APPENDIX B

BASE WATER LEVEL CHANGES AND WATER LEVEL FLUCTUATION FOR ALL WETLANDS (APRIL 1988 TO DECEMBER 1989)

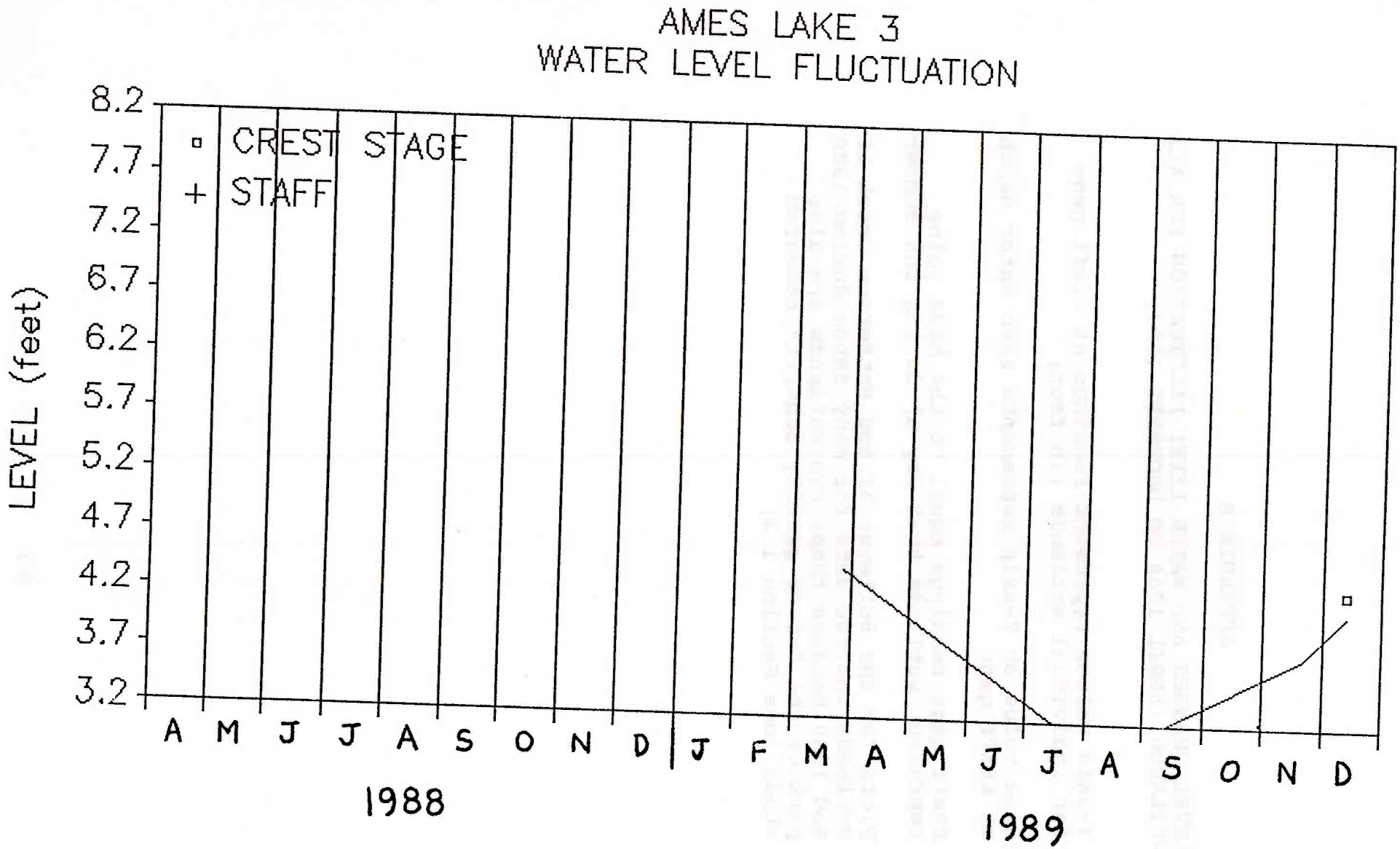
Notes:

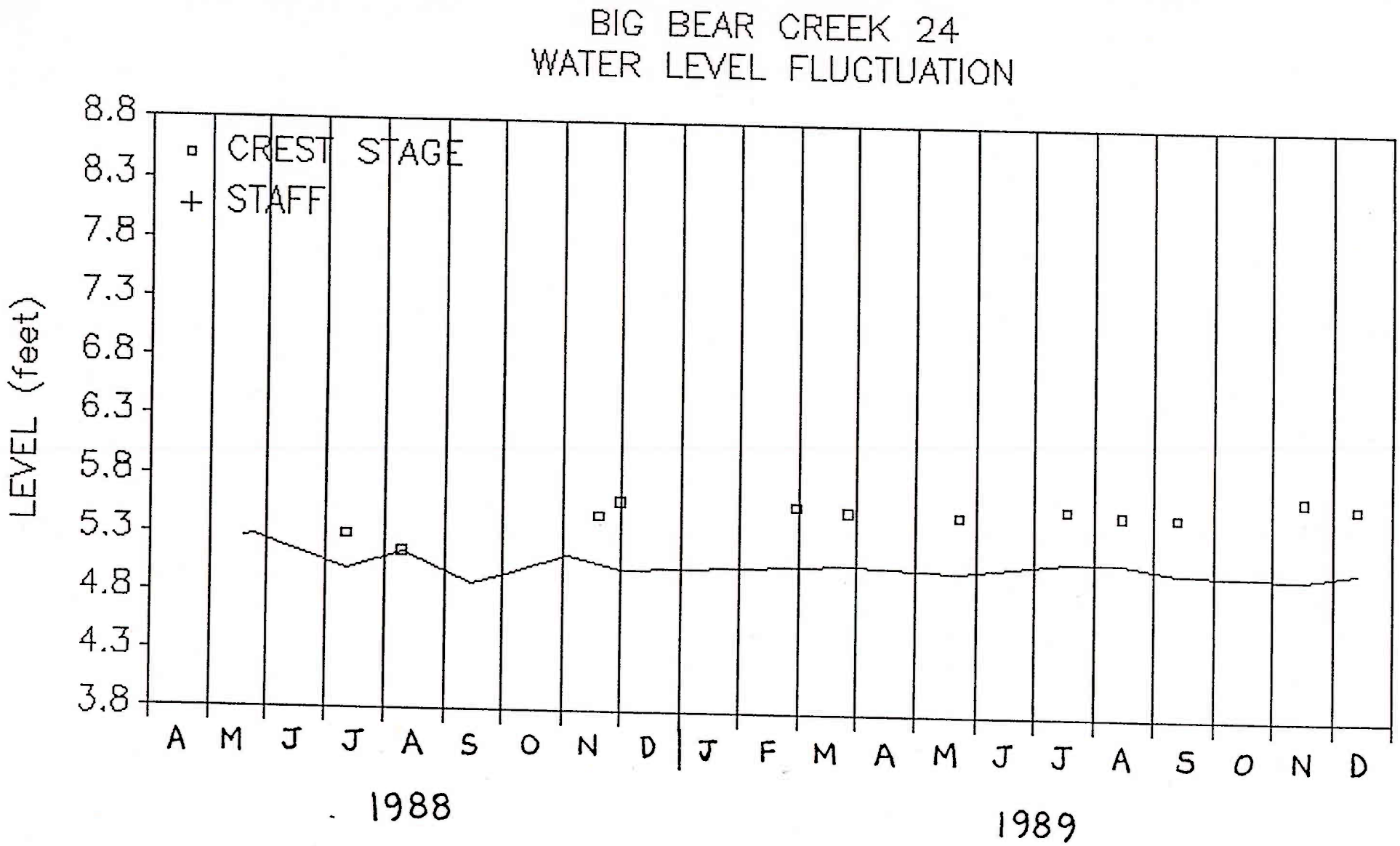
(1) Y-axis values represent readings at staff gage for individual wetlands (in feet)

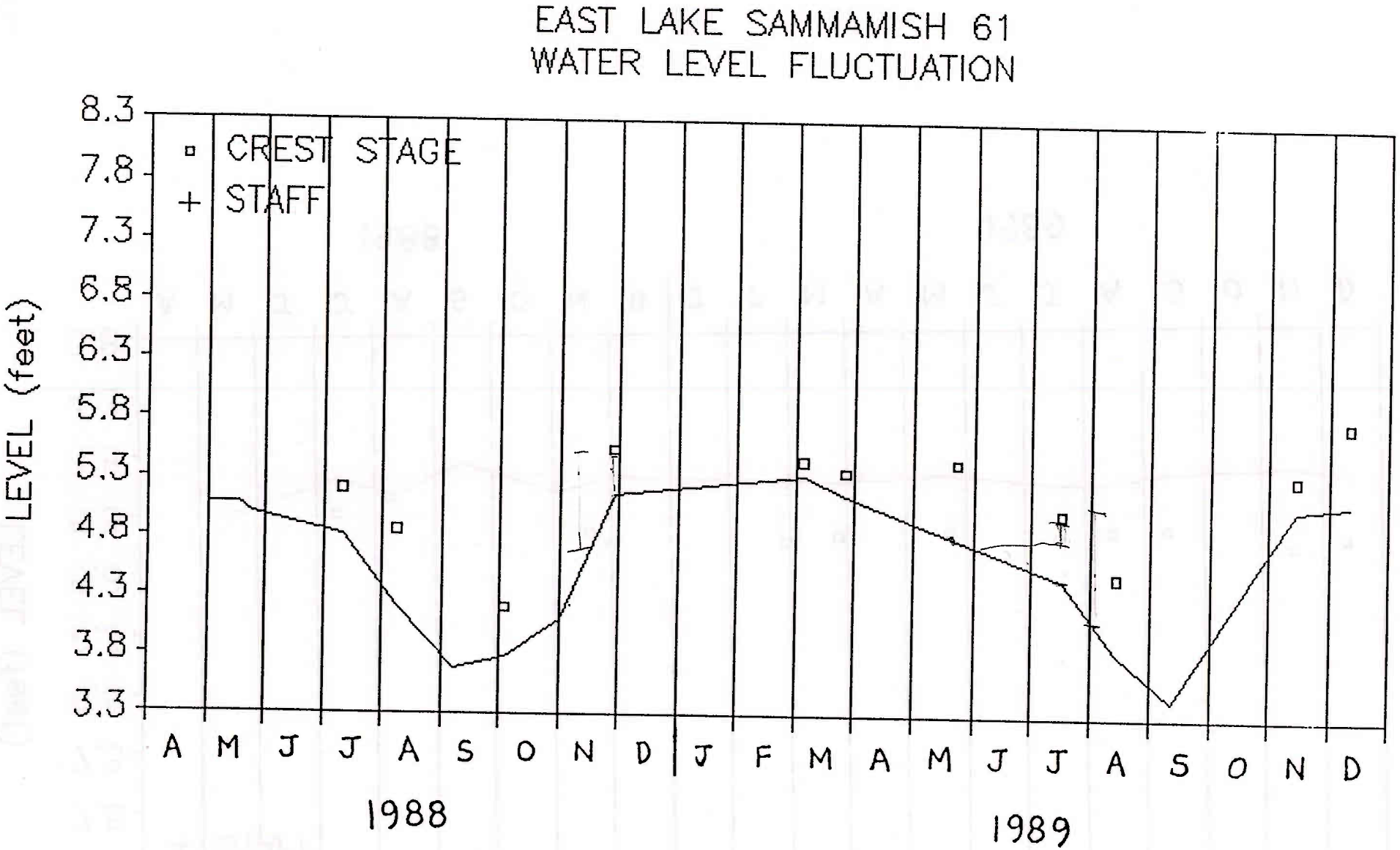
(2) Base value on Y-axis represents zero water depth at staff gage

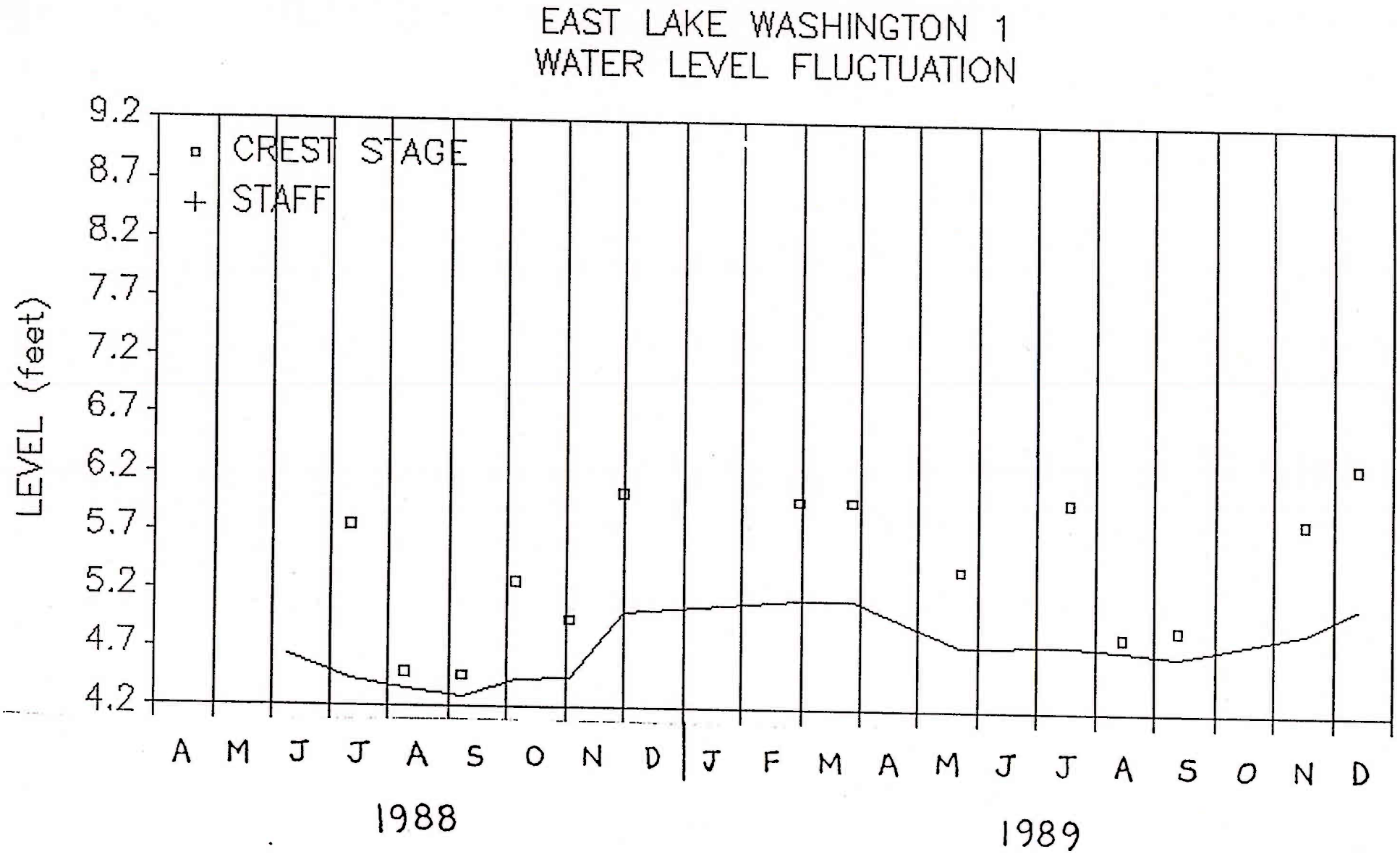
(3) Staff gage readings equal to the base value represent wetlands that dry up during the summer

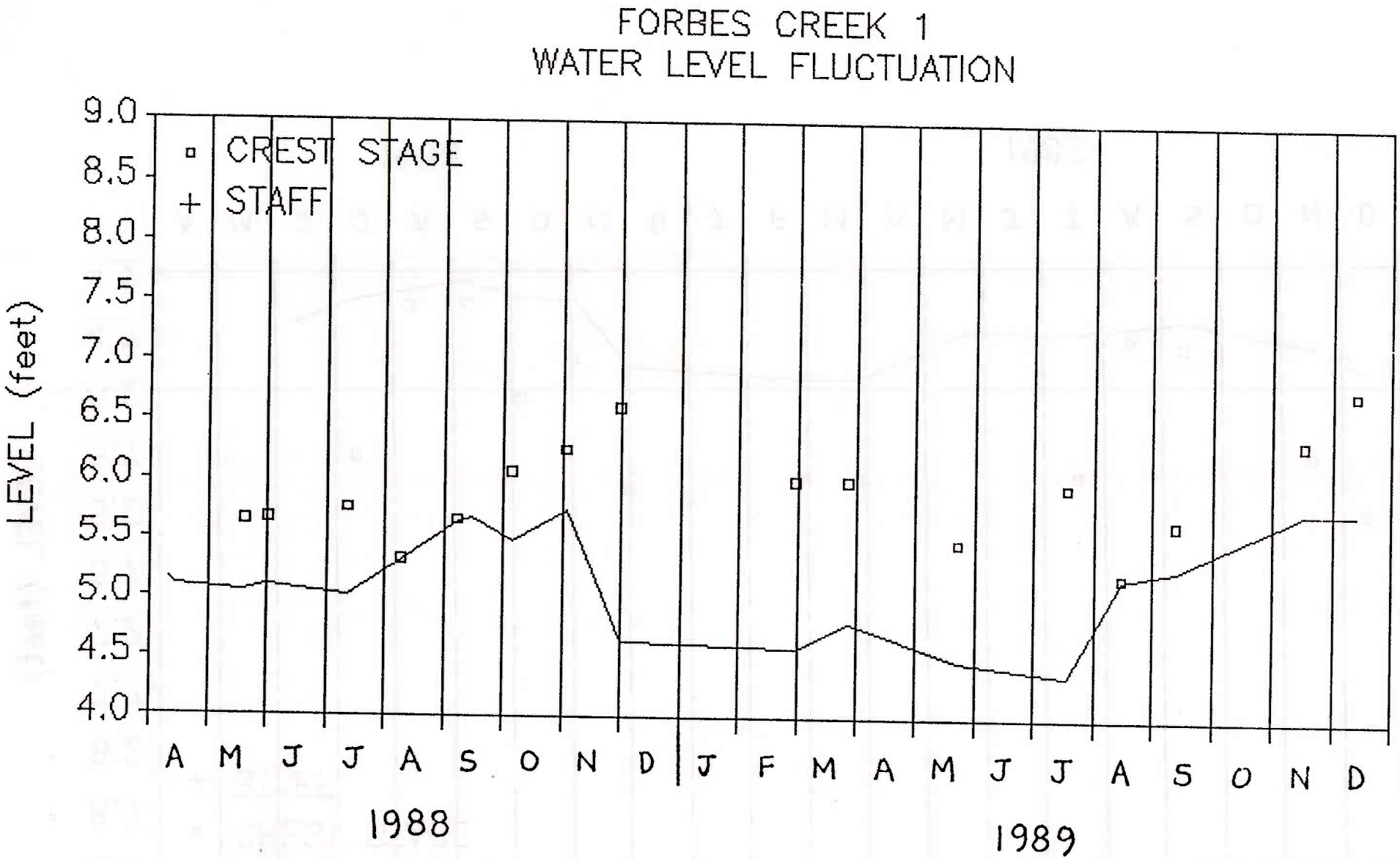
(4) Plots for the Bellevue 3I and Patterson Creek 12 wetlands include data for many dates during 1988 and 1989 because these two wetlands are also part of the "water quality benefit" research study (see Section 1.2)

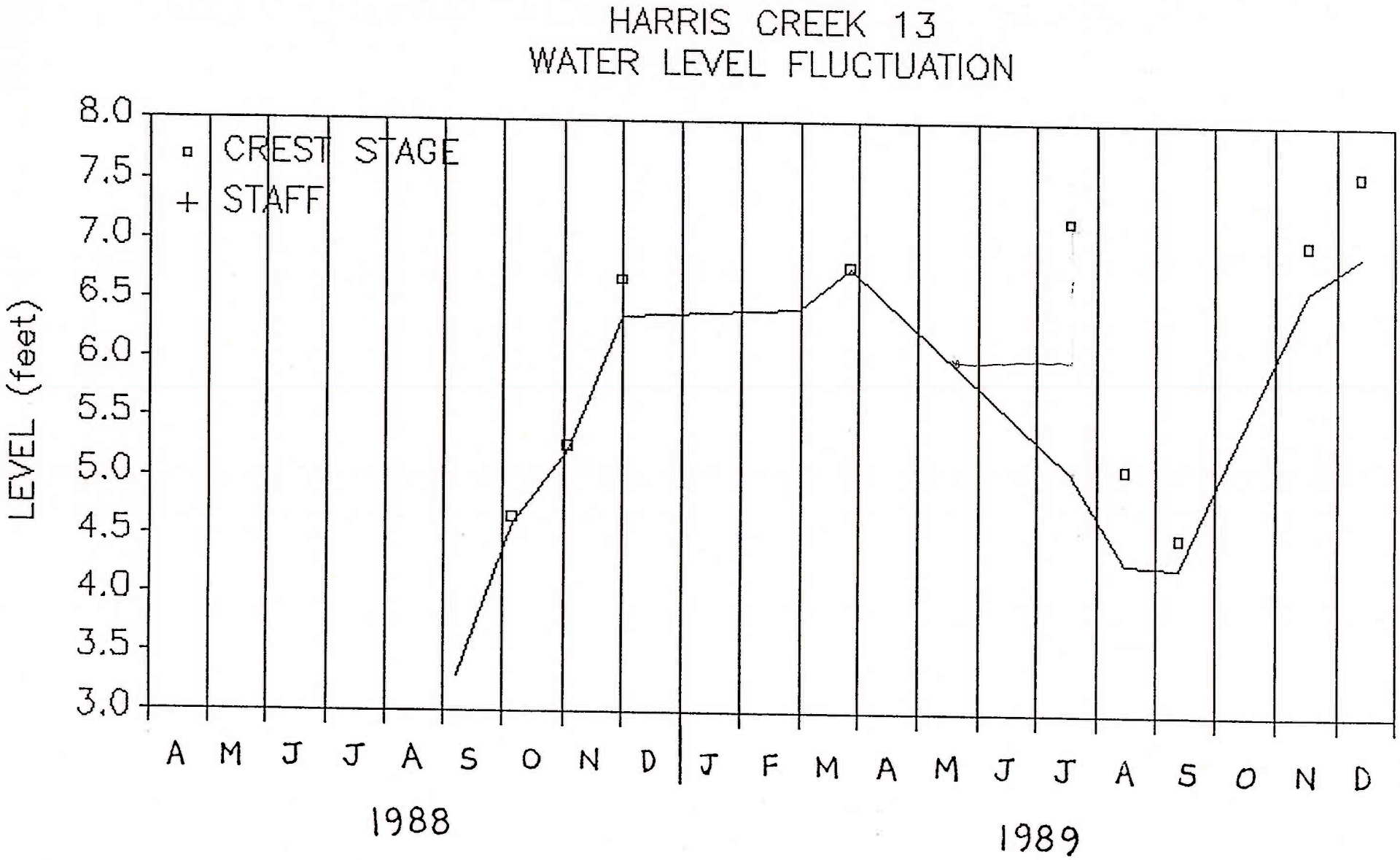

AMES LAKE 3
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.2
7.7
7.2
6.7
6.2
5.7
5.2
4.7
4.2
3.7
3.2
A M J J A S O N D J F M A M J J A S O N D
1988
1989

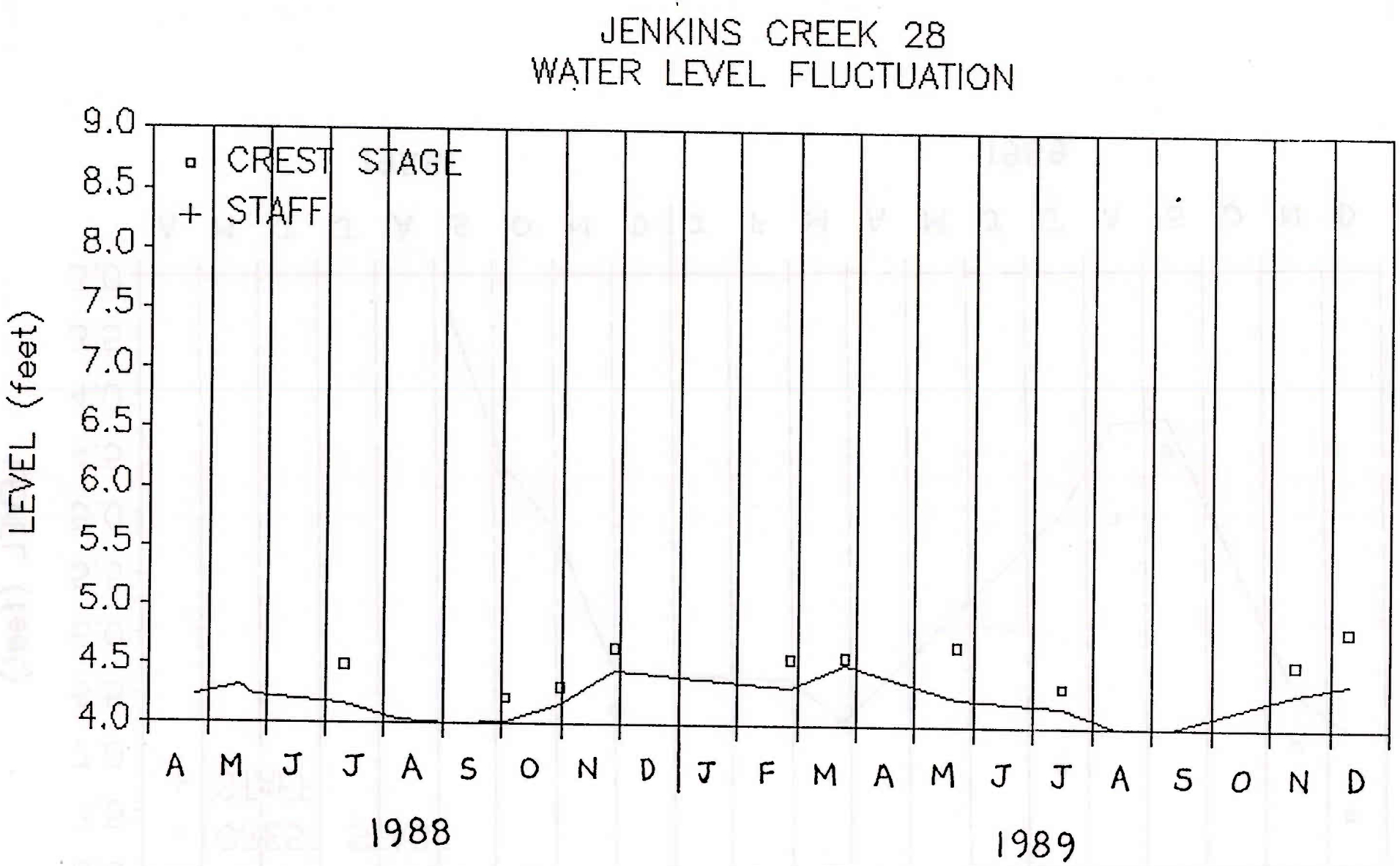

BIG BEAR CREEK 24
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.8
8.3
7.8
7.3
6.8
6.3
5.8
5.3
4.8
4.3
3.8
A M J J A S O N D J F M A M J J A S O N D
1988
1989

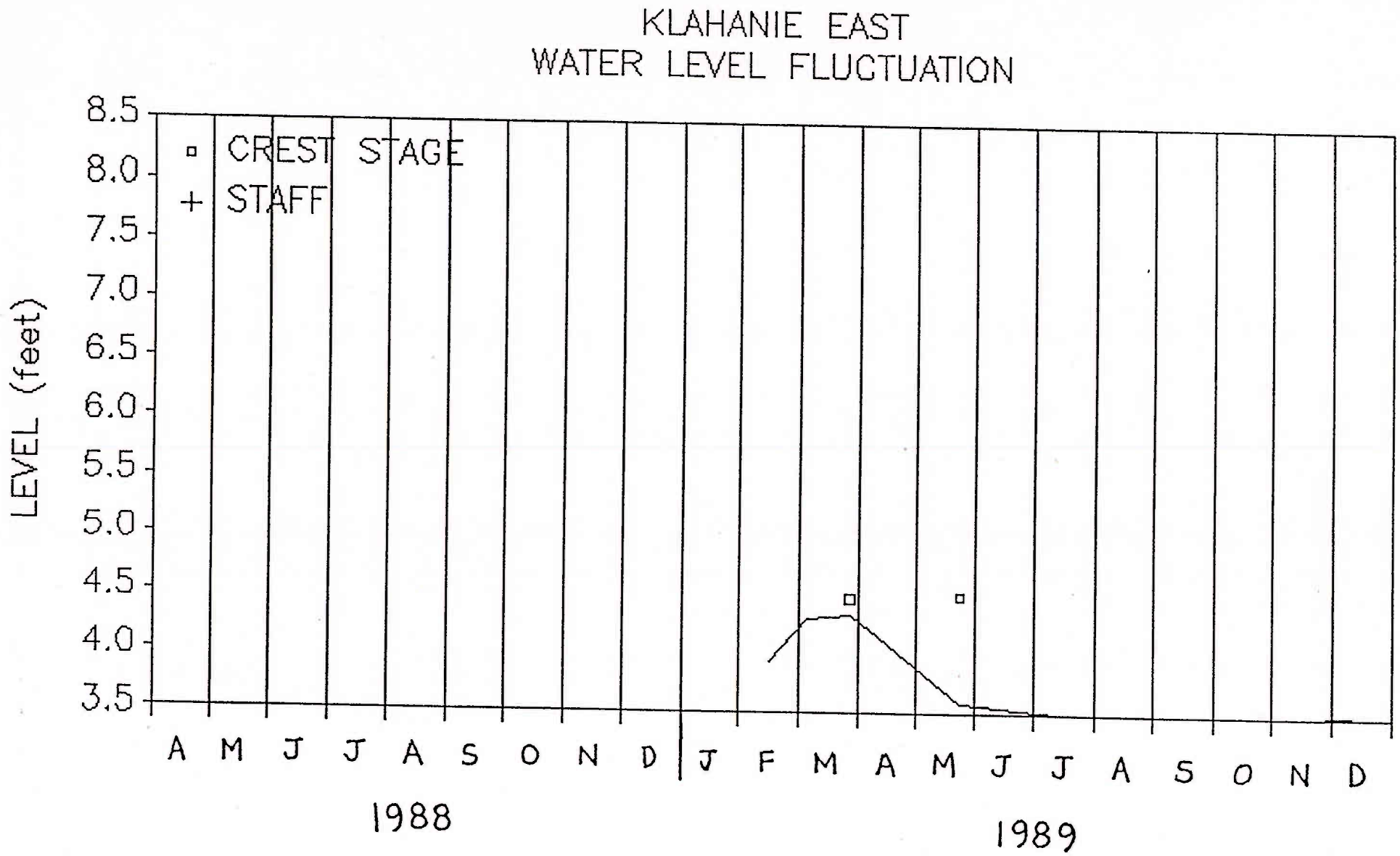

EAST LAKE SAMMAMISH 61
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.3
7.8
7.3
6.8
6.3
5.8
5.3
4.8
4.3
3.8
3.3
A M J J A S O N D J F M A M J J A S O N D
1988
1989

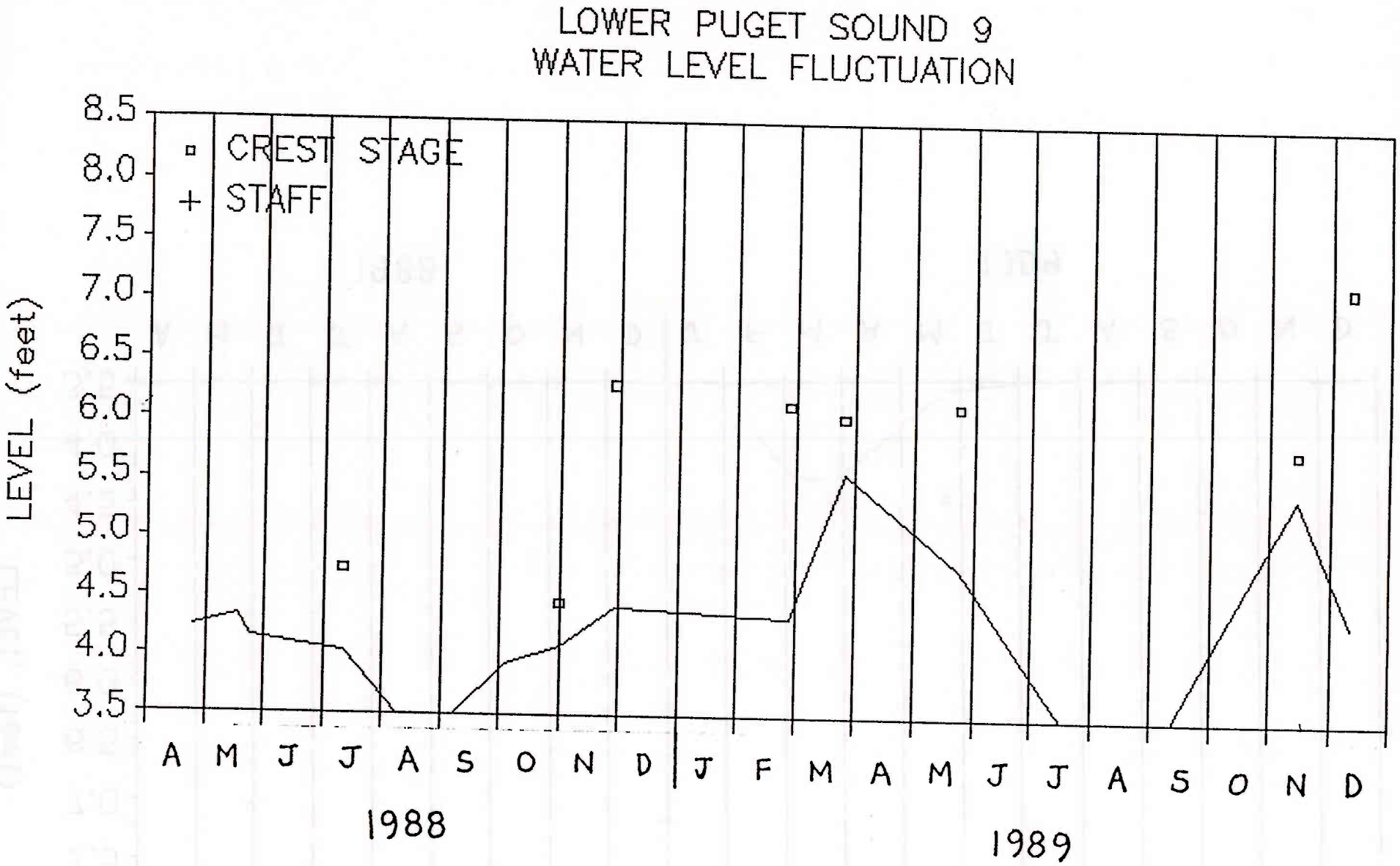

EAST LAKE WASHINGTON 1
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
9.2
8.7
8.2
7.7
7.2
6.7
6.2
5.7
5.2
4.7
4.2
A M J J A S O N D J F M A M J J A S O N D
1988
1989

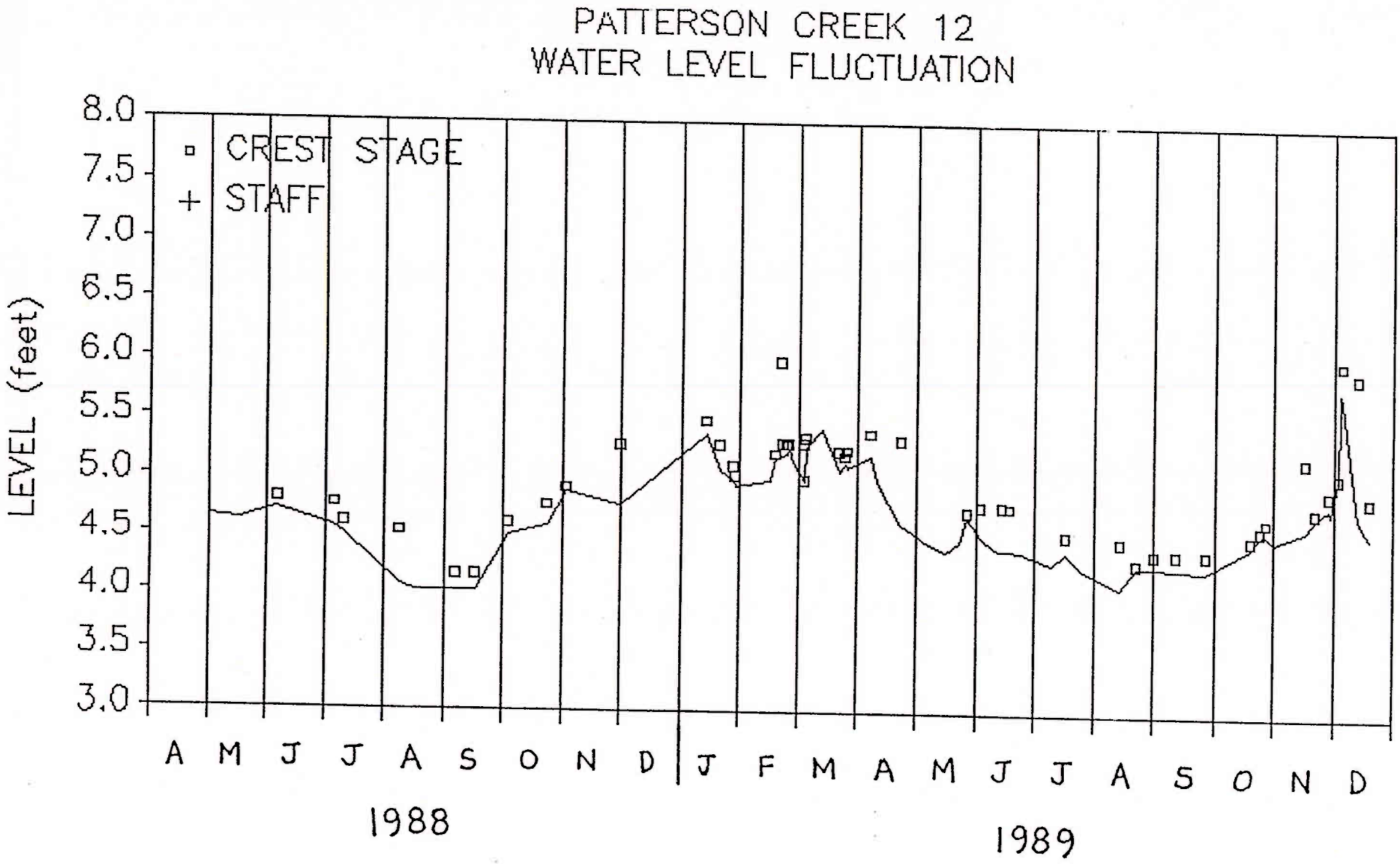

FORBES CREEK 1
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
A M J J A S O N D J F M A M J J A S O N D
1988
1989

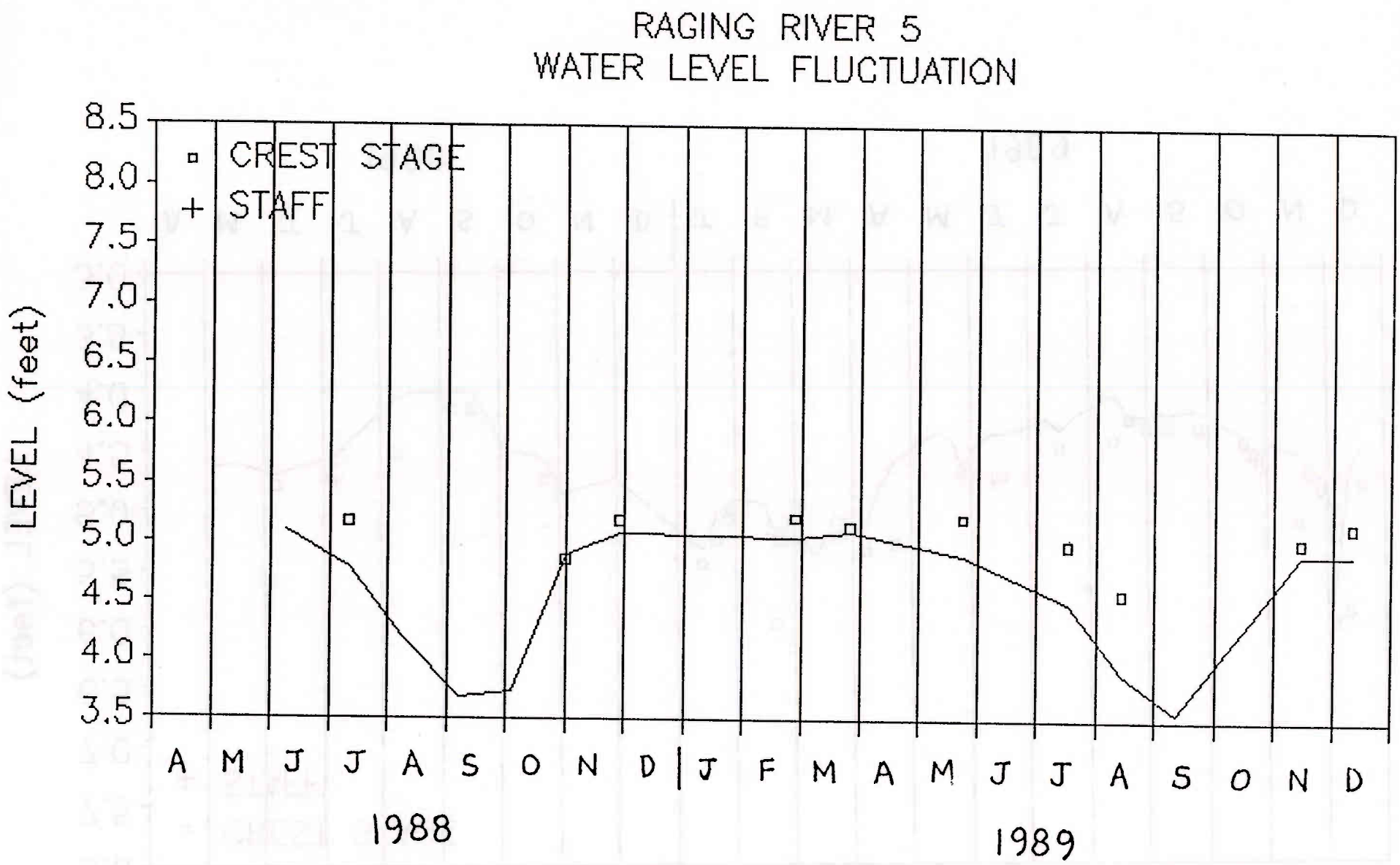

HARRIS CREEK 13
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
A M J J A S O N D J F M A M J J A S O N D
1988
1989

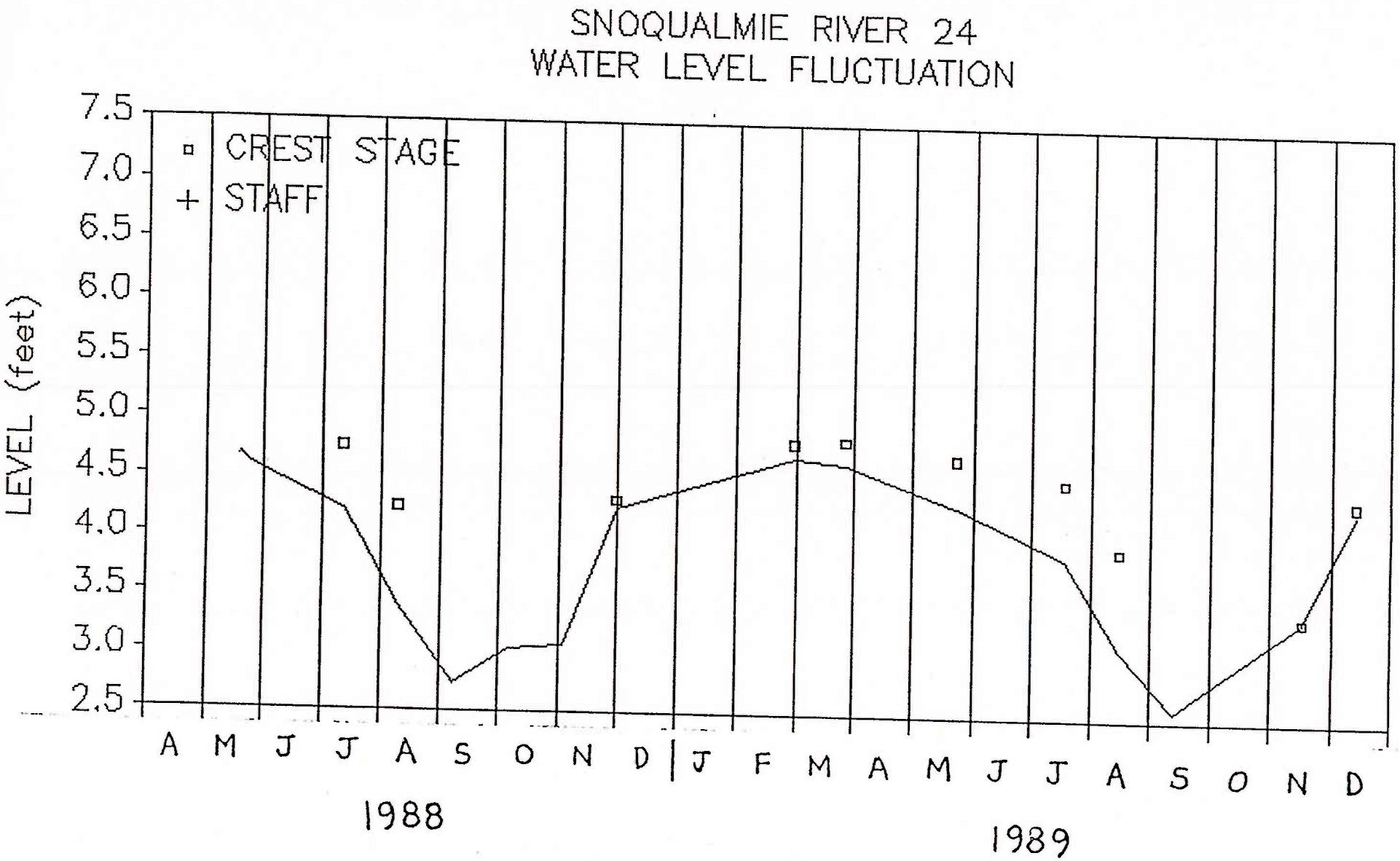

JENKINS CREEK 28
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
9.0
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
A M J J A S O N D J F M A M J J A S O N D
1988
1989

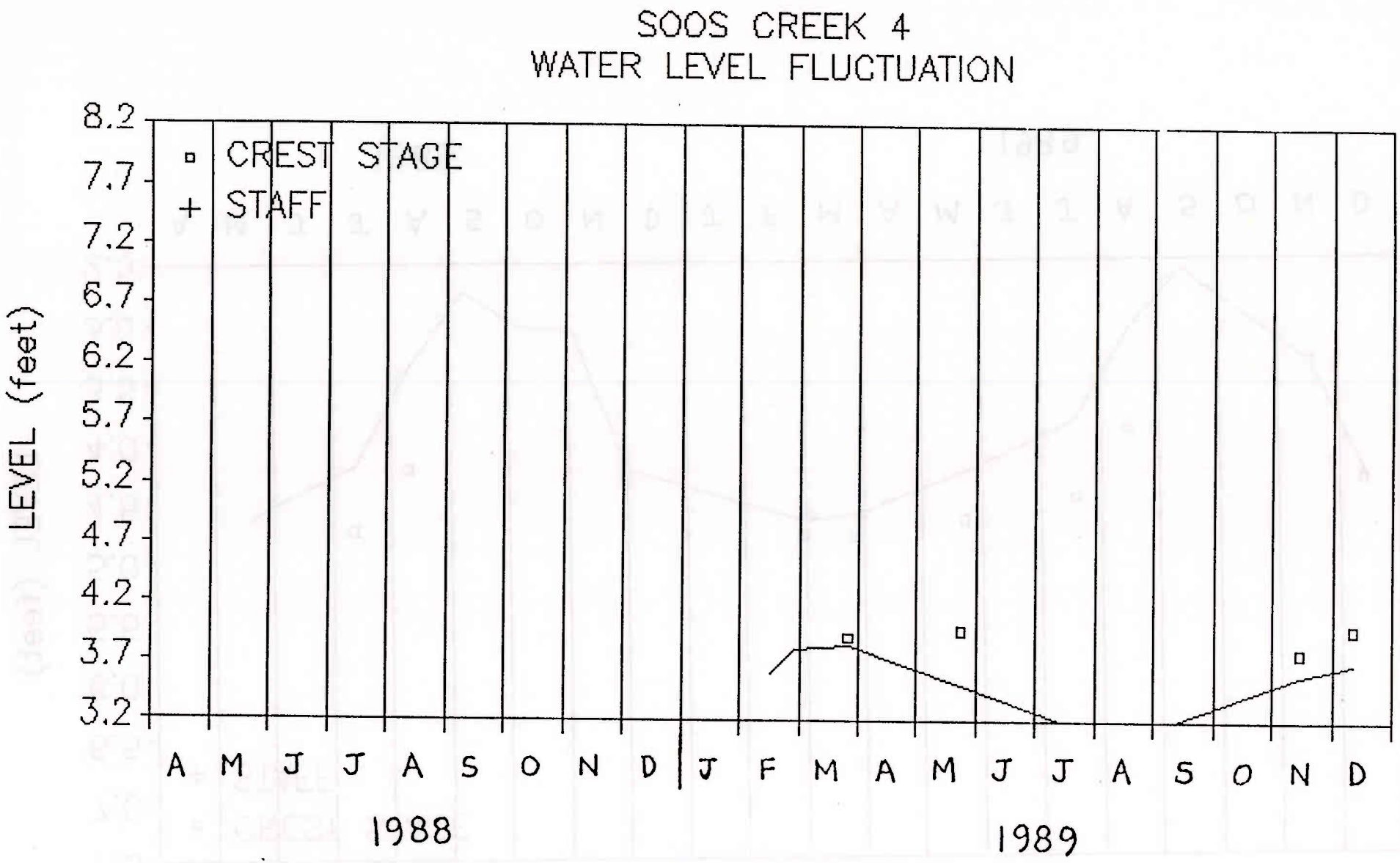

KLAHANIE EAST
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
A M J J A S O N D J F M A M J J A S O N D
1988
1989

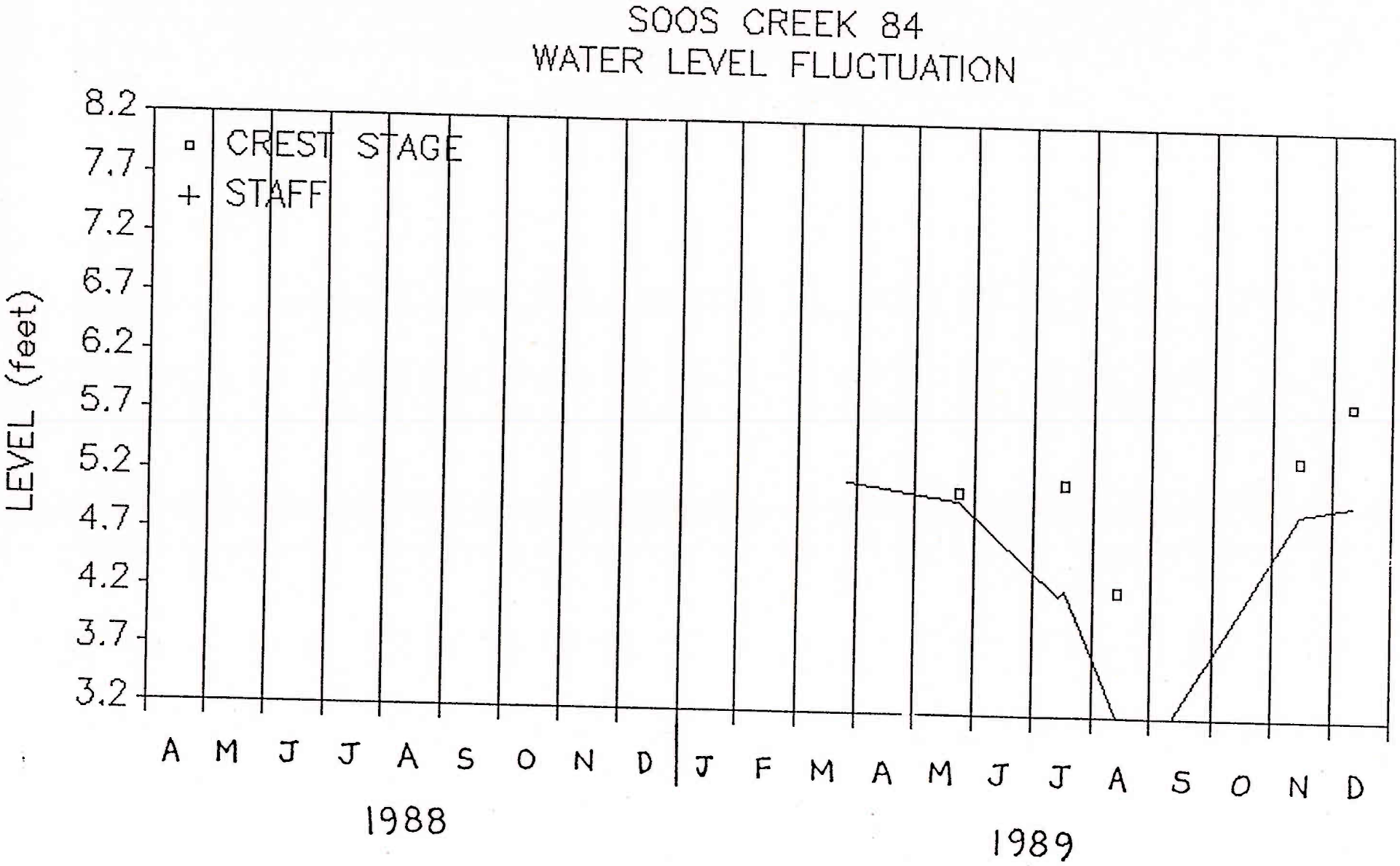

LOWER PUGET SOUND 9
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
A M J J A S O N D J F M A M J J A S O N D
1988
1989


PATTERSON CREEK 12
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
A M J J A S O N D J F M A M J J A S O N D
1988
1989


RAGING RIVER 5
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.5
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
A M J J A S O N D J F M A M J J A S O N D
1988
1989


SNOQUALMIE RIVER 24
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
A M J J A S O N D J F M A M J J A S O N D
1988
1989


SOOS CREEK 4
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.2
7.7
7.2
6.7
6.2
5.7
5.2
4.7
4.2
3.7
3.2
A M J J A S O N D J F M A M J J A S O N D
1988
1989


SOOS CREEK 84
WATER LEVEL FLUCTUATION
CREST STAGE
STAFF
LEVEL (feet)
8.2
7.7
7.2
6.7
6.2
5.7
5.2
4.7
4.2
3.7
3.2
A M J J A S O N D J F M A M J J A S O N D
1988
1989

APPENDIX C1

Summary Statistics for Water Depths (Instantaneous and Crest) at Gages for All Occasions (a)
(values in feet - sorted by mean instantaneous depth)

	Instantaneous					Crest				
WETLAND	n	Range	Mean	SD	CV	n	Range	Mean	SD	CV
KE	10	0.00-0.79	0.17	0.33	1.93	2	0.93-0.95	0.94	0.01	0.01
JC28	17	0.00-0.52	0.21	0.16	0.74	10	0.22-0.83	0.52	0.18	0.34
SC4	10	0.00-0.64	0.28	0.25	0.88	4	0.58-0.78	0.71	0.08	0.11
ELS39	16	0.00-2.09	0.45	0.64	1.41	7	0.73-3.68	2.09	0.88	0.42
TC13	7	0.00-1.53	0.47	0.52	1.09	1	1.57-1.57	1.57	0.00	0.00
AL3	7	0.00-1.27	0.49	0.48	0.96	1	1.15-1.15	1.15	0.00	0.00
ELW1	15	0.09-0.94	0.53	0.28	0.54	14	0.27-2.12	1.25	0.60	0.48
LCR93	10	0.00-1.15	0.64	0.40	0.63	8	0.82-1.97	1.39	0.34	0.24
LPS9	17	0.00-2.08	0.68	0.61	0.89	8	0.95-3.66	2.34	0.82	0.35
MGR36	17	0.44-0.89	0.73	0.15	0.21	14	0.71-1.06	0.90	0.11	0.12
RR5	15	0.08-1.60	1.05	0.55	0.52	10	1.07-1.71	1.55	0.19	0.12
FC1	19	0.37-1.77	1.17	0.43	0.37	16	1.20-2.77	1.90	0.43	0.22
SC84	8	0.00-1.98	1.19	0.76	0.64	5	1.07-2.69	1.97	0.53	0.27
BBC24	18	1.08-1.48	1.27	0.10	0.08	12	1.36-1.89	1.71	0.14	0.08
ELS61	17	0.15-2.02	1.30	0.60	0.47	12	0.90-2.50	1.85	0.45	0.25
SR24	16	0.09-2.20	1.30	0.72	0.56	11	0.87-2.34	1.88	0.44	0.23
PC12	70	1.02-2.78	1.73	0.42	0.24	48	1.16-3.02	1.95	0.44	0.23
B3I	108	2.06-3.67	2.28	0.32	0.14	71	2.12-4.91	2.97	0.66	0.22
HC13	11	0.30-3.92	2.44	1.19	0.49	9	1.51-4.58	3.08	1.12	0.36

(a) n = number of data points; SD = Standard Deviation; CV = Coefficient of Variation = SD/Mean

APPENDIX C2

Selected 12-month Precipitation Totals from Stations in King County, Washington
(Source: King County Surface Water Management)

Station Code	Station Description	Water Year 1988	WY1988 (Oct-Mar)	WY1988 (Apr-Sep)	Calendar Year 1988	CY1988 (Oct-Mar)	CY1988 (Apr-Sep)	Water Year 1989	WY1989 (Oct-Mar)	WY1989 (Apr-Sep)
03U	PANTHER LAKE	46.23	28.88	17.35	49.46	32.11	17.35	34.27	24.16	10.11
14U	NEAR I-90 AND HIGH POINT ROAD	49.79	28.66	21.13	57.78	36.65	21.13	53.51	40.29	13.22
18U	REDMOND BLOCK DEVELOPMENT	37.11	21.62	15.49	42.04	26.55	15.49	42.88	32.42	10.46
25Y	NEAR 276TH AVE SE AND HOLDER CREEK	39.36	23.61	15.75	48.81	33.06	15.75	54.02	41.11	12.91
27U	FIRE STATION ON KINGSGATE HILL	45.01	27.11	17.90	45.52	27.62	17.90	37.35	27.75	9.60
31V	FAIRWOOD GOLF COURSE CLUBHOUSE	33.73	20.58	13.15	39.95	26.80	13.15	41.74	30.36	11.38
31W	SPRING LAKE	33.60	20.72	12.88	33.57	20.69	12.88	36.18	25.71	10.47
32U	EAST OF AUBURN GOLF COURSE	-	-	-	-	-	-	37.65	28.50	9.15
41U	STAR LAKE	-	-	-	-	-	-	40.47	30.85	9.62
41V	LAKE DOLLOFF	-	-	-	-	-	-	40.71	31.90	8.81
46U	NORTHWEST GRAND RIDGE	-	-	-	-	-	-	48.91	37.46	11.45
51U	NORWAY HILL OFF 100TH AVE N.E.	-	-	-	-	-	-	34.80	26.51	8.29
51W	NEAR NE 139TH PL. AND 162ND AVE NE	-	-	-	-	-	-	33.23	25.18	8.05
	Mean Precip. for All Stations	40.69	24.45	16.24	45.30	29.07	16.24	41.21	30.94	10.27
	% Precip. During Wet/Dry Season	-	0.60	0.40	-	0.64	0.36	-	0.75	0.25