

Appendix J. Status in benthic community condition based on the B-IBI at the Virginia tributary and Chesapeake Bay main stem stations for the period of 2002 through 2004.

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Station	Score	Status
TF5.5	2.3	Degraded
RET5.2	3.2	Meets Goals
LE5.1	3.8	Meets Goals
LE5.2	2.9	Marginal
LE5.4	3.4	Meets Goals
TF4.2	2.0	Severely degraded
RET4.3	3.2	Meets Goals
LE4.1	2.5	Degraded
LE4.3	3.6	Meets Goals
LE4.3B	3.3	Meets Goals
TF3.3	3.7	Meets Goals
RET3.1	2.8	Marginal
LE3.2	1.7	Severely degraded
LE3.4	2.0	Degraded
SBE2	2.3	Degraded
SBE5	2.3	Degraded
CB5.4	2.4	Degraded
CB6.1	3.1	Meets Goals
CB6.4	3.4	Meets Goals
CB7.3E	3.6	Meets Goals
CB8.1	3.7	Meets Goals

Appendix K. Long term trends in the B-IBI and associated bioindicators for the Virginia tributary and Chesapeake Bay main stem monitoring stations for the period of 1985 through 2003. All trends shown were significant at  $p \leq 0.10$ .

Station	Parameter	P value	Slope	Baseline	% Change	Direction
TF5.5	Benthic Index of Biotic Integrity	0.1598	0.04	2.13	40.06	No Trend
TF5.5	Total Abundance per square meter	0.1534	208.69	1335.60	312.50	No Trend
TF5.5	Total Biomass per square meter	0.4168	0.03	0.34	159.61	No Trend
TF5.5	Shannon-Weiner Diversity Index	0.8457	0.00	1.18	7.66	No Trend
TF5.5	Pollution Sensitive Species Abundance	0.0042	1.33	0.00	N. E.	Improving
TF5.5	Pollution Indicative Species Abundance	0.3636	-0.46	20.14	-45.27	No Trend
TF5.5	Pollution Sensitive Species Biomass	0.0042	3.01	0.00	N. E.	Improving
TF5.5	Pollution Indicative Species Biomass	0.2992	-1.38	43.89	-63.00	No Trend
RET5.2	Benthic Index of Biotic Integrity	0.0013	0.06	1.92	63.24	Improving
RET5.2	Total Abundance per square meter	0.2055	27.30	610.56	89.41	No Trend
RET5.2	Total Biomass per square meter	0.7208	-0.01	7.34	-1.84	No Trend
RET5.2	Shannon-Weiner Diversity Index	0.0137	0.05	1.66	56.55	Improving
RET5.2	Pollution Sensitive Species Abundance	0.0012	1.58	10.42	304.13	Improving
RET5.2	Pollution Indicative Species Abundance	0.8419	0.00	16.67	0.00	No Trend
RET5.2	Pollution Sensitive Species Biomass	0.0137	2.23	28.04	158.94	Improving
RET5.2	Pollution Indicative Species Biomass	0.3352	-0.01	8.42	-1.67	No Trend
LE5.1	Benthic Index of Biotic Integrity	0.3866	0.02	3.02	12.52	No Trend
LE5.1	Total Abundance per square meter	0.8691	6.13	524.70	19.87	No Trend
LE5.1	Total Biomass per square meter	0.3648	-0.03	5.71	-10.01	No Trend
LE5.1	Shannon-Weiner Diversity Index	0.8048	0.01	2.06	5.08	No Trend
LE5.1	Pollution Sensitive Species Abundance	0.5641	-0.29	32.16	-15.32	No Trend
LE5.1	Pollution Indicative Species Abundance	0.1554	0.28	7.13	66.00	No Trend
LE5.1	Pollution Sensitive Species Biomass	0.8691	-0.22	74.24	-4.96	No Trend
LE5.1	Pollution Indicative Species Biomass	0.1554	0.12	4.82	42.11	No Trend
LE5.2	Benthic Index of Biotic Integrity	0.5811	-0.02	3.33	-10.94	No Trend
LE5.2	Total Abundance per square meter	0.0976	41.62	1221.12	68.17	Improving
LE5.2	Total Biomass per square meter	0.3978	-0.12	4.58	-54.17	No Trend
LE5.2	Shannon-Weiner Diversity Index	0.2992	-0.03	2.55	-21.36	No Trend
LE5.2	Pollution Sensitive Species Abundance	0.0443	2.07	34.48	119.99	Improving
LE5.2	Pollution Indicative Species Abundance	0.9483	-0.07	17.25	-8.48	No Trend
LE5.2	Pollution Sensitive Species Biomass	0.7952	0.66	40.78	32.52	No Trend
LE5.2	Pollution Indicative Species Biomass	0.1194	0.38	8.76	87.02	No Trend
LE5.4	Benthic Index of Biotic Integrity	0.8704	0.00	3.73	0.00	No Trend
LE5.4	Total Abundance per square meter	0.5164	19.95	2528.10	15.78	No Trend
LE5.4	Total Biomass per square meter	0.0023	-1.54	22.86	-134.39	Degrading
LE5.4	Shannon-Weiner Diversity Index	0.0798	-0.02	3.69	-12.86	Degrading
LE5.4	Pollution Sensitive Species Abundance	0.2176	-0.71	50.52	-27.97	No Trend
LE5.4	Pollution Indicative Species Abundance	0.1214	-0.07	1.99	-71.06	No Trend
LE5.4	Pollution Sensitive Species Biomass	0.0231	-1.72	60.10	-57.39	Degrading
LE5.4	Pollution Indicative Species Biomass	0.9737	0.00	0.51	0.00	No Trend
SBE2	Benthic Index of Biotic Integrity	0.2403	0.02	2.00	19.37	No Trend
SBE2	Total Abundance per square meter	0.0271	186.12	1659.96	179.39	Improving
SBE2	Total Biomass per square meter	0.3214	0.03	0.92	49.07	No Trend
SBE2	Shannon-Weiner Diversity Index	0.4713	0.02	1.67	20.62	No Trend
SBE2	Pollution Sensitive Species Abundance	0.0003	4.77	4.62	1649.97	Improving
SBE2	Pollution Indicative Species Abundance	0.0192	-3.12	72.25	-69.19	Improving
SBE2	Pollution Sensitive Species Biomass	0.0272	2.16	8.41	411.33	Improving
SBE2	Pollution Indicative Species Biomass	0.8571	-0.15	44.94	-5.17	No Trend
SBE5	Benthic Index of Biotic Integrity	0.0050	0.07	1.25	95.59	Improving
SBE5	Total Abundance per square meter	0.7187	50.56	3806.46	21.25	No Trend
SBE5	Total Biomass per square meter	0.1612	0.05	0.58	131.15	No Trend
SBE5	Shannon-Weiner Diversity Index	0.5890	0.02	0.99	36.55	No Trend
SBE5	Pollution Sensitive Species Abundance	0.0000	4.01	0.31	20503.15	Improving
SBE5	Pollution Indicative Species Abundance	0.0012	-5.13	85.43	-96.15	Improving
SBE5	Pollution Sensitive Species Biomass	0.0060	2.79	2.15	2072.05	Improving
SBE5	Pollution Indicative Species Biomass	0.0717	-3.16	77.83	-65.06	Improving

Appendix K. Continued.

Station	Parameter	P value	Slope	Baseline	% Change	Direction
TF4.2	Benthic Index of Biotic Integrity	0.6547	-0.02	3.00	-12.96	No Trend
TF4.2	Total Abundance per square meter	0.0899	83.29	410.22	406.08	Improving
TF4.2	Total Biomass per square meter	0.5606	0.01	0.15	103.57	No Trend
TF4.2	Shannon-Weiner Diversity Index	0.0322	0.04	0.96	75.44	Improving
TF4.2	Pollution Sensitive Species Abundance	0.2277	0.55	12.50	88.19	No Trend
TF4.2	Pollution Indicative Species Abundance	0.0438	0.69	4.17	329.24	Degrading
TF4.2	Pollution Sensitive Species Biomass	0.8934	-0.14	19.44	-14.40	No Trend
TF4.2	Pollution Indicative Species Biomass	0.0314	1.26	11.11	227.37	Degrading
RET4.3	Benthic Index of Biotic Integrity	0.1951	-0.03	3.70	-17.12	No Trend
RET4.3	Total Abundance per square meter	0.0742	151.28	1030.32	293.67	Improving
RET4.3	Total Biomass per square meter	0.4213	-0.25	4.43	-114.12	No Trend
RET4.3	Shannon-Weiner Diversity Index	0.1081	-0.04	2.74	-27.28	No Trend
RET4.3	Pollution Sensitive Species Abundance	0.2841	-0.97	40.89	-47.54	No Trend
RET4.3	Pollution Indicative Species Abundance	0.5922	-0.12	12.91	-18.69	No Trend
RET4.3	Pollution Sensitive Species Biomass	0.8583	0.05	83.08	1.13	No Trend
RET4.3	Pollution Indicative Species Biomass	0.8583	0.03	3.23	15.94	No Trend
LE4.1	Benthic Index of Biotic Integrity	0.0598	-0.05	3.10	-34.95	Degrading
LE4.1	Total Abundance per square meter	0.5919	-16.76	1535.94	-21.82	No Trend
LE4.1	Total Biomass per square meter	0.1291	-0.97	27.51	-70.55	No Trend
LE4.1	Shannon-Weiner Diversity Index	0.0322	-0.02	2.54	-19.30	Degrading
LE4.1	Pollution Sensitive Species Abundance	0.7889	-0.30	37.56	-15.74	No Trend
LE4.1	Pollution Indicative Species Abundance	0.3481	0.55	23.71	46.47	No Trend
LE4.1	Pollution Sensitive Species Biomass	0.0124	-3.16	82.49	-76.55	Degrading
LE4.1	Pollution Indicative Species Biomass	0.0670	0.93	8.28	224.31	Degrading
LE4.3	Benthic Index of Biotic Integrity	0.1824	0.02	2.95	11.30	No Trend
LE4.3	Total Abundance per square meter	0.9672	-2.12	3138.66	-1.35	No Trend
LE4.3	Total Biomass per square meter	0.9020	0.15	6.32	48.34	No Trend
LE4.3	Shannon-Weiner Diversity Index	0.2675	0.03	2.47	25.78	No Trend
LE4.3	Pollution Sensitive Species Abundance	0.7738	-0.11	56.44	-4.05	No Trend
LE4.3	Pollution Indicative Species Abundance	0.5379	-0.24	15.73	-29.92	No Trend
LE4.3	Pollution Sensitive Species Biomass	0.9020	0.11	72.97	2.96	No Trend
LE4.3	Pollution Indicative Species Biomass	0.9672	0.01	4.14	5.62	No Trend
LE4.3B	Benthic Index of Biotic Integrity	0.0500	0.10	2.62	64.14	Improving
LE4.3B	Total Abundance per square meter	0.4459	52.87	2766.60	32.49	No Trend
LE4.3B	Total Biomass per square meter	0.8276	0.02	3.28	9.88	No Trend
LE4.3B	Shannon-Weiner Diversity Index	0.1274	0.07	2.44	49.13	No Trend
LE4.3B	Pollution Sensitive Species Abundance	0.1274	1.33	18.36	123.34	No Trend
LE4.3B	Pollution Indicative Species Abundance	0.0385	-2.09	41.44	-85.59	Improving
LE4.3B	Pollution Sensitive Species Biomass	0.6631	0.31	54.16	9.73	No Trend
LE4.3B	Pollution Indicative Species Biomass	0.5861	-0.40	14.87	-45.42	No Trend

Appendix K. Continued.

Station	Parameter	P value	Slope	Baseline	% Change	Direction
TF3.3	Benthic Index of Biotic Integrity	0.5951	0.02	3.40	11.44	No Trend
TF3.3	Total Abundance per square meter	0.7049	-14.91	1001.70	-29.76	No Trend
TF3.3	Total Biomass per square meter	0.0582	-2.27	93.92	-48.29	Degrading
TF3.3	Shannon-Weiner Diversity Index	0.7049	0.00	1.95	-4.43	No Trend
TF3.3	Pollution Sensitive Species Abundance	0.4047	-0.61	32.36	-37.77	No Trend
TF3.3	Pollution Indicative Species Abundance	0.0486	0.71	0.00	N.E.	Degrading
TF3.3	Pollution Sensitive Species Biomass	0.0124	-2.24	80.17	-55.89	Degrading
TF3.3	Pollution Indicative Species Biomass	0.1525	0.27	0.00	N.E.	No Trend
RET3.1	Benthic Index of Biotic Integrity	0.0150	-0.07	3.57	-37.38	Degrading
RET3.1	Total Abundance per square meter	0.4040	42.42	1001.70	84.70	No Trend
RET3.1	Total Biomass per square meter	0.0080	-0.44	9.02	-98.31	Degrading
RET3.1	Shannon-Weiner Diversity Index	0.0956	-0.03	2.40	-22.62	Degrading
RET3.1	Pollution Sensitive Species Abundance	0.0064	-1.60	33.99	-93.97	Degrading
RET3.1	Pollution Indicative Species Abundance	0.6215	0.11	1.88	122.31	No Trend
RET3.1	Pollution Sensitive Species Biomass	0.0080	-4.20	71.23	-117.85	Degrading
RET3.1	Pollution Indicative Species Biomass	0.4251	0.03	1.57	41.69	No Trend
LE3.2	Benthic Index of Biotic Integrity	0.7904	-0.01	2.00	-6.20	No Trend
LE3.2	Total Abundance per square meter	0.1292	19.08	429.30	88.89	No Trend
LE3.2	Total Biomass per square meter	0.4481	0.01	0.27	52.38	No Trend
LE3.2	Shannon-Weiner Diversity Index	0.9698	0.00	1.21	-0.32	No Trend
LE3.2	Pollution Sensitive Species Abundance	0.8788	0.00	41.28	0.00	No Trend
LE3.2	Pollution Indicative Species Abundance	0.6222	0.17	50.26	6.94	No Trend
LE3.2	Pollution Sensitive Species Biomass	1.0000	0.00	46.51	0.00	No Trend
LE3.2	Pollution Indicative Species Biomass	0.4260	0.92	36.27	50.54	No Trend
LE3.4	Benthic Index of Biotic Integrity	0.3214	0.03	2.40	25.00	No Trend
LE3.4	Total Abundance per square meter	1.0000	0.00	791.82	0.00	No Trend
LE3.4	Total Biomass per square meter	0.9641	0.00	1.17	-1.83	No Trend
LE3.4	Shannon-Weiner Diversity Index	0.9282	-0.01	1.56	-7.76	No Trend
LE3.4	Pollution Sensitive Species Abundance	0.8203	0.00	16.74	0.00	No Trend
LE3.4	Pollution Indicative Species Abundance	0.3444	-1.21	68.60	-31.66	No Trend
LE3.4	Pollution Sensitive Species Biomass	0.7505	-0.36	51.66	-12.57	No Trend
LE3.4	Pollution Indicative Species Biomass	0.6204	-1.02	38.94	-47.04	No Trend

Appendix K. Continued.

Station	Parameter	P value	Slope	Baseline	% Change	Direction
CB5.4	Benthic Index of Biotic Integrity	0.7908	0.01	1.85	10.78	No Trend
CB5.4	Total Abundance per square meter	0.2251	34.49	333.90	206.59	No Trend
CB5.4	Total Biomass per square meter	0.9697	0.00	0.44	0.00	No Trend
CB5.4	Shannon-Weiner Diversity Index	0.4954	0.01	1.71	14.12	No Trend
CB5.4	Pollution Sensitive Species Abundance	0.6494	-0.40	29.84	-27.13	No Trend
CB5.4	Pollution Indicative Species Abundance	0.9396	0.03	36.32	1.42	No Trend
CB5.4	Pollution Sensitive Species Biomass	0.4047	-0.77	29.89	-51.32	No Trend
CB5.4	Pollution Indicative Species Biomass	0.2889	-0.73	33.95	-42.93	No Trend
CB6.1	Benthic Index of Biotic Integrity	0.5436	-0.02	3.63	-10.60	No Trend
CB6.1	Total Abundance per square meter	0.0100	75.26	1488.24	101.14	Improving
CB6.1	Total Biomass per square meter	0.2255	-0.12	10.82	-21.70	No Trend
CB6.1	Shannon-Weiner Diversity Index	0.1297	0.02	2.64	14.48	No Trend
CB6.1	Pollution Sensitive Species Abundance	0.5959	-0.43	34.86	-24.59	No Trend
CB6.1	Pollution Indicative Species Abundance	0.0153	0.88	16.08	109.75	Degrading
CB6.1	Pollution Sensitive Species Biomass	0.0814	-1.56	43.49	-71.78	Degrading
CB6.1	Pollution Indicative Species Biomass	0.0339	0.78	1.70	917.88	Degrading
CB6.4	Benthic Index of Biotic Integrity	0.8794	-0.01	4.47	-3.30	No Trend
CB6.4	Total Abundance per square meter	0.0280	188.10	1640.88	229.26	Improving
CB6.4	Total Biomass per square meter	0.0445	-0.19	5.35	-70.80	Degrading
CB6.4	Shannon-Weiner Diversity Index	0.0408	0.03	2.94	19.26	Improving
CB6.4	Pollution Sensitive Species Abundance	0.8796	-0.09	49.63	-3.51	No Trend
CB6.4	Pollution Indicative Species Abundance	0.6494	-0.26	16.91	-31.33	No Trend
CB6.4	Pollution Sensitive Species Biomass	0.1297	-1.43	83.36	-34.24	No Trend
CB6.4	Pollution Indicative Species Biomass	0.4954	0.16	1.39	225.54	No Trend
CB7.3E	Benthic Index of Biotic Integrity	0.6743	0.00	4.22	-1.27	No Trend
CB7.3E	Total Abundance per square meter	0.7330	-16.54	5495.04	-6.02	No Trend
CB7.3E	Total Biomass per square meter	0.1393	-0.30	12.91	-45.80	No Trend
CB7.3E	Shannon-Weiner Diversity Index	0.9396	0.00	3.72	0.48	No Trend
CB7.3E	Pollution Sensitive Species Abundance	0.5445	-0.22	50.28	-8.75	No Trend
CB7.3E	Pollution Indicative Species Abundance	0.0956	-0.49	13.62	-72.32	Improving
CB7.3E	Pollution Sensitive Species Biomass	0.8796	-0.13	63.36	-4.01	No Trend
CB7.3E	Pollution Indicative Species Biomass	0.5445	-0.03	1.30	-52.51	No Trend
CB8.1	Benthic Index of Biotic Integrity	0.4738	-0.01	4.35	-4.74	No Trend
CB8.1	Total Abundance per square meter	0.2428	63.83	3129.12	40.80	No Trend
CB8.1	Total Biomass per square meter	0.4362	-0.24	12.22	-39.40	No Trend
CB8.1	Shannon-Weiner Diversity Index	0.1944	0.02	3.79	9.07	No Trend
CB8.1	Pollution Sensitive Species Abundance	0.1194	-0.59	55.49	-21.19	No Trend
CB8.1	Pollution Indicative Species Abundance	0.0274	-0.84	18.00	-93.28	Improving
CB8.1	Pollution Sensitive Species Biomass	0.0231	-1.67	83.43	-40.05	Degrading
CB8.1	Pollution Indicative Species Biomass	0.4362	-0.04	1.07	-78.94	No Trend

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# TF5.5 (1-J)

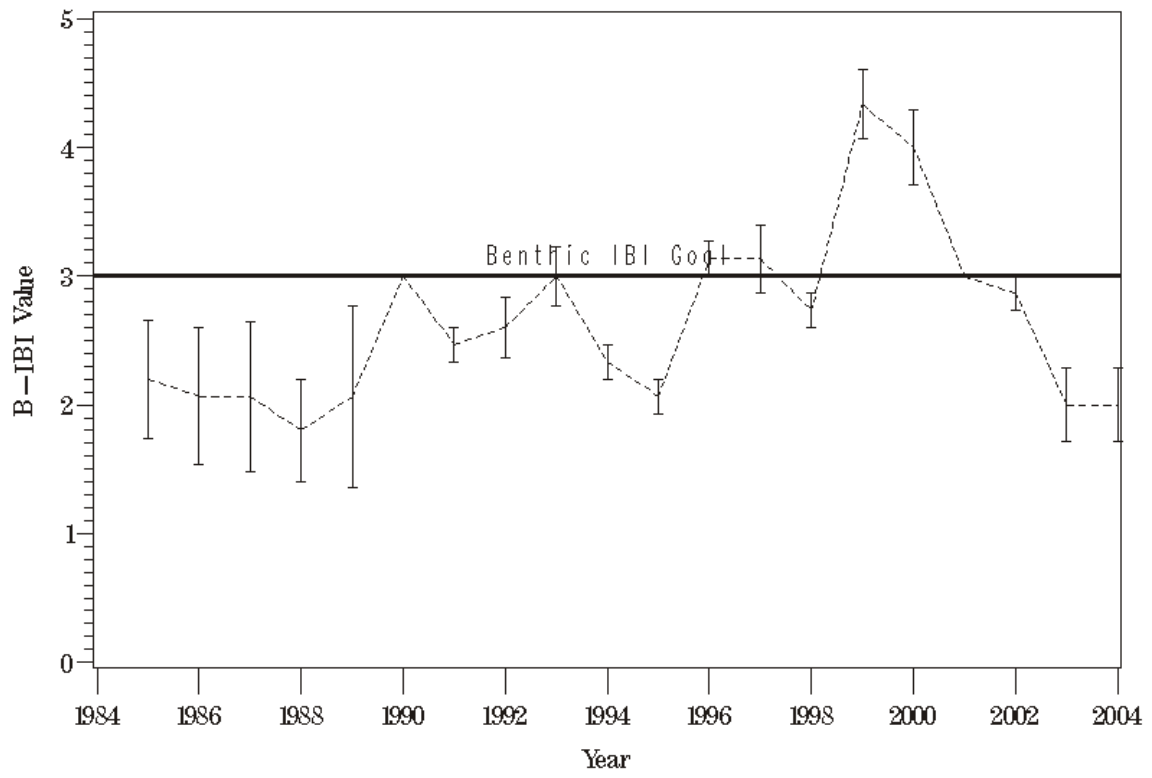


Figure L1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2004.

## TF5.5 (1-J)

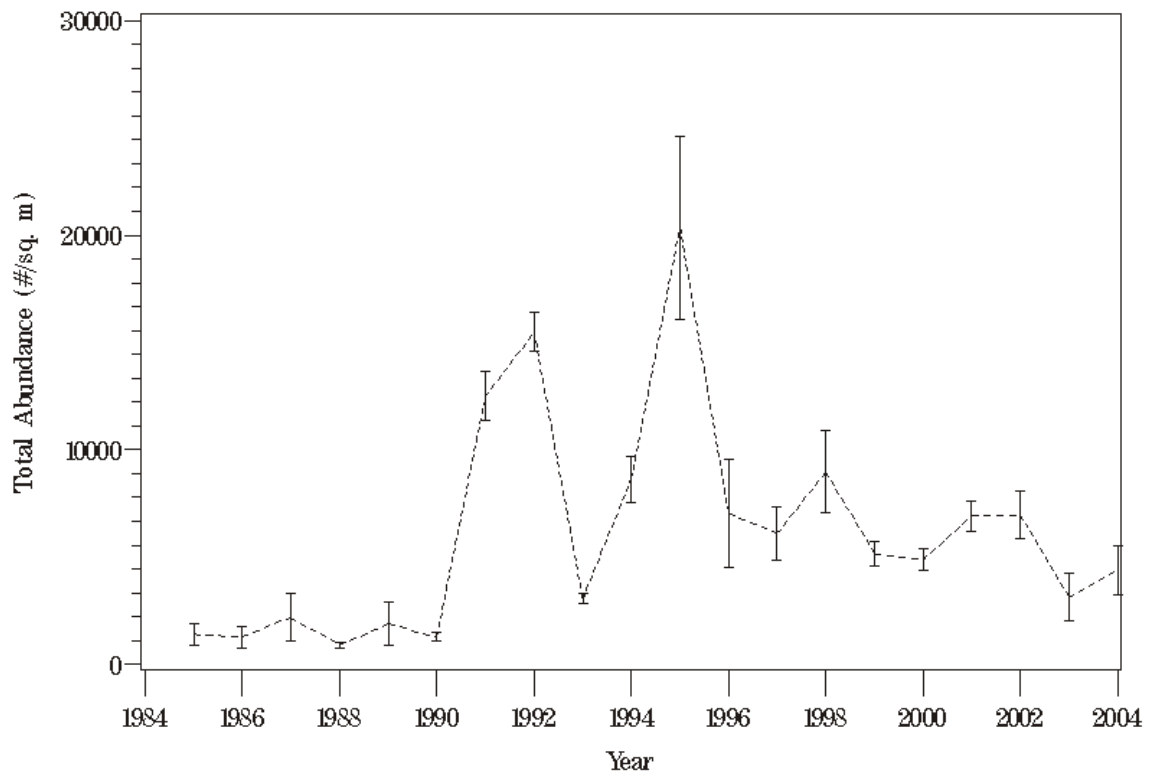


Figure L2. Plot of total benthic community abundance at station TF5.5 for 1985 through 2004.

# TF5.5 (1-J)

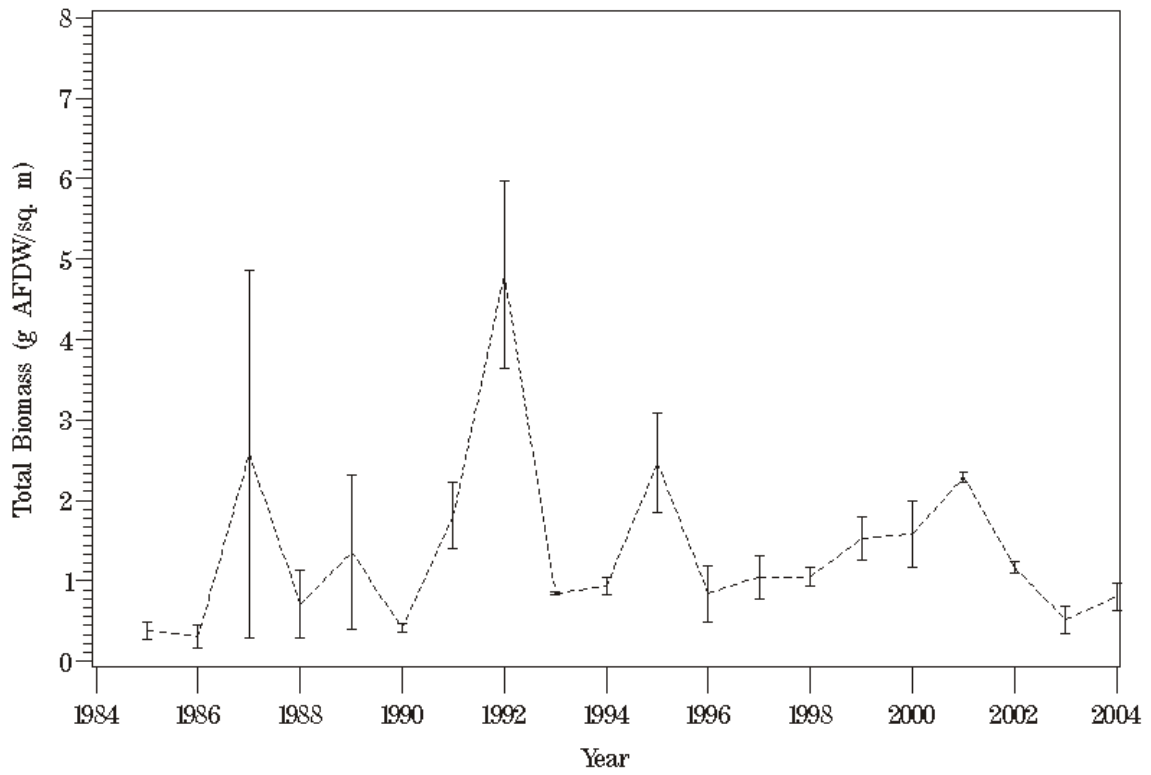


Figure L3. Plot of total benthic community biomass at station TF5.5 for 1985 through 2004.

## TF5.5 (1-J)

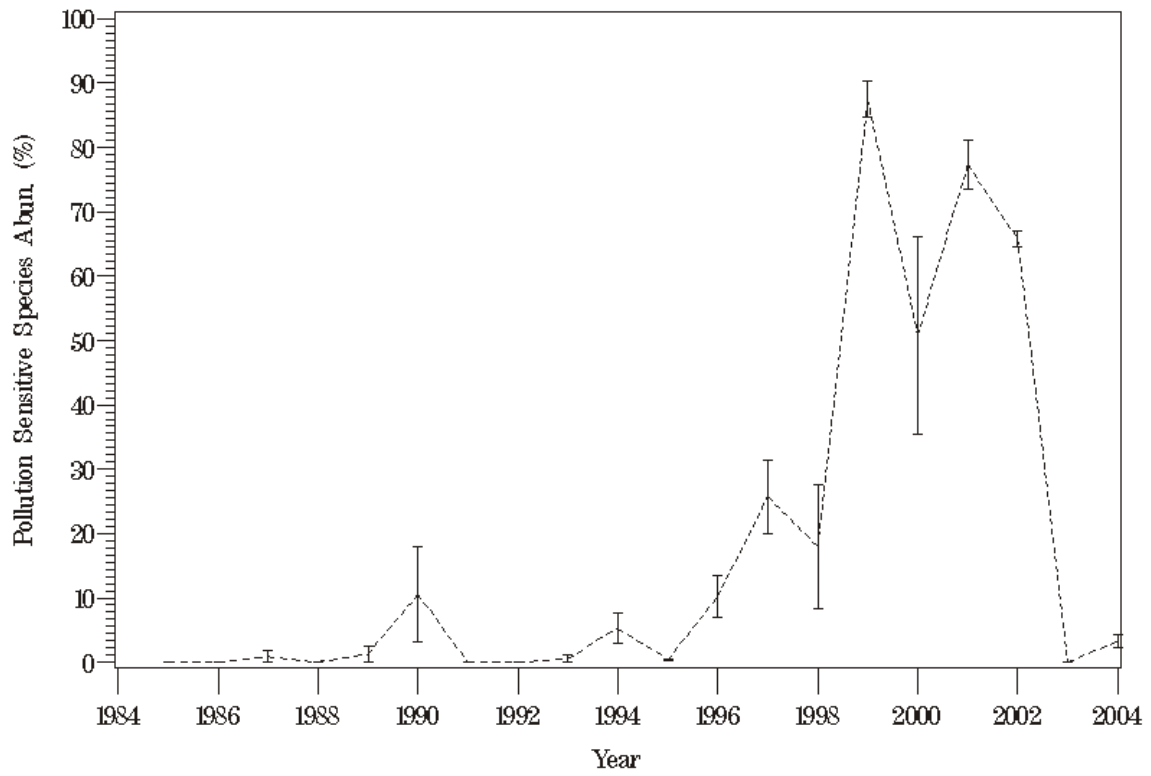


Figure L4. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2004.

## TF5.5 (1-J)

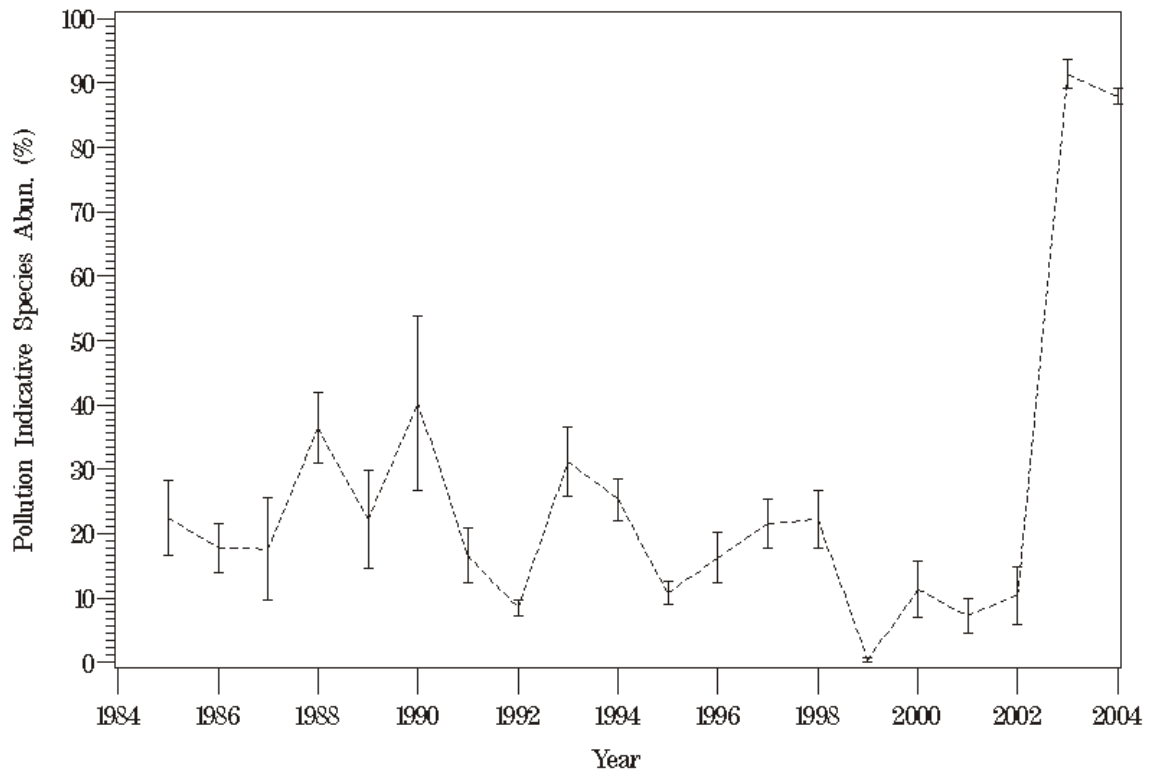


Figure L5. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2004.



## TF5.5 (1-J)

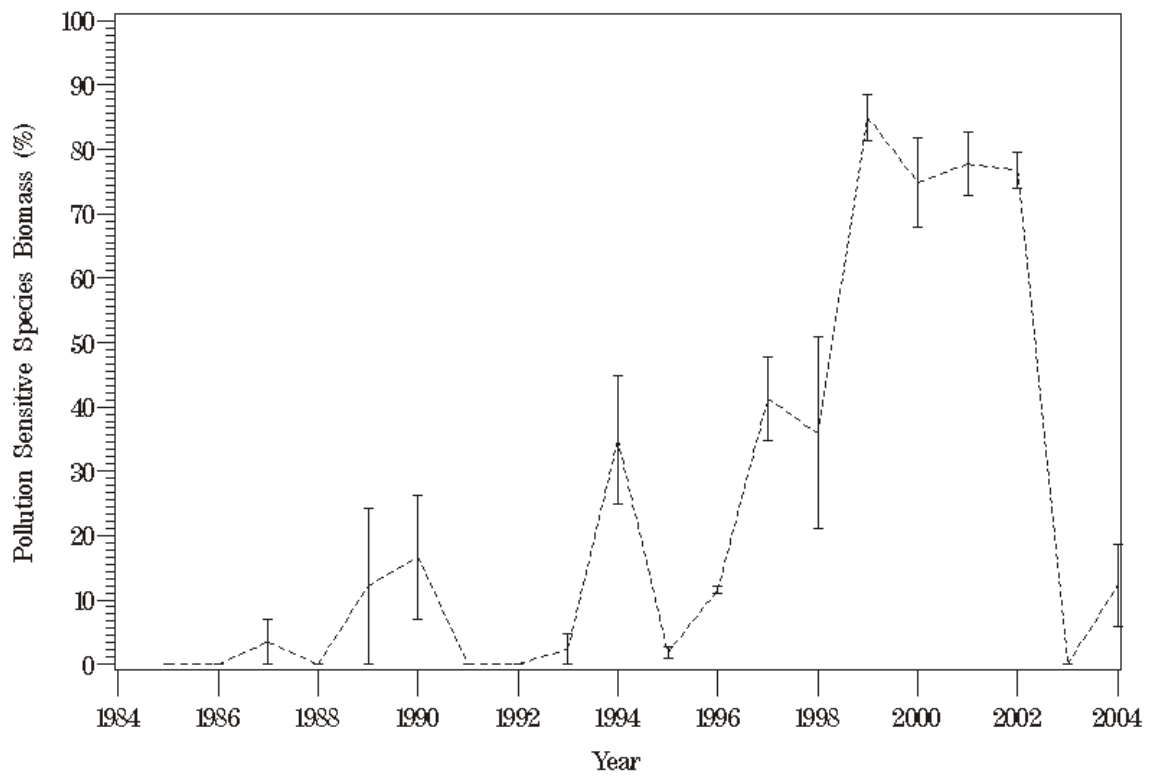


Figure L6. Plot of pollution sensitive species biomass at station TF5.5 for 1985 through 2004.

## TF5.5 (1-J)

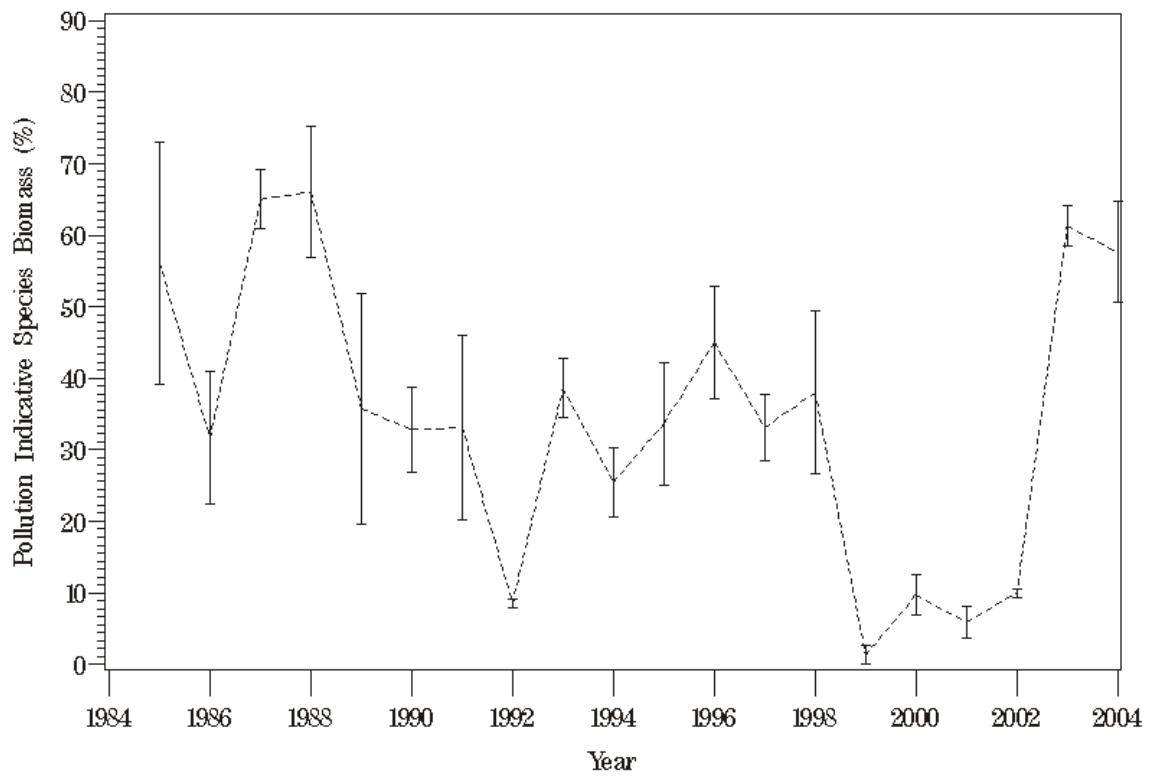


Figure L7. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2004.

### TF5.5 (1-J)

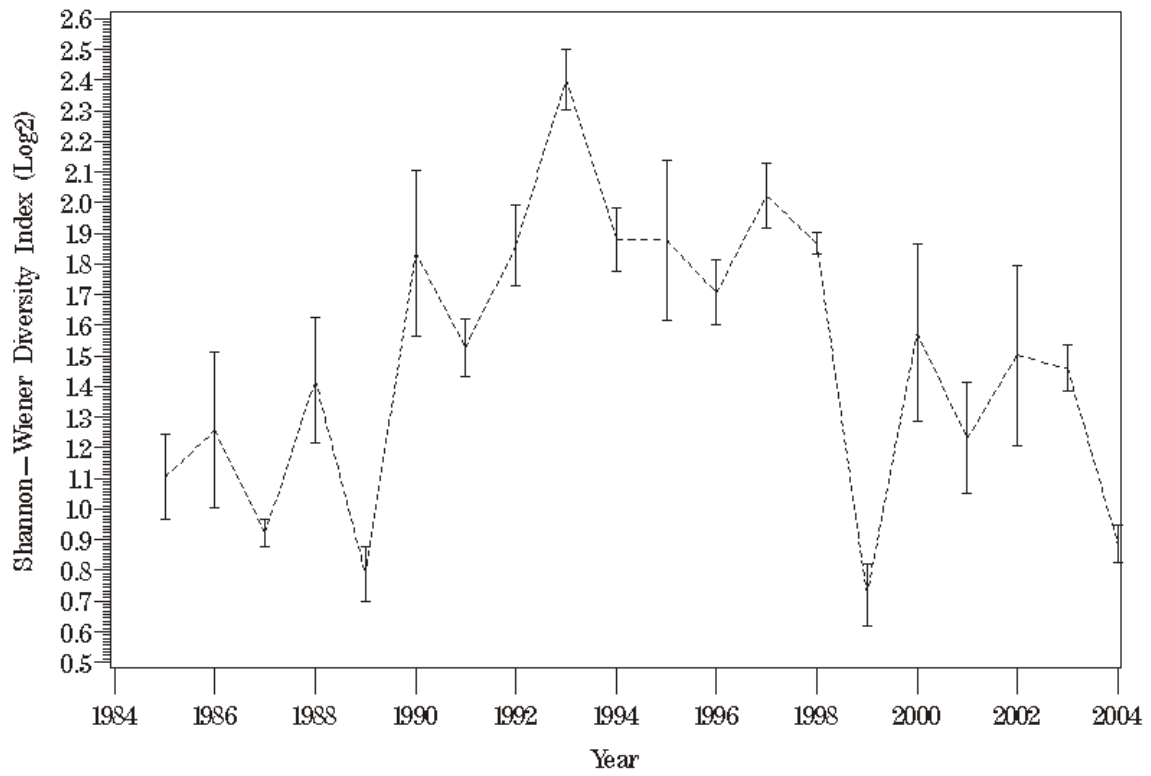


Figure L8. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2004.

## RET5.2 (2-J)

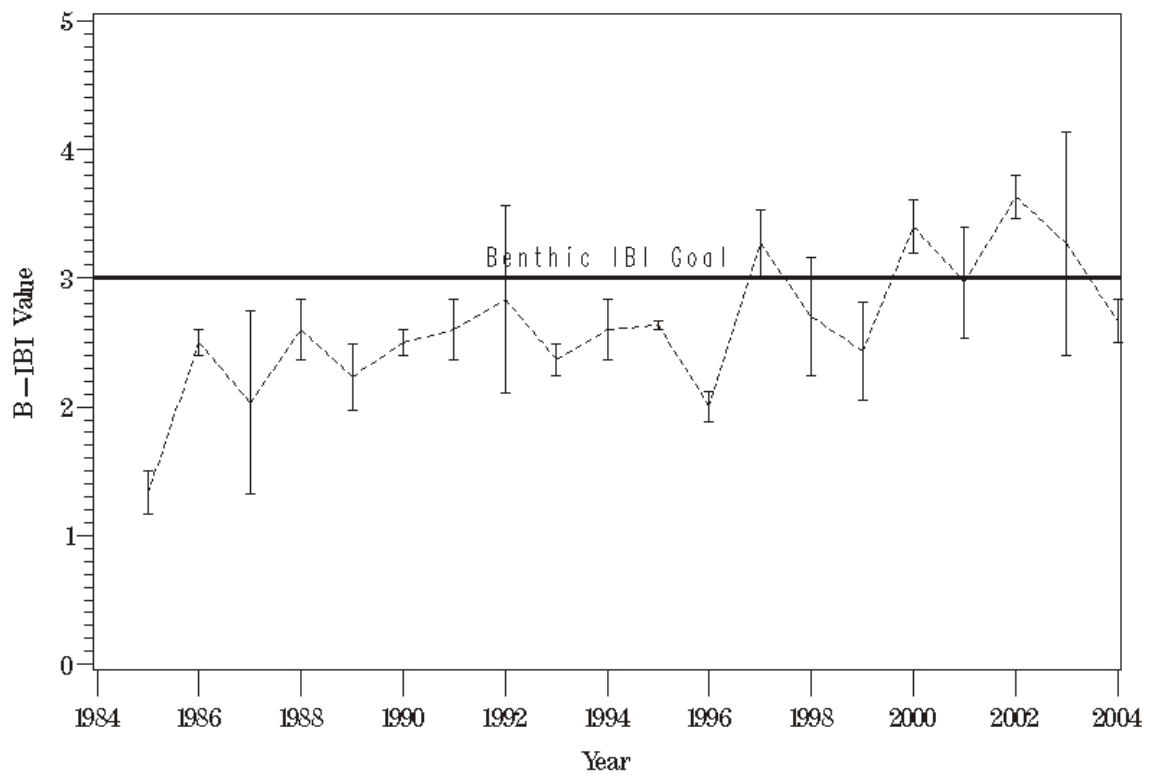


Figure L9. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

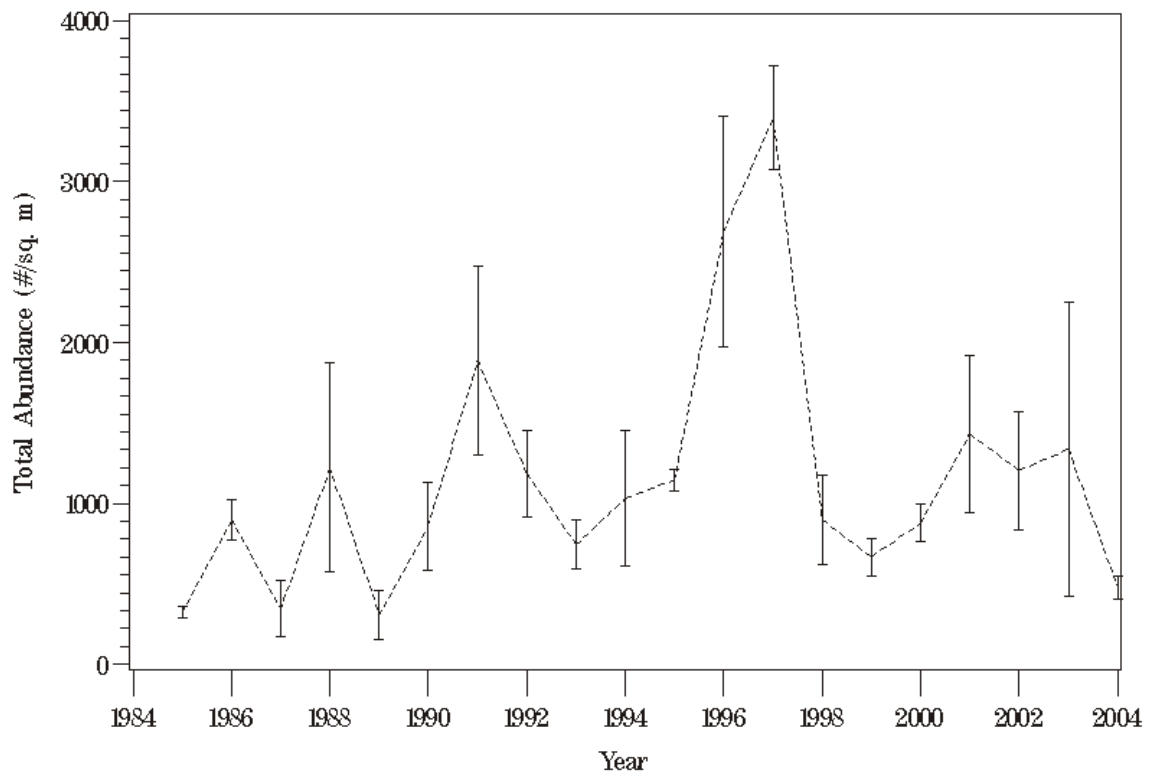


Figure L10. Plot of total benthic community abundance at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

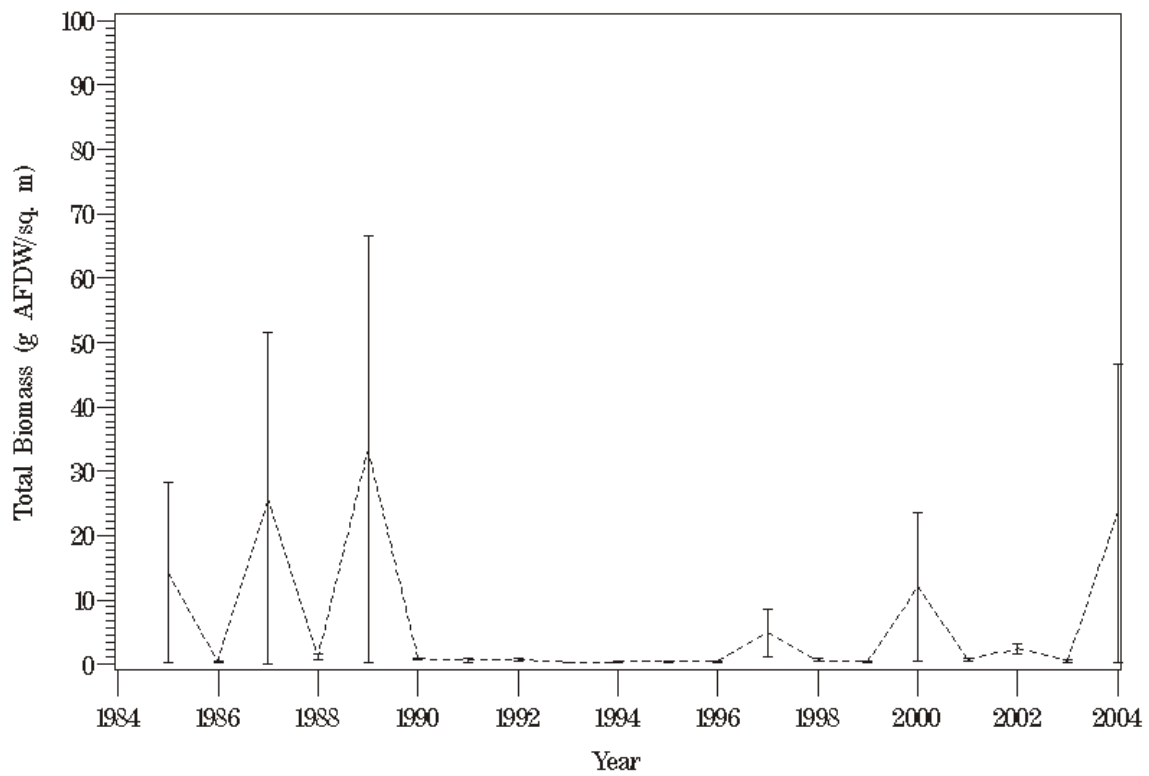


Figure L11. Plot of total benthic community biomass at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

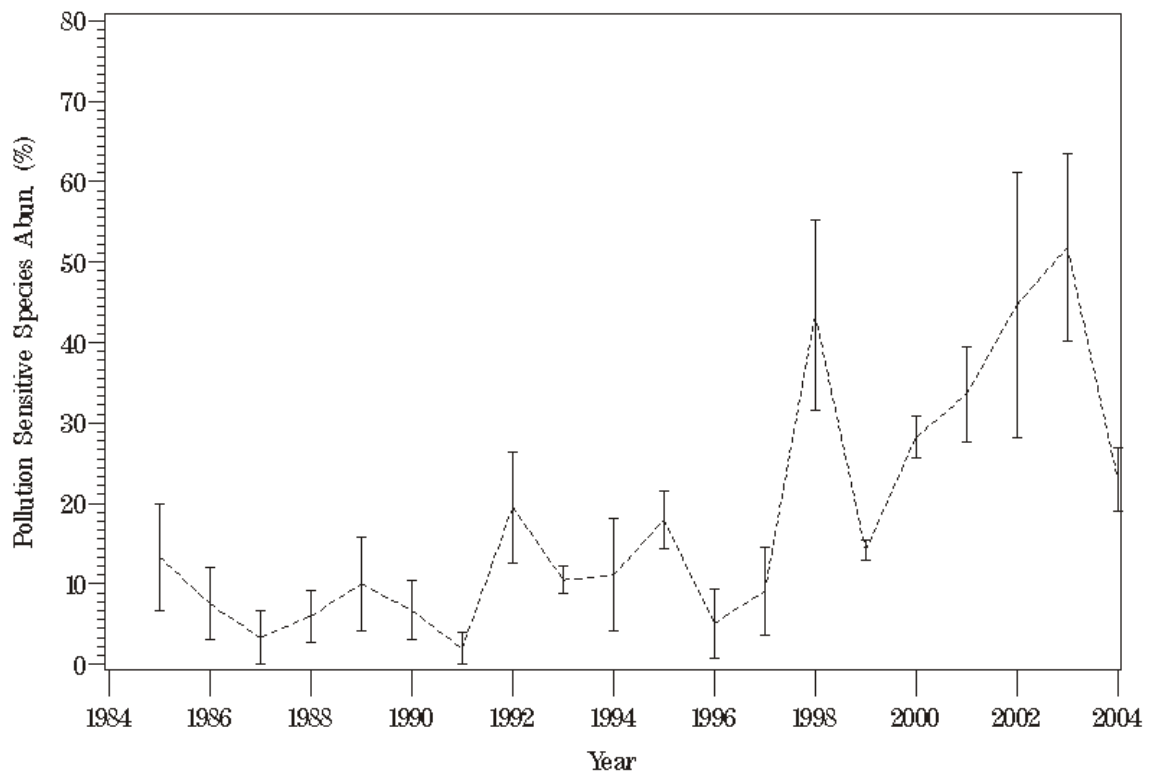


Figure L12. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

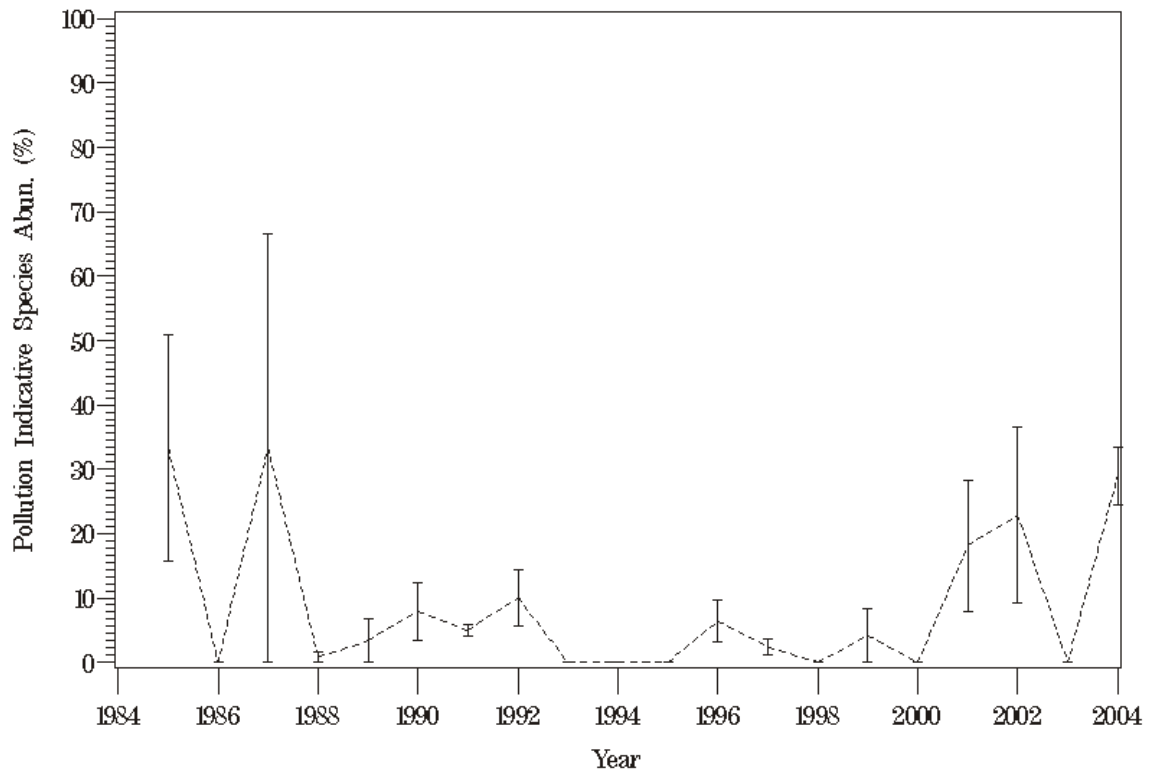


Figure L13. Plot of pollution indicative species abundance at station RET5.2 for 1985 through 2004.



## RET5.2 (2-J)

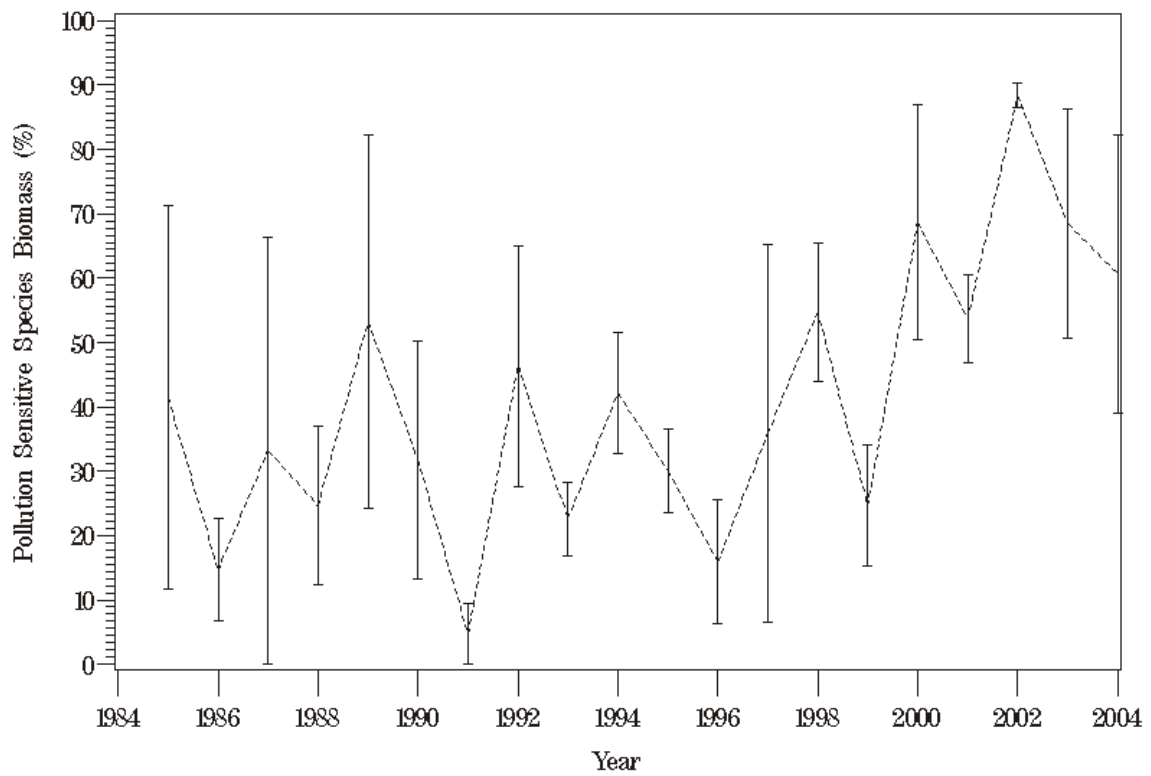


Figure L14. Plot of pollution sensitive species biomass at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

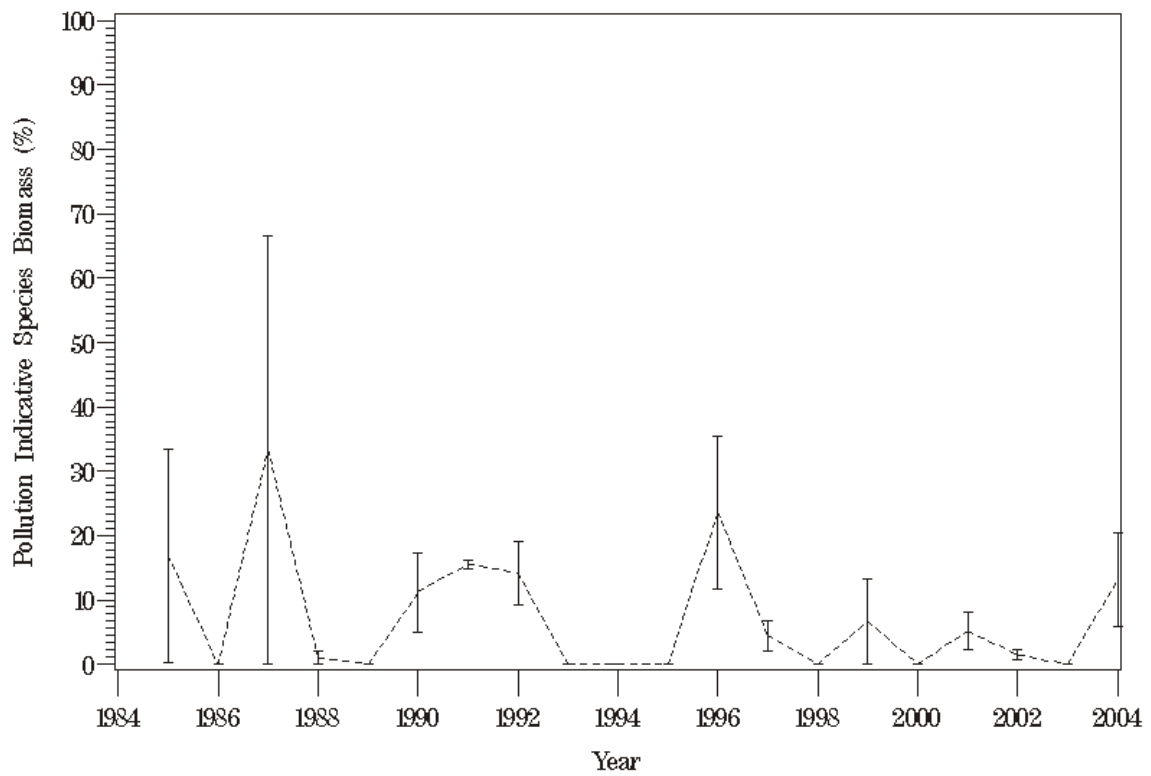


Figure L15. Plot of pollution indicative species biomass at station RET5.2 for 1985 through 2004.

## RET5.2 (2-J)

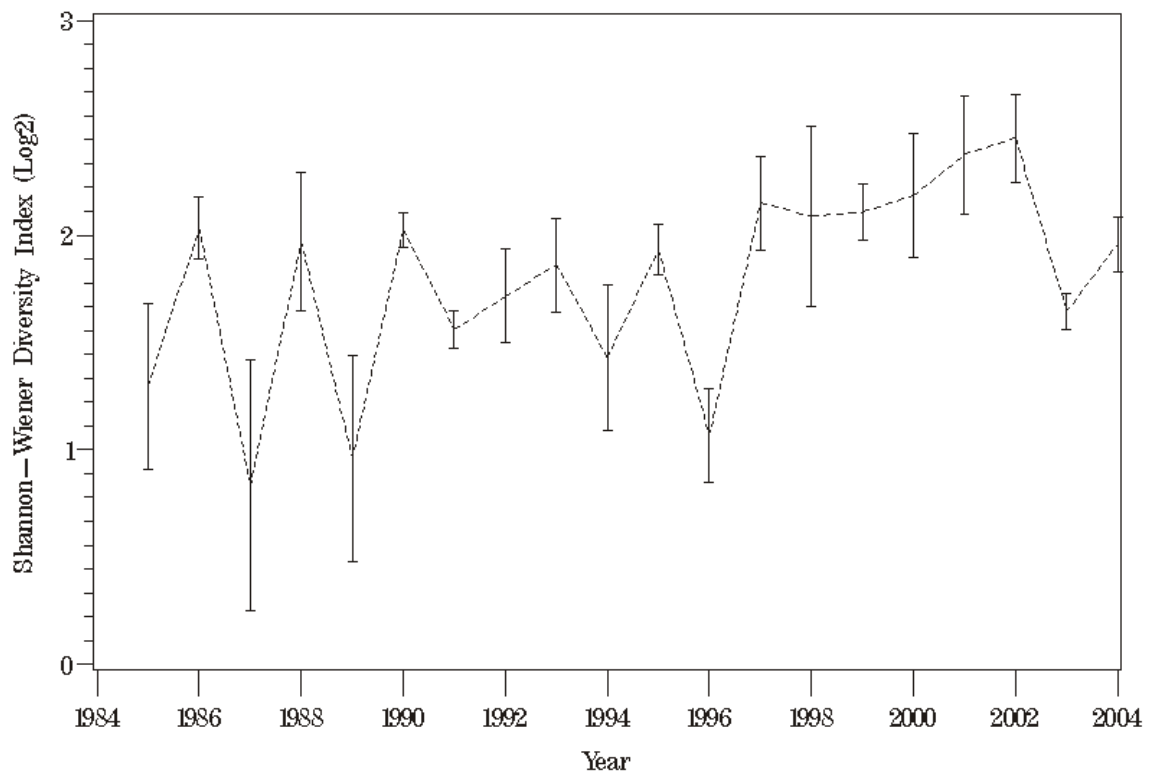


Figure L16. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2004.

# LE5.1 (2-JA)

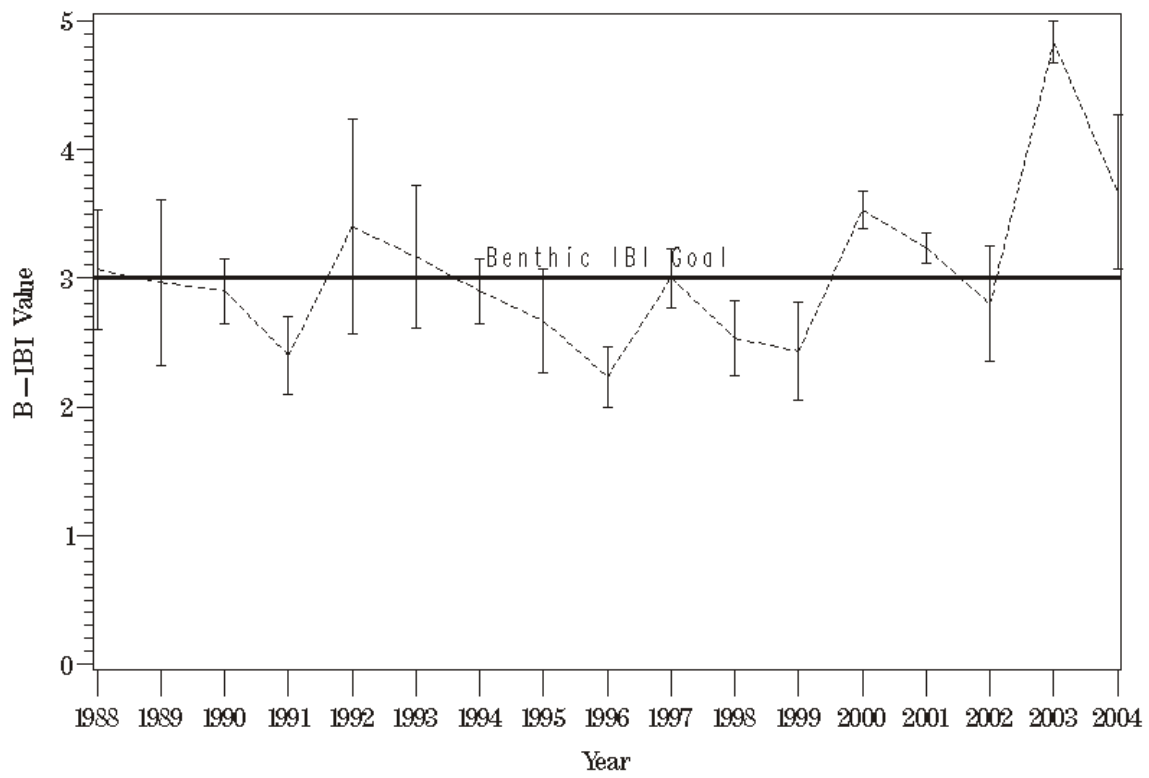


Figure L17. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2004.

## LE5.1 (2-JA)

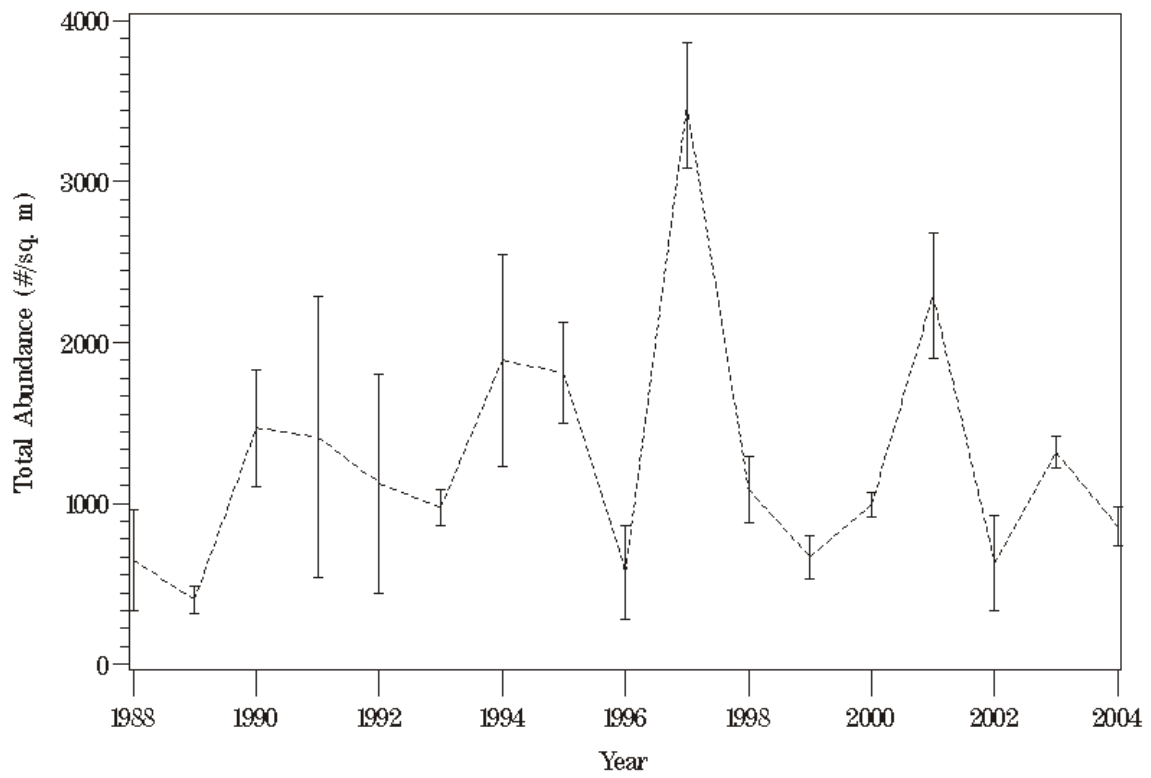


Figure L18. Plot of total benthic community abundance at station LE5.1 for 1985 through 2004.

## LE5.1 (2-JA)

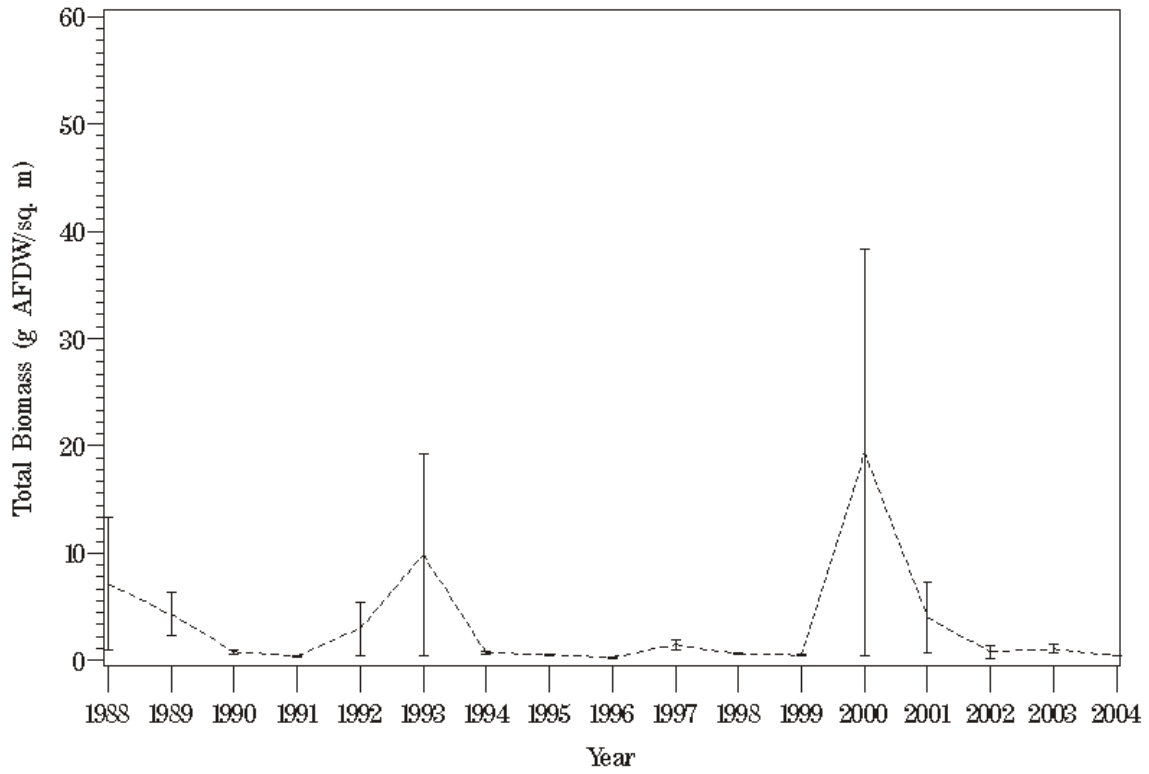


Figure L19. Plot of total benthic community biomass at station LE5.1 for 1985 through 2004.

# LE5.1 (2-JA)

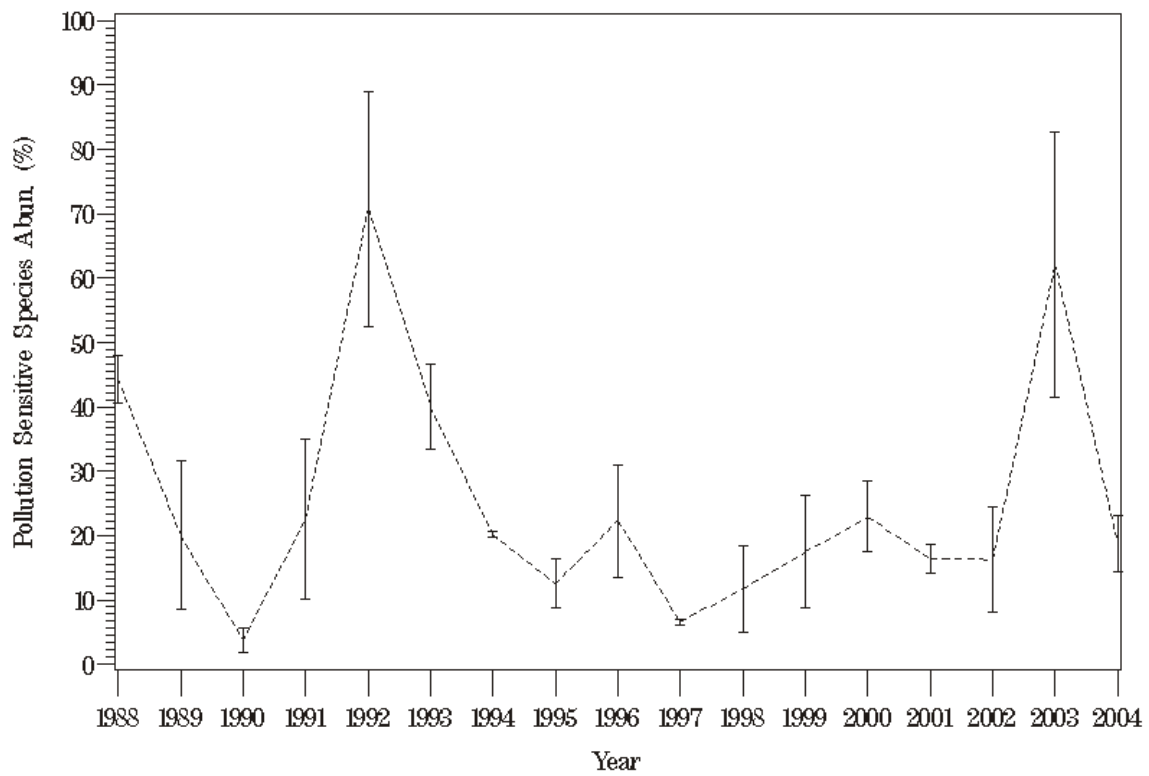


Figure L20. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2004.

## LE5.1 (2-JA)

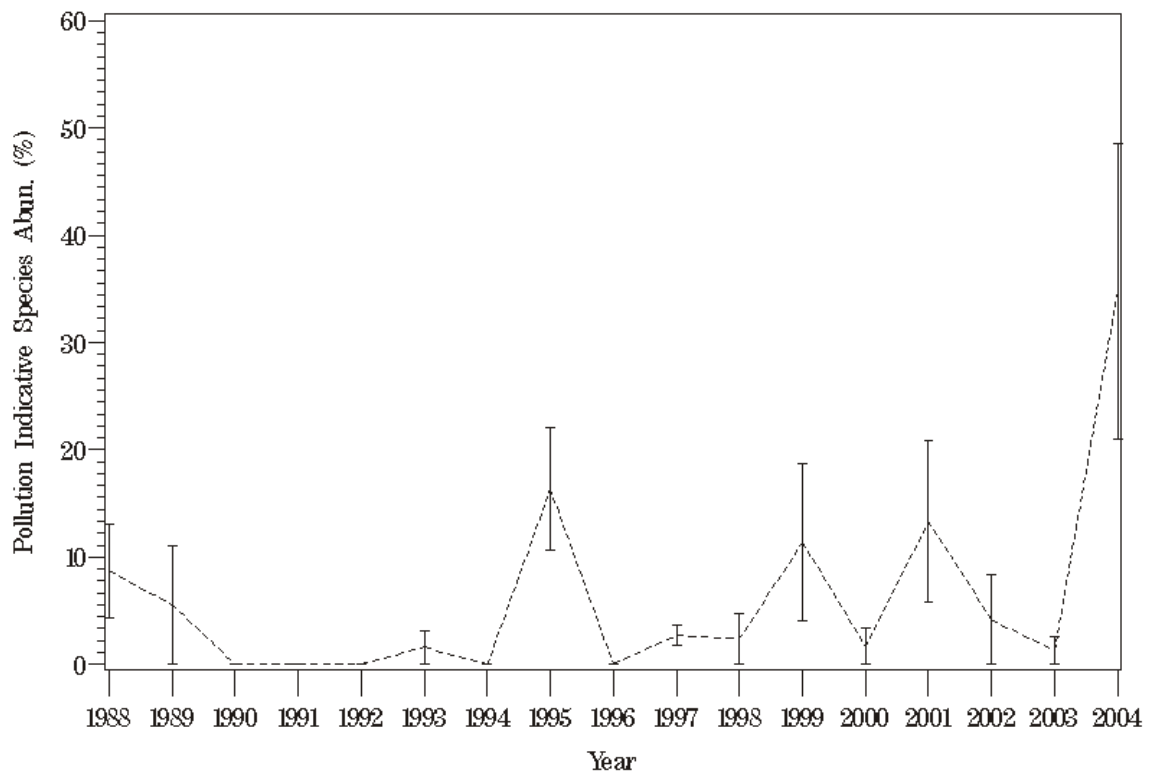


Figure L21. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2004.



## LE5.1 (2-JA)

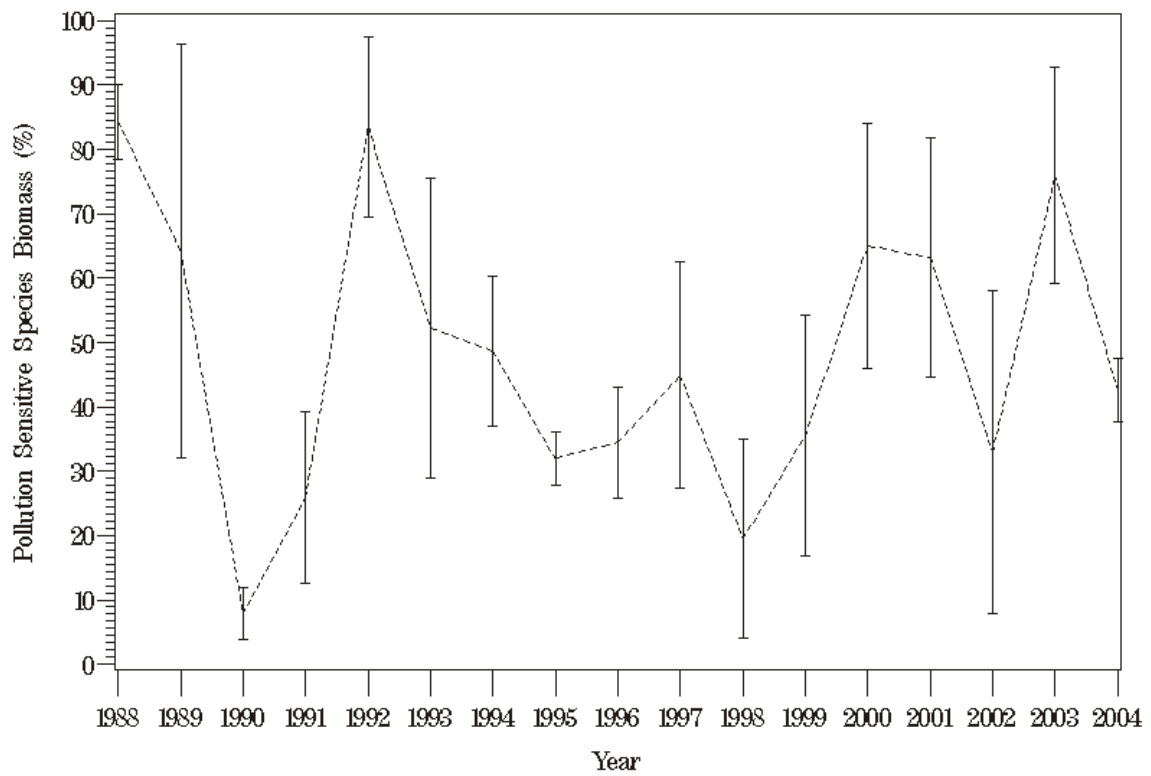


Figure L22. Plot of pollution sensitive species biomass at station LE5.1 for 1985 through 2004.

# LE5.1 (2-JA)

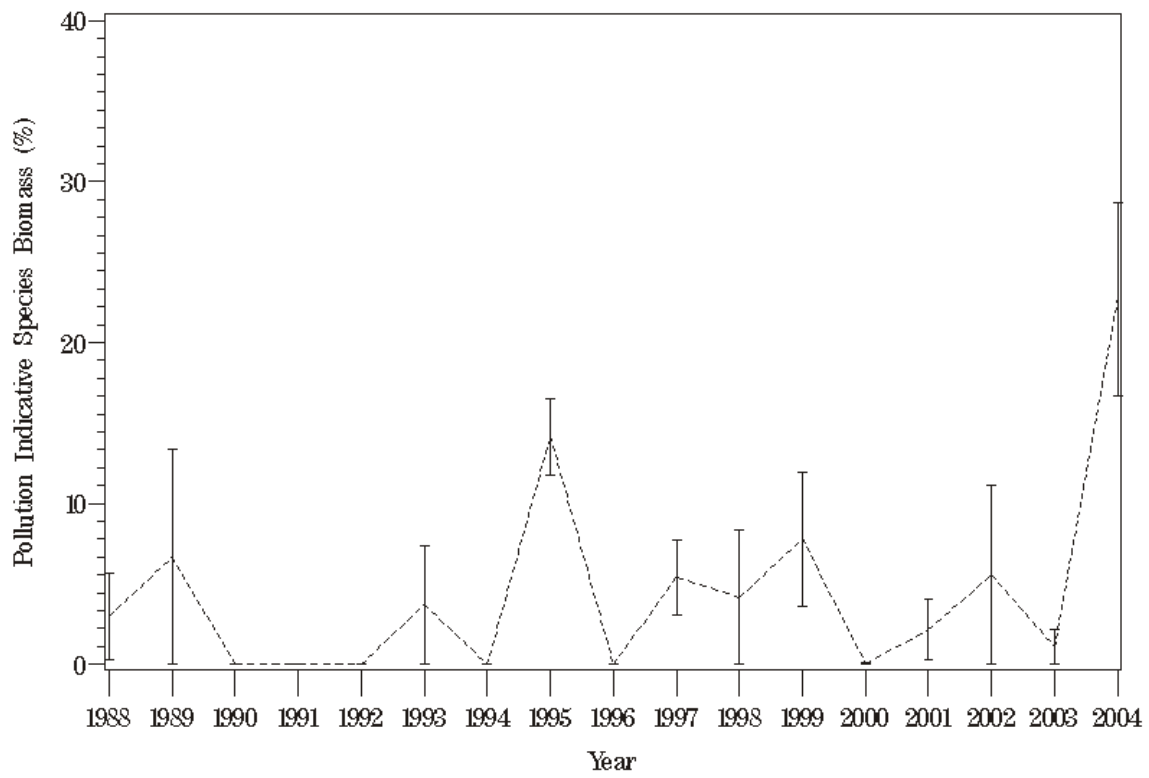


Figure L23. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2004.

## LE5.1 (2-JA)

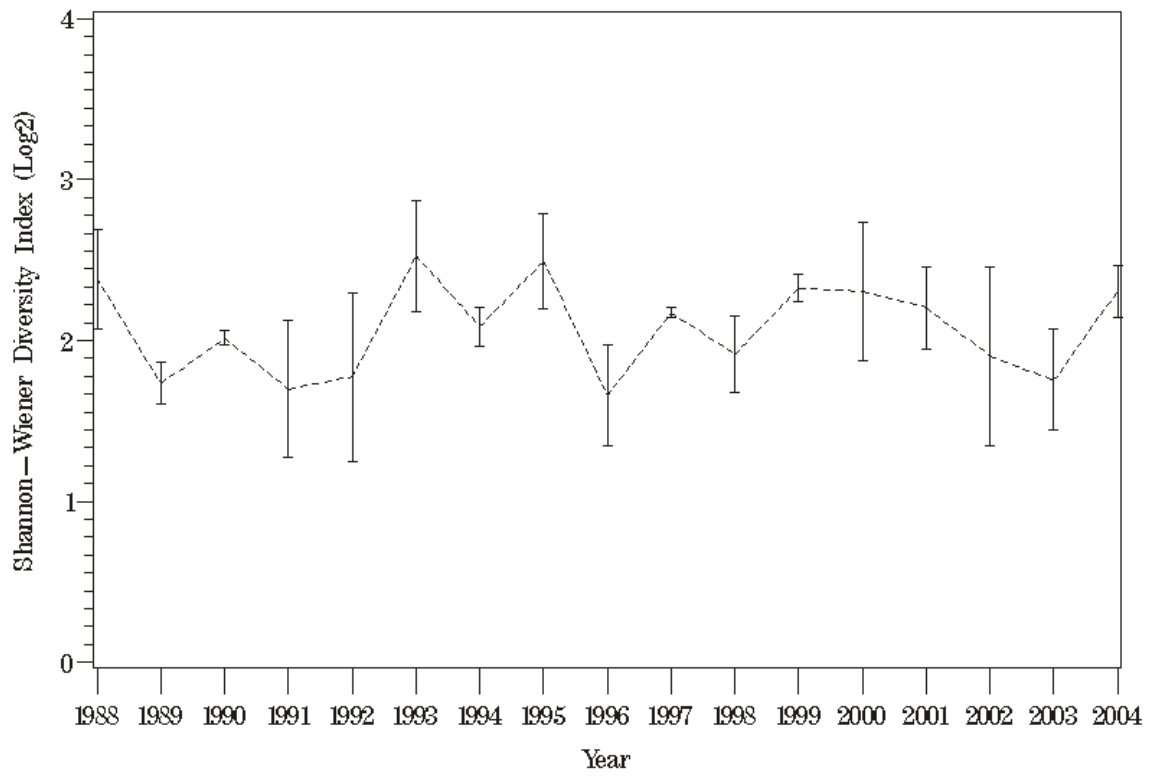


Figure L24. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2004.

## LE5.2 (3-J)

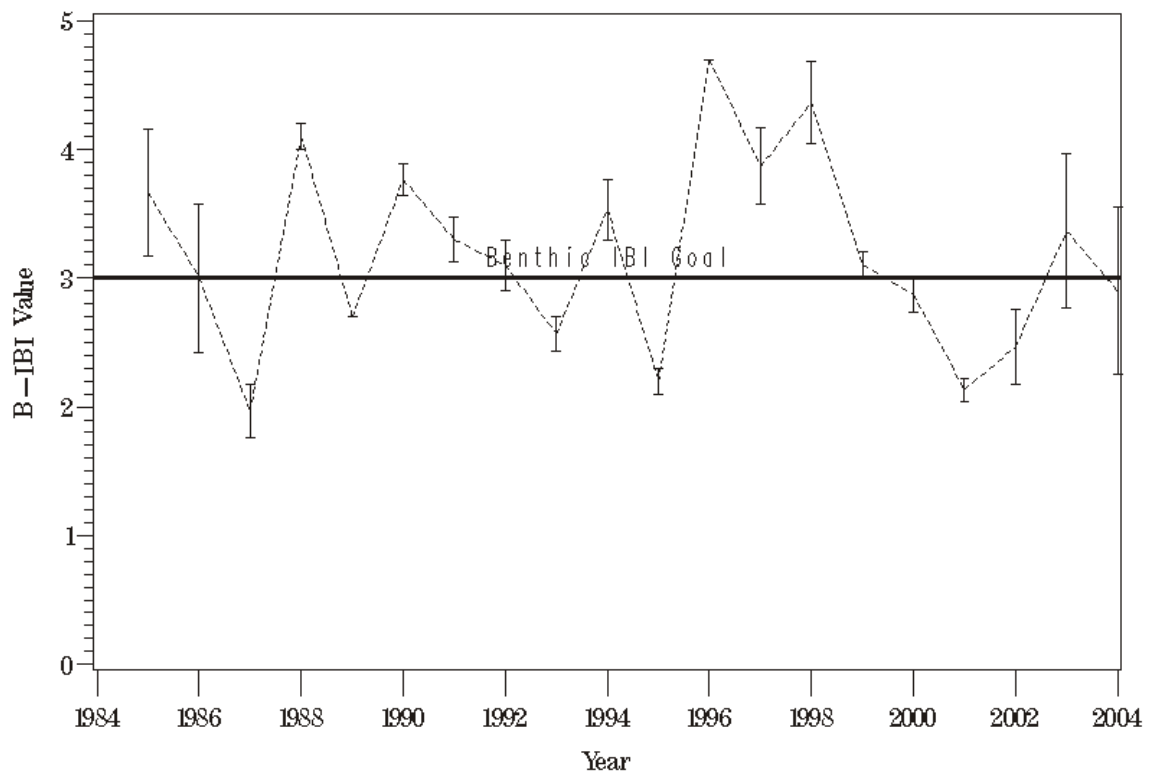


Figure L25. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

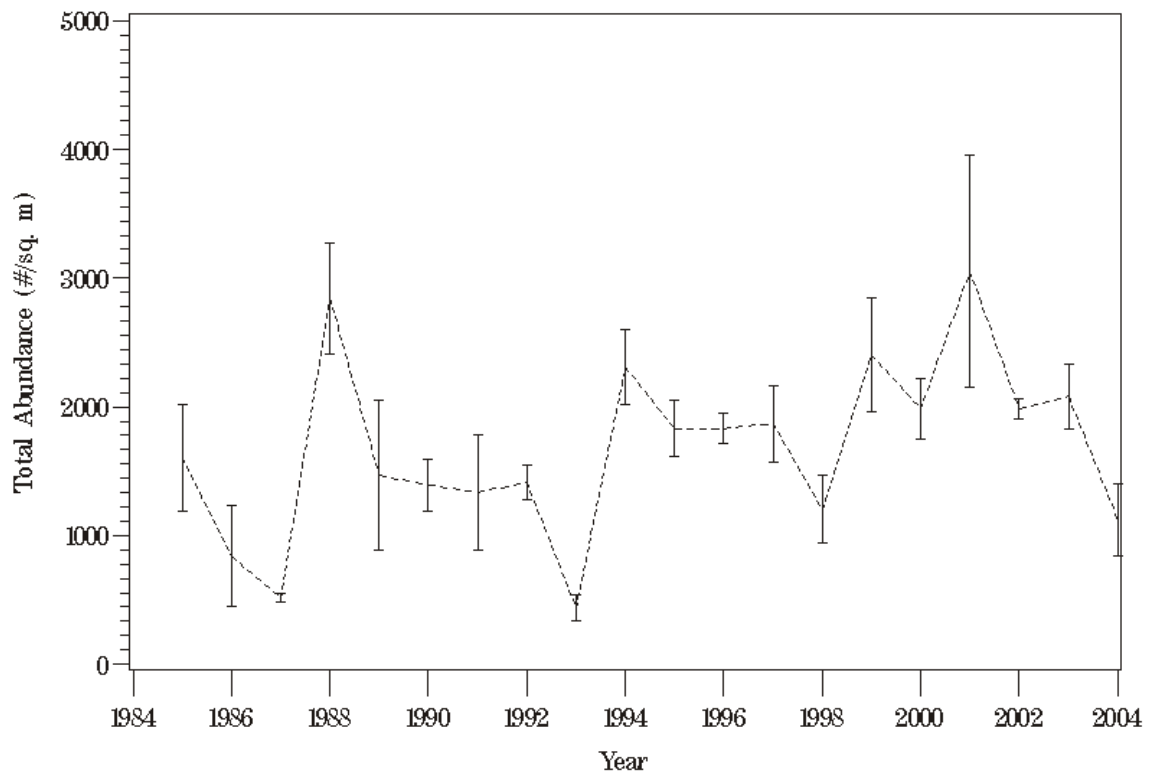


Figure L26. Plot of total benthic community abundance at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

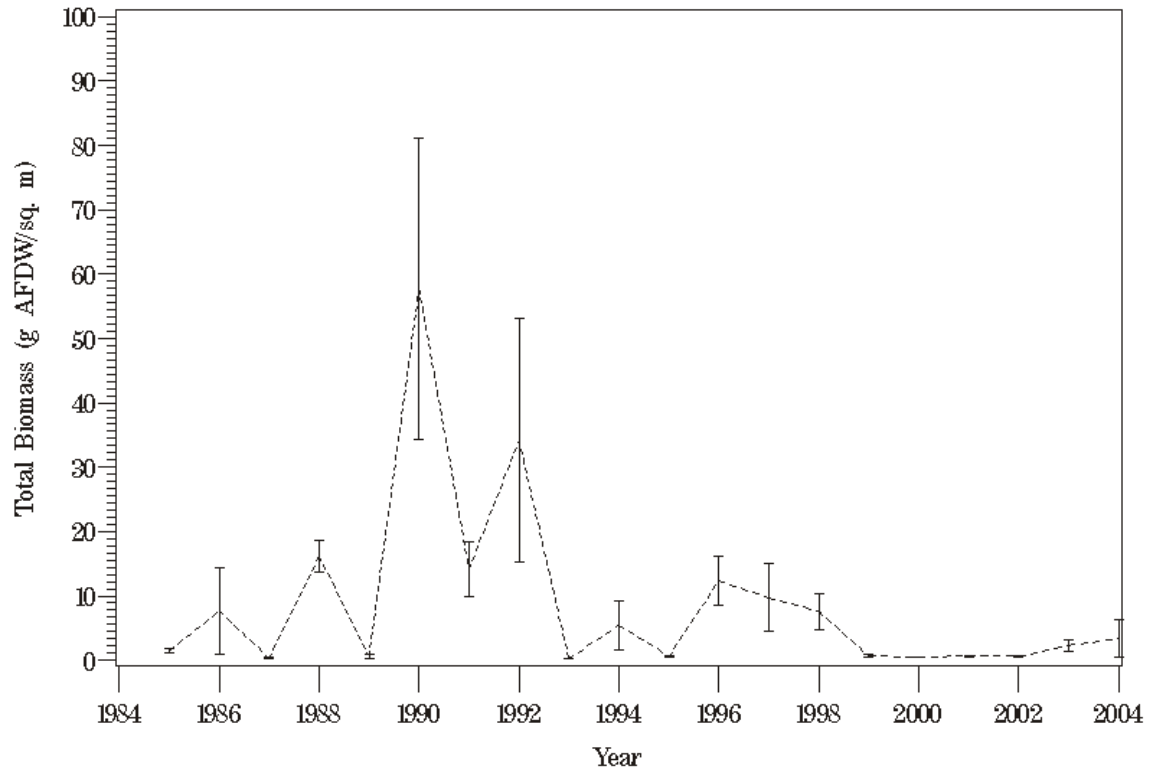


Figure L27. Plot of total benthic community biomass at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

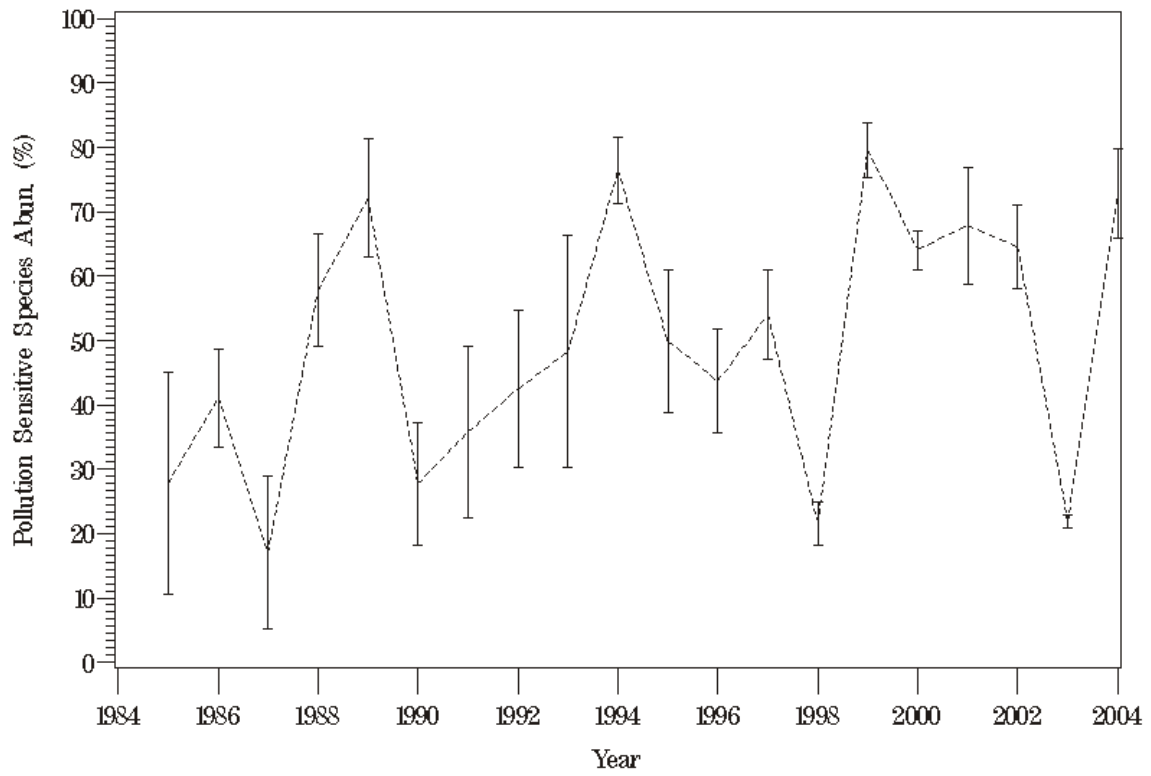


Figure L28. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

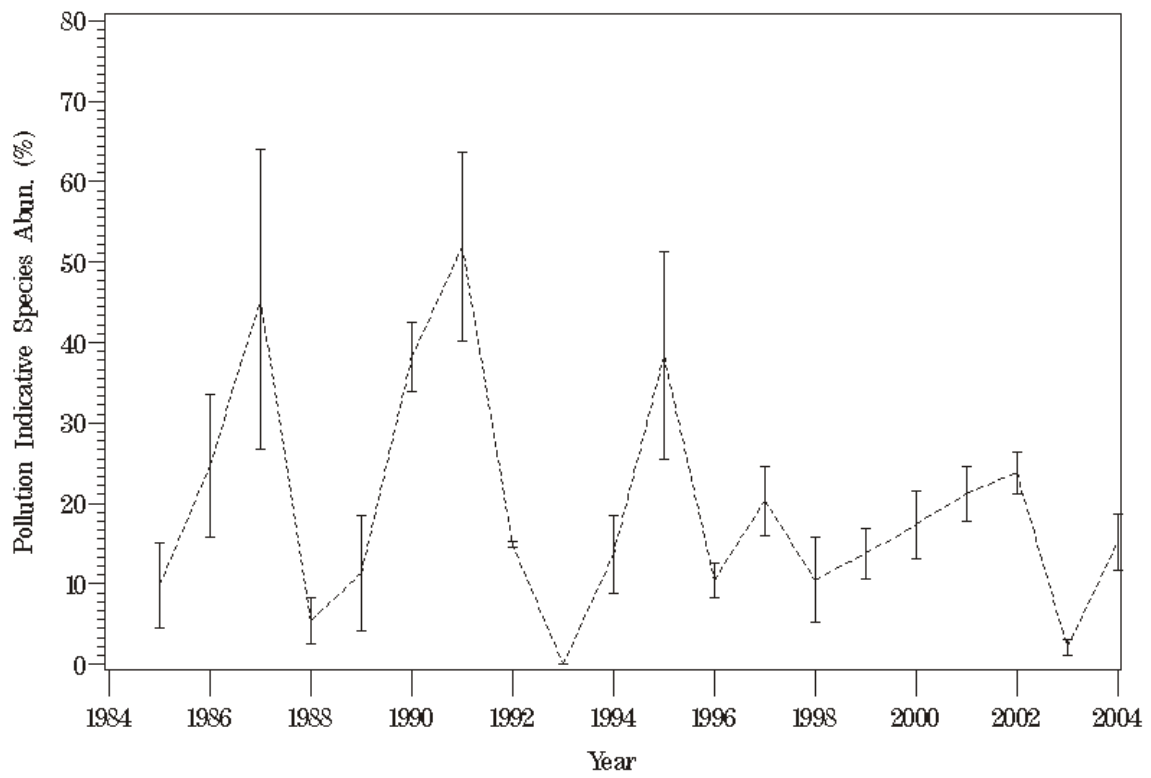


Figure L29. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2004.



### LE5.2 (3-J)

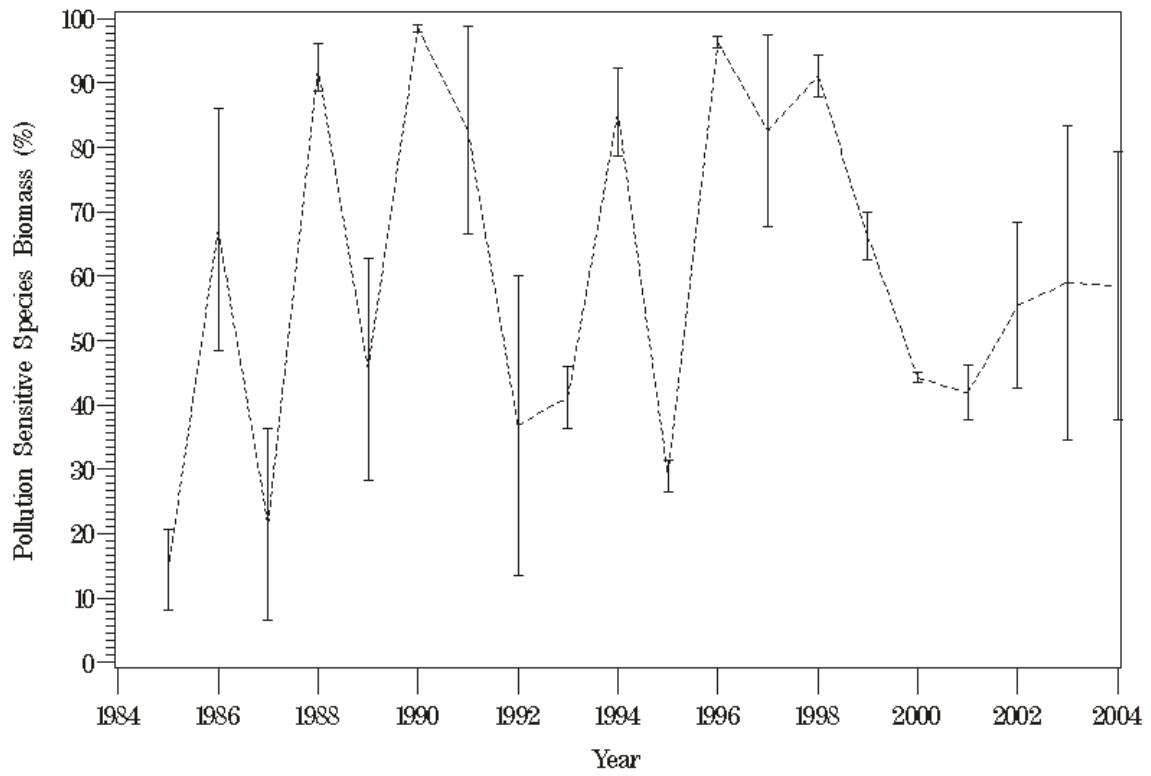


Figure L30. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

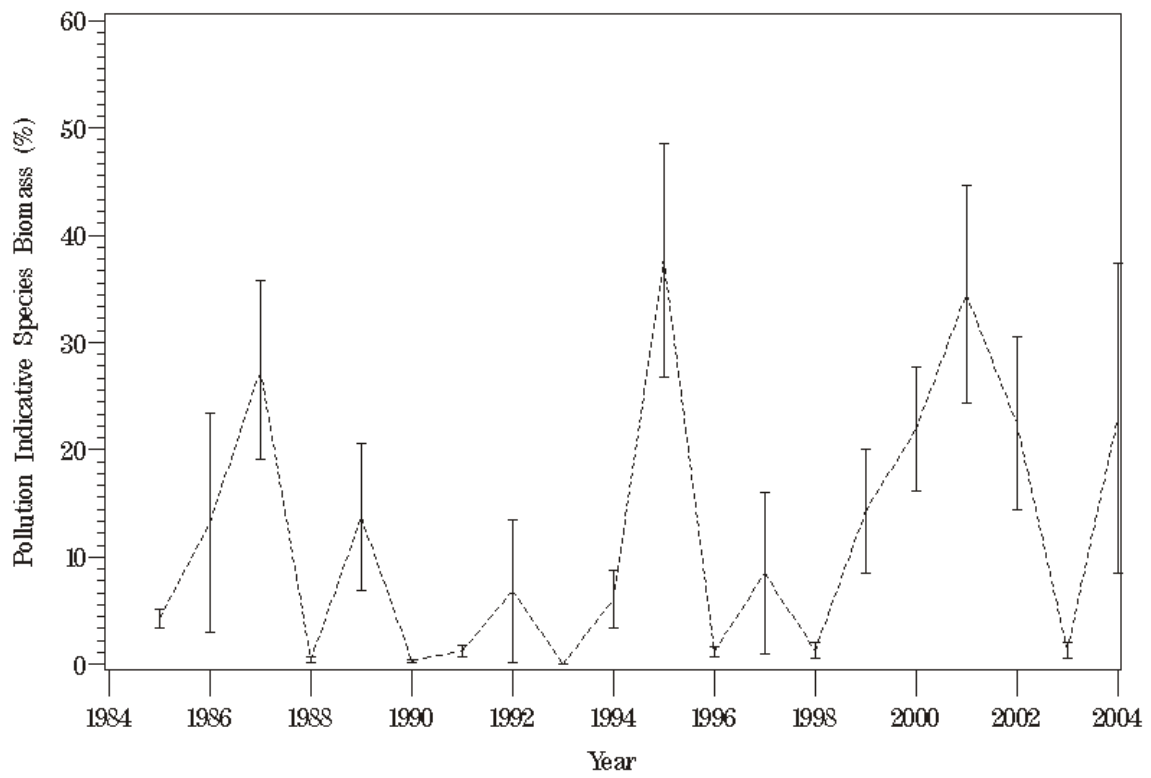


Figure L31. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2004.

## LE5.2 (3-J)

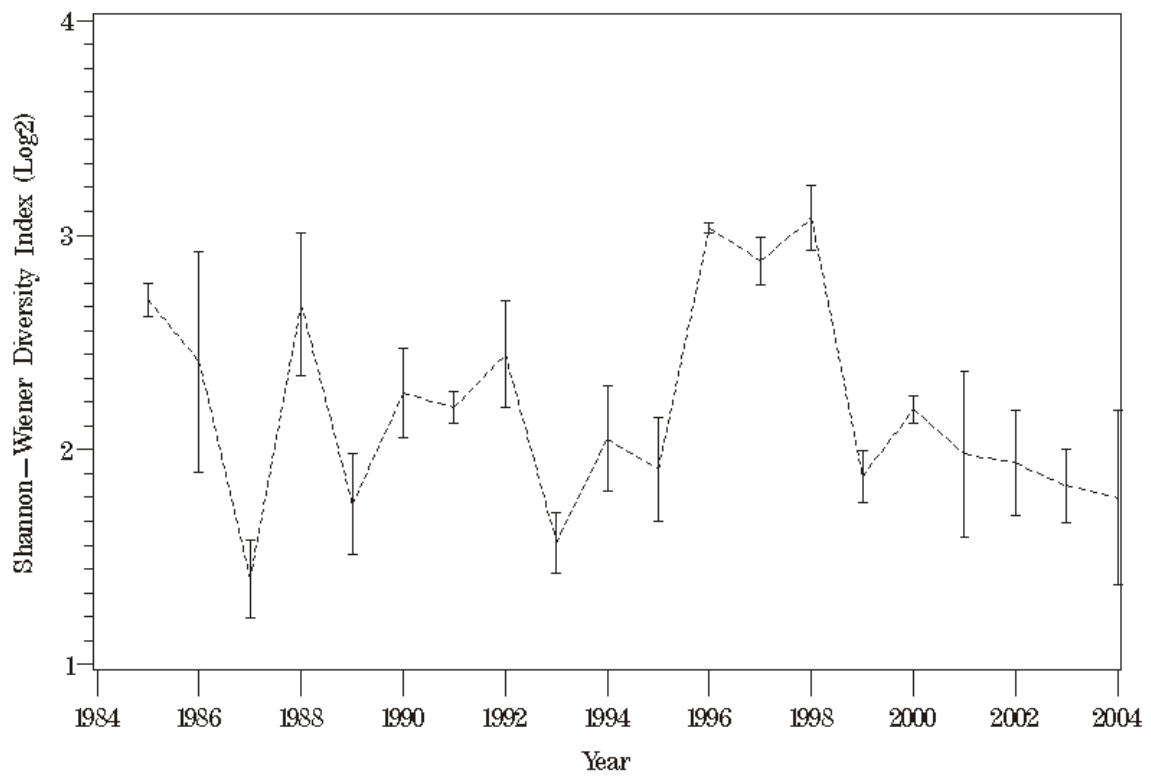


Figure L32. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2004.

# LE5.4 (4-J)

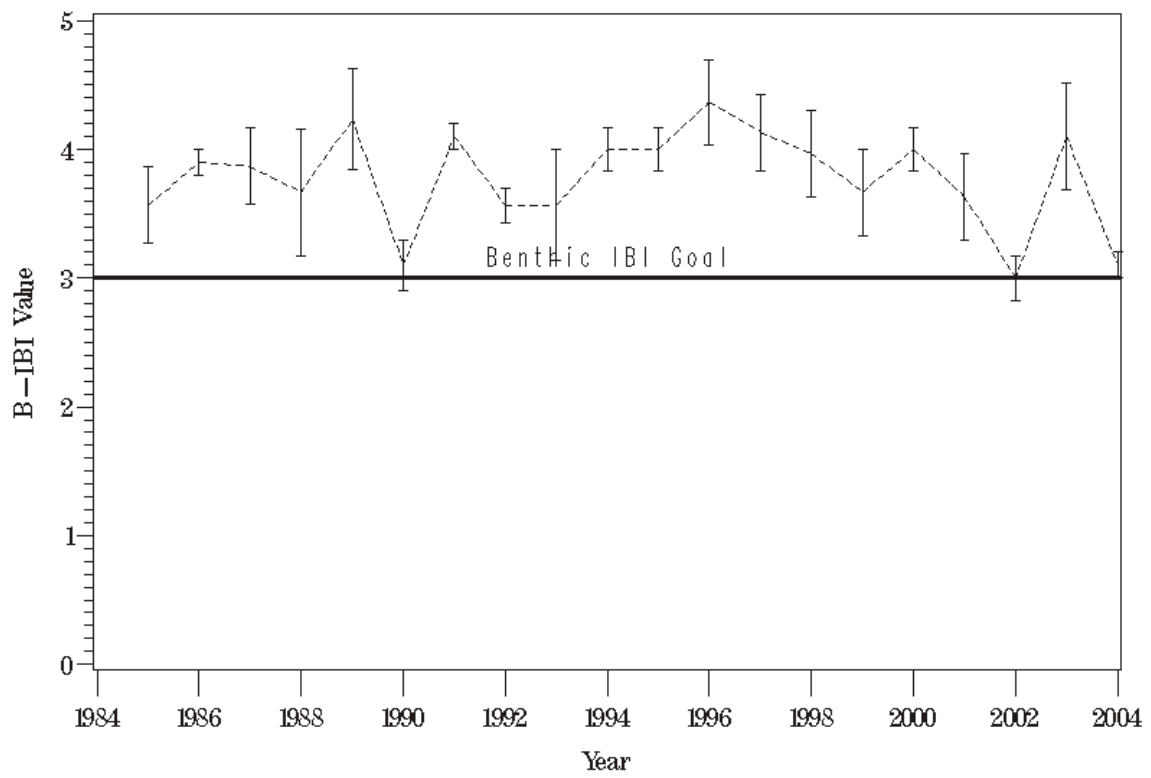


Figure L33. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2004.

## LE5.4 (4-J)

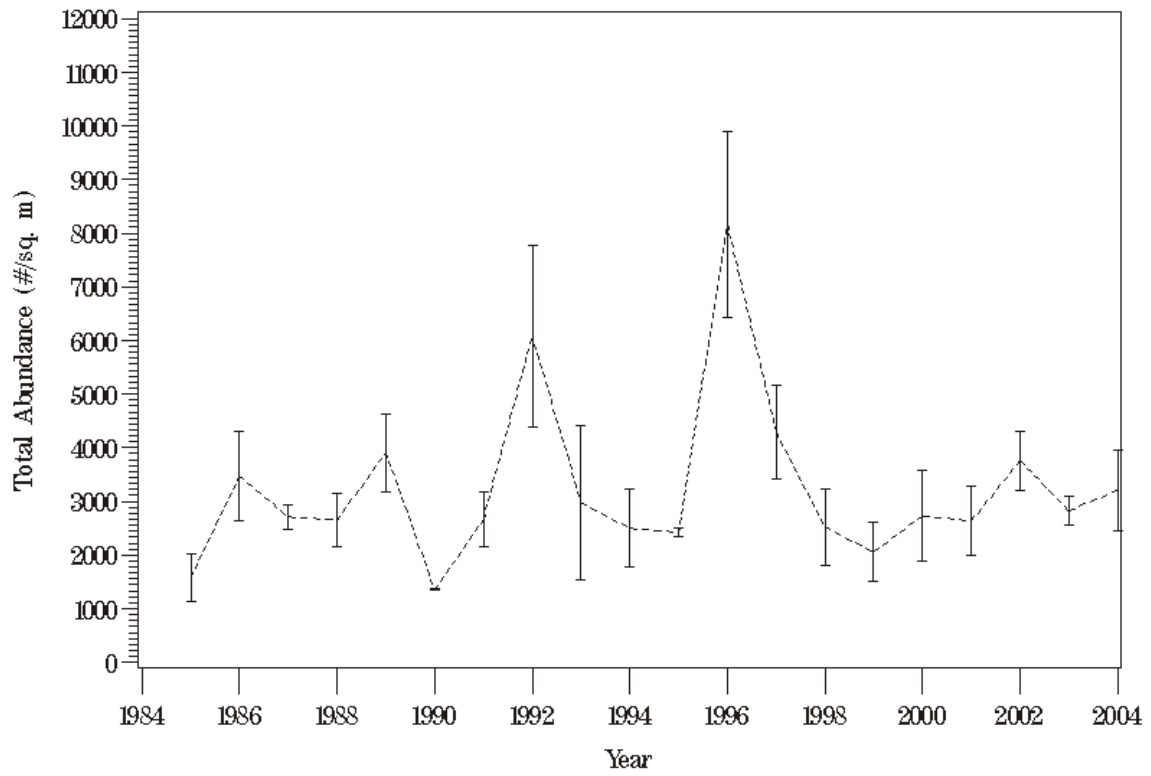


Figure L34. Plot of total benthic community abundance at station LE5.4 for 1985 through 2004.

## LE5.4 (4-J)

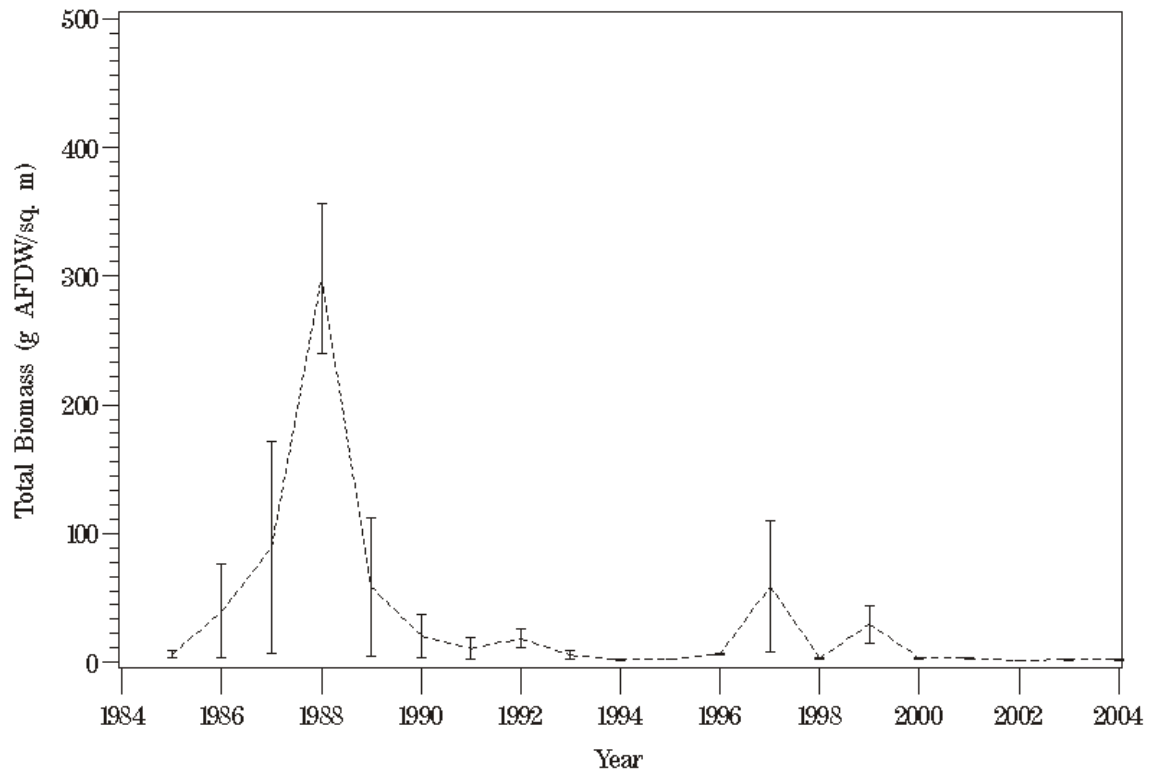


Figure L35. Plot of total benthic community biomass at station LE5.4 for 1985 through 2004.

# LE5.4 (4-J)

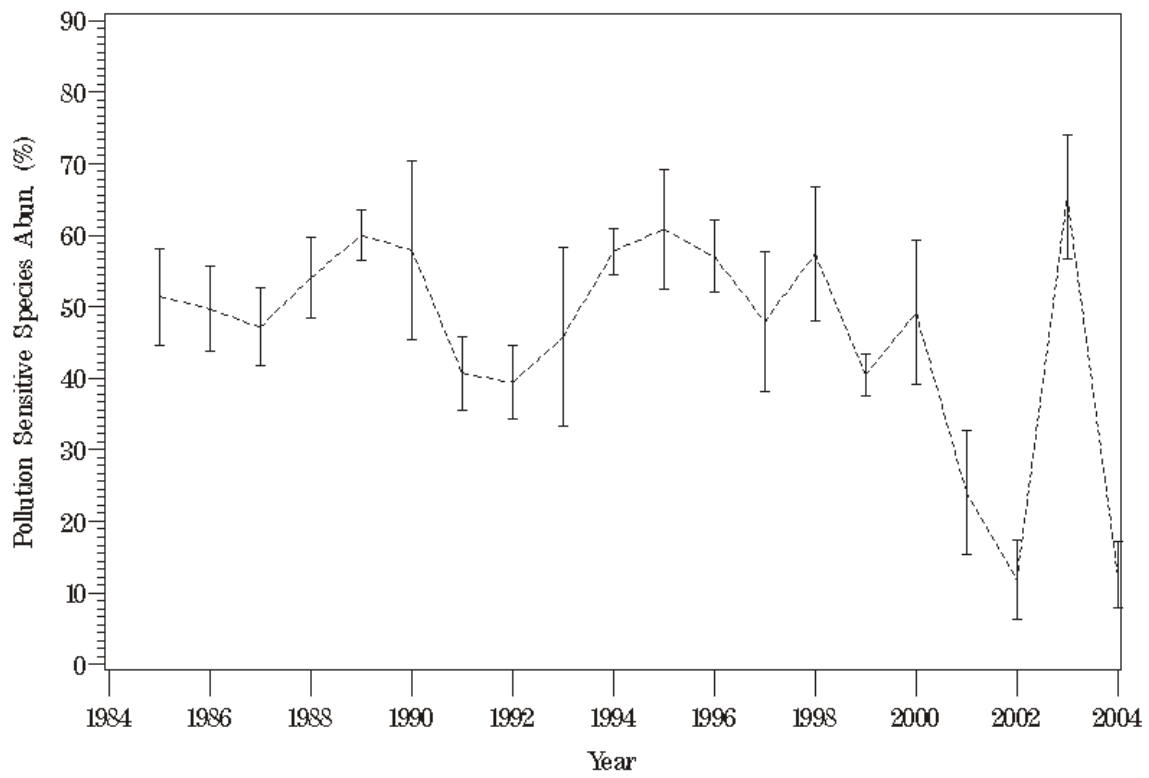


Figure L36. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2004.

## LE5.4 (4-J)

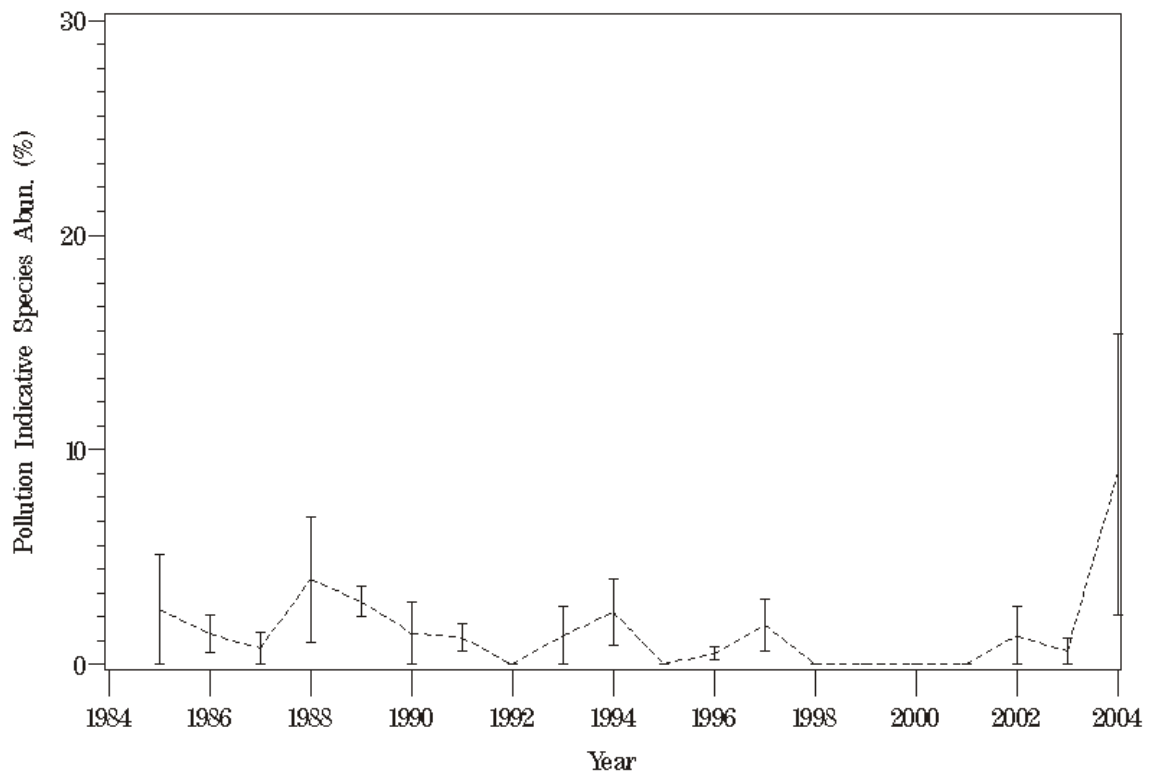


Figure L37. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2004.



# LE5.4 (4-J)

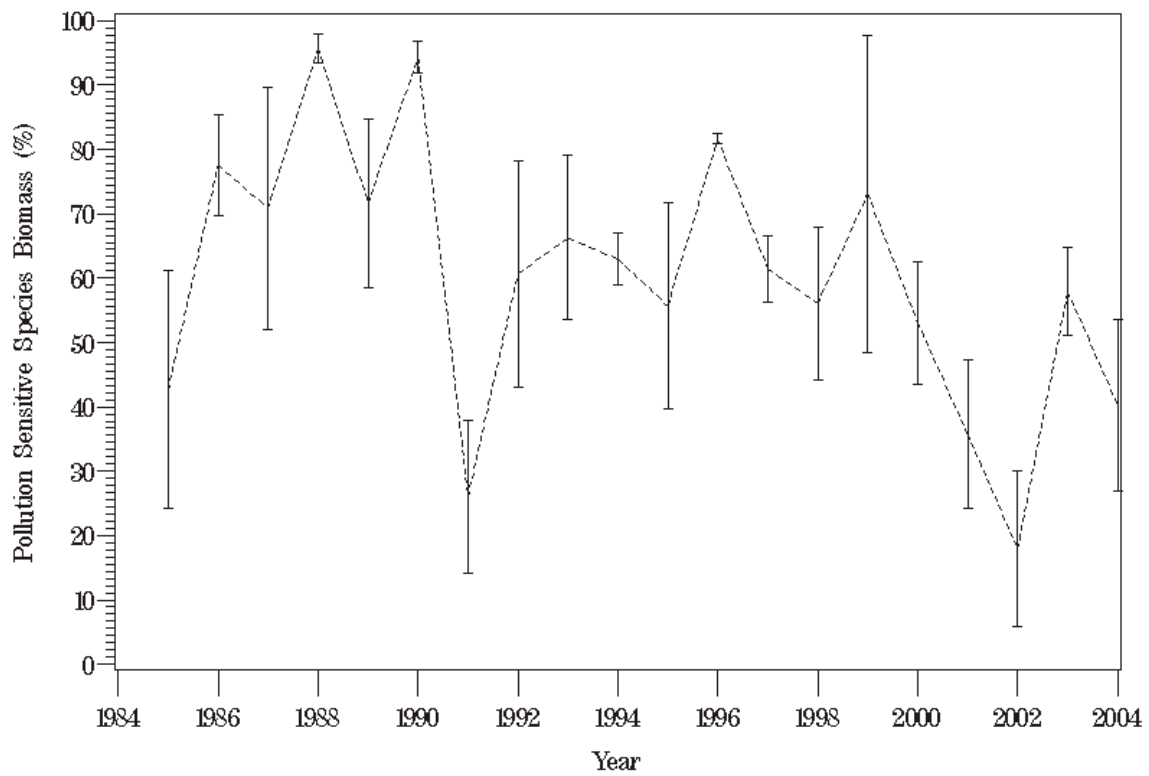


Figure L38. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2004.

# LE5.4 (4-J)

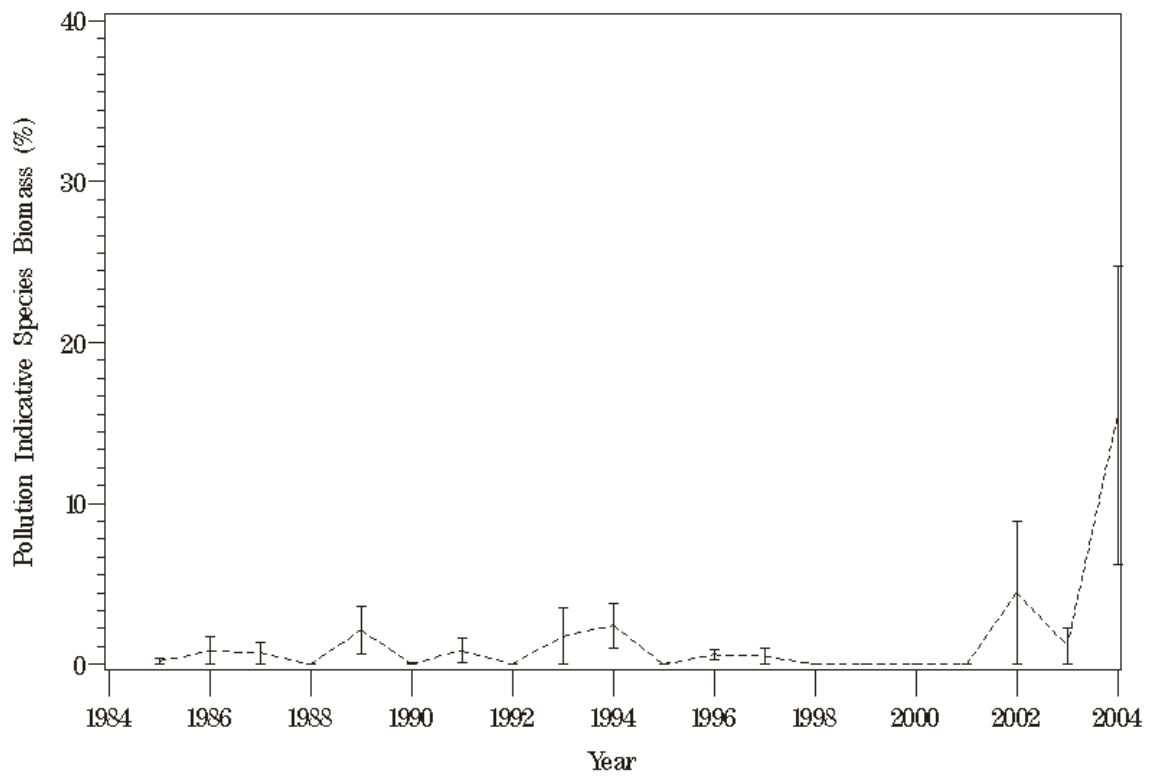


Figure L39. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2004.

## LE5.4 (4-J)

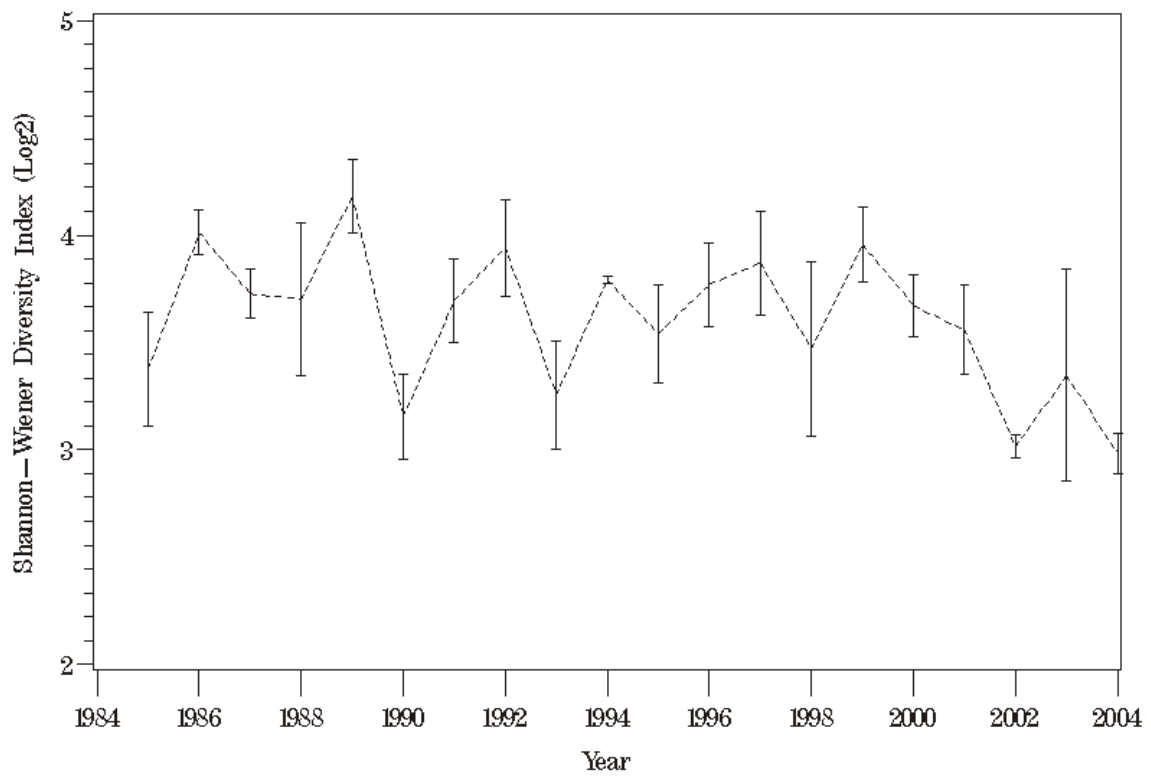


Figure L40. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2004.

## SBE2 (2-SB)

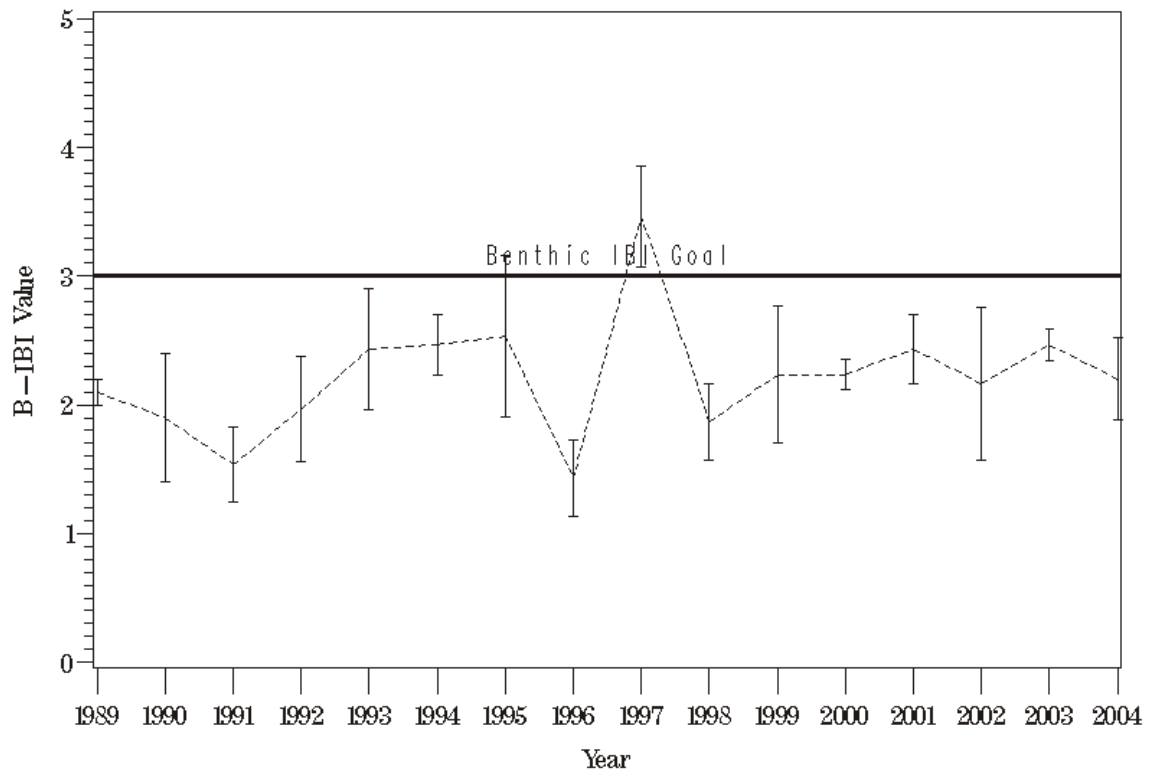


Figure L41. Plot of the benthic IBI against time at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

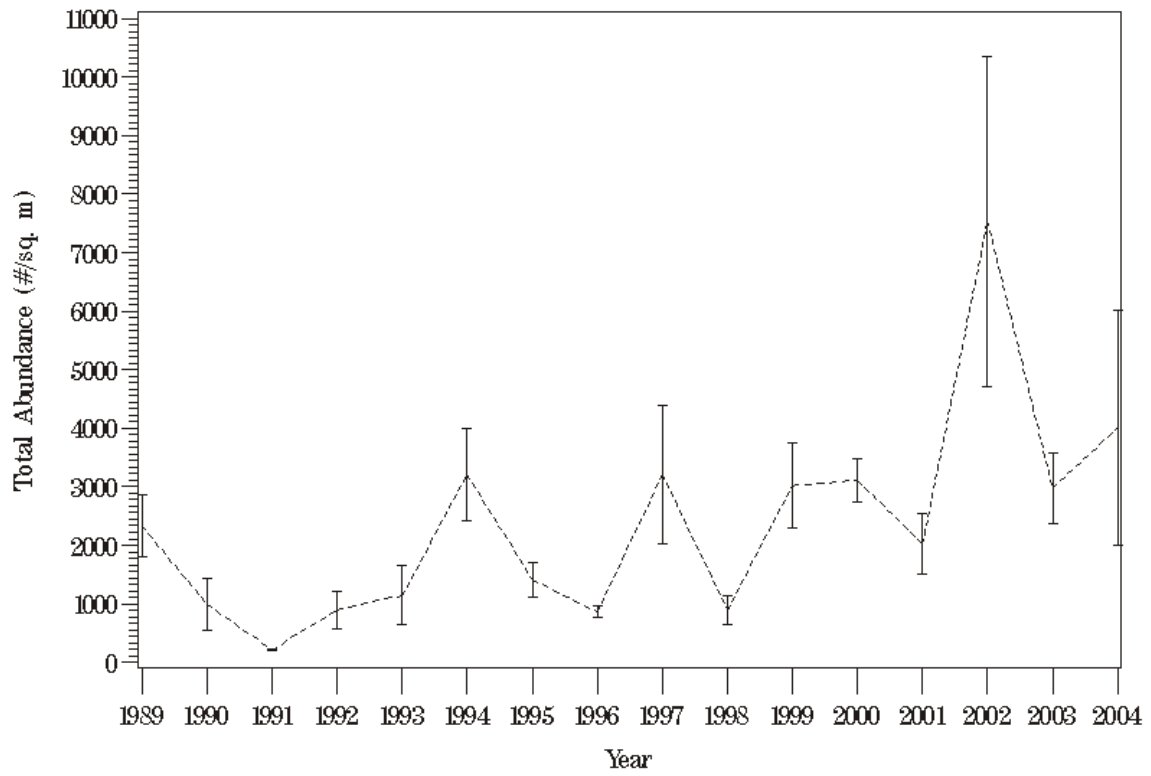


Figure L42. Plot of total benthic community abundance at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

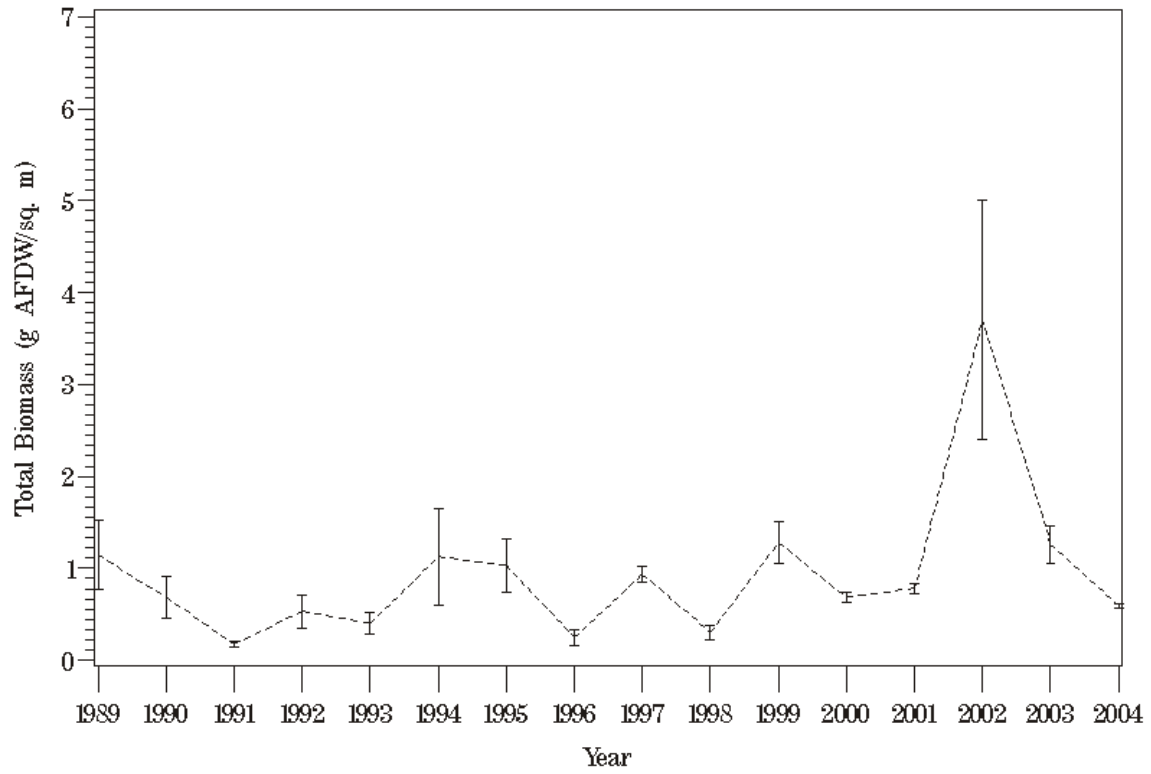


Figure L43. Plot of total benthic community biomass at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

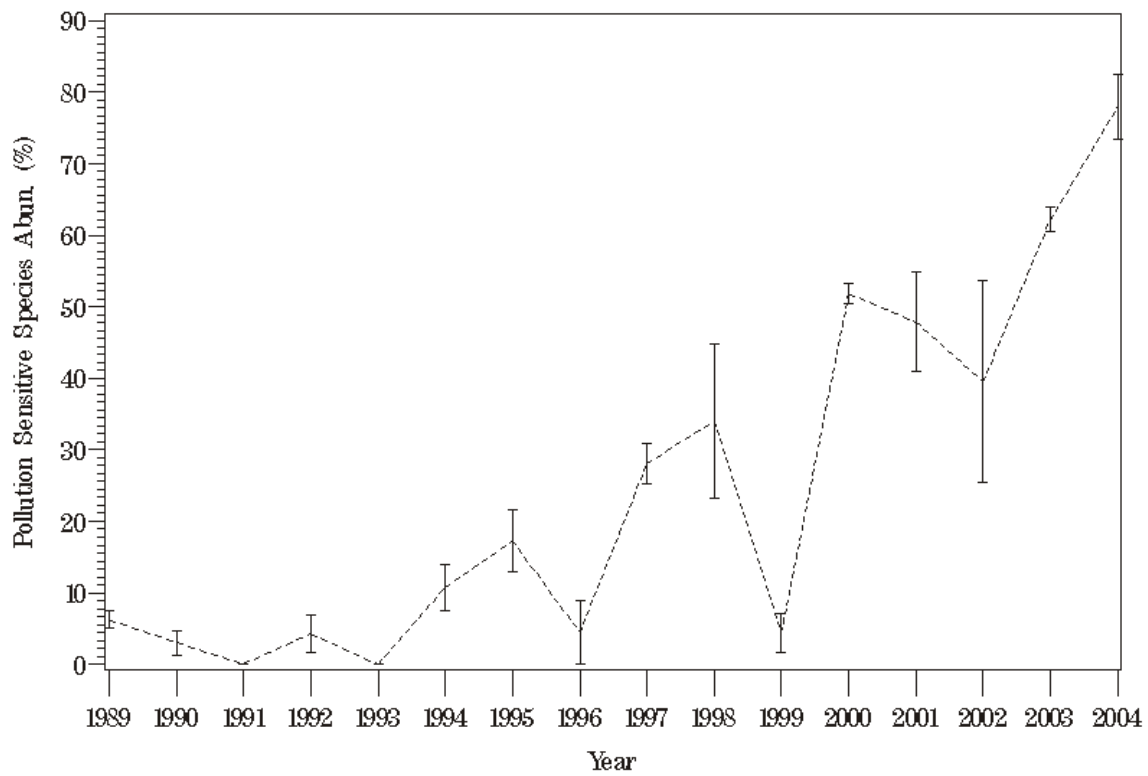


Figure L44. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

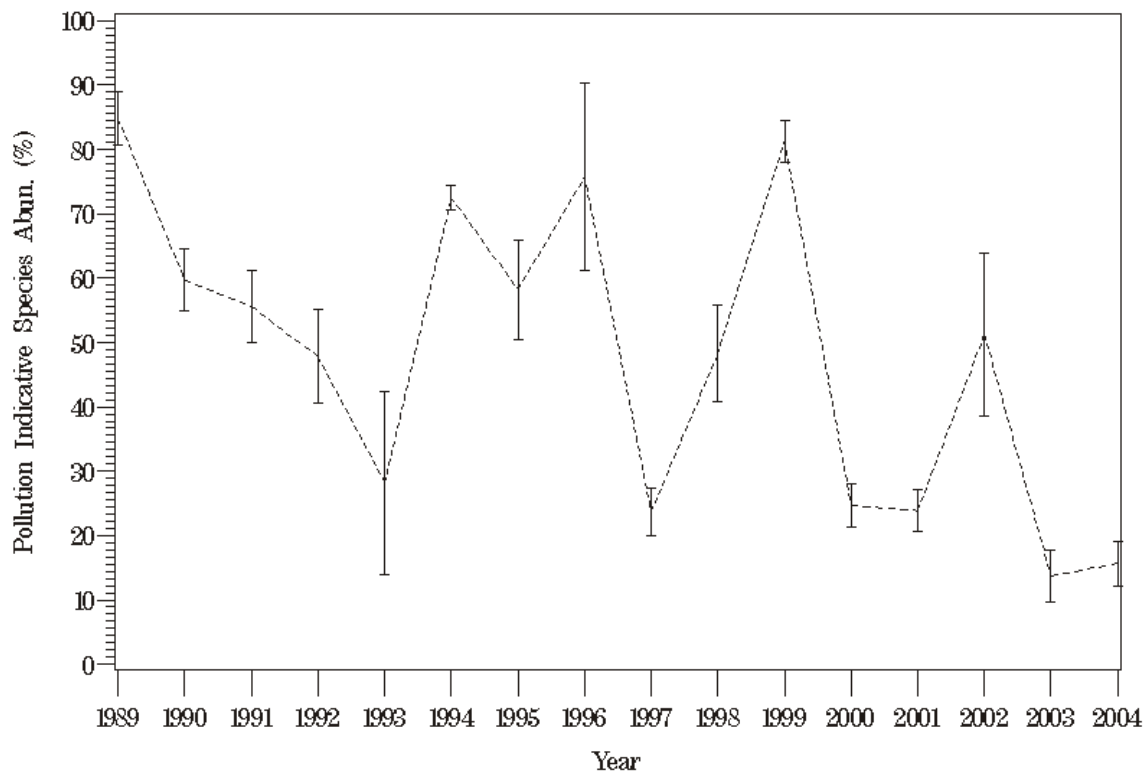


Figure L45. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2004.



## SBE2 (2-SB)

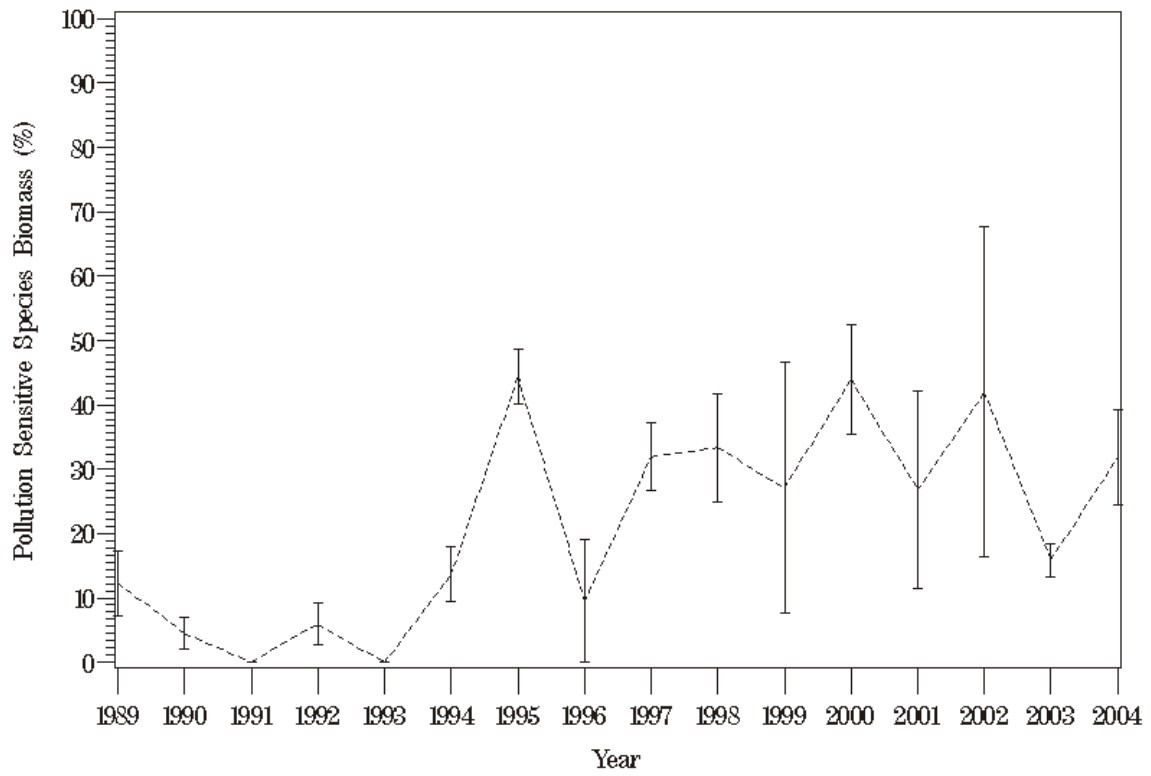


Figure L46. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

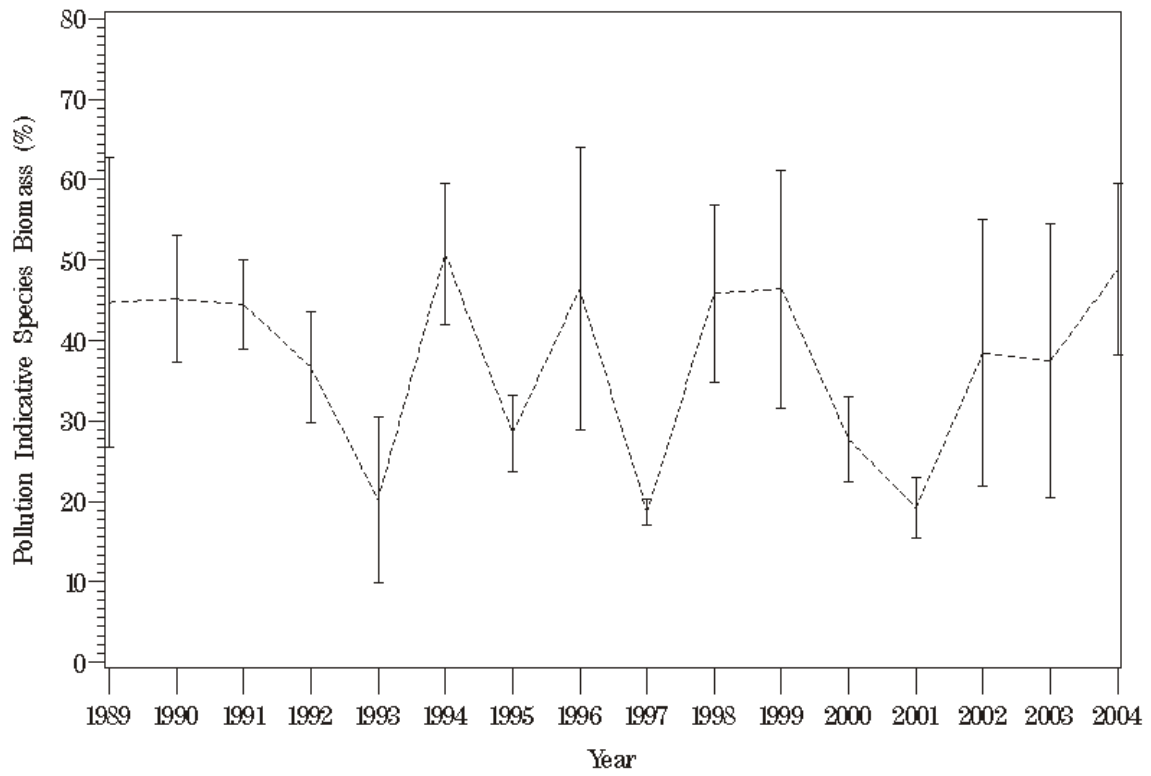


Figure L47. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2004.

## SBE2 (2-SB)

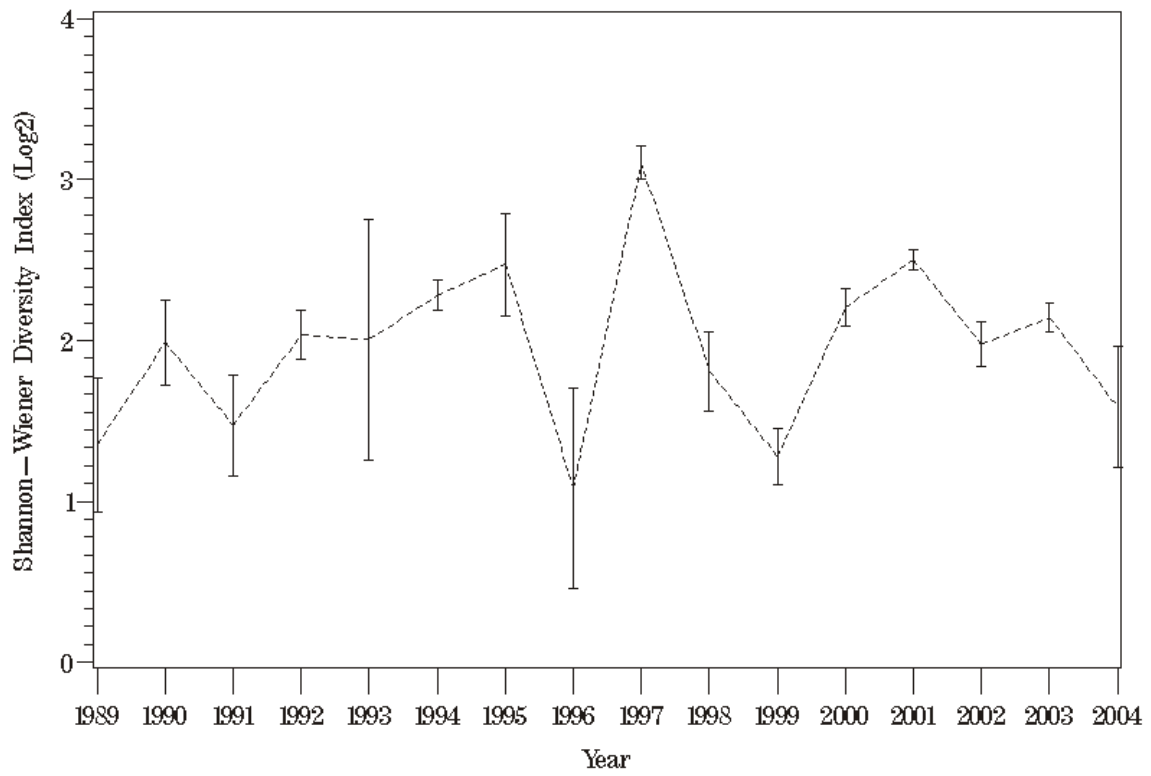


Figure L48. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2004.

## SBE5 (5-SB)

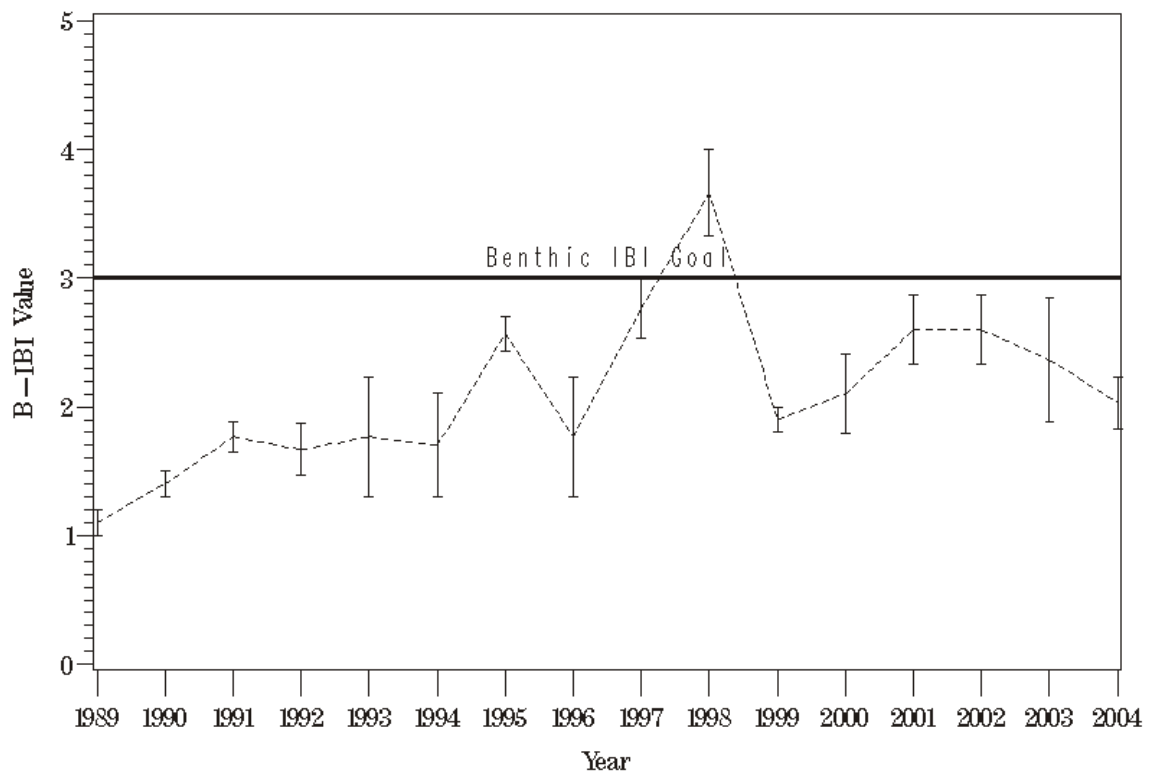


Figure L49. Plot of the benthic IBI against time at station SBE5 for 1985 through 2004.

## SBE5 (5-SB)

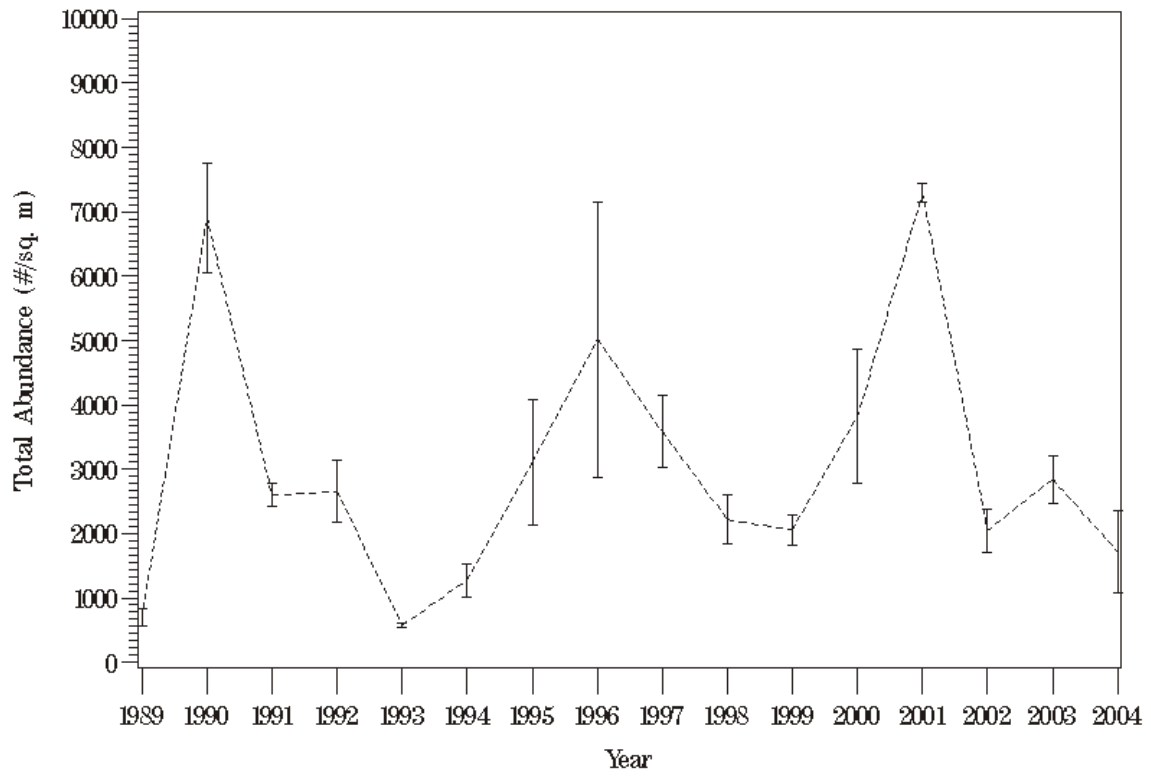


Figure L50. Plot of total benthic community abundance at station SBE5 for 1985 through 2004.

## SBE5 (5-SB)

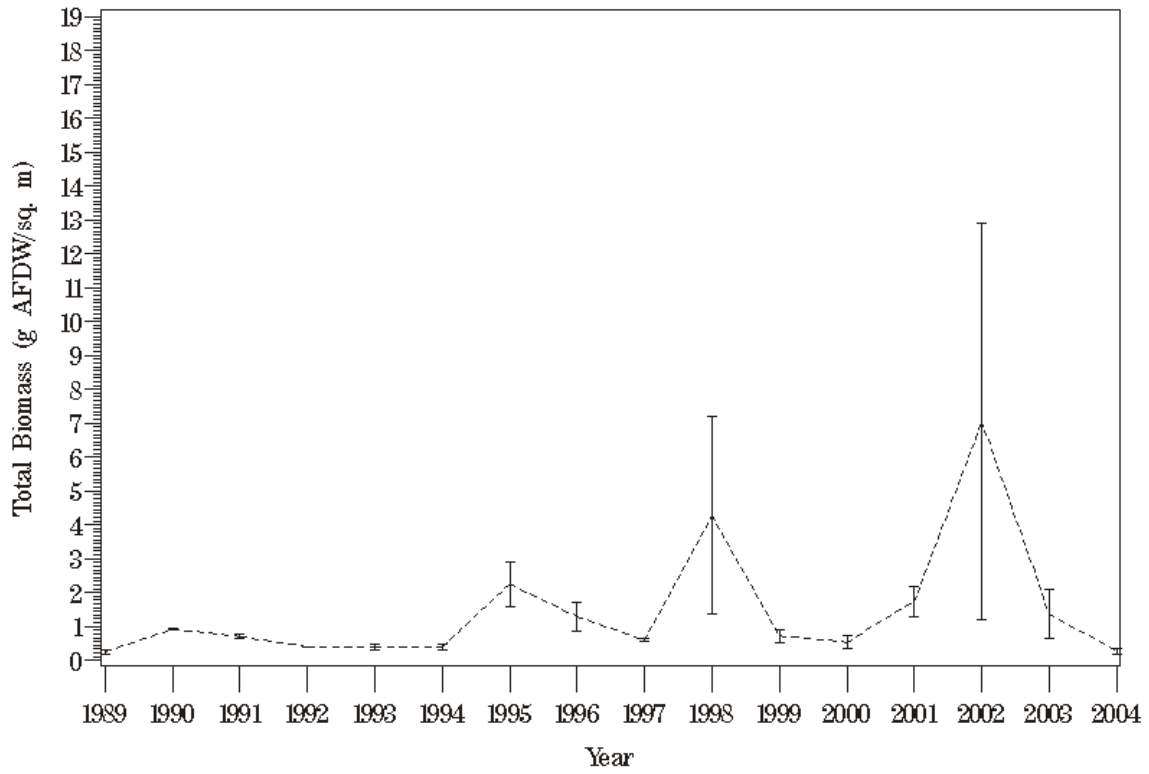


Figure L51. Plot of total benthic community biomass at station SBE5 for 1985 through 2004.

## SBE5 (5-SB)

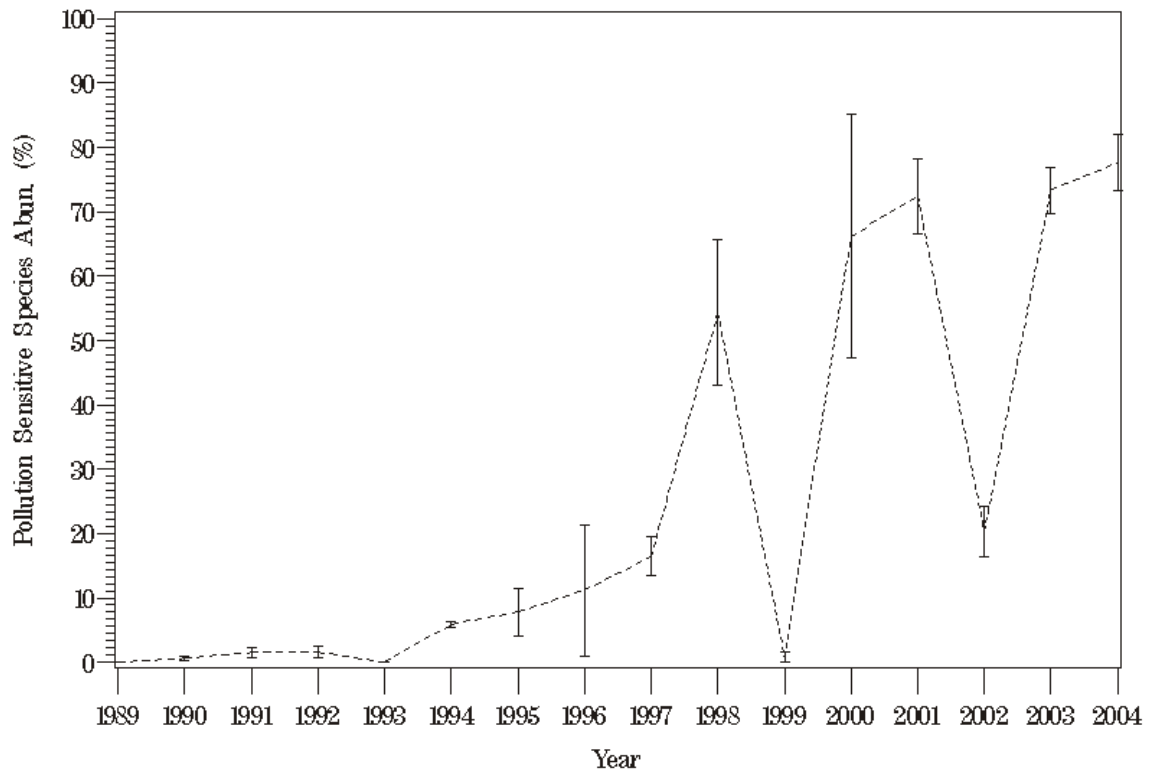


Figure L52. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2004.

## SBE5 (5-SB)

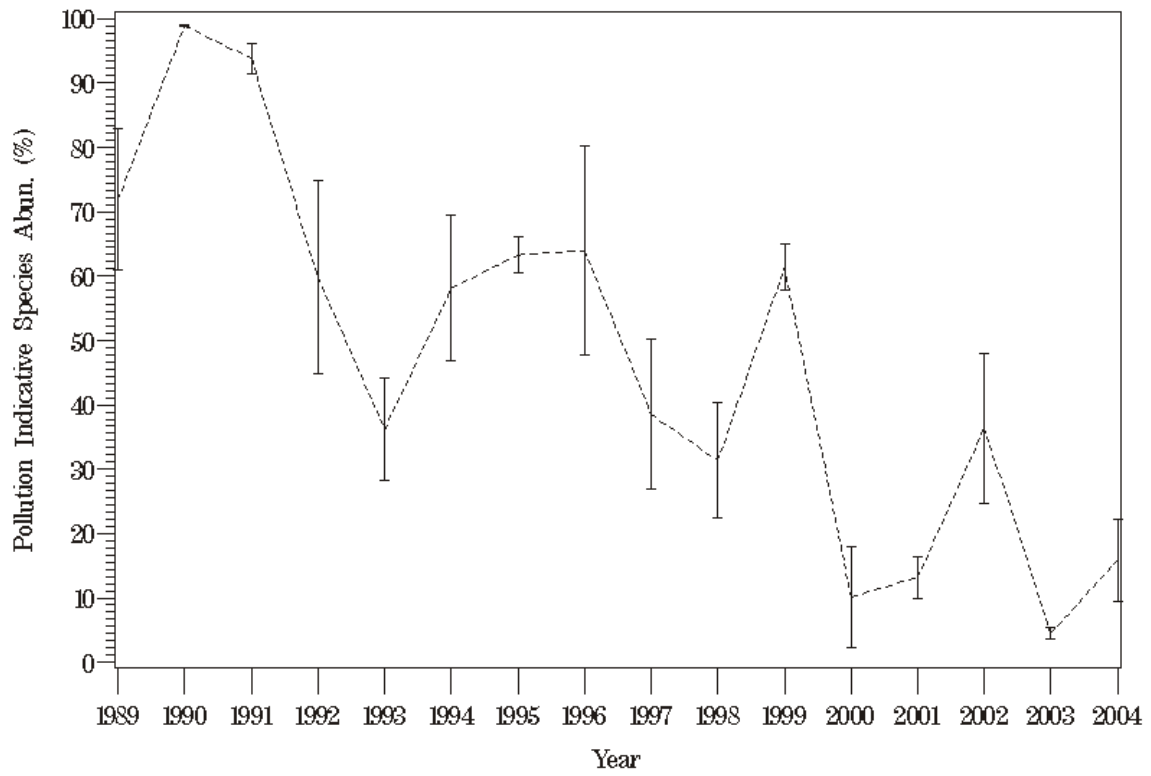


Figure L53. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2004.



## SBE5 (5-SB)

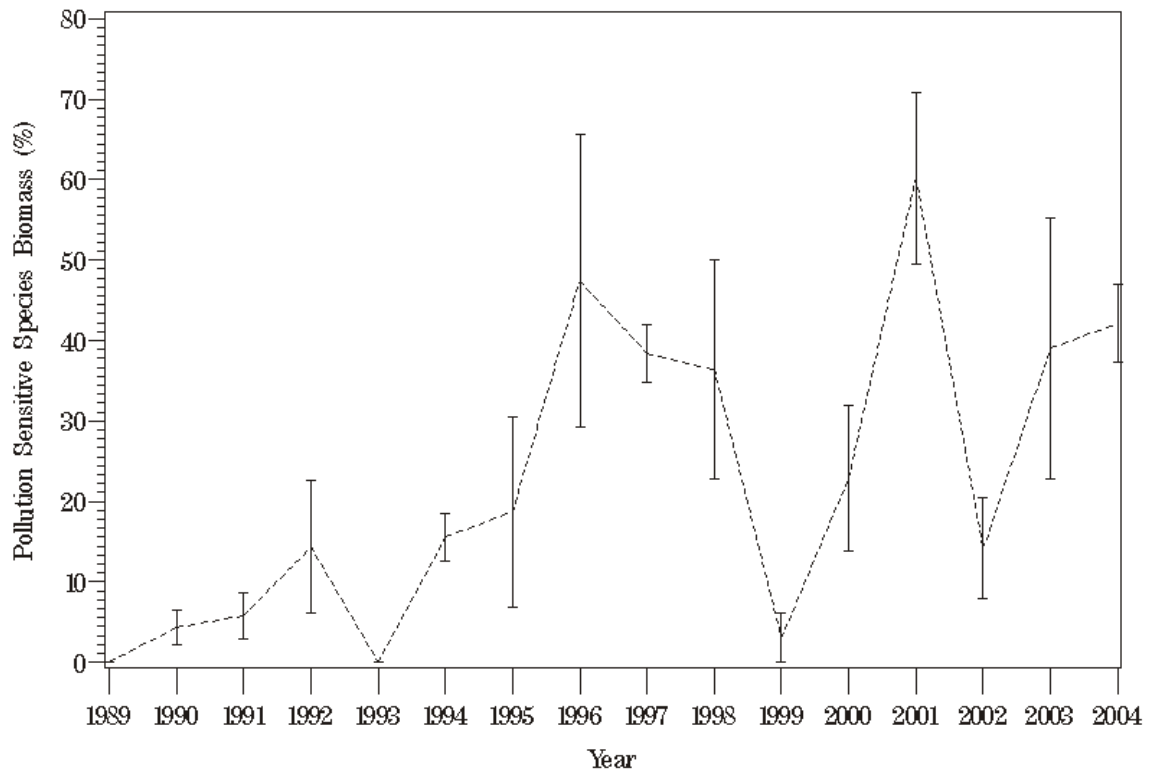


Figure L54. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2004.

### SBE5 (5-SB)

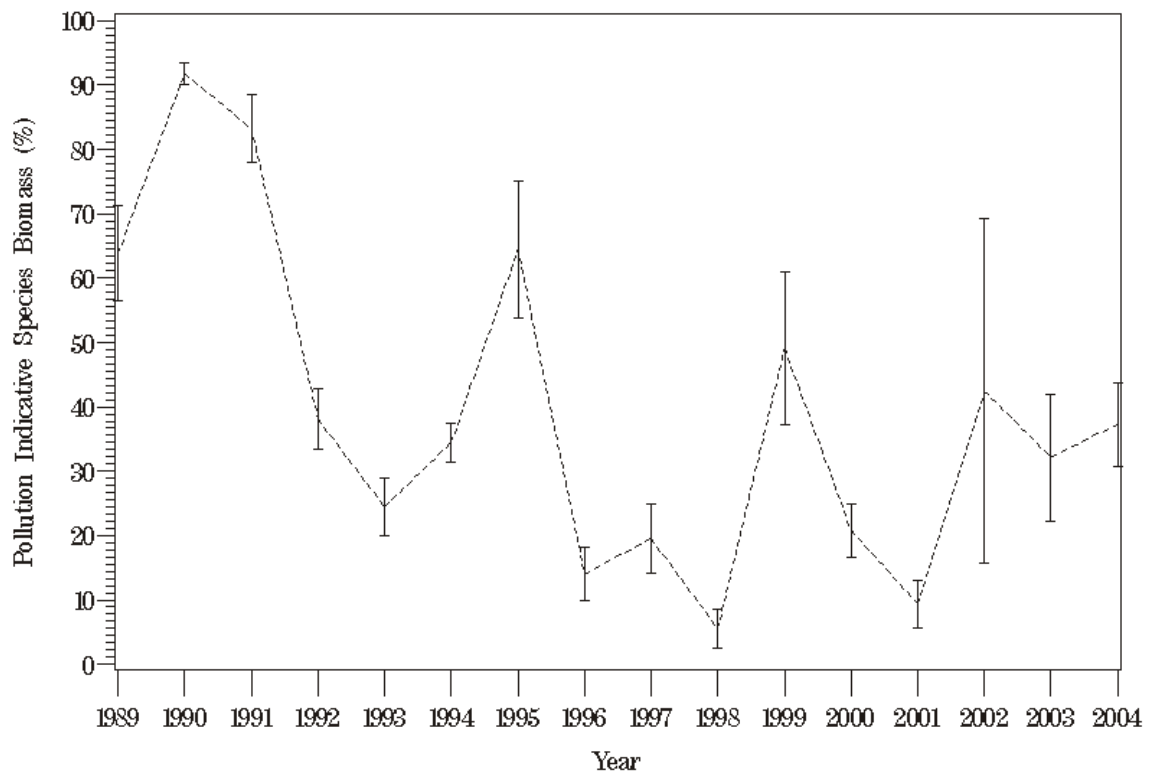


Figure L55. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2004.

## SBE5 (5-SB)

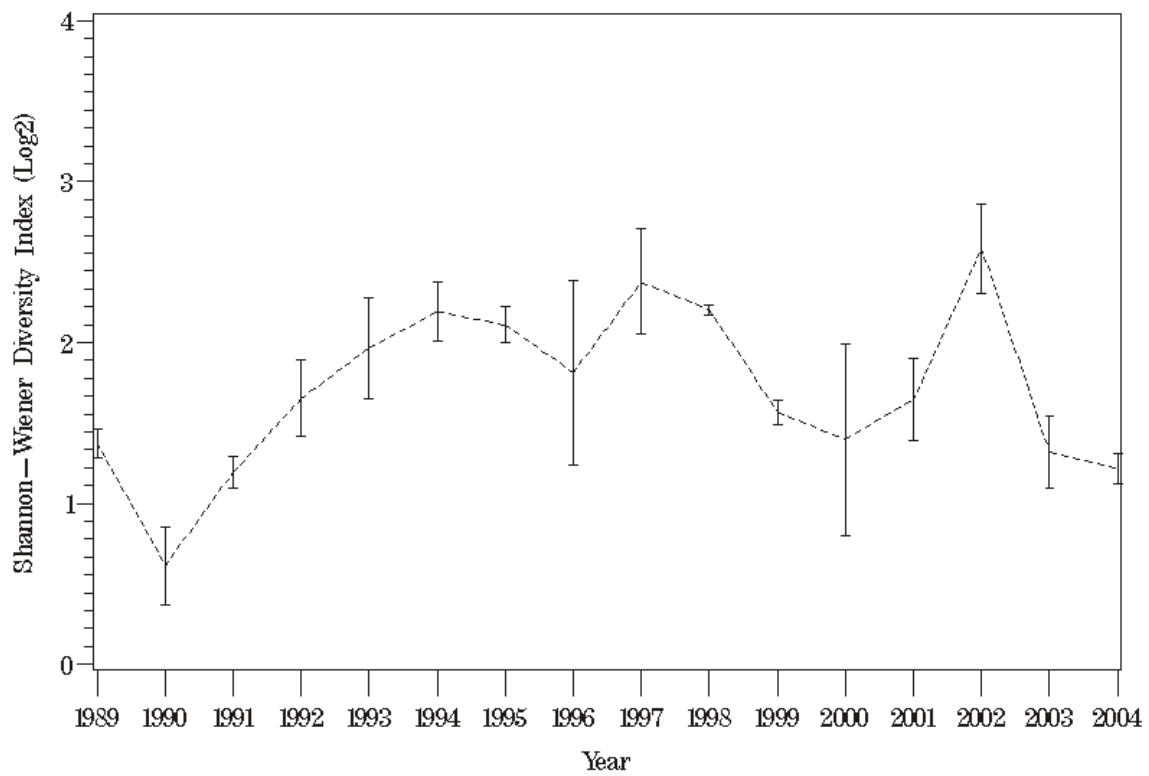


Figure L56. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2004.

## TF4.2 (1-YP)

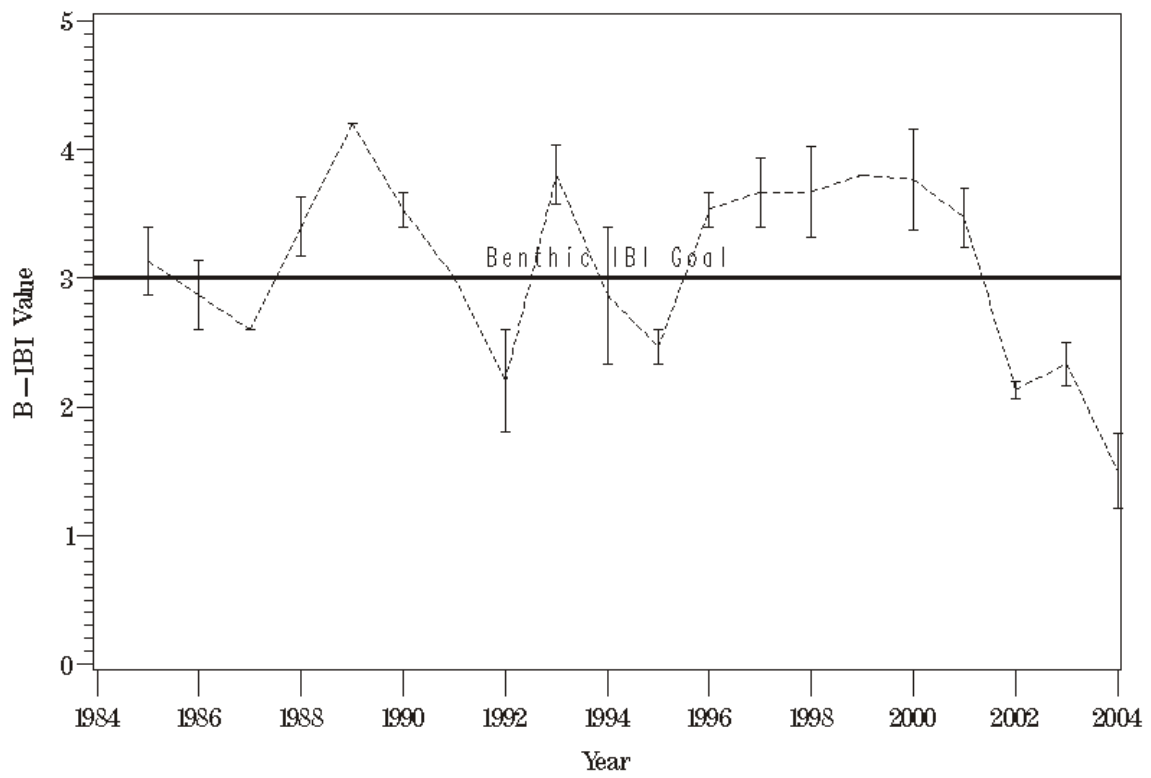


Figure L57. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

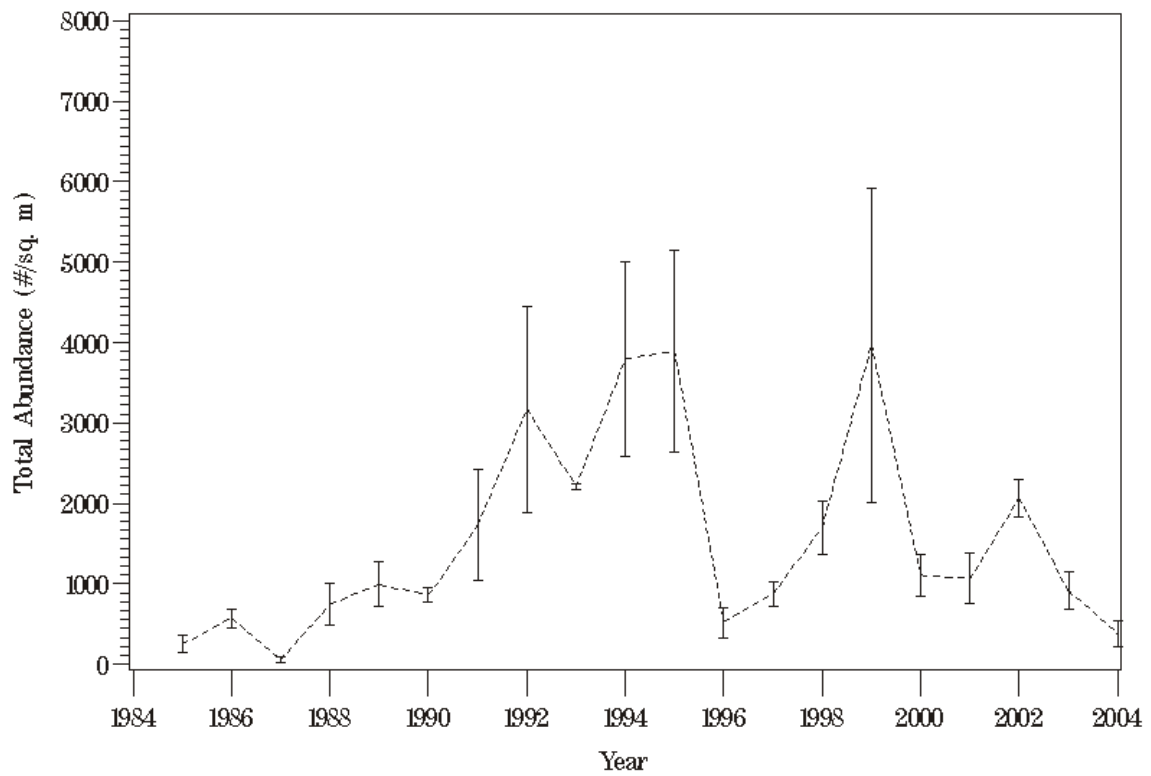


Figure L58. Plot of total benthic community abundance at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

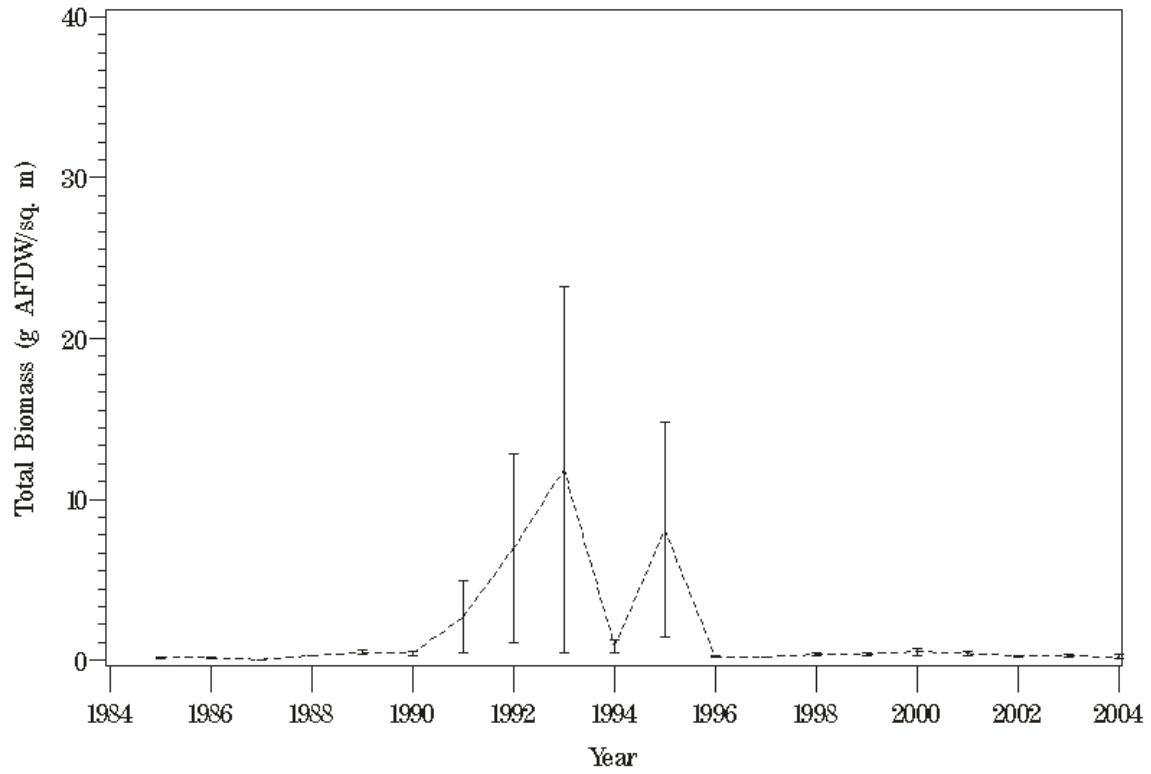


Figure L59. Plot of total benthic community biomass at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

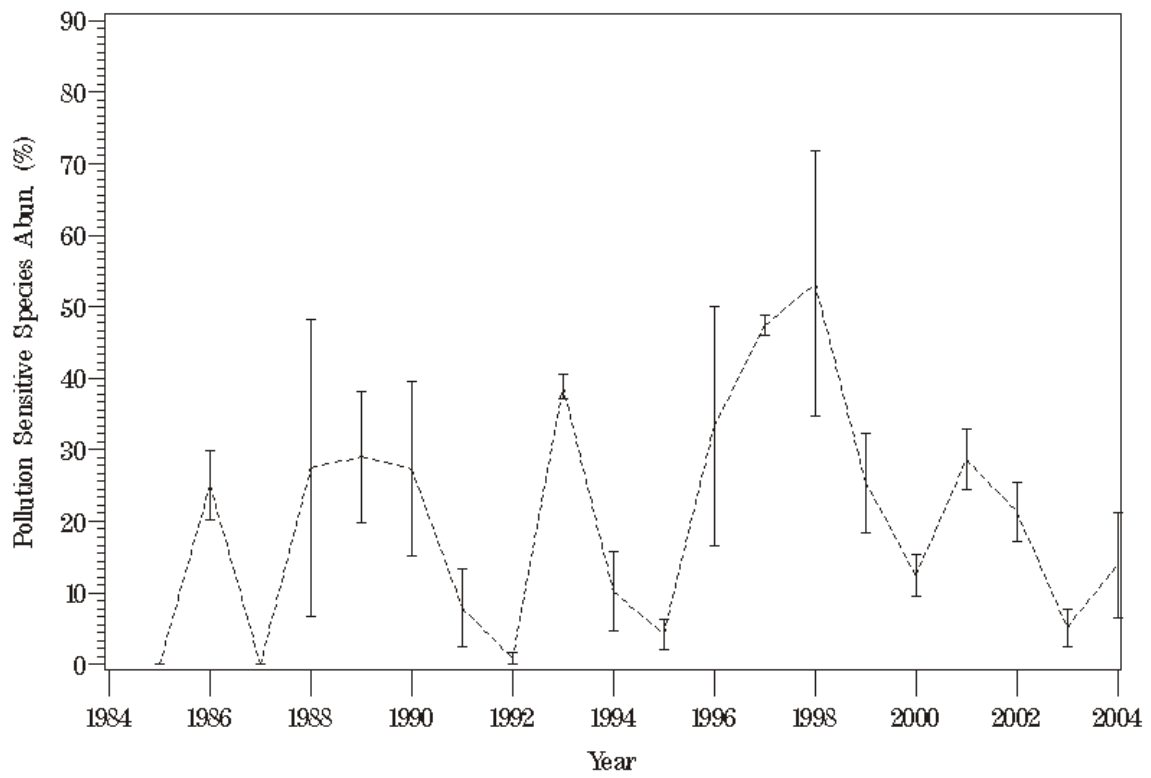


Figure L60. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

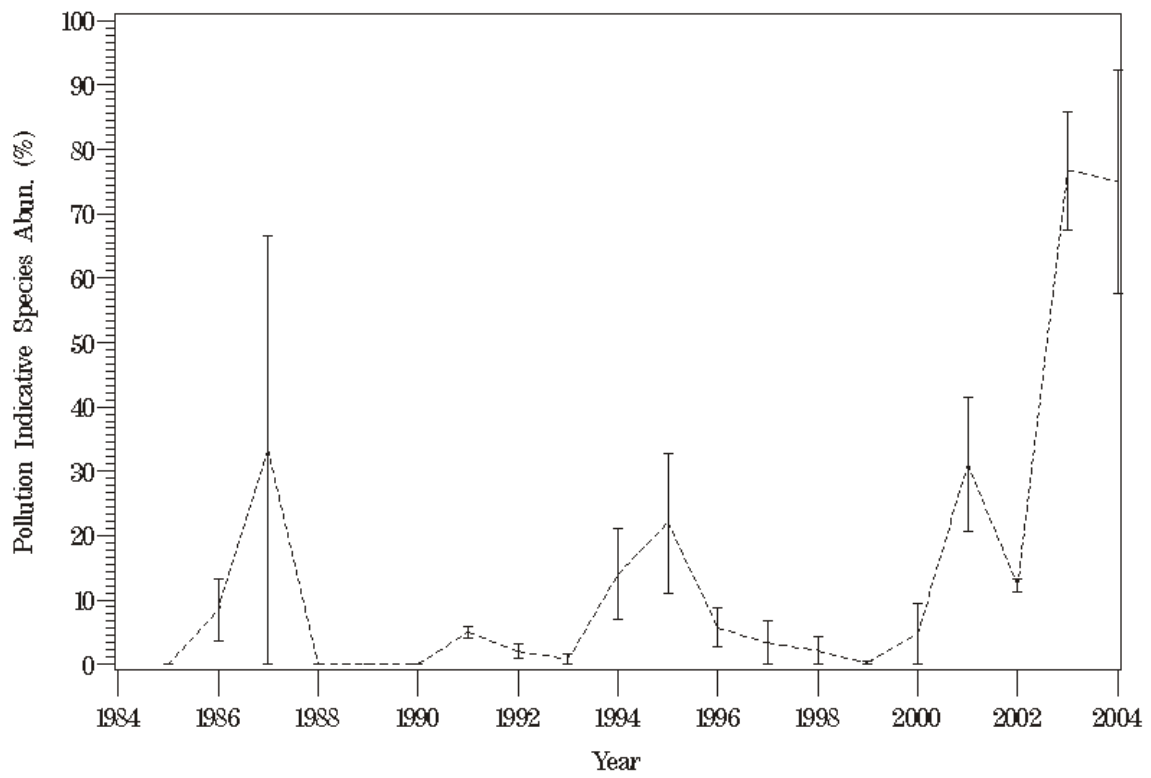


Figure L61. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2004.



## TF4.2 (1-YP)

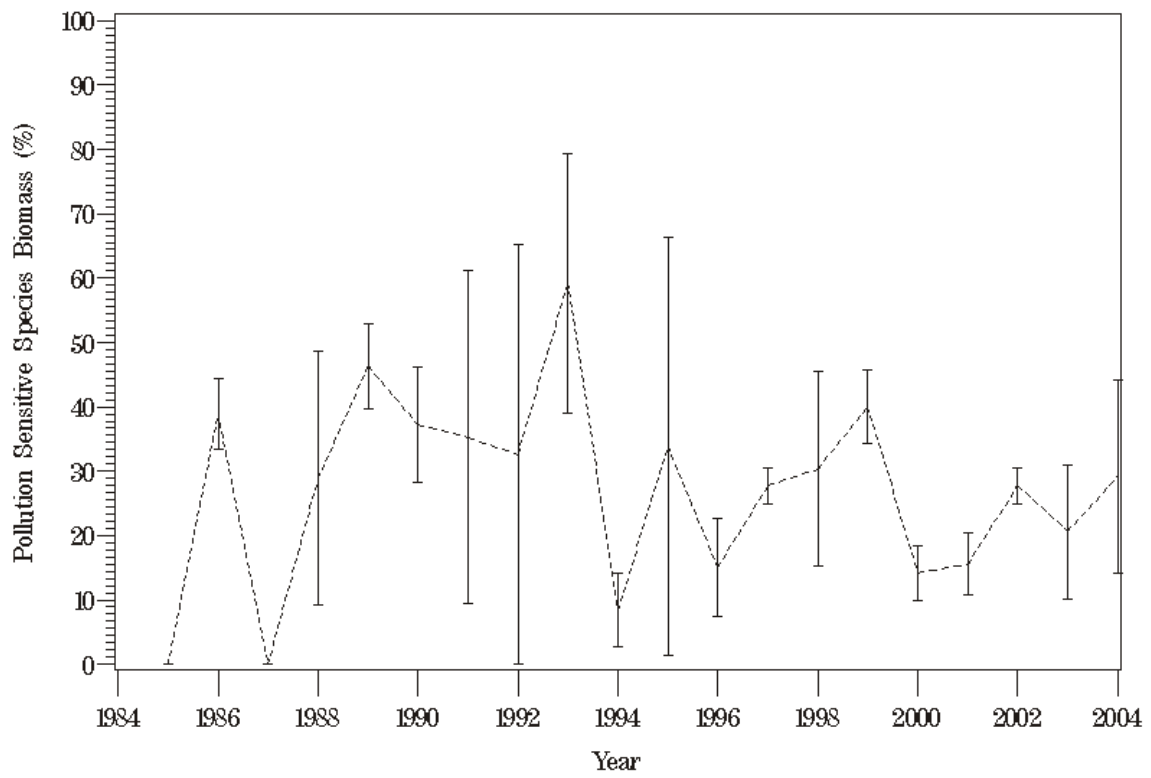


Figure L62. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

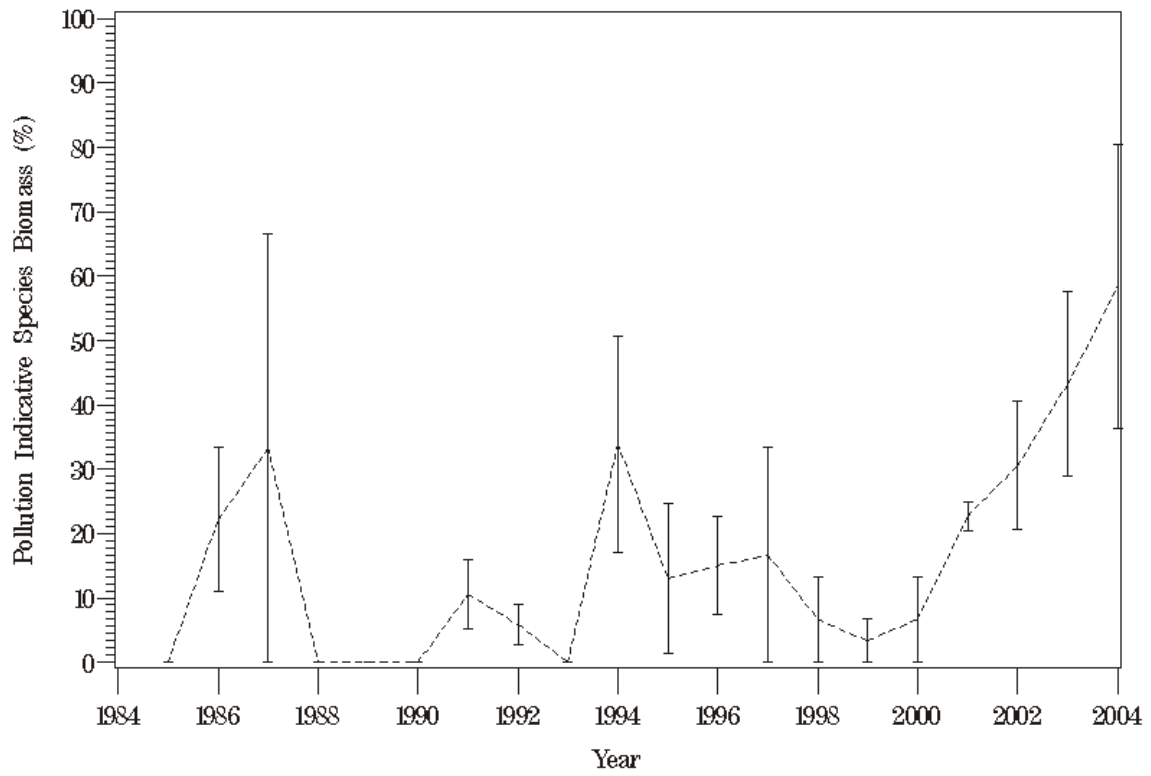


Figure L63. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2004.

## TF4.2 (1-YP)

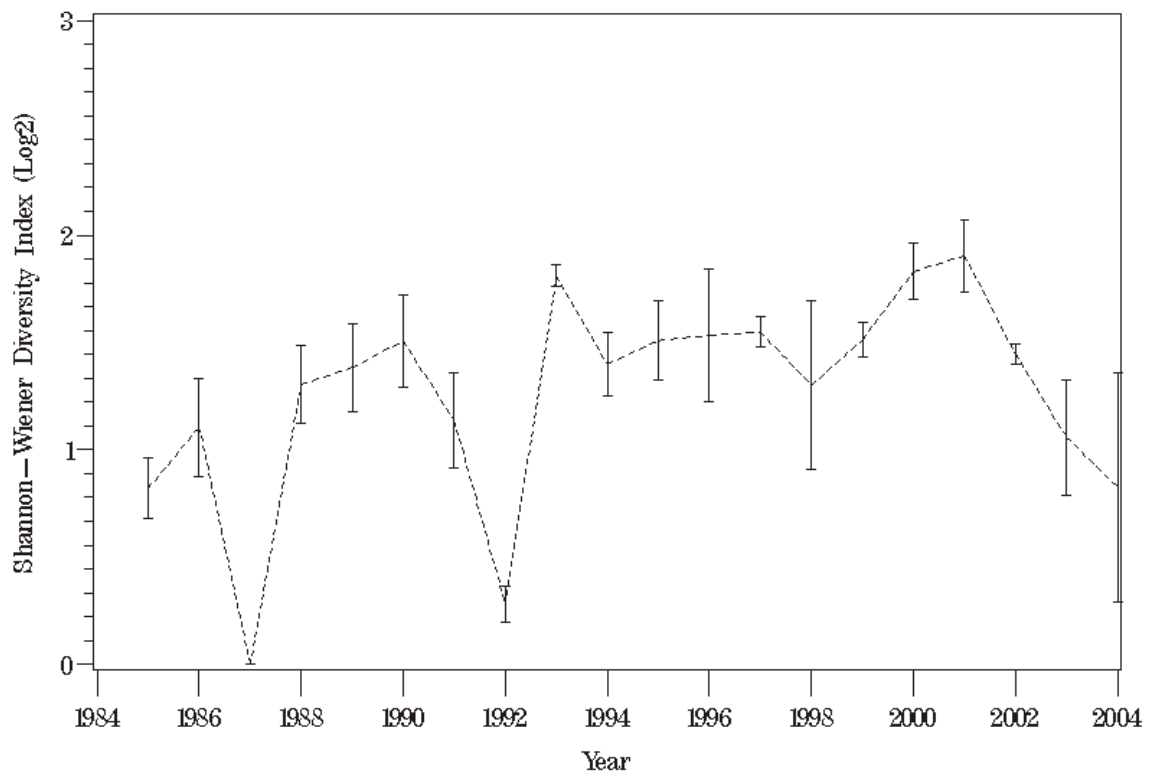


Figure L64. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2004.

## RET4.3 (2-YP)

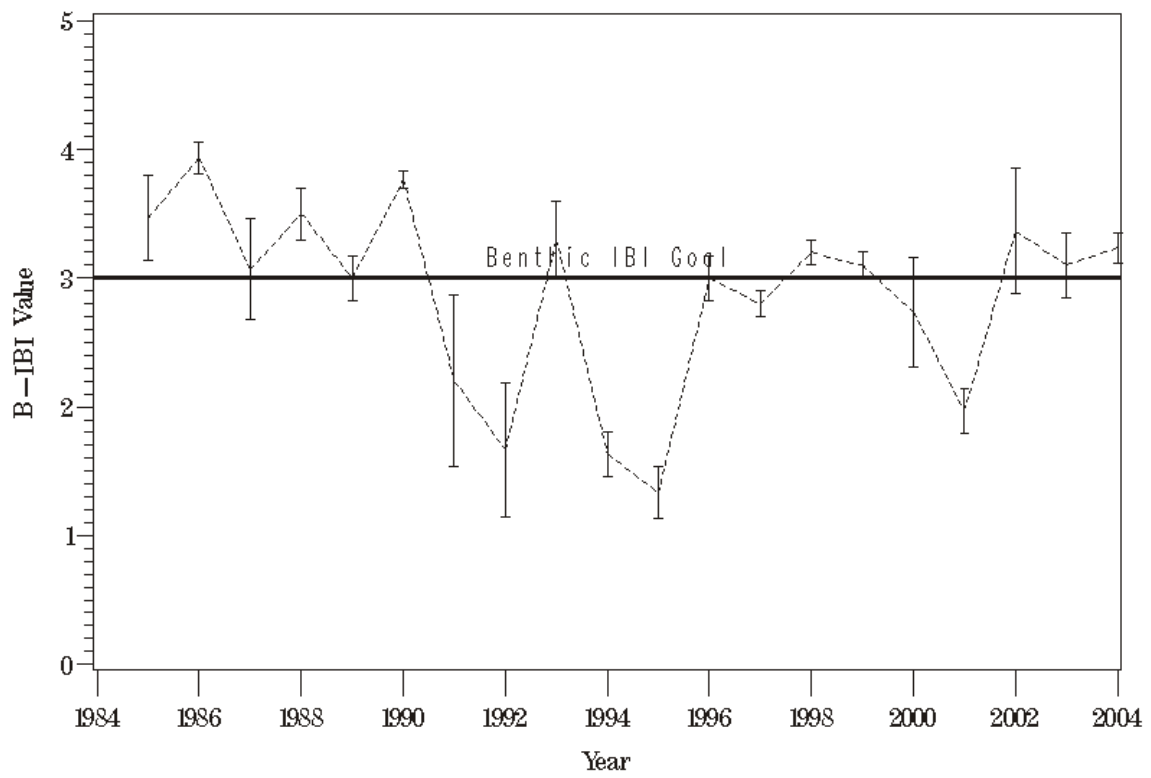


Figure L65. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

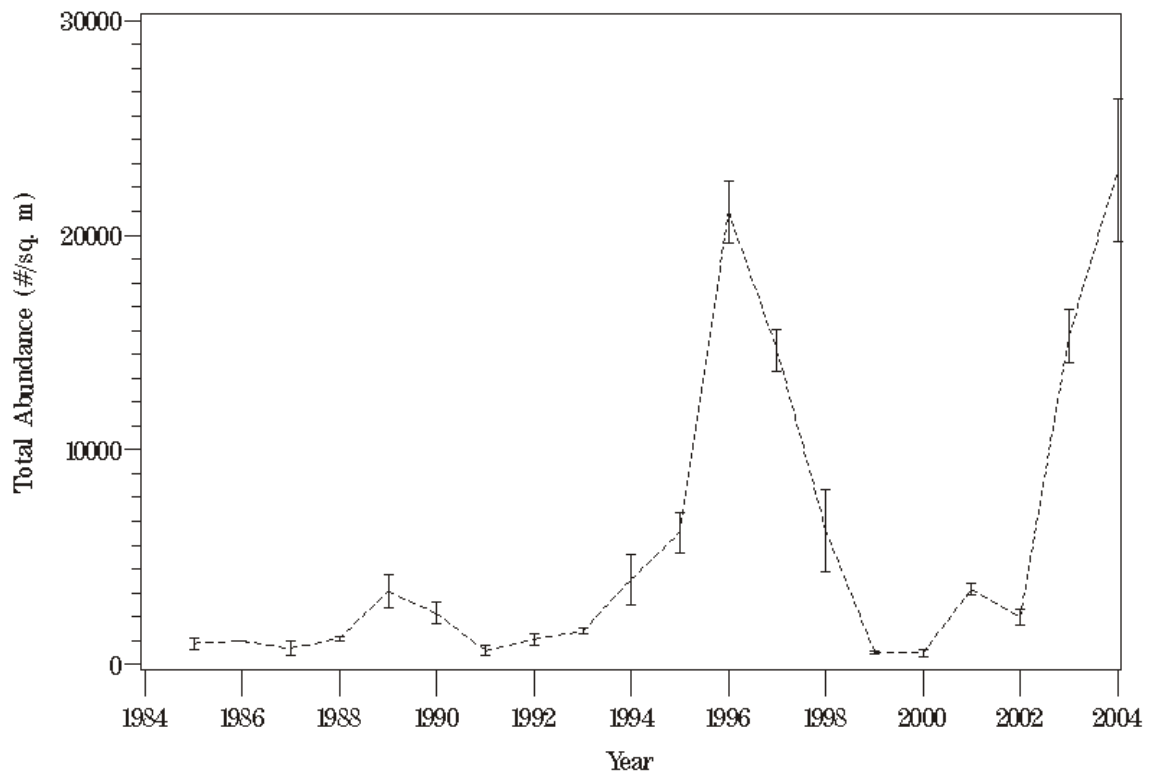


Figure L66. Plot of total benthic community abundance at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

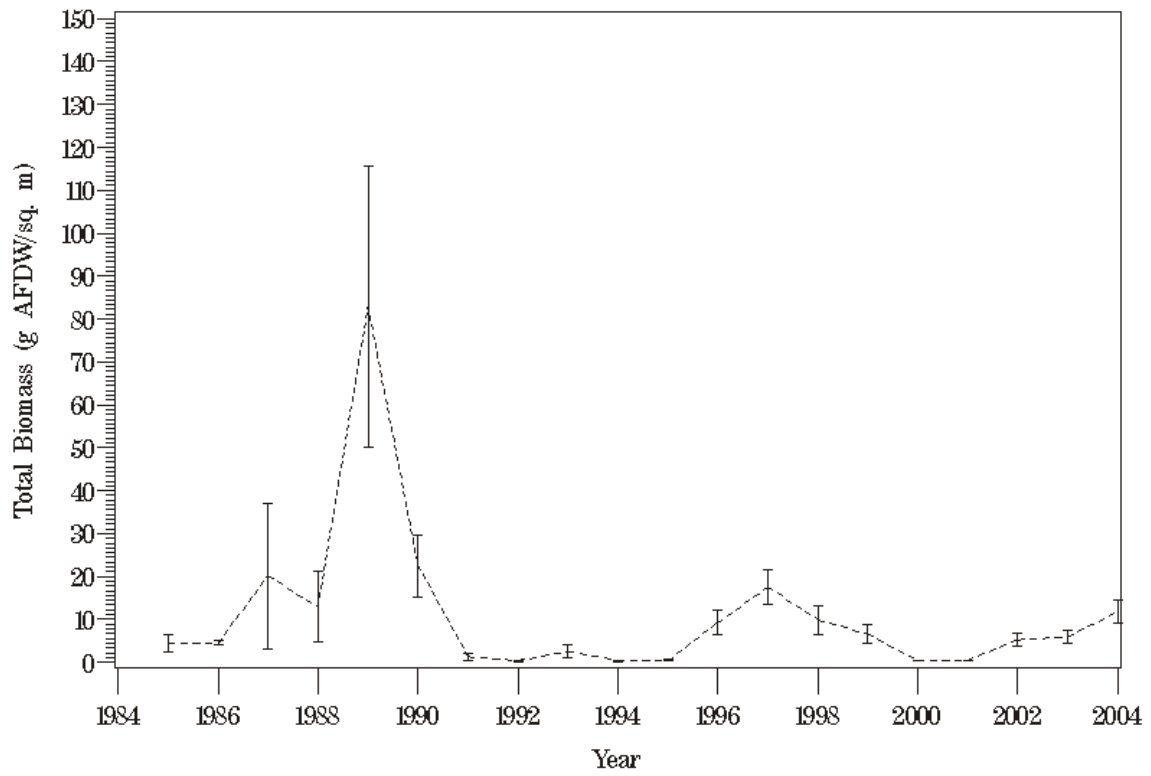


Figure L67. Plot of total benthic community biomass at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

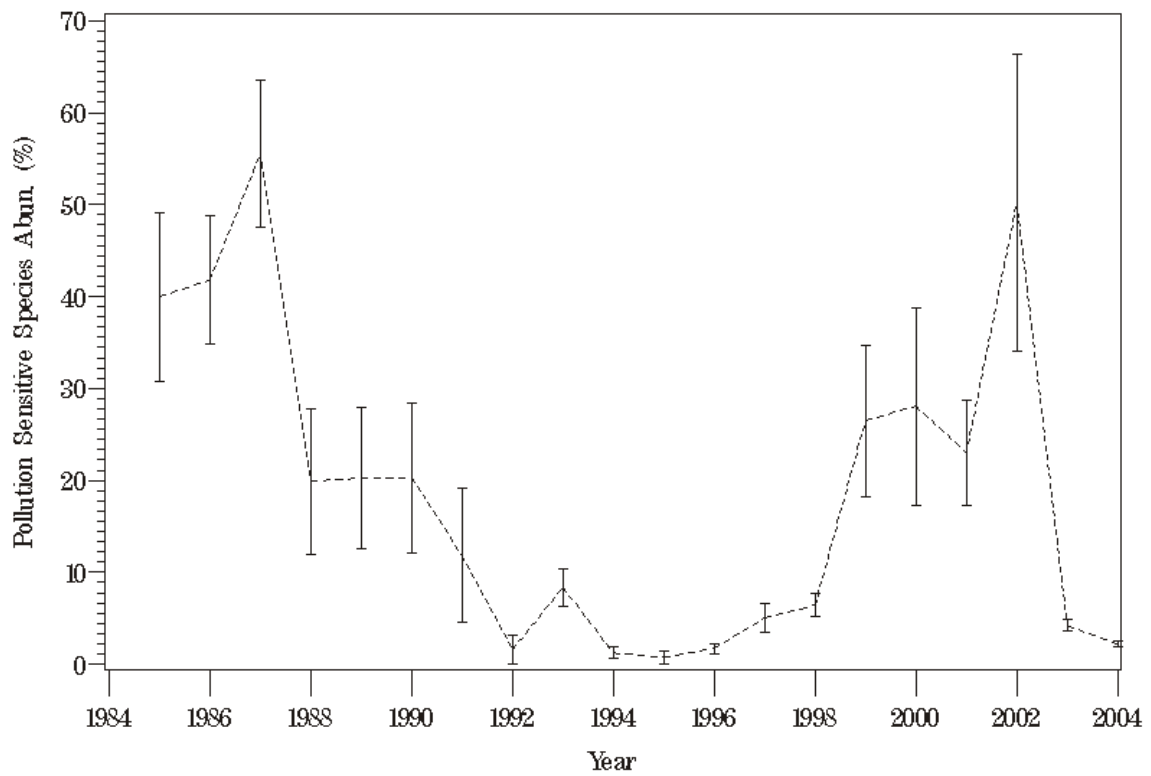


Figure L68. Plot of pollution sensitive species abundance at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

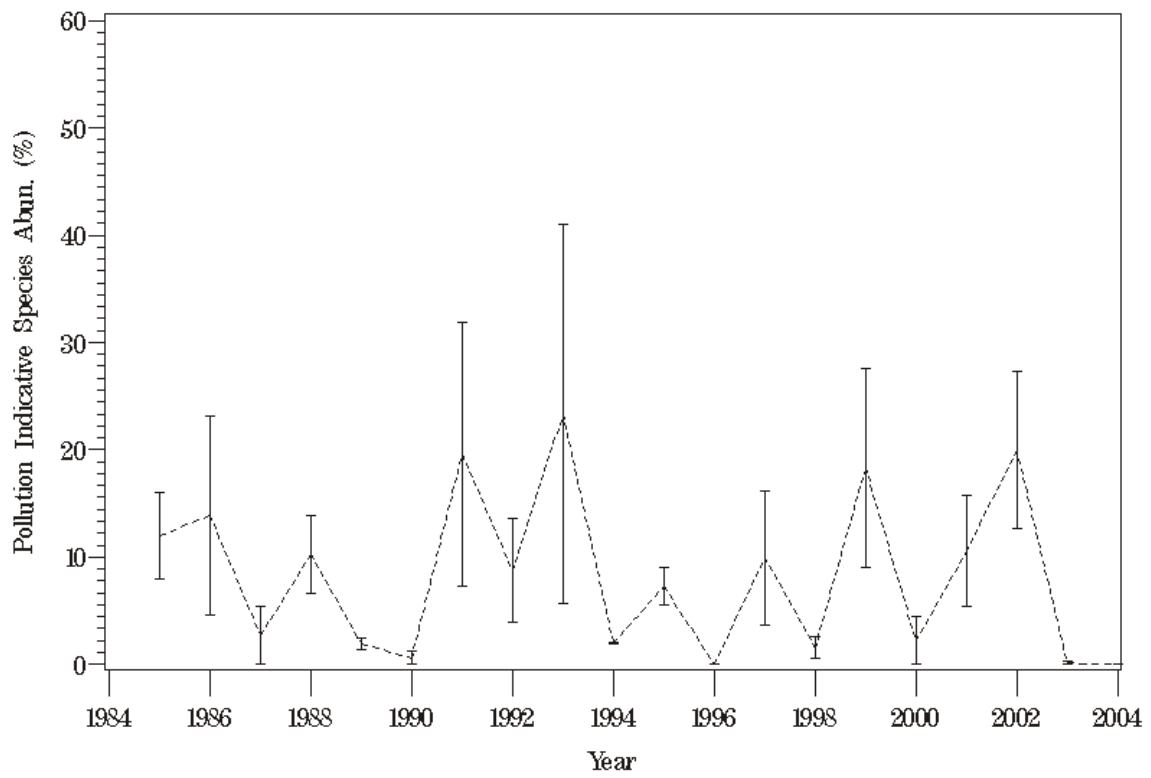


Figure L69. Plot of pollution indicative species abundance at station RET4.3 for 1985 through 2004.



## RET4.3 (2-YP)

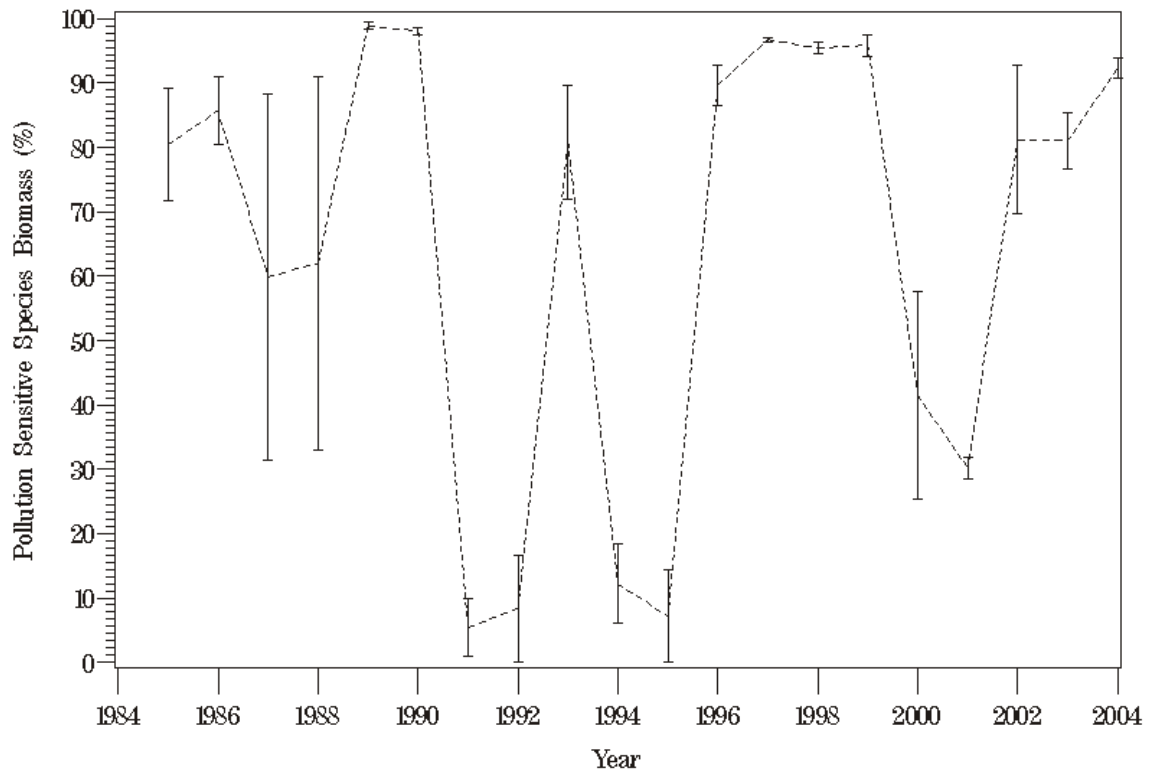


Figure L70. Plot of pollution sensitive species biomass at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

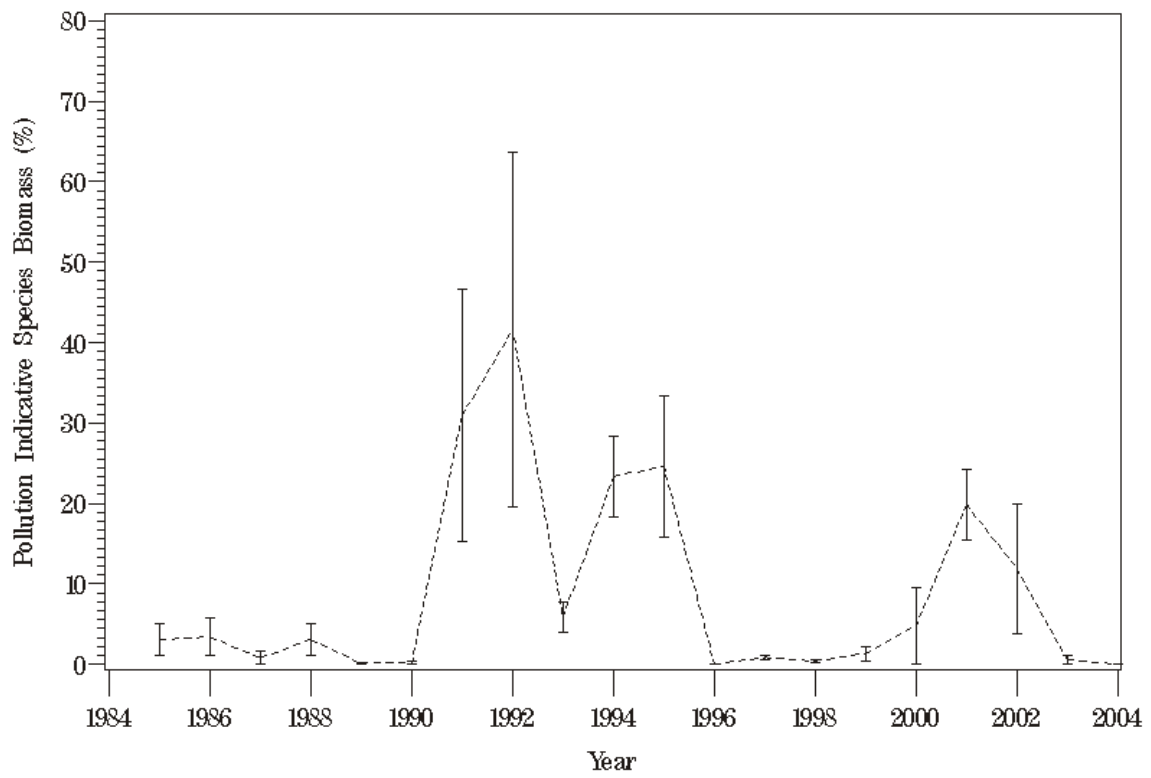


Figure L71. Plot of pollution indicative species biomass at station RET4.3 for 1985 through 2004.

## RET4.3 (2-YP)

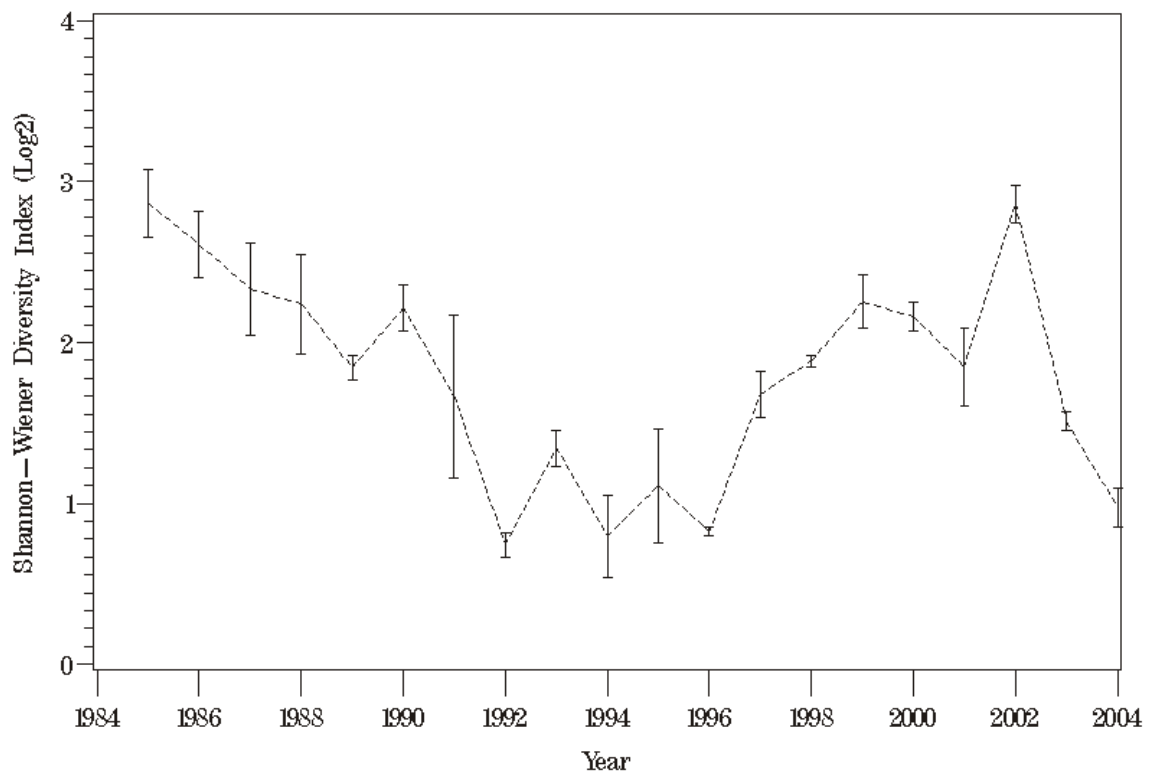


Figure L72. Plot of Shannon-Weiner diversity index at station RET4.3 for 1985 through 2004.

# LE4.1 (3-YP)

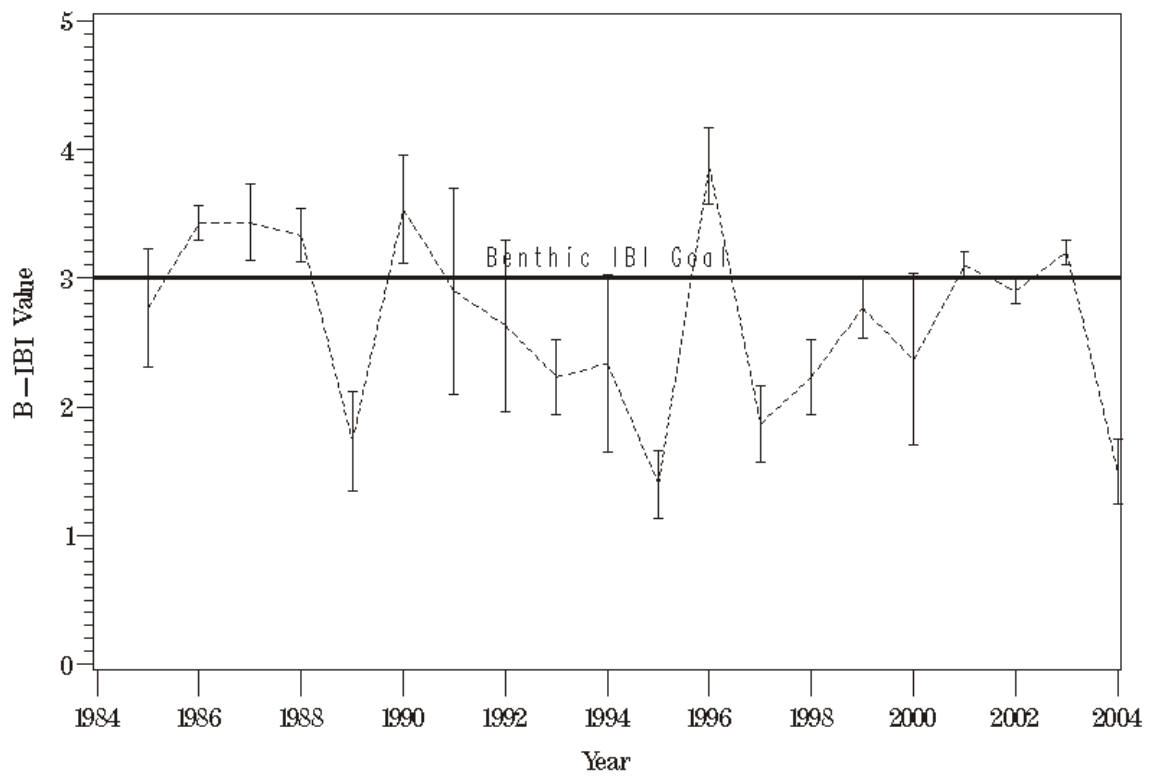


Figure L73. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2004.

## LE4.1 (3-YP)

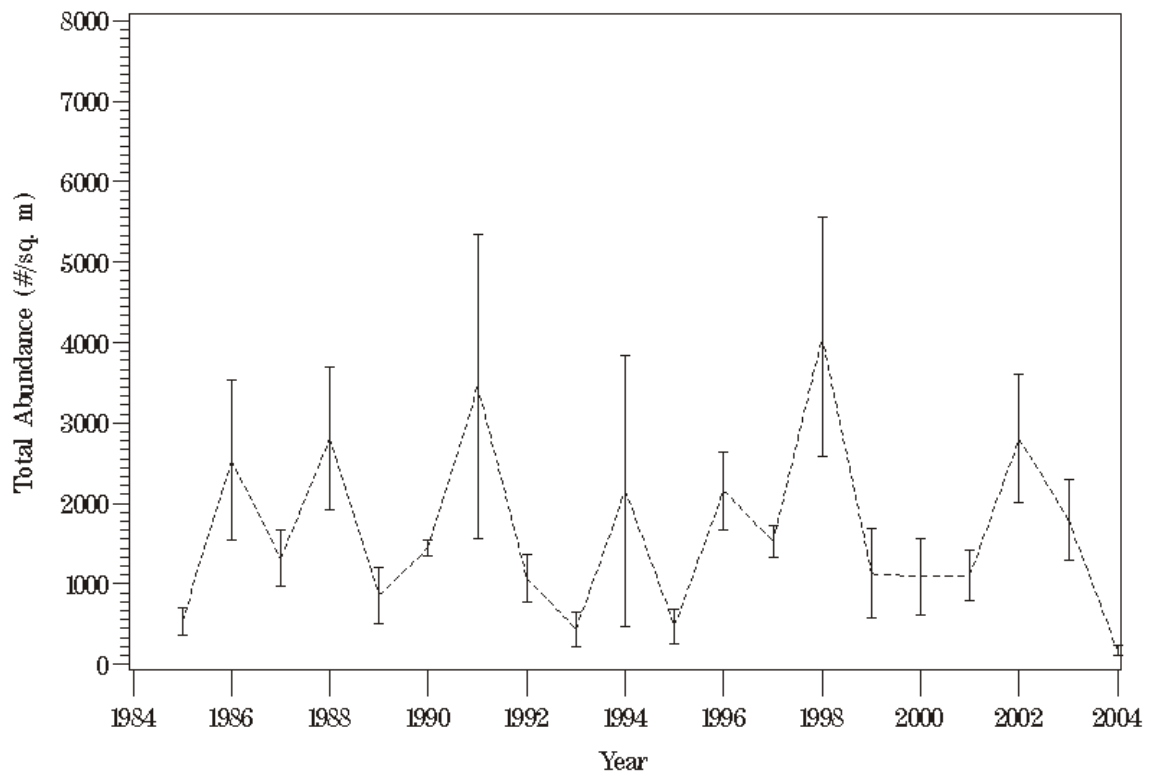


Figure L74. Plot of total benthic community abundance at station LE4.1 for 1985 through 2004.

## LE4.1 (3-YP)

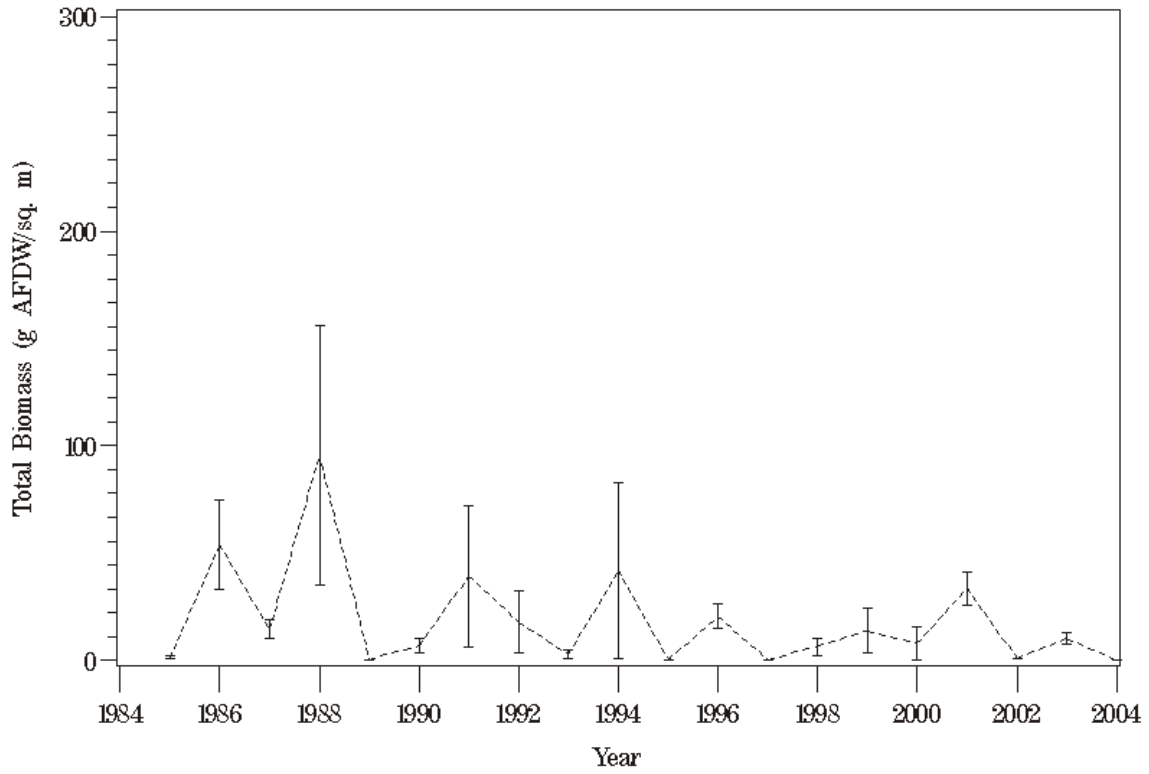


Figure L75. Plot of total benthic community biomass at station LE4.1 for 1985 through 2004.

# LE4.1 (3-YP)

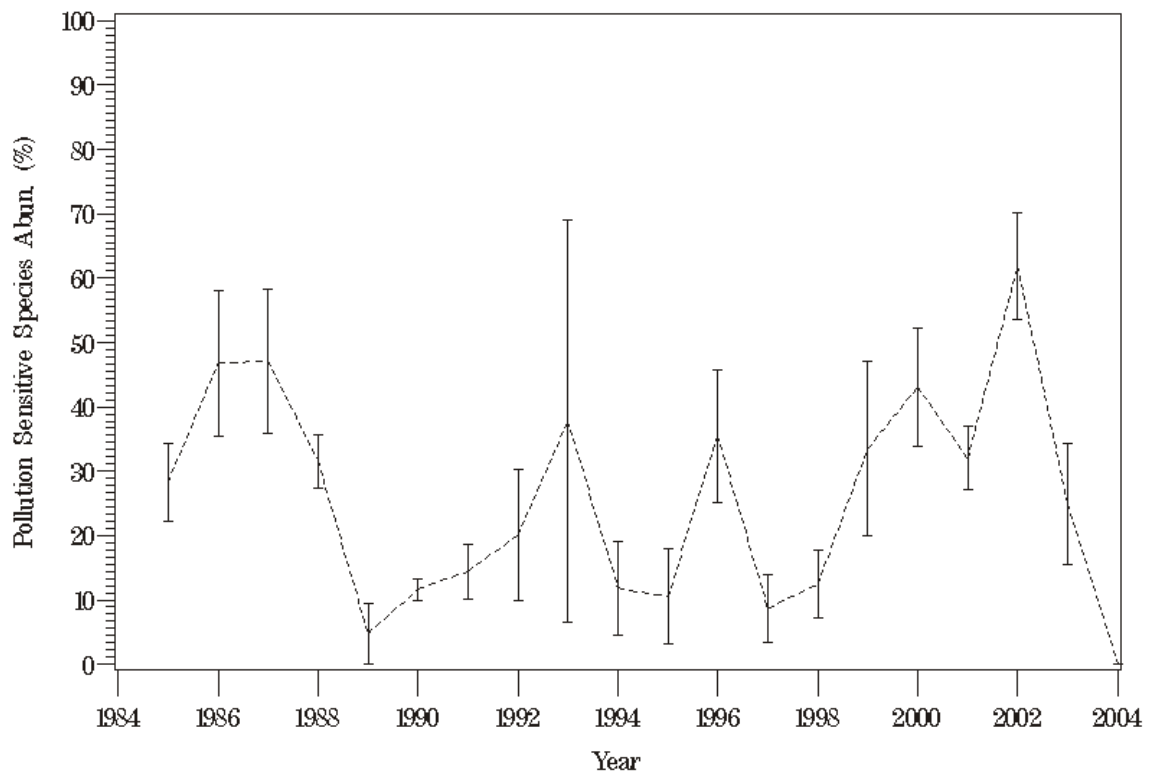


Figure L76. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2004.

# LE4.1 (3-YP)

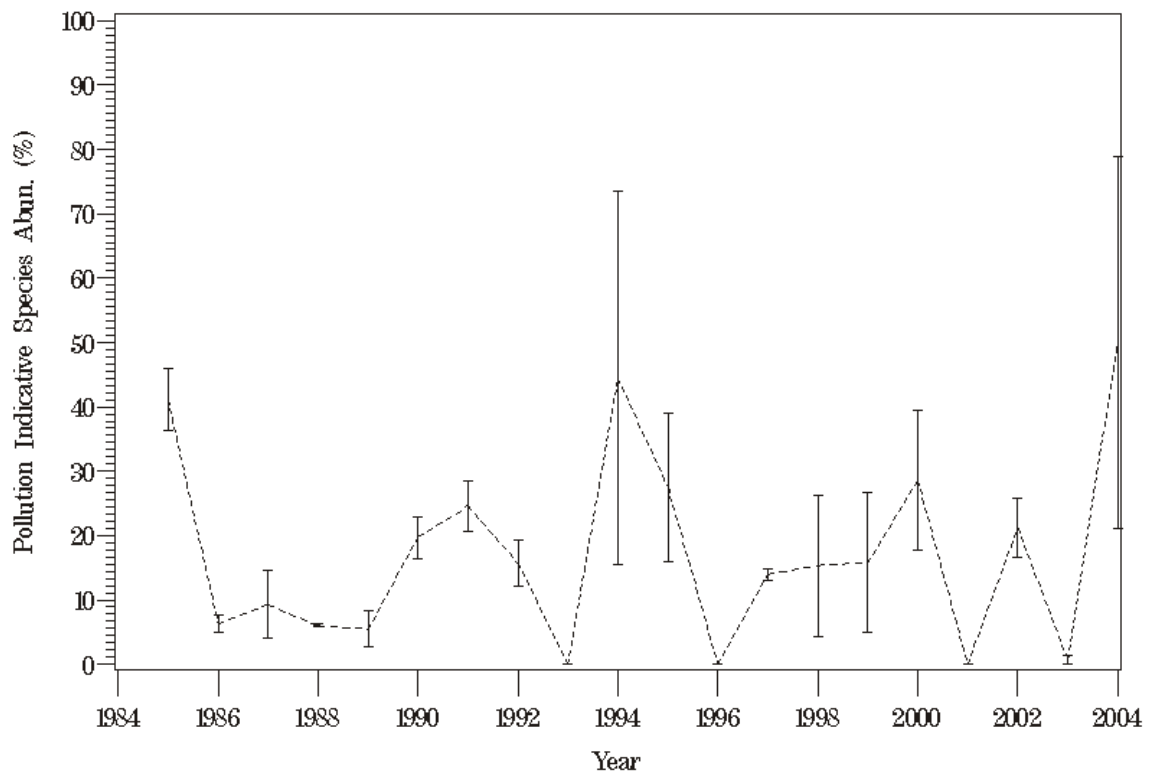


Figure L77. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2004.



### LE4.1 (3-YP)

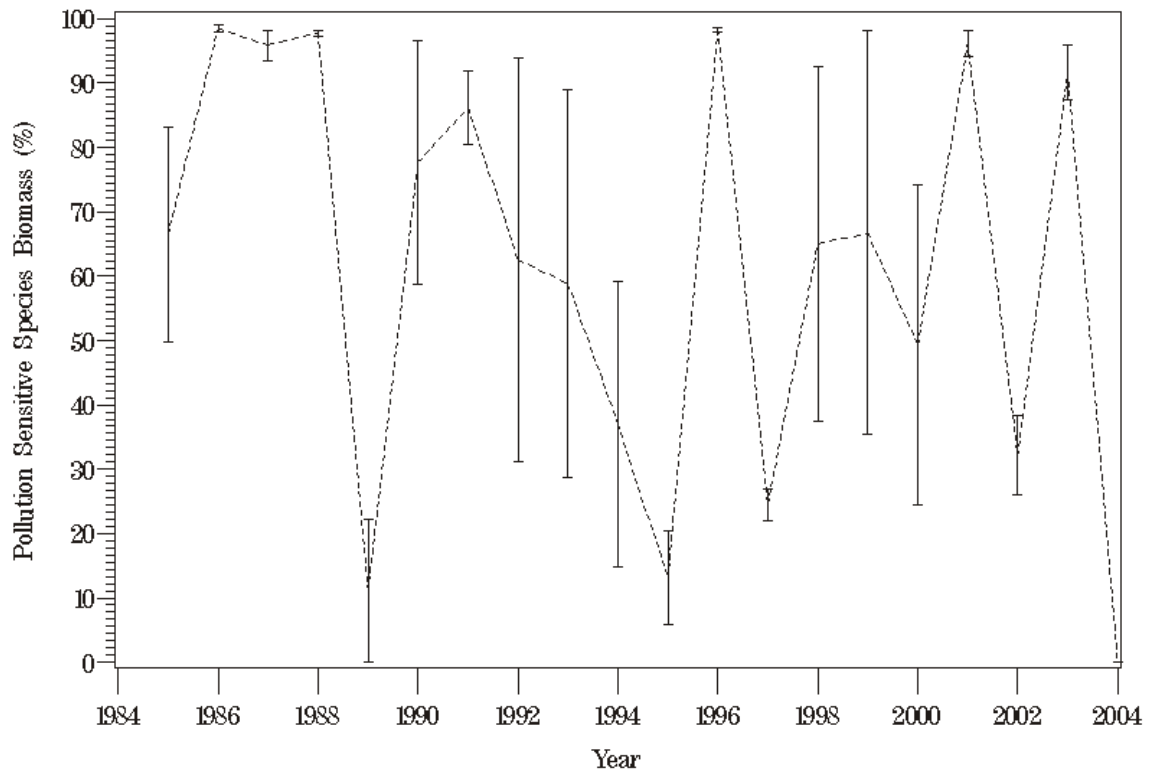


Figure L78. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2004.

# LE4.1 (3-YP)

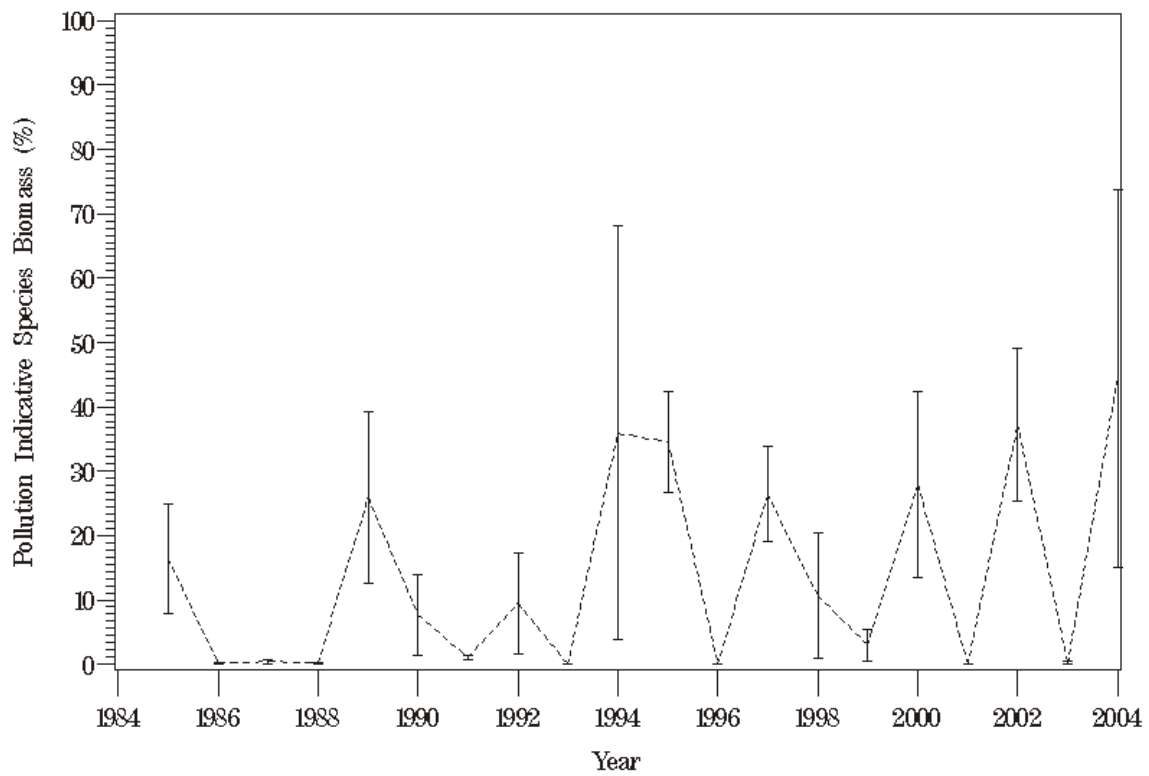


Figure L79. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2004.

## LE4.1 (3-YP)

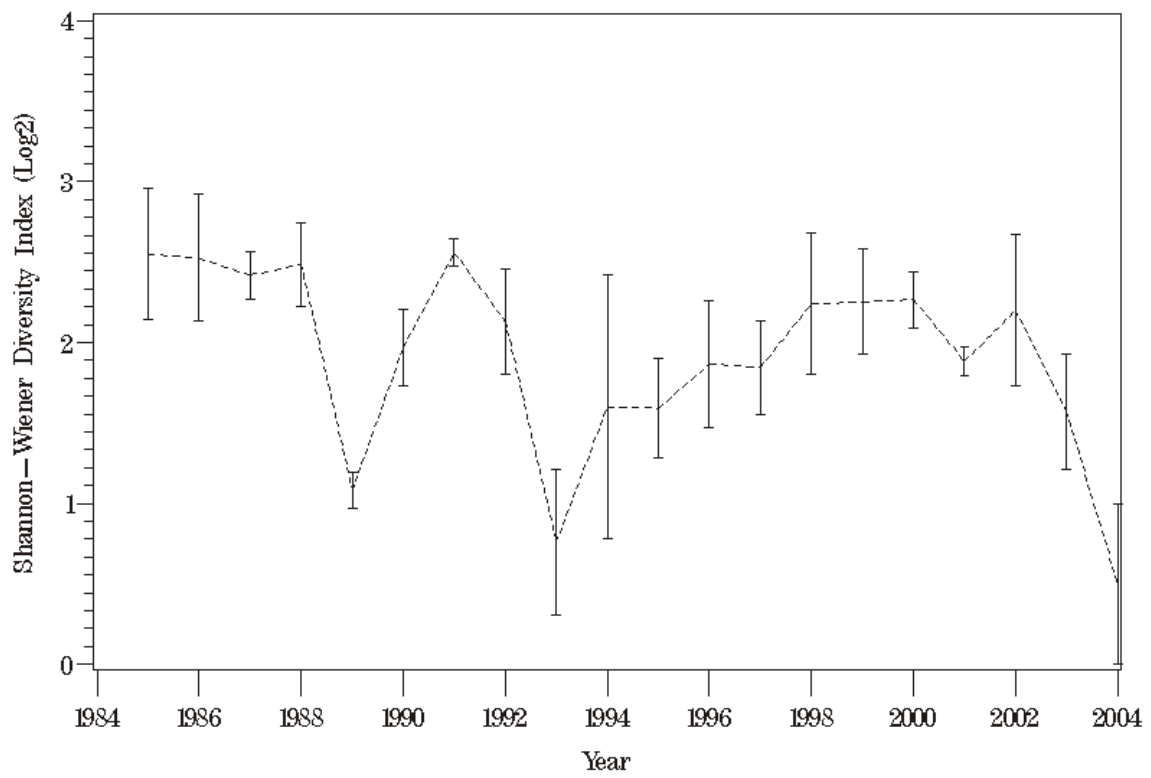


Figure L80. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2004.

# LE4.3 (4-YP)

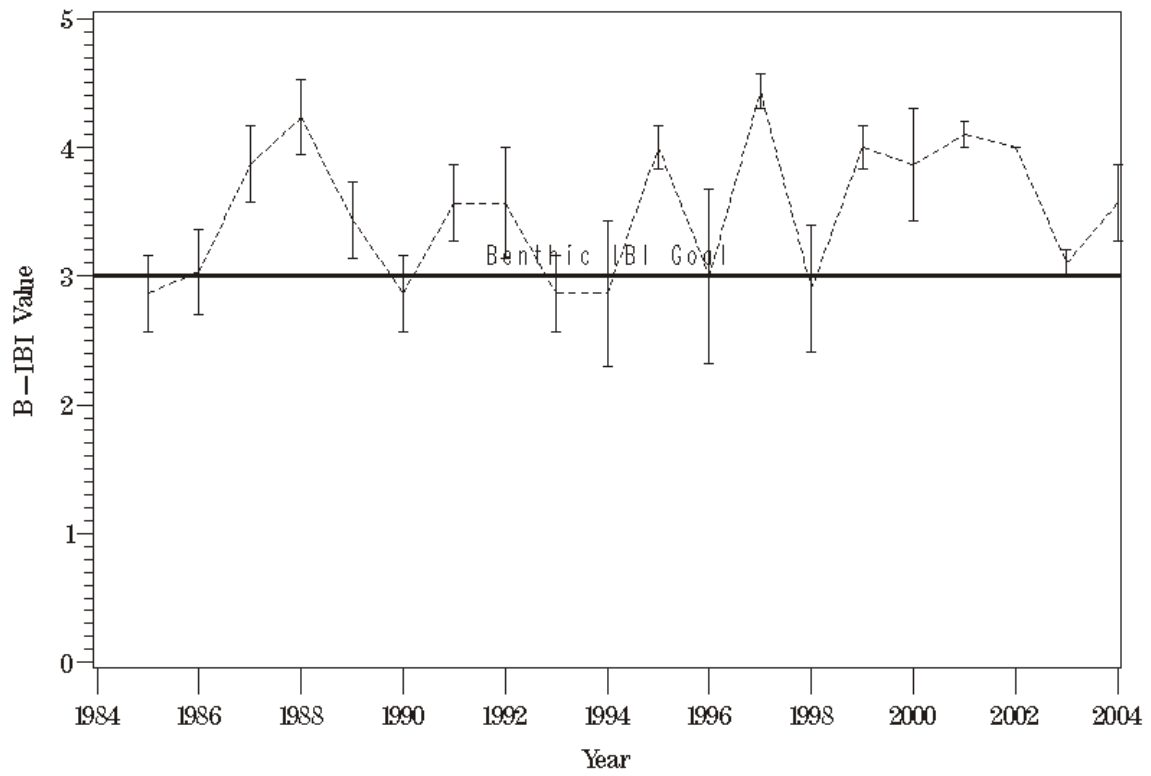


Figure L81. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

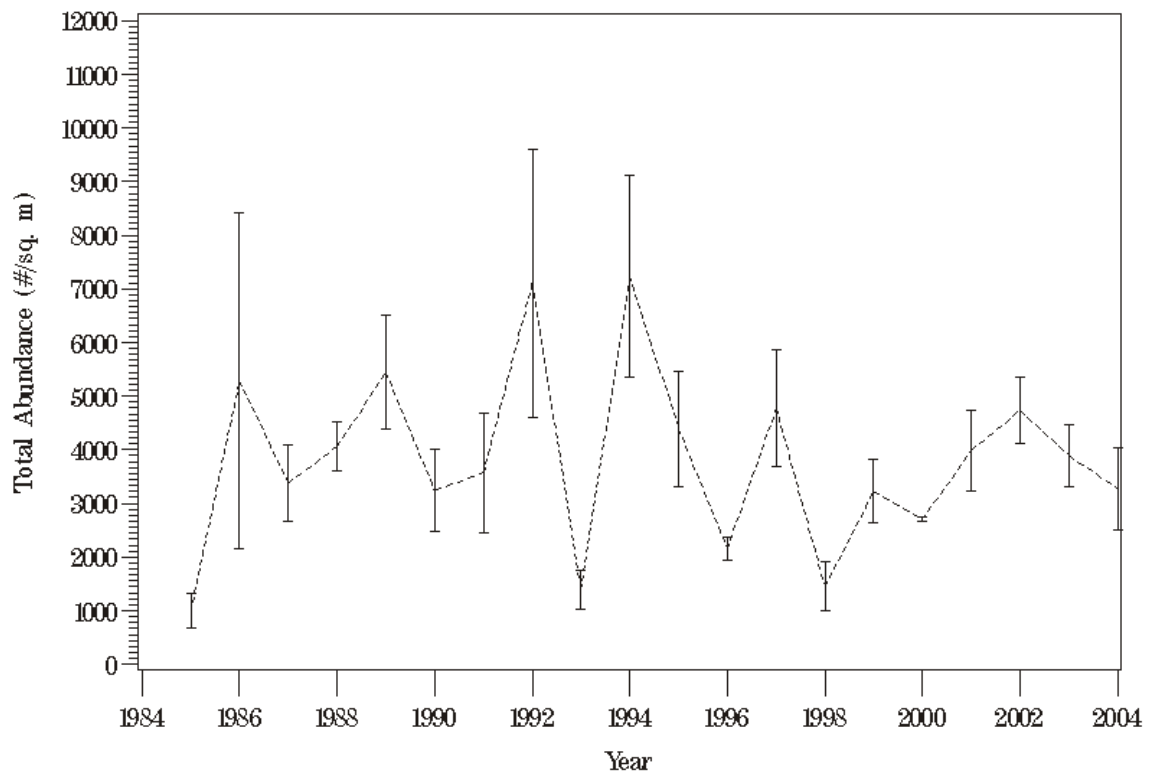


Figure L82. Plot of total benthic community abundance at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

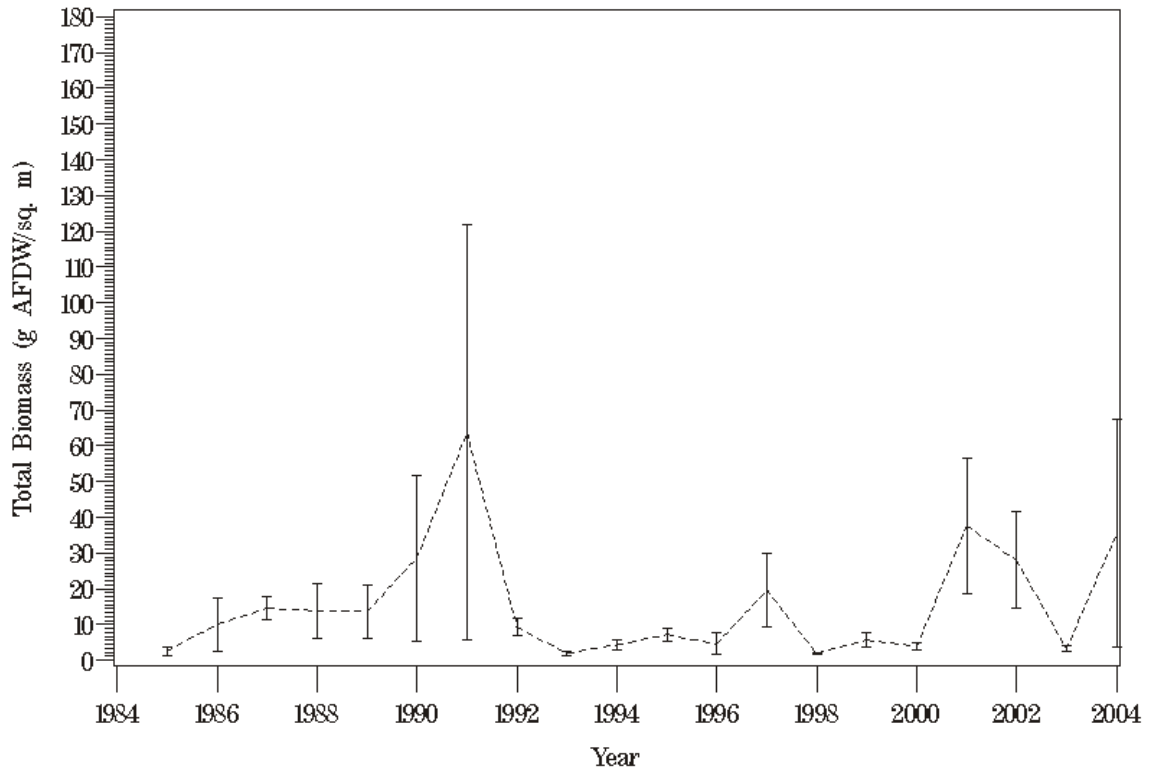


Figure L83. Plot of total benthic community biomass at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

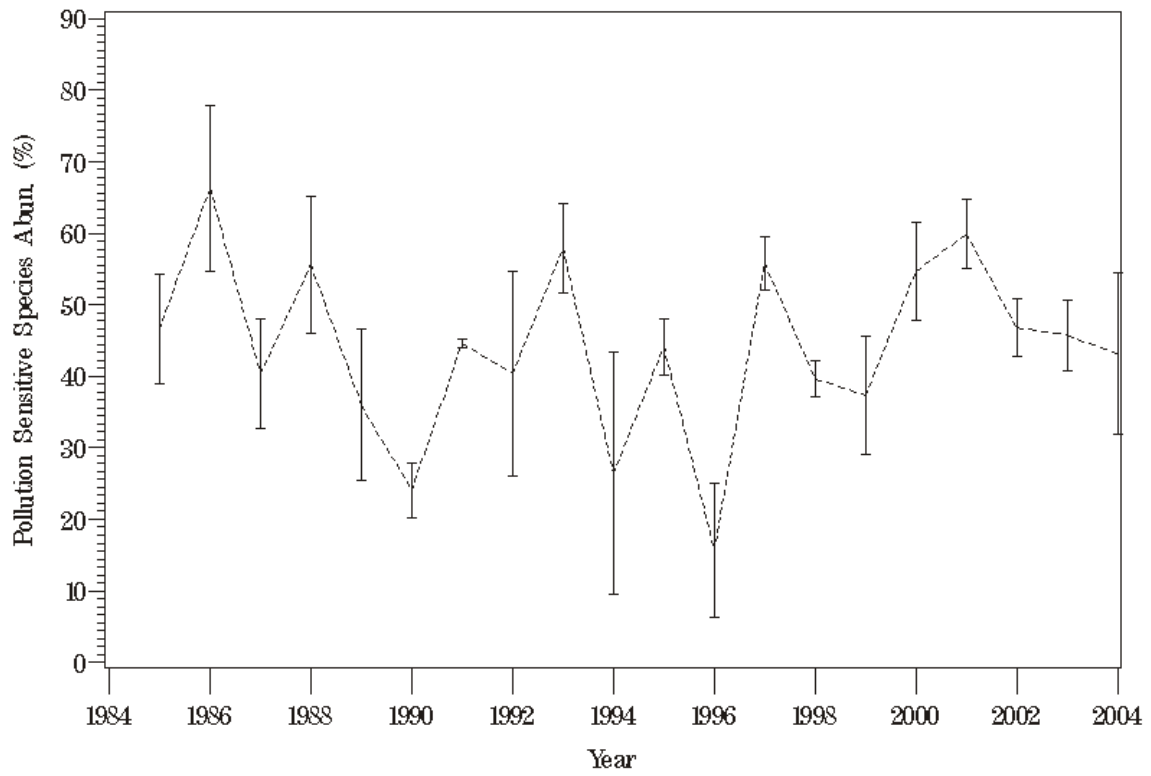


Figure L84. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

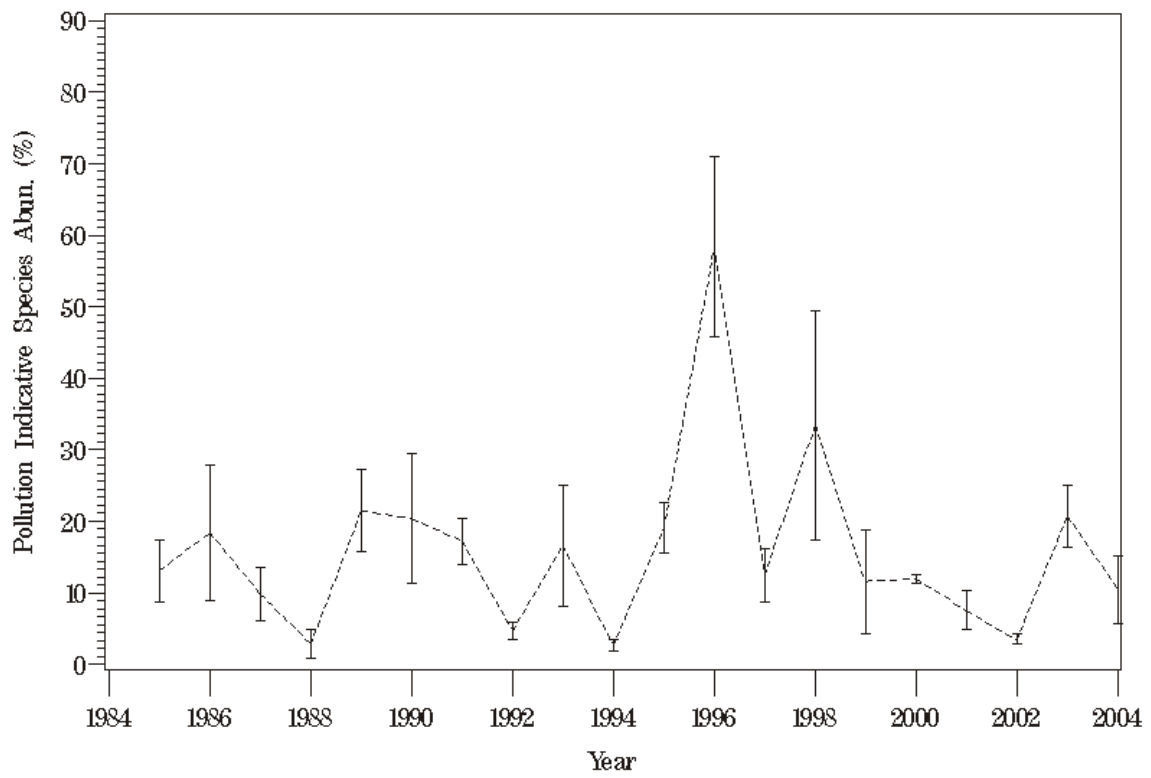


Figure L85. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2004.



# LE4.3 (4-YP)

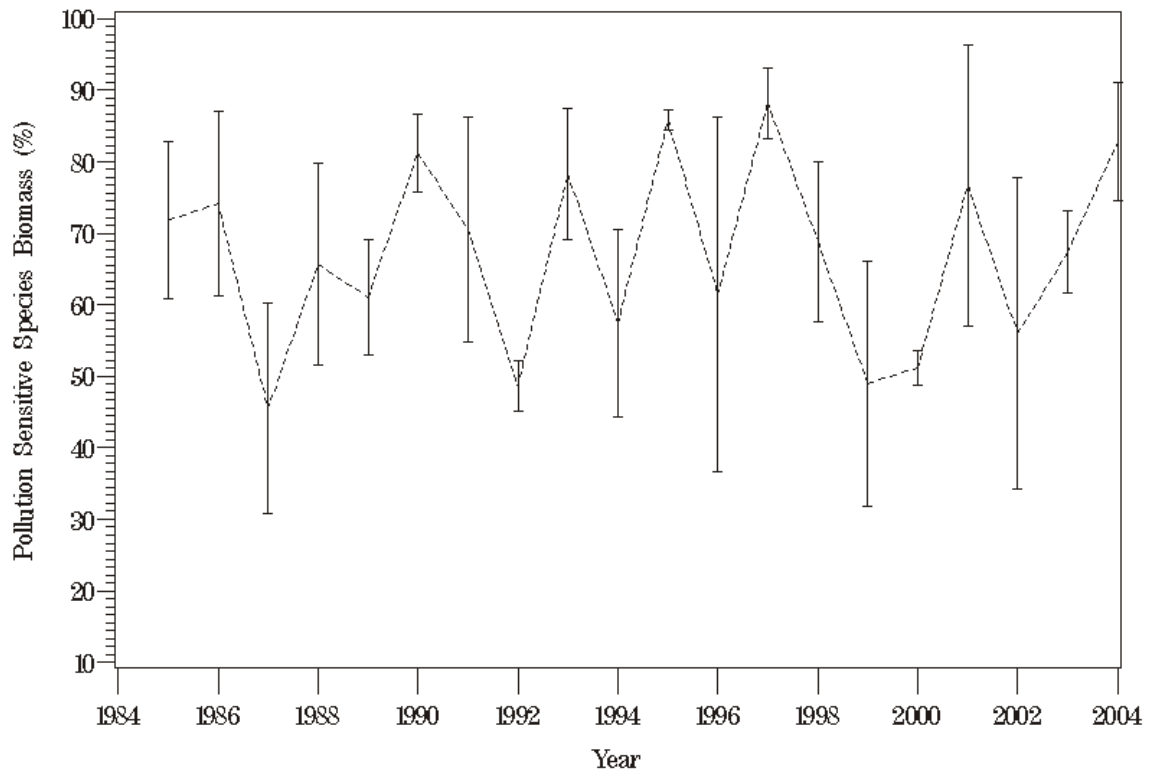


Figure L86. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

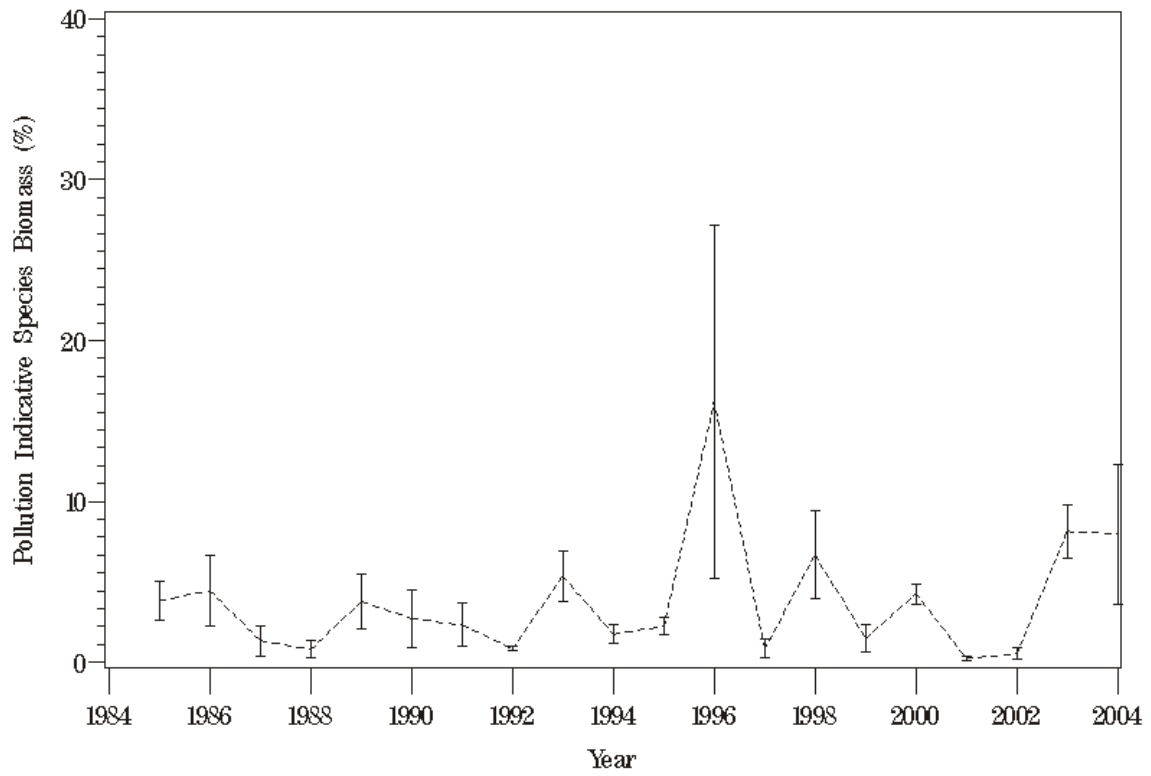


Figure L87. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2004.

## LE4.3 (4-YP)

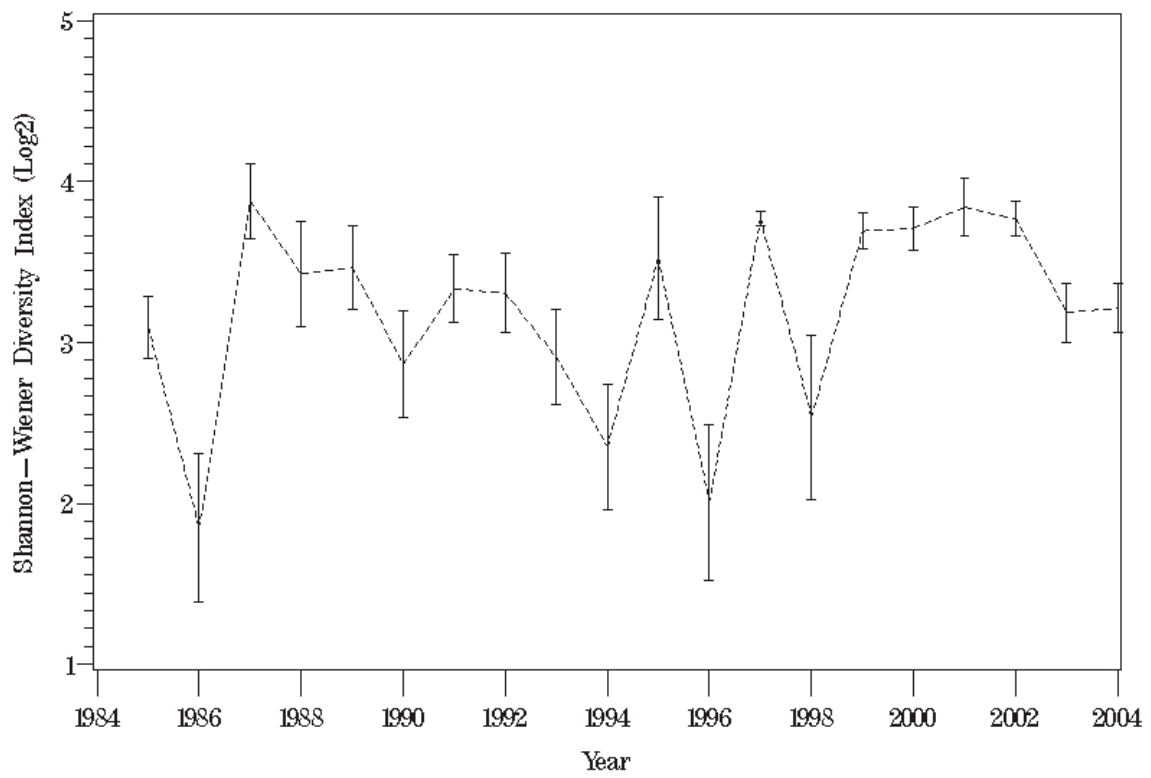


Figure L88. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2004.

## LE4.3B (5-YP)

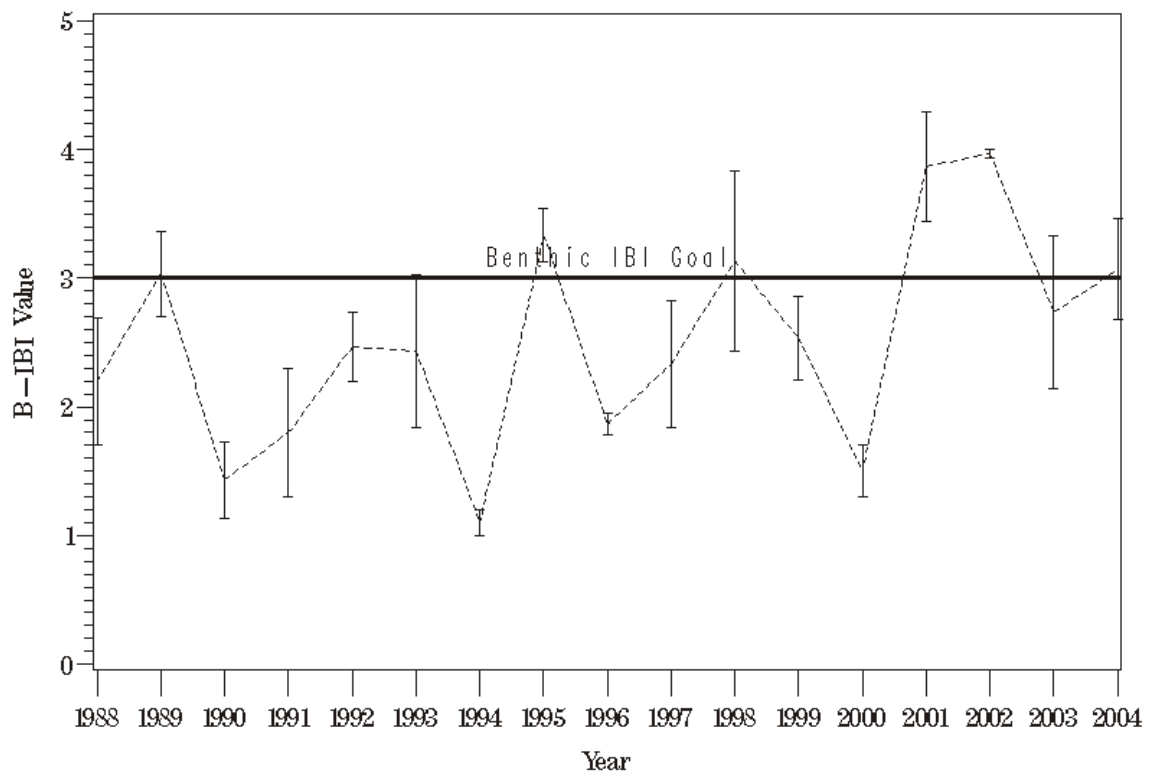


Figure L89. Plot of the benthic IBI against time at station LE4.3B for 1985 through 2004.

## LE4.3B (5-YP)

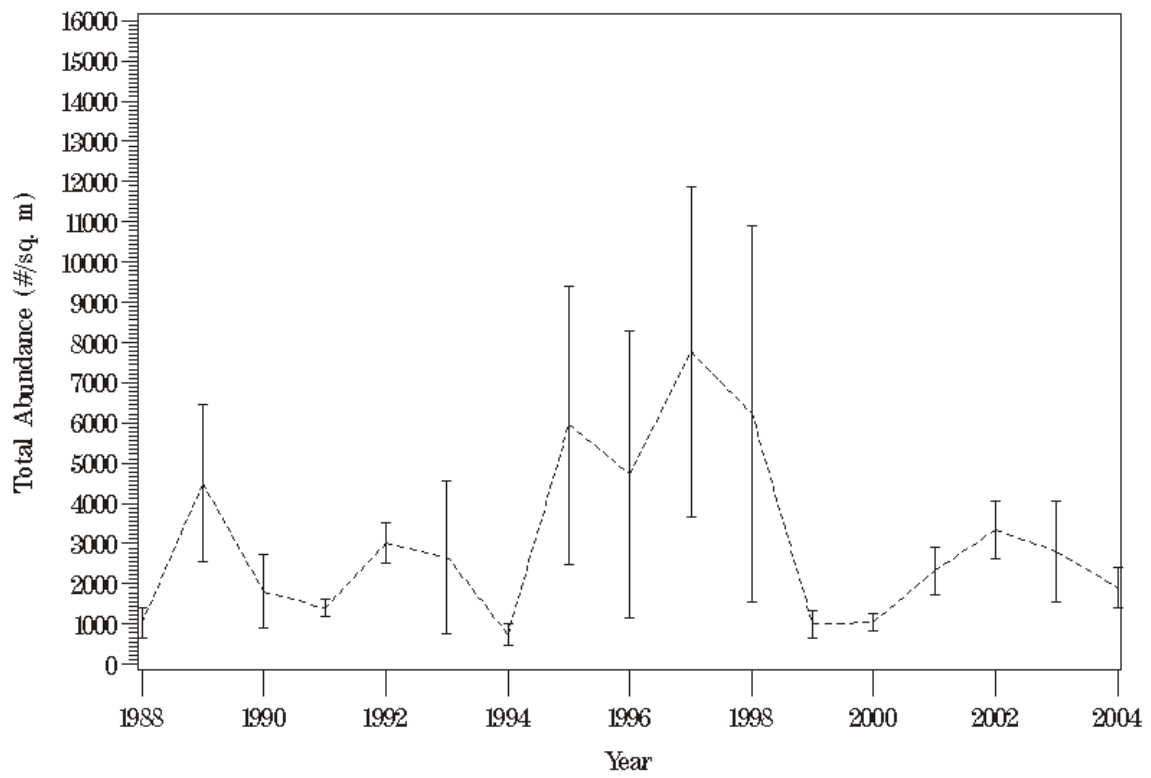


Figure L90. Plot of total benthic community abundance at station LE4.3B for 1985 through 2004.

# LE4.3B (5-YP)

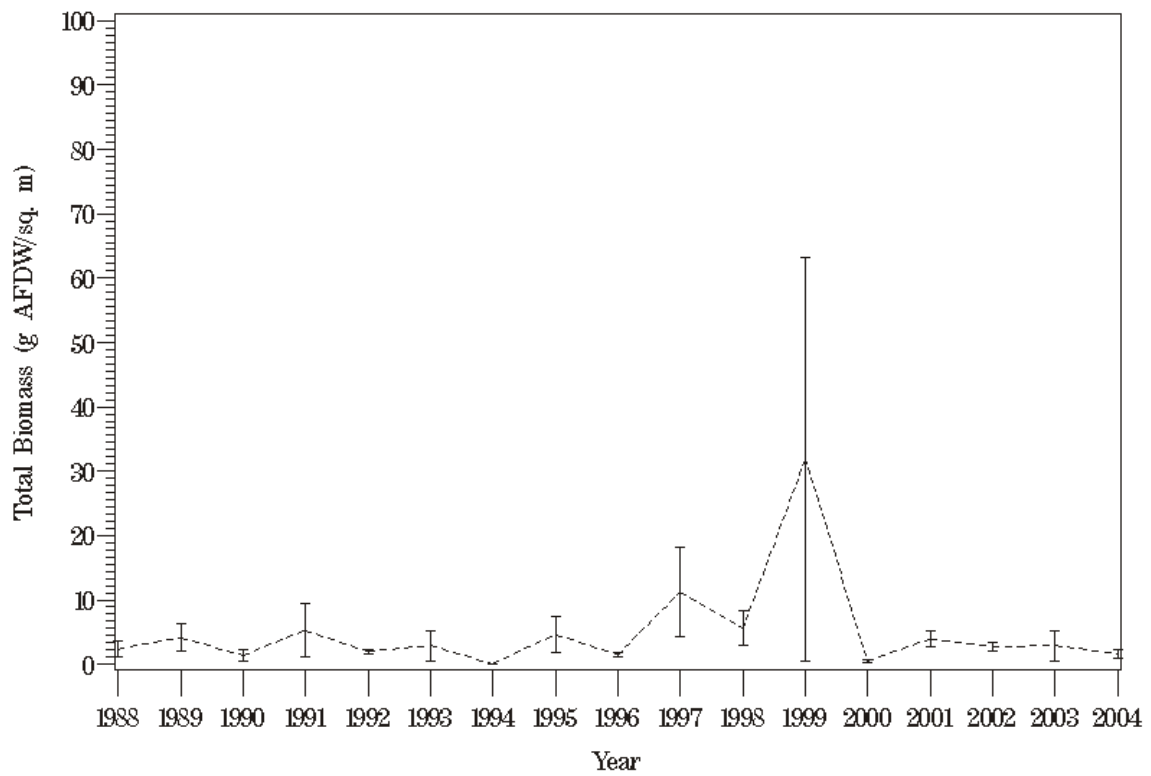


Figure L91. Plot of total benthic community biomass at station LE4.3B for 1985 through 2004.

# LE4.3B (5-YP)

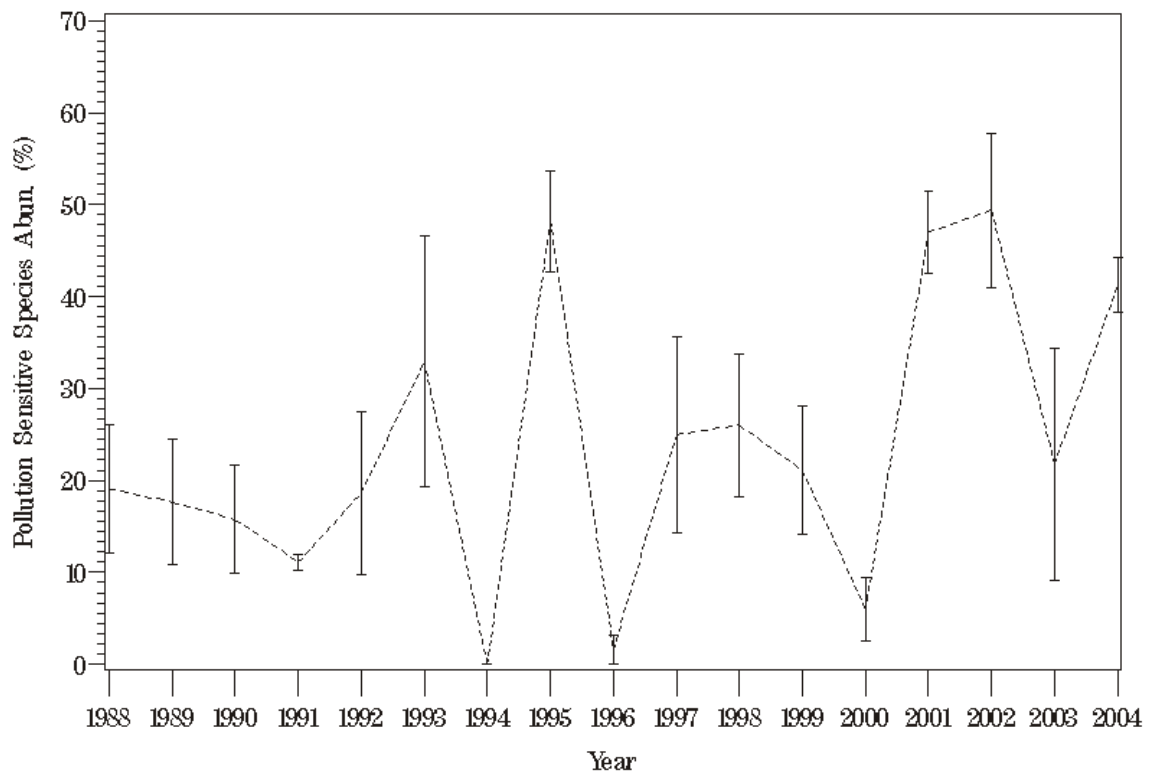


Figure L92. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2004.

## LE4.3B (5-YP)

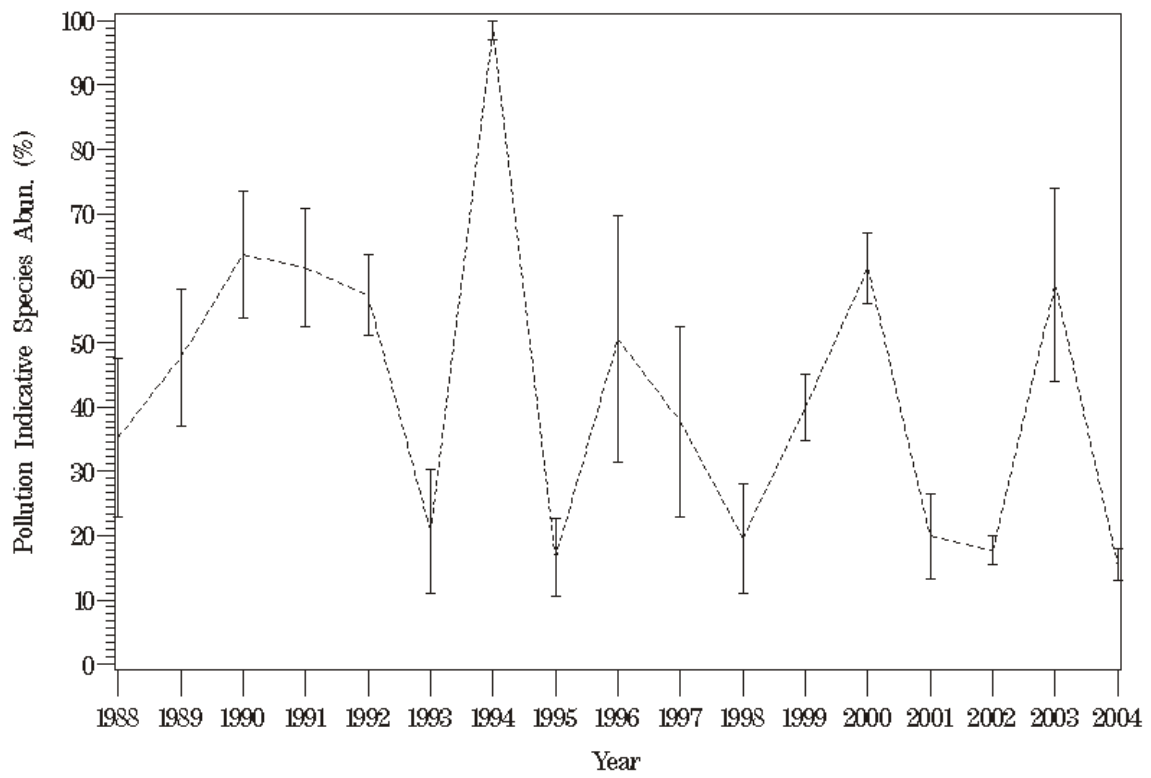


Figure L93. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2004.



## LE4.3B (5-YR)

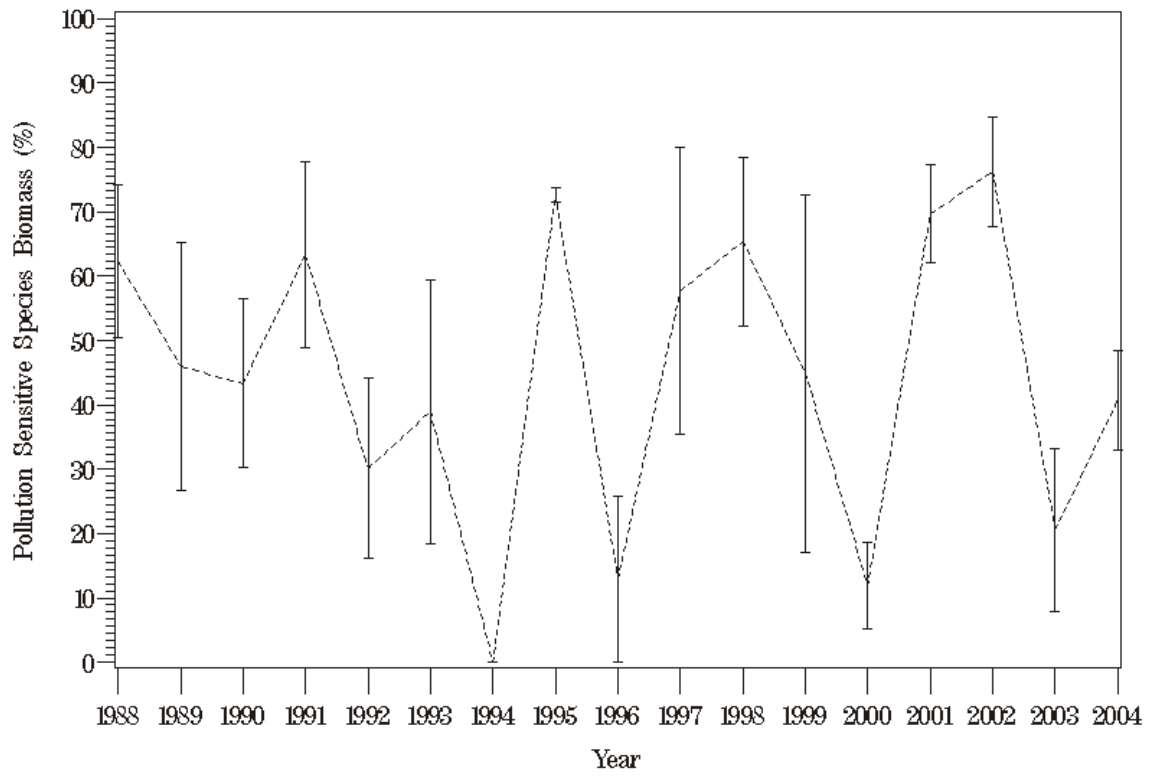


Figure L94. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2004.

## LE4.3B (5-YP)

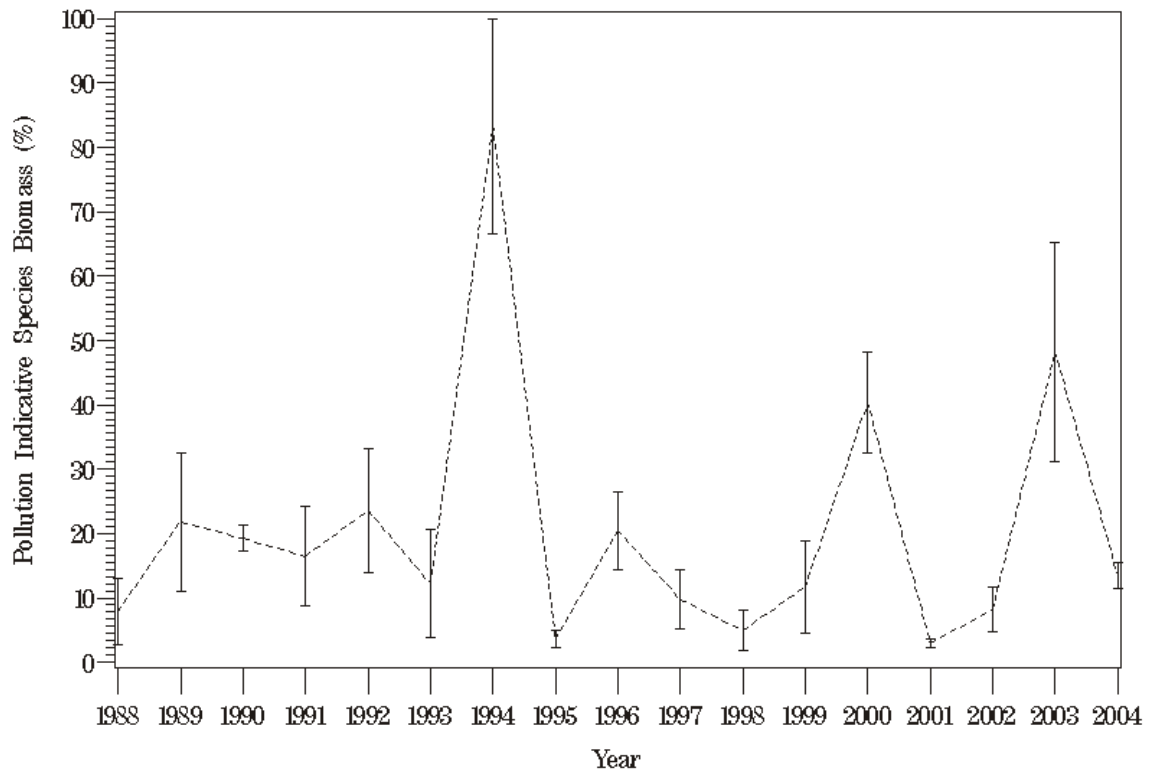


Figure L95. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2004.

## LE4.3B (5-YP)

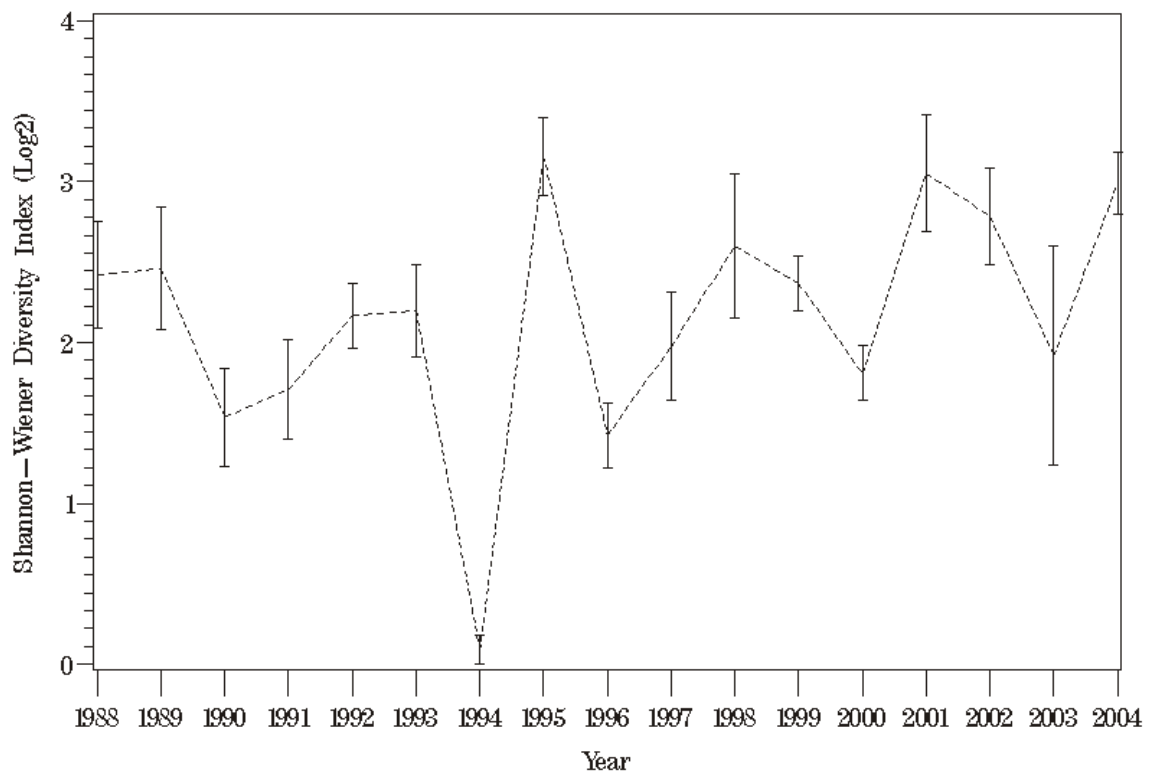


Figure L96. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2004.

# TF3.3 (1-R)

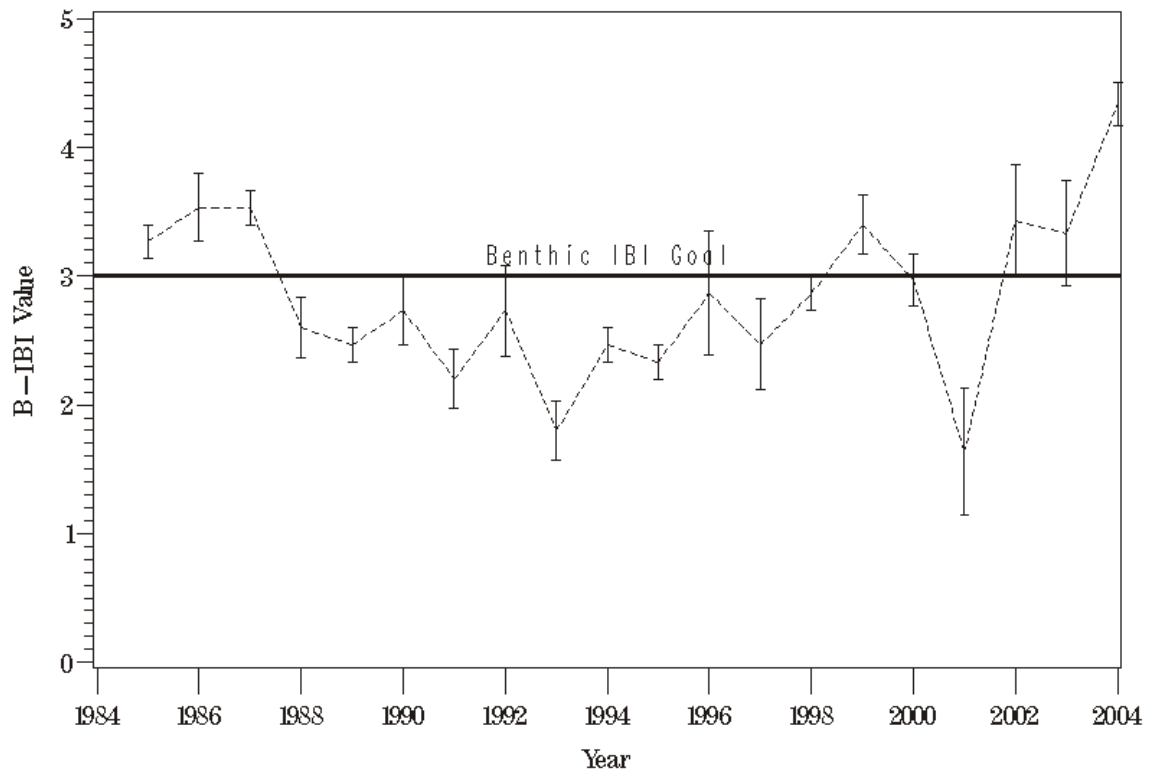


Figure L97. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2004.

# TF3.3 (1-R)

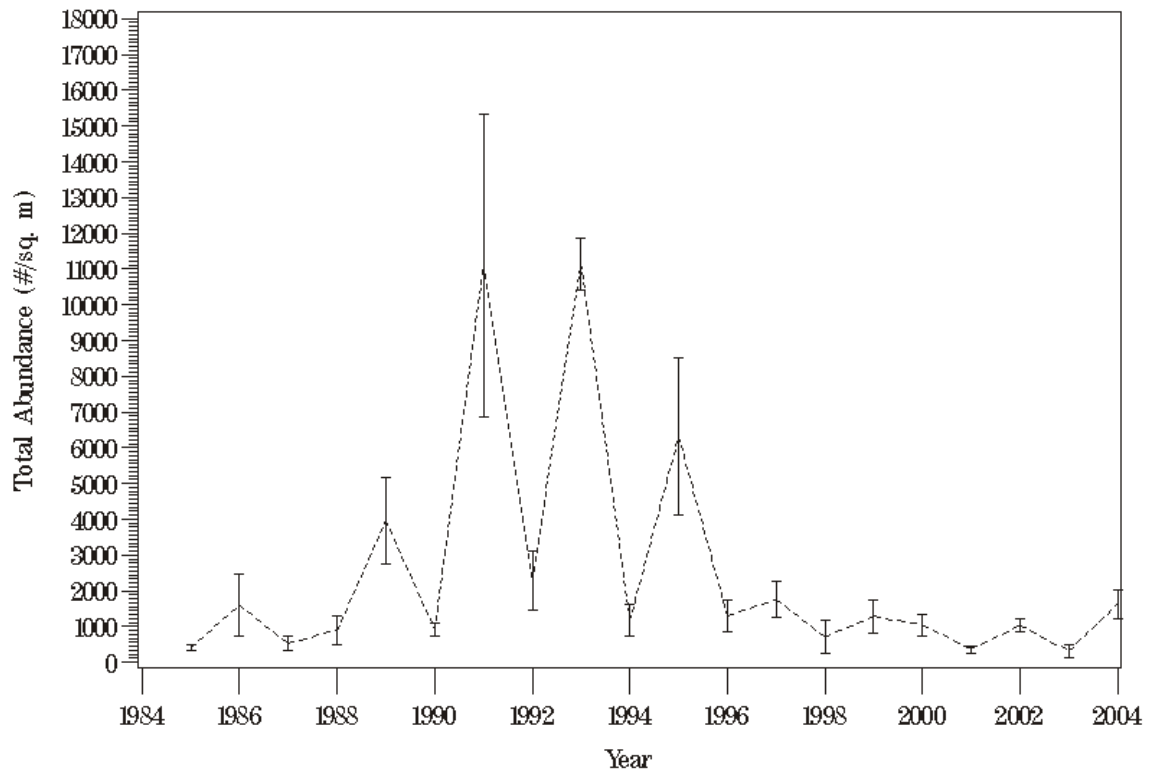


Figure L98. Plot of total benthic community abundance at station TF3.3 for 1985 through 2004.

### TF3.3 (1-R)

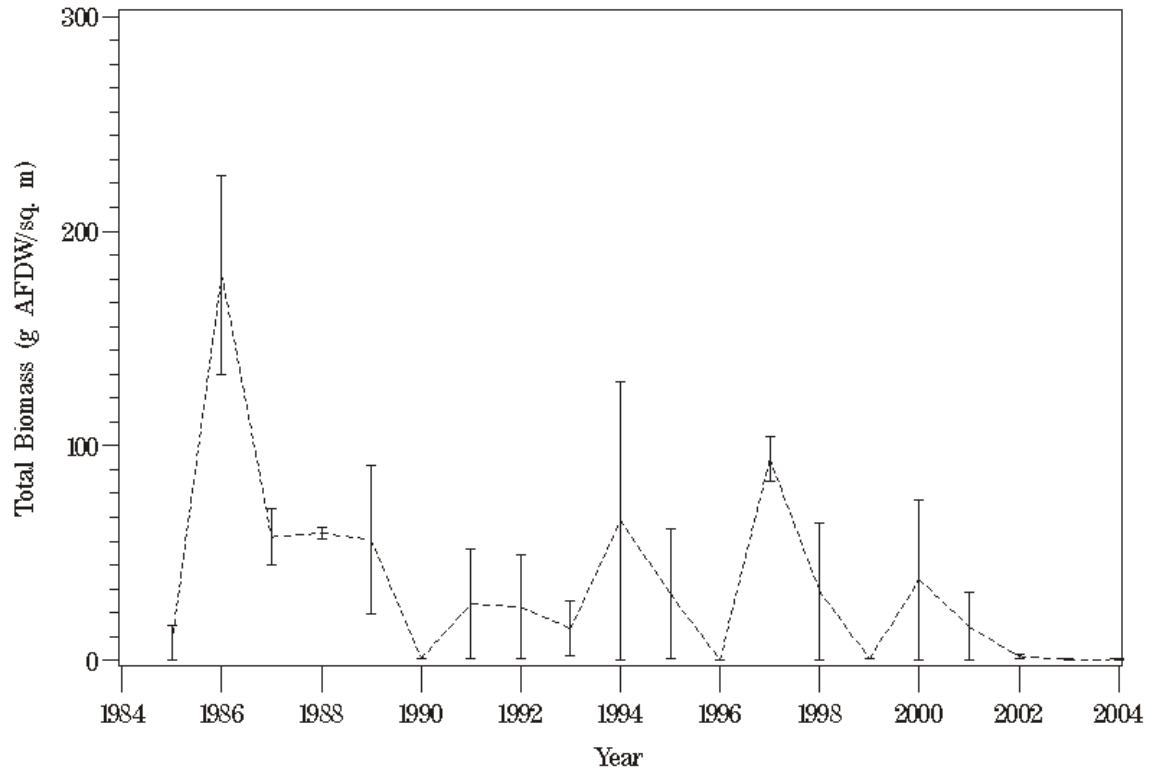


Figure L99. Plot of total benthic community biomass at station TF3.3 for 1985 through 2004.

### TF3.3 (1-R)

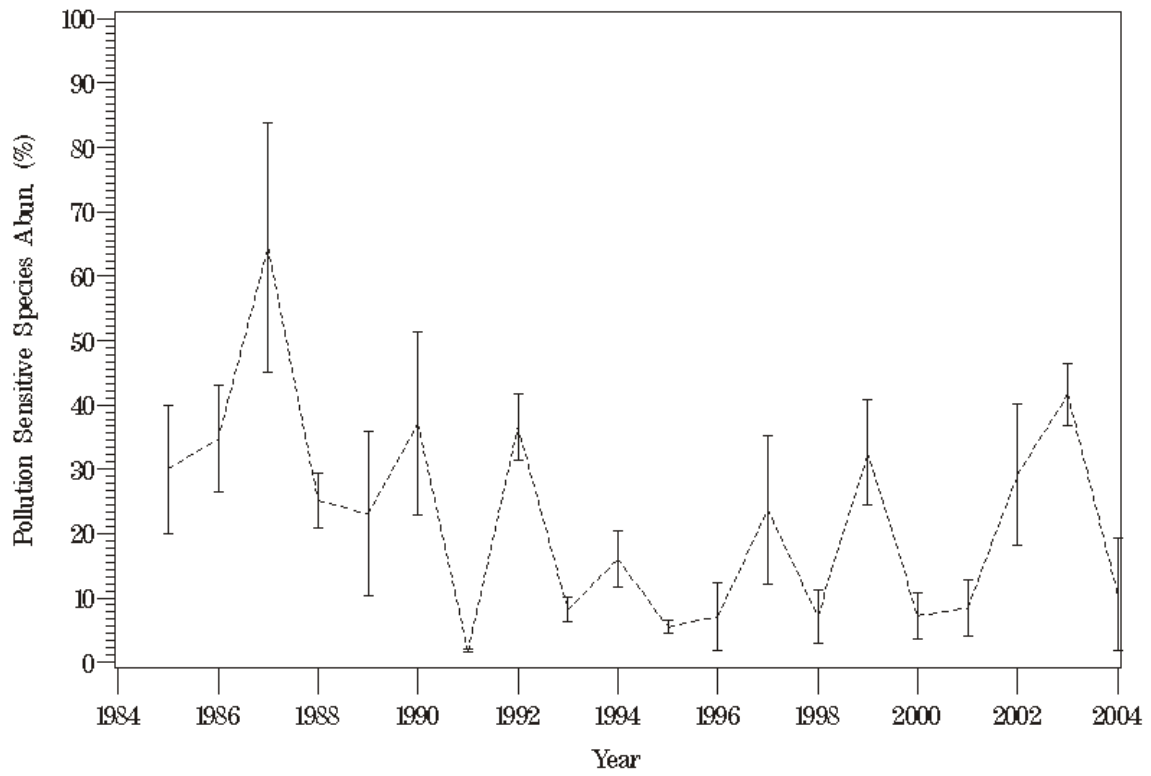


Figure L100. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2004.

# TF3.3 (1-R)

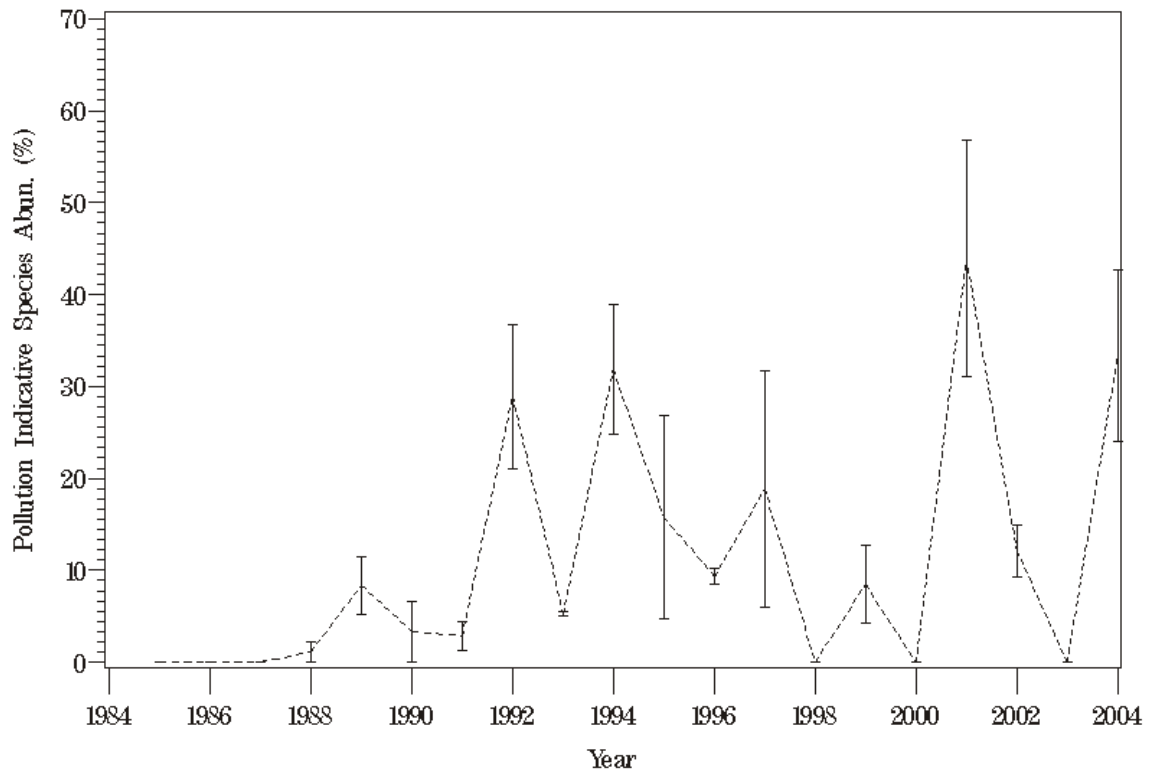


Figure L101. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2004.



# TF3.3 (1-R)

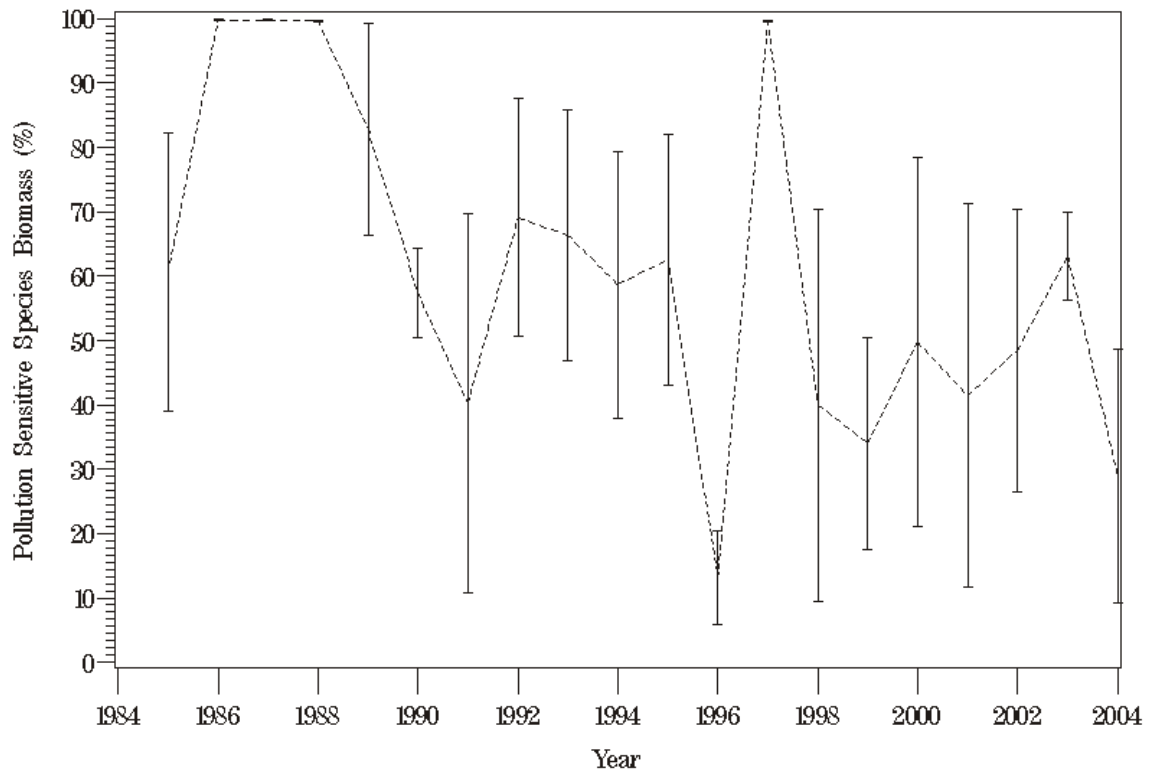


Figure L102. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2004.

### TF3.3 (1-R)

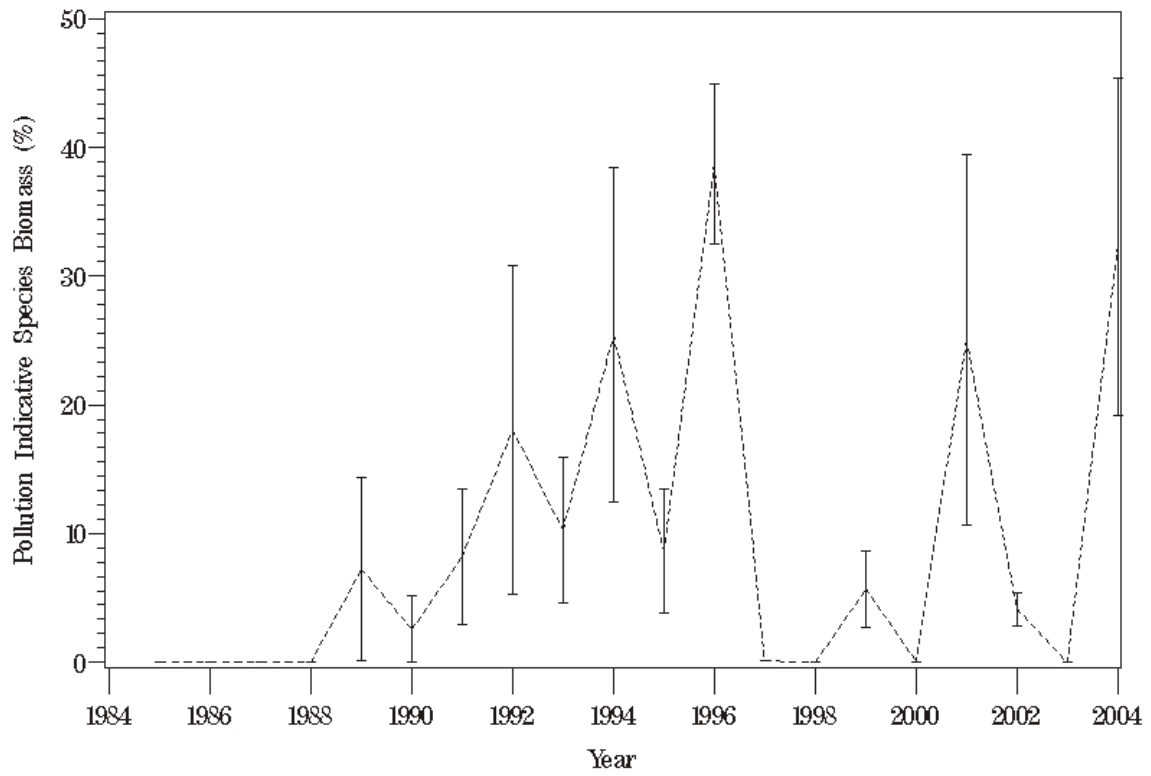


Figure L103. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2004.

### TF3.3 (1-R)

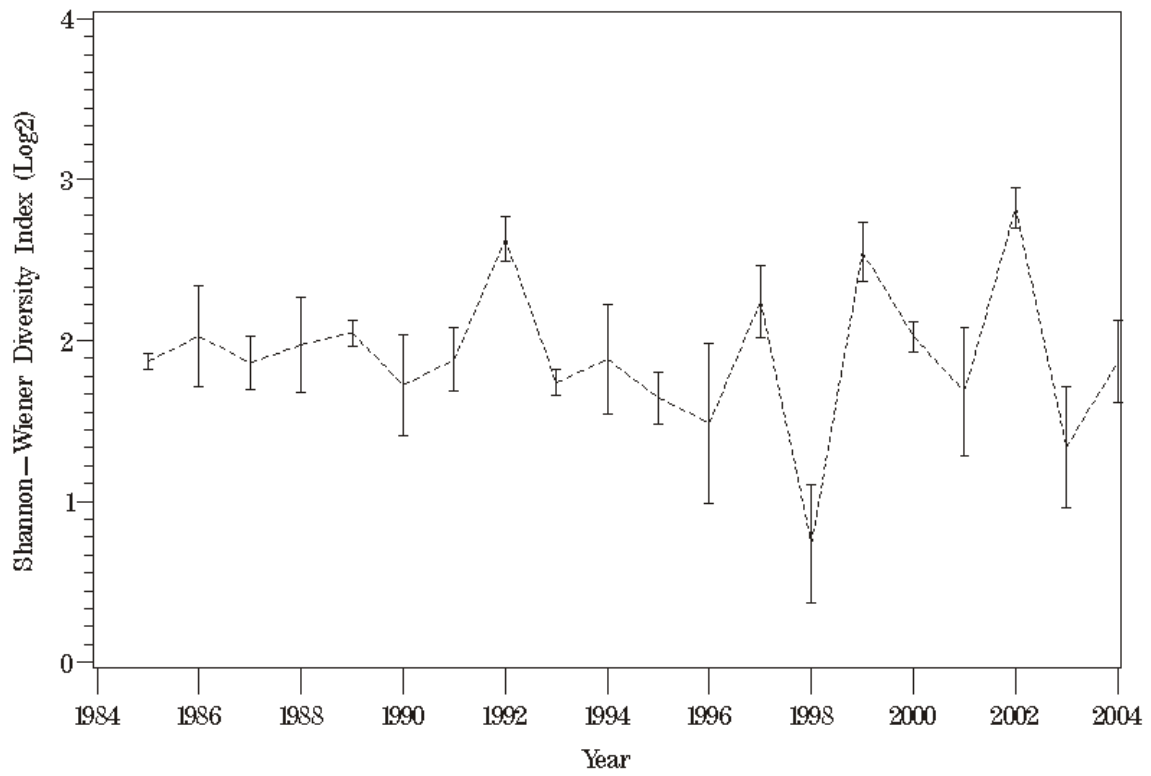


Figure L104. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2004.

# RET3.1 (2-R)

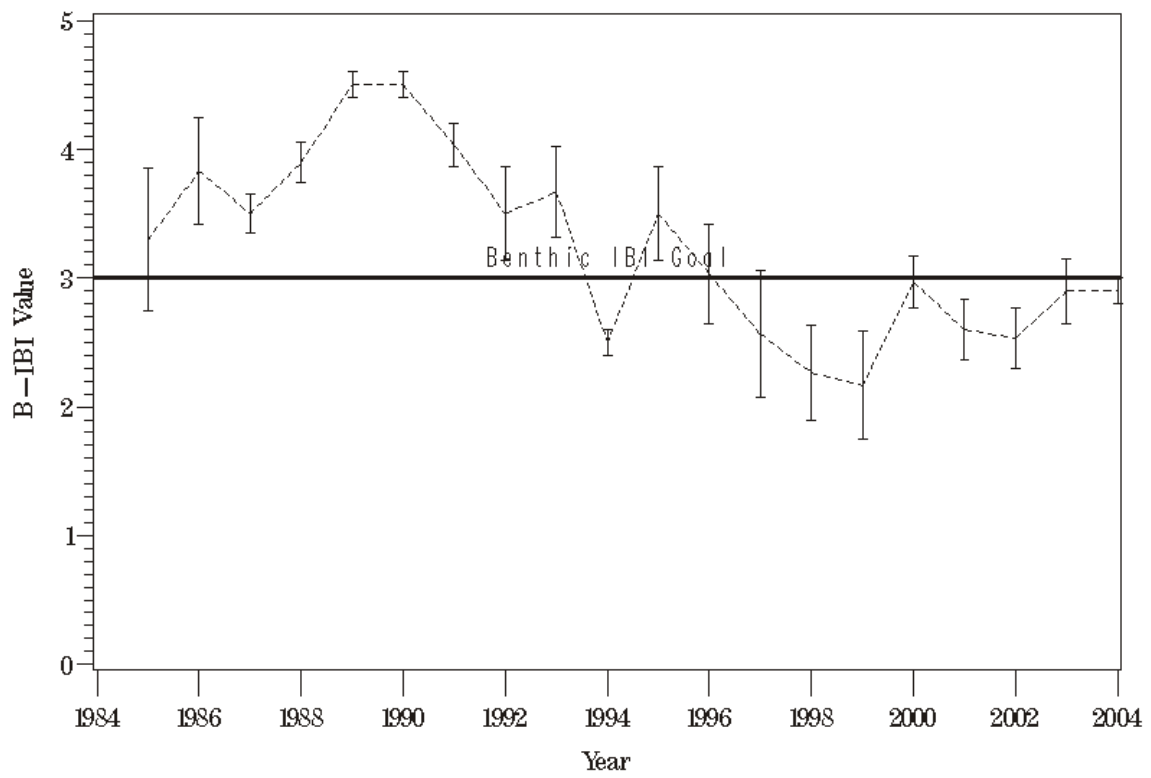


Figure L105. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

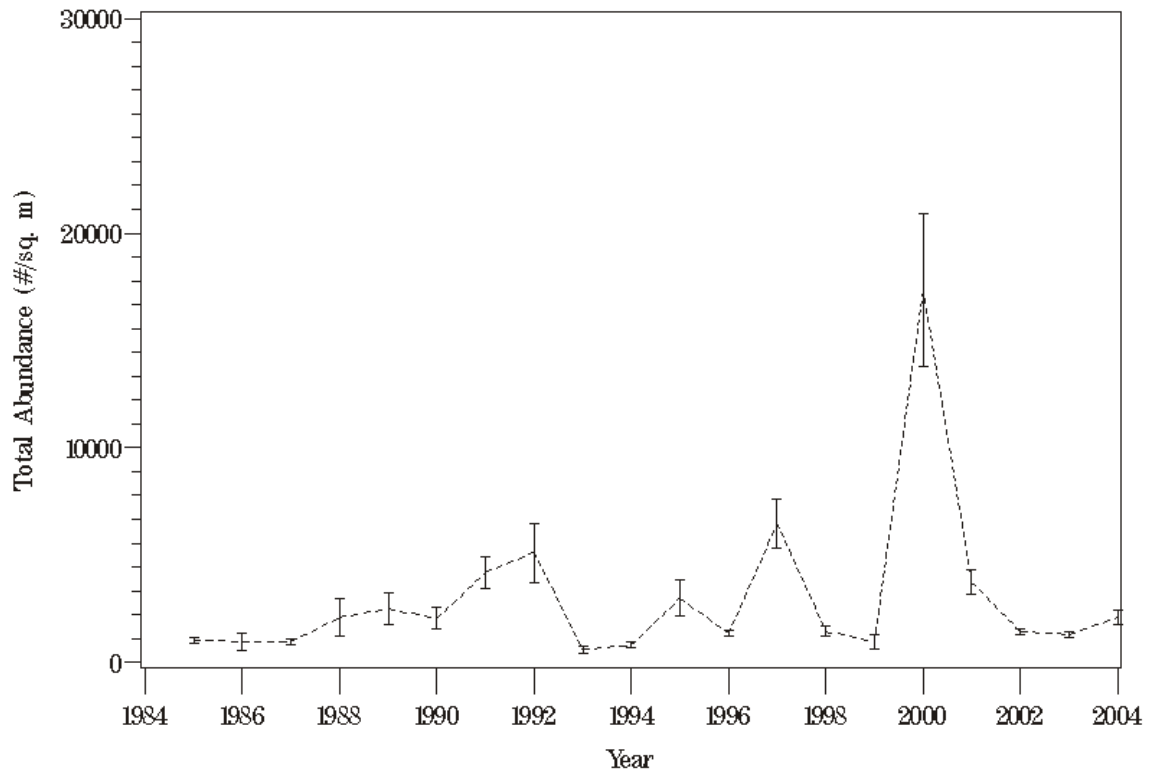


Figure L106. Plot of total benthic community abundance at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

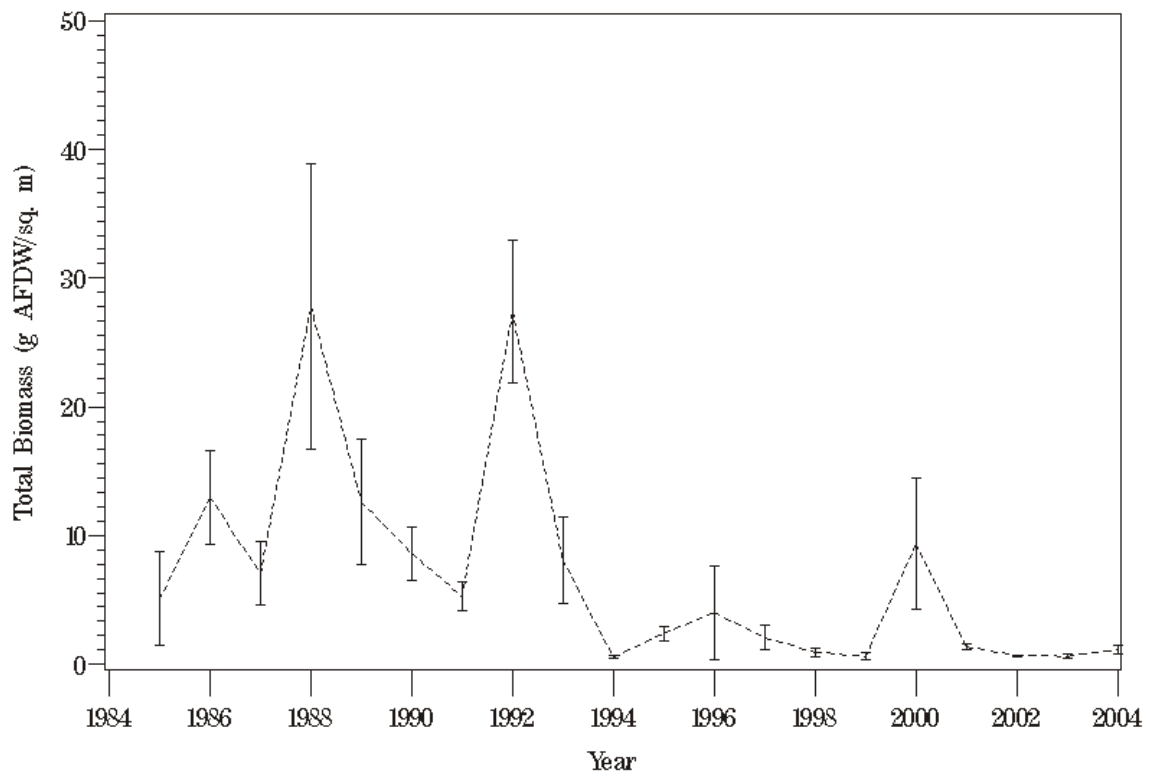


Figure L107. Plot of total benthic community biomass at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

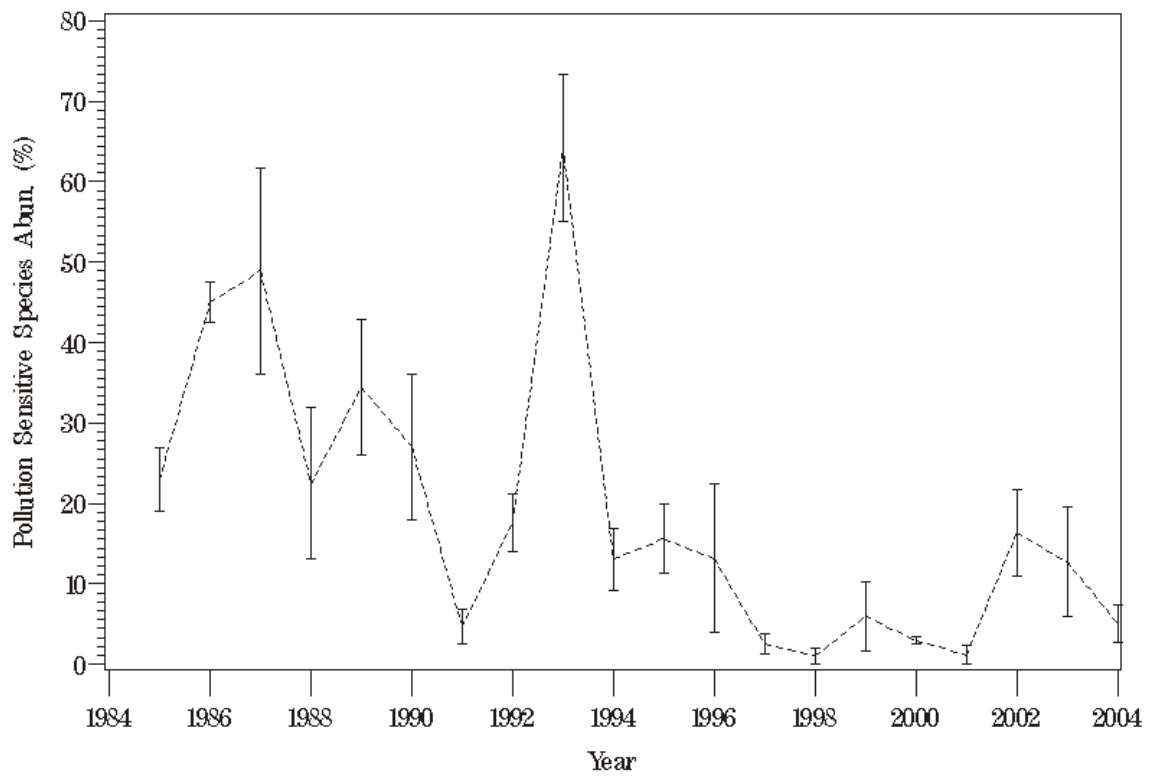


Figure L108. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

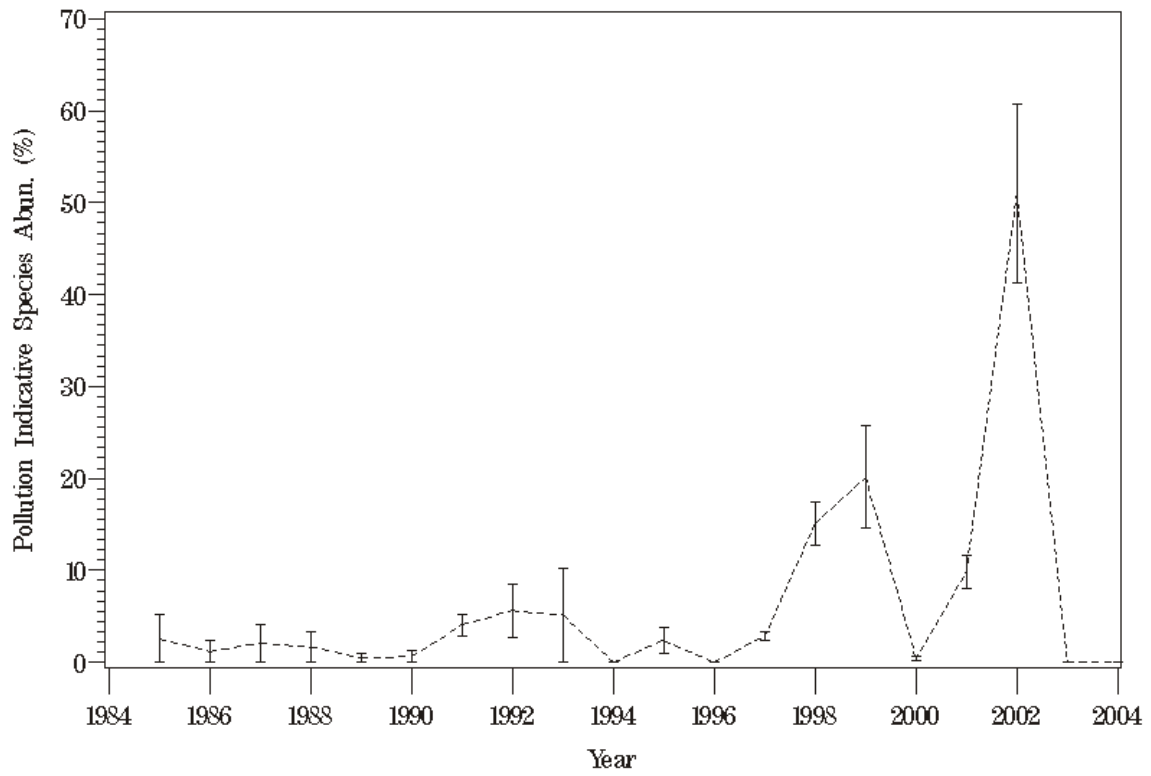


Figure L109. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2004.



# RET3.1 (2-R)

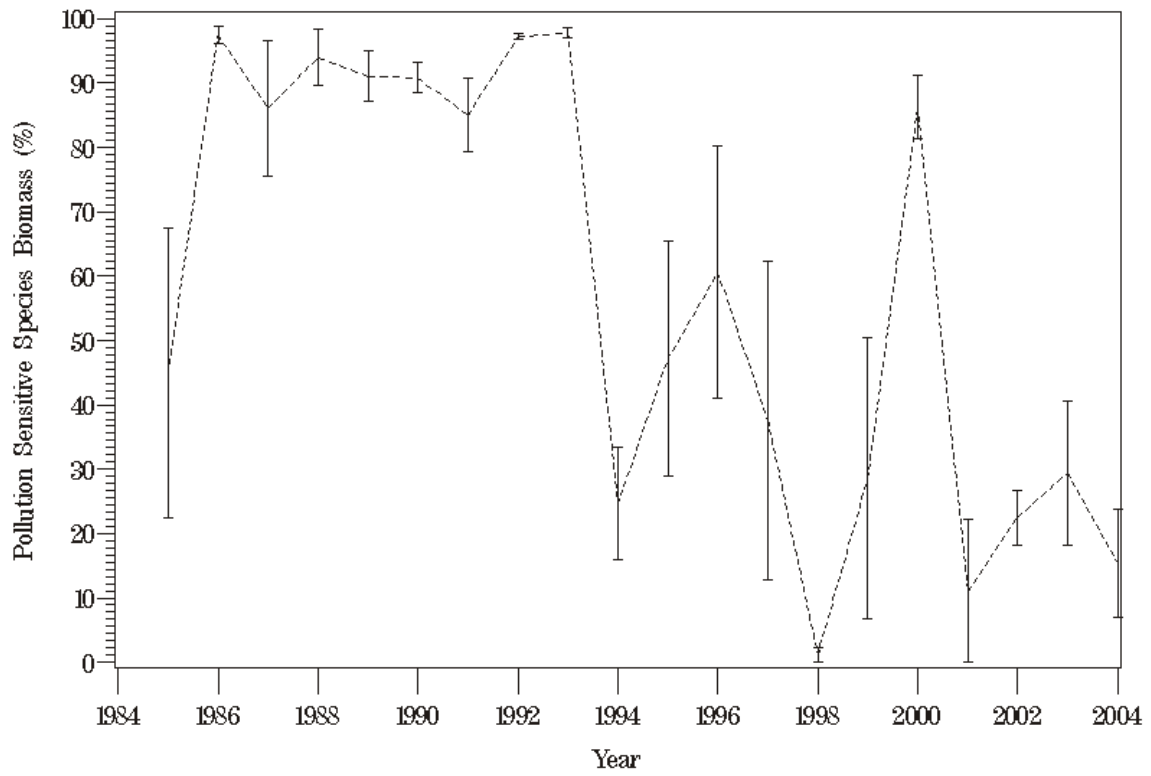


Figure L110. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

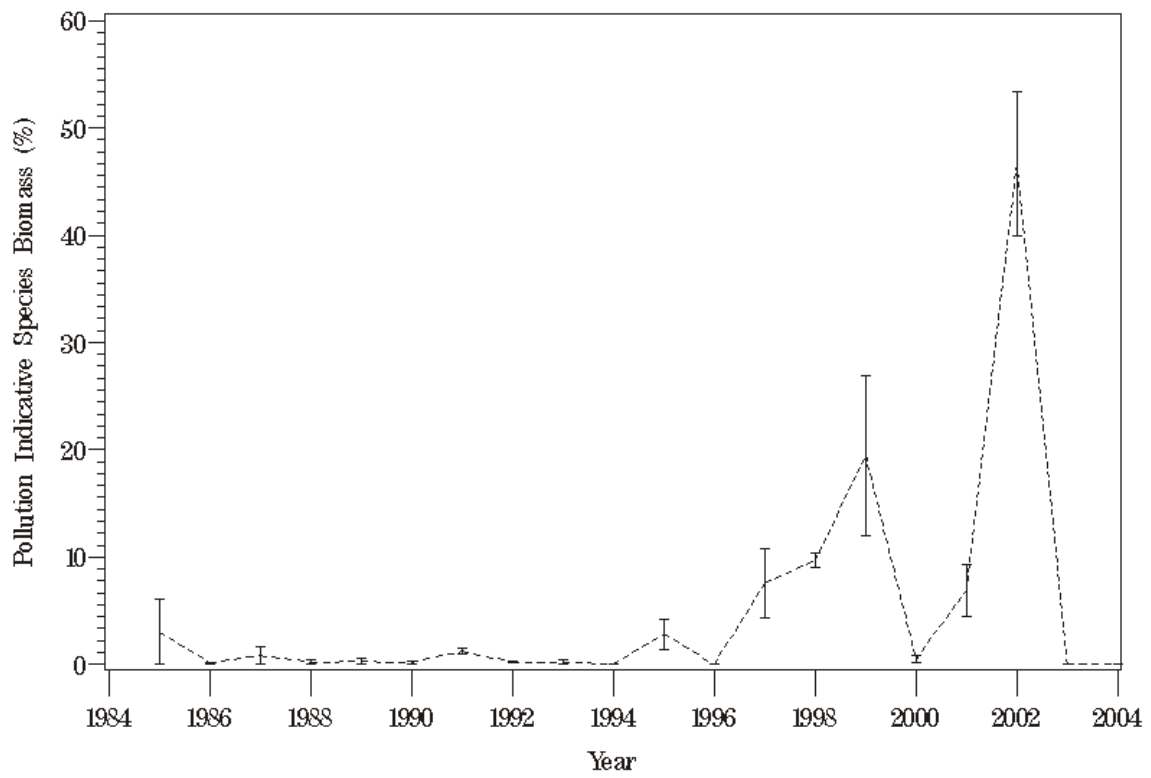


Figure L111. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2004.

## RET3.1 (2-R)

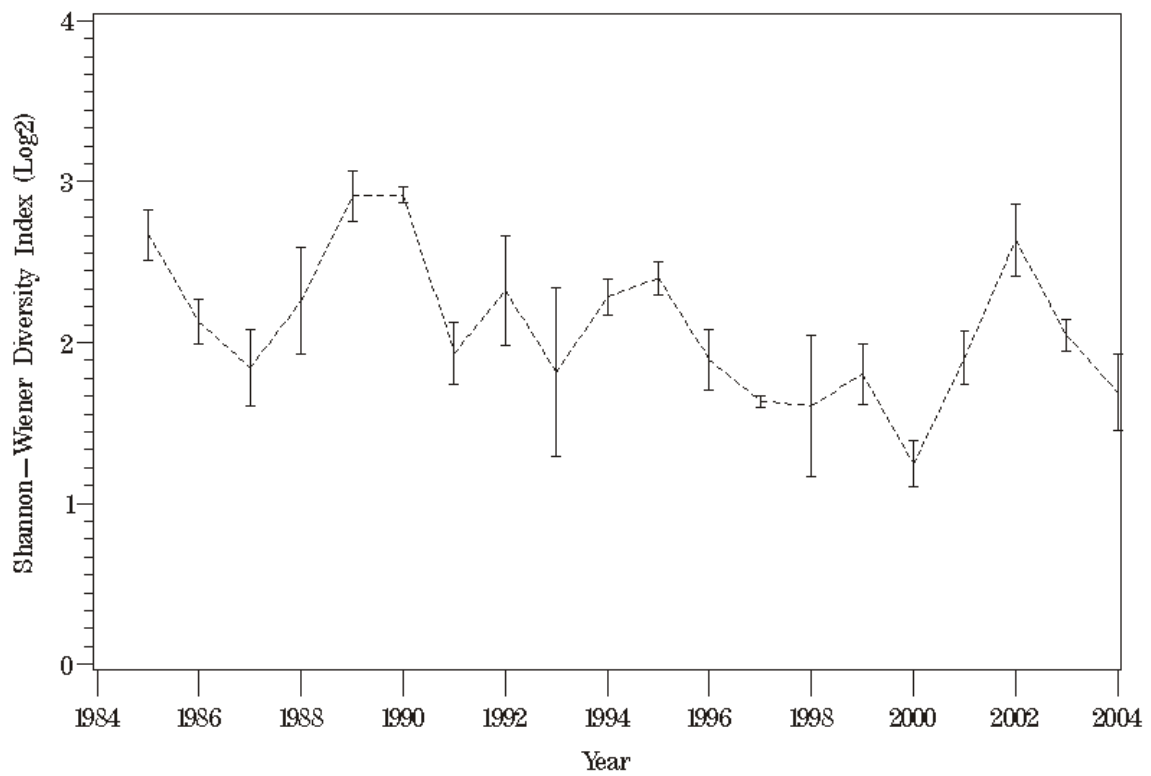


Figure L112. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2004.

## LE3.2 (3-R)

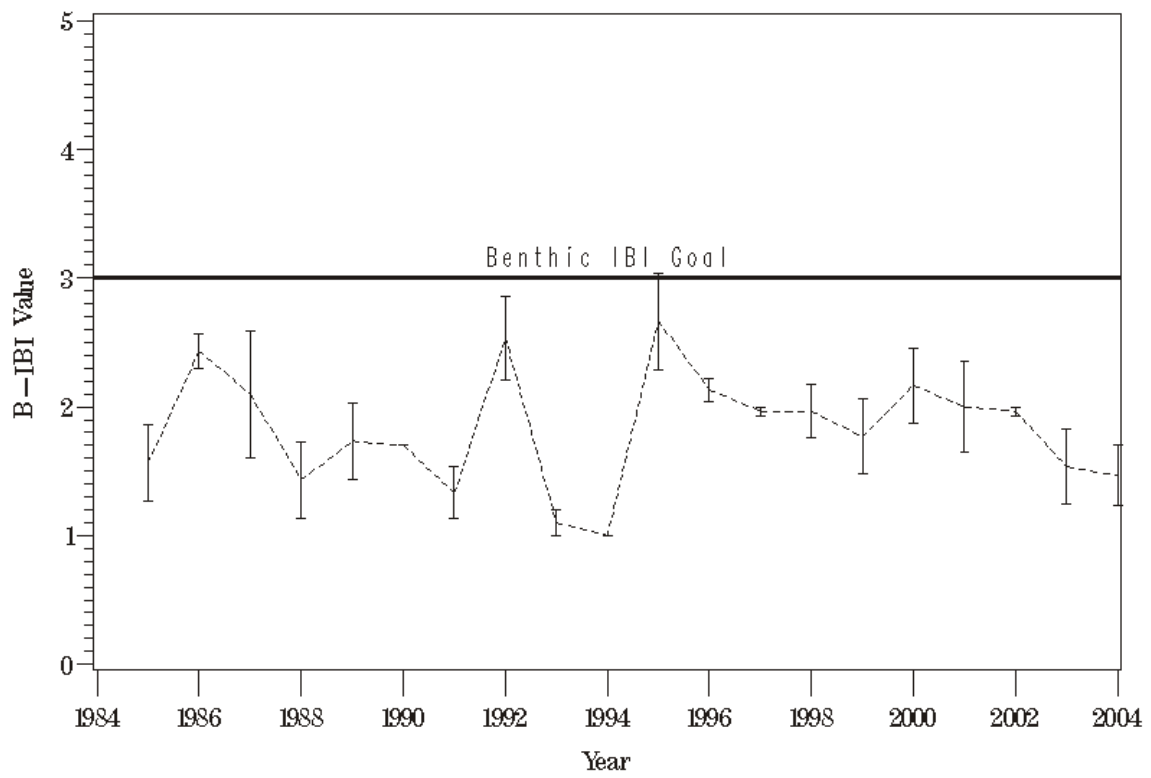


Figure L113. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2004.

# LE3.2 (3-R)

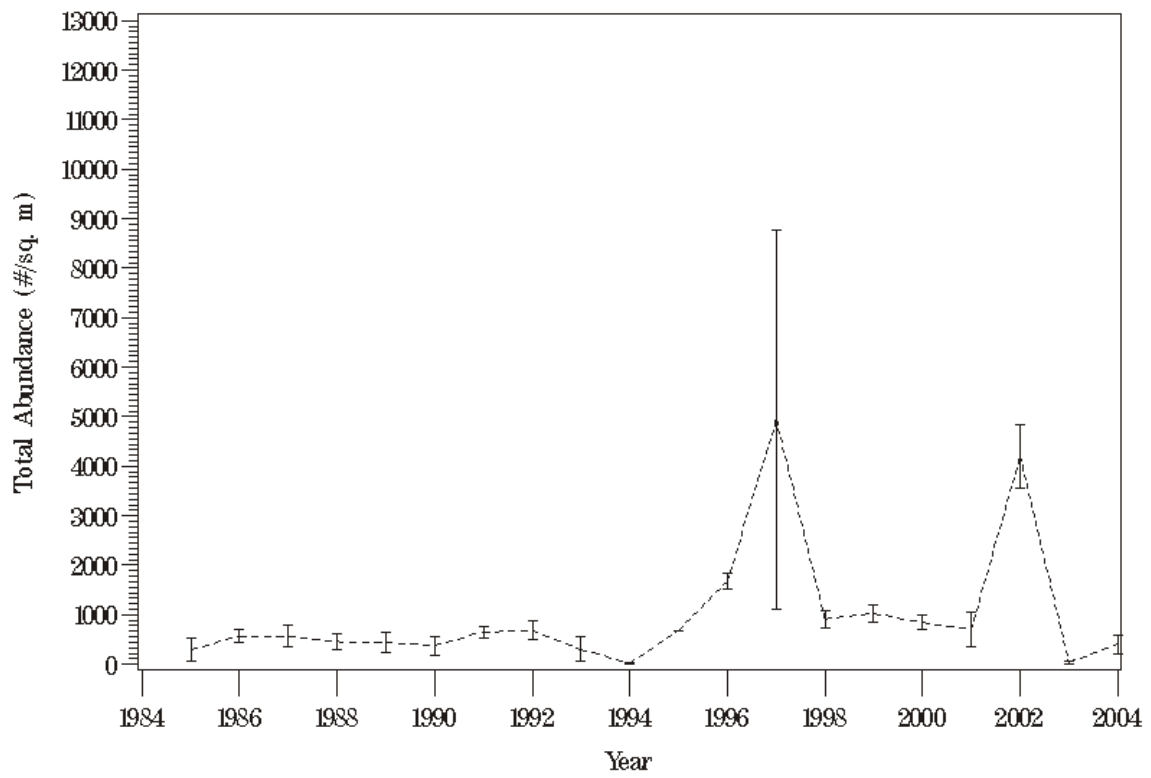


Figure L114. Plot of total benthic community abundance at station LE3.2 for 1985 through 2004.

## LE3.2 (3-R)

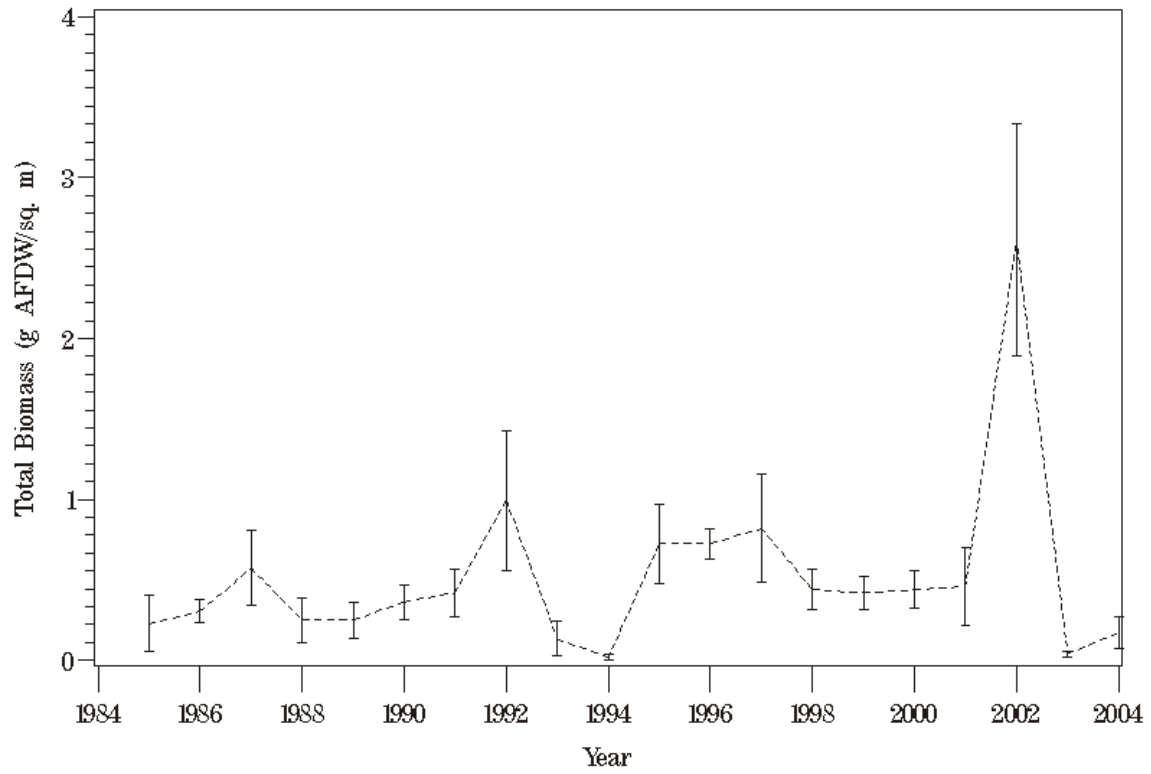


Figure L115. Plot of total benthic community biomass at station LE3.2 for 1985 through 2004.

### LE3.2 (3-R)

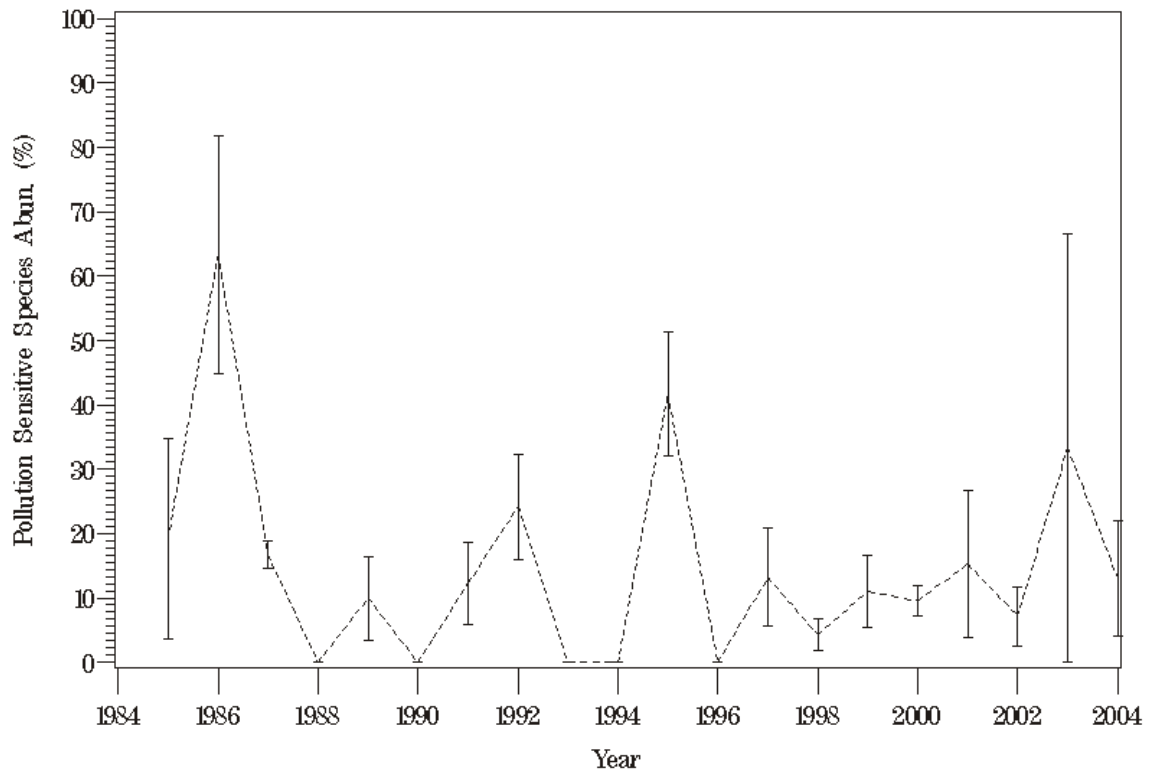


Figure L116. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2004.

### LE3.2 (3-R)

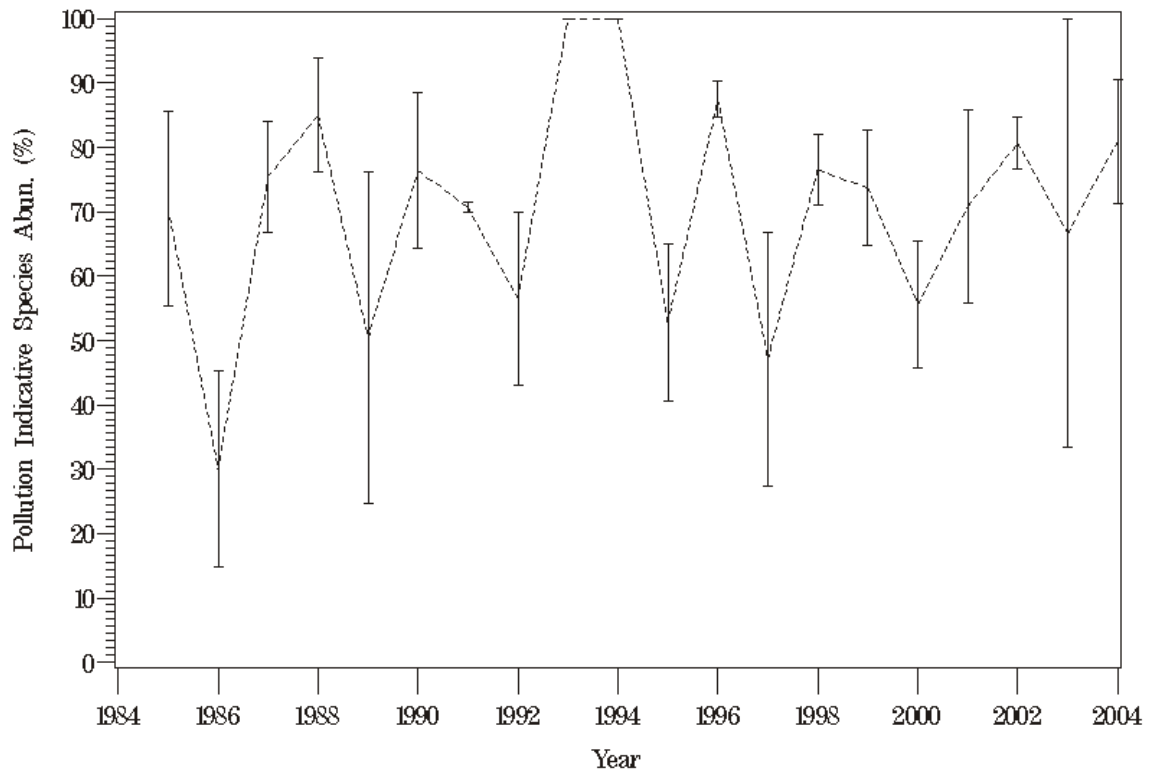


Figure L117. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2004.



### LE3.2 (3-R)

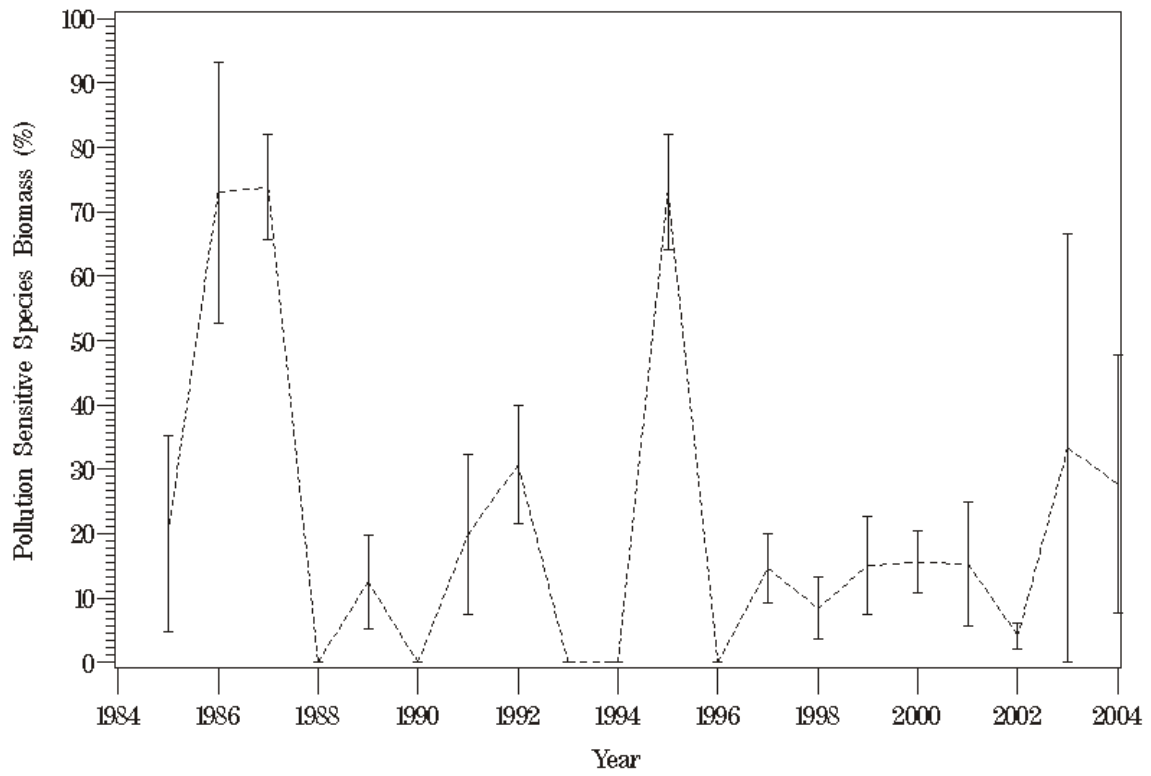


Figure L118. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2004.

### LE3.2 (3-R)

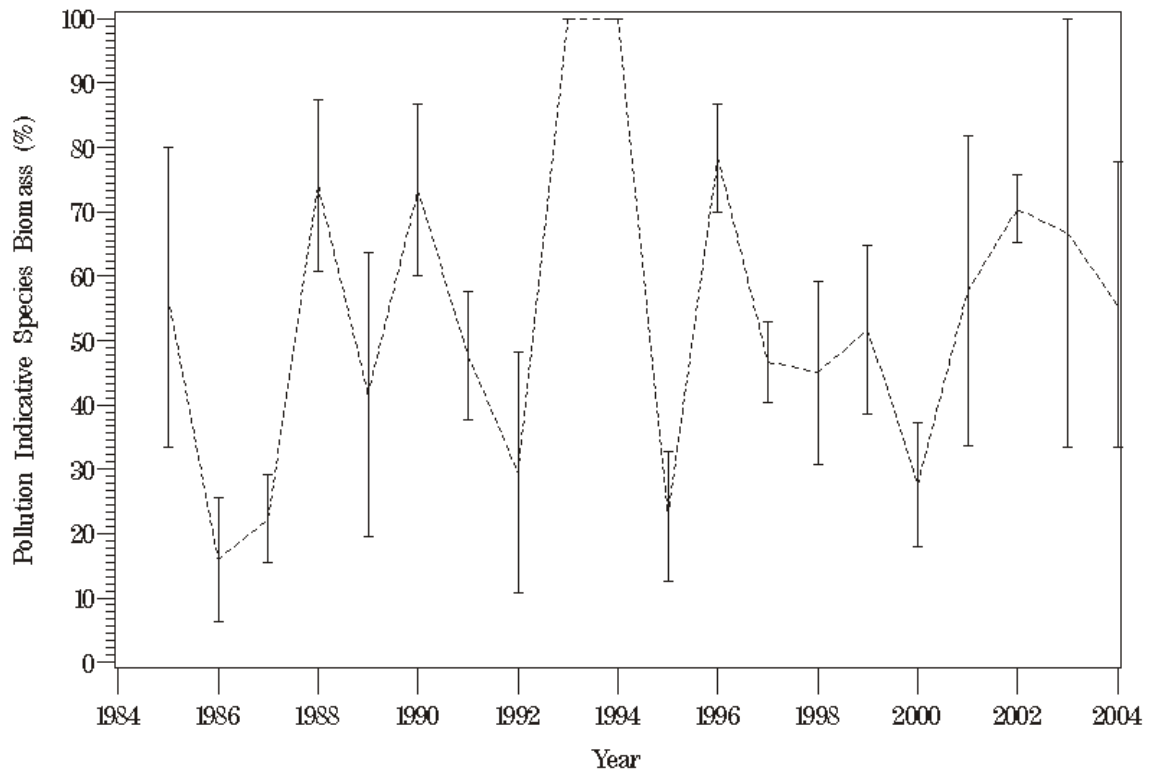


Figure L119. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2004.

### LE3.2 (3-R)

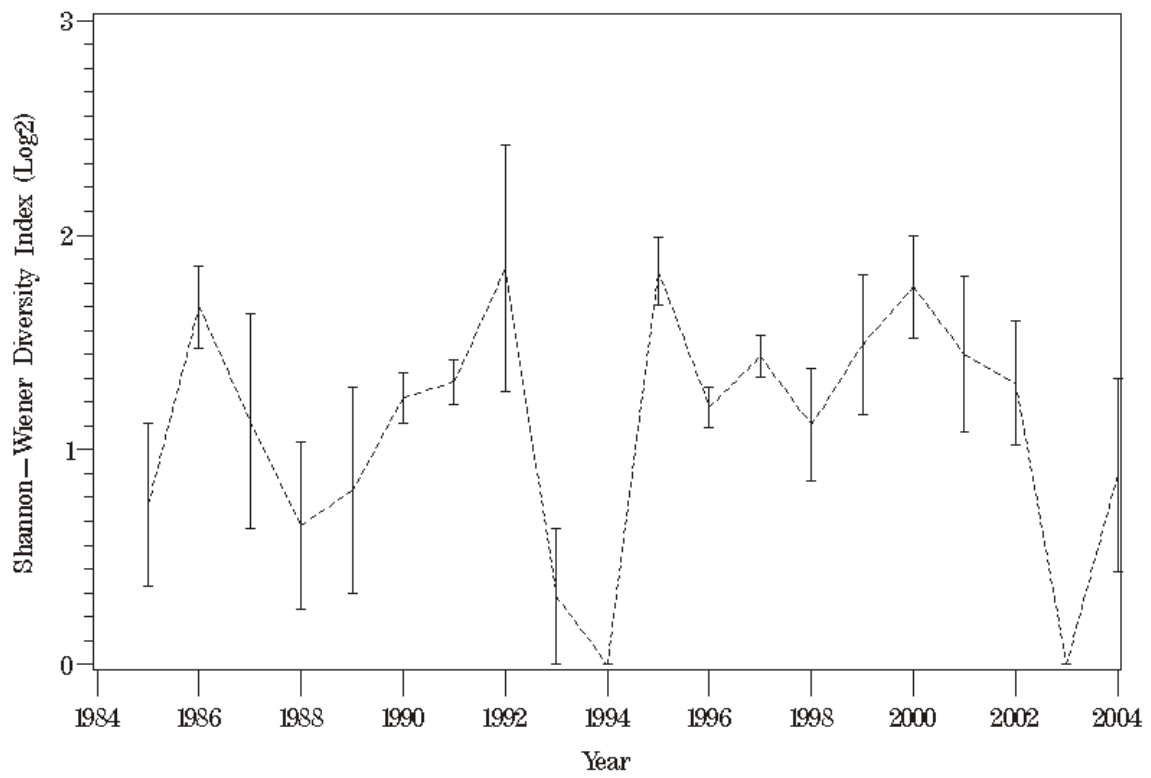


Figure L120. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2004.

### LE3.4 (4-R)

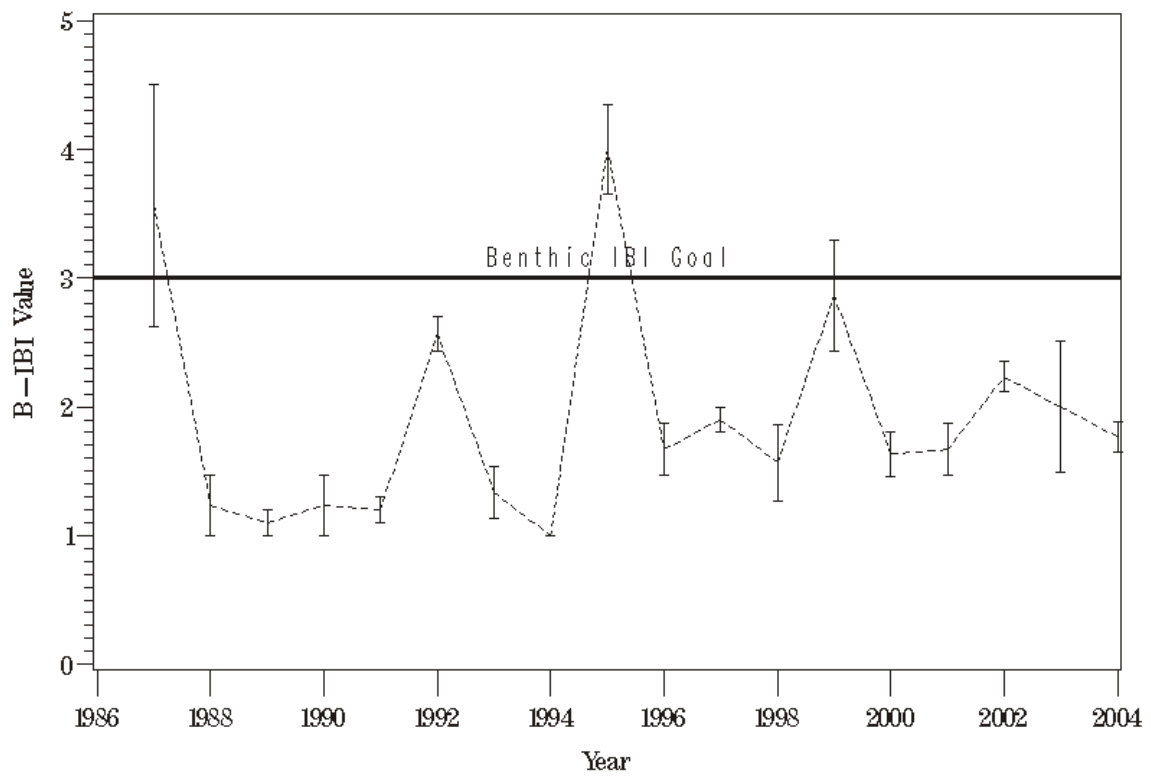


Figure L121. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2004.

# LE3.4 (4-R)

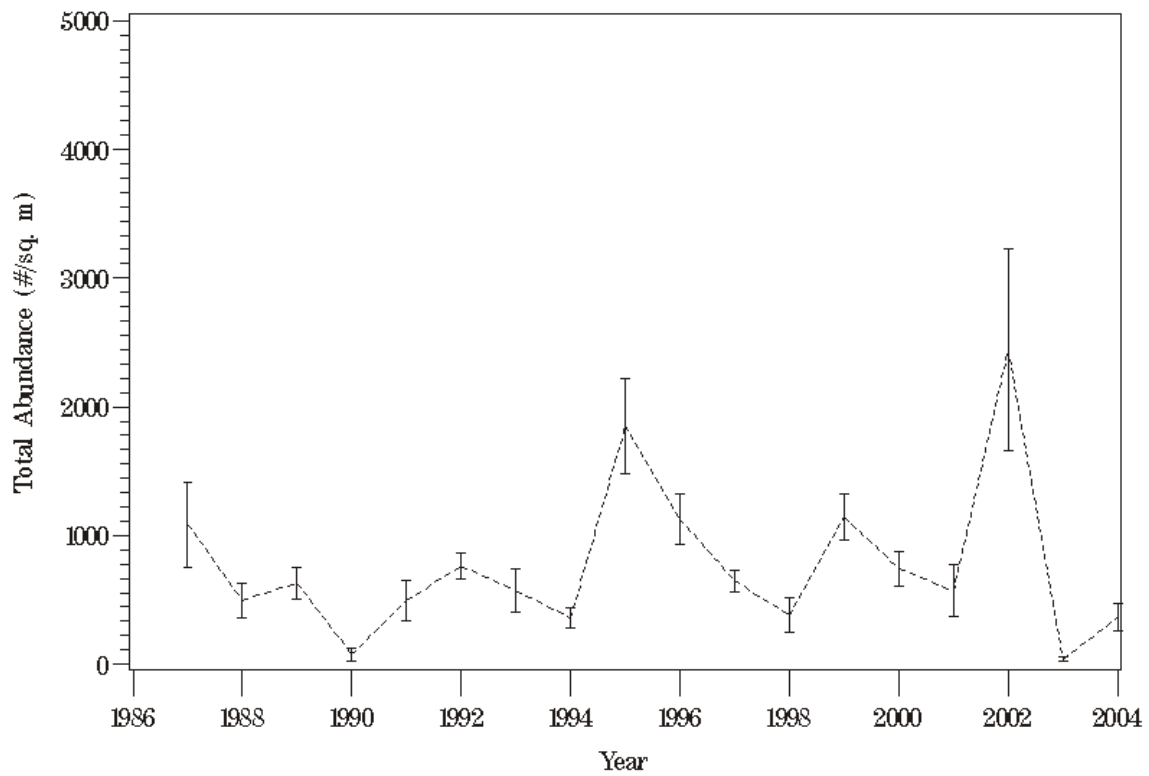


Figure L122. Plot of total benthic community abundance at station LE3.4 for 1985 through 2004.

### LE3.4 (4-R)

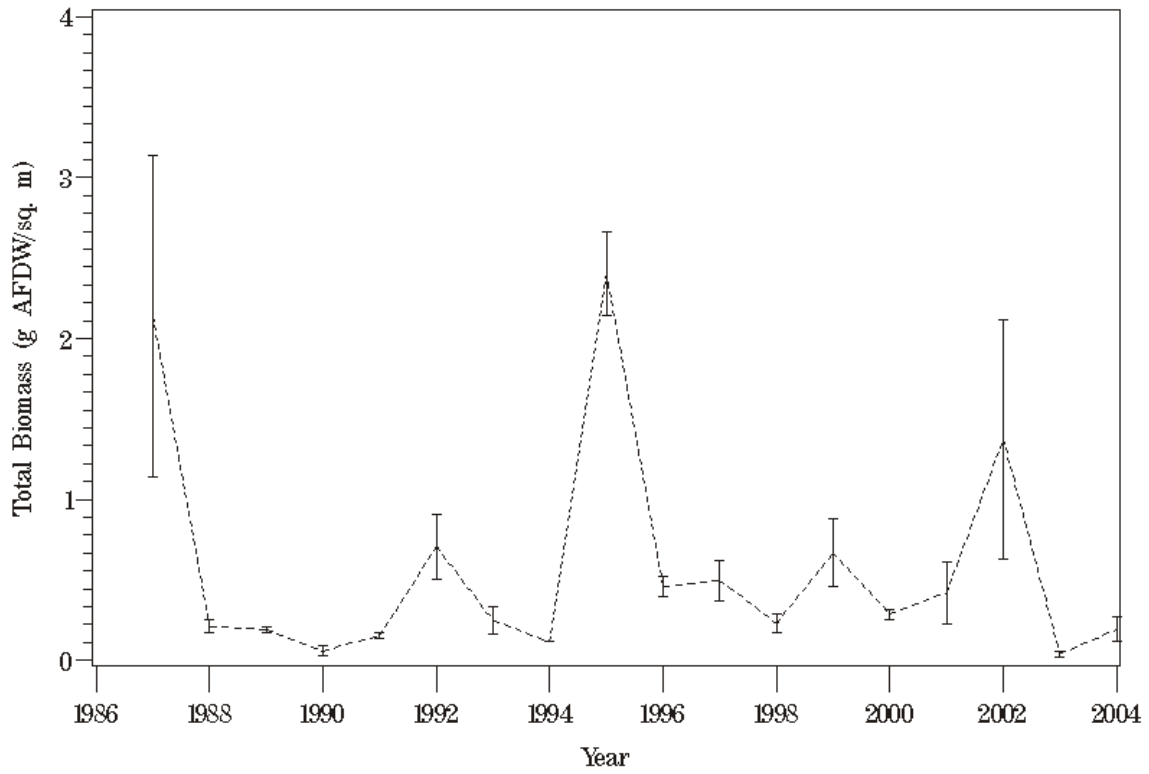


Figure L123. Plot of total benthic community biomass at station LE3.4 for 1985 through 2004.

## LE3.4 (4-R)

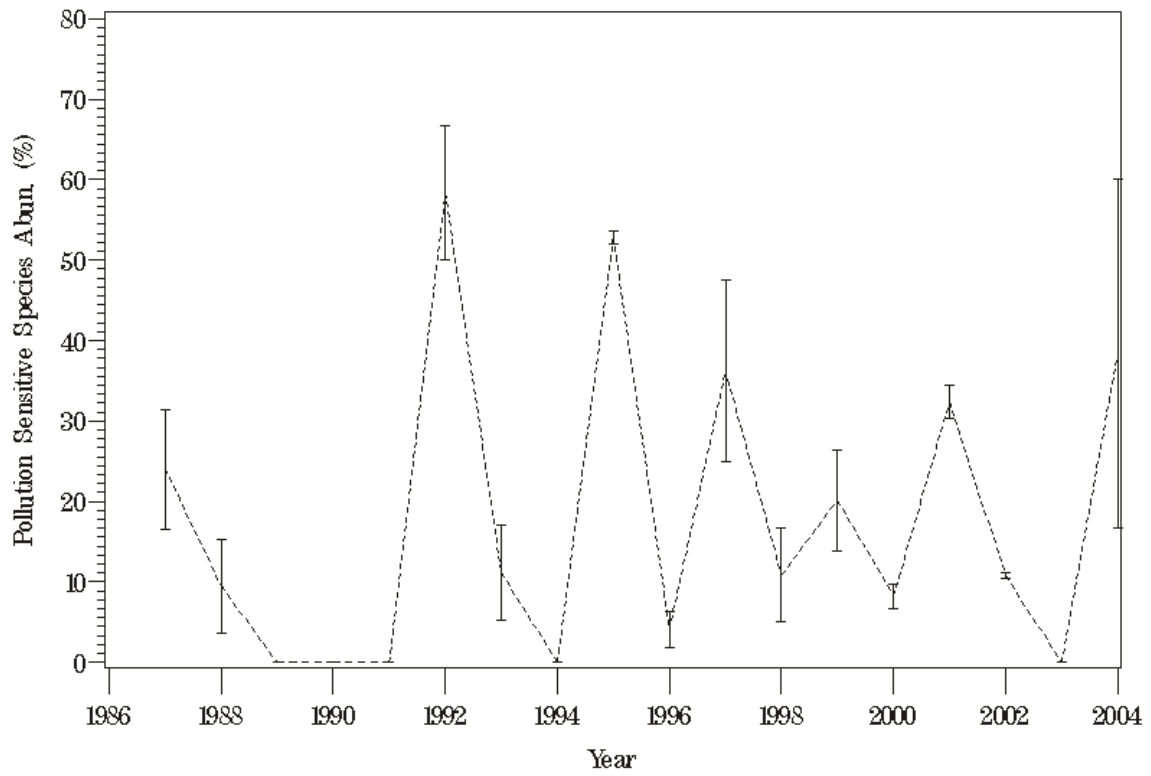


Figure L124. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2004.

### LE3.4 (4-R)

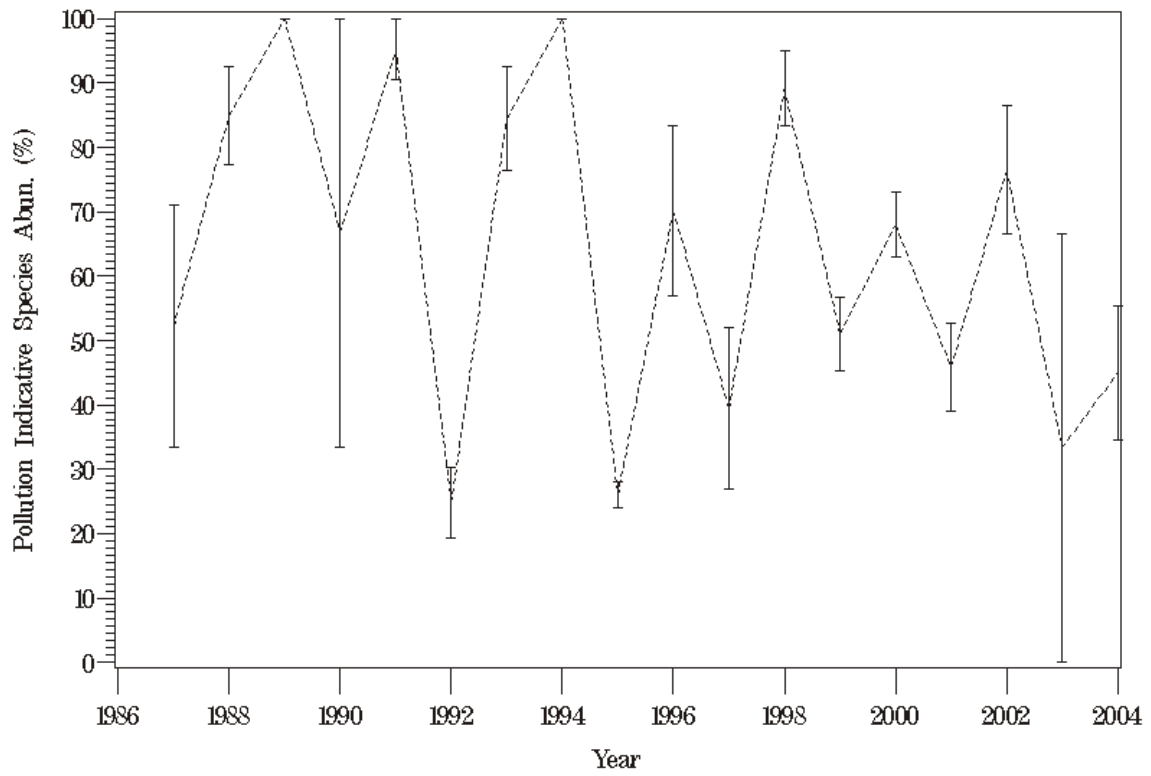


Figure L125. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2004.



# LE3.4 (4-R)

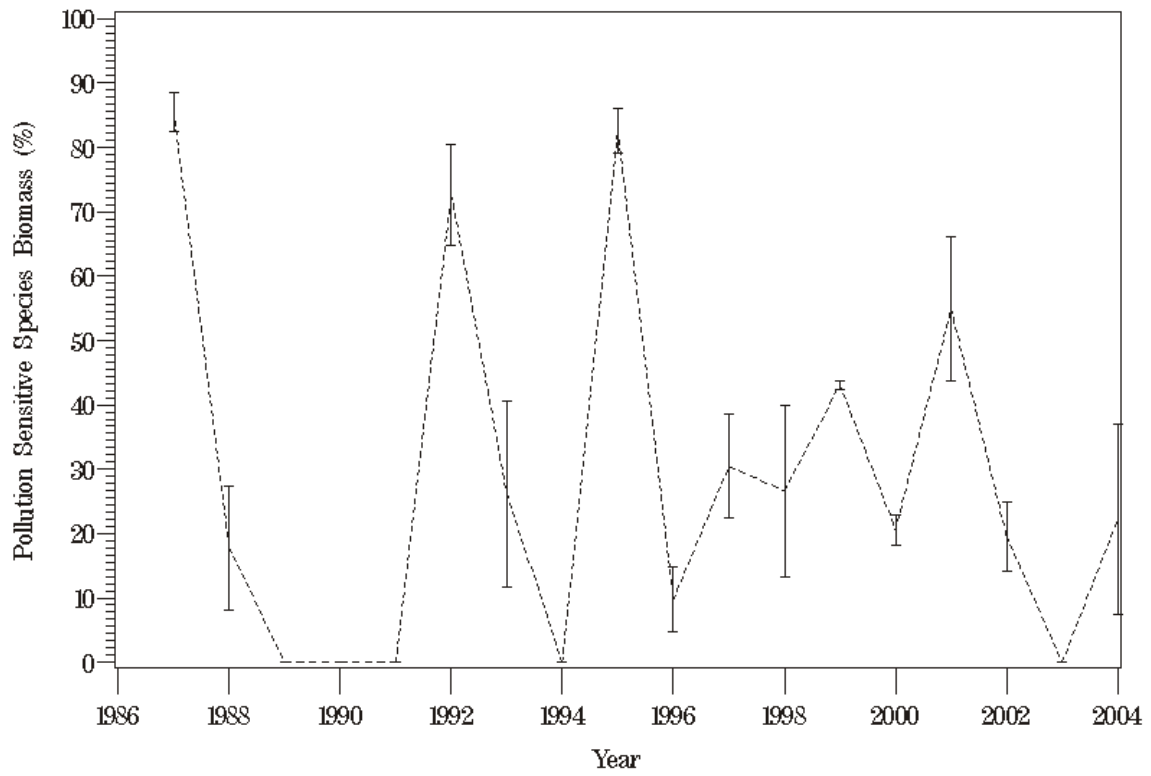


Figure L126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2004.

### LE3.4 (4-R)

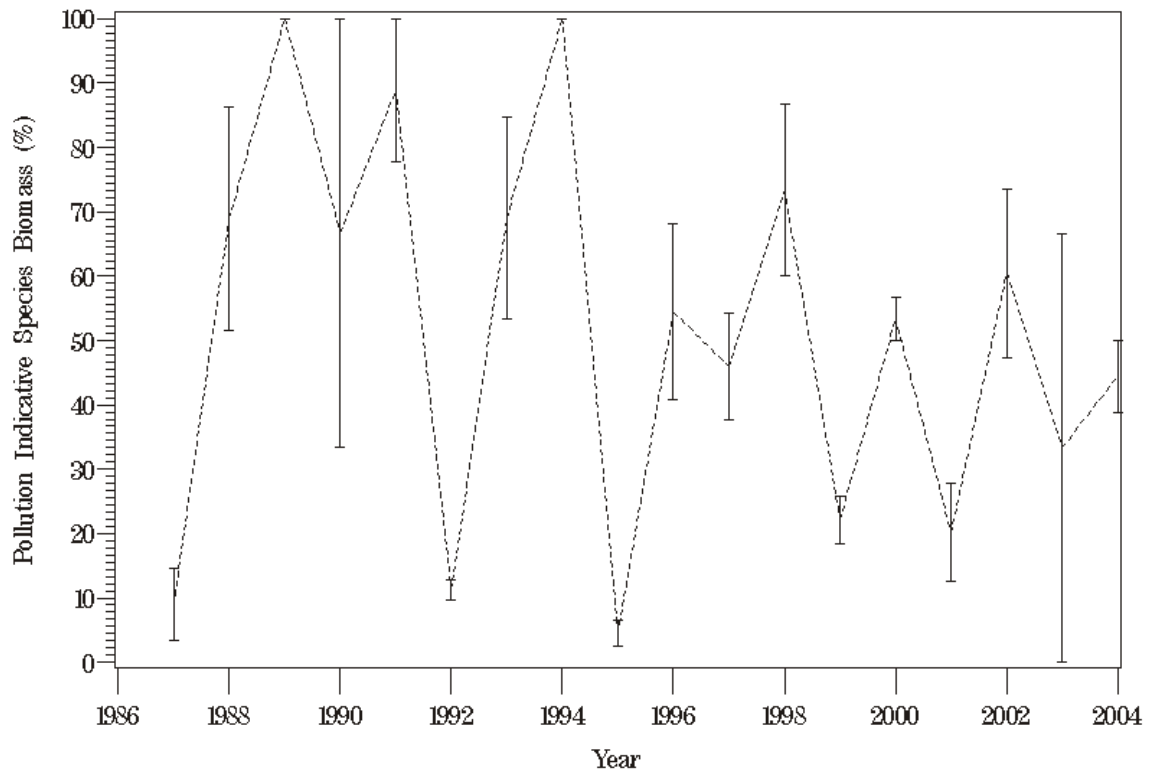


Figure L127. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2004.

### LE3.4 (4-R)

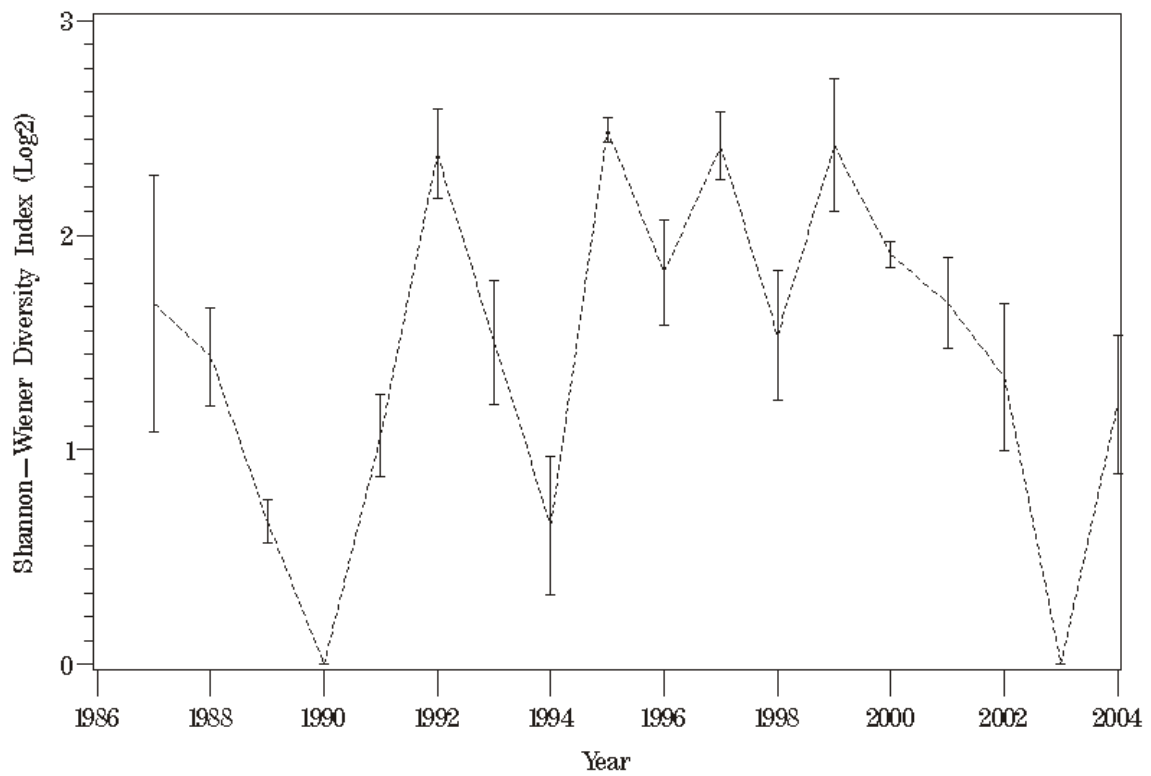


Figure L128. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2004.