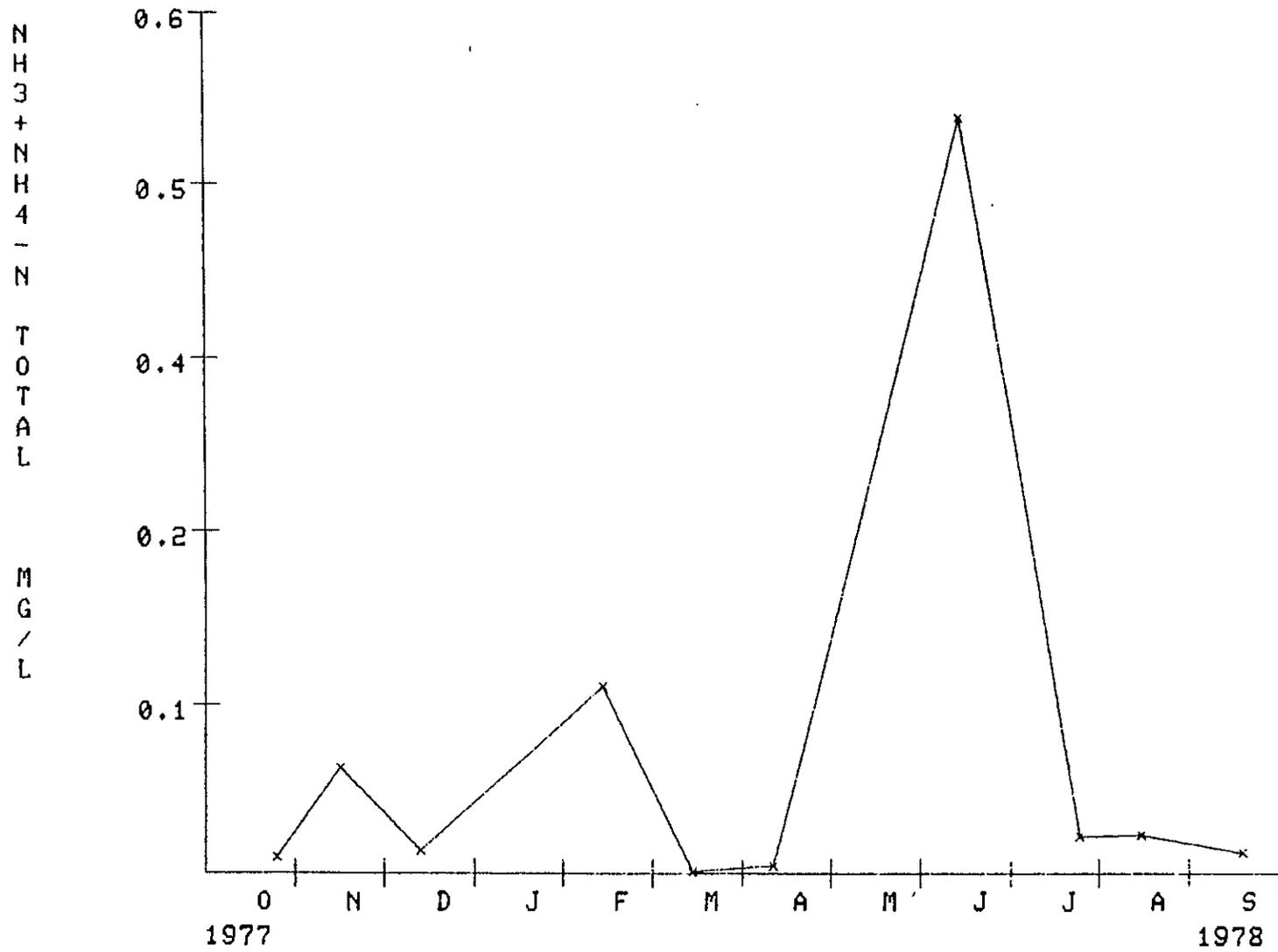
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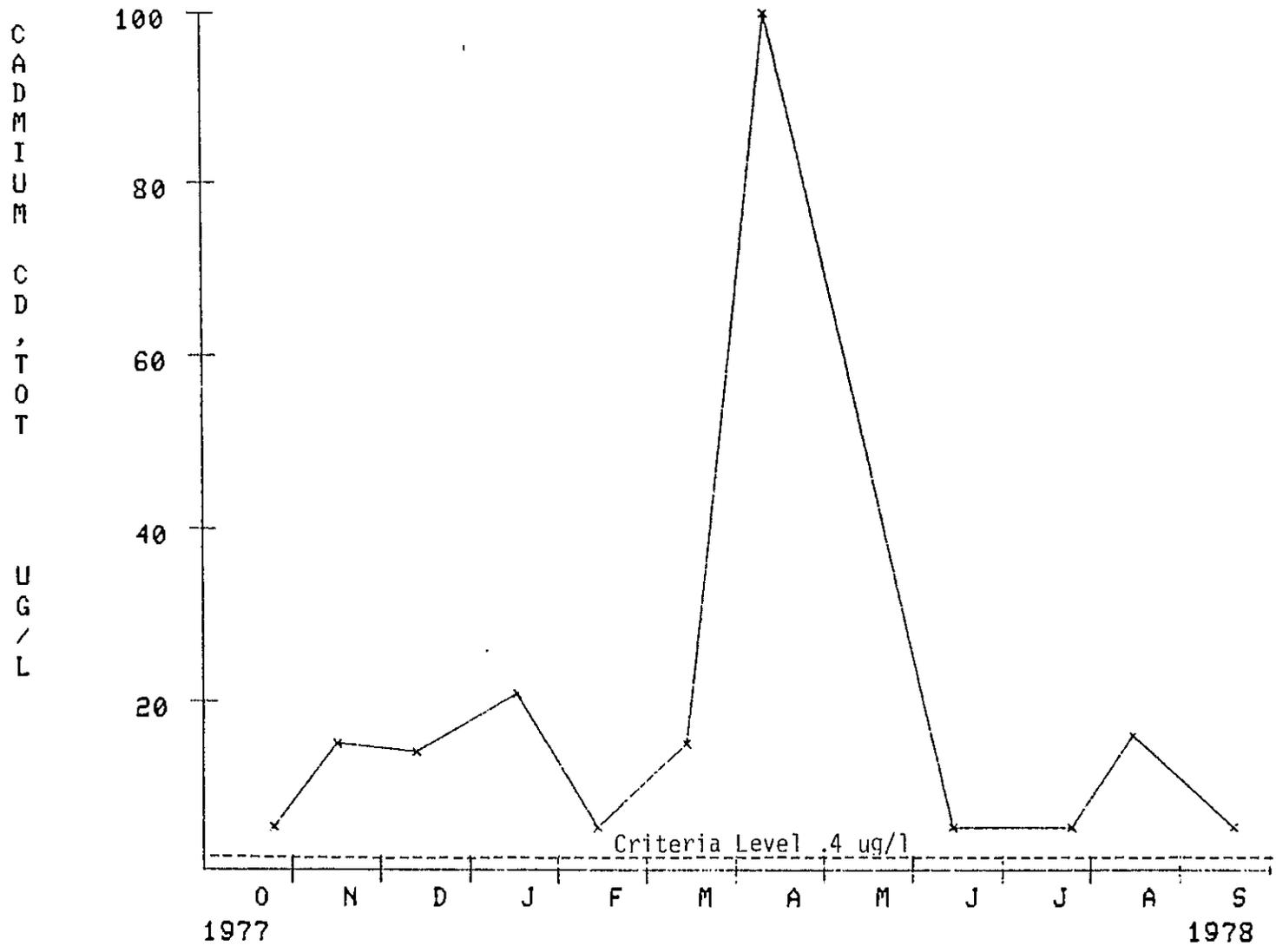
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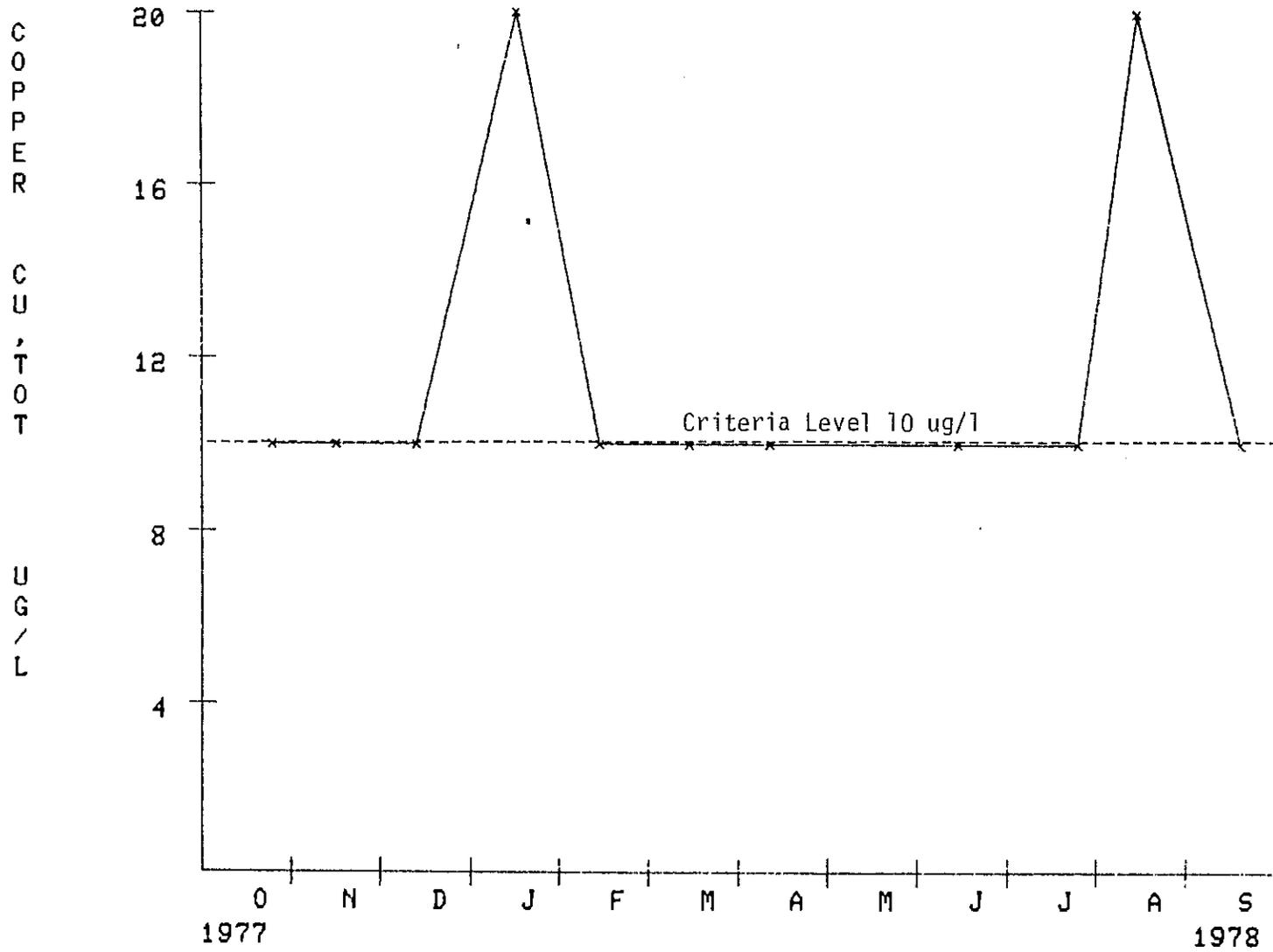
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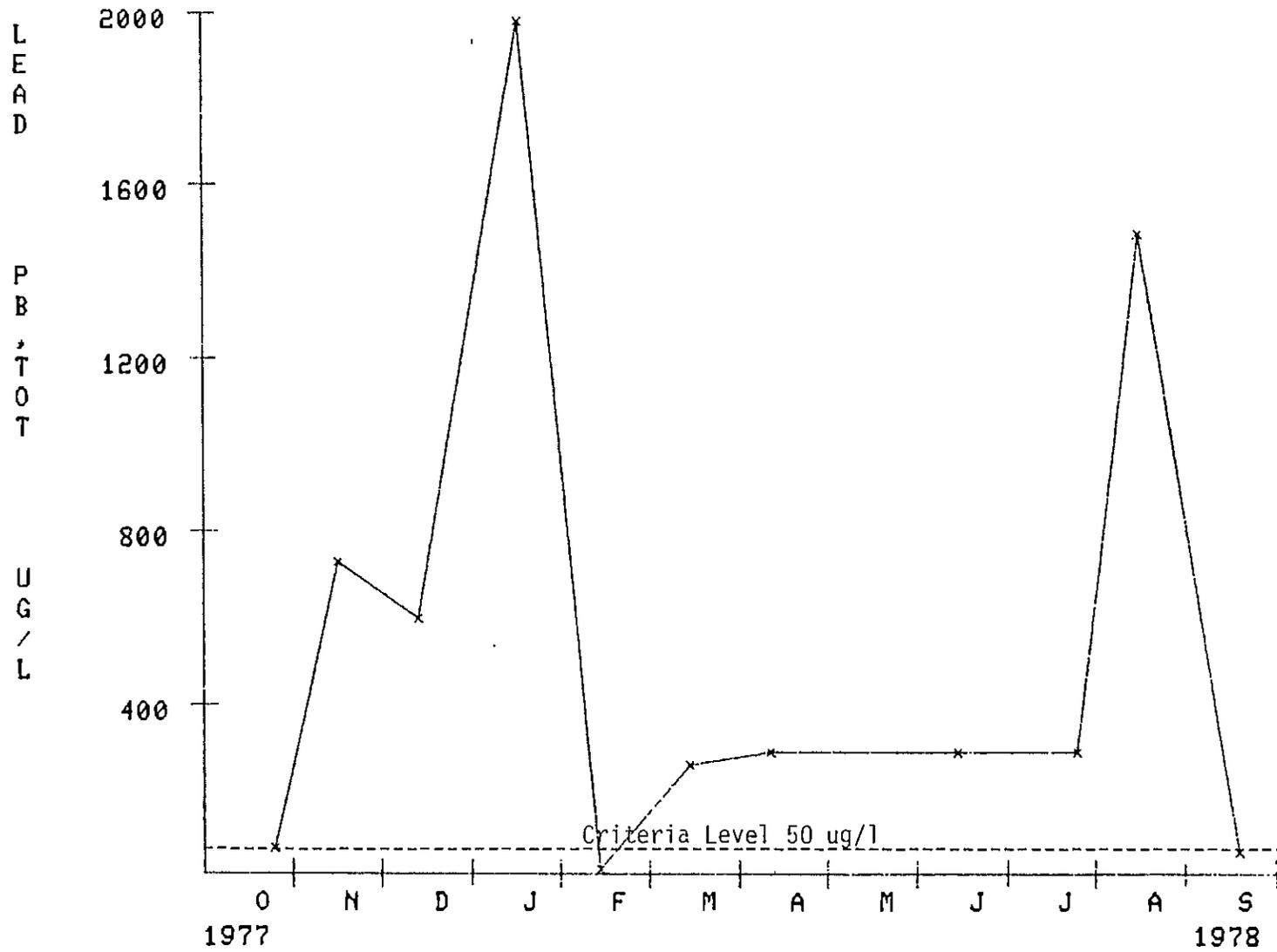
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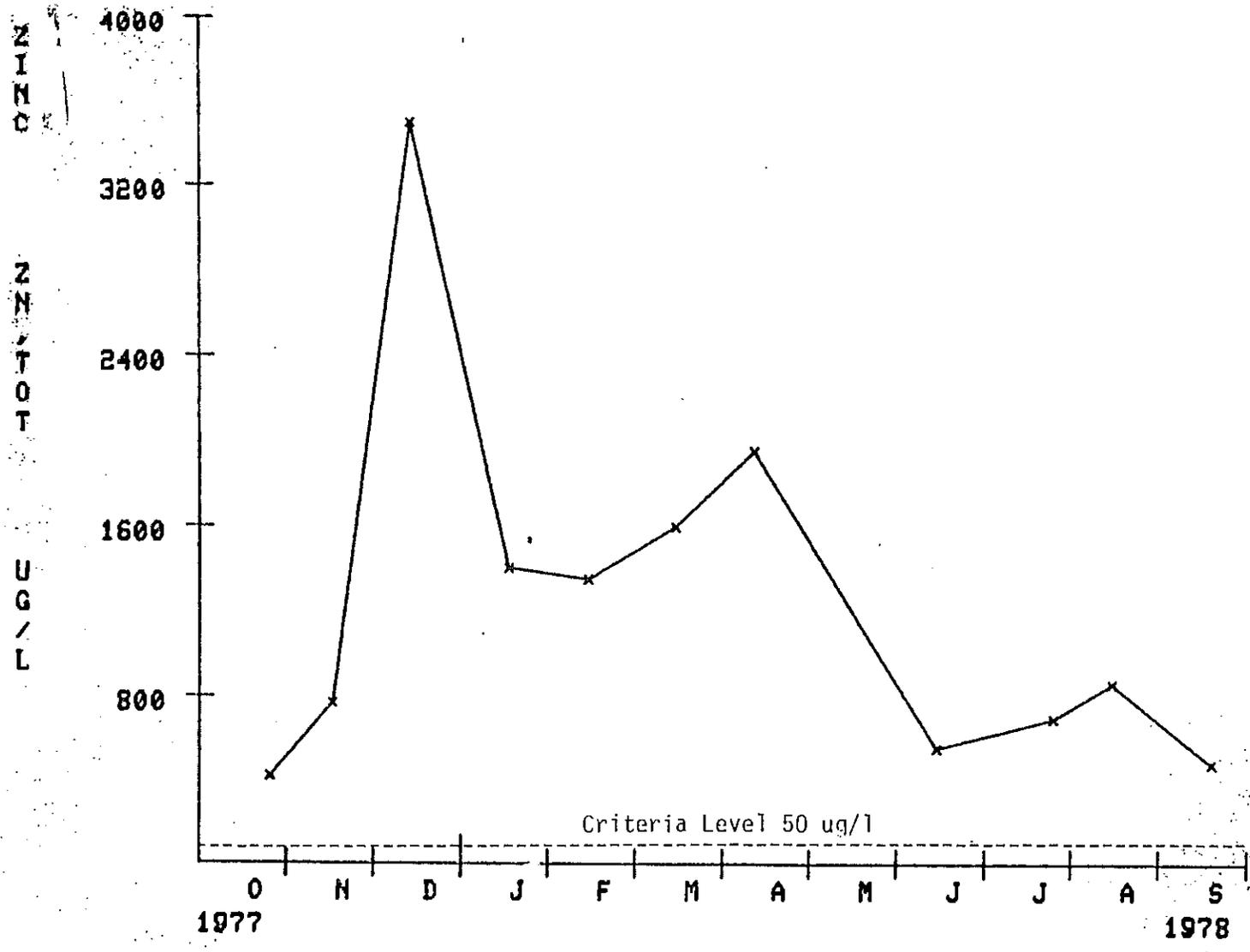
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STORET STATION 2000107
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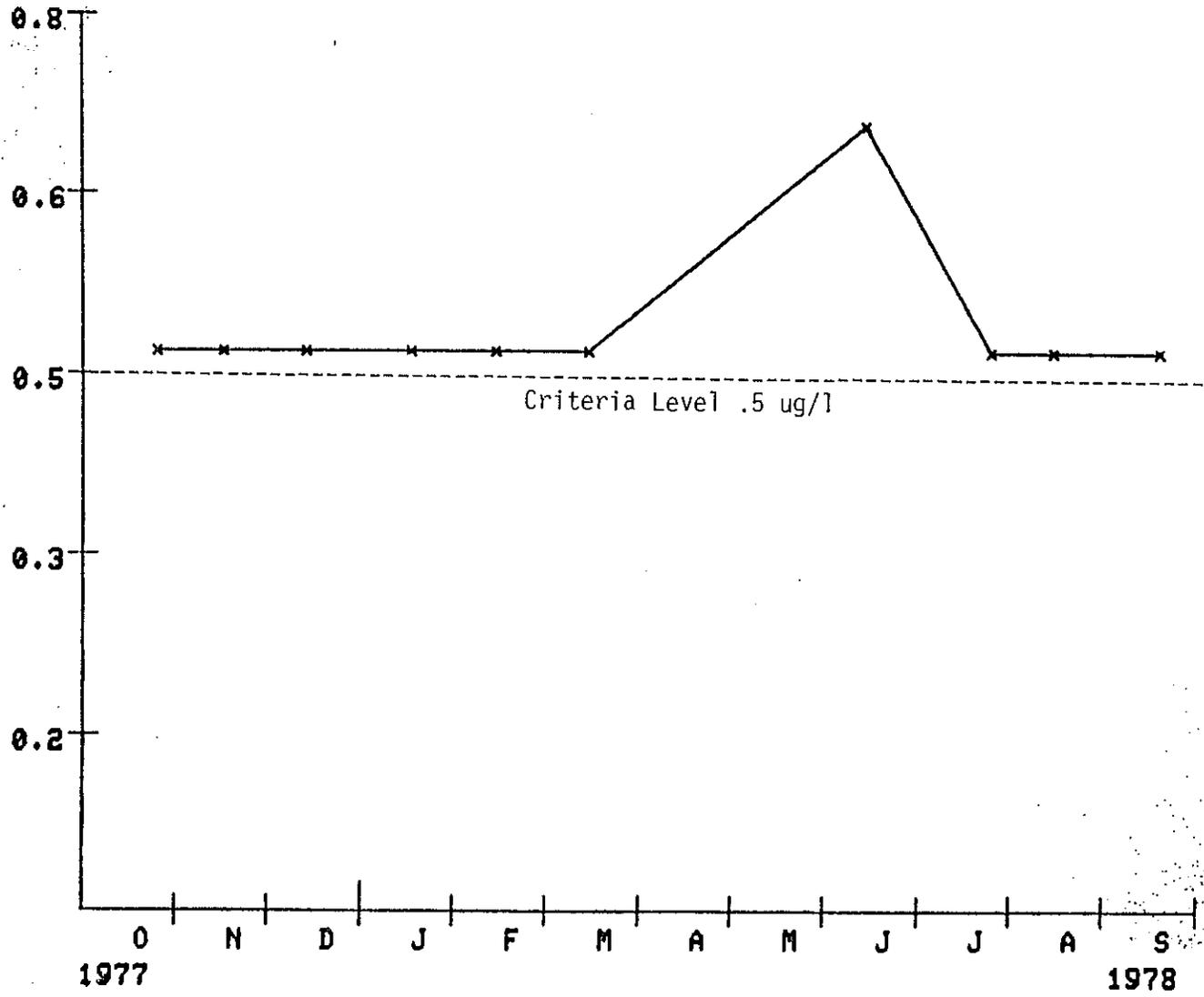


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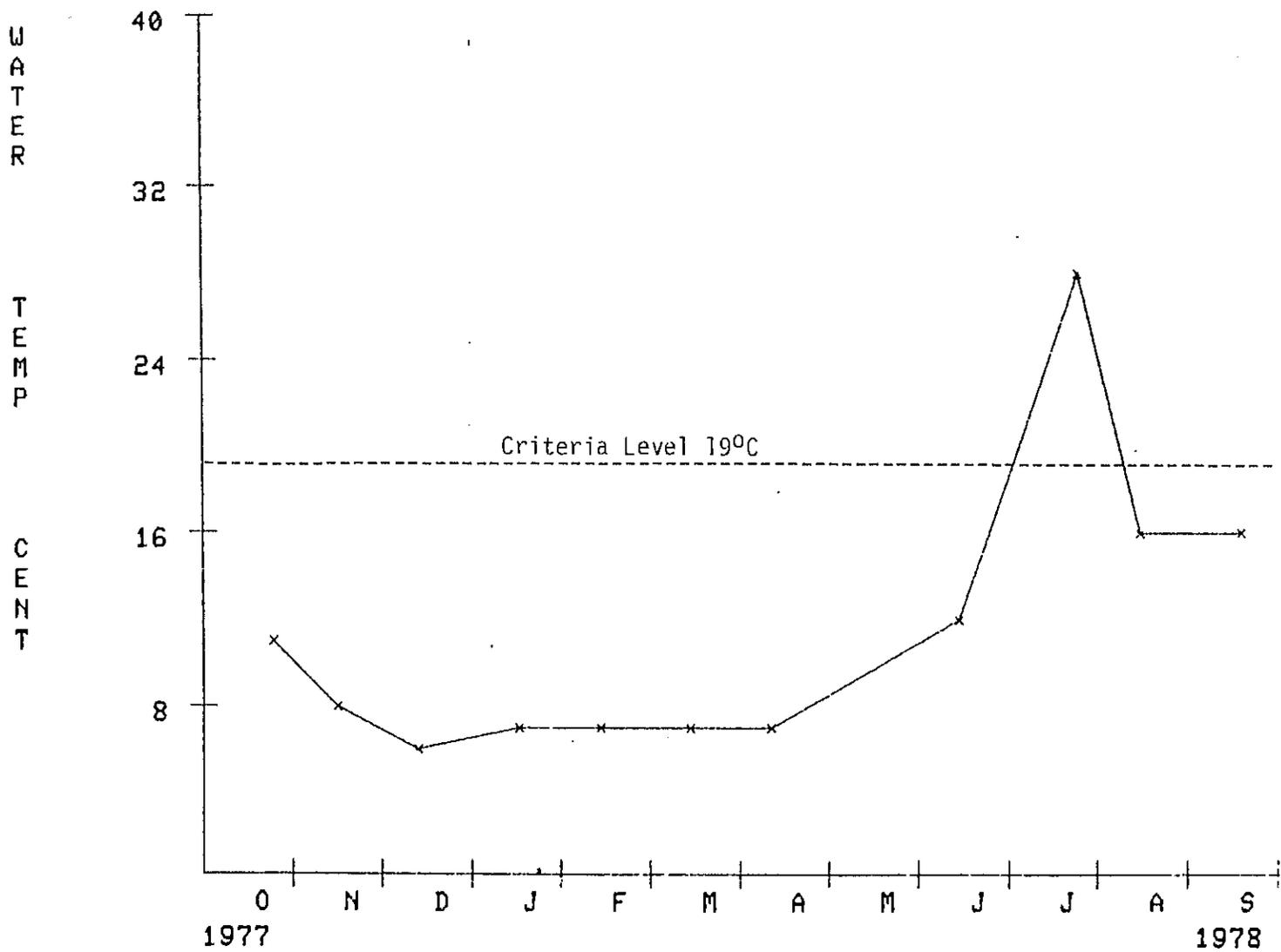


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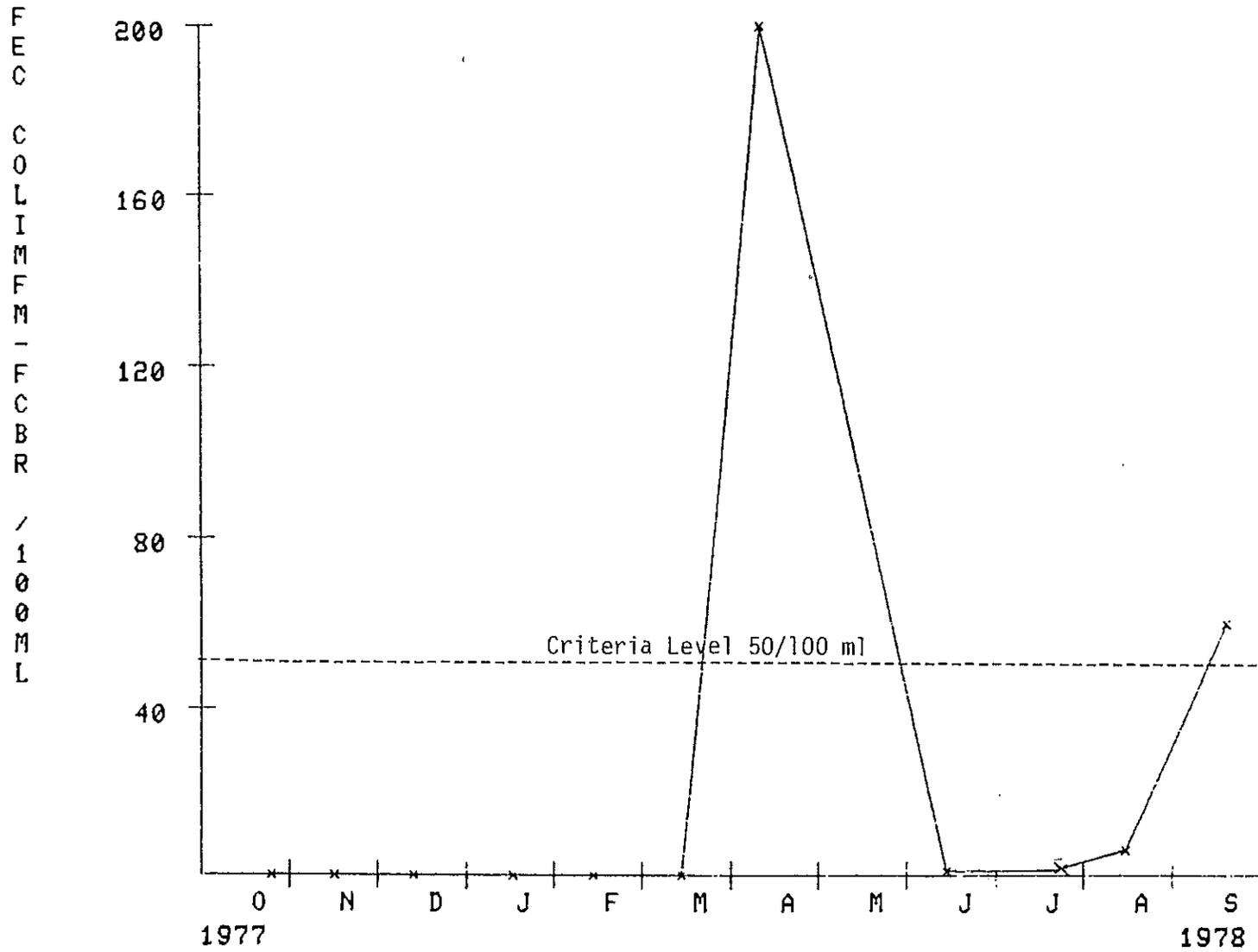
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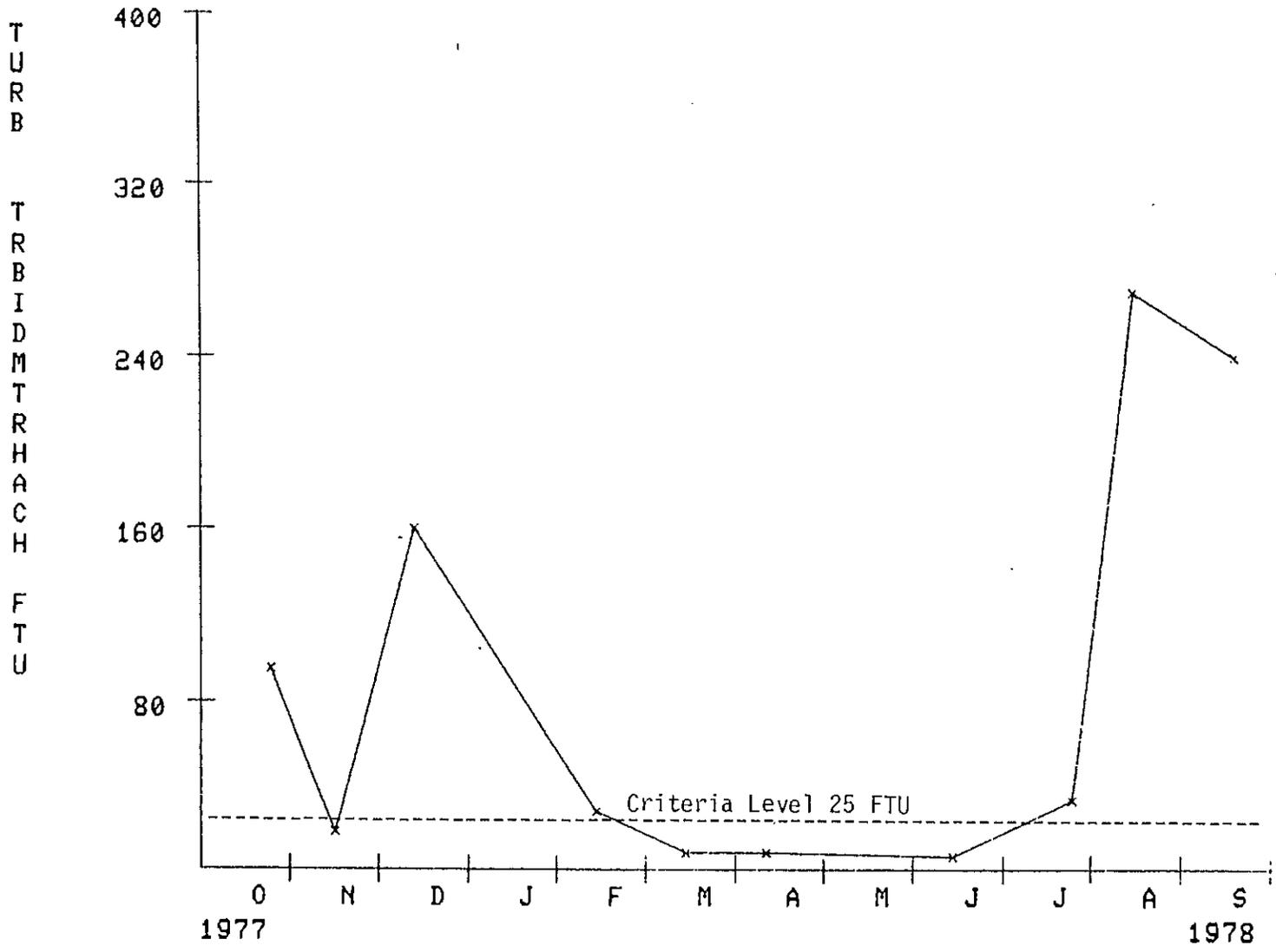
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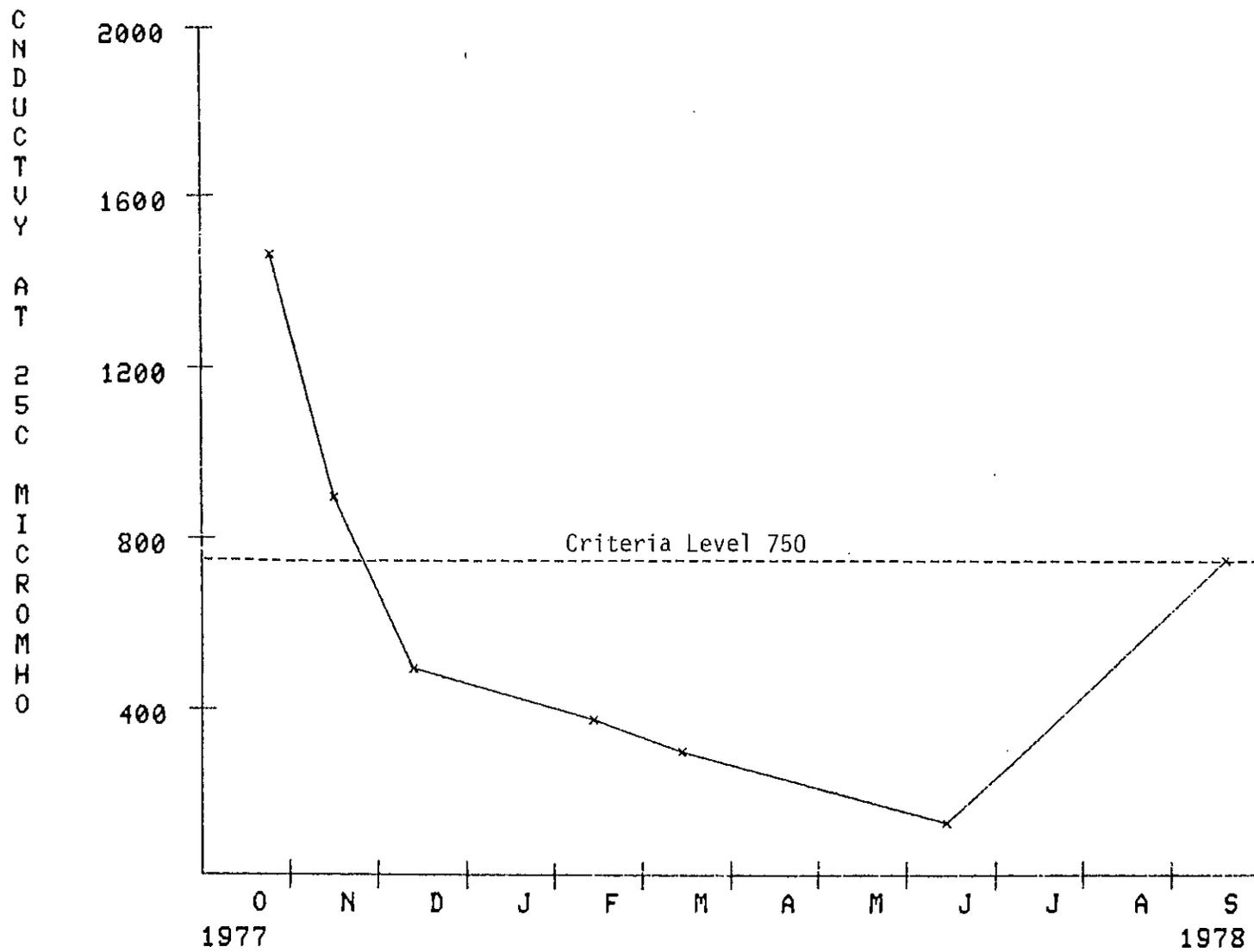
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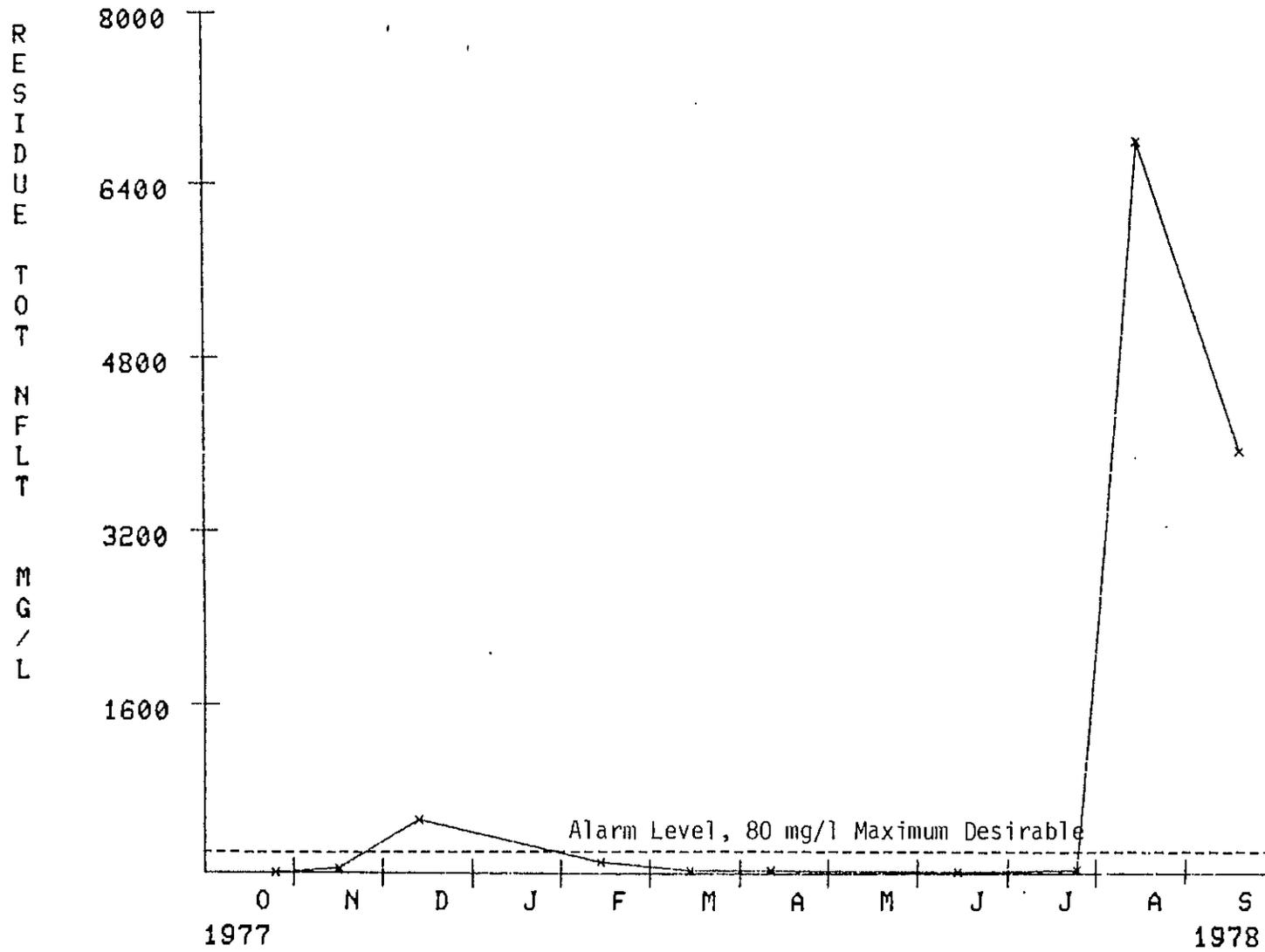
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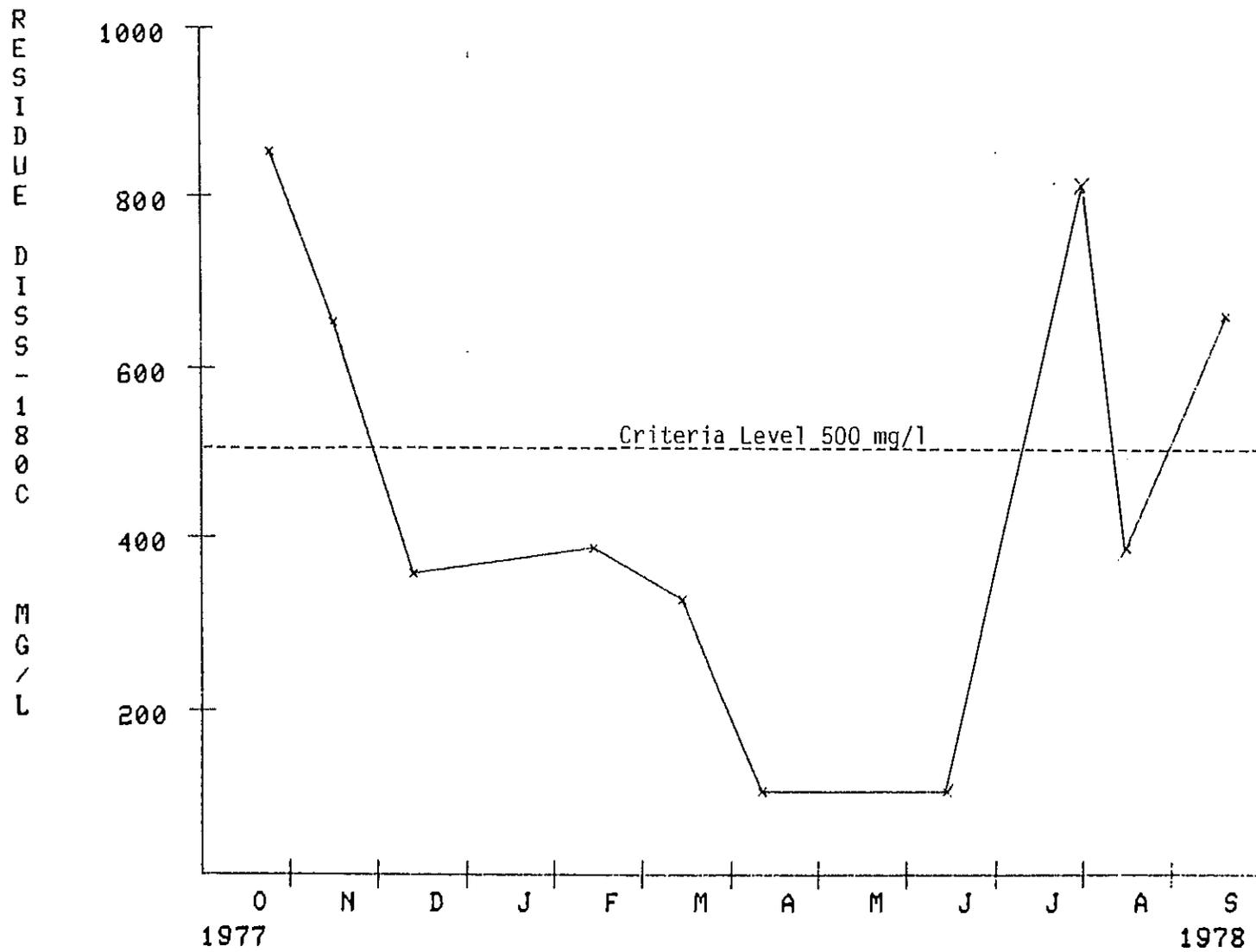
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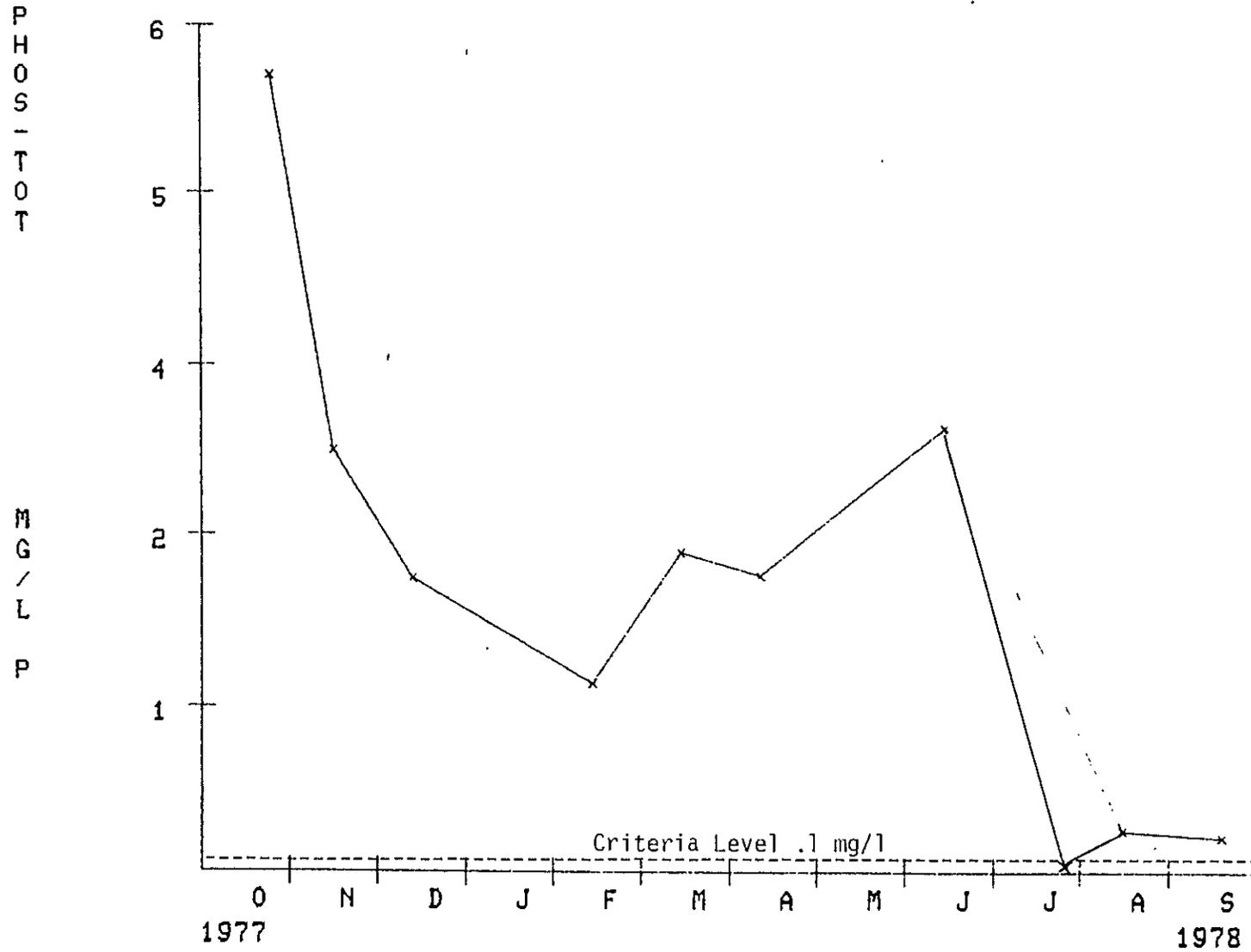
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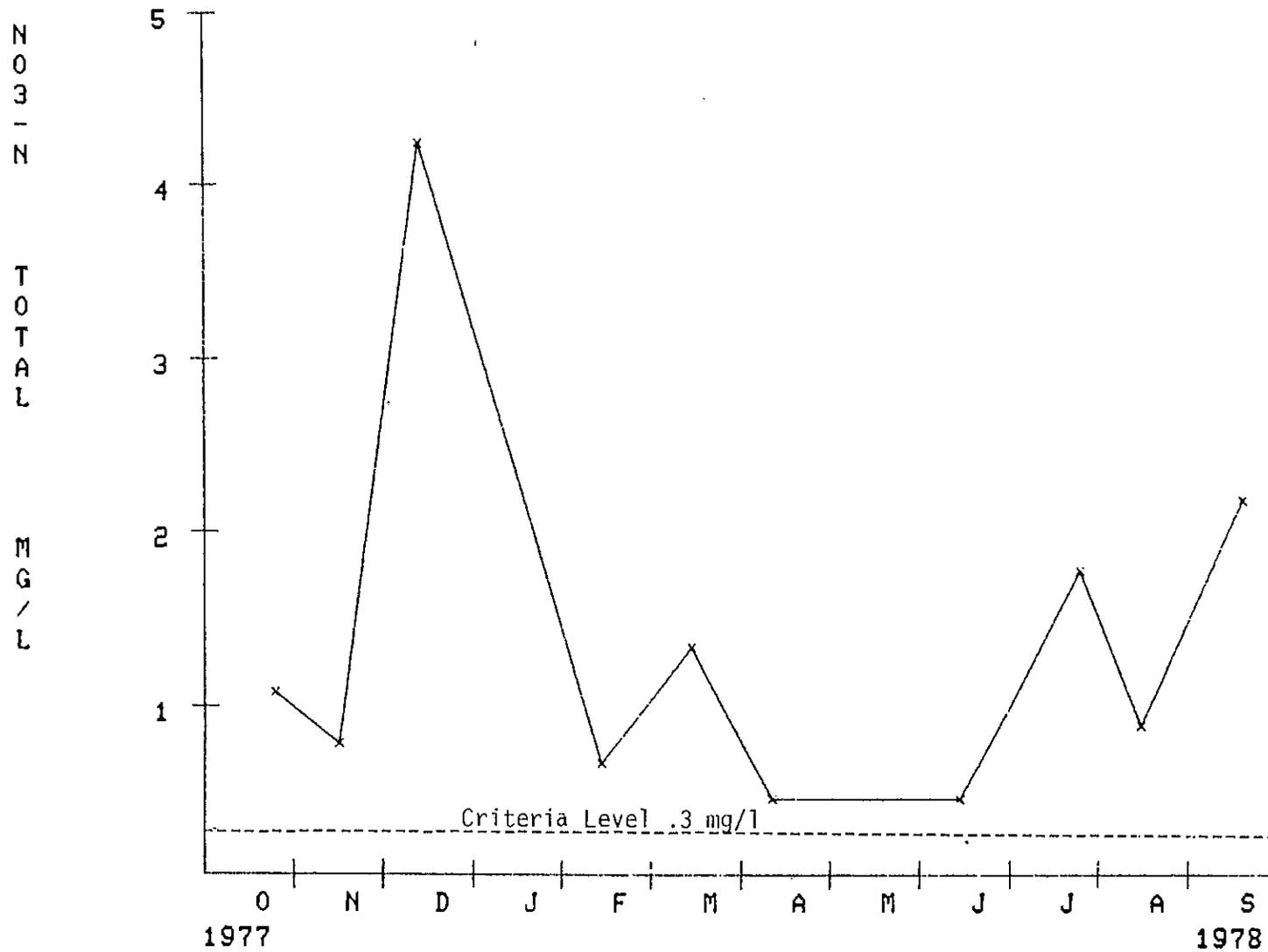
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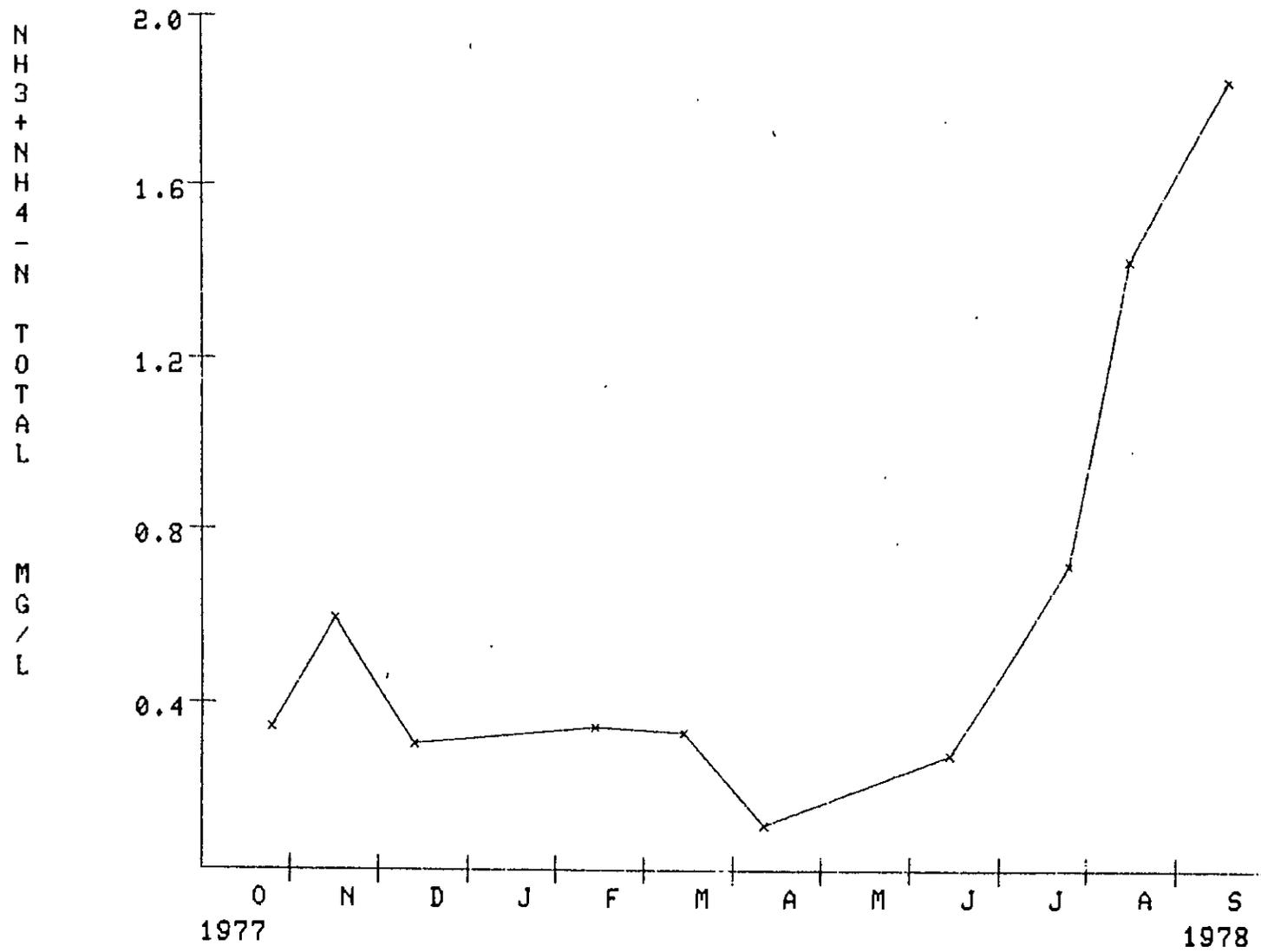
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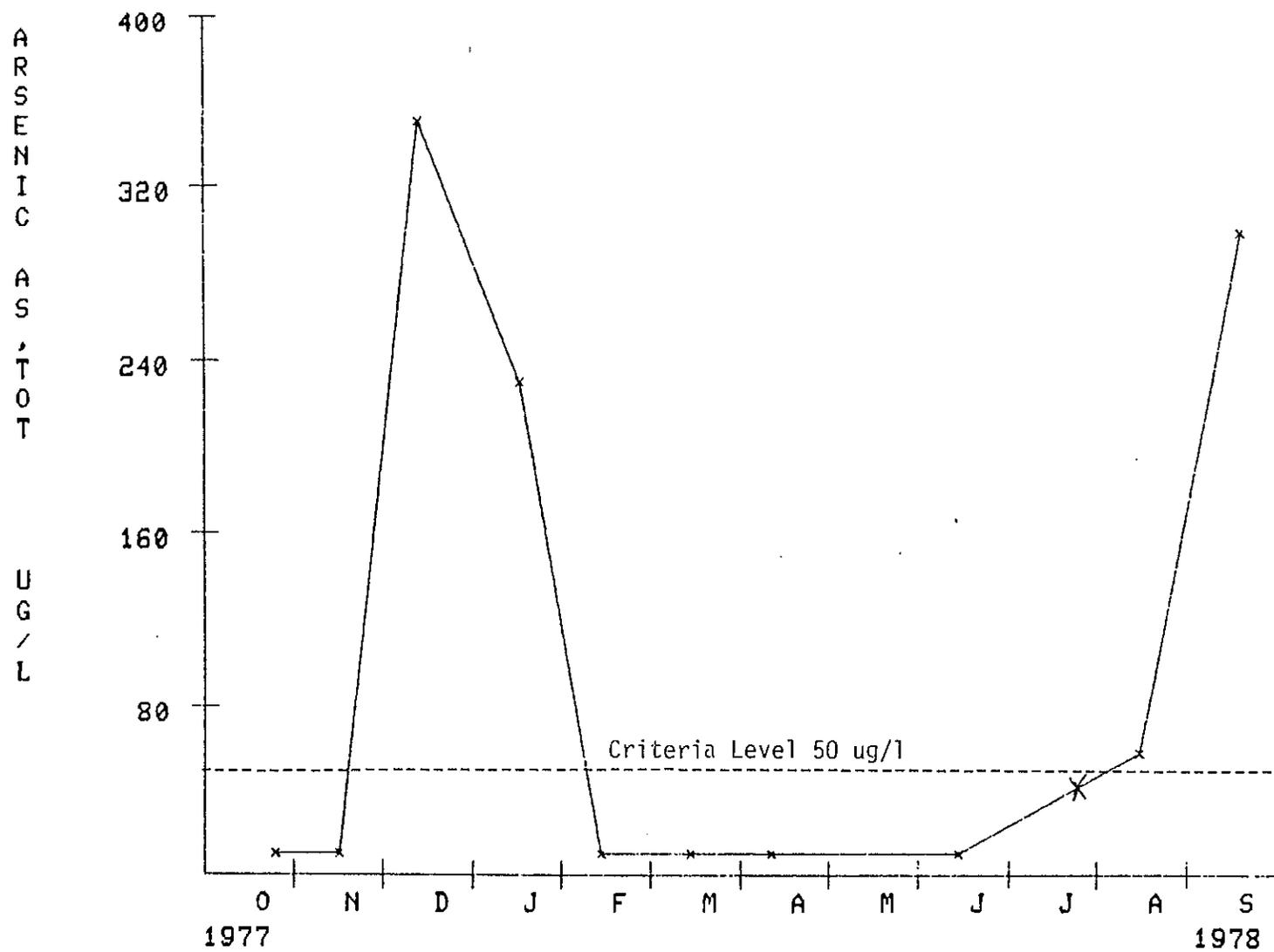
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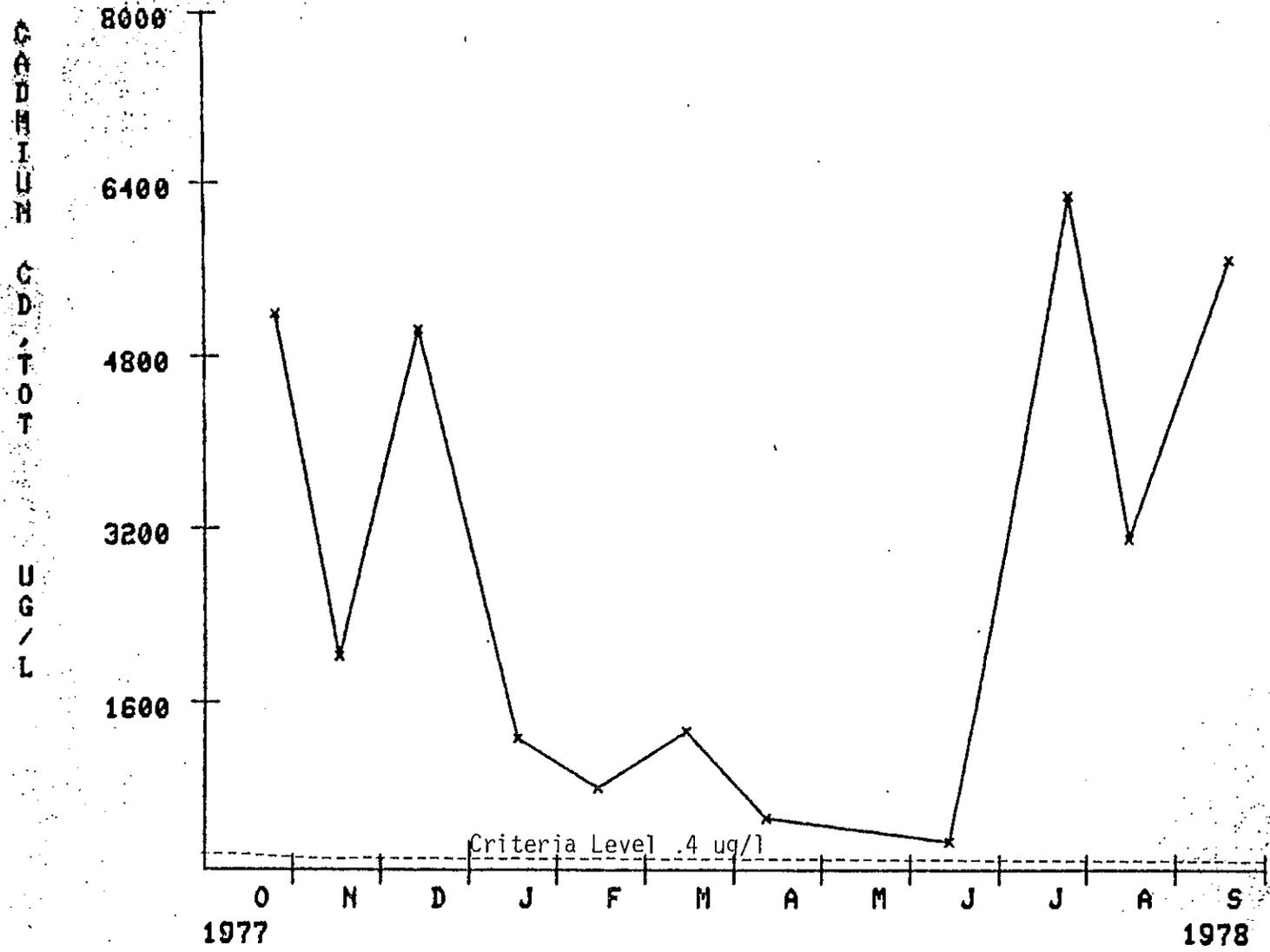
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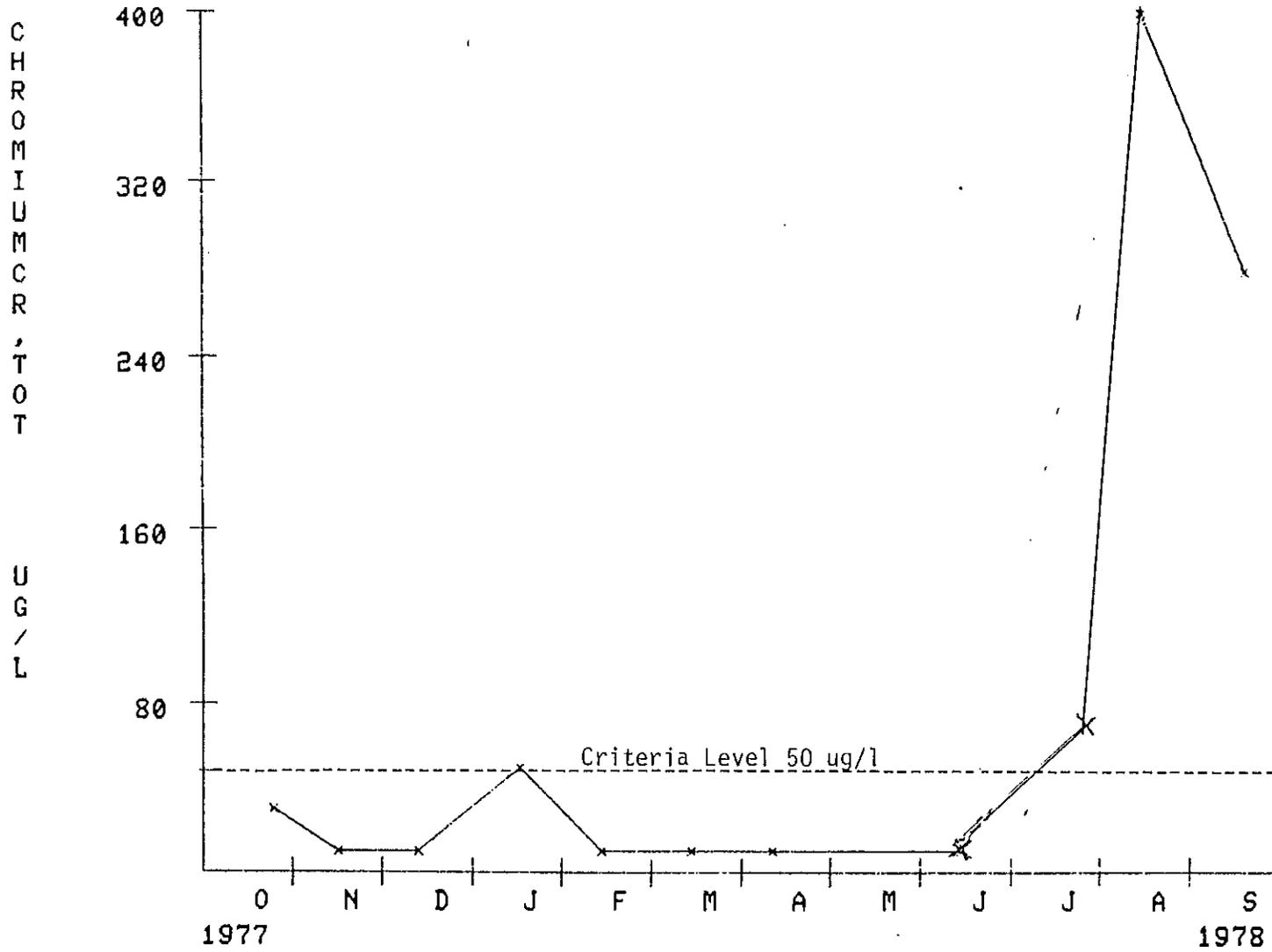
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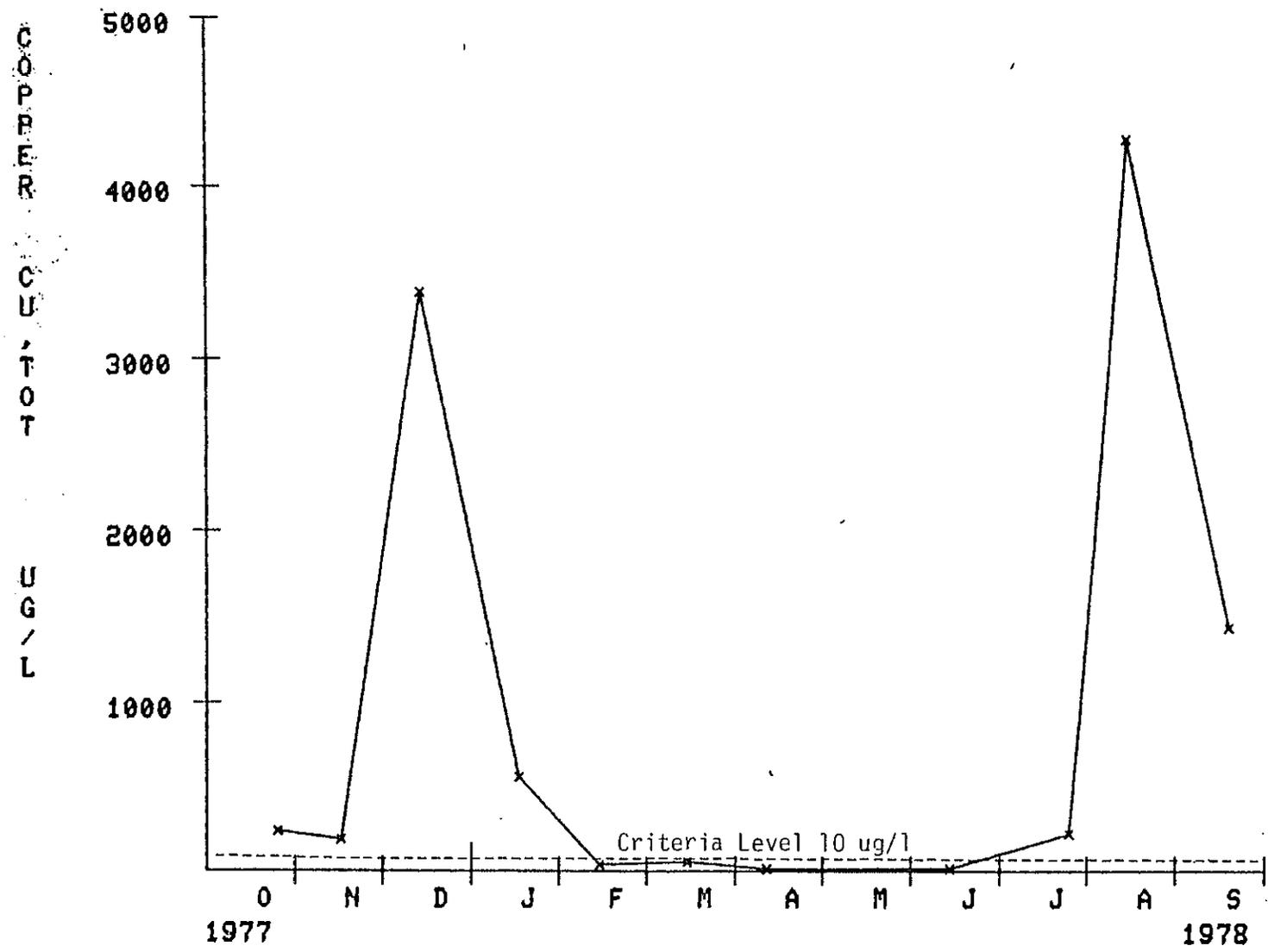
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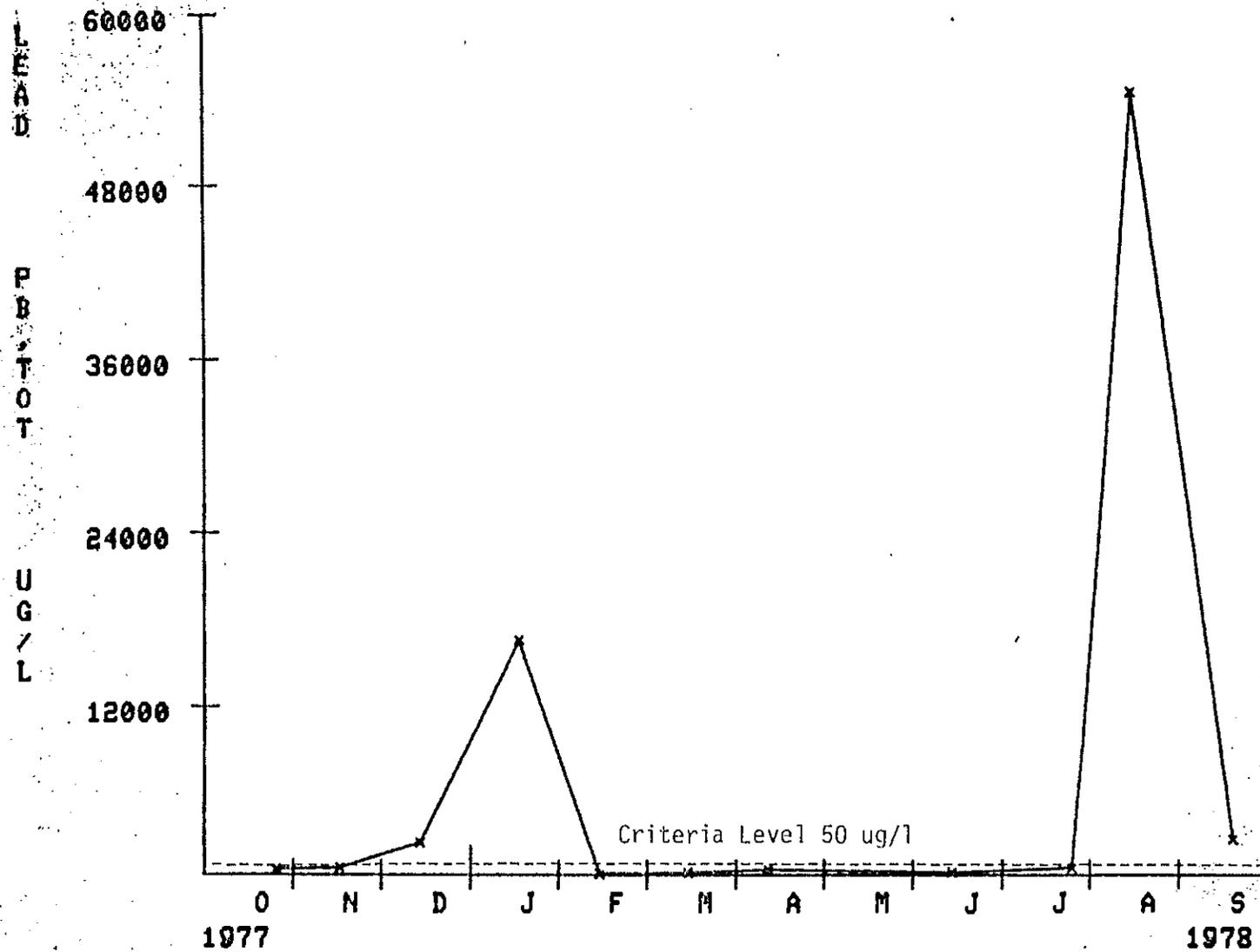
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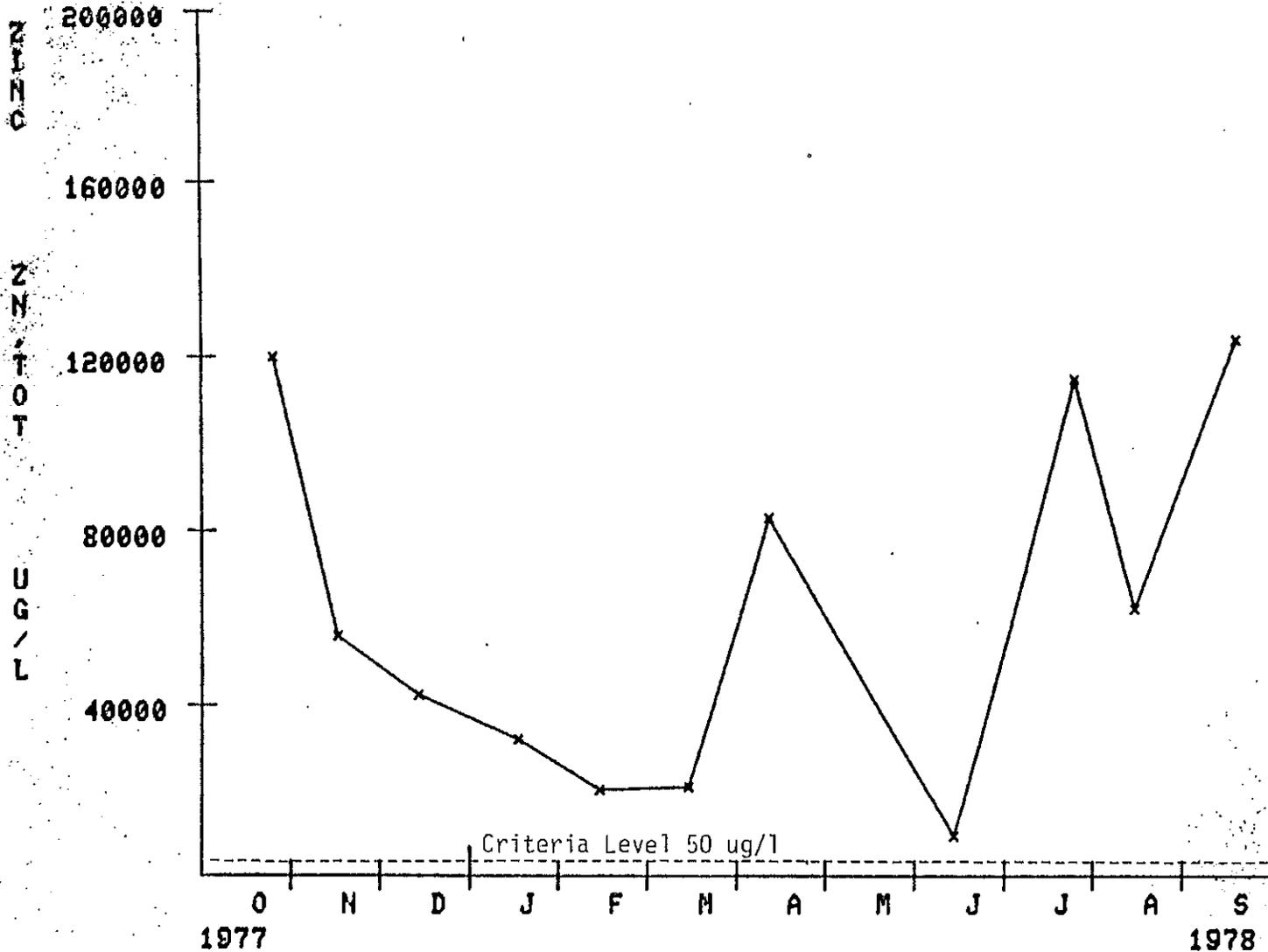
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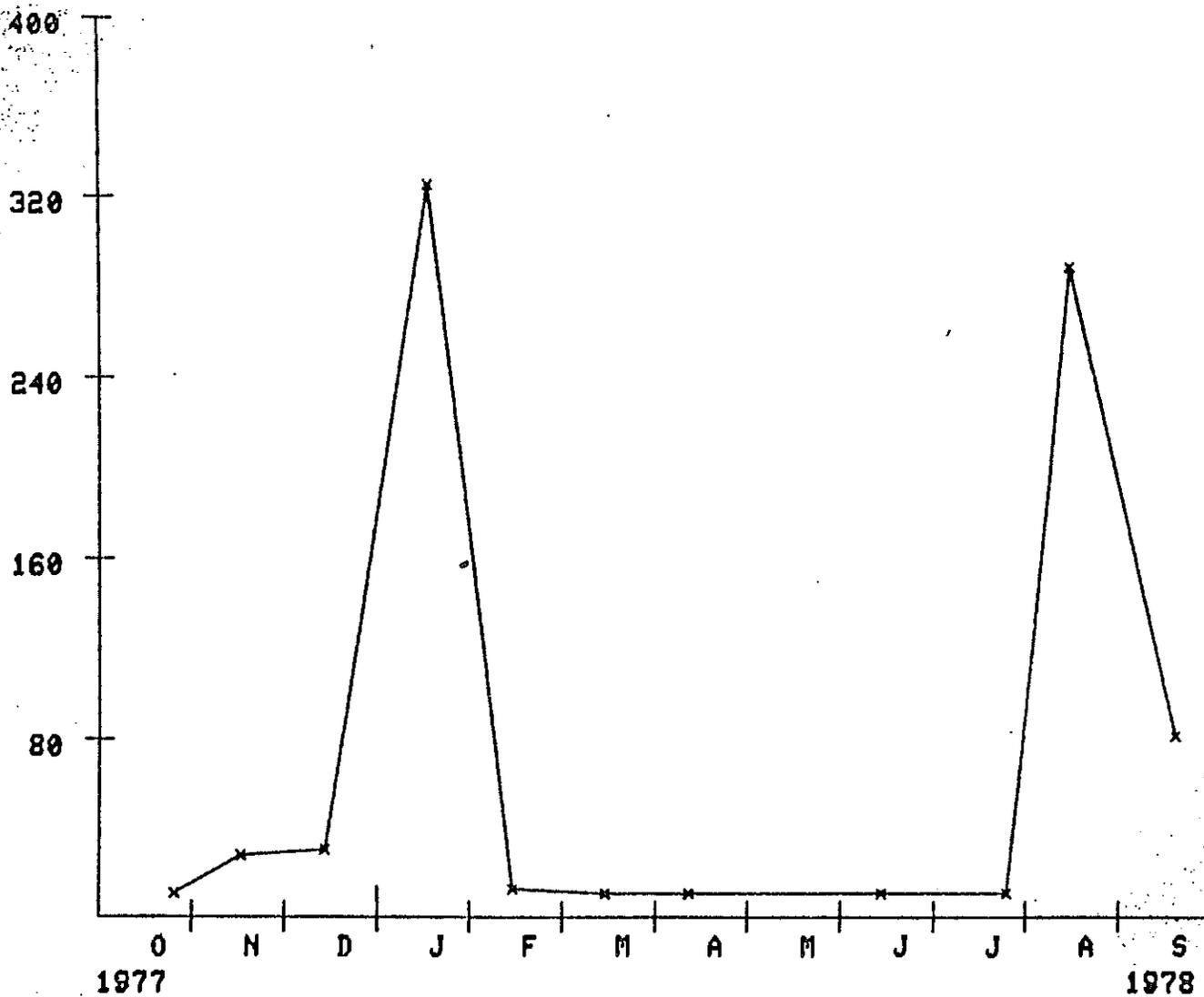
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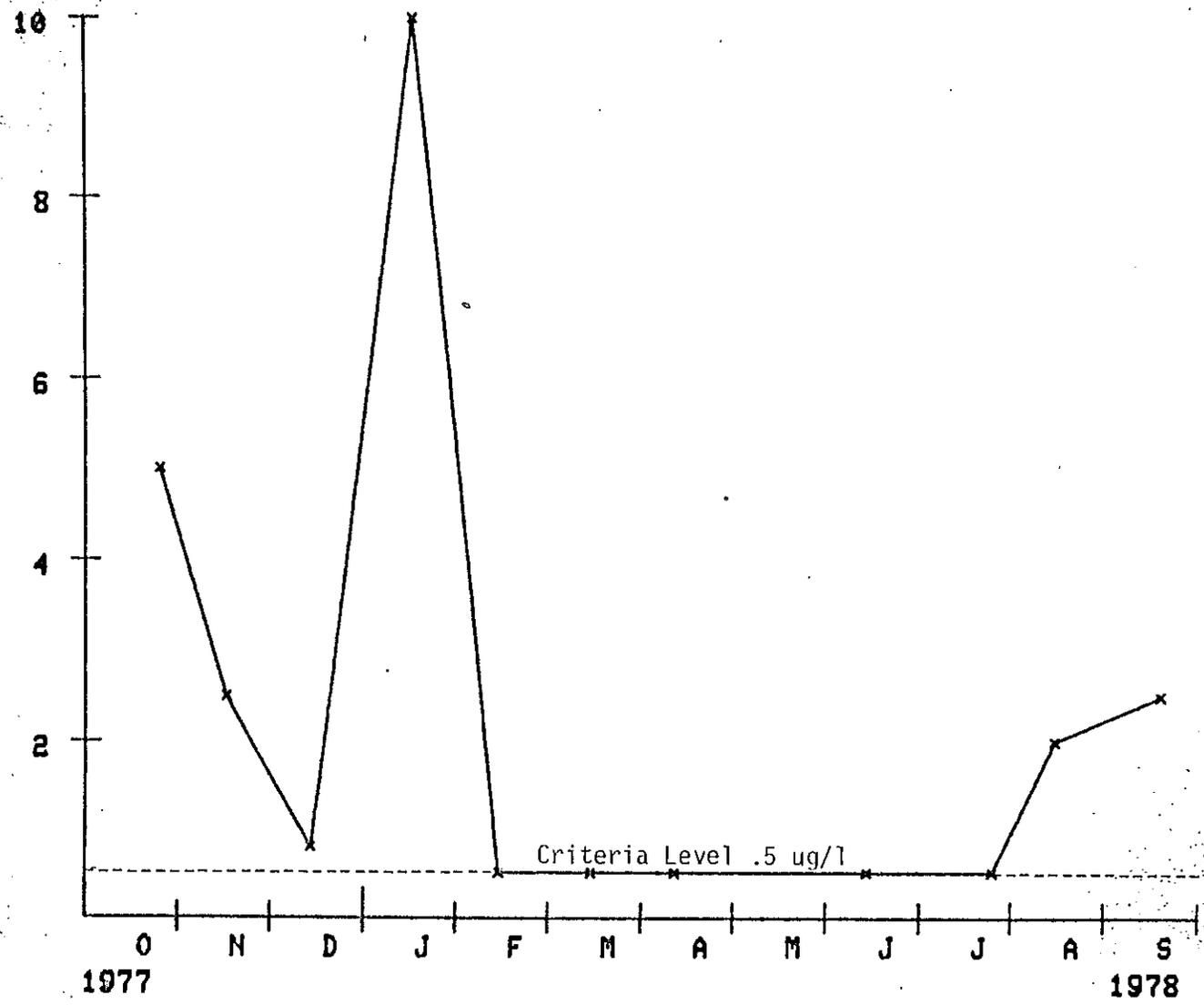
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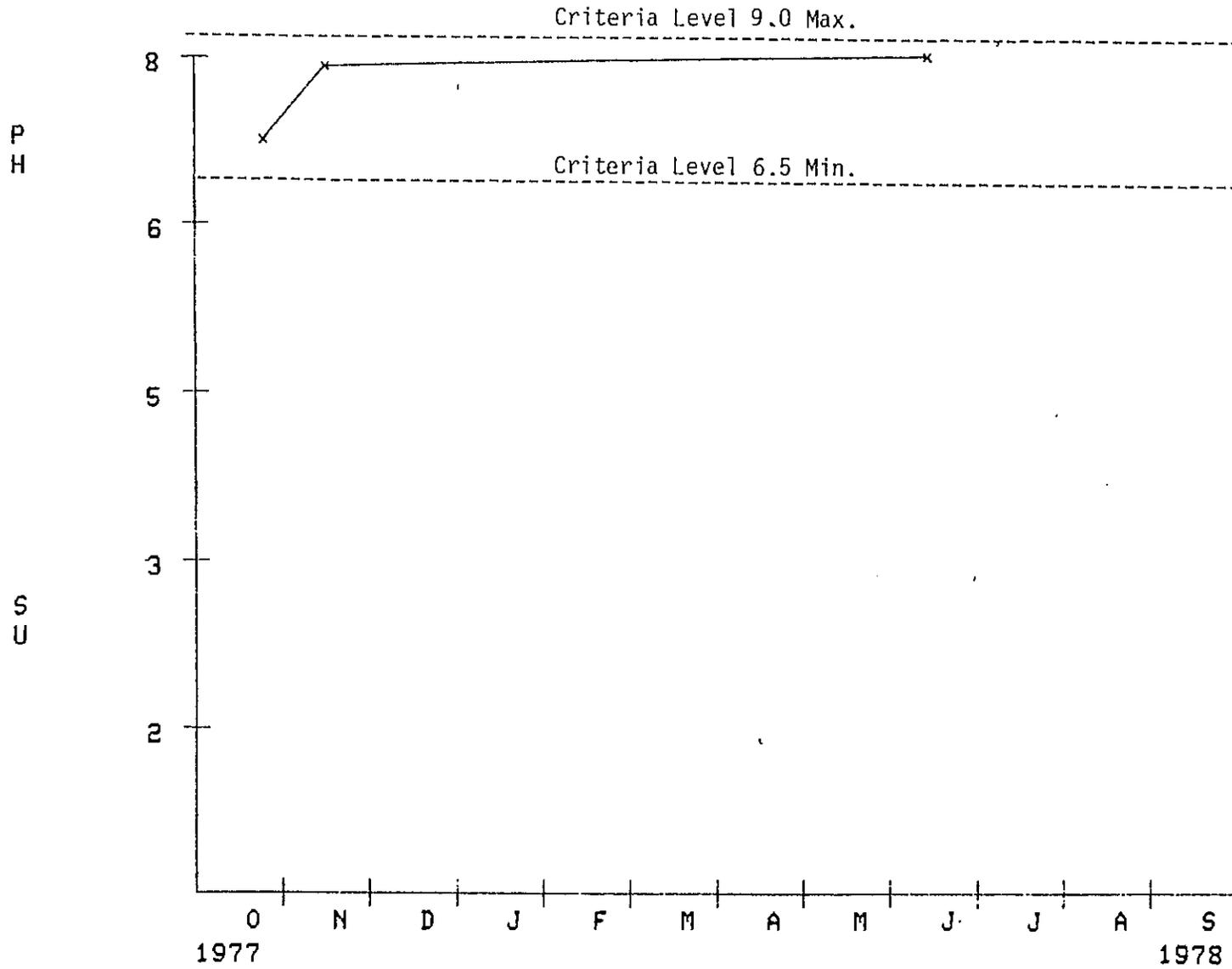


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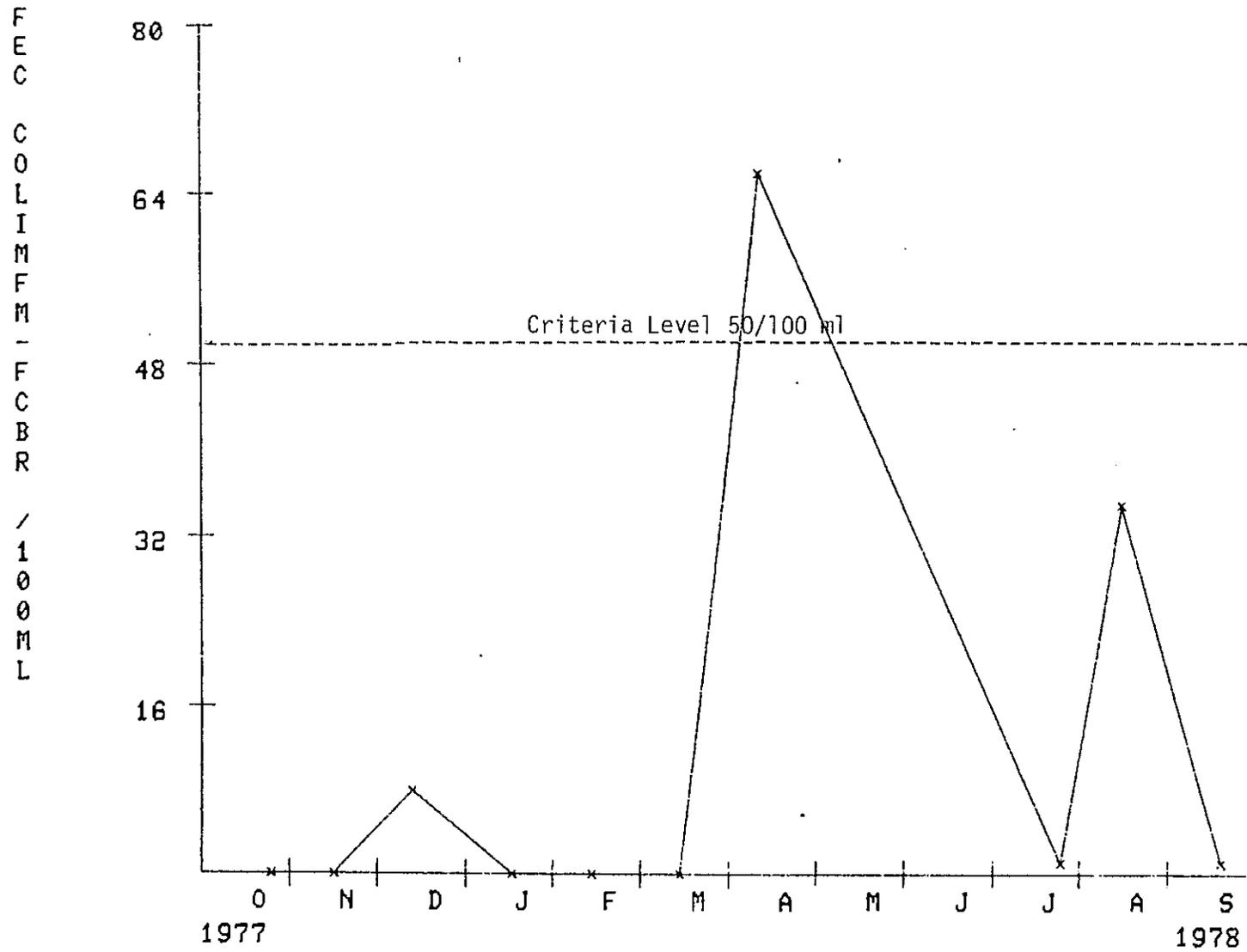
MEASUREMENTS
TOTAL
UG/L



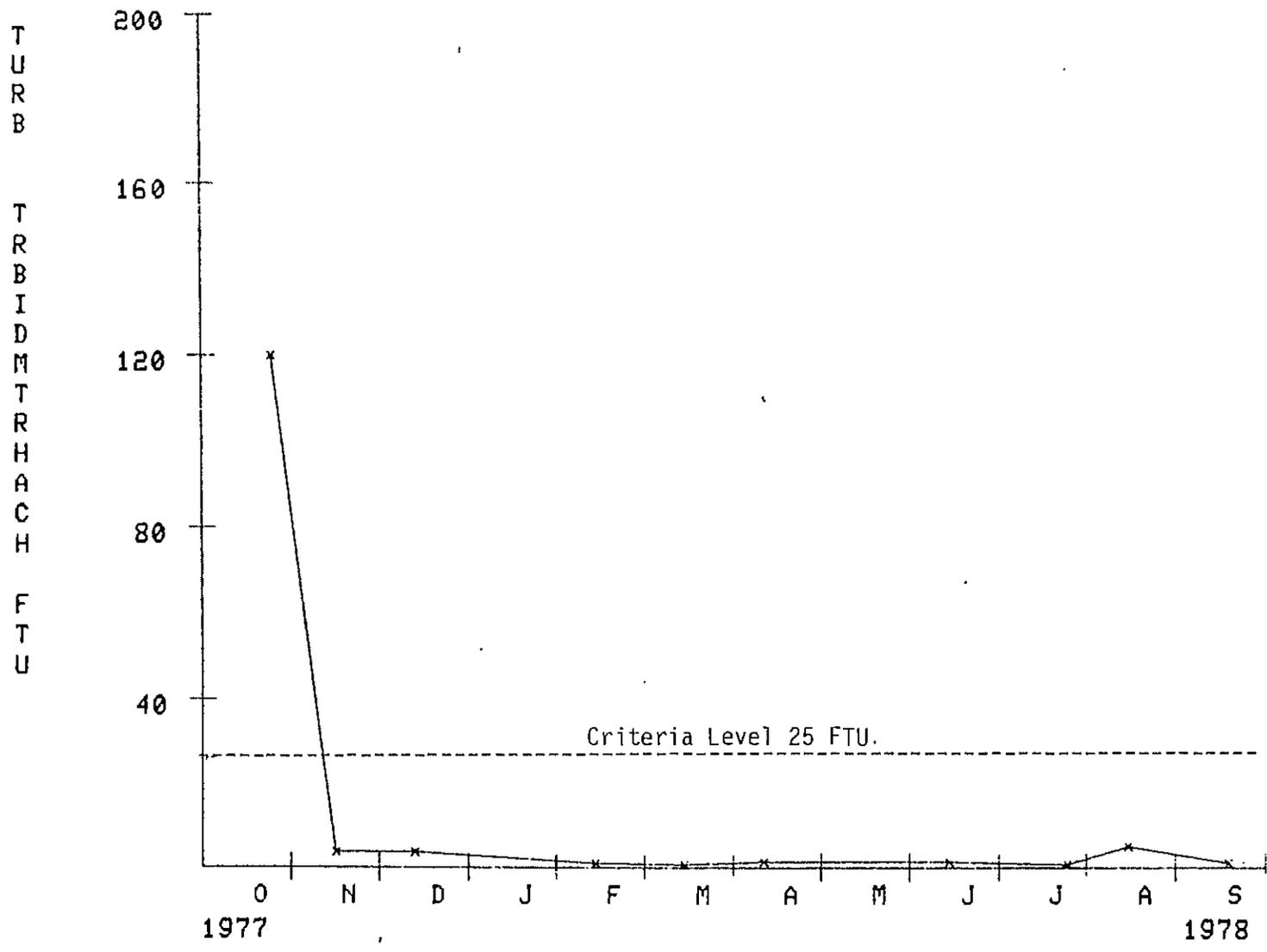
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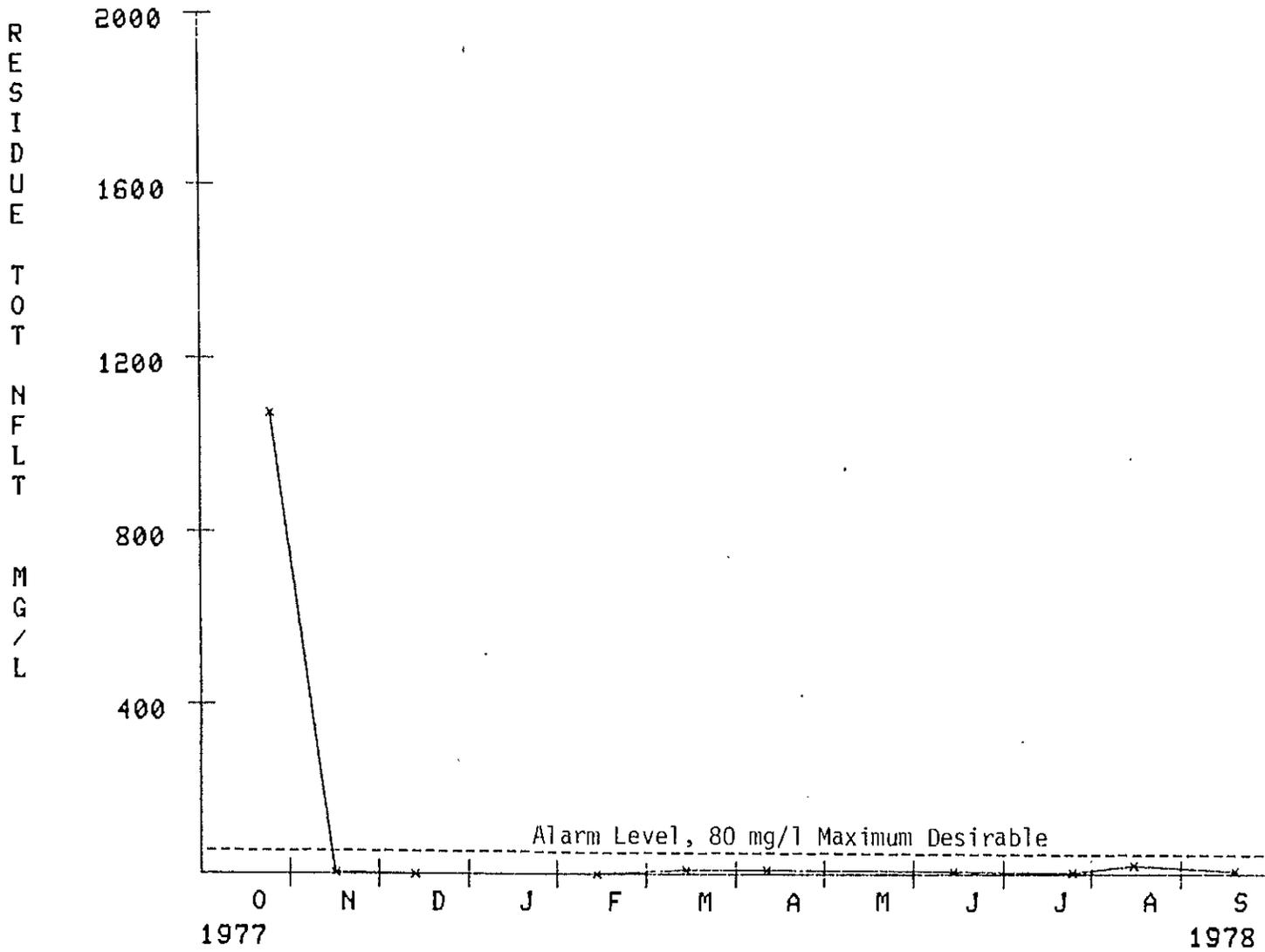
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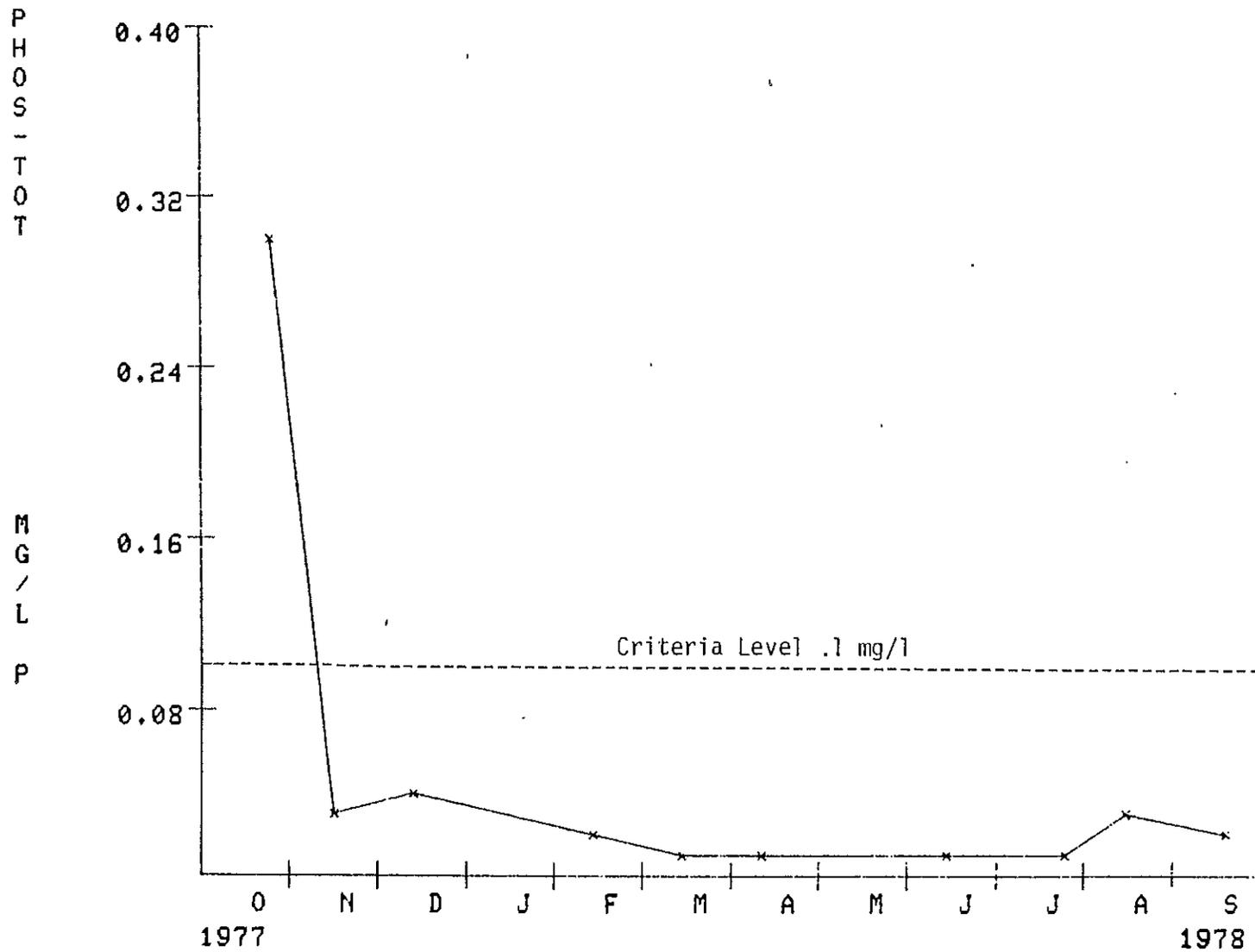
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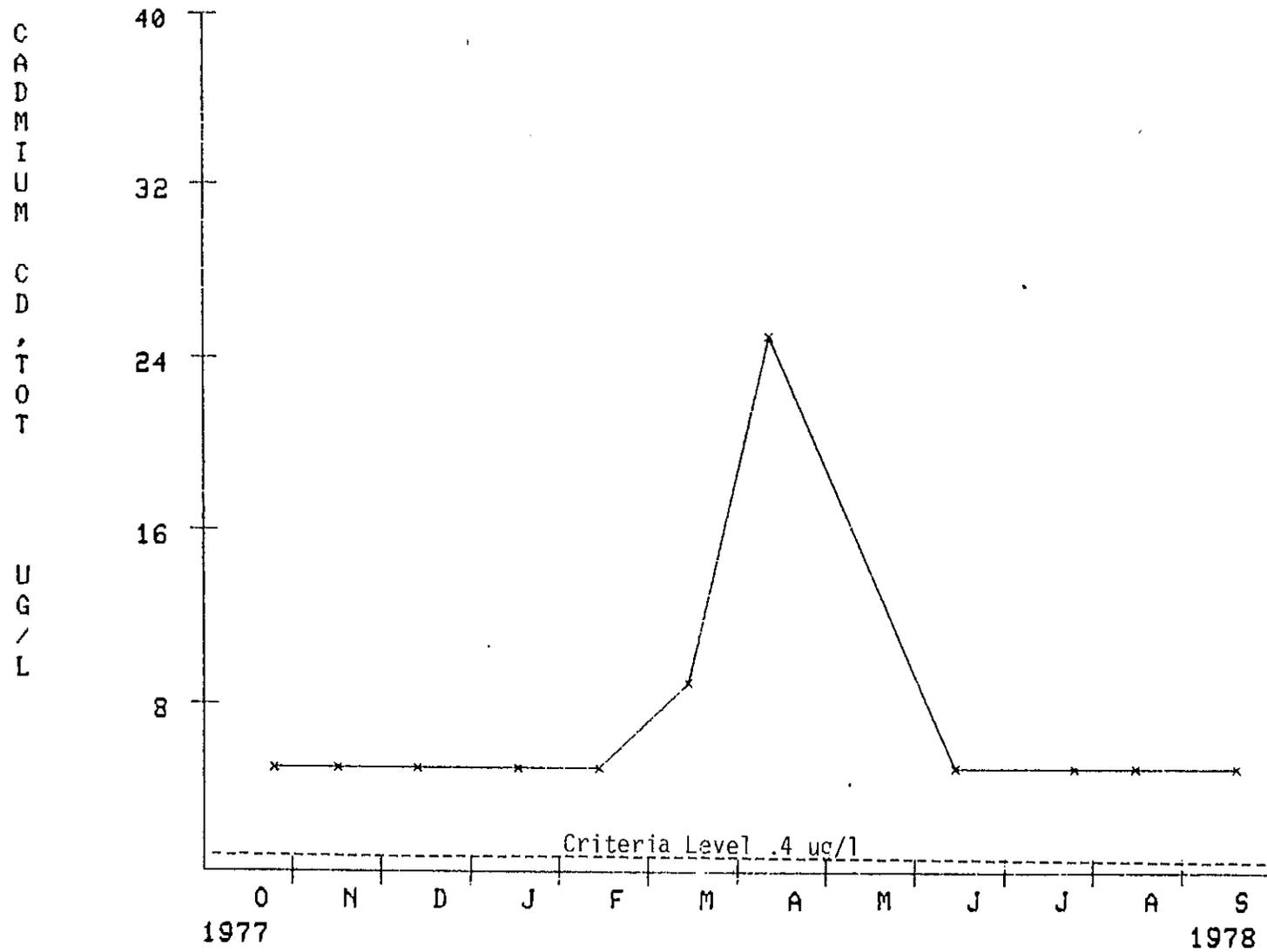
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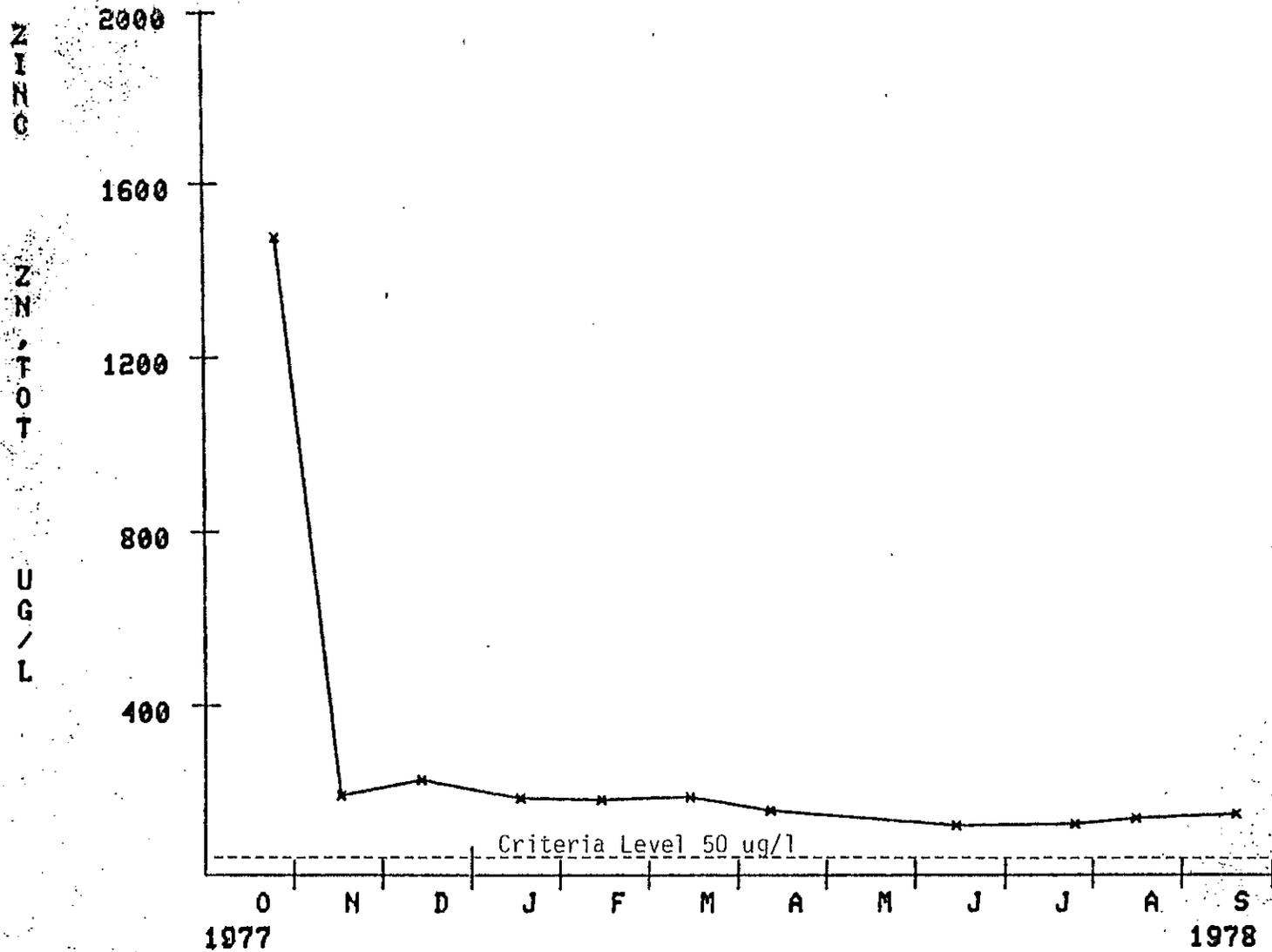
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PINE CK 1000FT AB MOUTH-RR CROSS



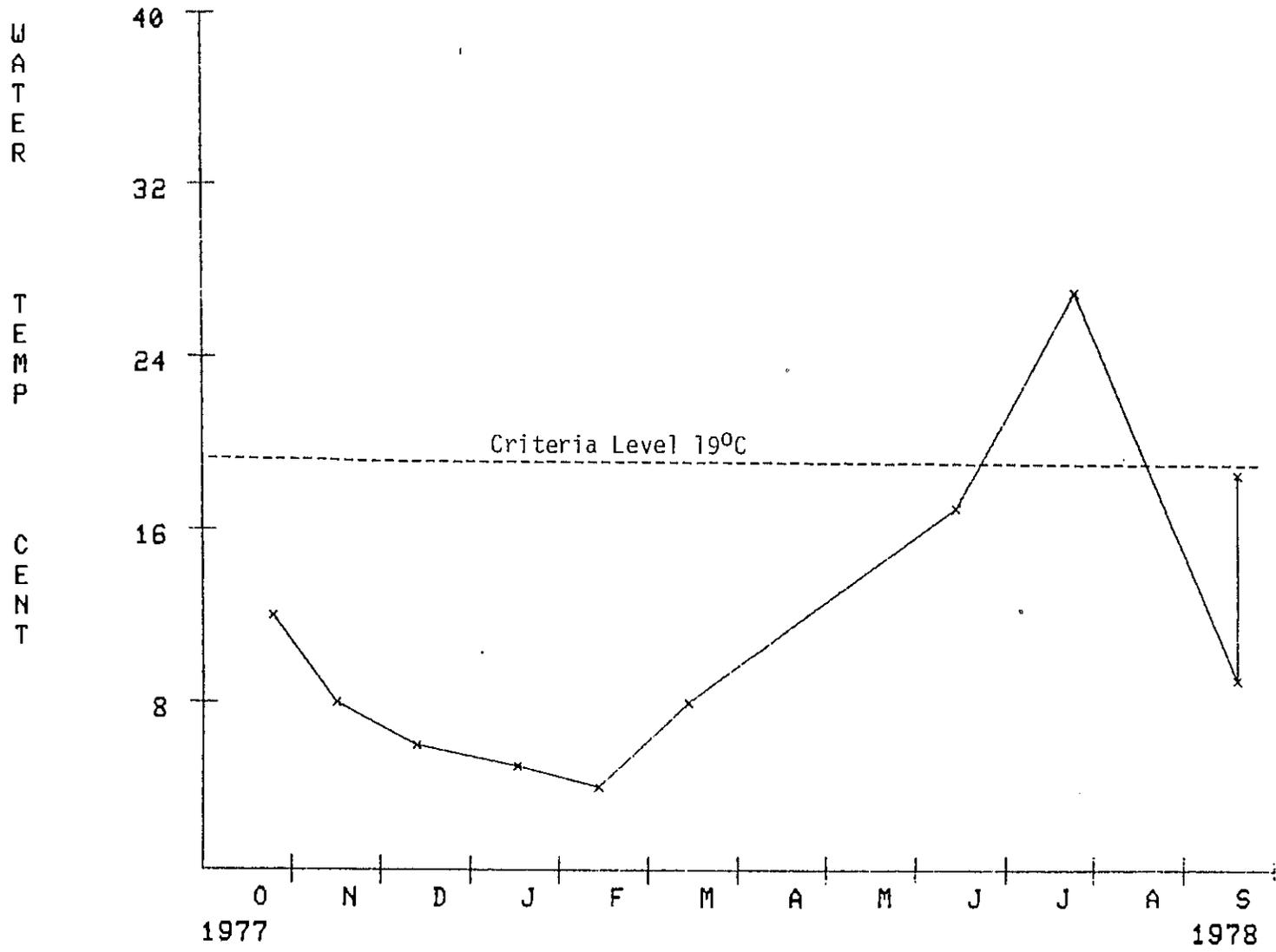
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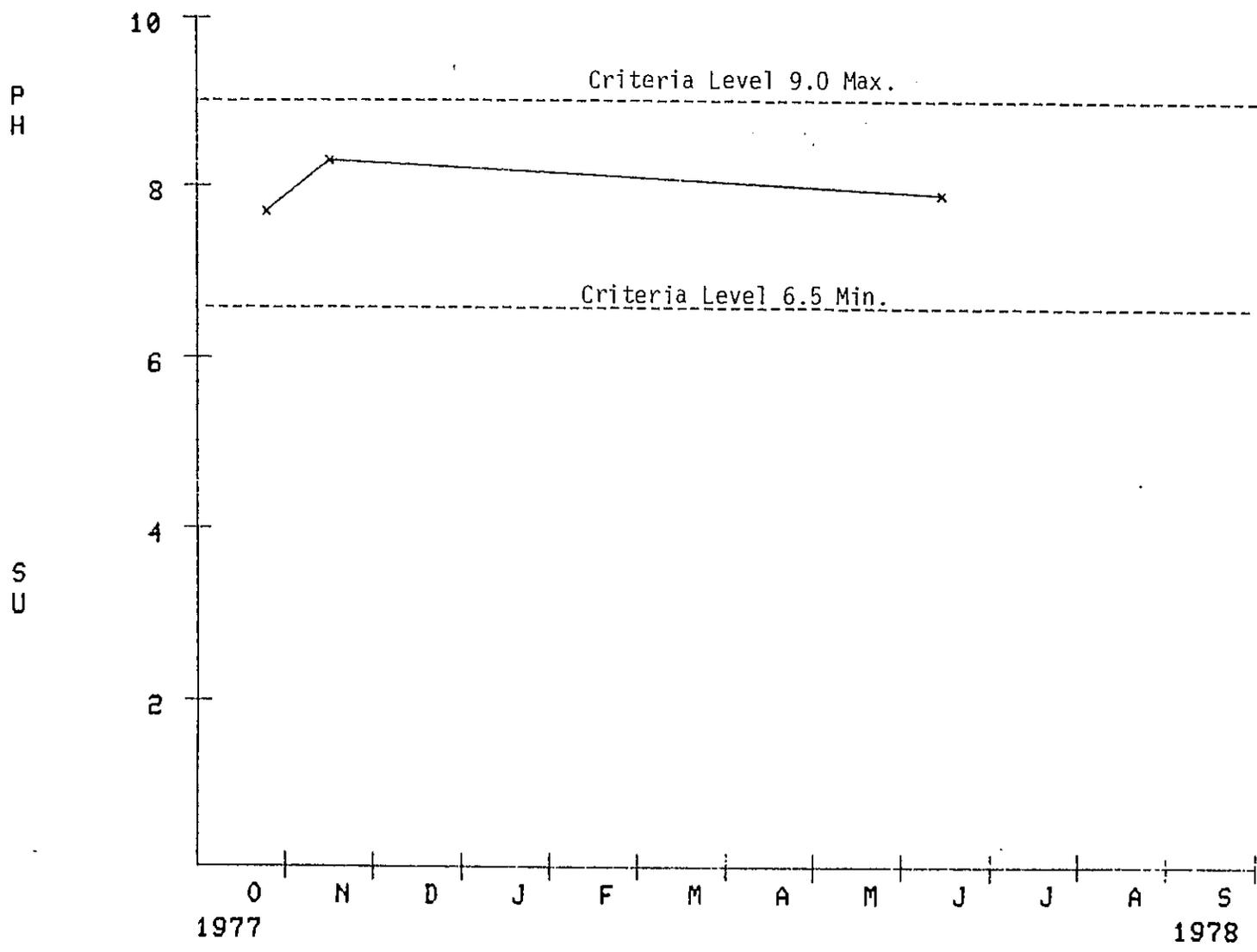
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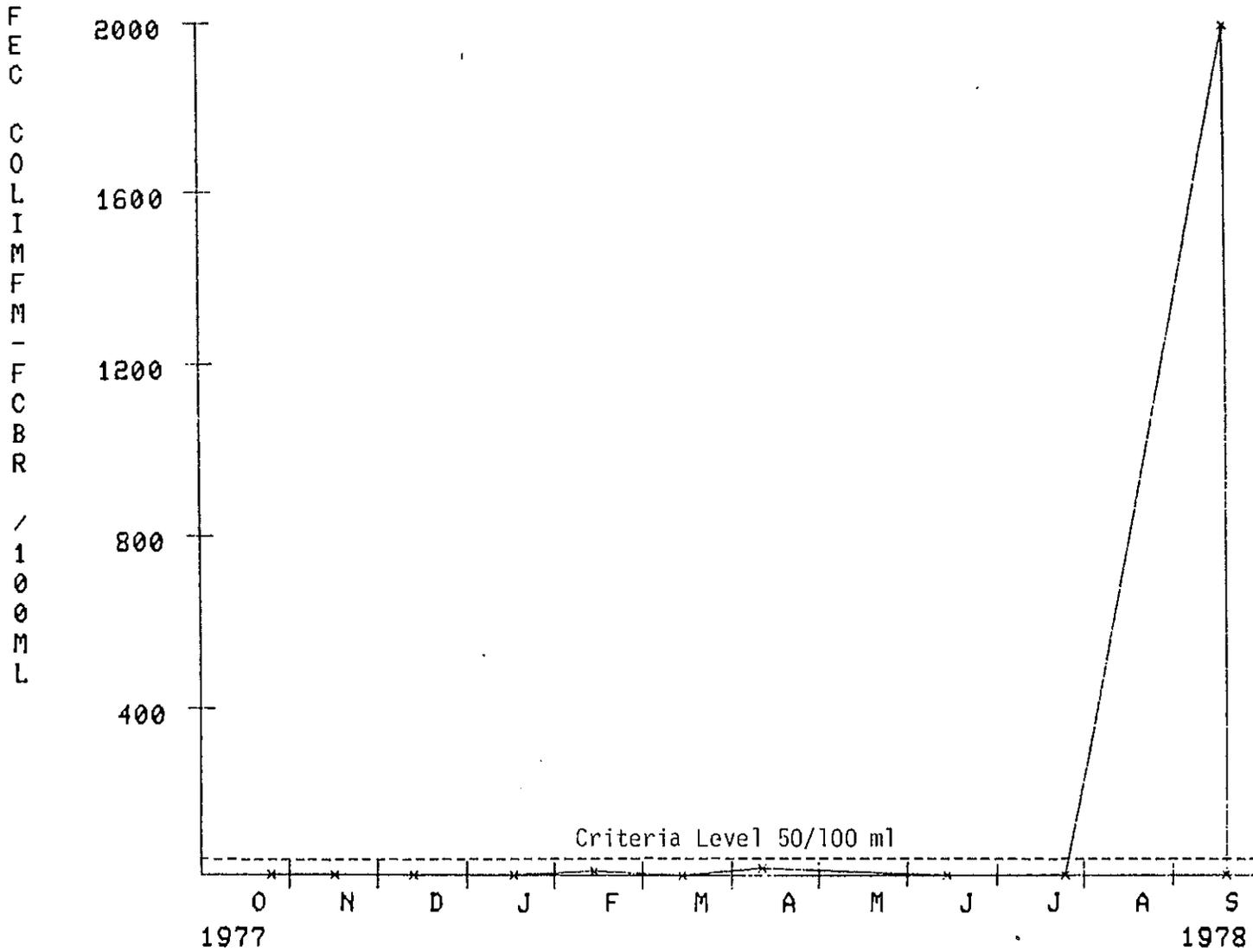
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BUNKER CK AT MOUTH AT FLUME



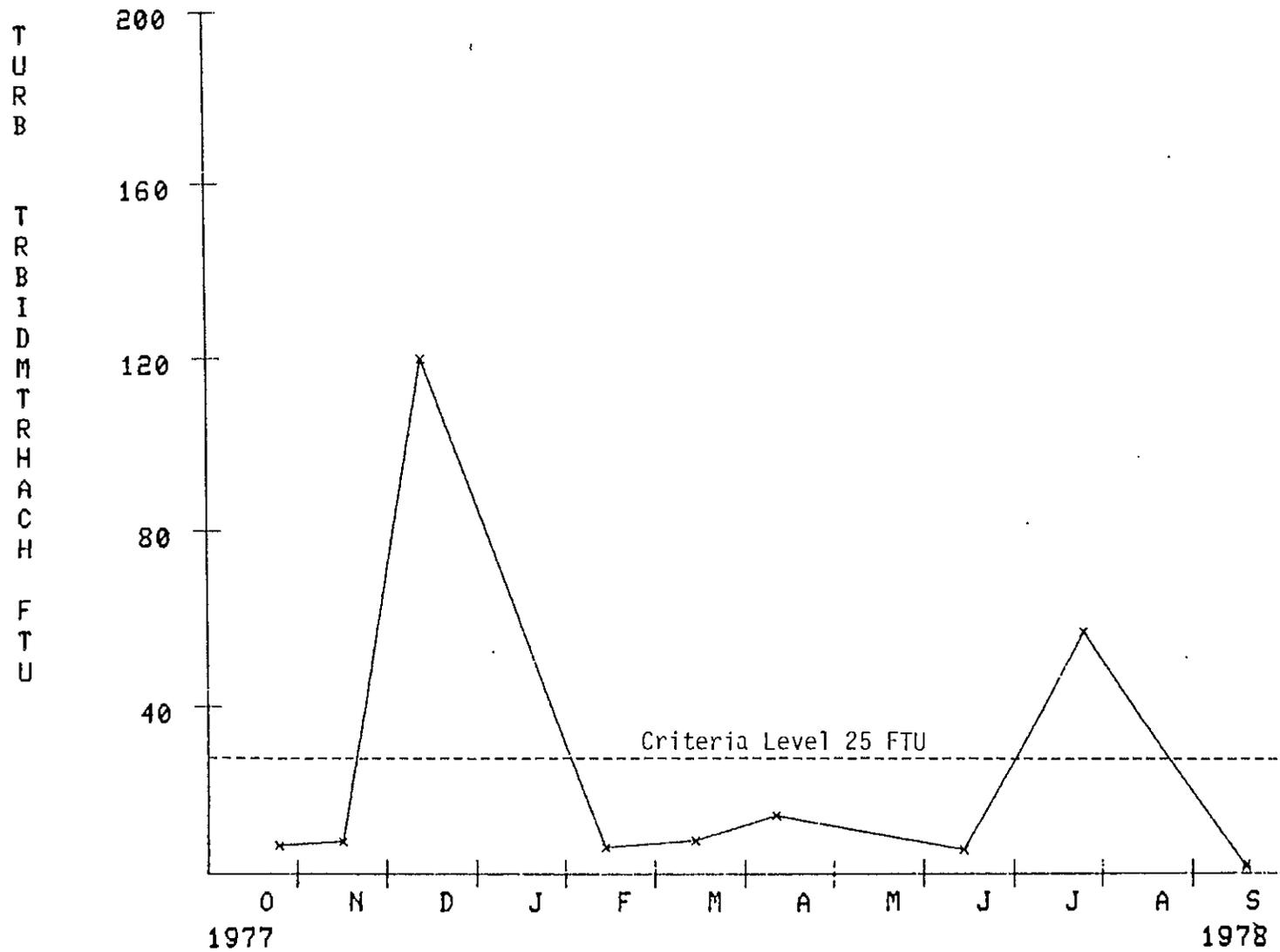
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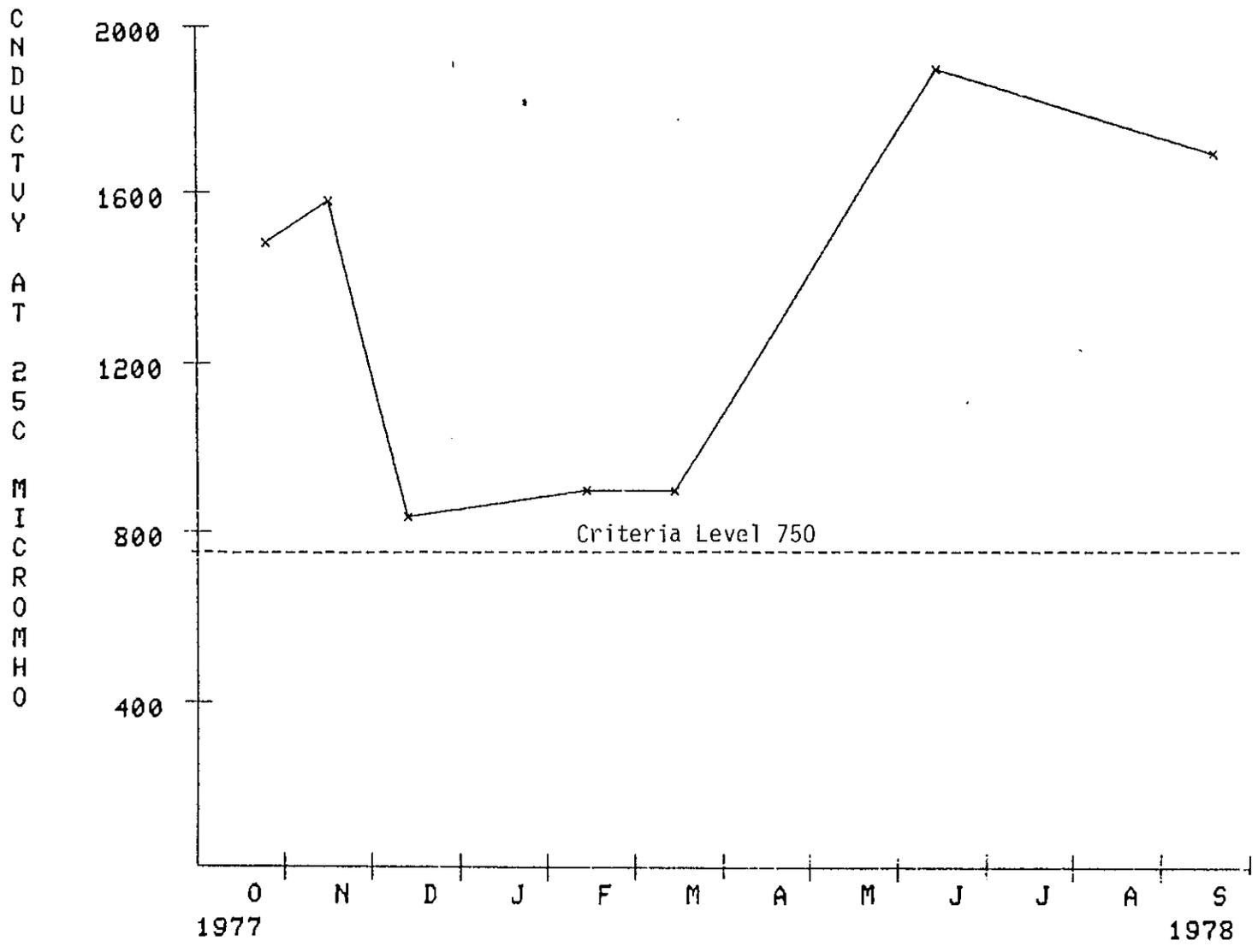
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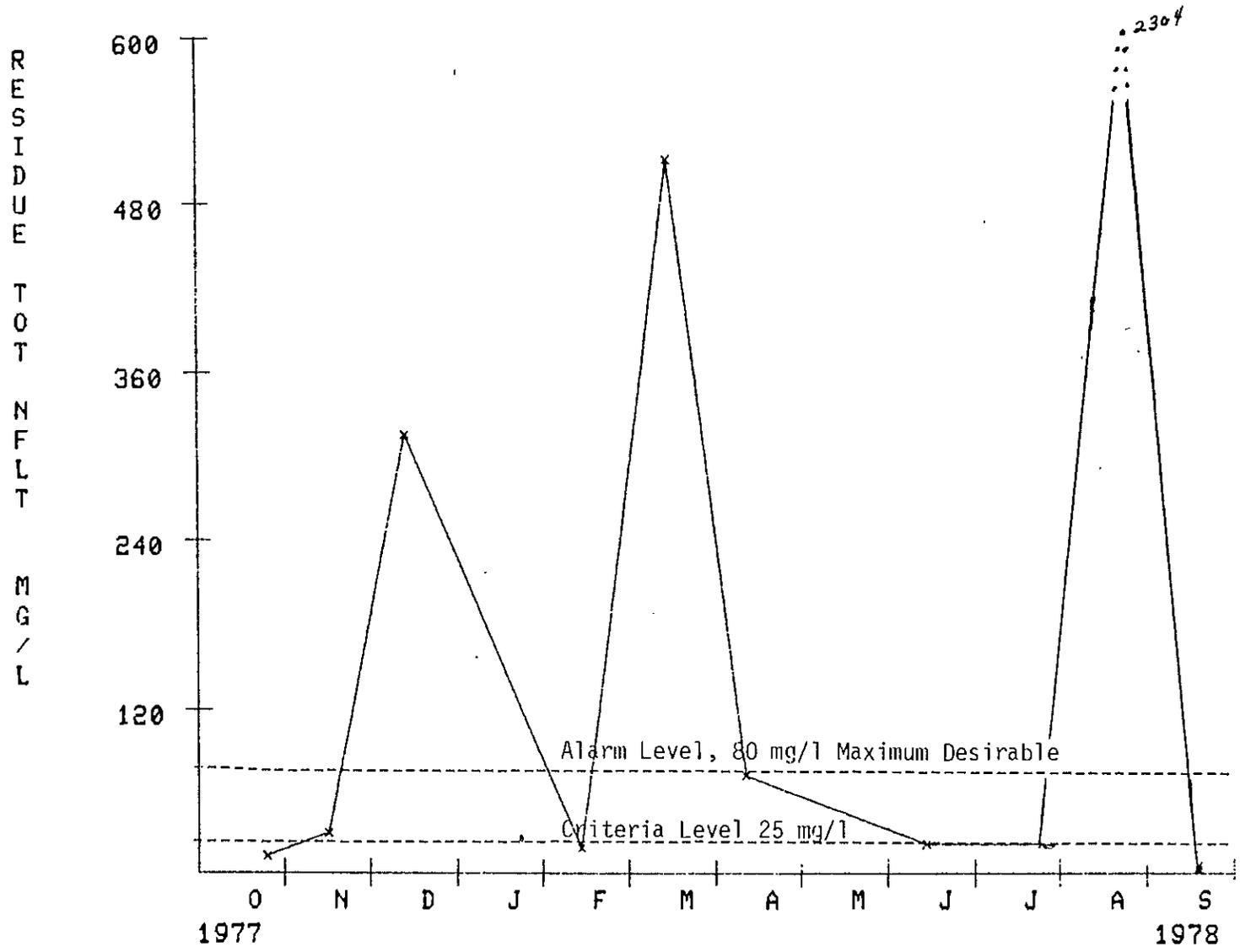
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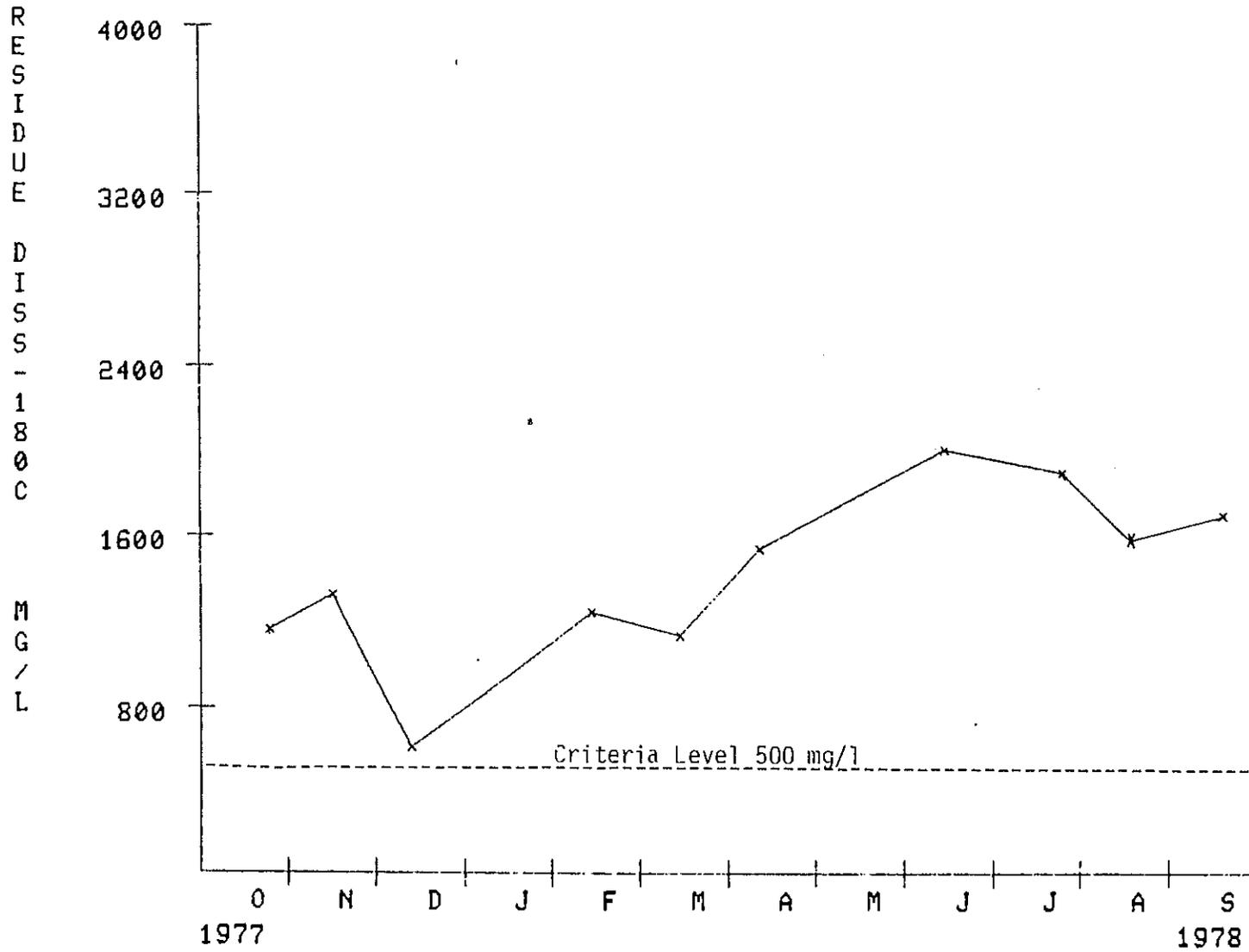
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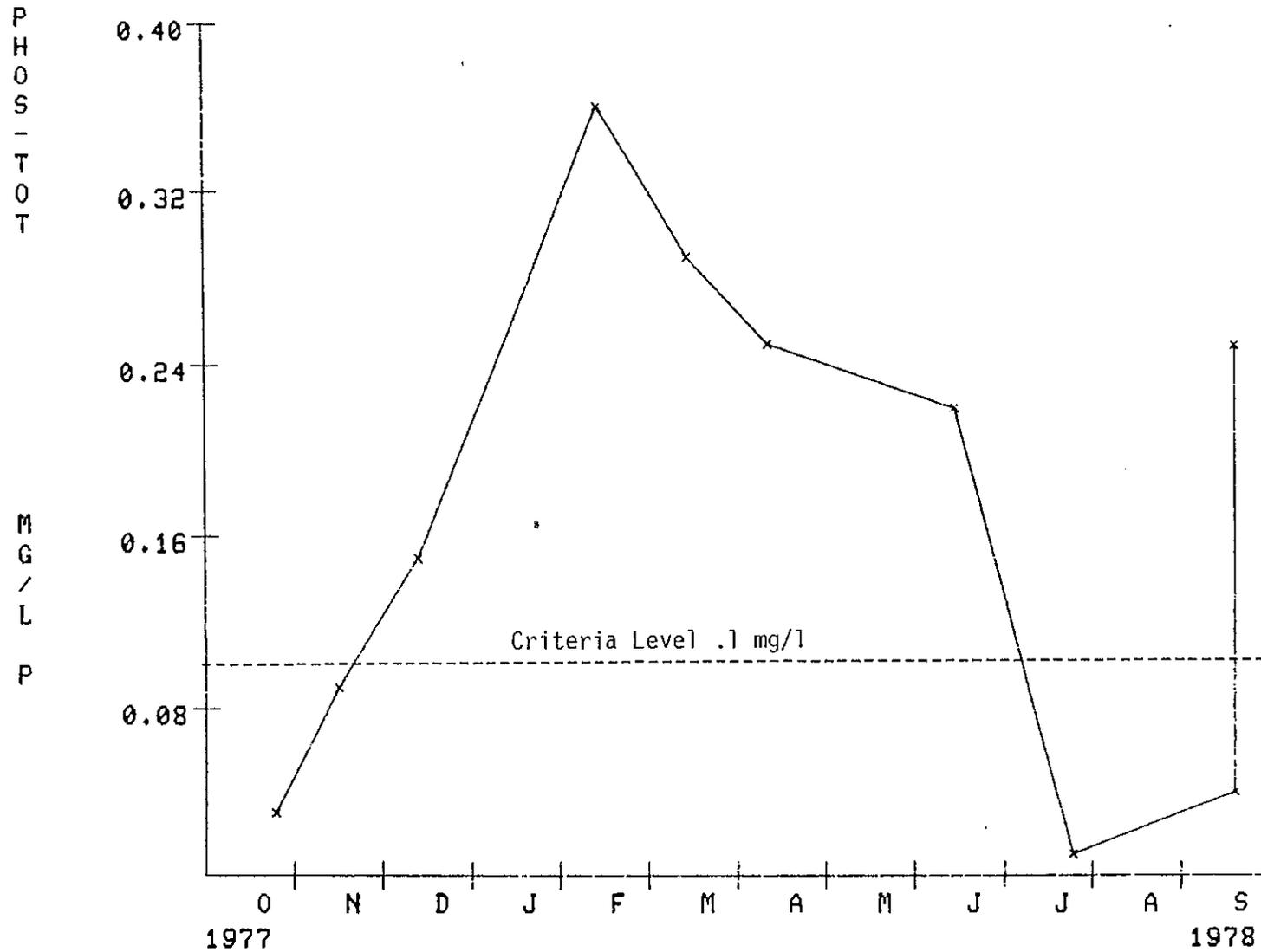
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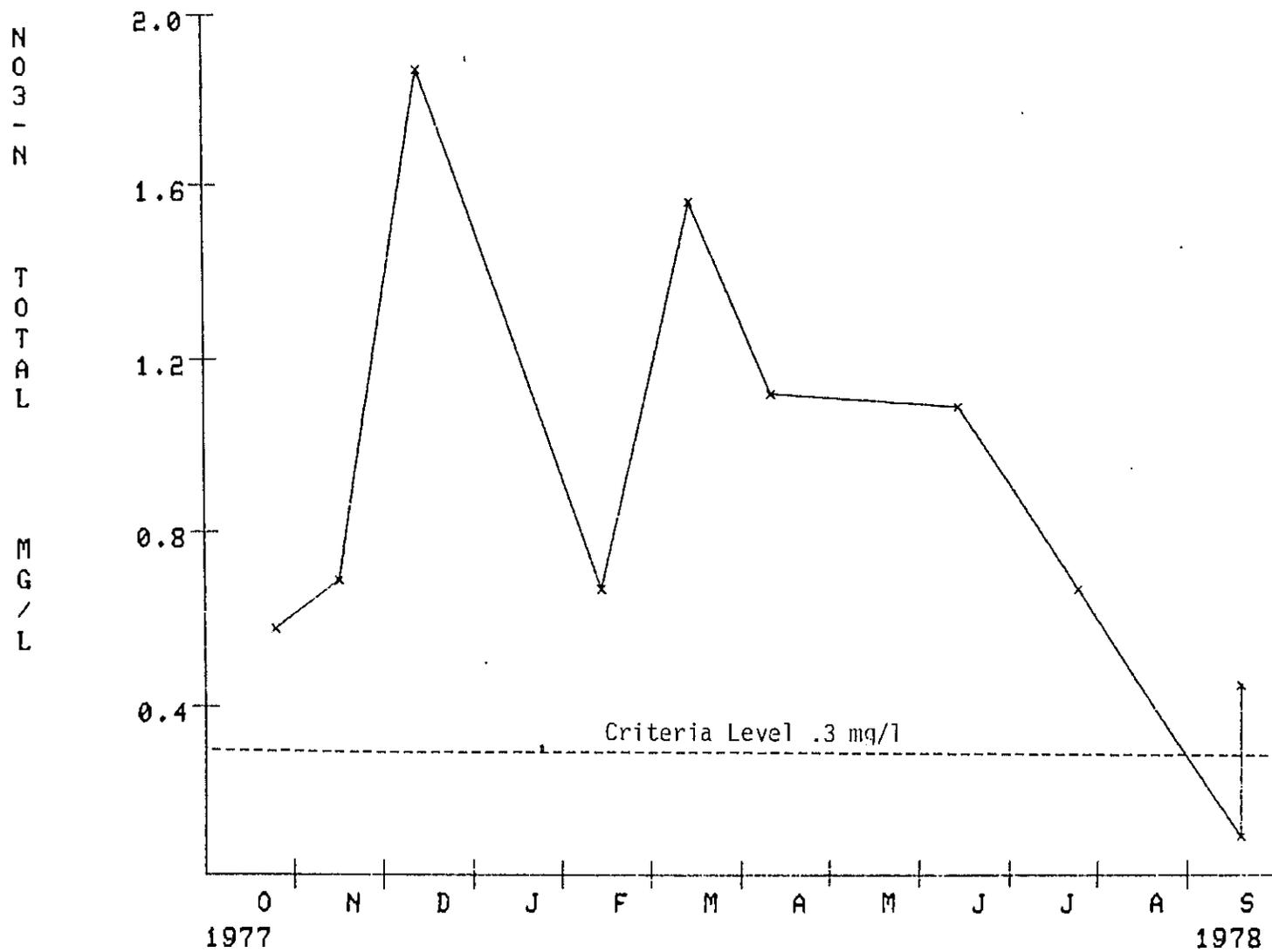
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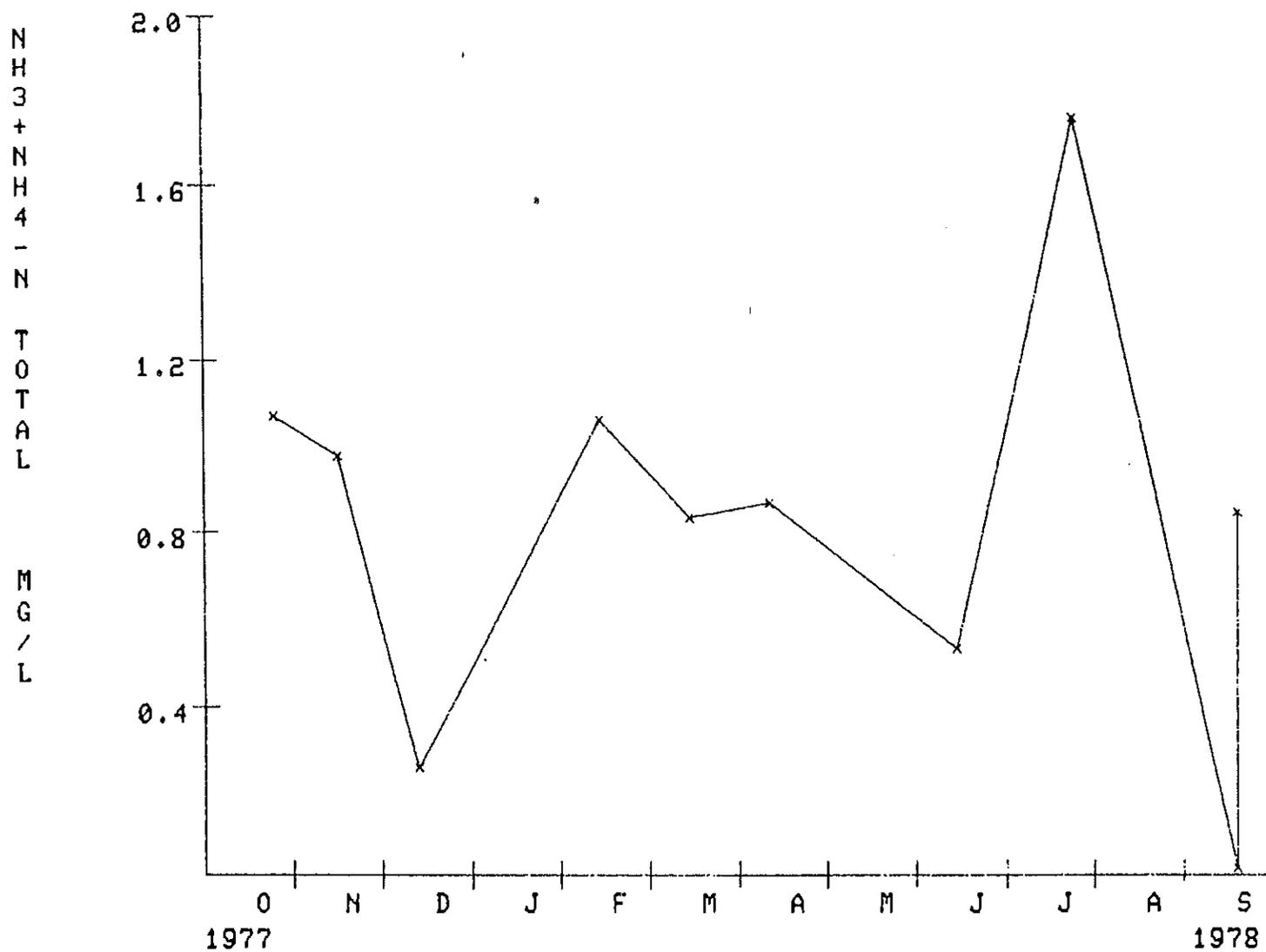
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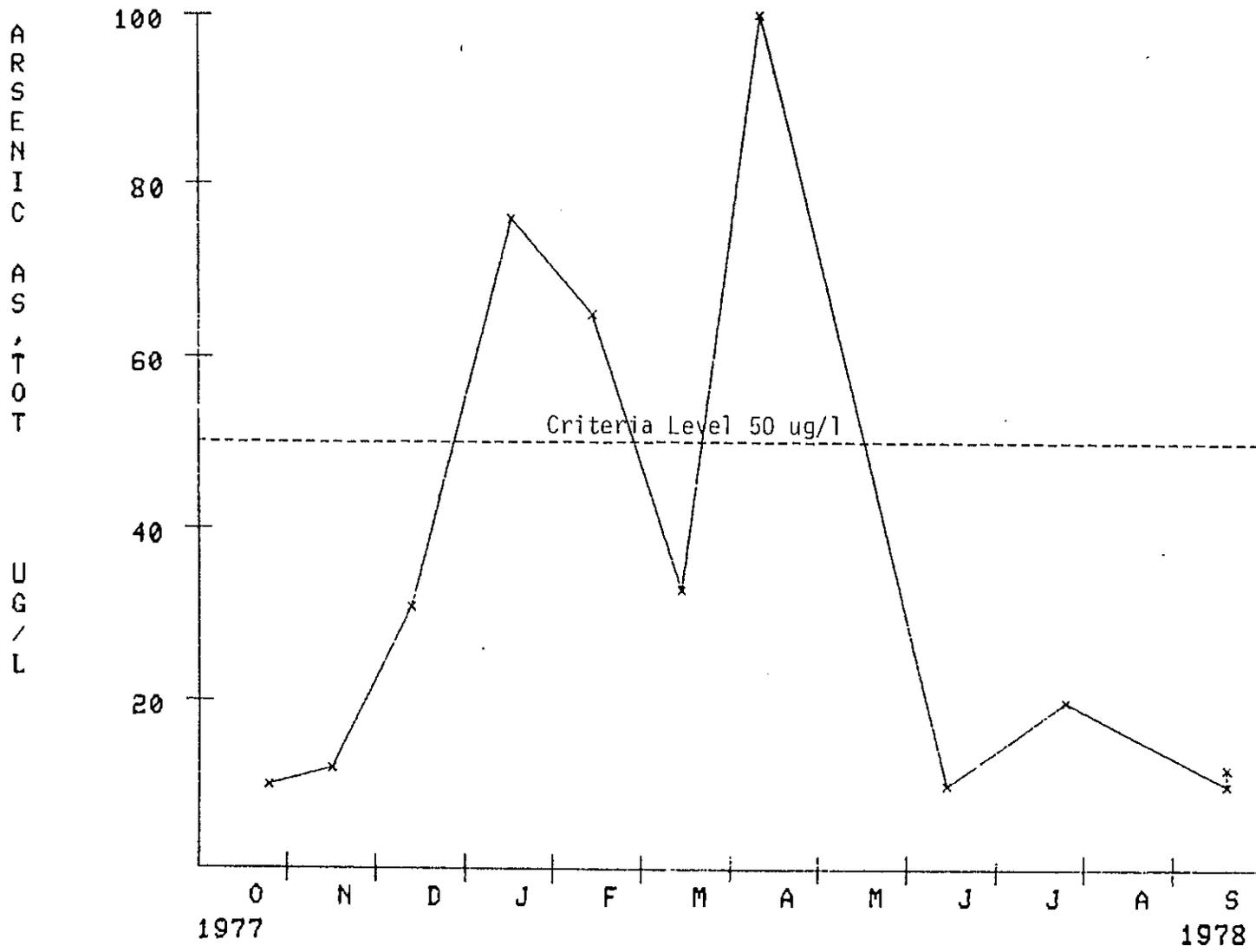
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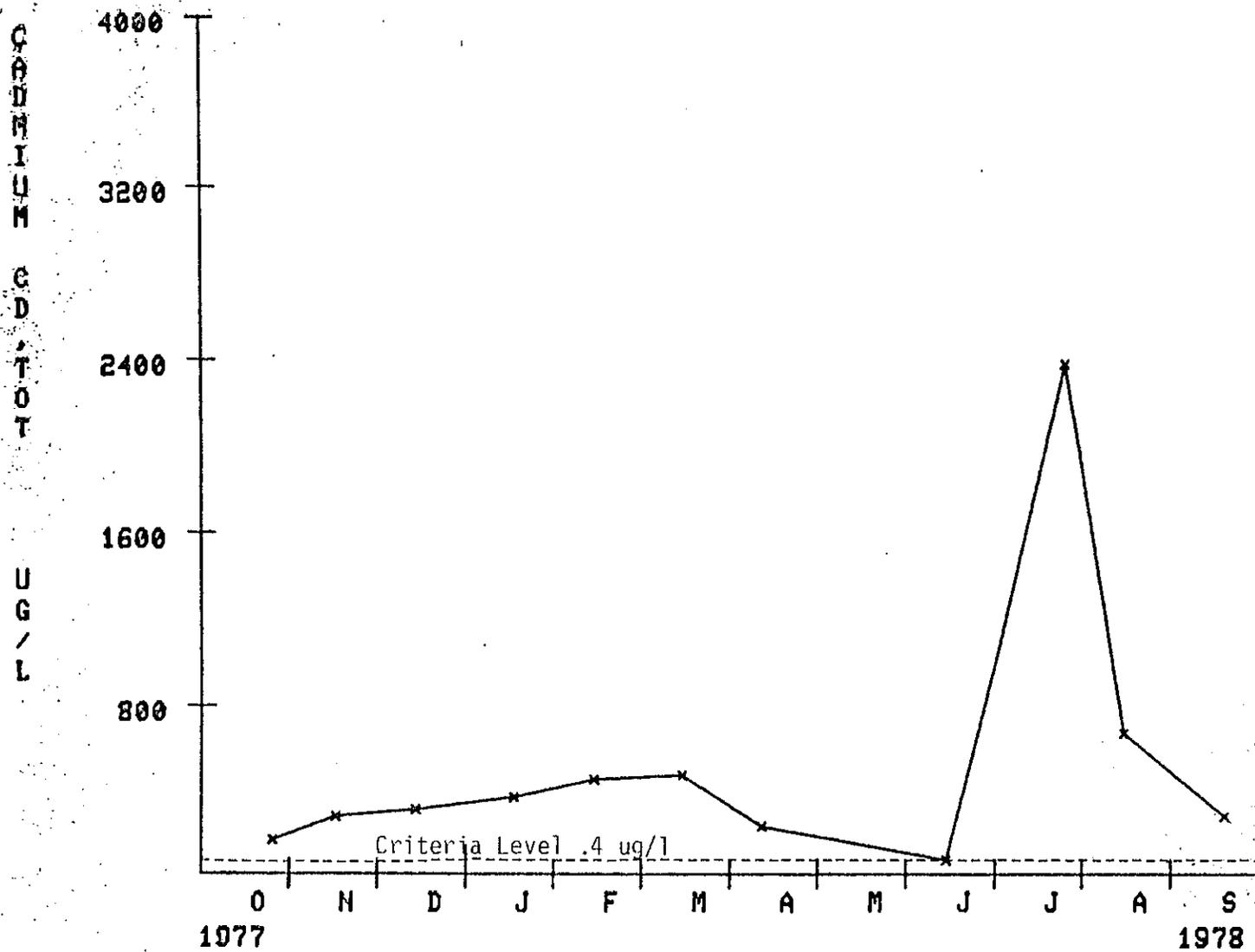
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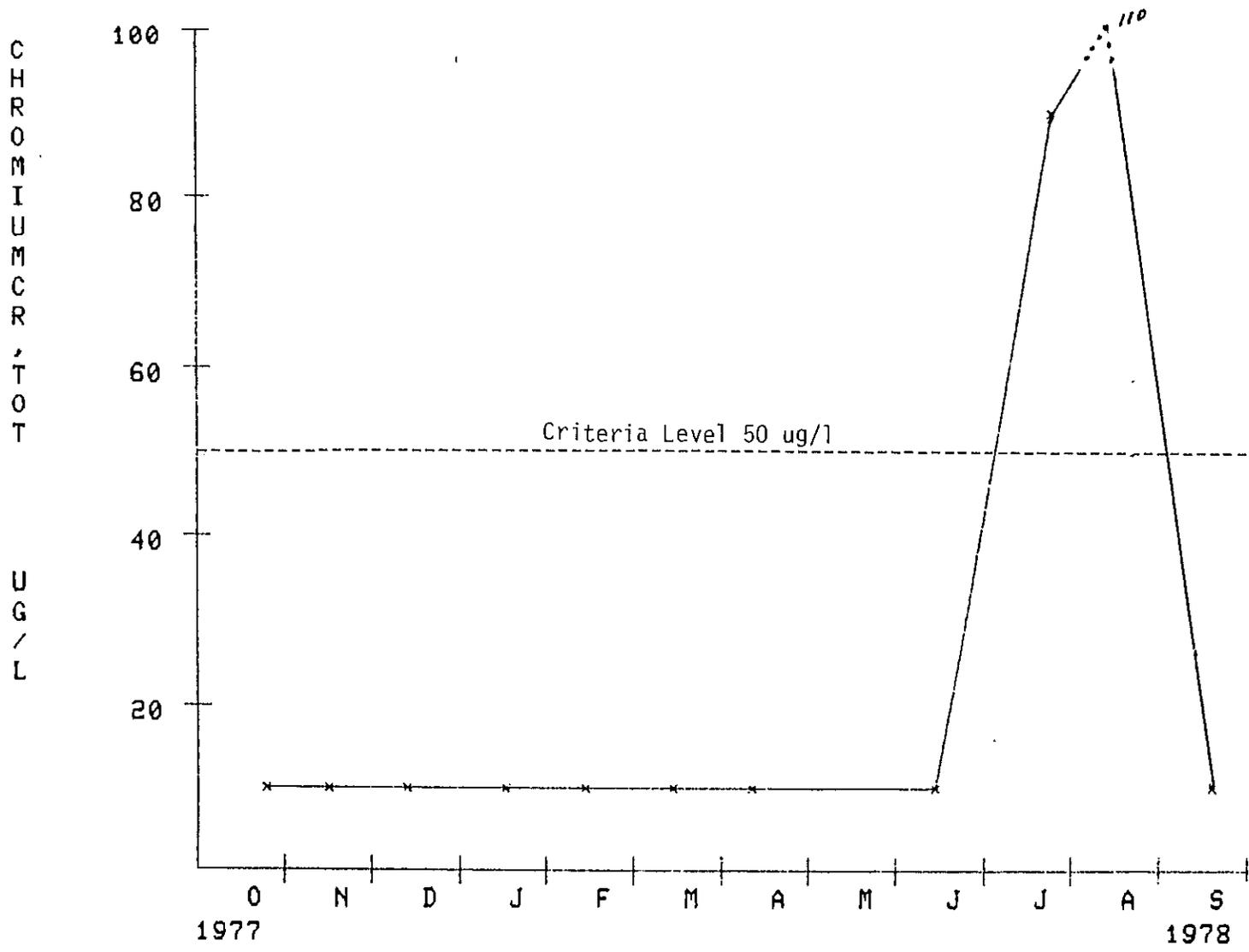
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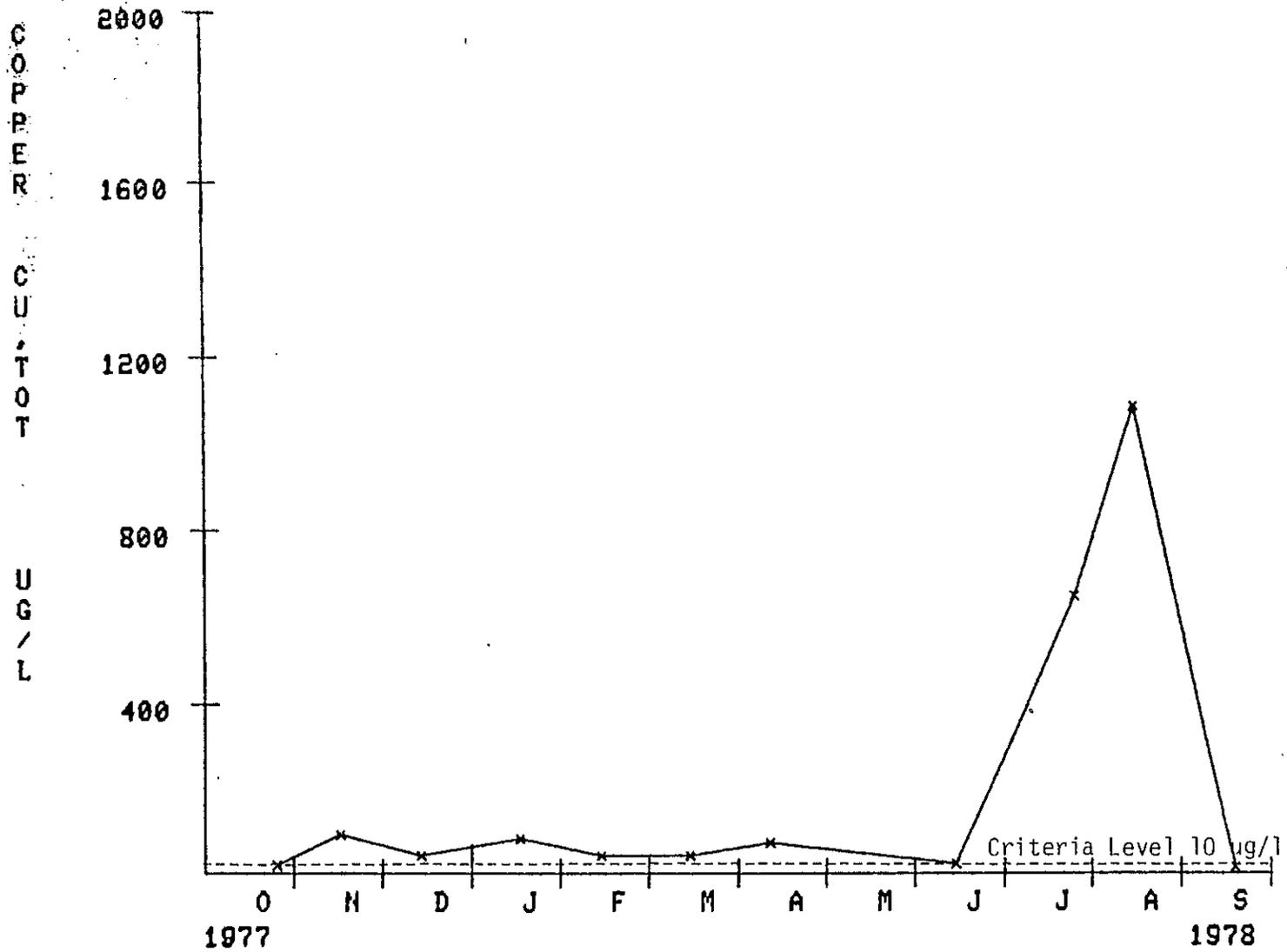
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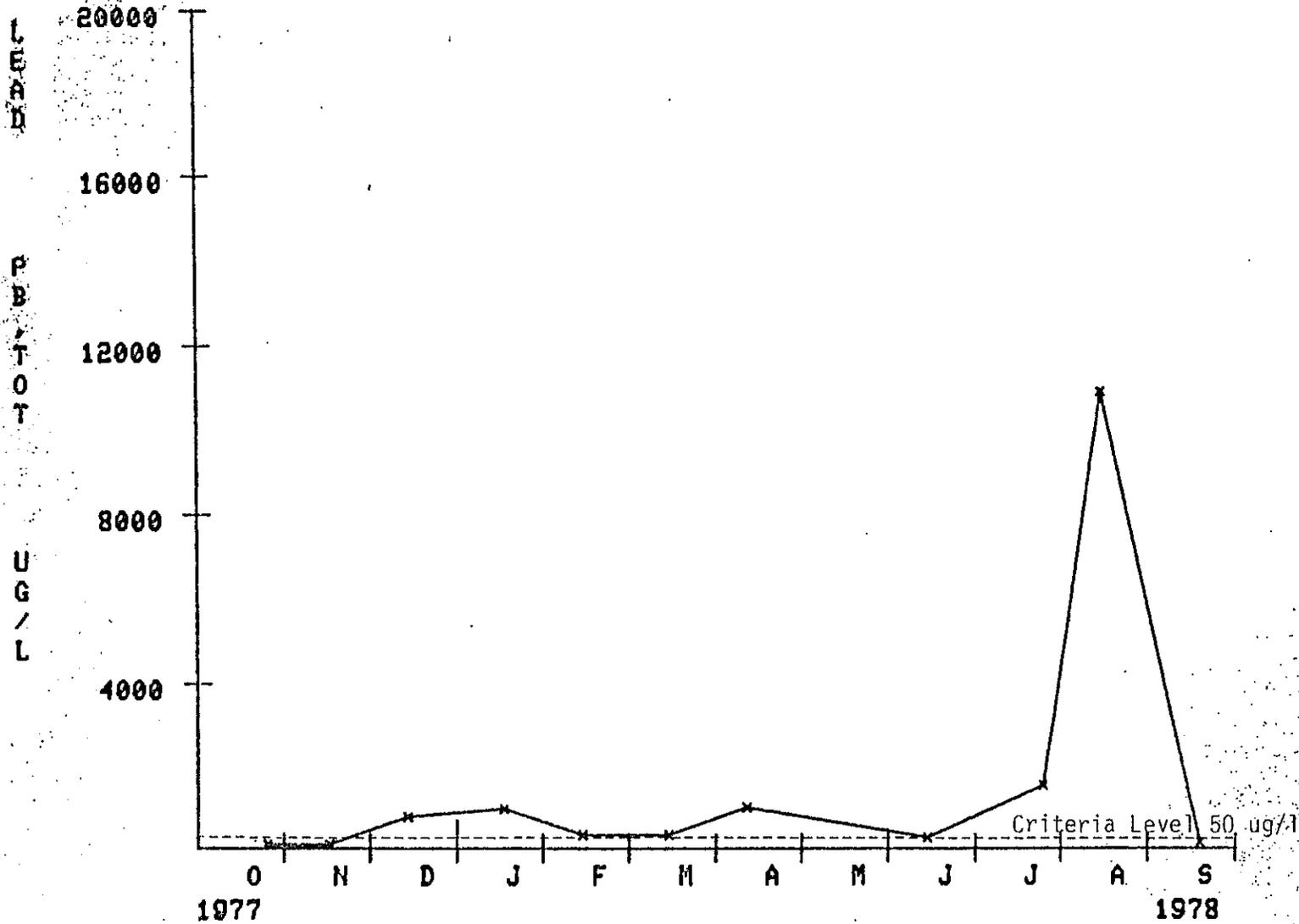
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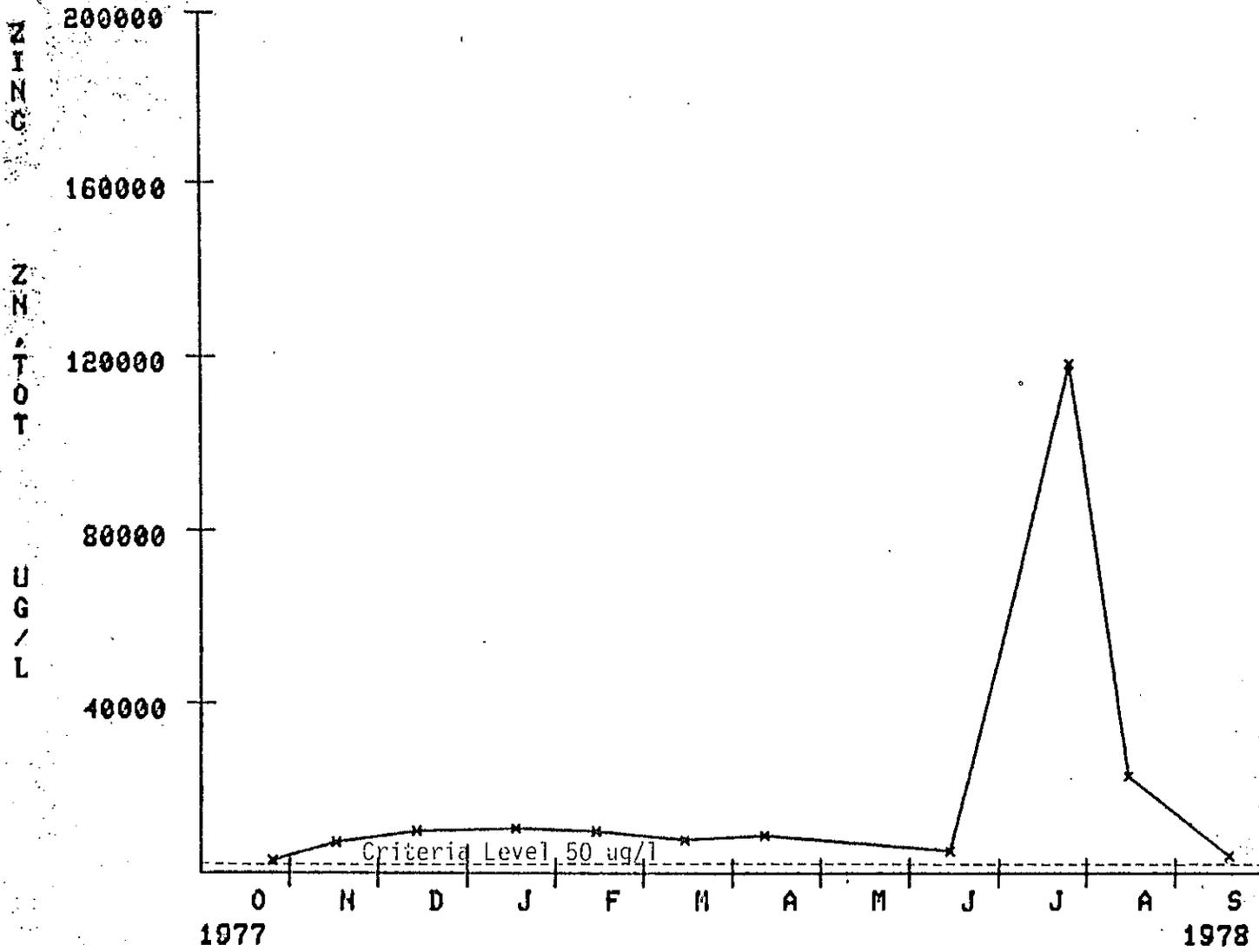
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BUNKER CK AT MOUTH AT FLUME



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BUNKER CK AT MOUTH AT FLUME



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BUNKER CK AT MOUTH AT FLUME



STORET STATION 2000109
BUNKER CK AT MOUTH AT FLUME

TOTAL UG/L

