

## **Appendix L. Scatterplots of the B-IBI and its component metrics**

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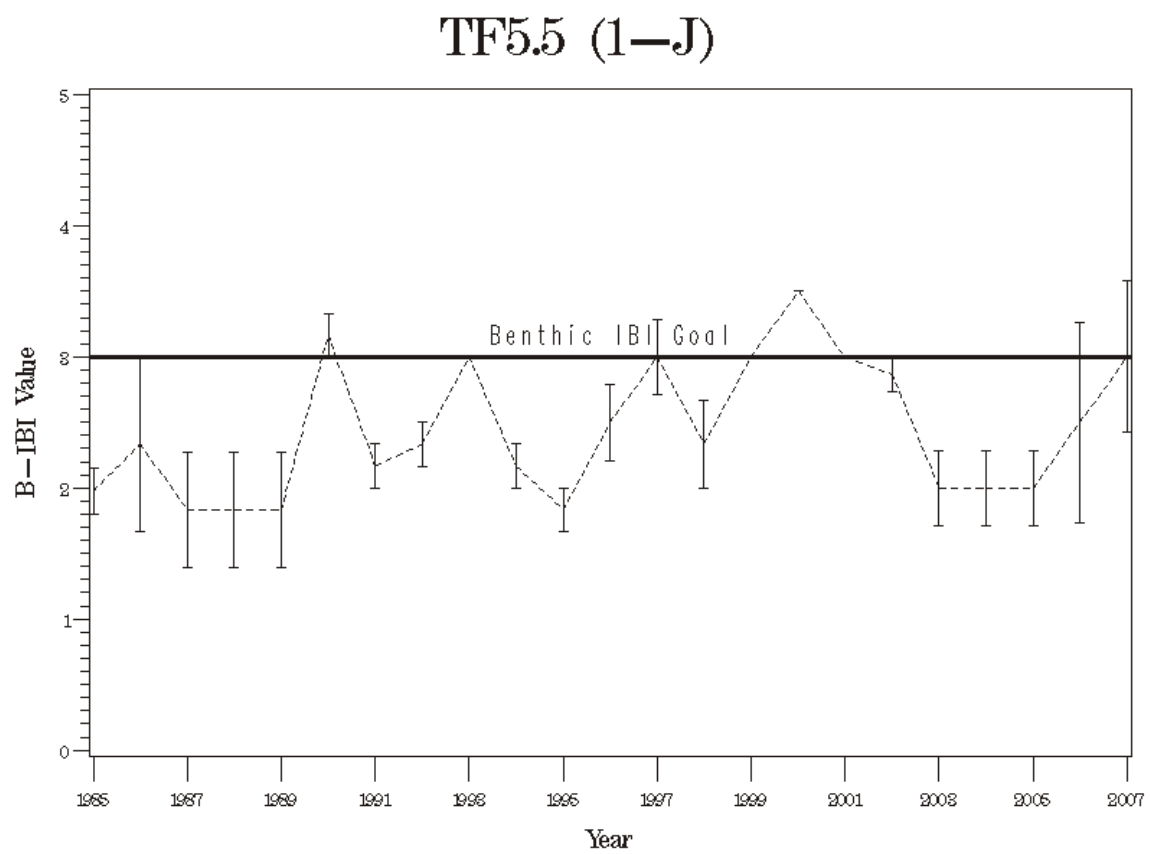


Figure L1. Plot of the benthic IBI against time at station TF5.5 for 1985 through 2007.

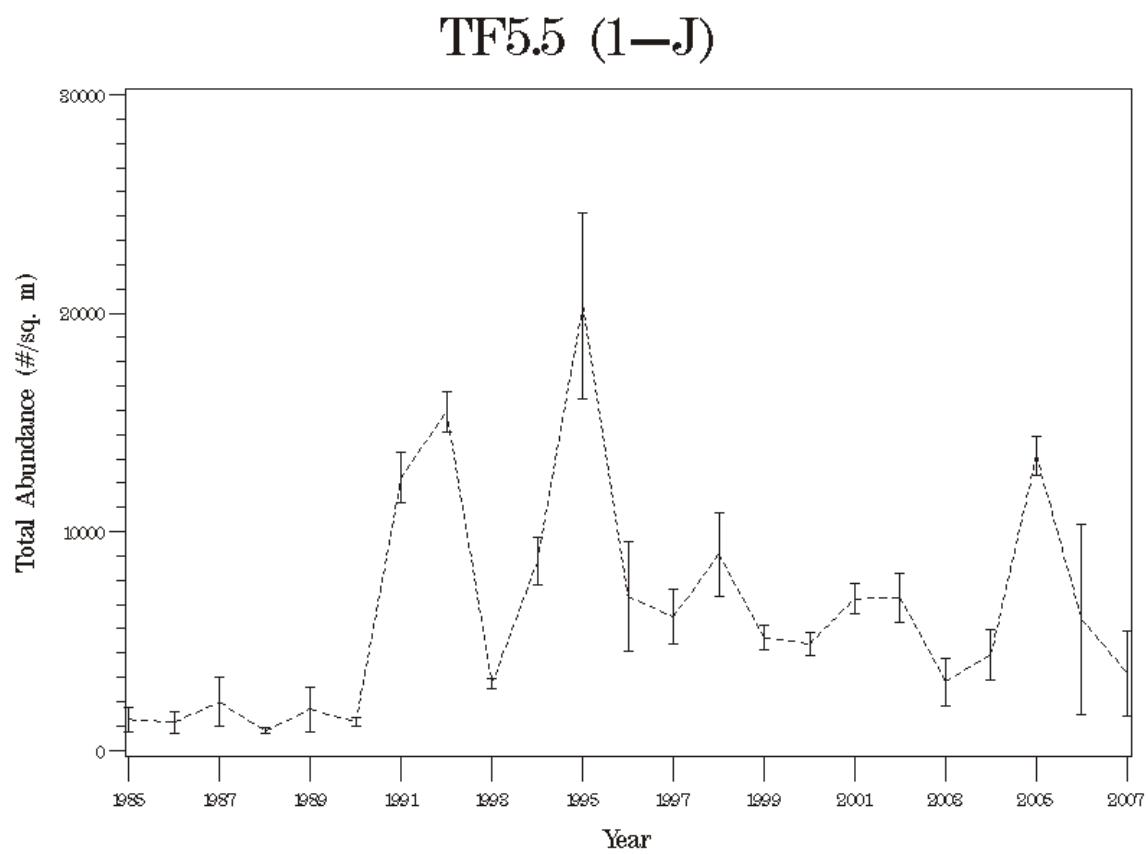


Figure L2. Plot of total benthic community abundance at station TF5.5 for 1985 through 2007.



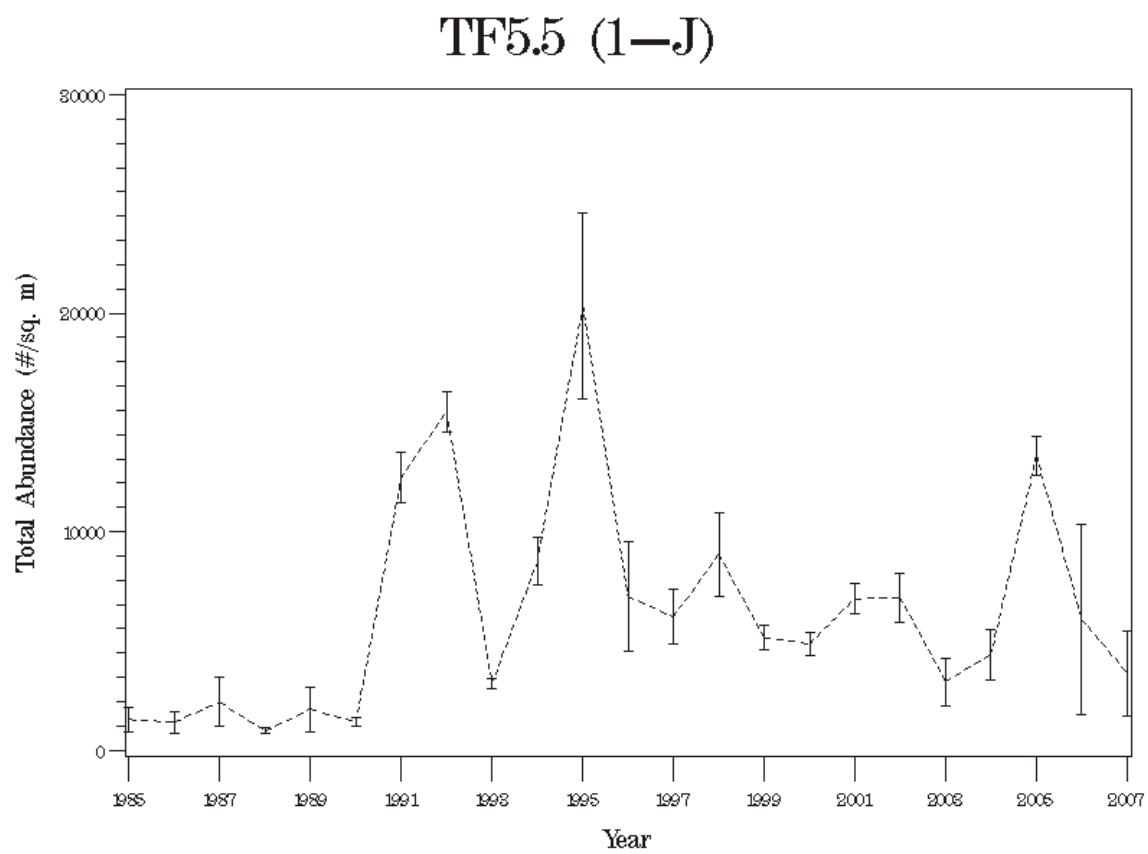


Figure L3. Plot of total benthic community biomass at station TF5.5 for 1985 through 2007.

## TF5.5 (1-J)

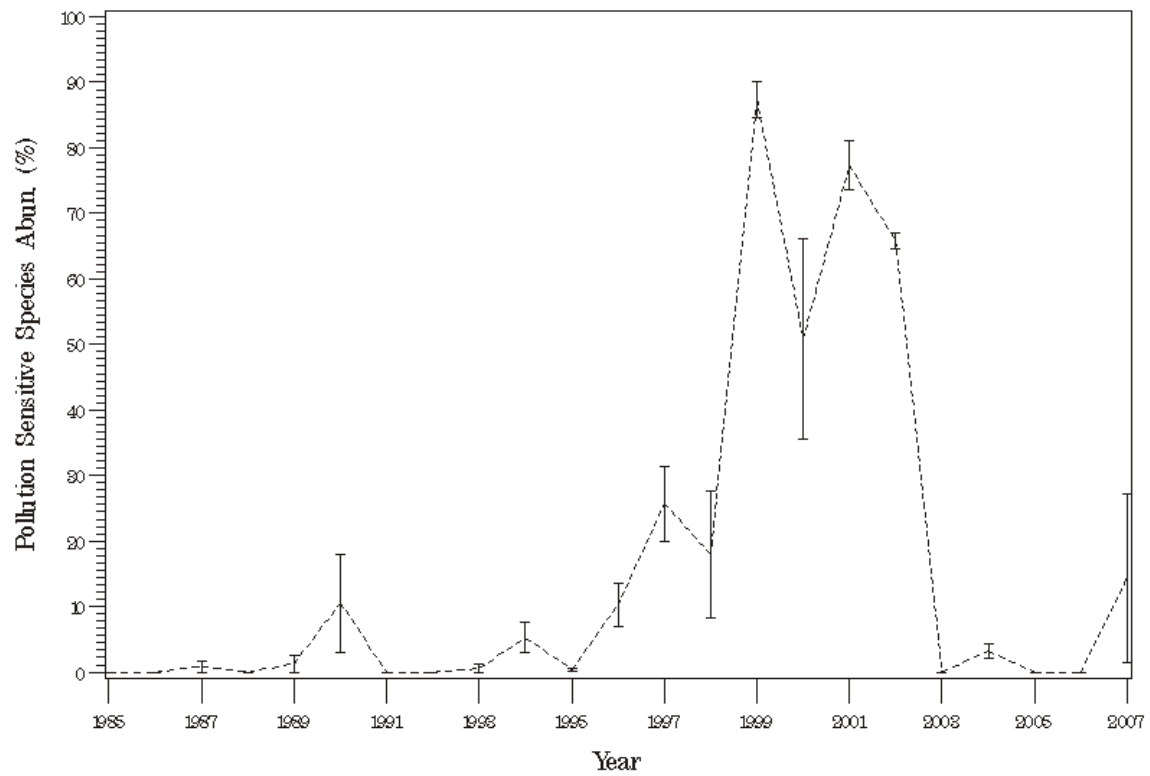


Figure L4. Plot of pollution sensitive species abundance at station TF5.5 for 1985 through 2007.

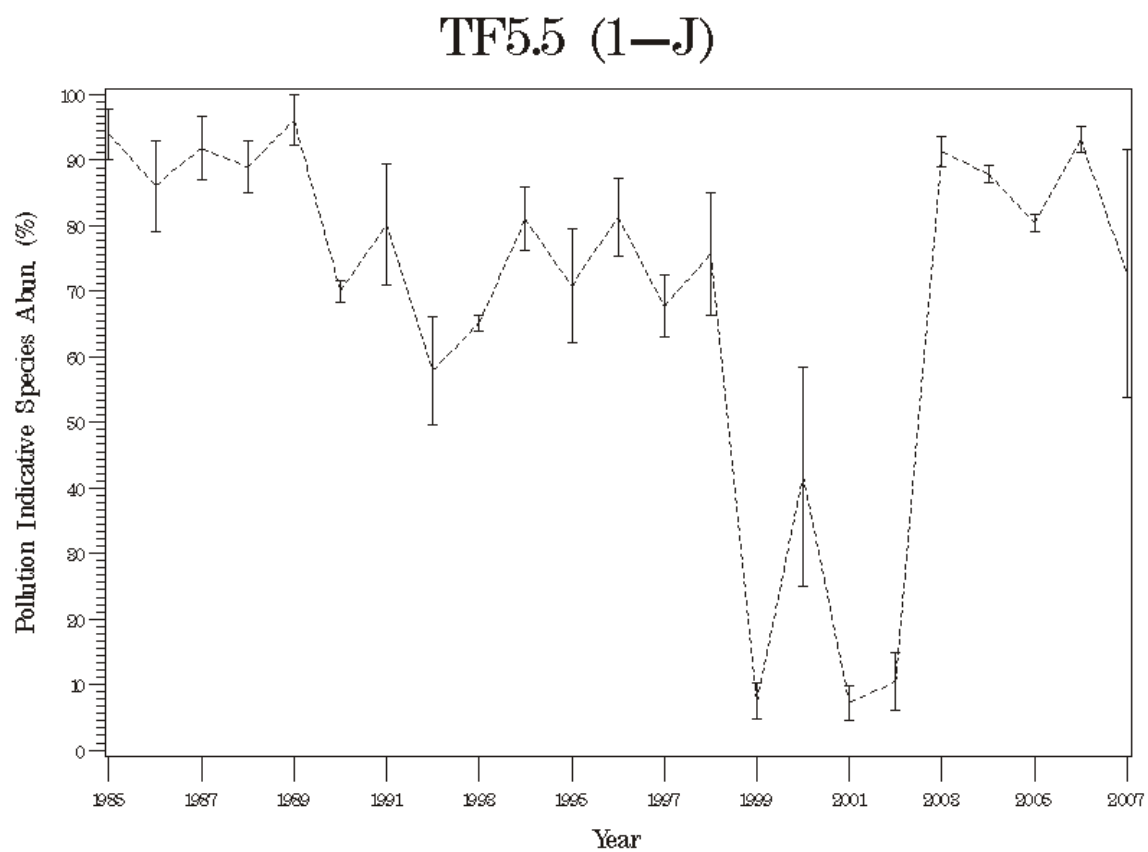


Figure L5. Plot of pollution indicative species abundance at station TF5.5 for 1985 through 2007.

## TF5.5 (1-J)

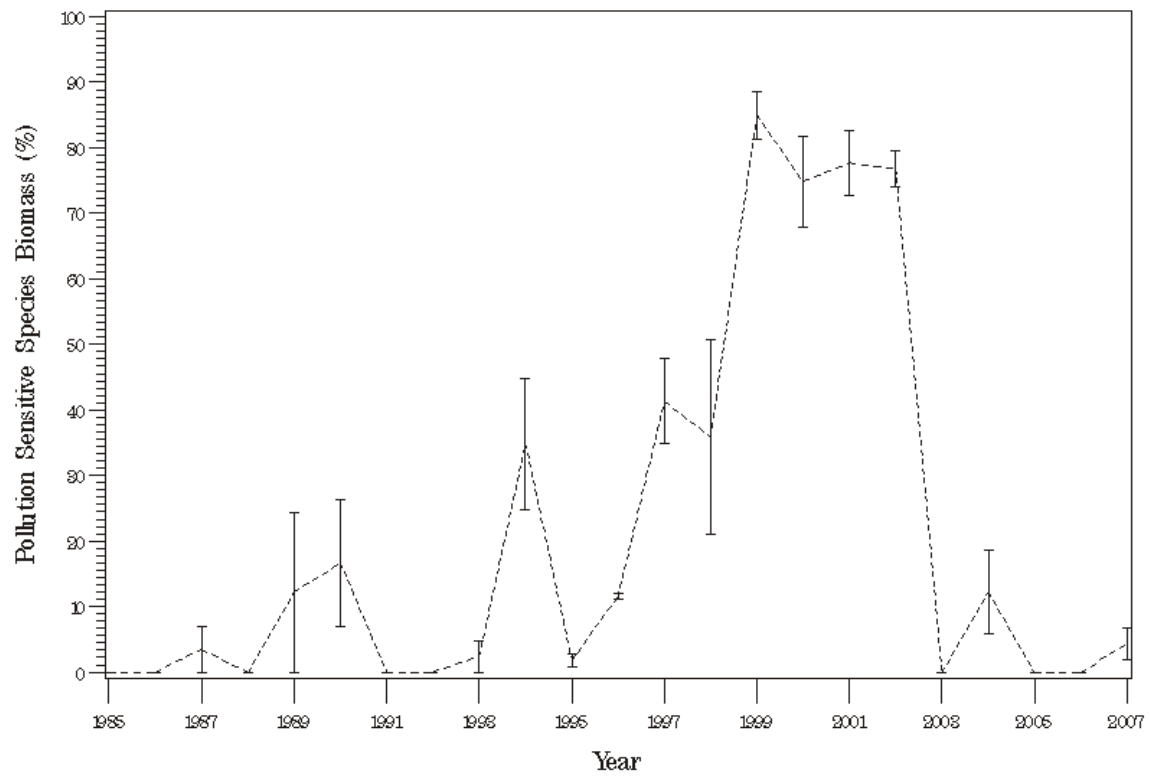


Figure L6. Plot of pollution sensitive species biomass at station TF5.5 for 1985 through 2007.

## TF5.5 (1-J)

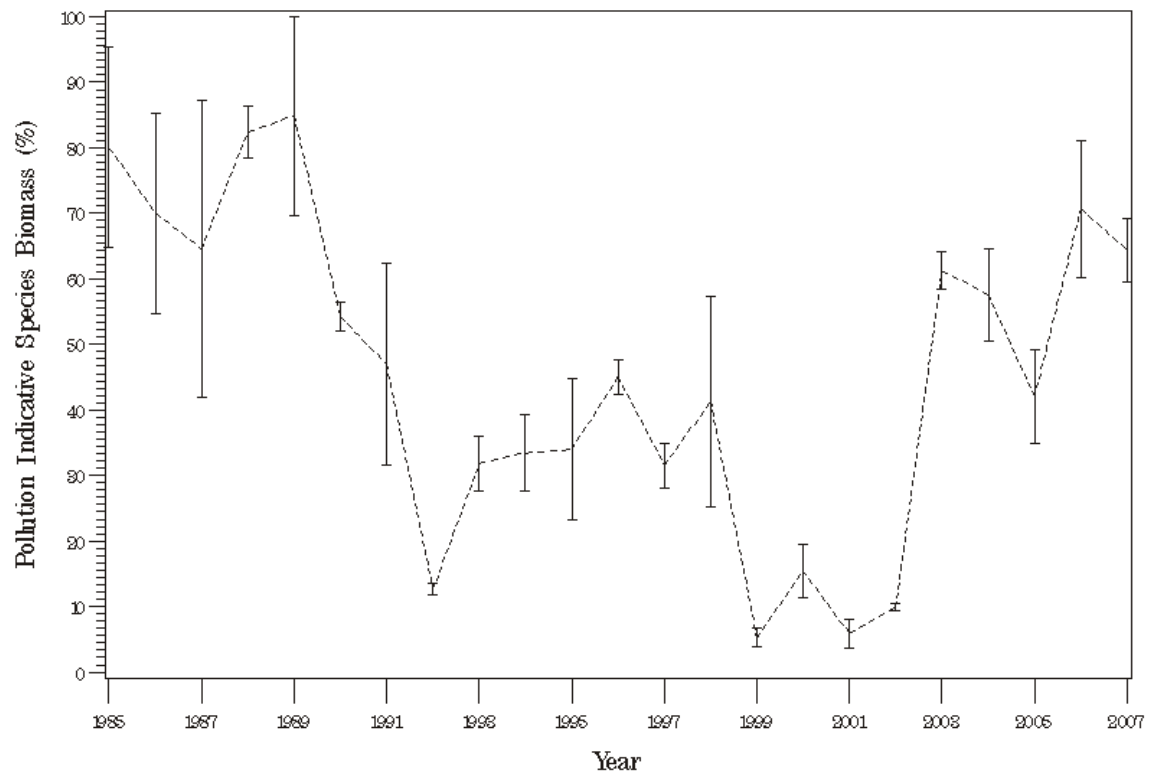


Figure L7. Plot of pollution indicative species biomass at station TF5.5 for 1985 through 2007.

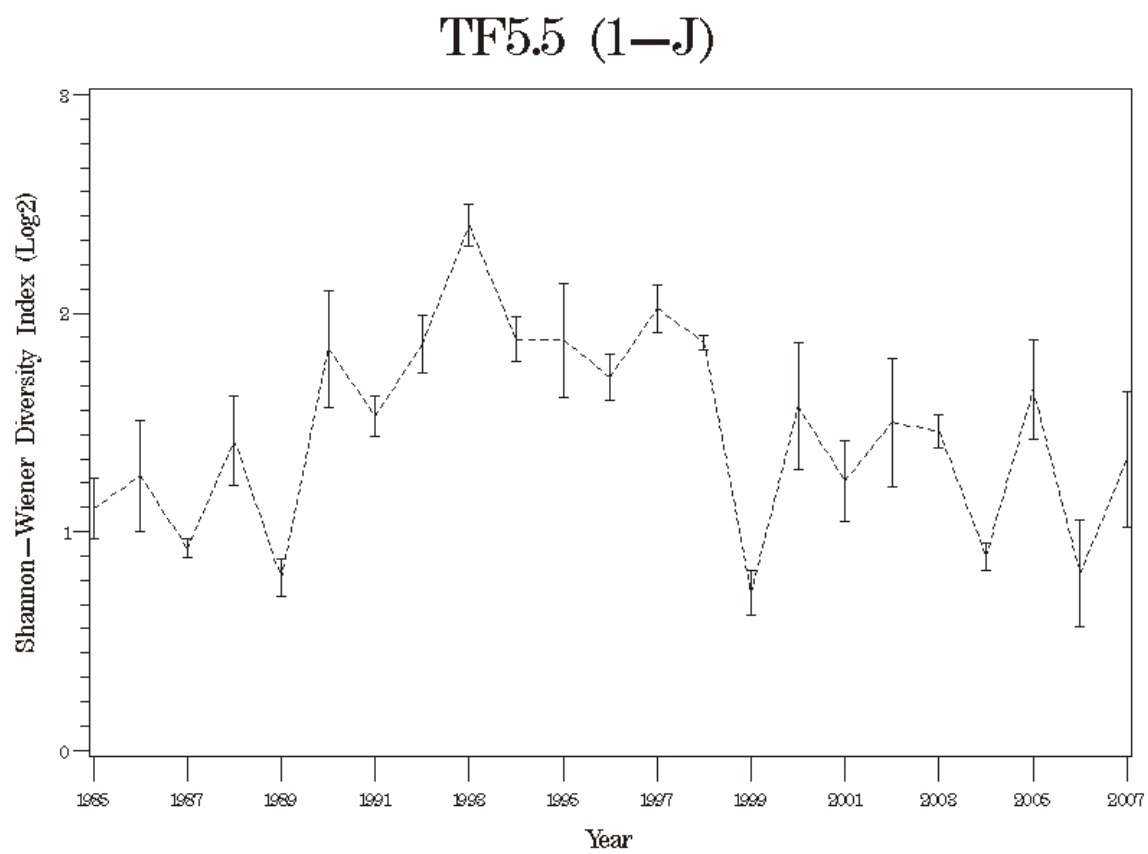


Figure L8. Plot of Shannon-Weiner diversity index at station TF5.5 for 1985 through 2007.

## RET5.2 (2-J)

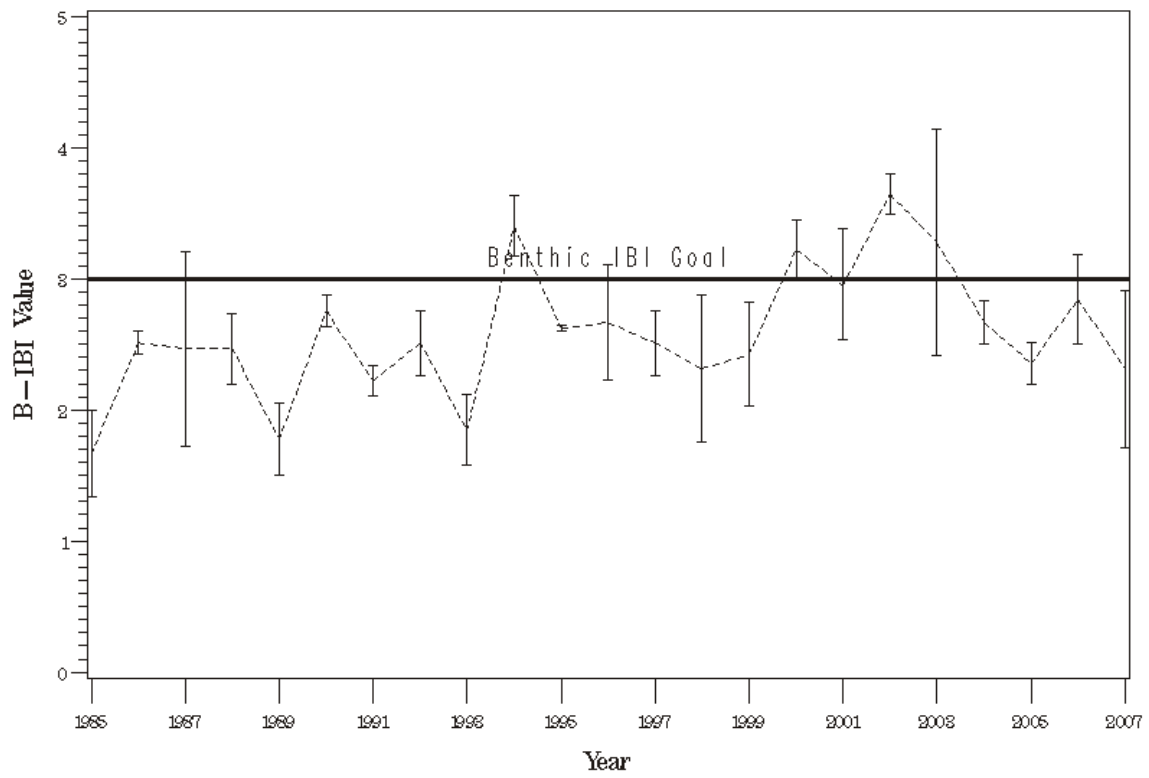


Figure L9. Plot of the benthic IBI against time at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

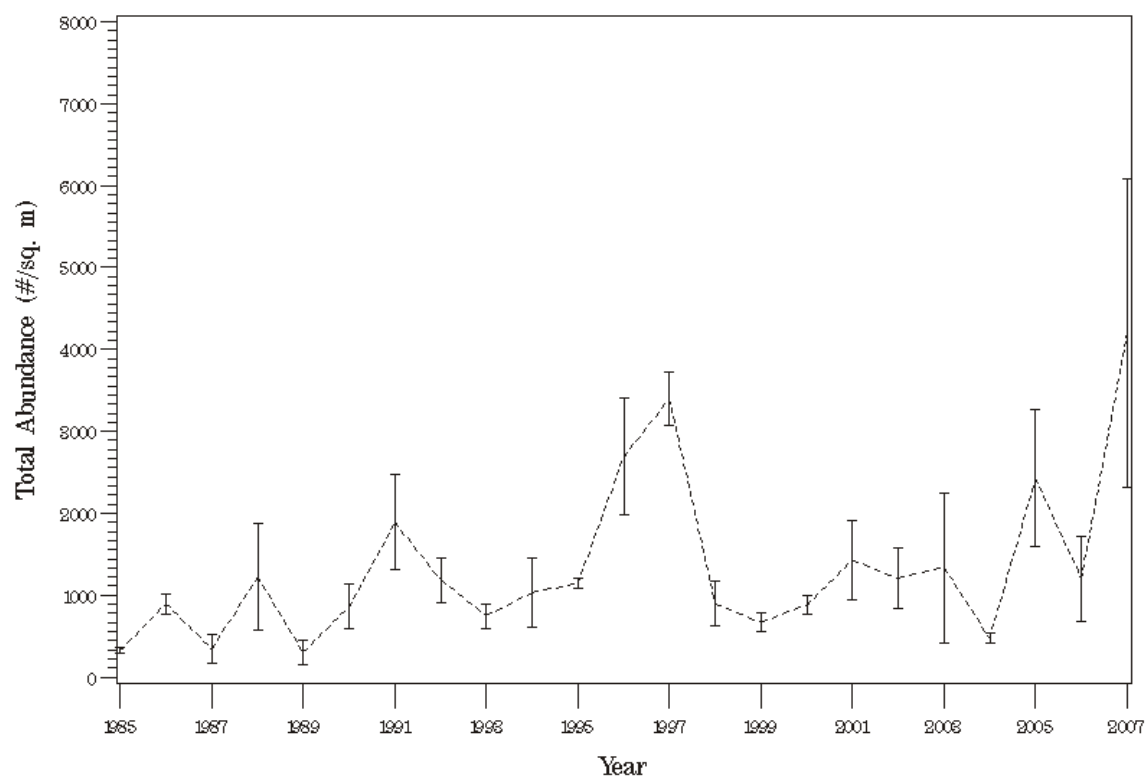


Figure L10. Plot of total benthic community abundance at station RET5.2 for 1985 through 2007.



## RET5.2 (2-J)

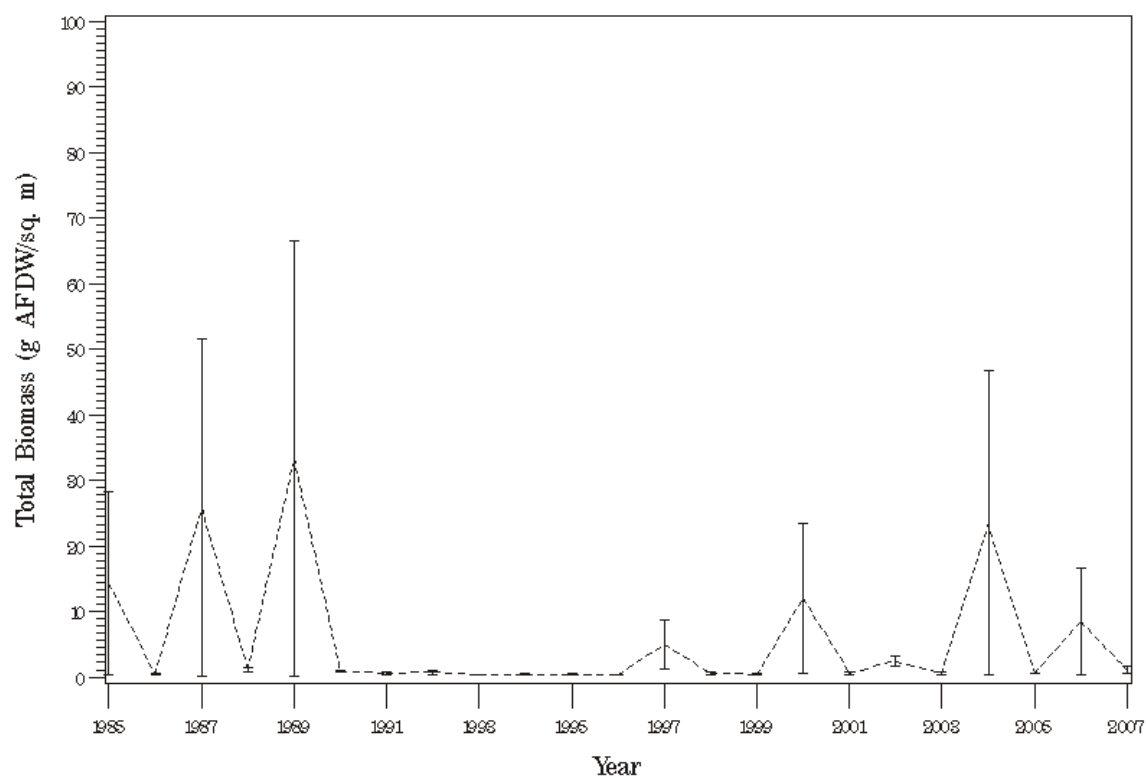


Figure L11. Plot of total benthic community biomass at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

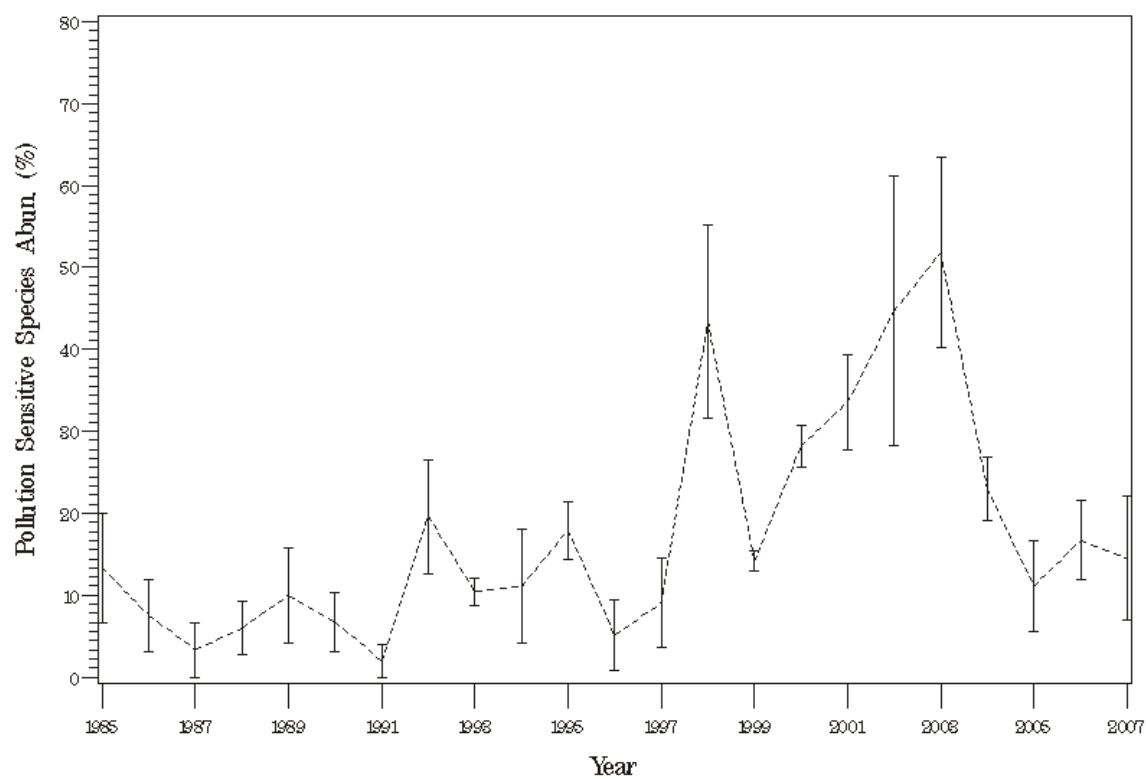


Figure L12. Plot of pollution sensitive species abundance at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

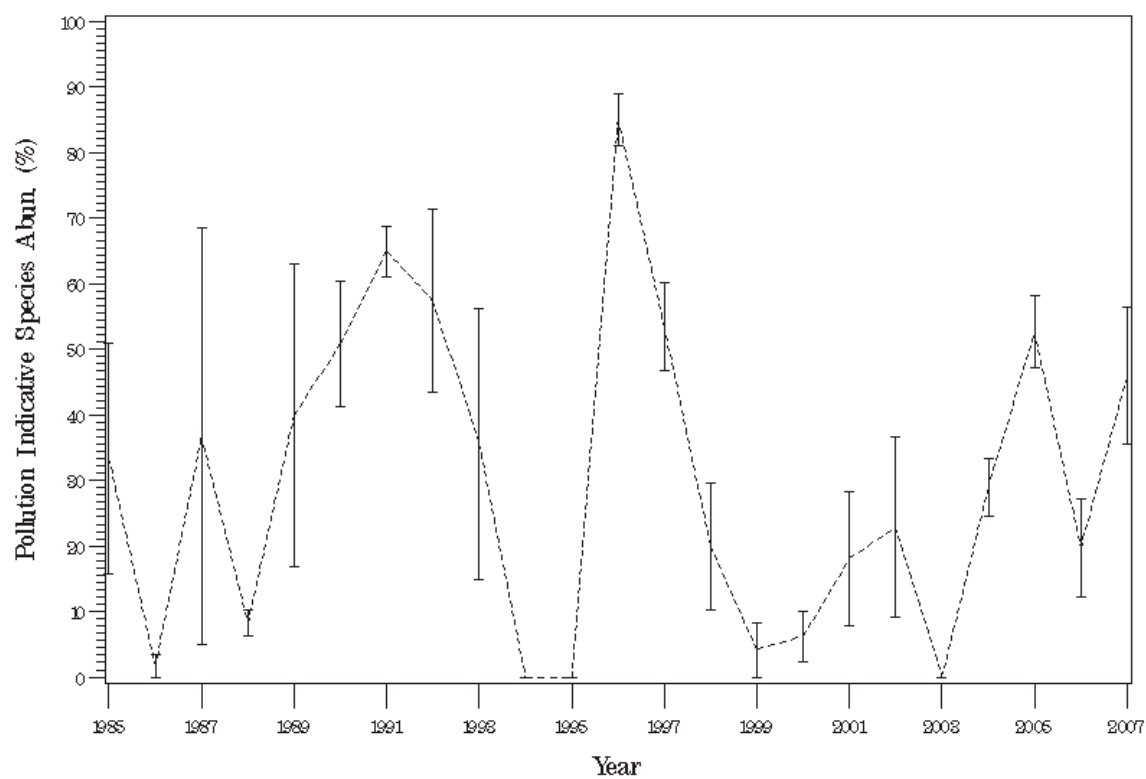


Figure L13. Plot of pollution indicative species abundance at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

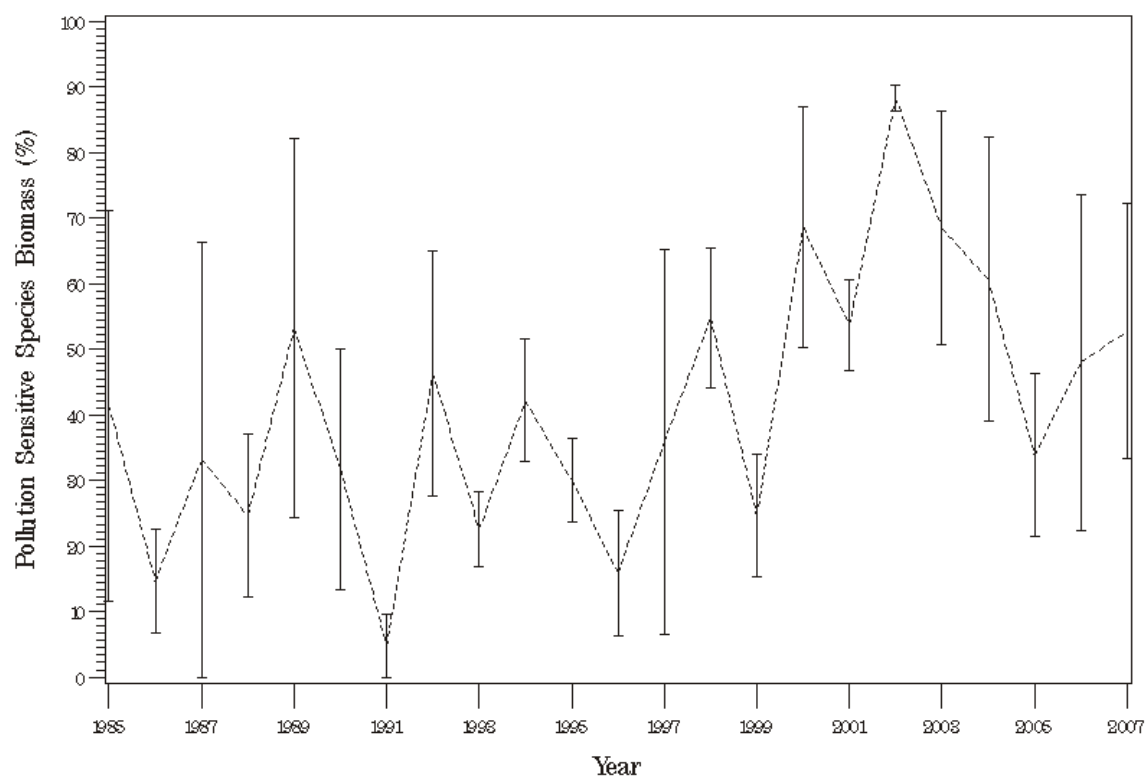


Figure L14. Plot of pollution sensitive species biomass at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

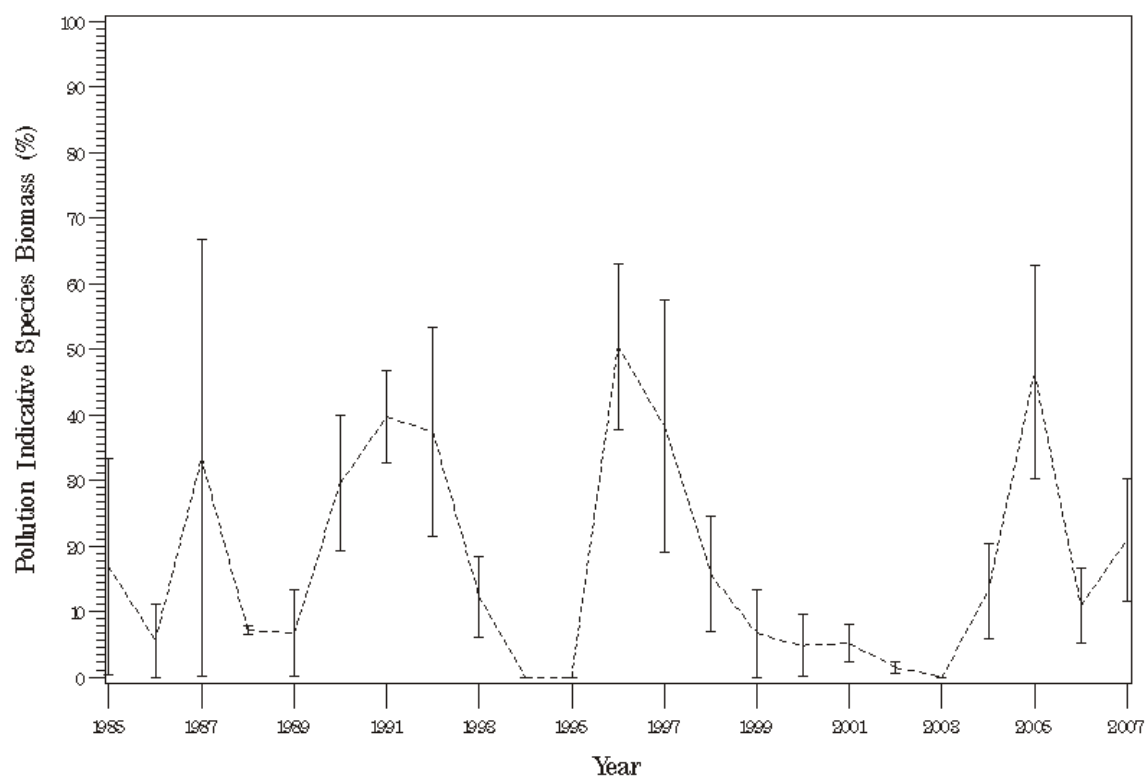


Figure L15. Plot of pollution indicative species biomass at station RET5.2 for 1985 through 2007.

## RET5.2 (2-J)

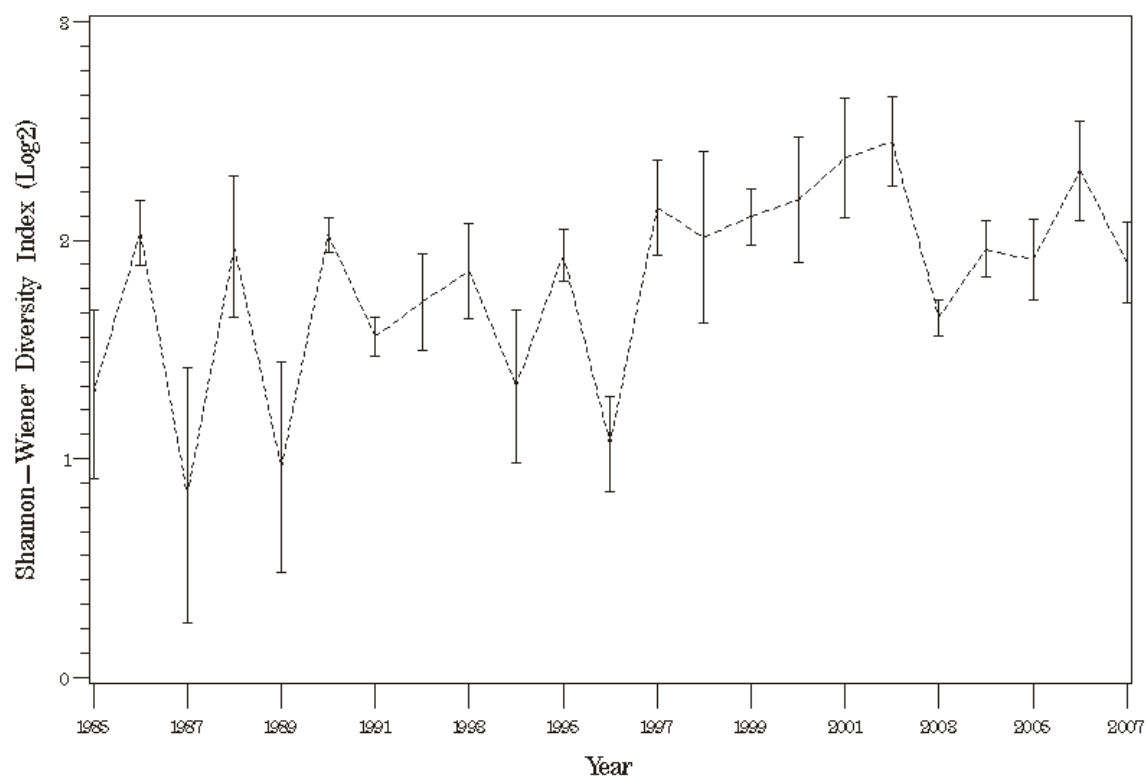


Figure L16. Plot of Shannon-Weiner diversity index at station RET5.2 for 1985 through 2007.

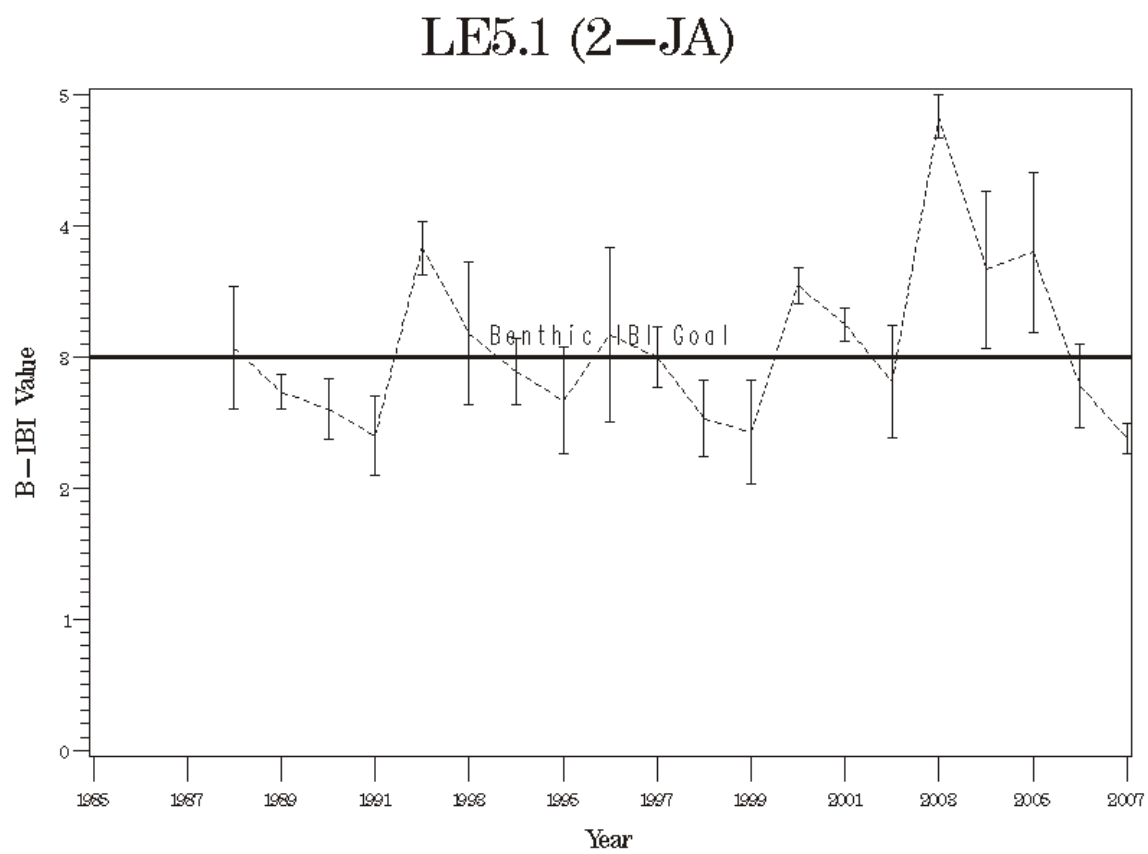


Figure L17. Plot of the benthic IBI against time at station LE5.1 for 1985 through 2007.

## LE5.1 (2-JA)

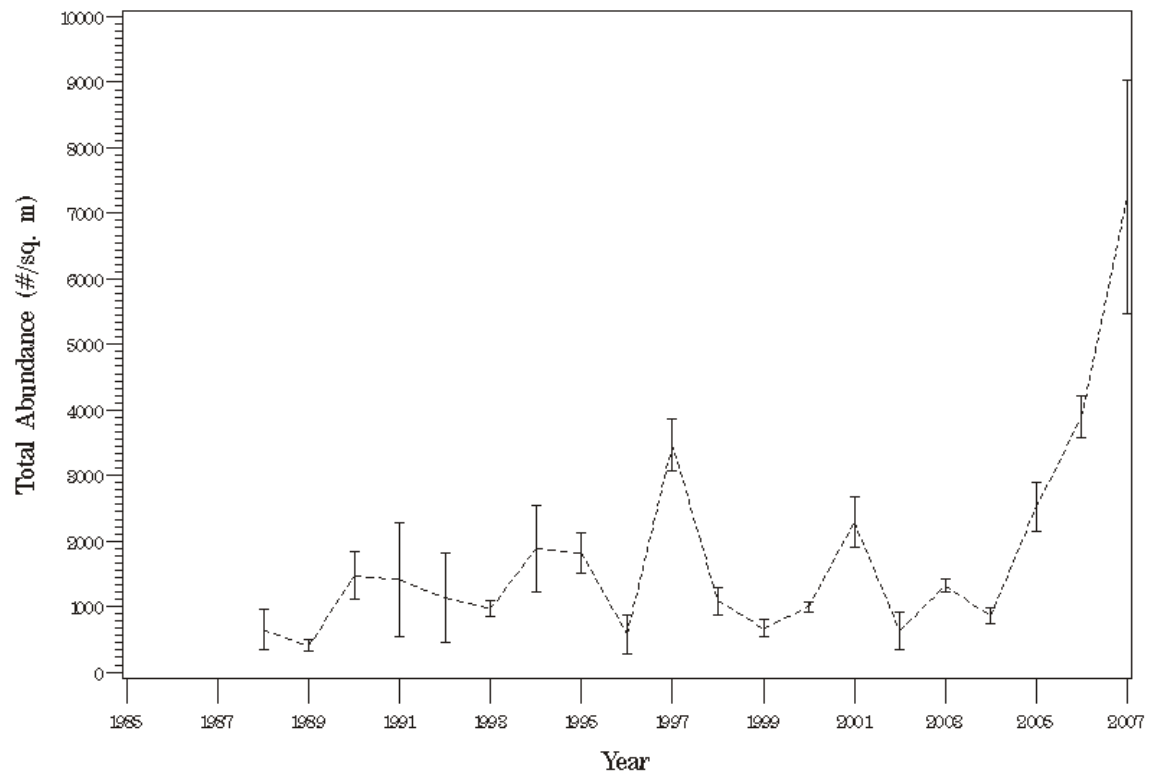


Figure L18. Plot of total benthic community abundance at station LE5.1 for 1985 through 2007.



## LE5.1 (2-JA)

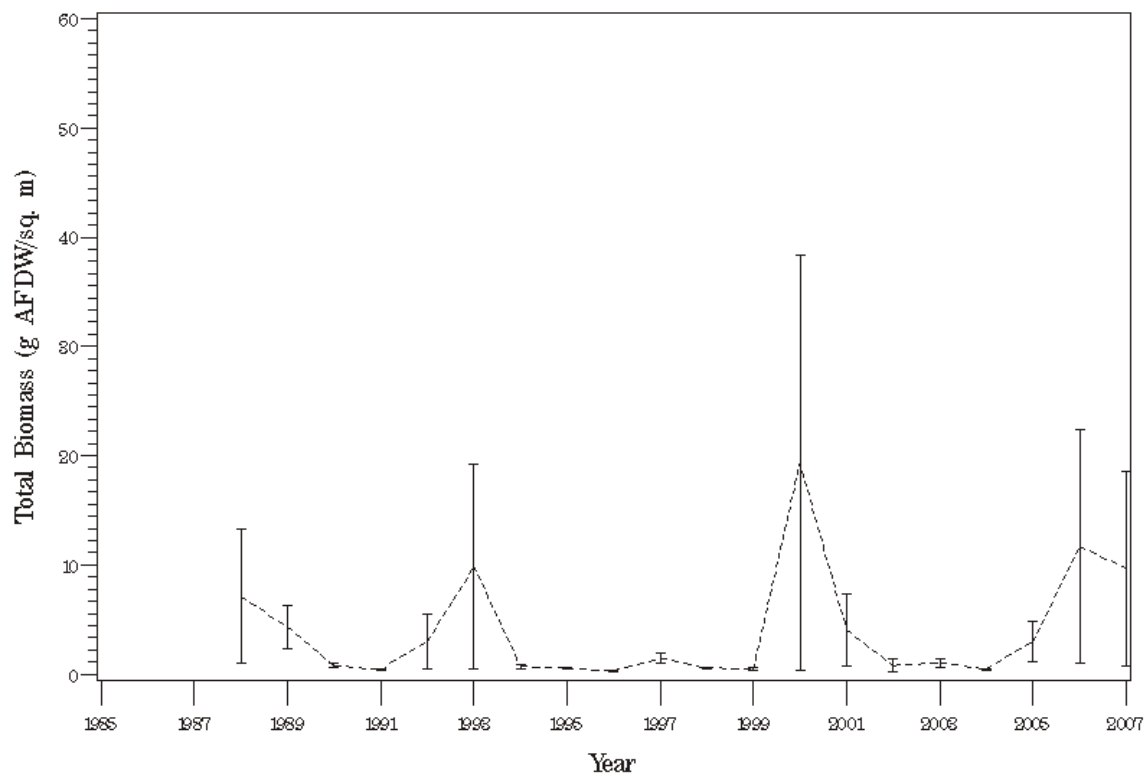


Figure L19. Plot of total benthic community biomass at station LE5.1 for 1985 through 2007.

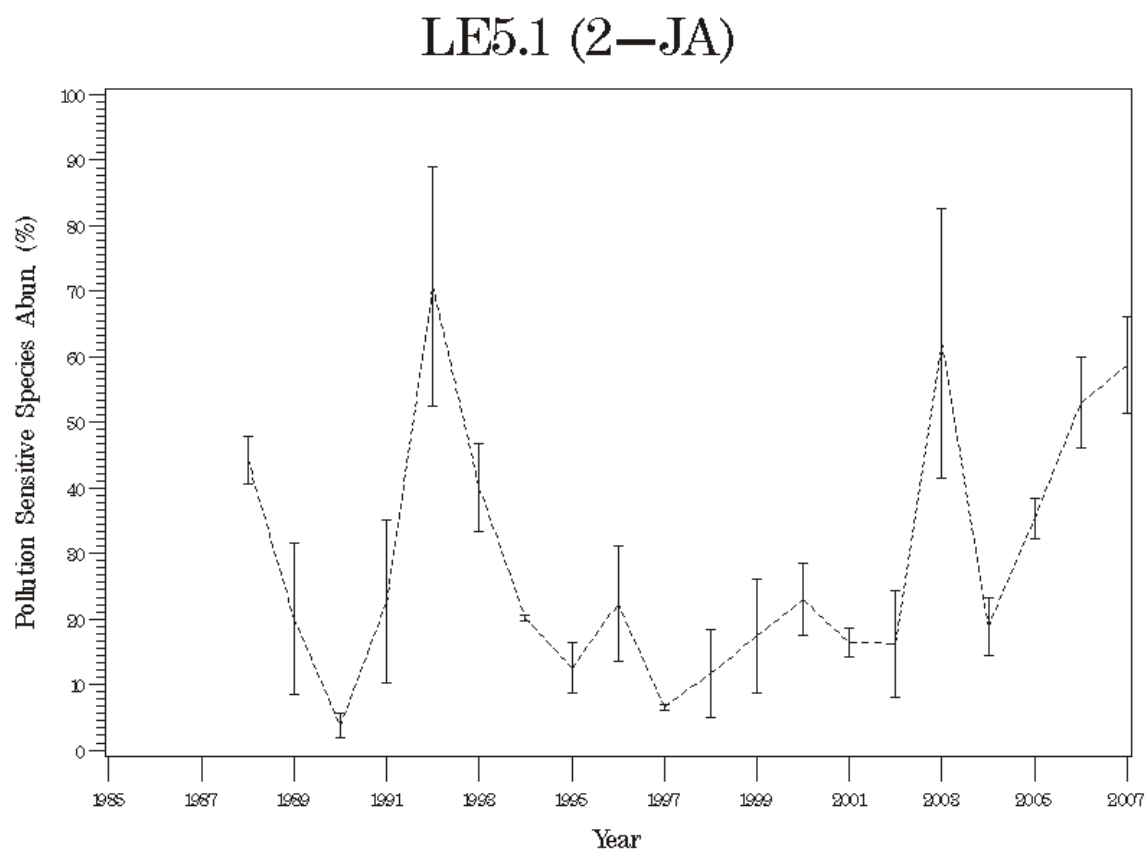


Figure L20. Plot of pollution sensitive species abundance at station LE5.1 for 1985 through 2007.

## LE5.1 (2-JA)

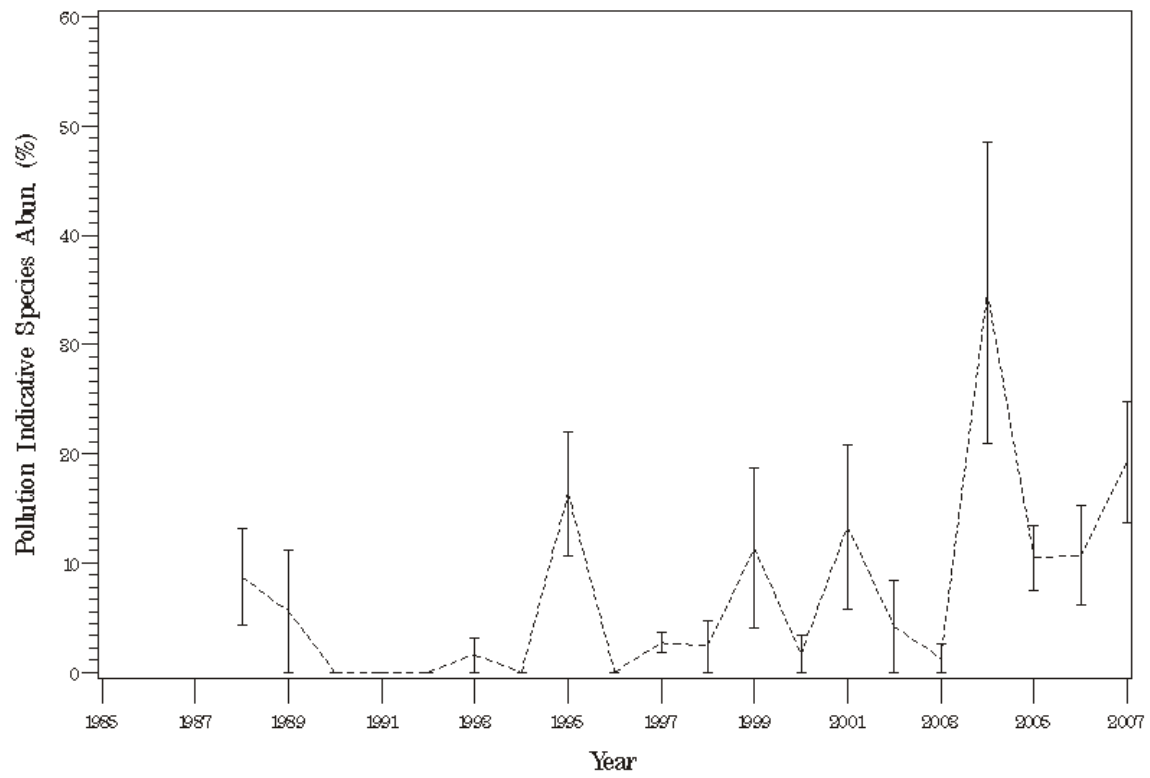


Figure L21. Plot of pollution indicative species abundance at station LE5.1 for 1985 through 2007.

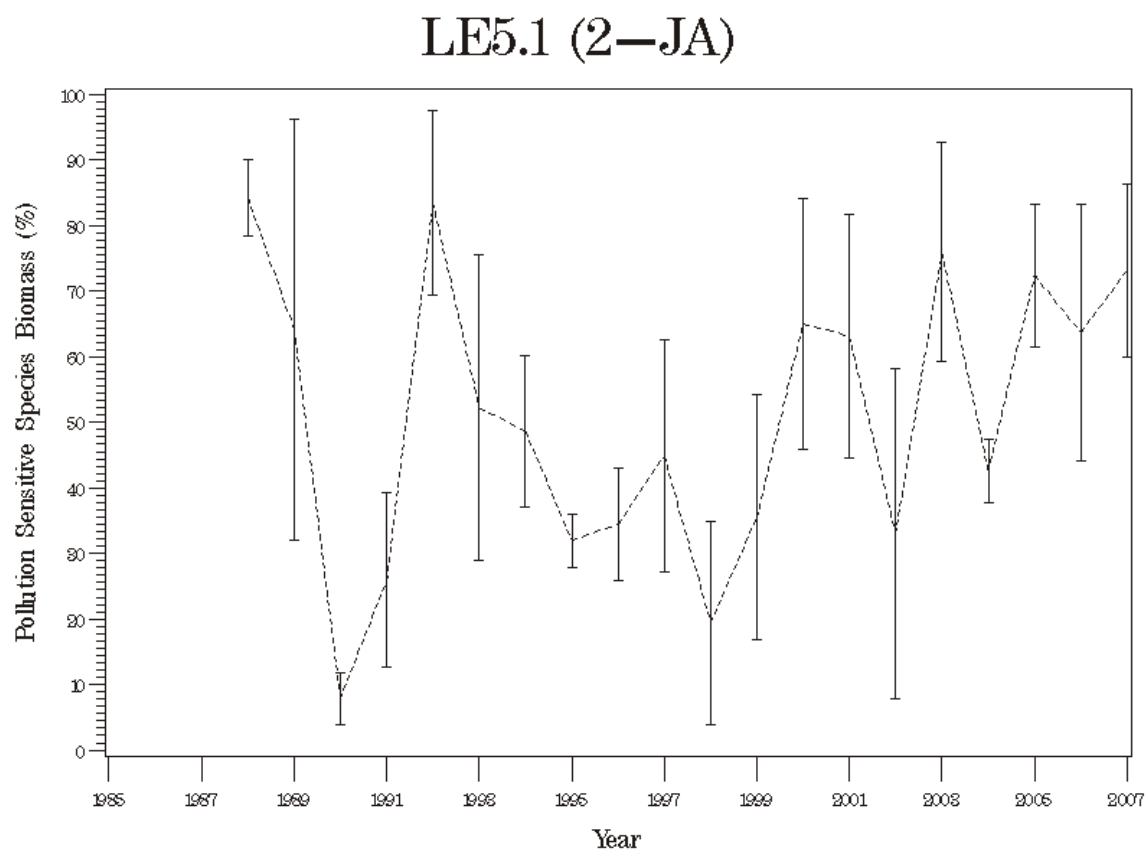


Figure L22. Plot of pollution sensitive species biomass at station LE5.1 for 1985 through 2007.

## LE5.1 (2-JA)

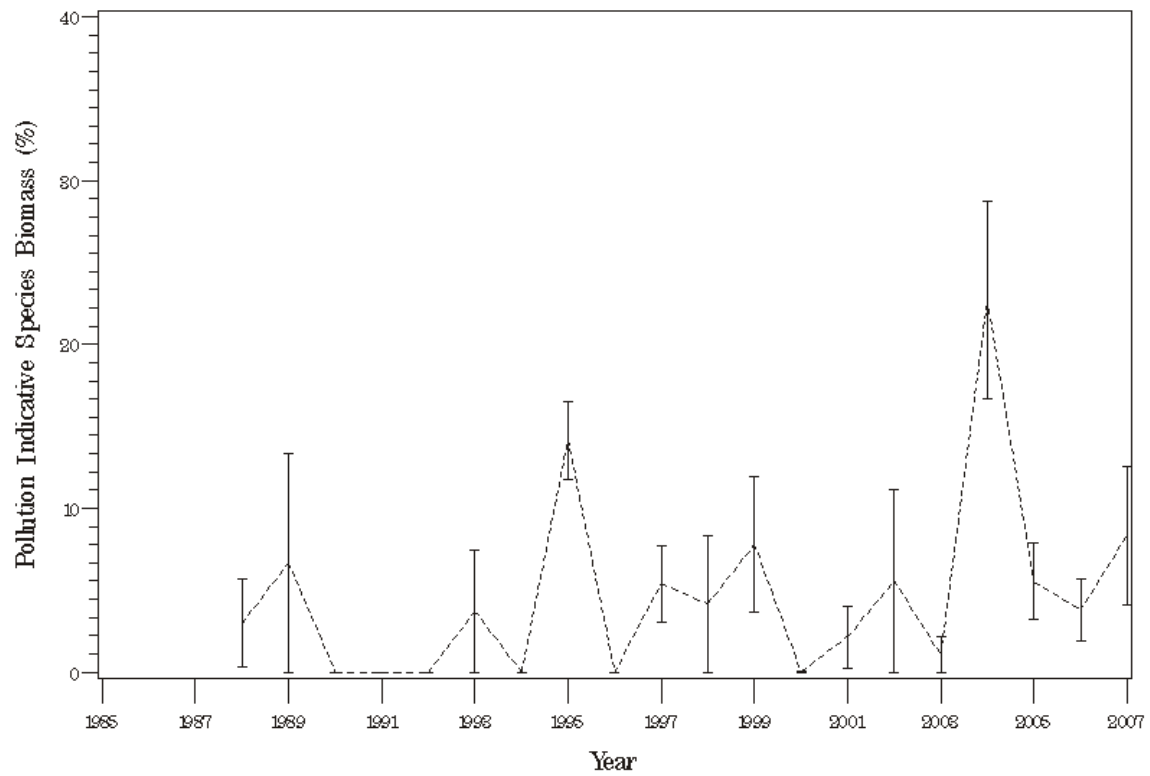


Figure L23. Plot of pollution indicative species biomass at station LE5.1 for 1985 through 2007.

## LE5.1 (2-JA)

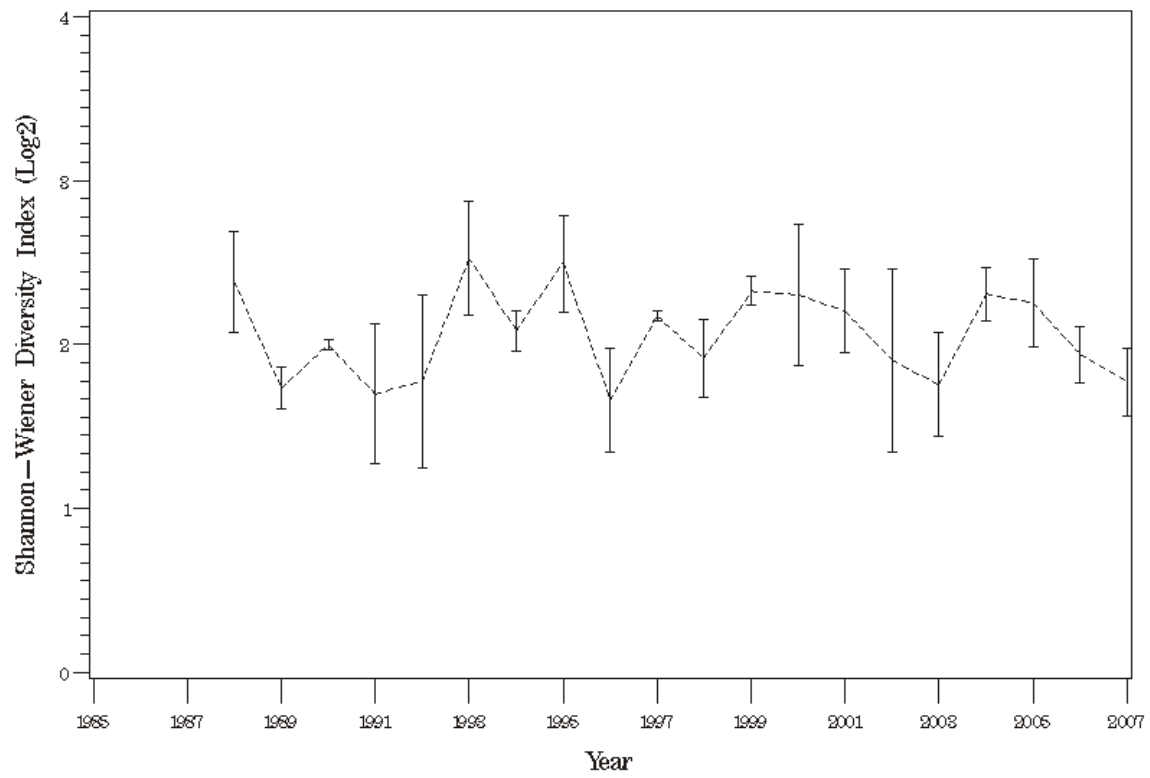


Figure L24. Plot of Shannon-Weiner diversity index at station LE5.1 for 1985 through 2007.

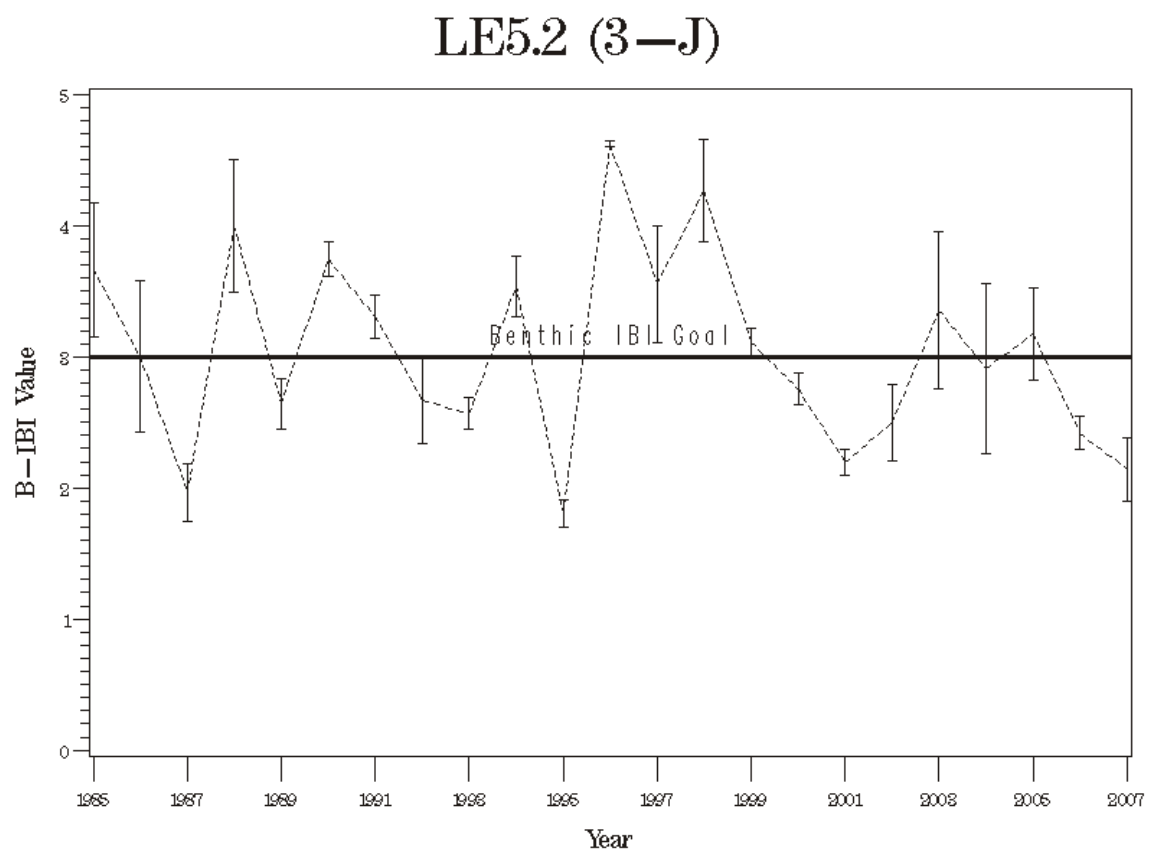


Figure L25. Plot of the benthic IBI against time at station LE5.2 for 1985 through 2007.

## LE5.2 (3-J)

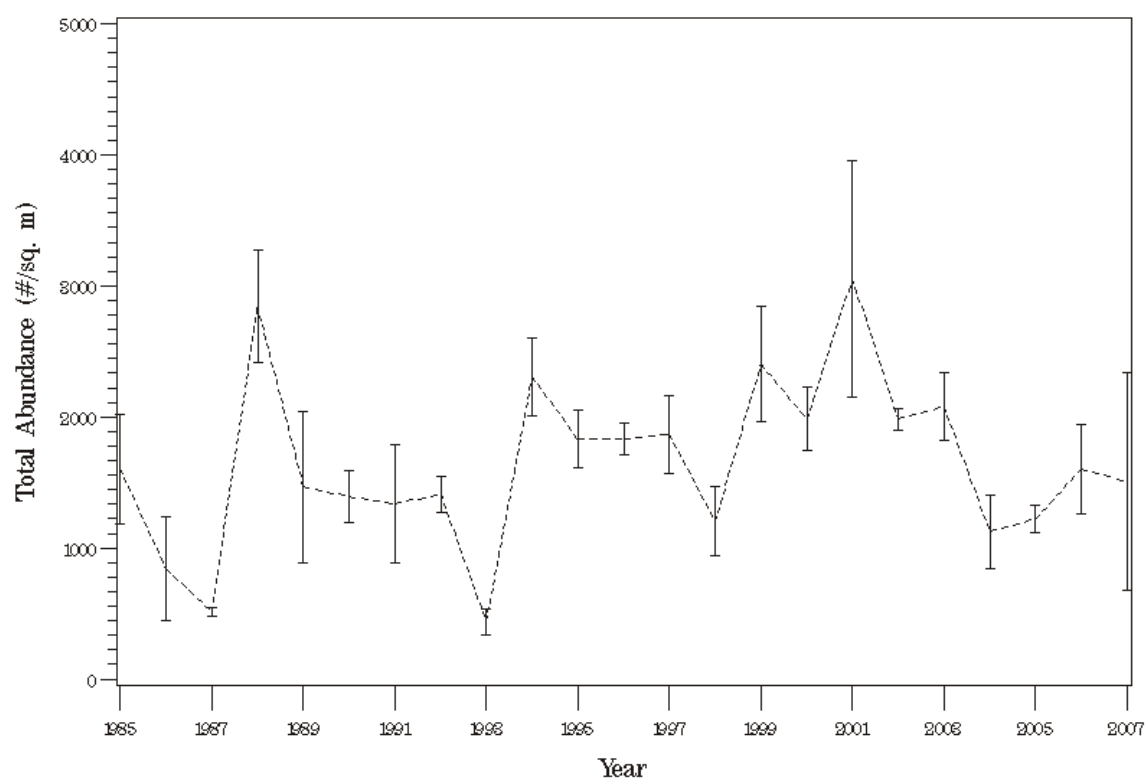


Figure L26. Plot of total benthic community abundance at station LE5.2 for 1985 through 2007.



## LE5.2 (3-J)

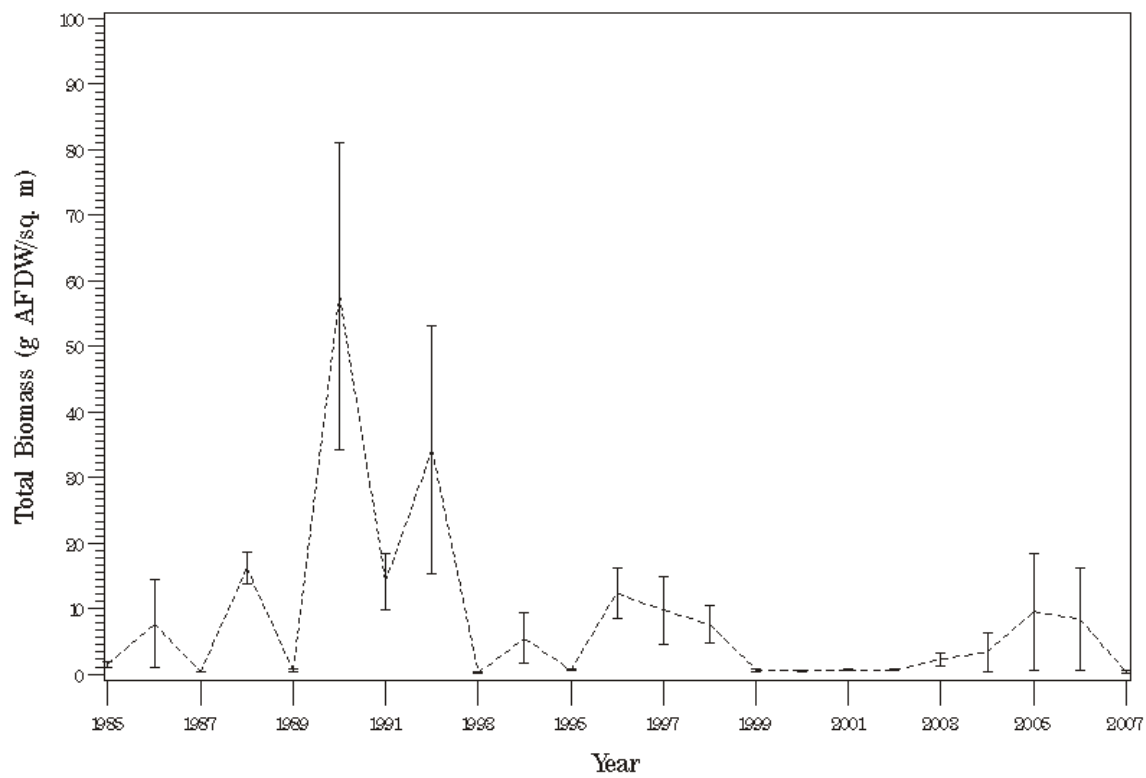


Figure L27. Plot of total benthic community biomass at station LE5.2 for 1985 through 2007.

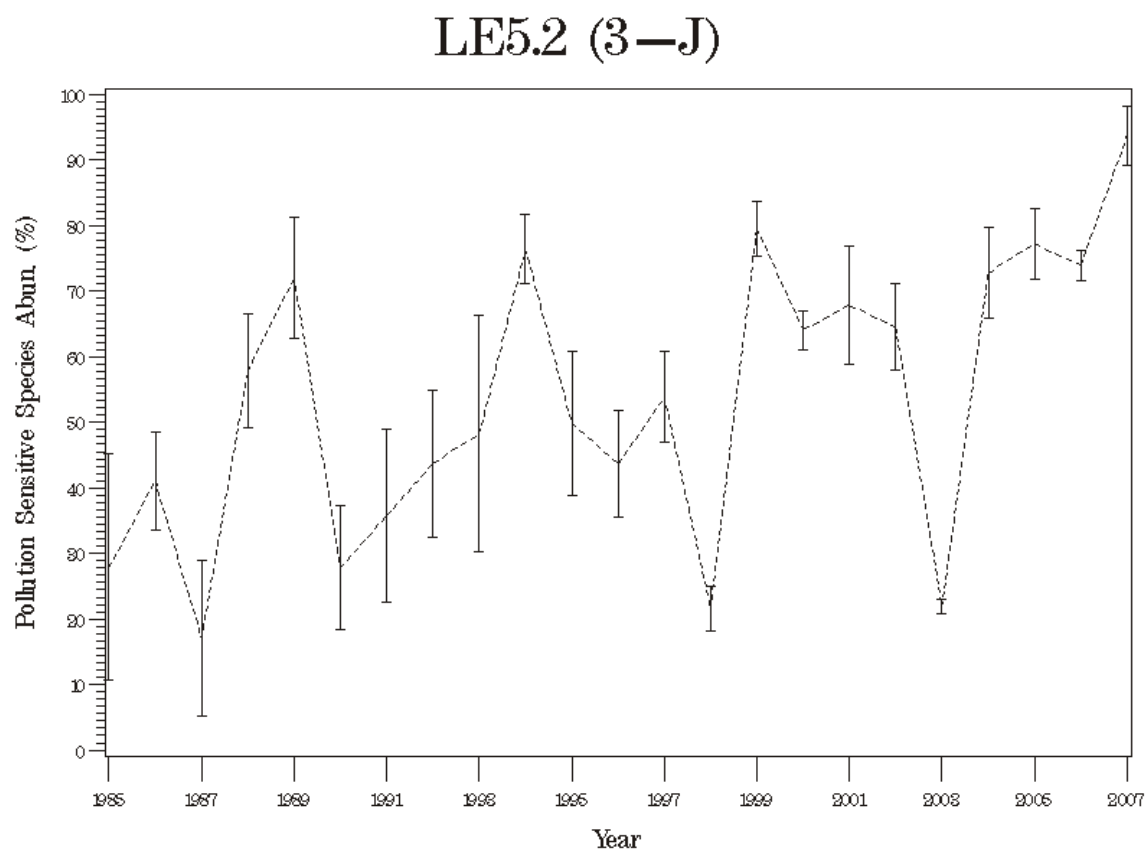


Figure L28. Plot of pollution sensitive species abundance at station LE5.2 for 1985 through 2007.

## LE5.2 (3-J)

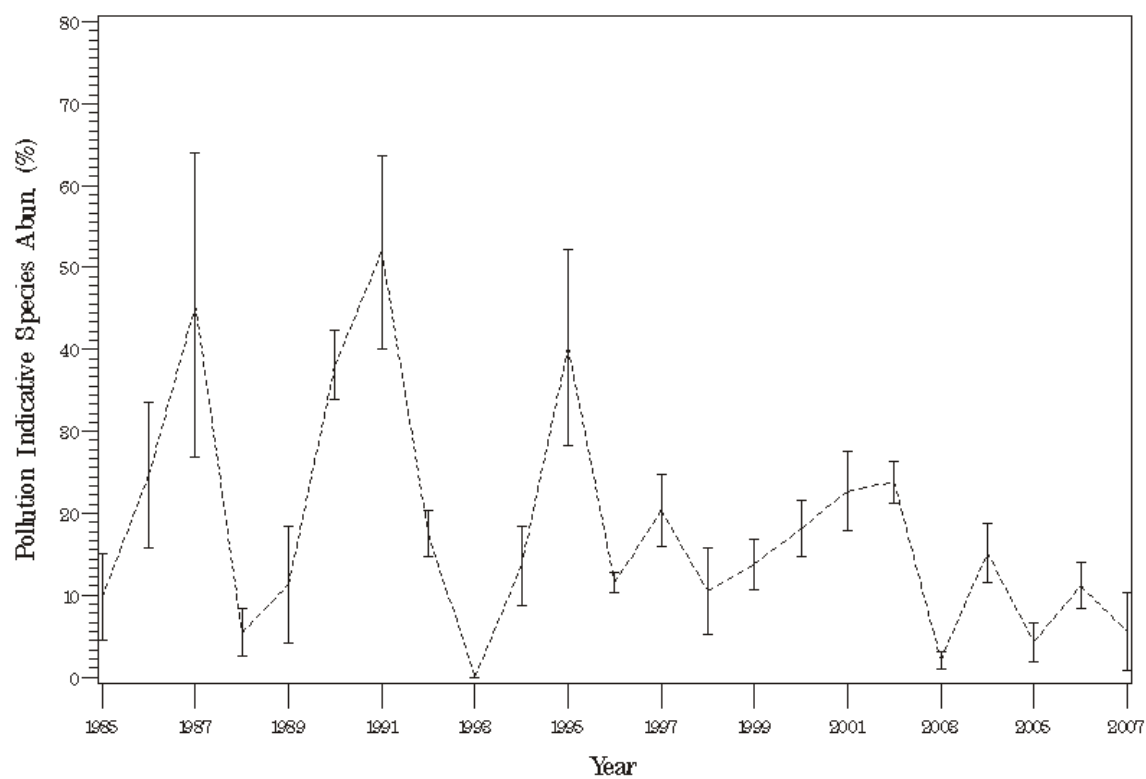


Figure L29. Plot of pollution indicative species abundance at station LE5.2 for 1985 through 2007.

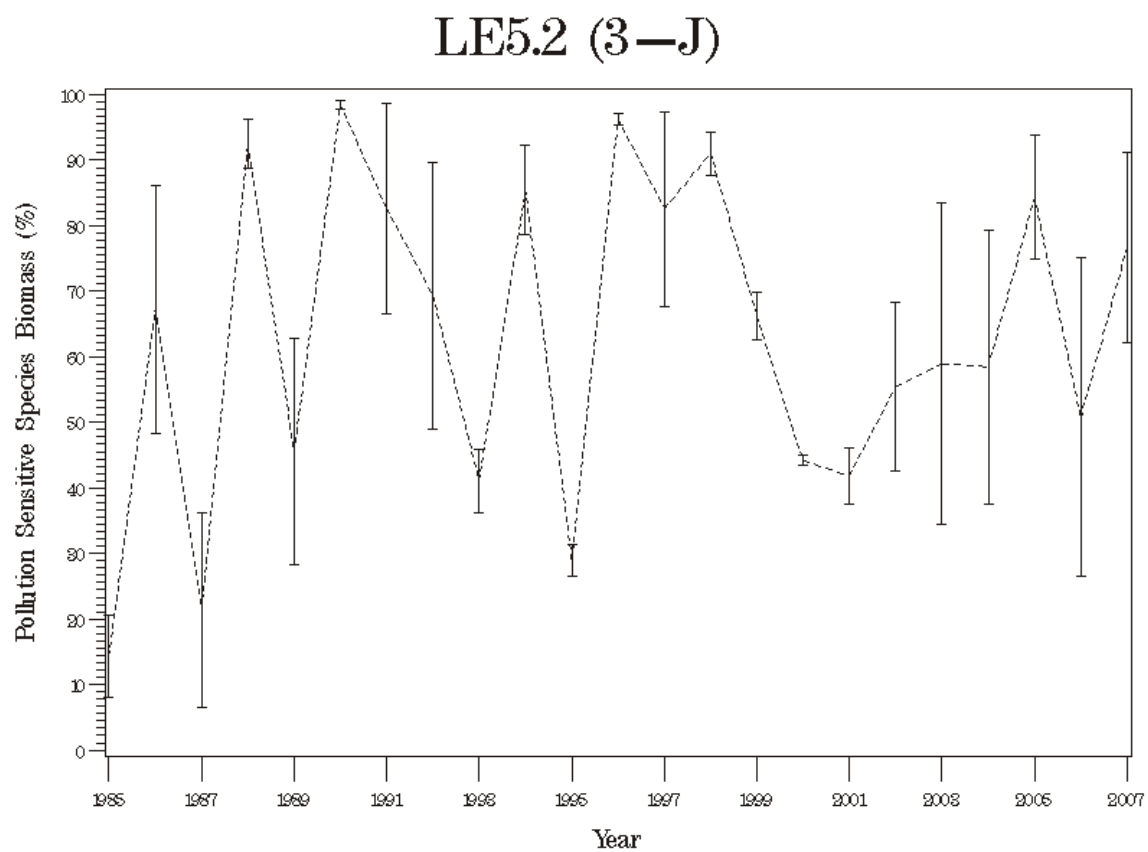


Figure L30. Plot of pollution sensitive species biomass at station LE5.2 for 1985 through 2007.

## LE5.2 (3-J)

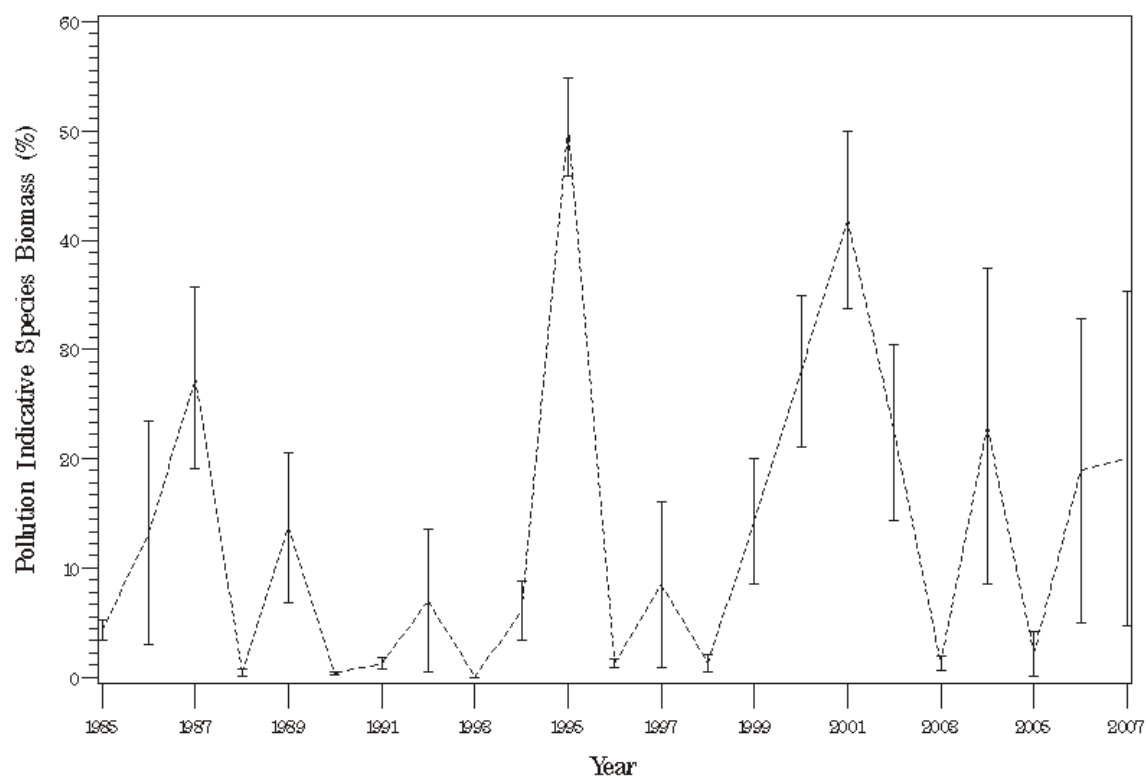


Figure L31. Plot of pollution indicative species biomass at station LE5.2 for 1985 through 2007.

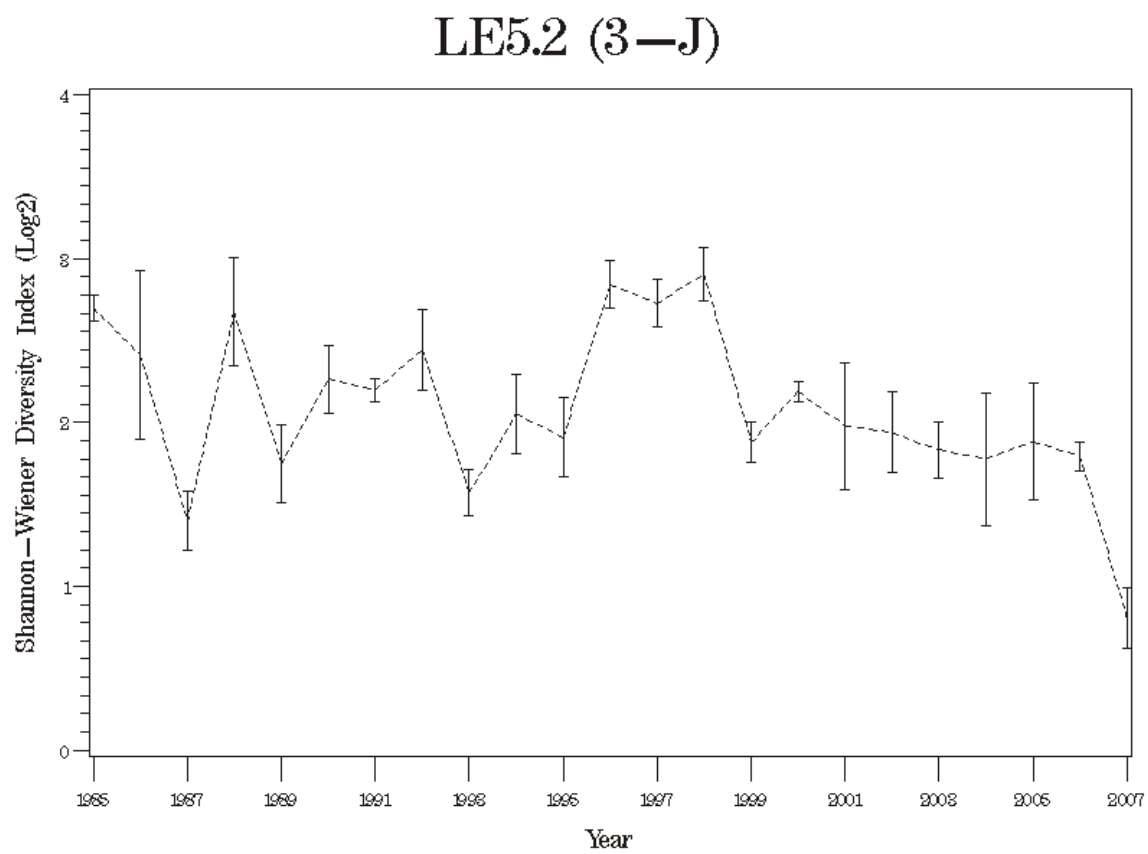


Figure L32. Plot of Shannon-Weiner diversity index at station LE5.2 for 1985 through 2007.

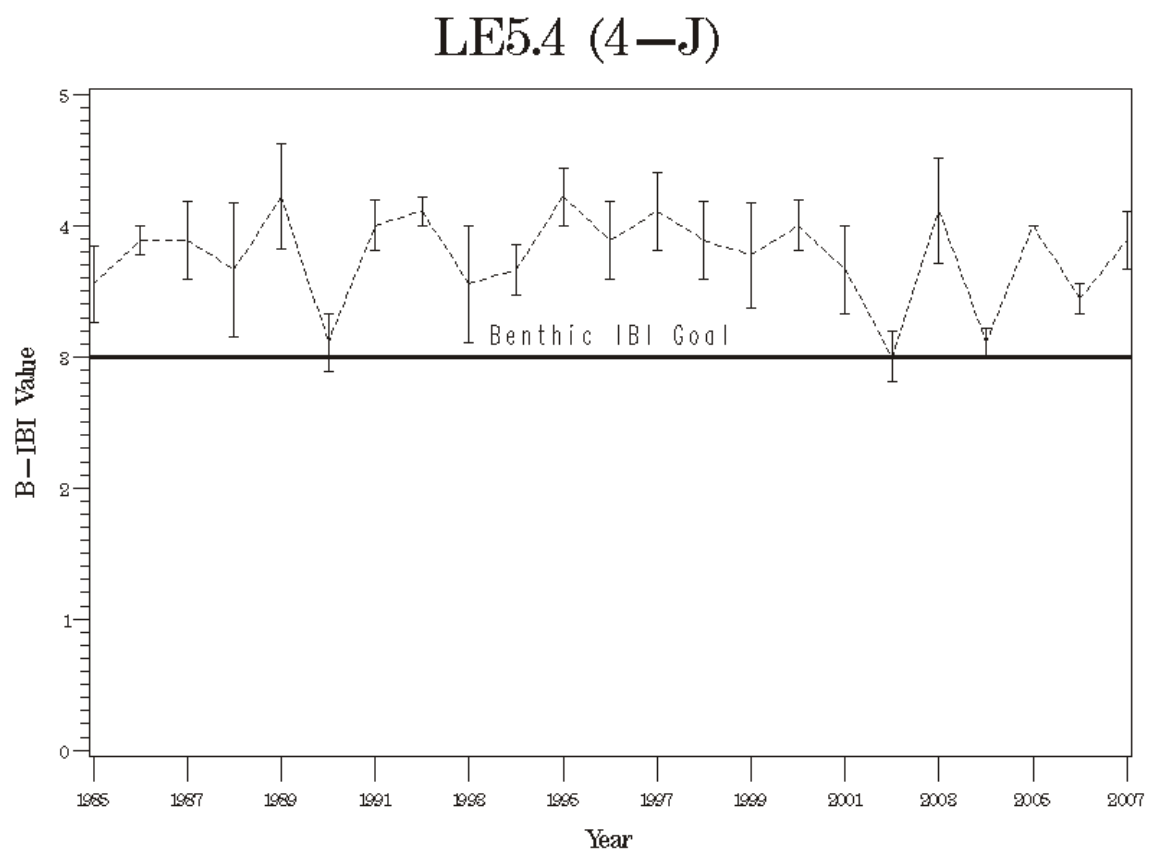


Figure L33. Plot of the benthic IBI against time at station LE5.4 for 1985 through 2007.

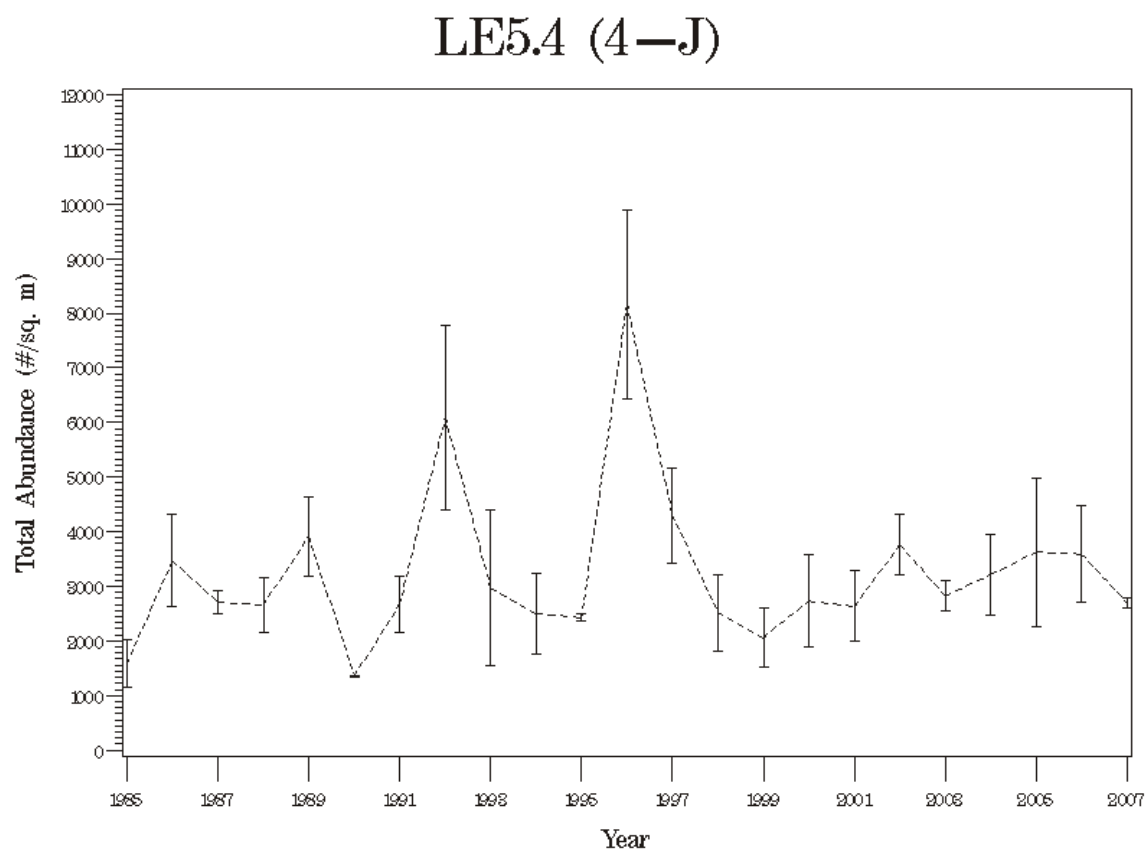


Figure L34. Plot of total benthic community abundance at station LE5.4 for 1985 through 2007.



## LE5.4 (4-J)

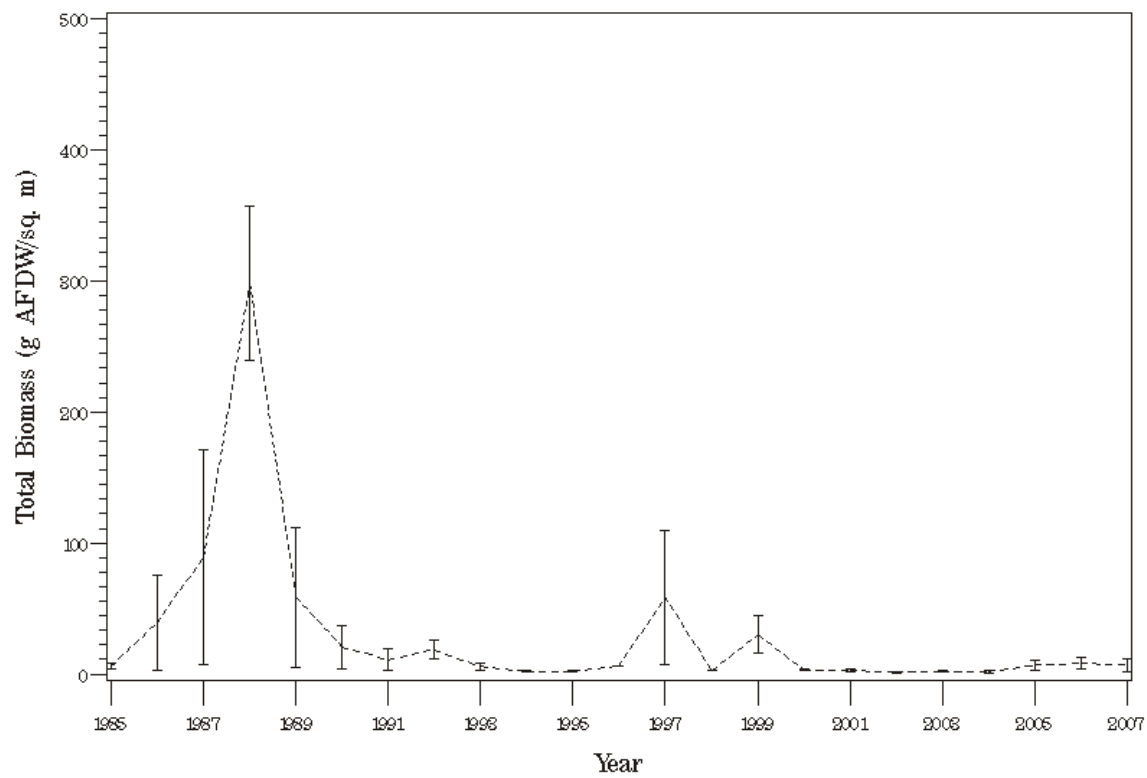


Figure L35. Plot of total benthic community biomass at station LE5.4 for 1985 through 2007.

## LE5.4 (4-J)

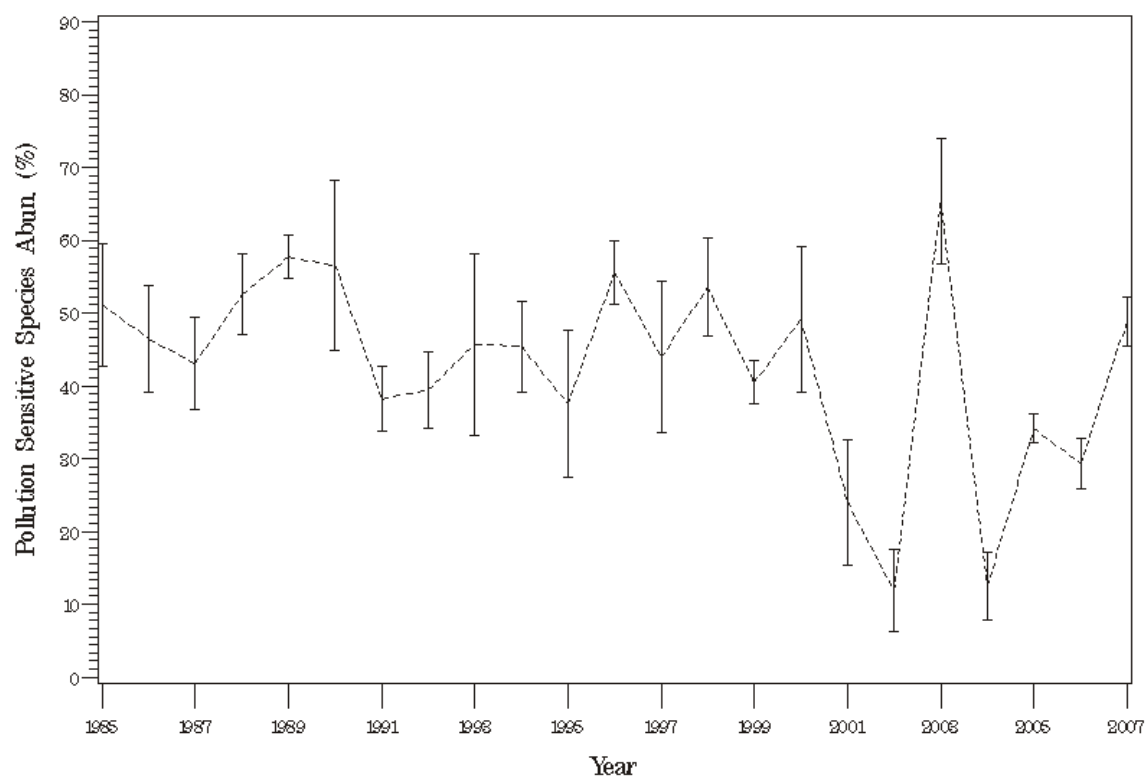


Figure L36. Plot of pollution sensitive species abundance at station LE5.4 for 1985 through 2007.

## LE5.4 (4-J)

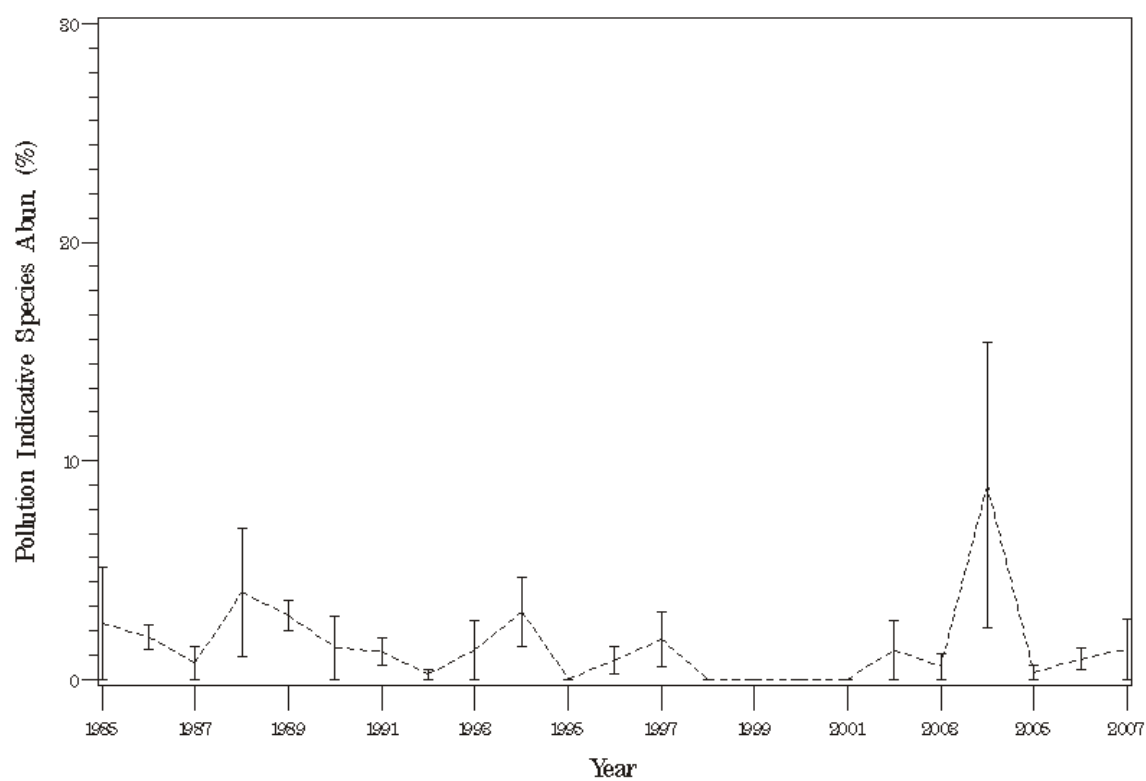


Figure L37. Plot of pollution indicative species abundance at station LE5.4 for 1985 through 2007.

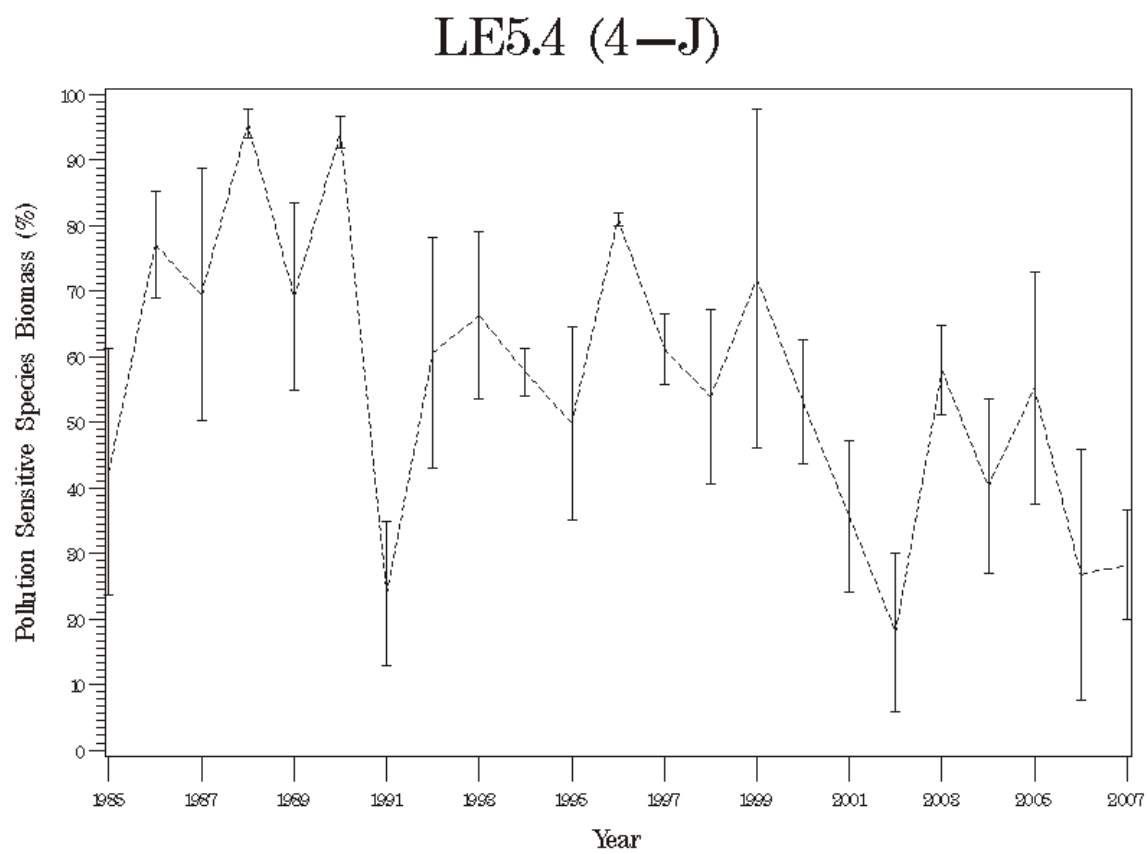


Figure L38. Plot of pollution sensitive species biomass at station LE5.4 for 1985 through 2007.

## LE5.4 (4-J)

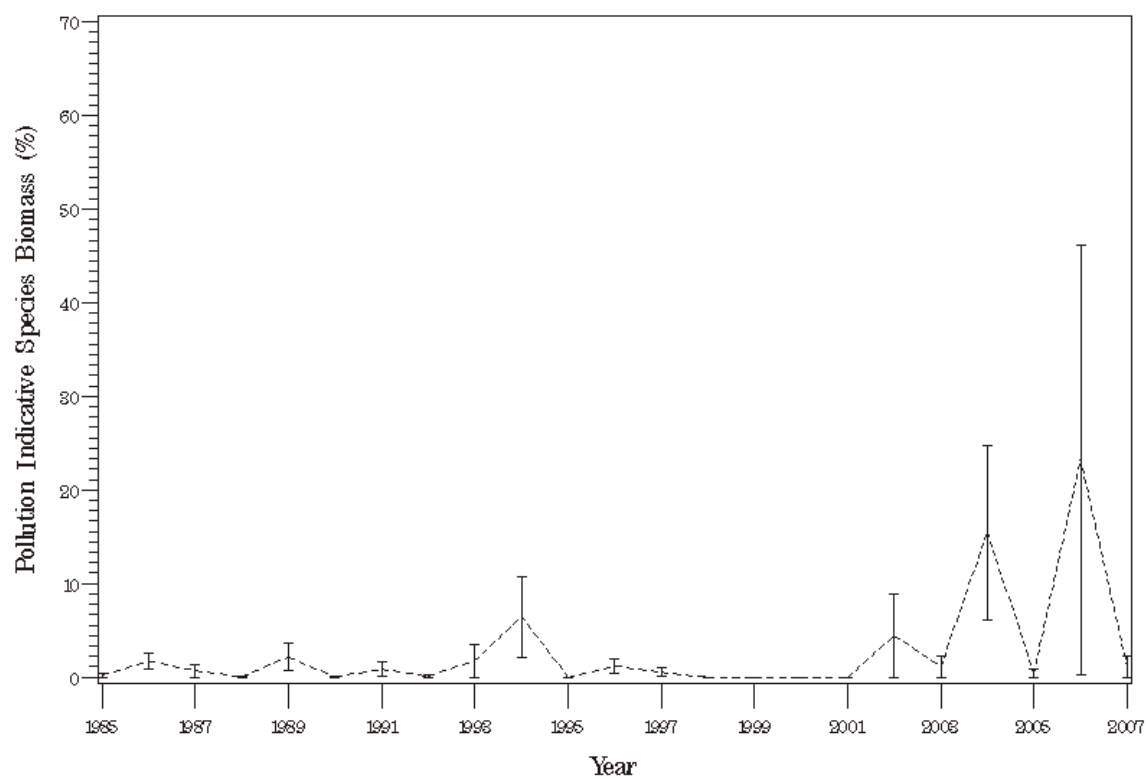


Figure L39. Plot of pollution indicative species biomass at station LE5.4 for 1985 through 2007.

## LE5.4 (4-J)

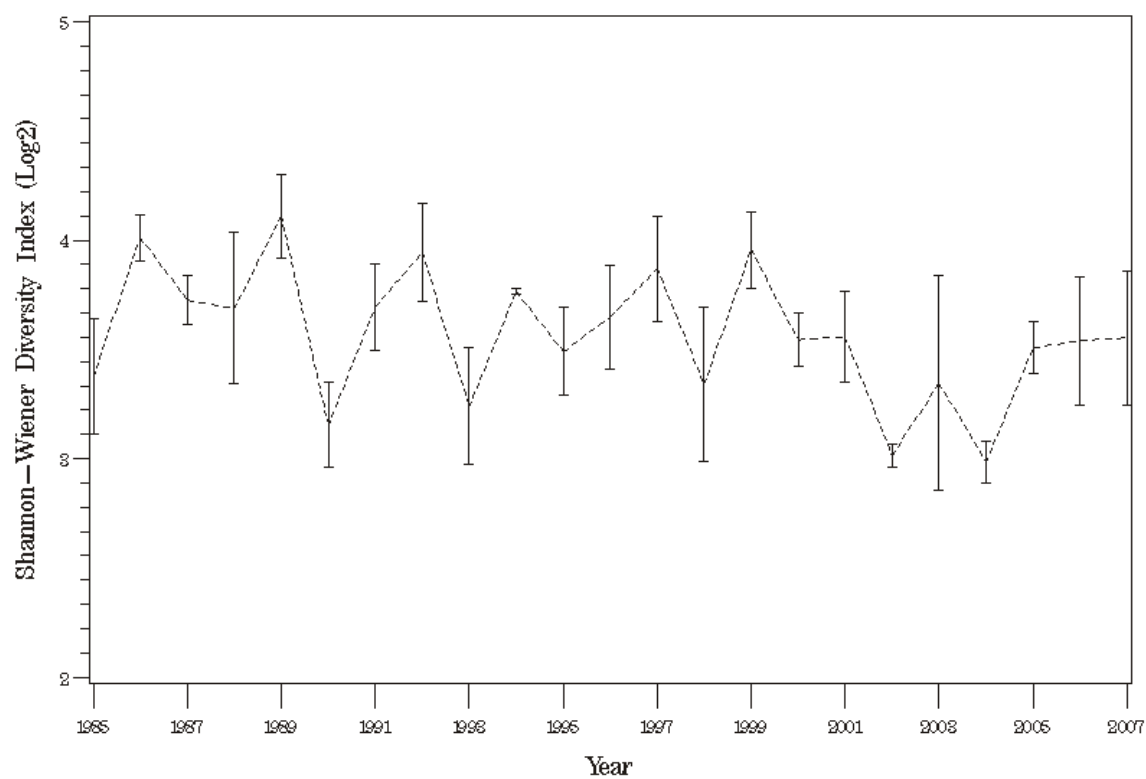


Figure L40. Plot of Shannon-Weiner diversity index at station LE5.4 for 1985 through 2007.

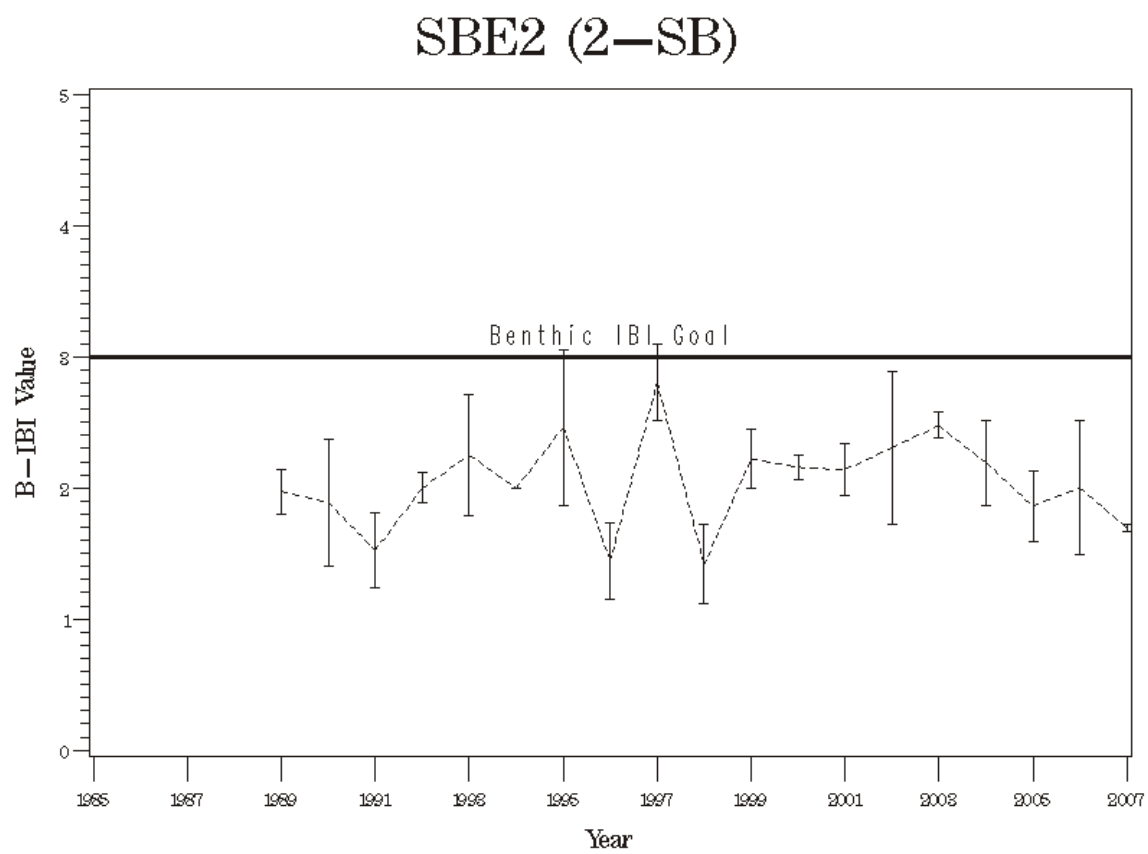


Figure L41. Plot of the benthic IBI against time at station SBE2 for 1985 through 2007.

## SBE2 (2-SB)

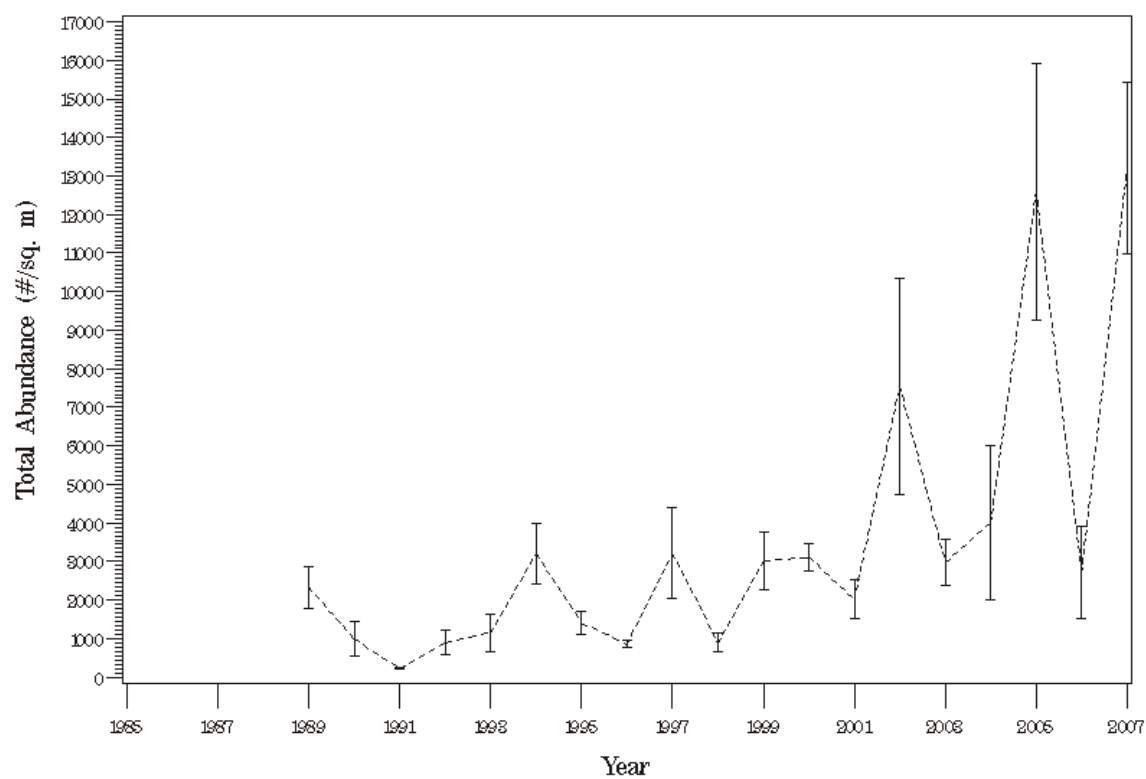


Figure L42. Plot of total benthic community abundance at station SBE2 for 1985 through 2007.



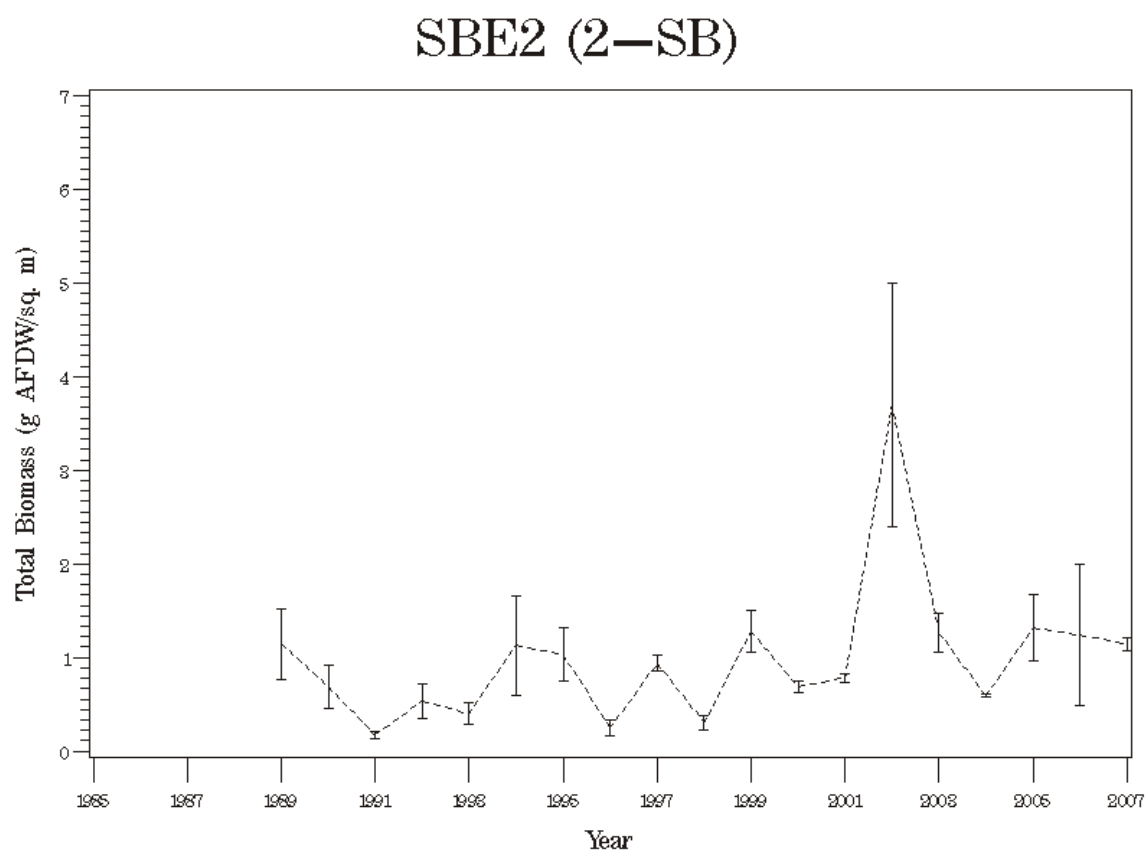


Figure L43. Plot of total benthic community biomass at station SBE2 for 1985 through 2007.

## SBE2 (2-SB)

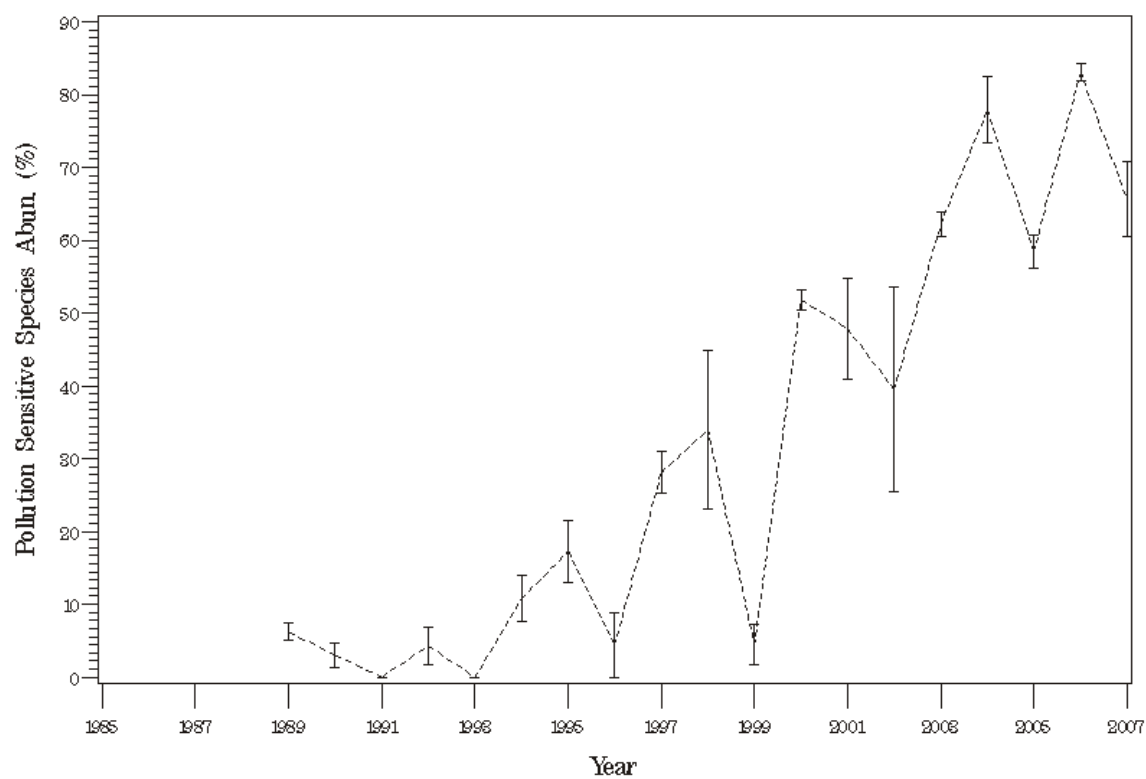


Figure L44. Plot of pollution sensitive species abundance at station SBE2 for 1985 through 2007.

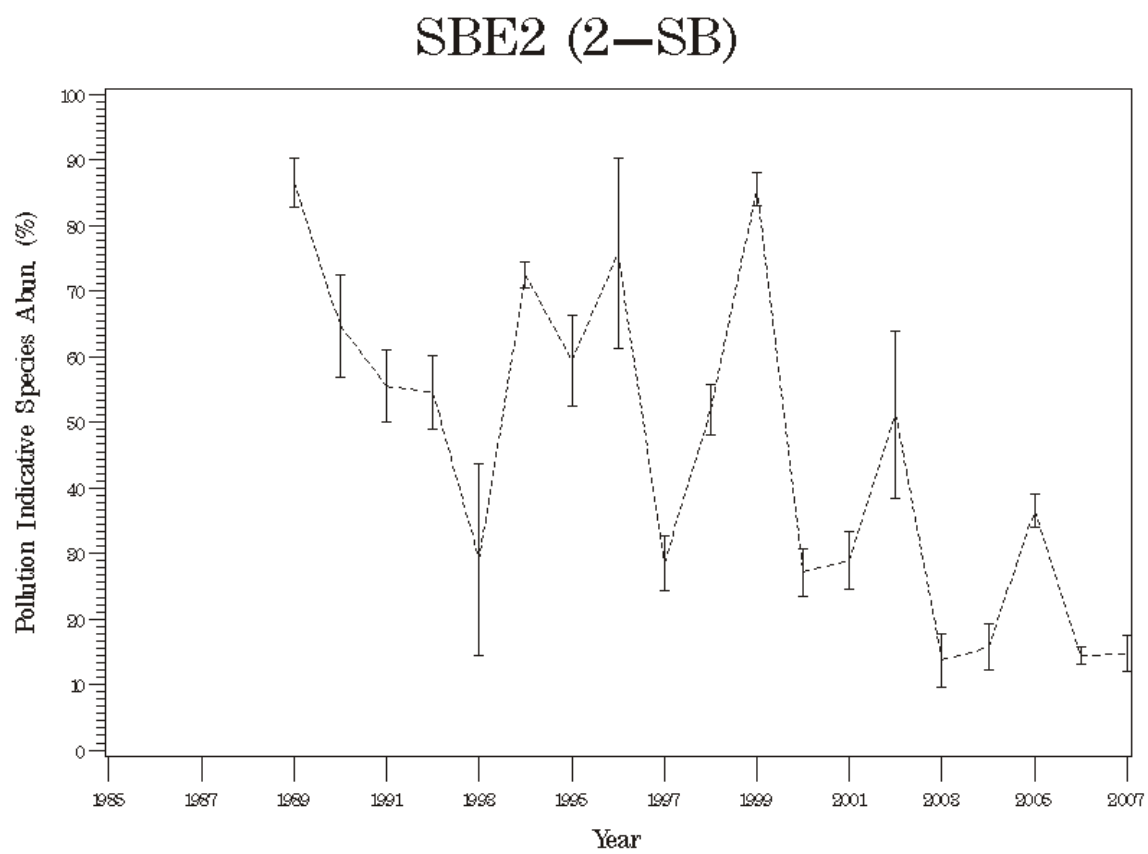


Figure L45. Plot of pollution indicative species abundance at station SBE2 for 1985 through 2007.

## SBE2 (2-SB)

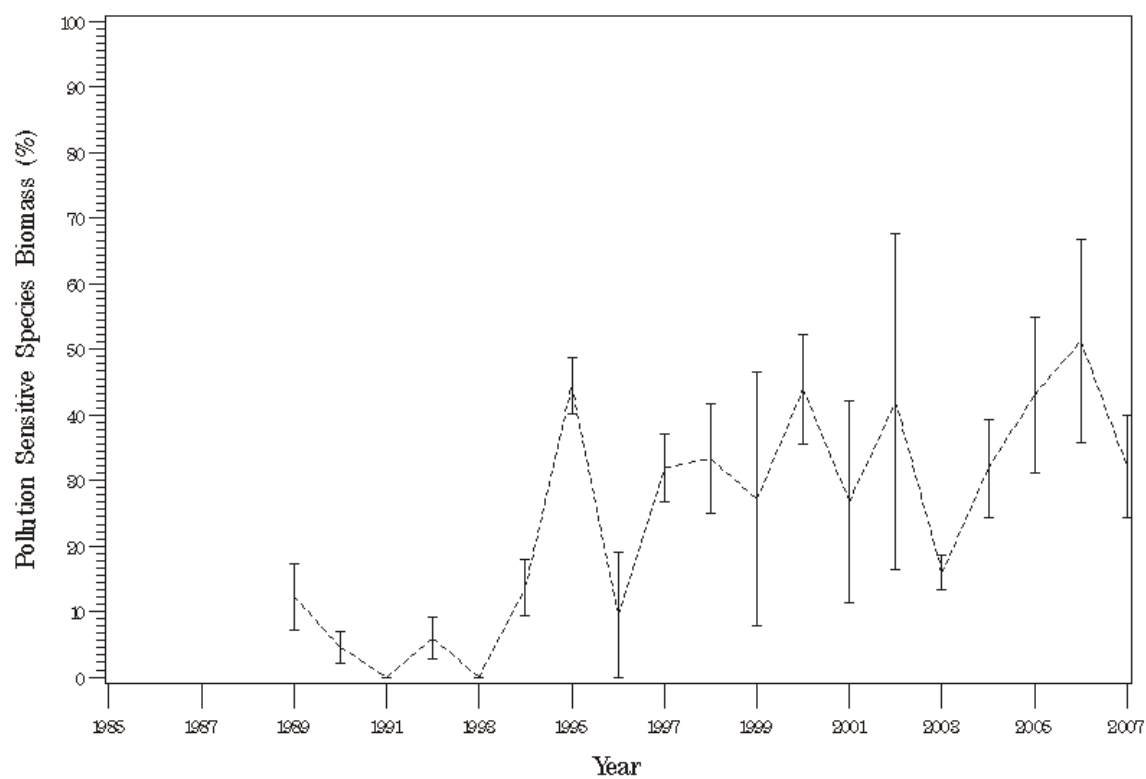


Figure L46. Plot of pollution sensitive species biomass at station SBE2 for 1985 through 2007.

## SBE2 (2-SB)

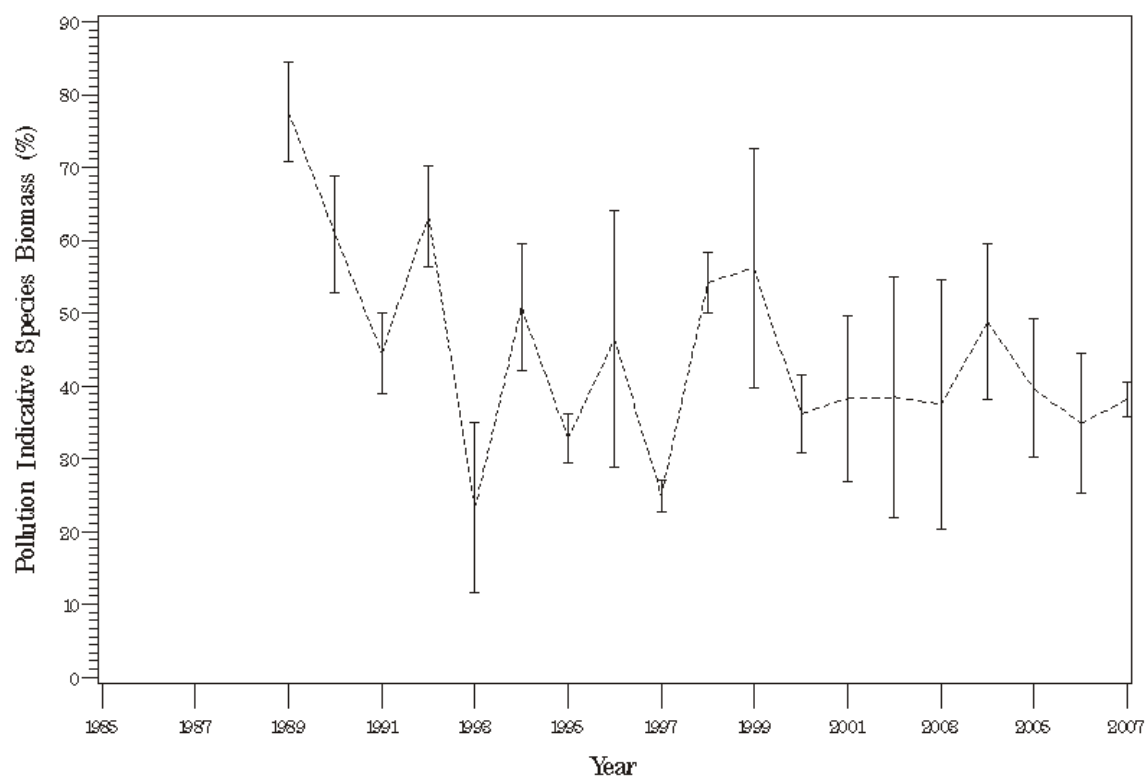


Figure L47. Plot of pollution indicative species biomass at station SBE2 for 1985 through 2007.

## SBE2 (2-SB)

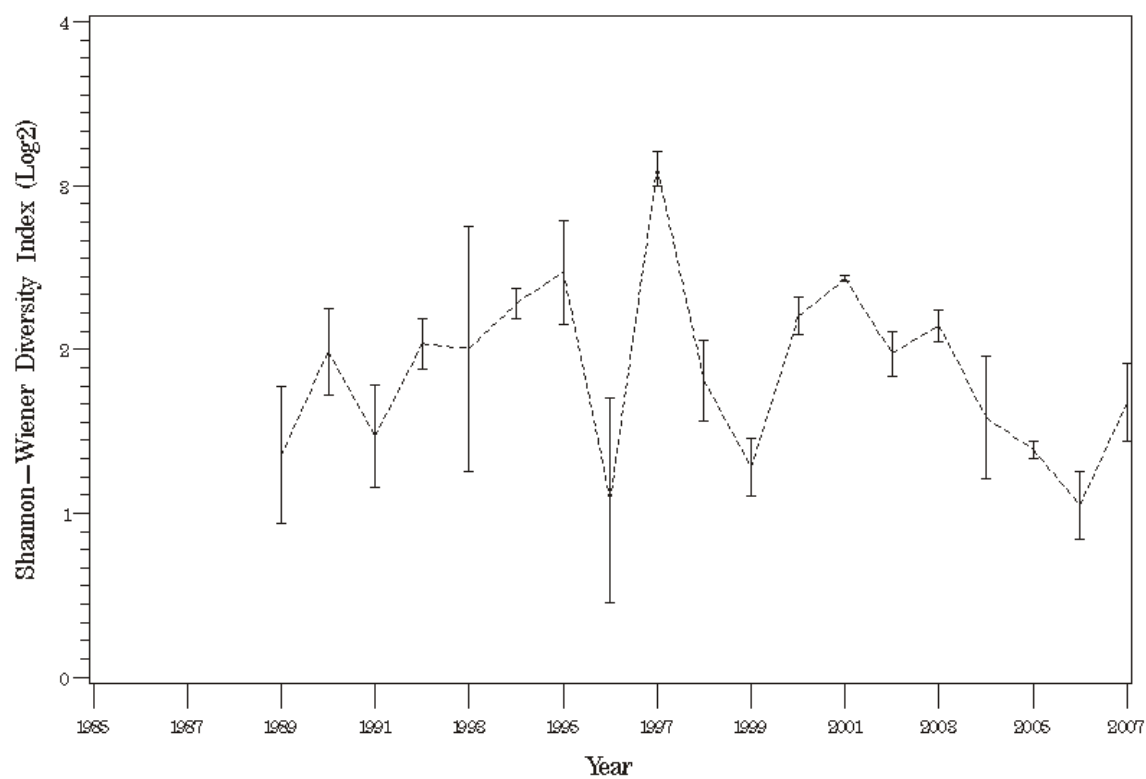


Figure L48. Plot of Shannon-Weiner diversity index at station SBE2 for 1985 through 2007.

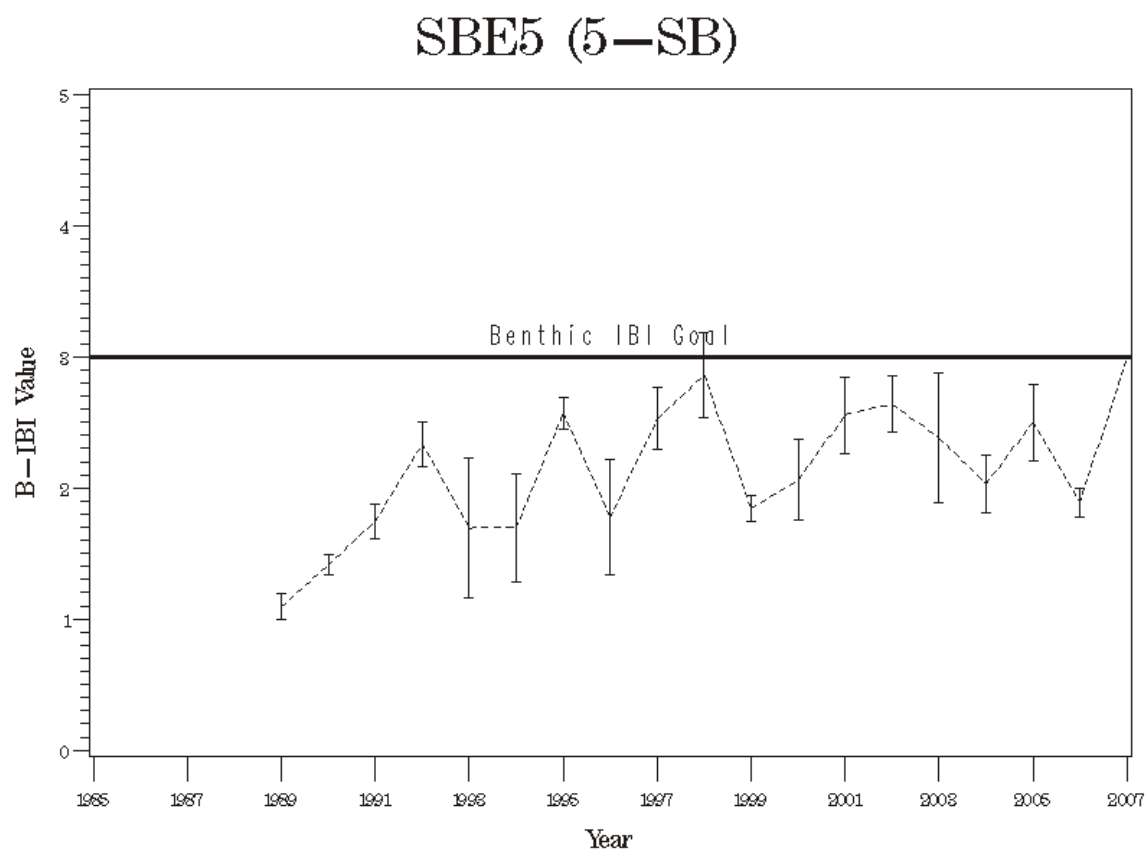


Figure L49. Plot of the benthic IBI against time at station SBE5 for 1985 through 2007.

## SBE5 (5-SB)

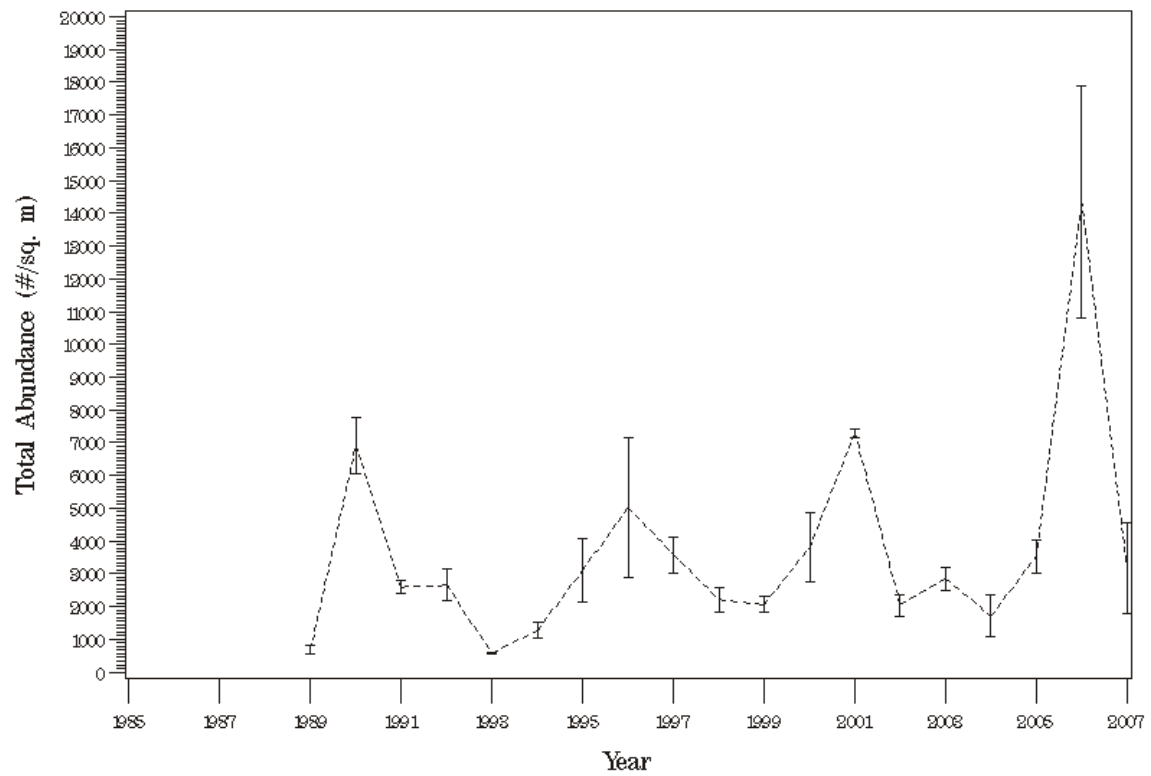


Figure L50. Plot of total benthic community abundance at station SBE5 for 1985 through 2007.



## SBE5 (5—SB)

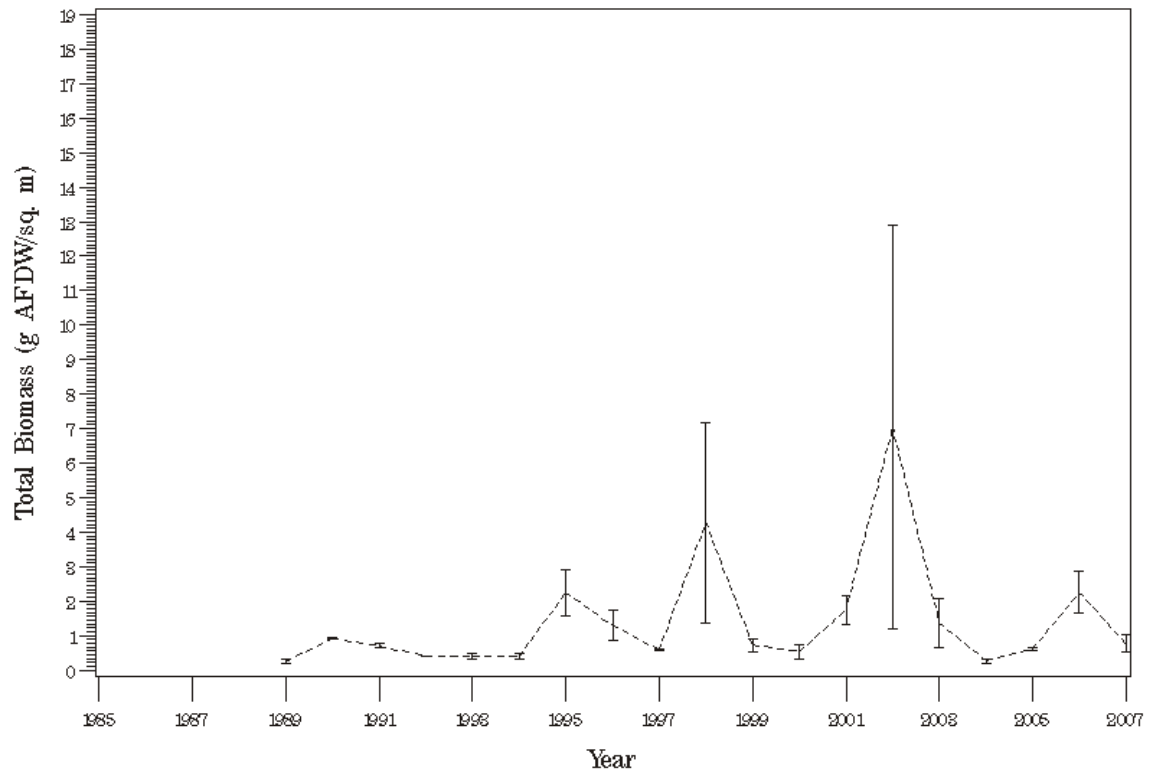


Figure L51. Plot of total benthic community biomass at station SBE5 for 1985 through 2007.

## SBE5 (5-SB)

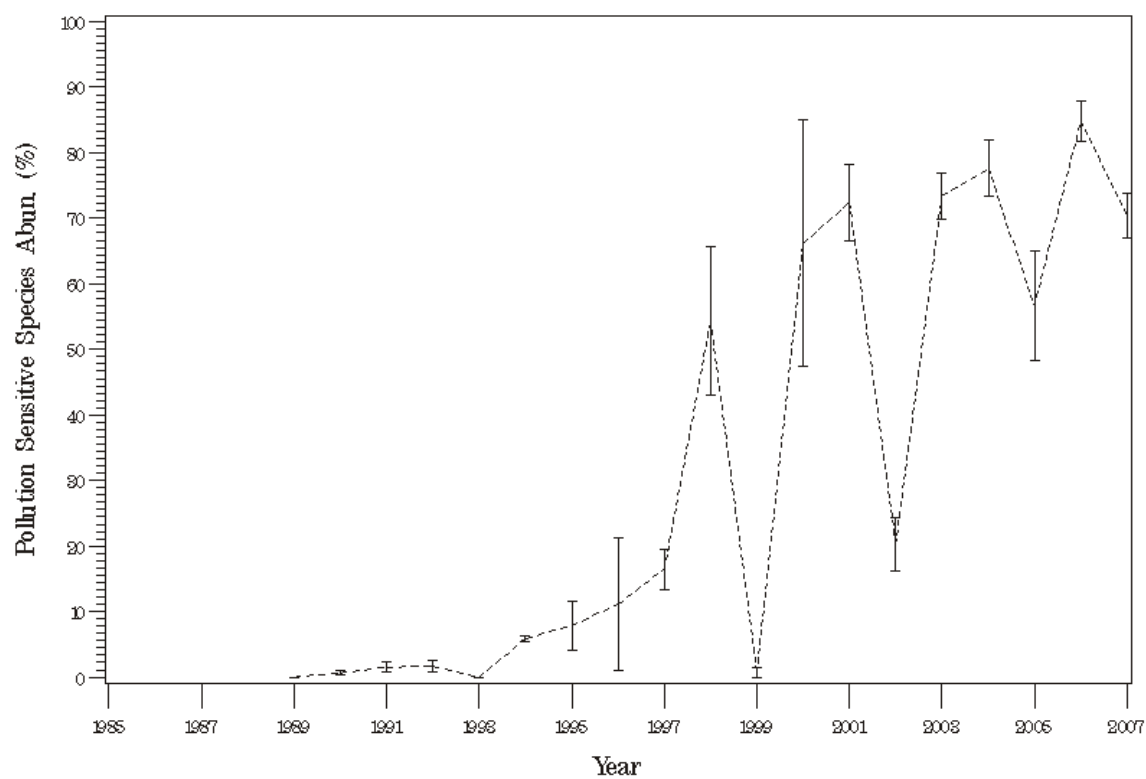


Figure L52. Plot of pollution sensitive species abundance at station SBE5 for 1985 through 2007.

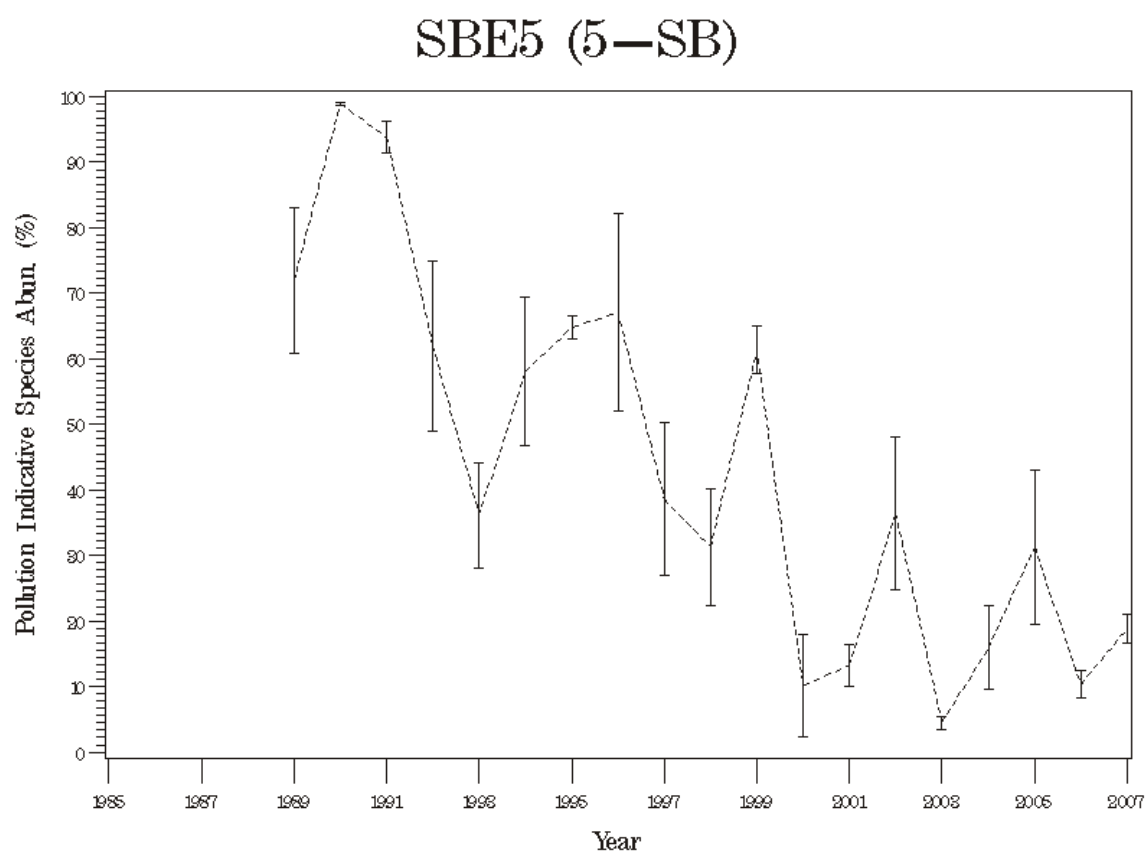


Figure L53. Plot of pollution indicative species abundance at station SBE5 for 1985 through 2007.

## SBE5 (5-SB)

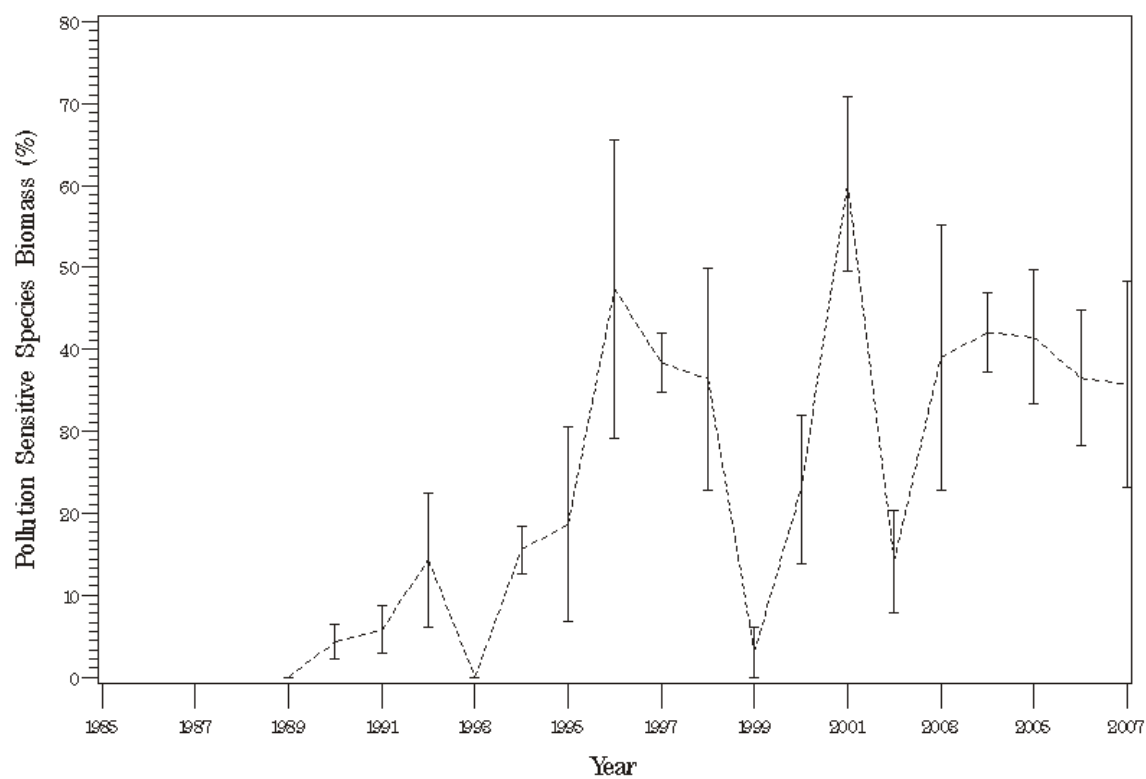


Figure L54. Plot of pollution sensitive species biomass at station SBE5 for 1985 through 2007.

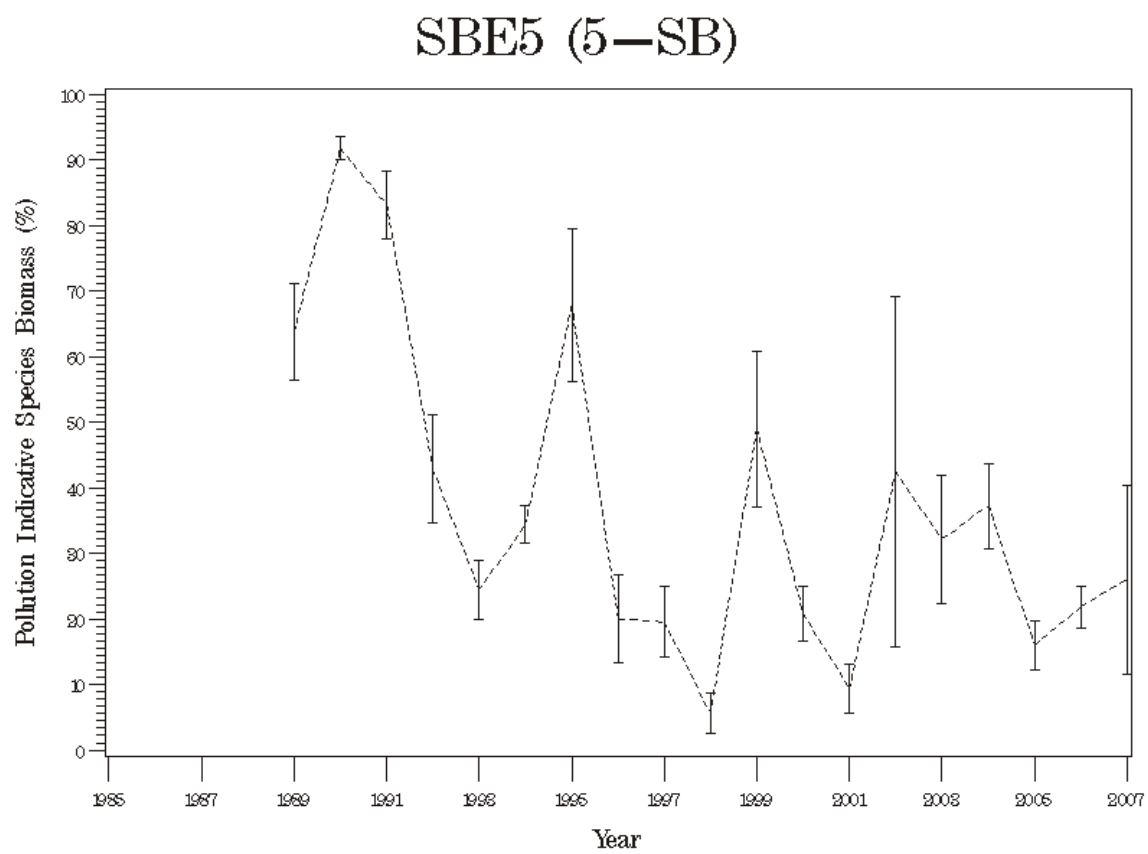


Figure L55. Plot of pollution indicative species biomass at station SBE5 for 1985 through 2007.

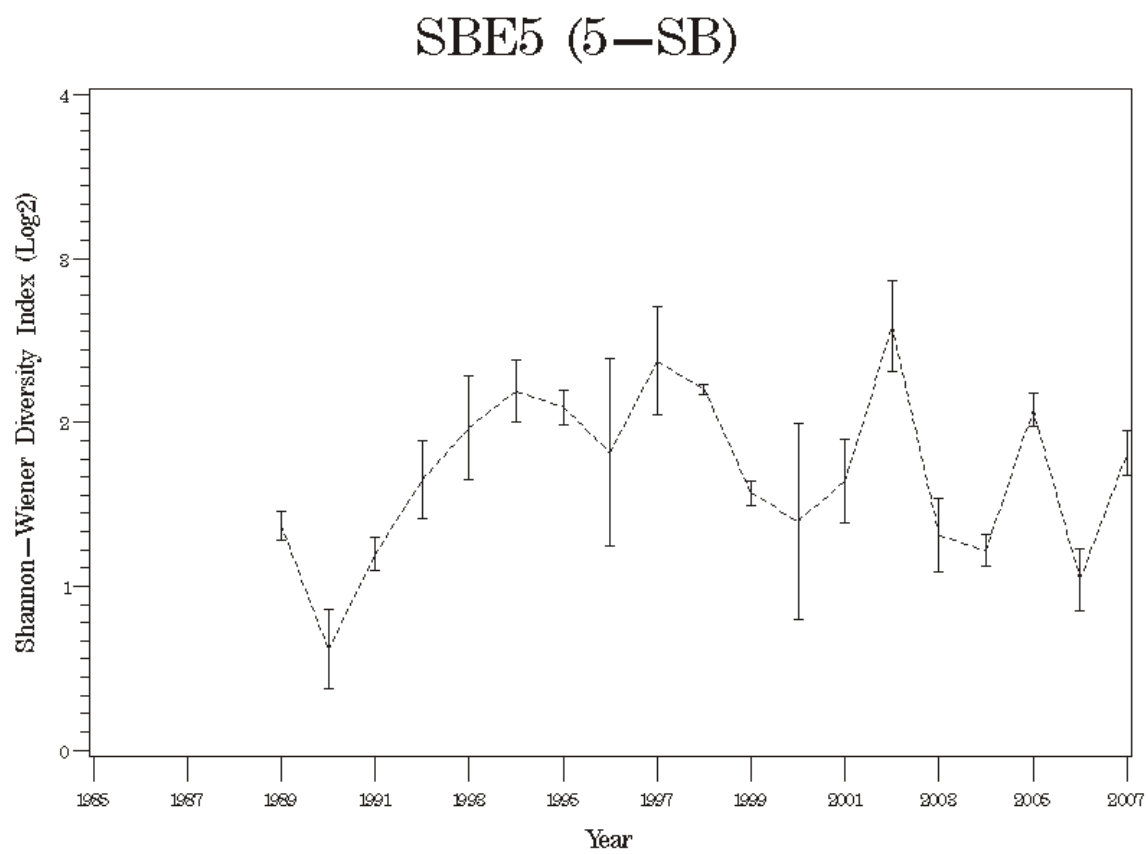


Figure L56. Plot of Shannon-Weiner diversity index at station SBE5 for 1985 through 2007.

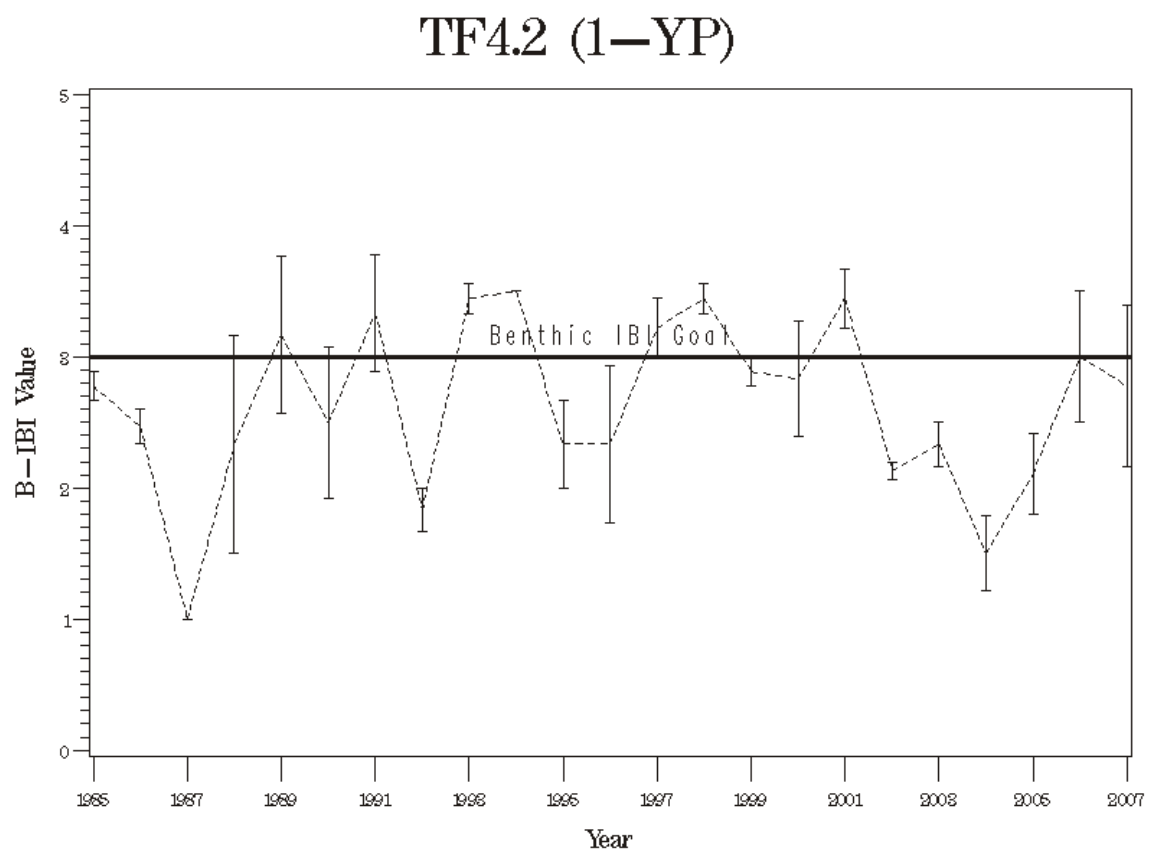


Figure L57. Plot of the benthic IBI against time at station TF4.2 for 1985 through 2007.

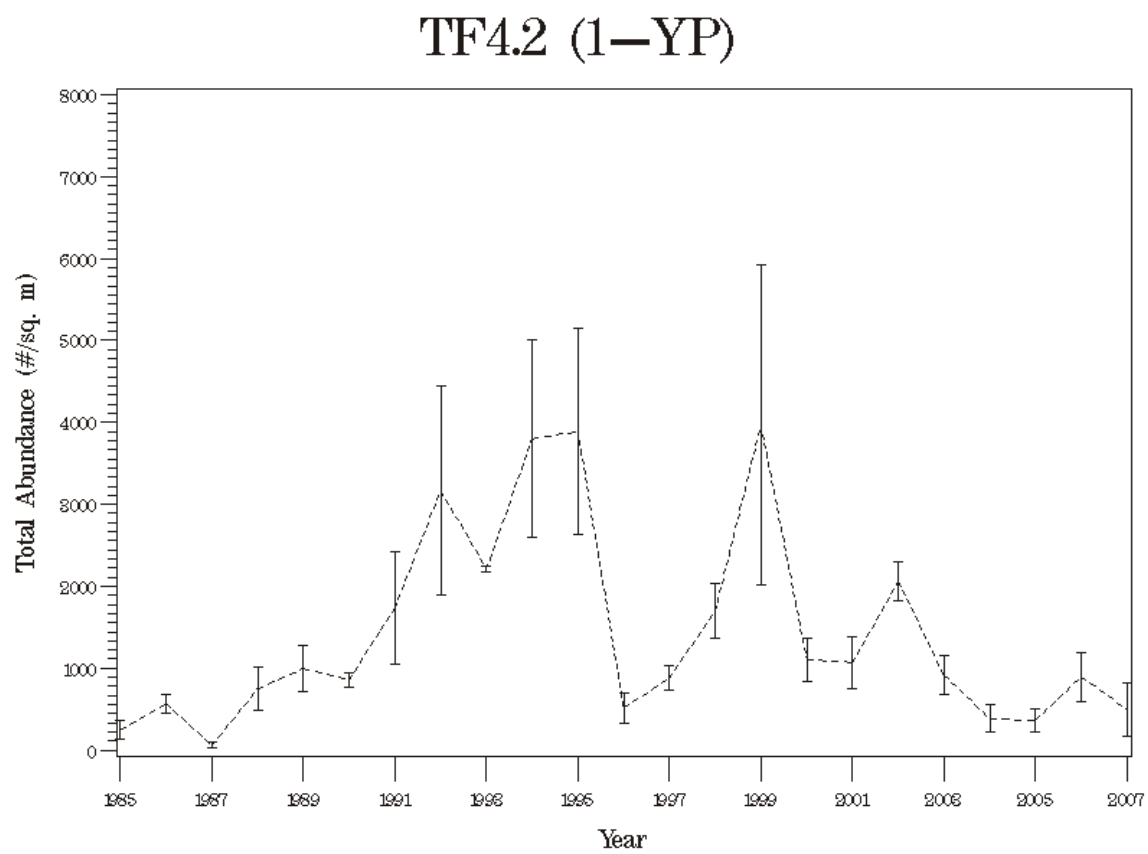


Figure L58. Plot of total benthic community abundance at station TF4.2 for 1985 through 2007.



## TF4.2 (1-YP)

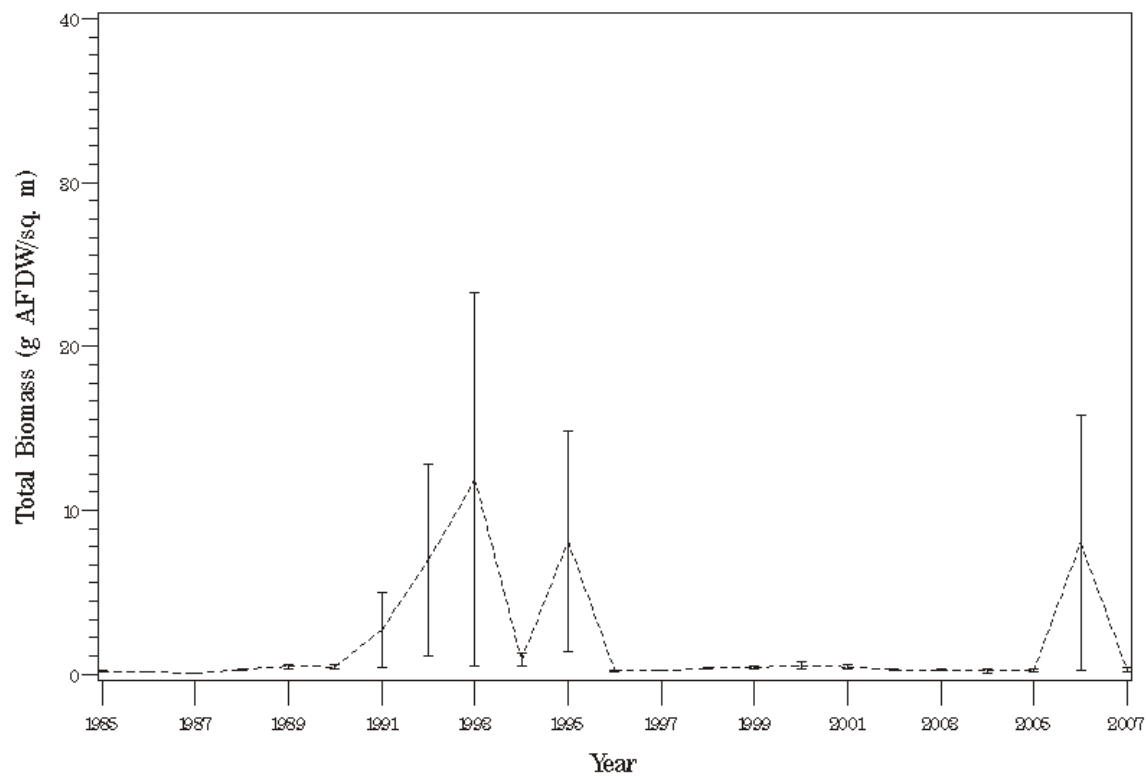


Figure L59. Plot of total benthic community biomass at station TF4.2 for 1985 through 2007.

## TF4.2 (1-YP)

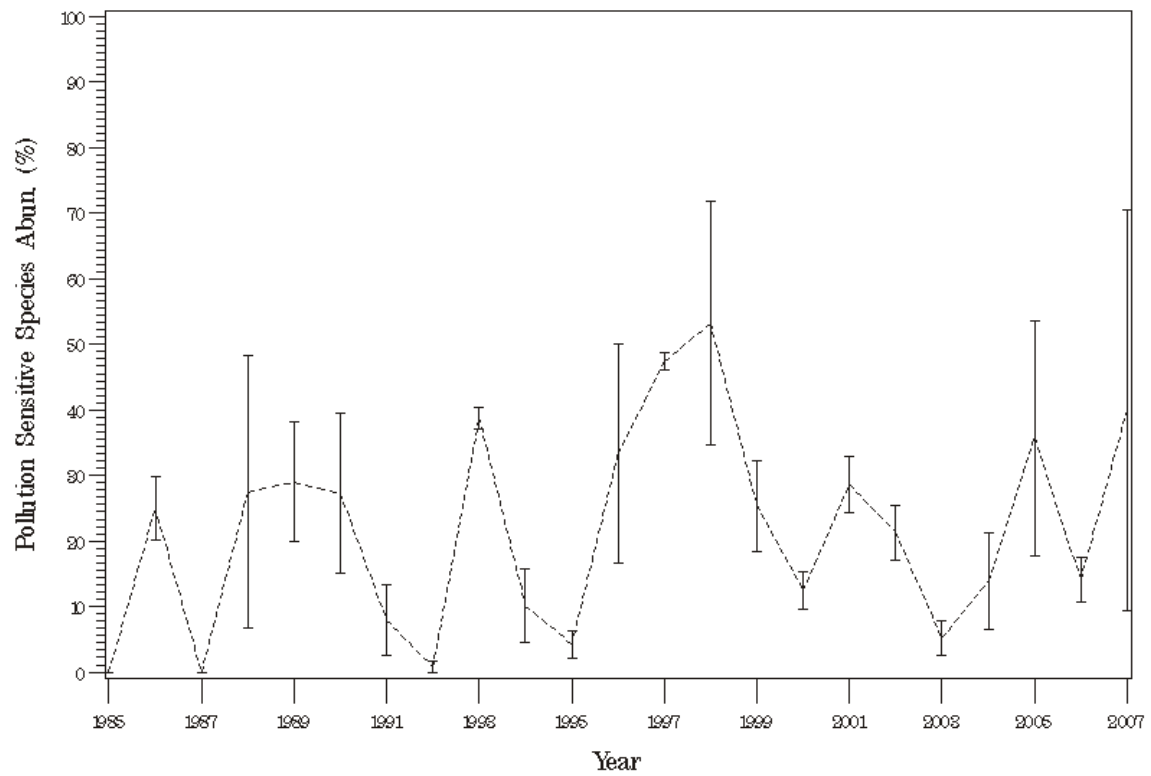


Figure L60. Plot of pollution sensitive species abundance at station TF4.2 for 1985 through 2007.

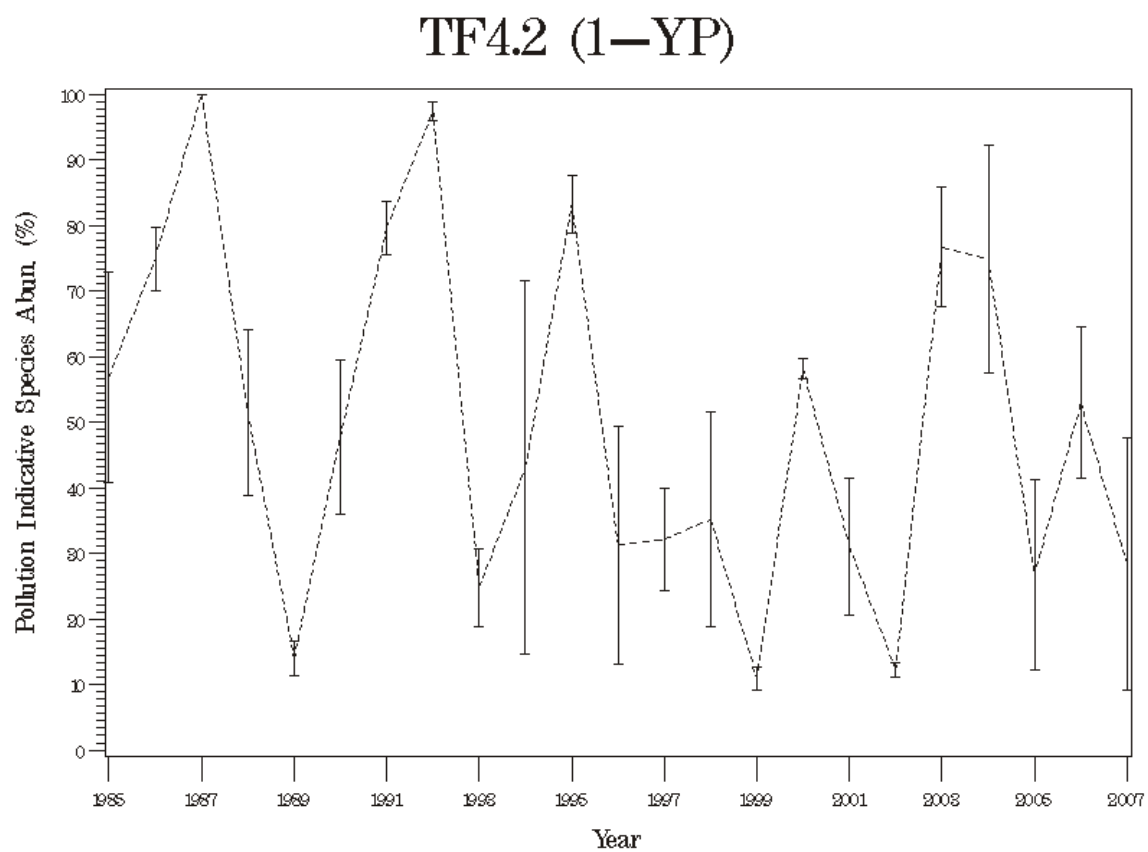


Figure L61. Plot of pollution indicative species abundance at station TF4.2 for 1985 through 2007.

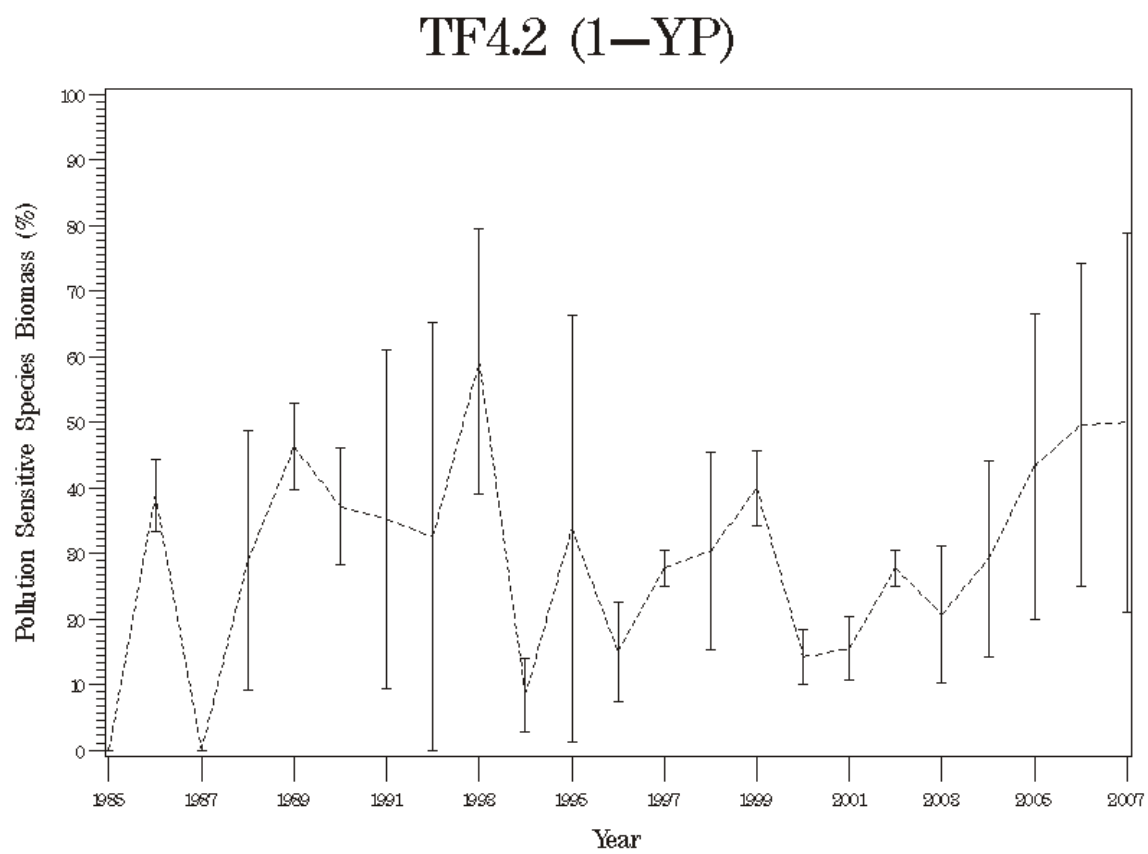


Figure L62. Plot of pollution sensitive species biomass at station TF4.2 for 1985 through 2007.

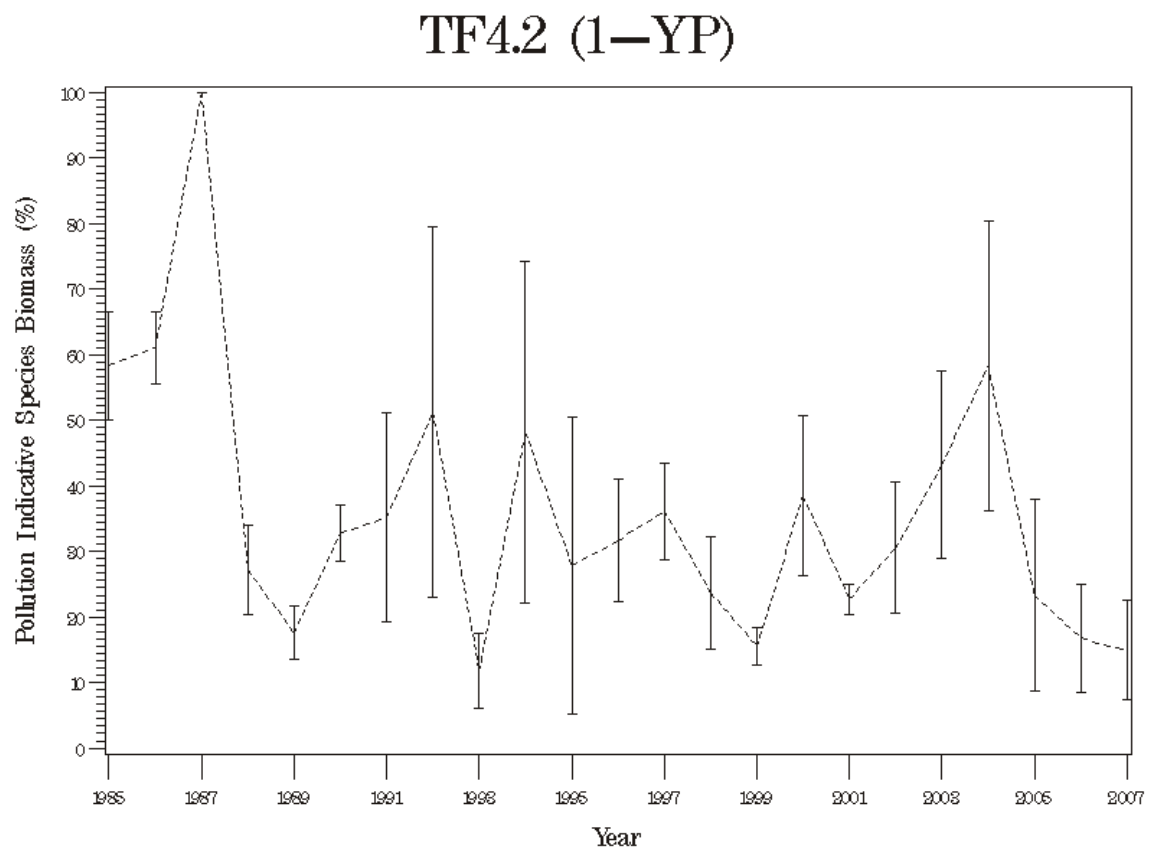


Figure L63. Plot of pollution indicative species biomass at station TF4.2 for 1985 through 2007.

## TF4.2 (1-YP)

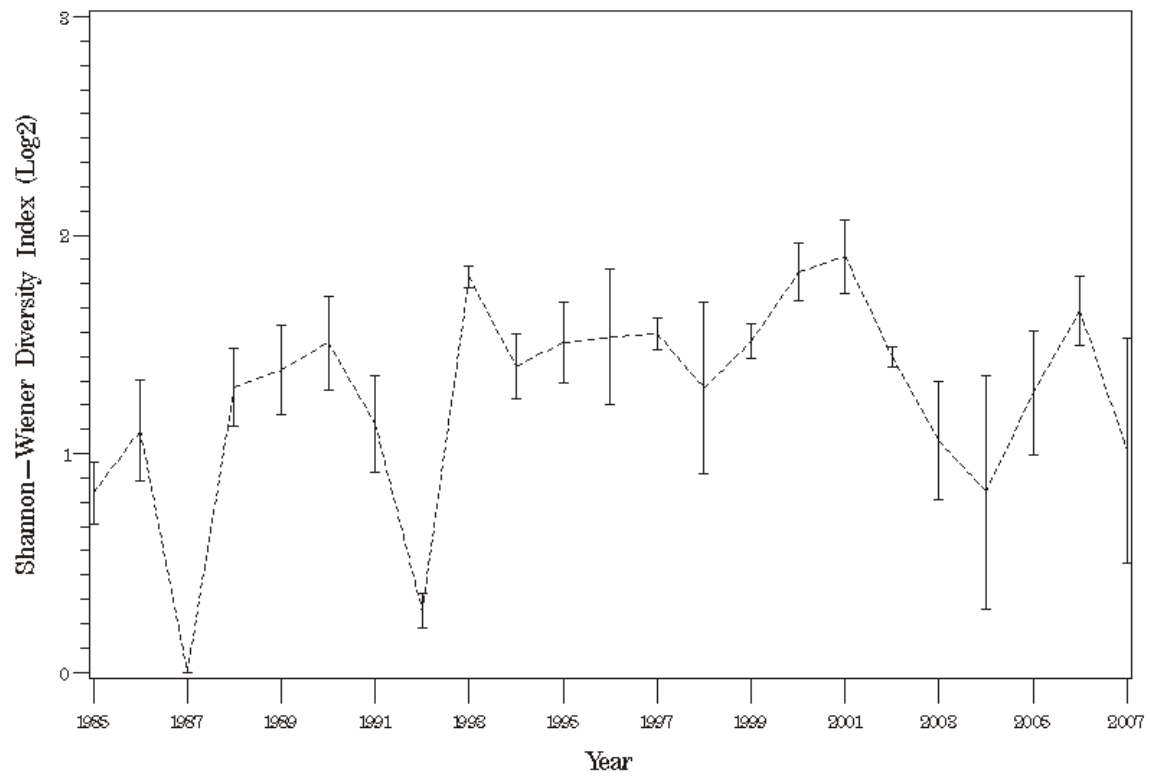


Figure L64. Plot of Shannon-Weiner diversity index at station TF4.2 for 1985 through 2007.

## RET4.3 (2-YP)

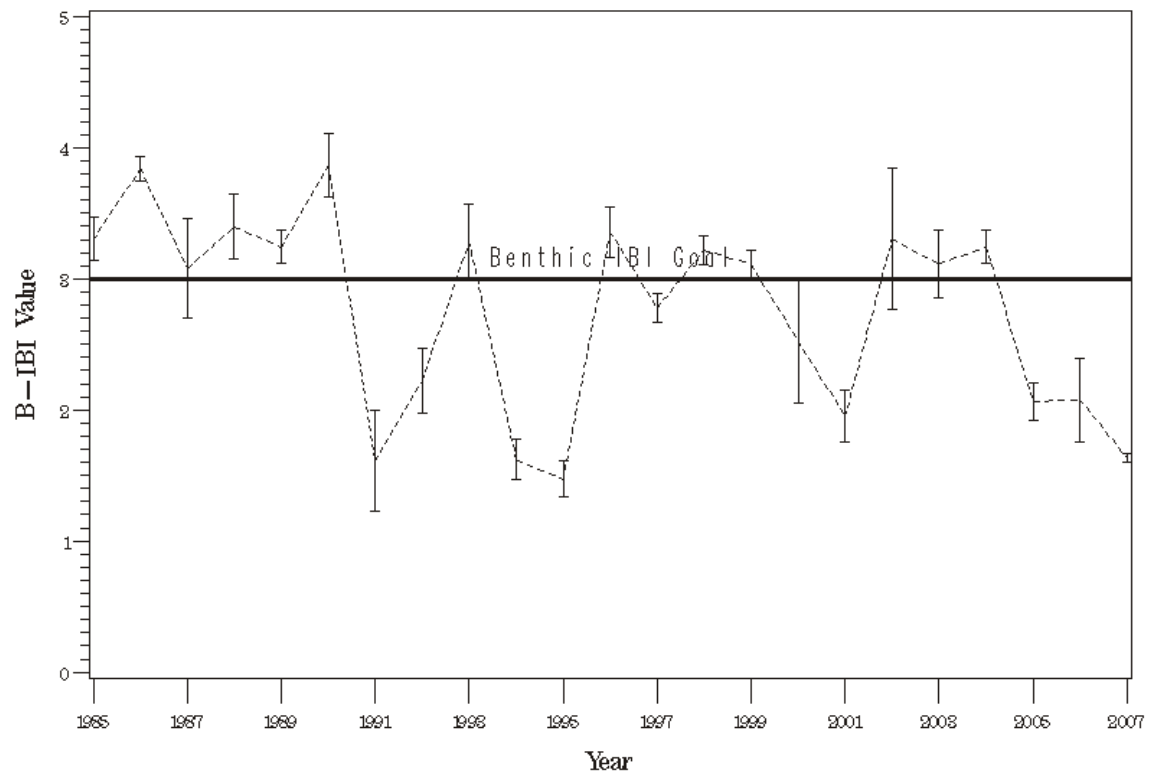


Figure L65. Plot of the benthic IBI against time at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

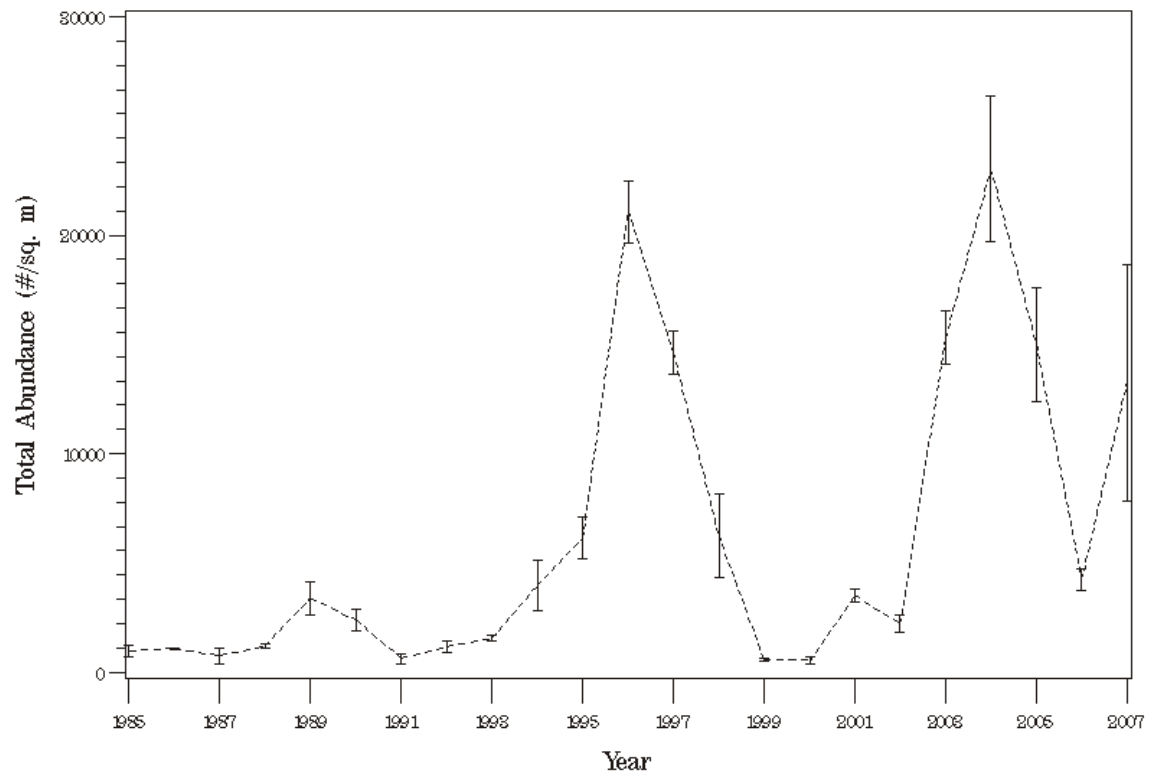


Figure L66. Plot of total benthic community abundance at station RET4.3 for 1985 through 2007.



## RET4.3 (2-YP)

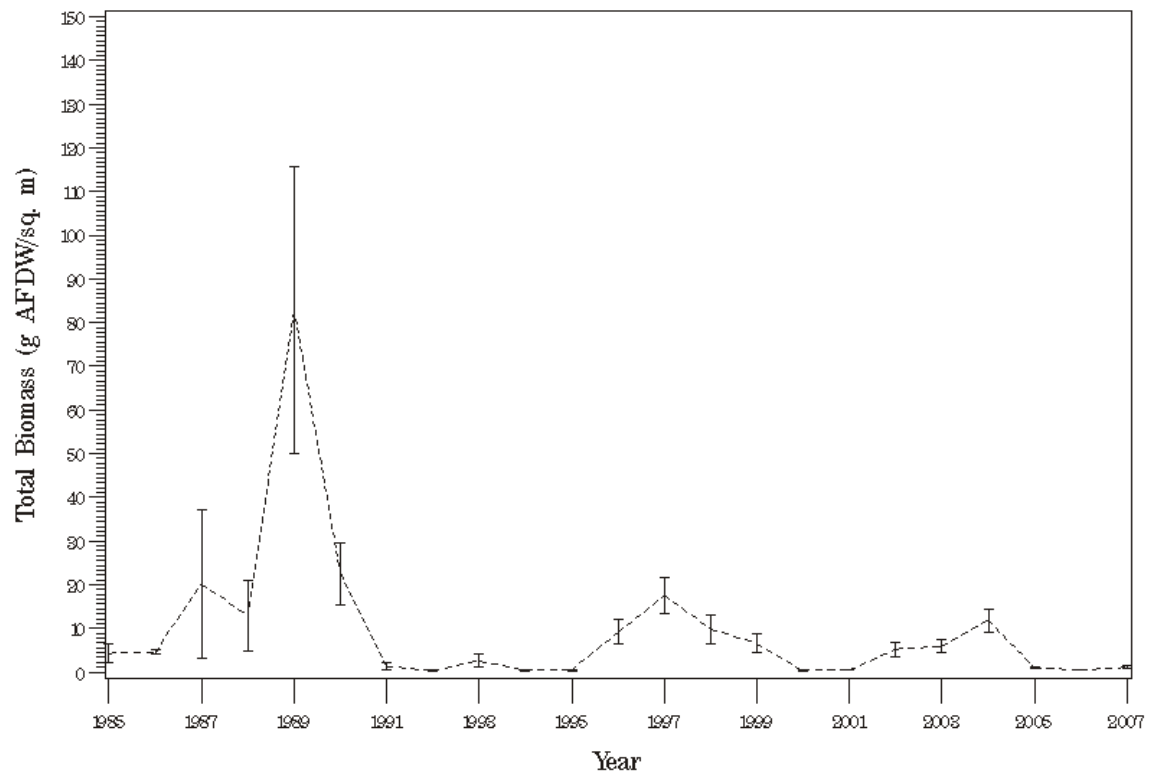


Figure L67. Plot of total benthic community biomass at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

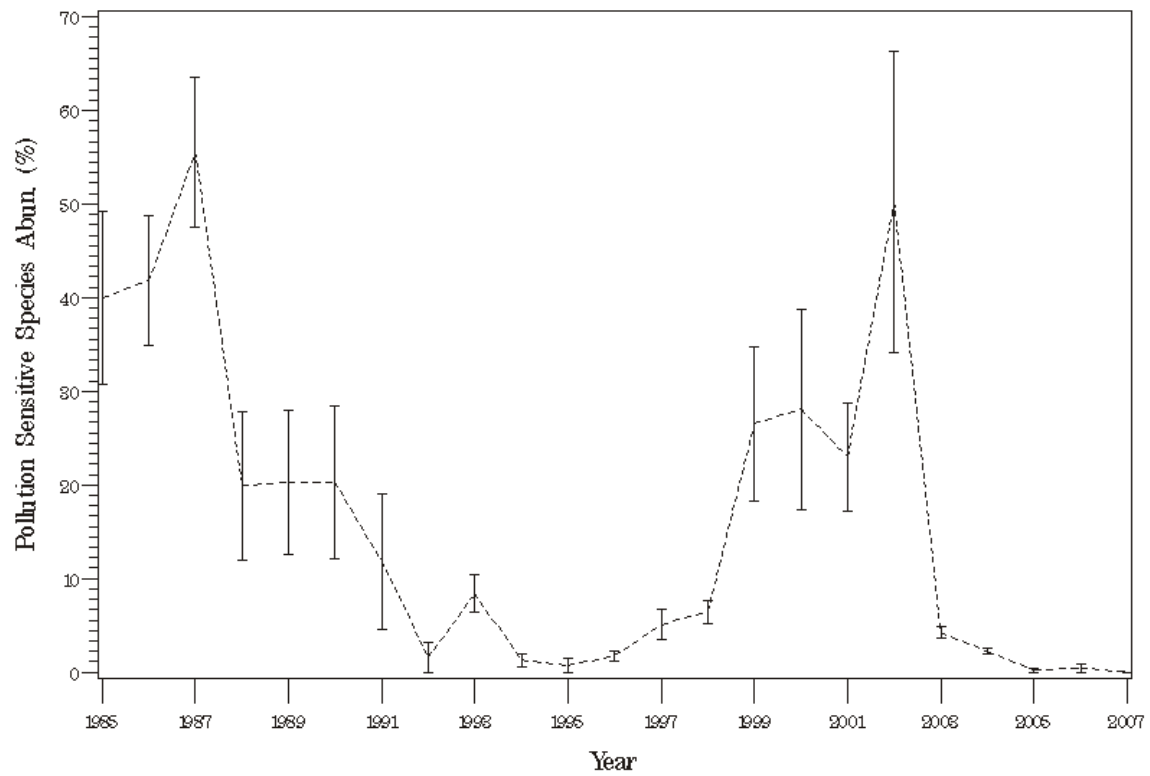


Figure L68. Plot of pollution sensitive species abundance at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

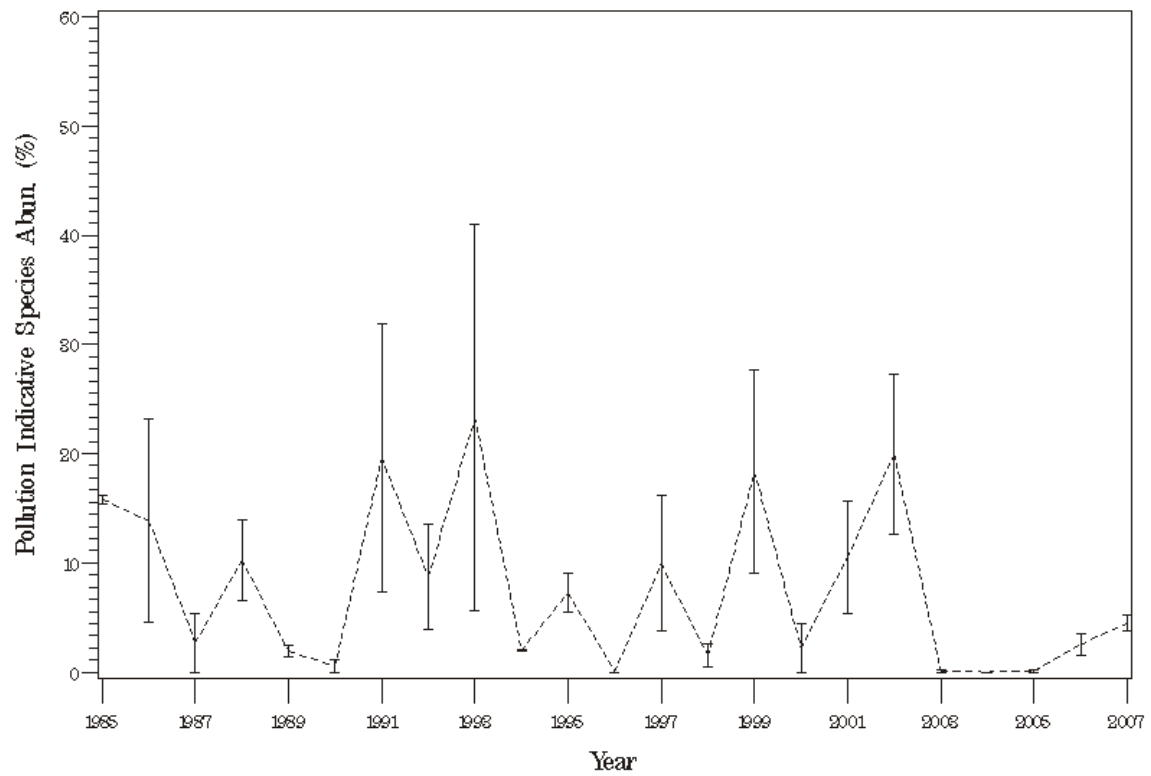


Figure L69. Plot of pollution indicative species abundance at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

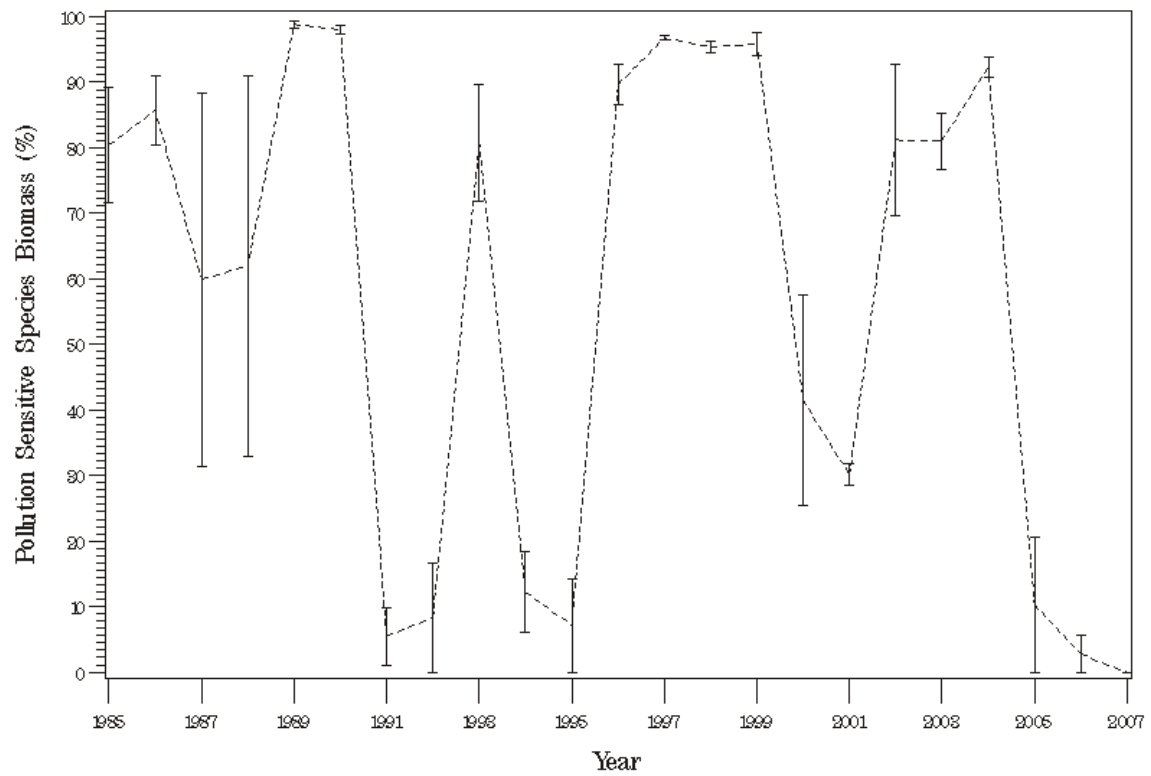


Figure L70. Plot of pollution sensitive species biomass at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

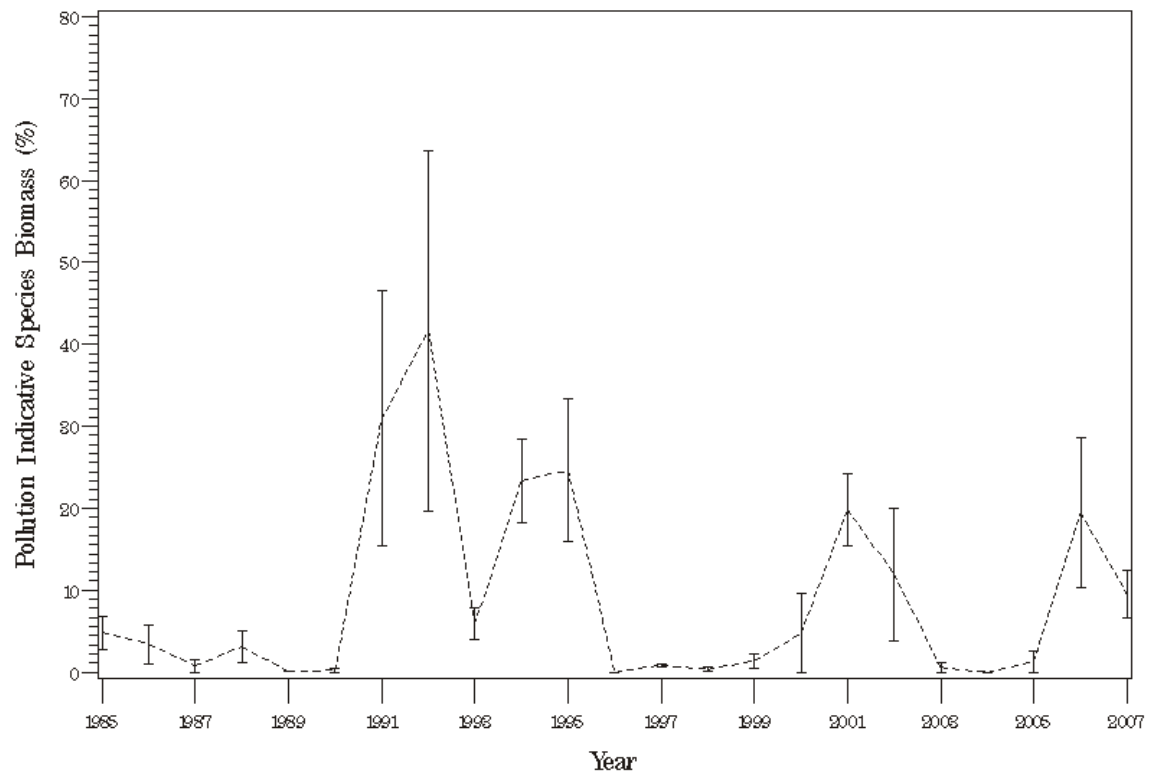


Figure L71. Plot of pollution indicative species biomass at station RET4.3 for 1985 through 2007.

## RET4.3 (2-YP)

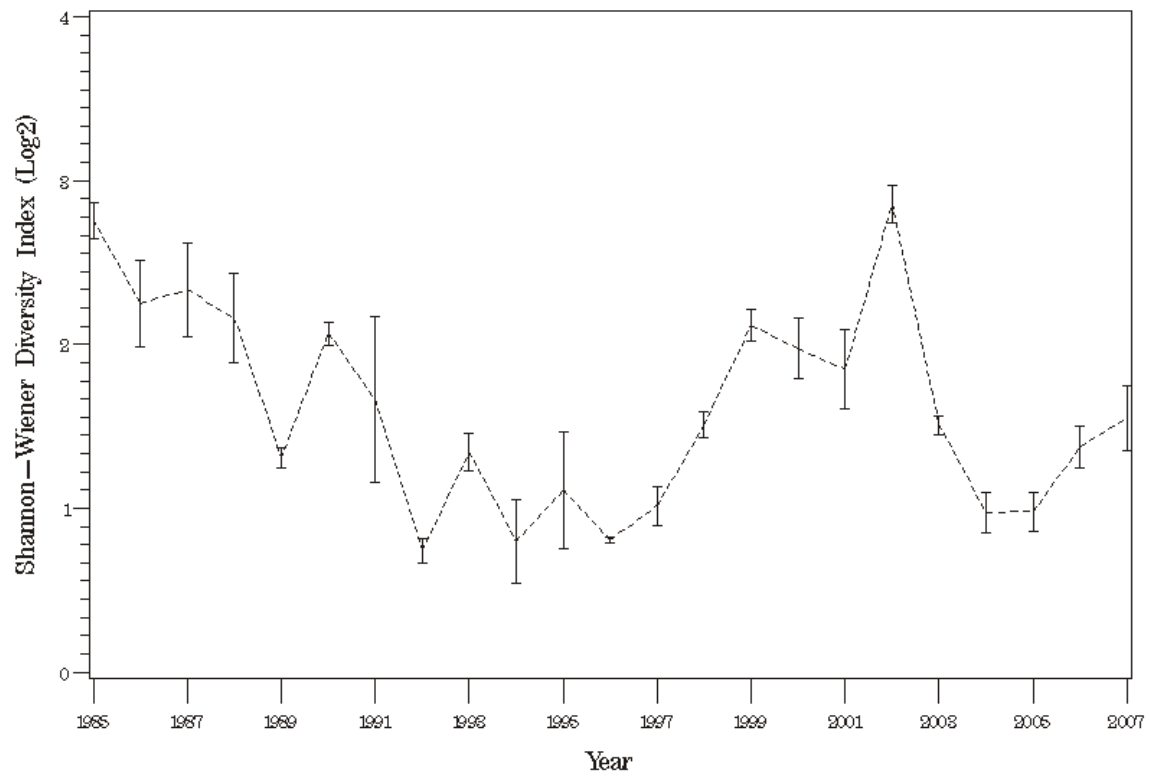


Figure L72. Plot of Shannon-Weiner diversity index at station RET4.3 for 1985 through 2007.

## LE4.1 (3-YP)

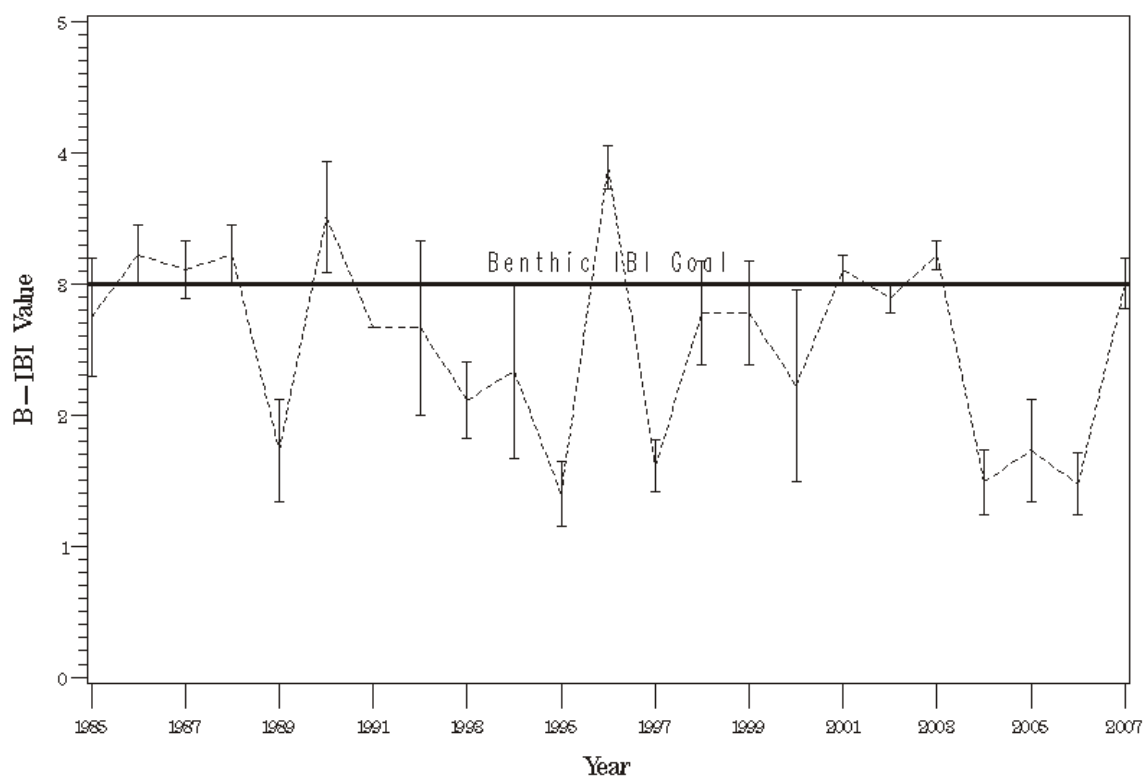


Figure L73. Plot of the benthic IBI against time at station LE4.1 for 1985 through 2007.

## LE4.1 (3-YP)

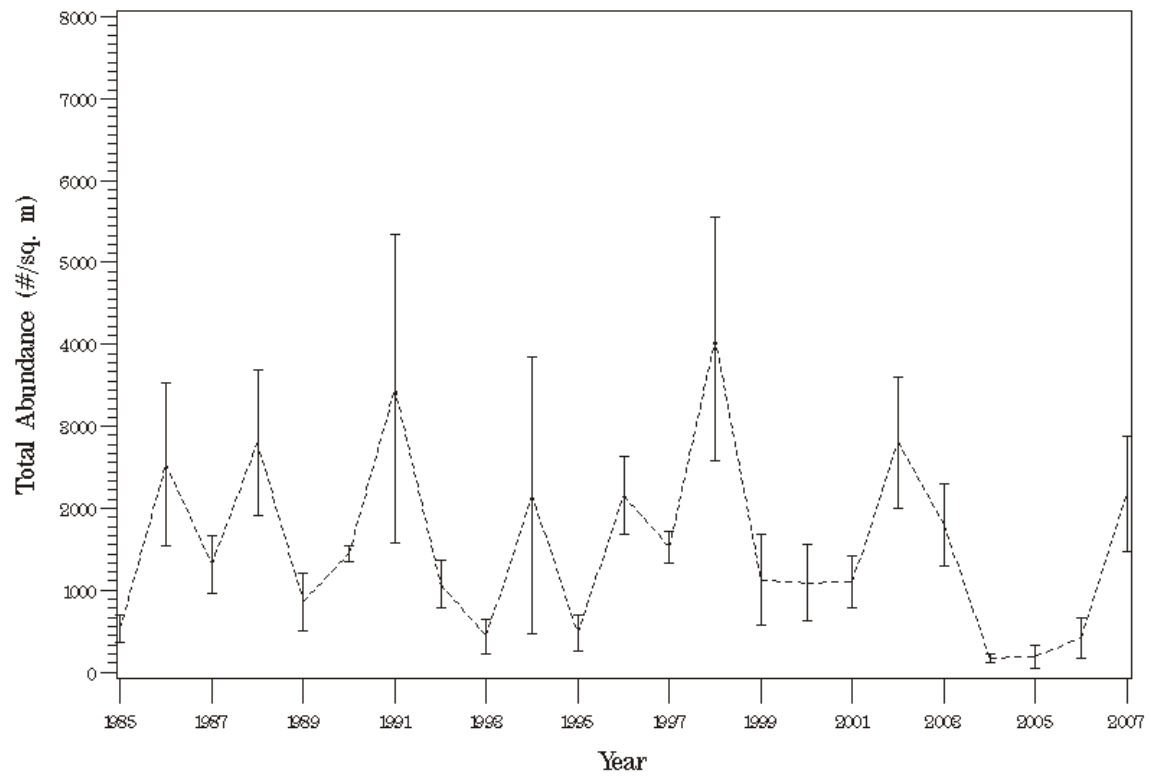


Figure L74. Plot of total benthic community abundance at station LE4.1 for 1985 through 2007.



## LE4.1 (3-YP)

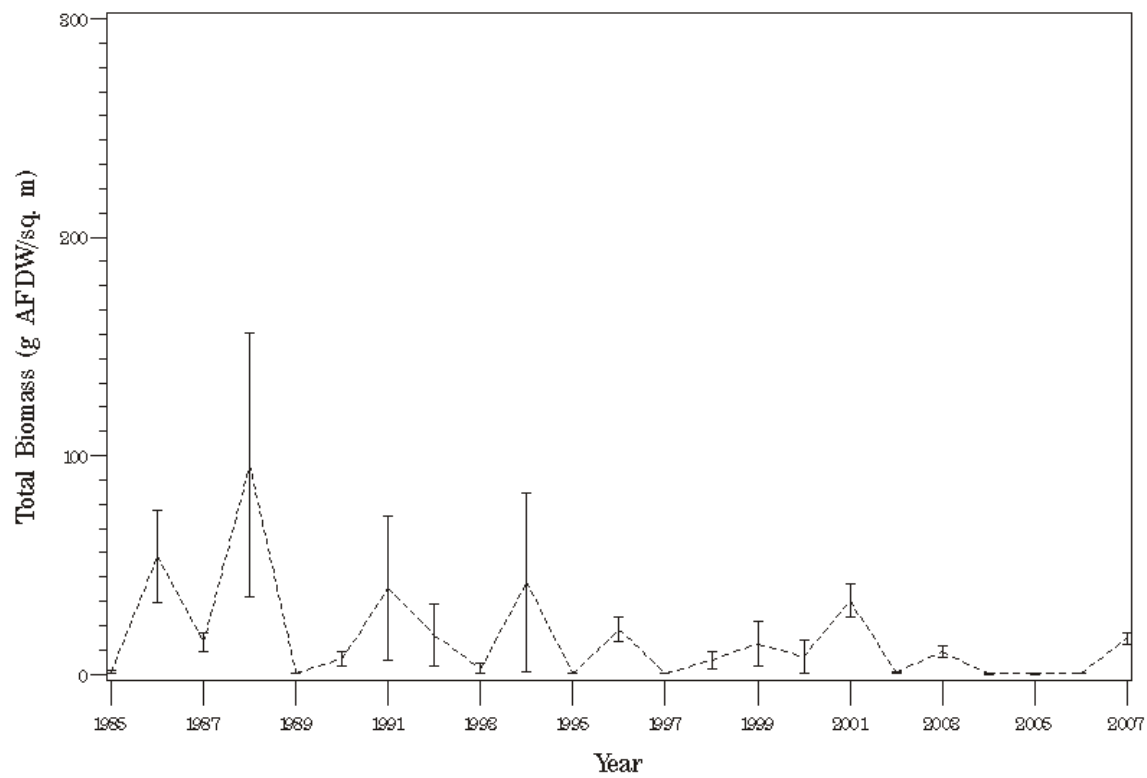


Figure L75. Plot of total benthic community biomass at station LE4.1 for 1985 through 2007.

## LE4.1 (3-YP)

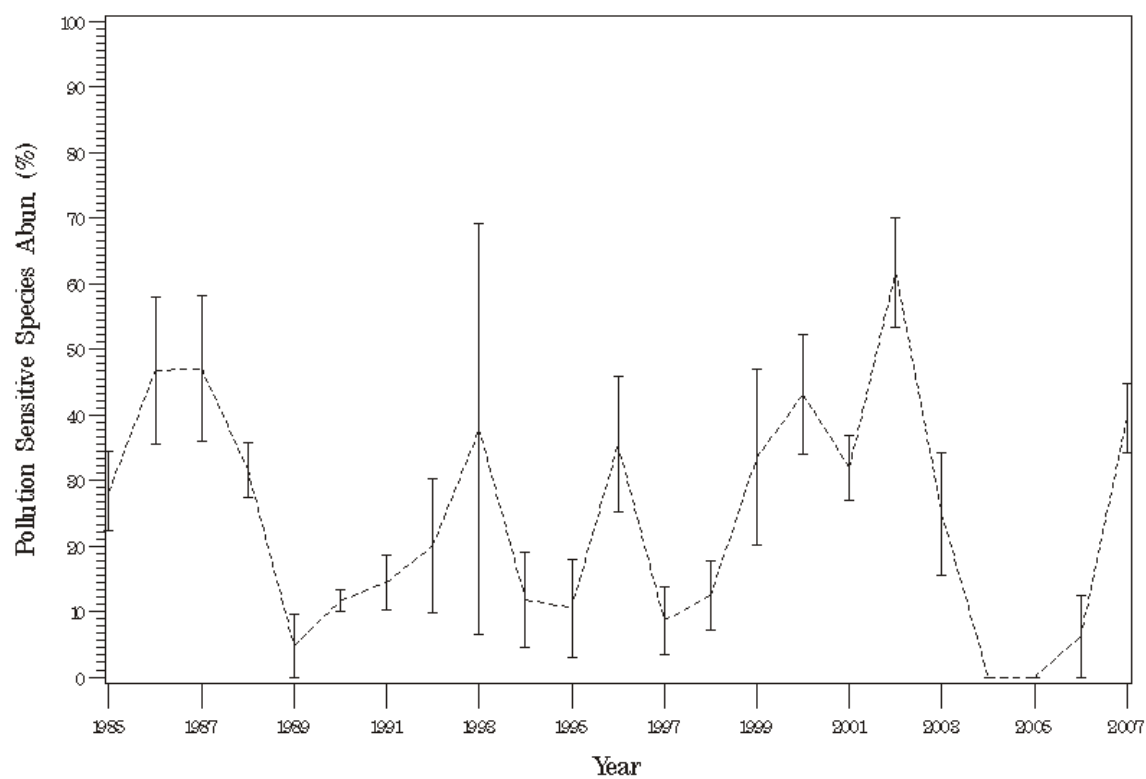


Figure L76. Plot of pollution sensitive species abundance at station LE4.1 for 1985 through 2007.

## LE4.1 (3-YP)

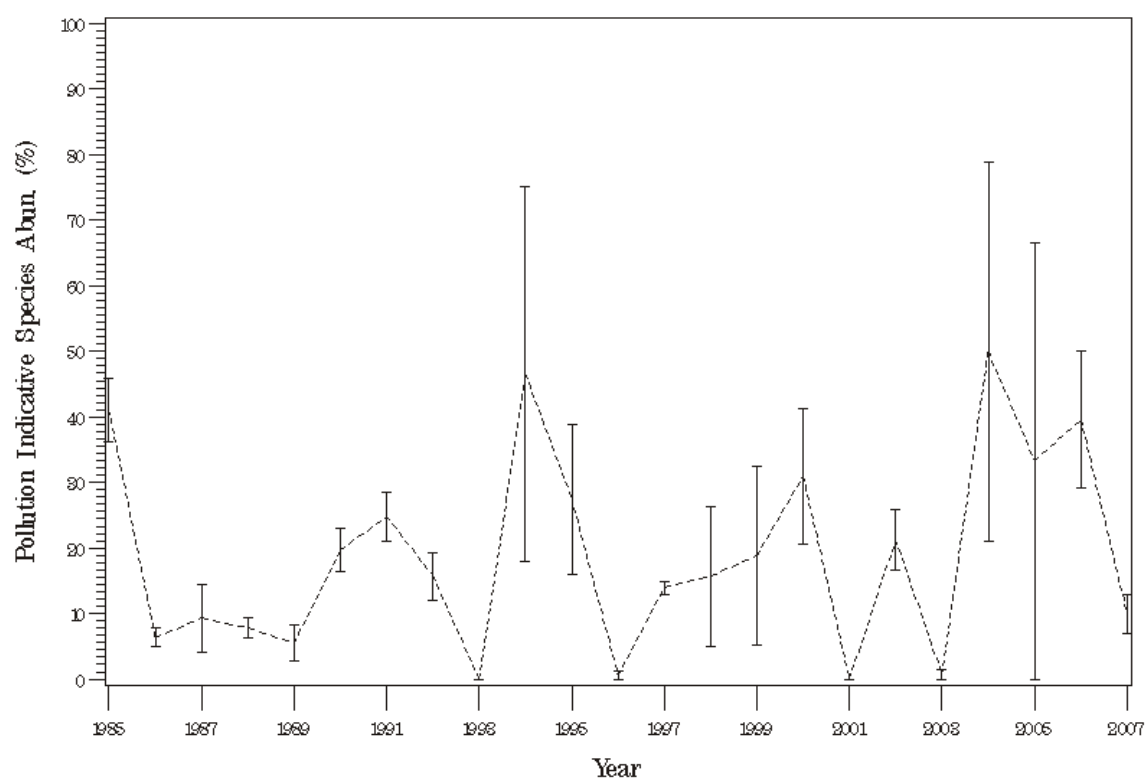


Figure L77. Plot of pollution indicative species abundance at station LE4.1 for 1985 through 2007.

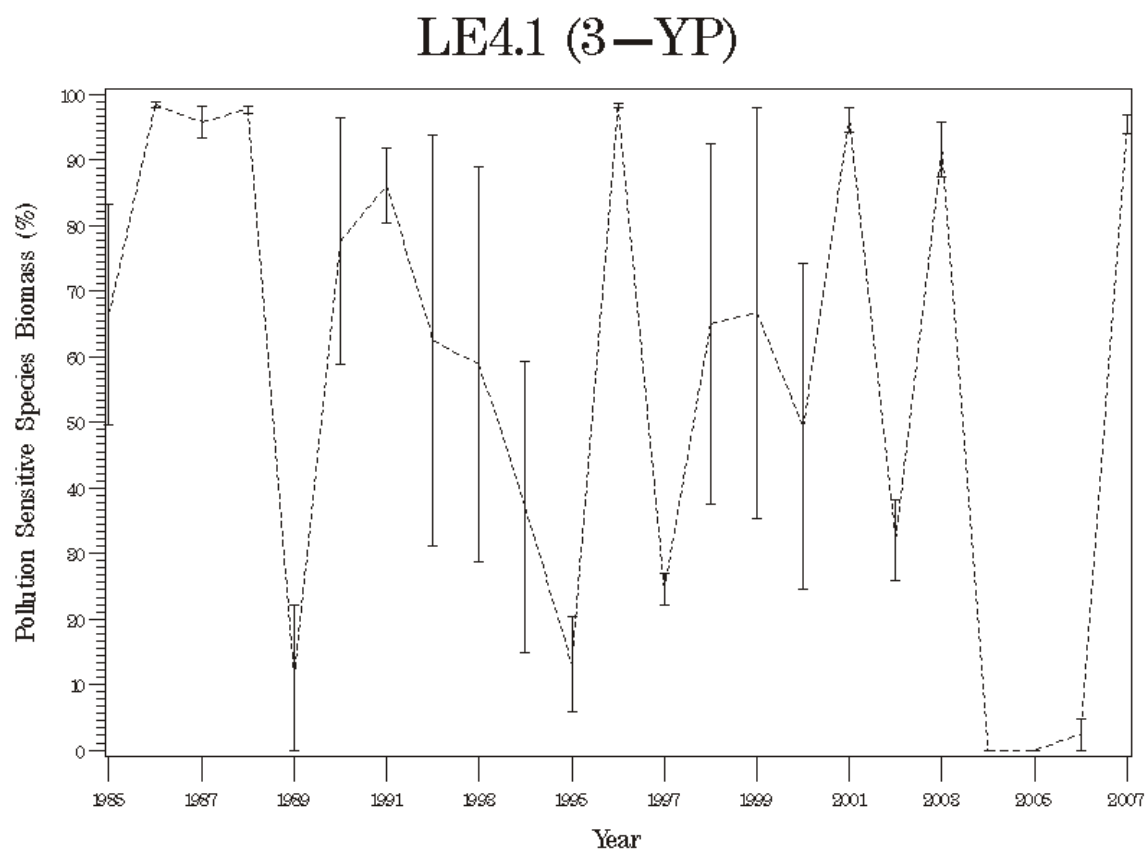


Figure L78. Plot of pollution sensitive species biomass at station LE4.1 for 1985 through 2007.

## LE4.1 (3-YP)

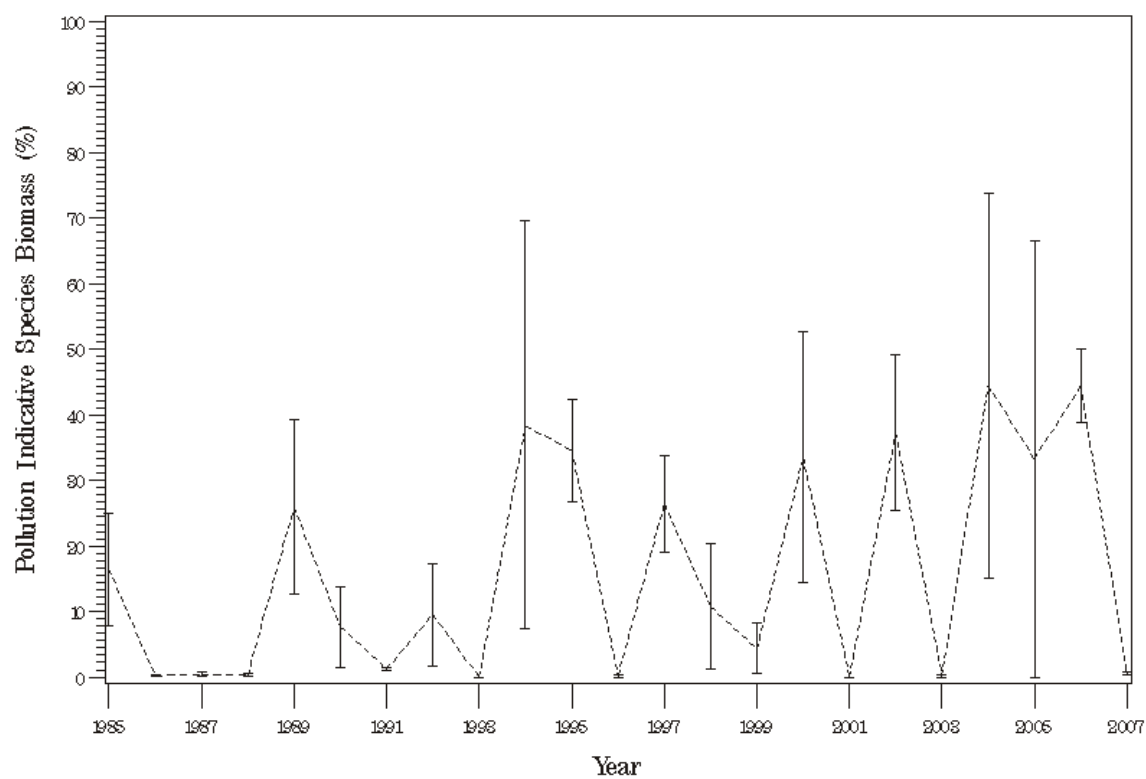


Figure L79. Plot of pollution indicative species biomass at station LE4.1 for 1985 through 2007.

## LE4.1 (3-YP)

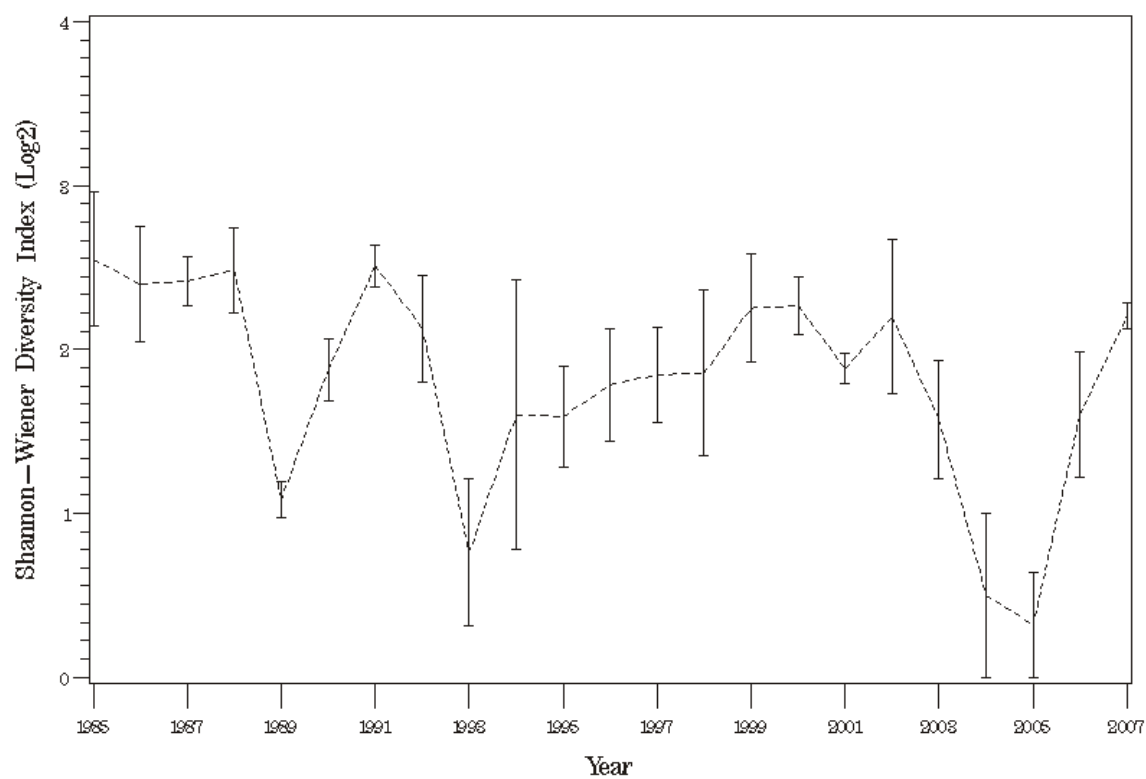


Figure L80. Plot of Shannon-Weiner diversity index at station LE4.1 for 1985 through 2007.

## LE4.3 (4-YP)

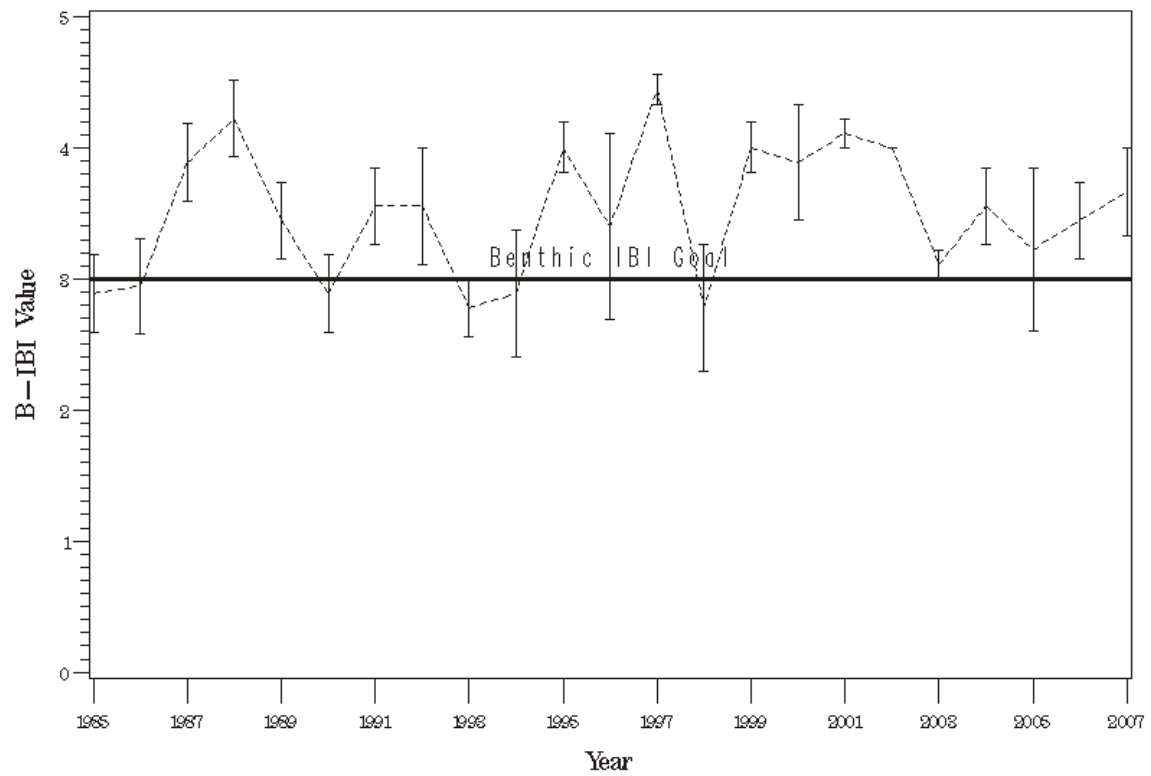


Figure L81. Plot of the benthic IBI against time at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

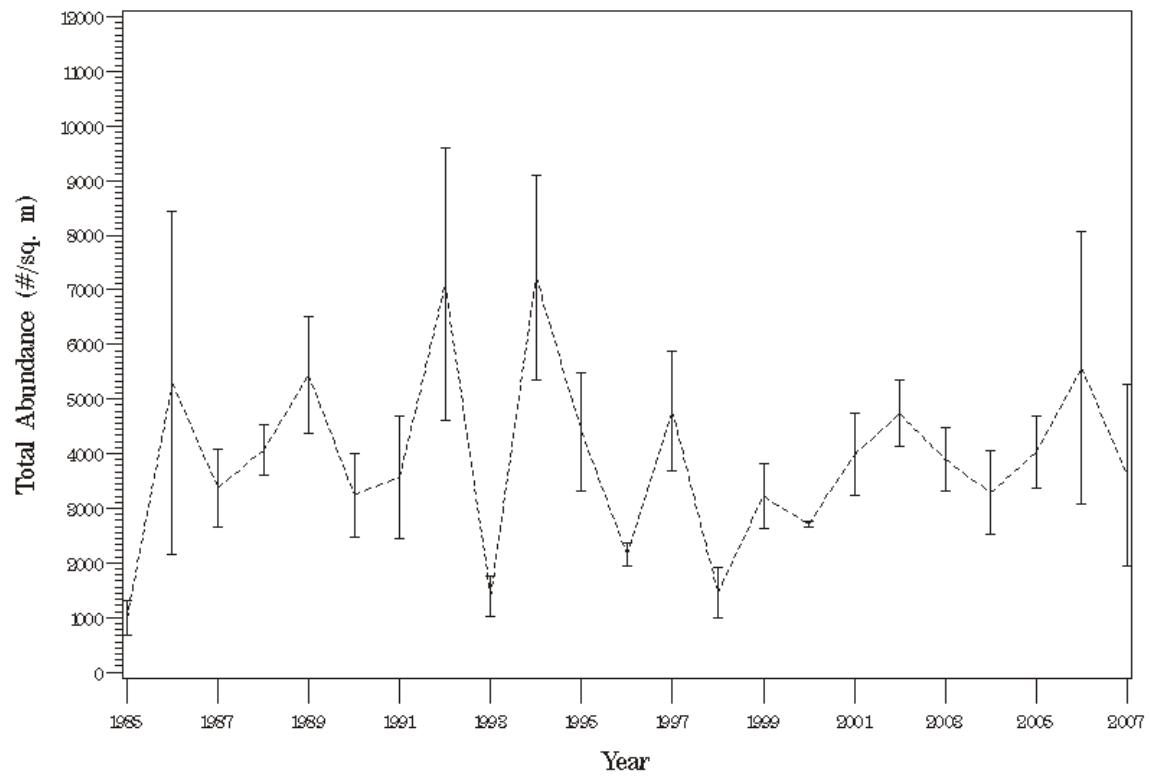


Figure L82. Plot of total benthic community abundance at station LE4.3 for 1985 through 2007.



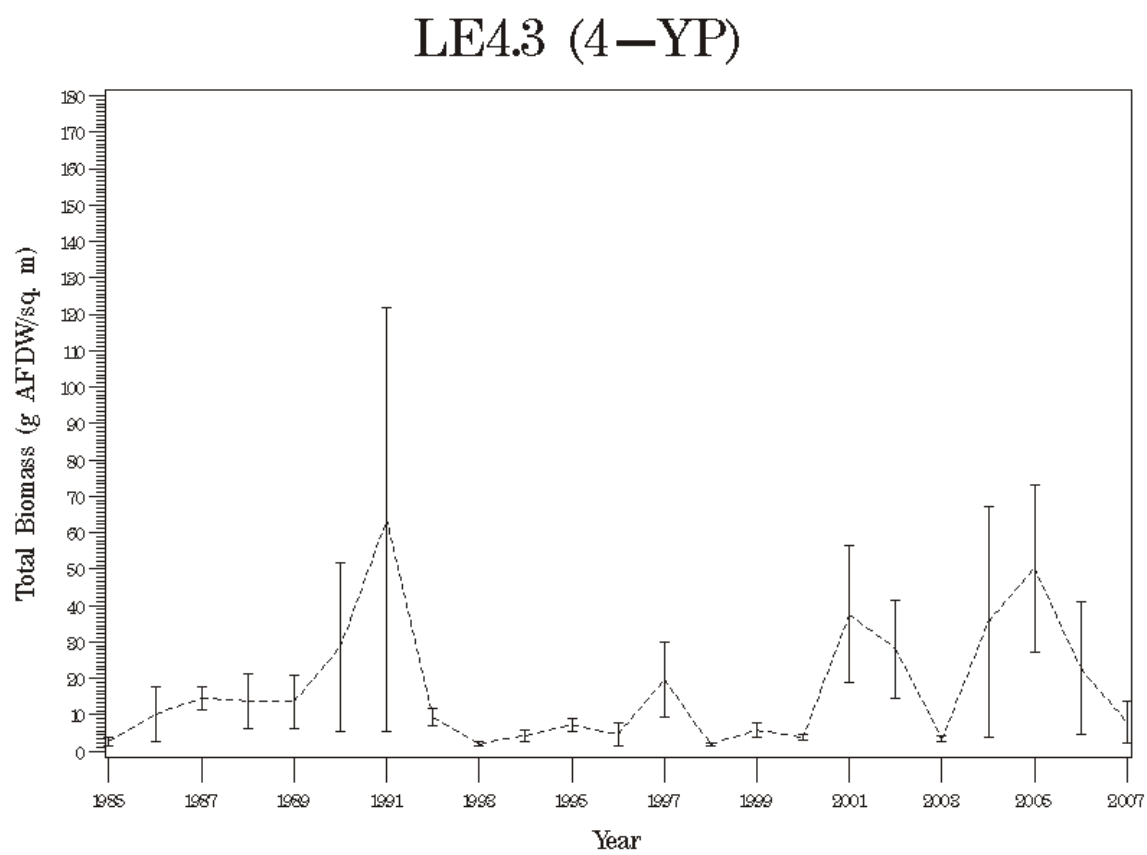


Figure L83. Plot of total benthic community biomass at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

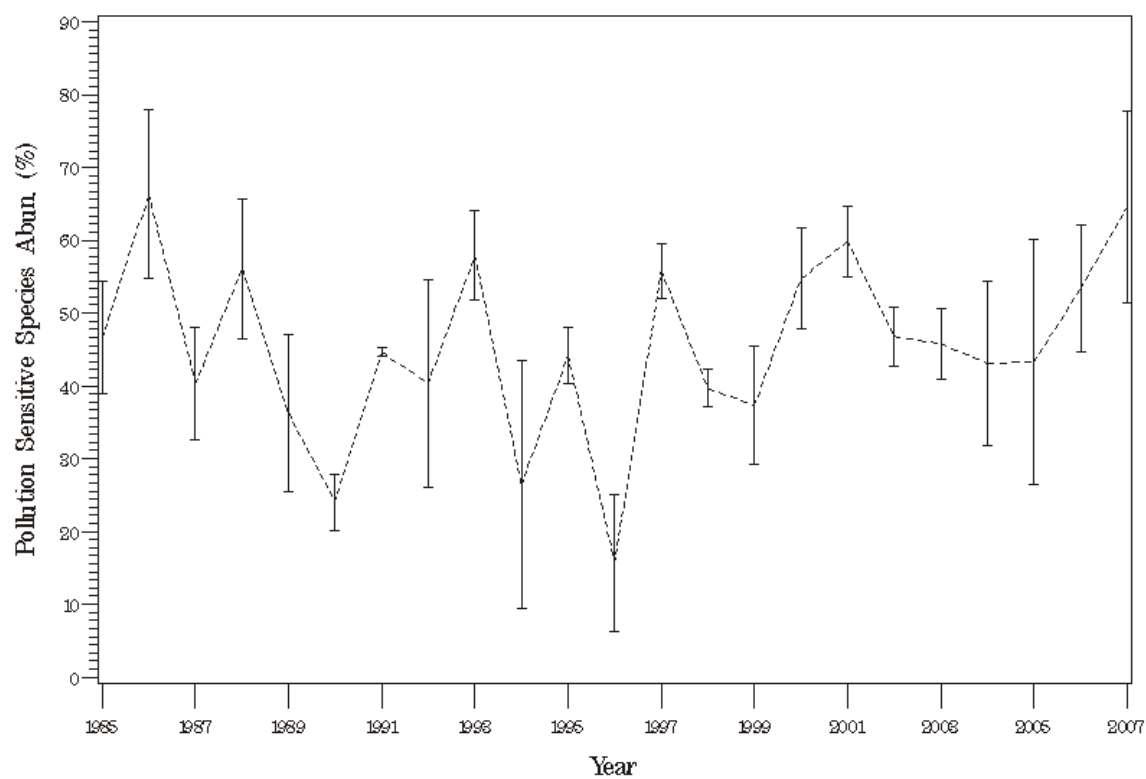


Figure L84. Plot of pollution sensitive species abundance at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

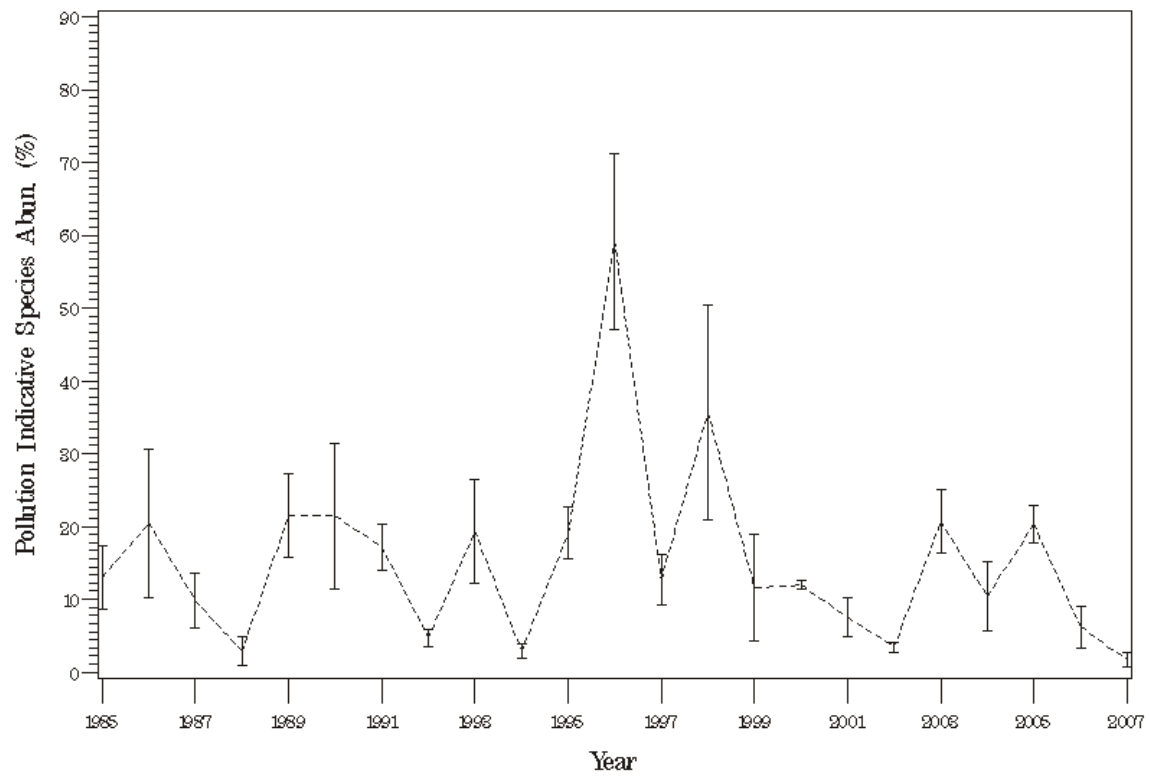


Figure L85. Plot of pollution indicative species abundance at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

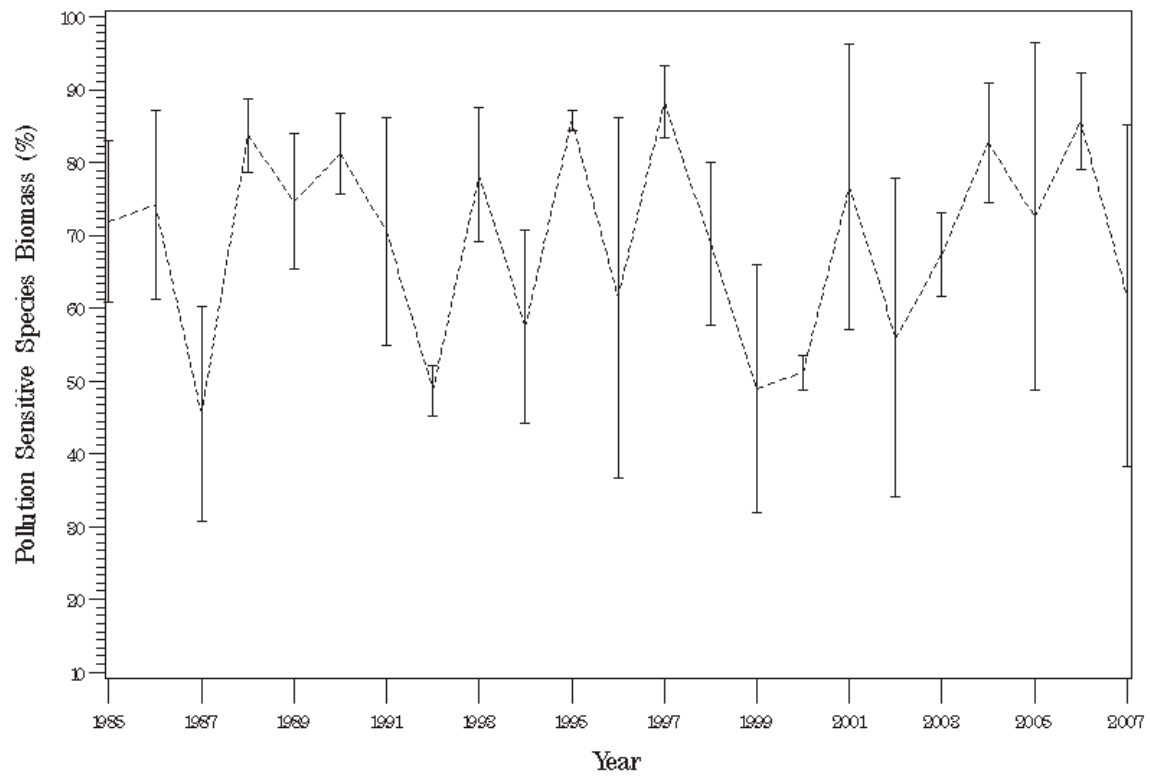


Figure L86. Plot of pollution sensitive species biomass at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

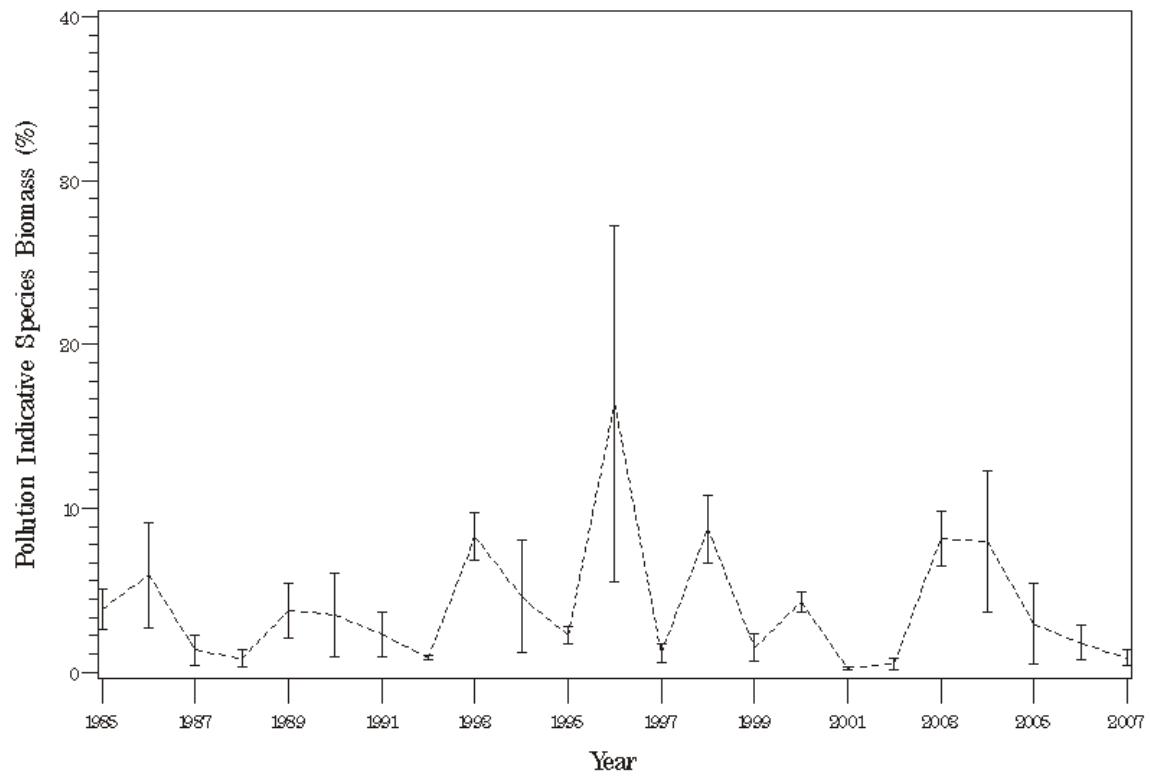


Figure L87. Plot of pollution indicative species biomass at station LE4.3 for 1985 through 2007.

## LE4.3 (4-YP)

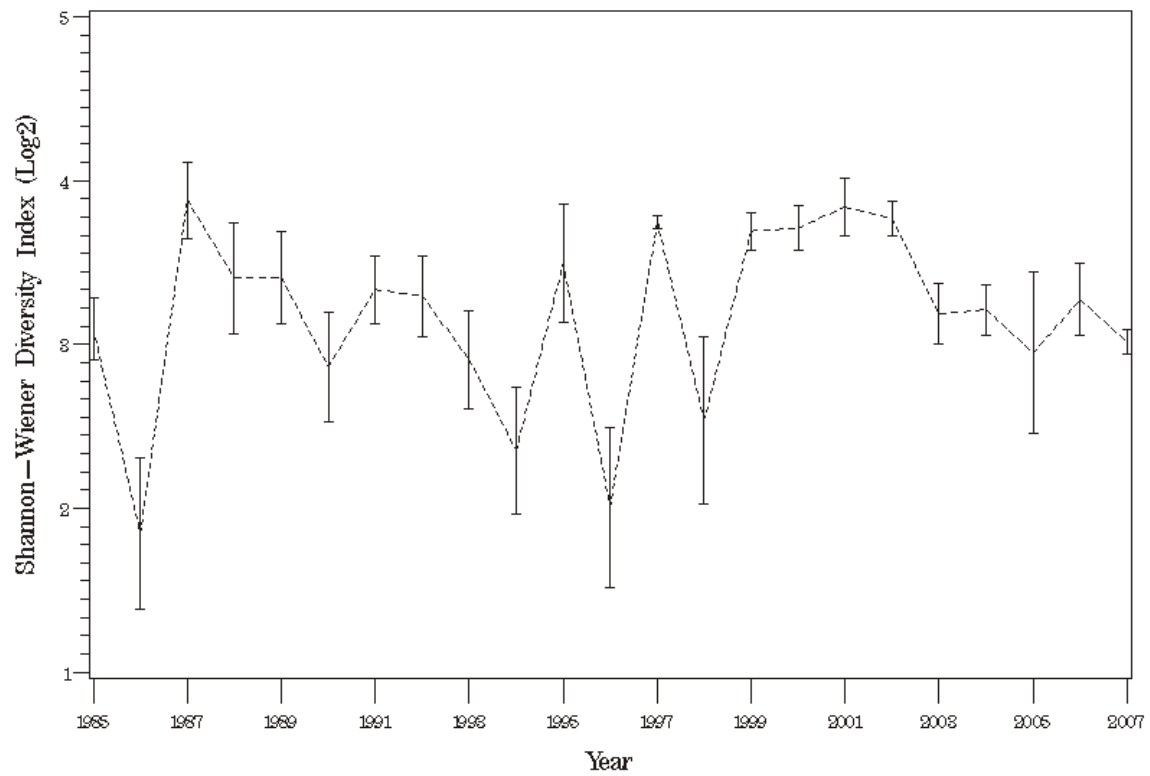


Figure L88. Plot of Shannon-Weiner diversity index at station LE4.3 for 1985 through 2007.

## LE4.3B (5-YP)

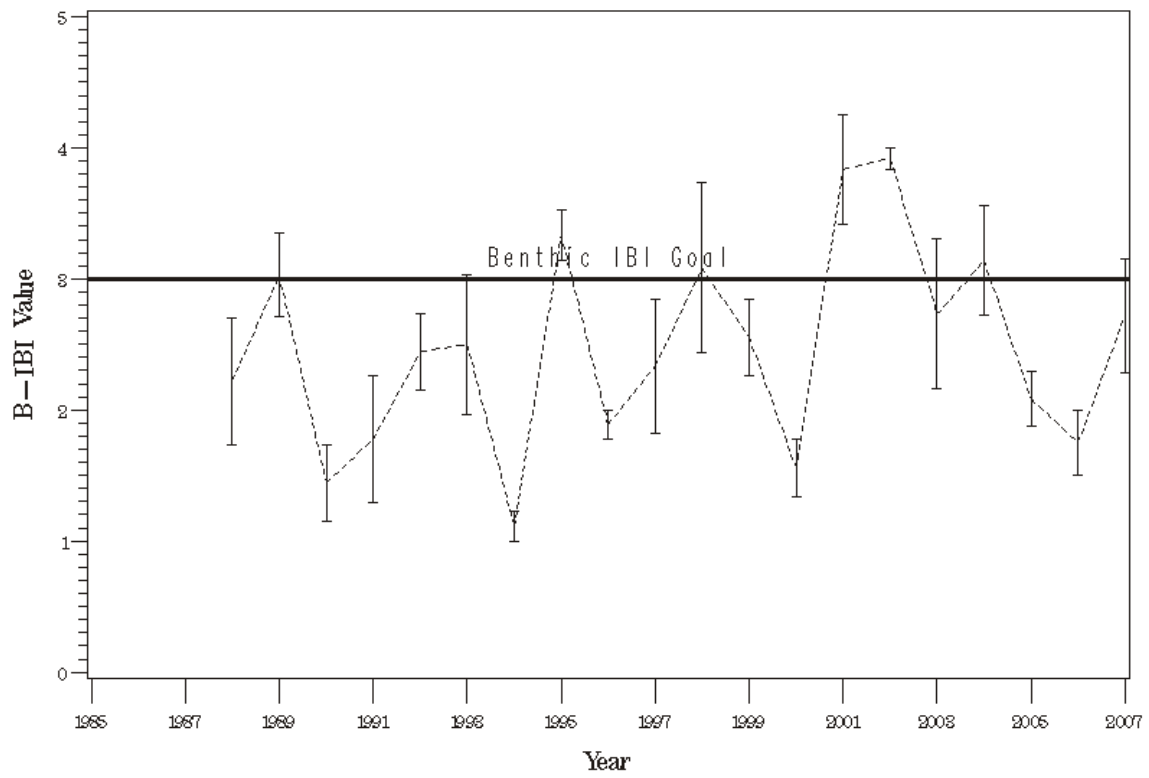


Figure L89. Plot of the benthic IBI against time at station LE4.3B for 1985 through 2007.

## LE4.3B (5-YP)

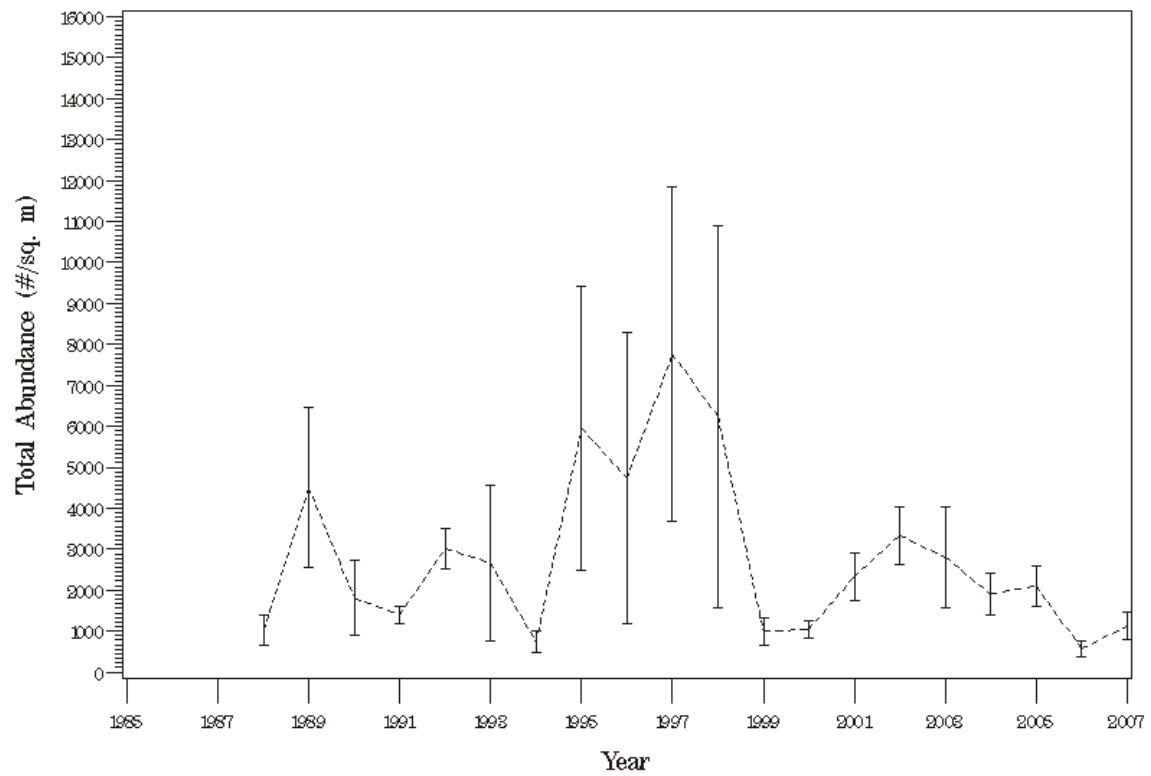


Figure L90. Plot of total benthic community abundance at station LE4.3B for 1985 through 2007.



## LE4.3B (5-YP)

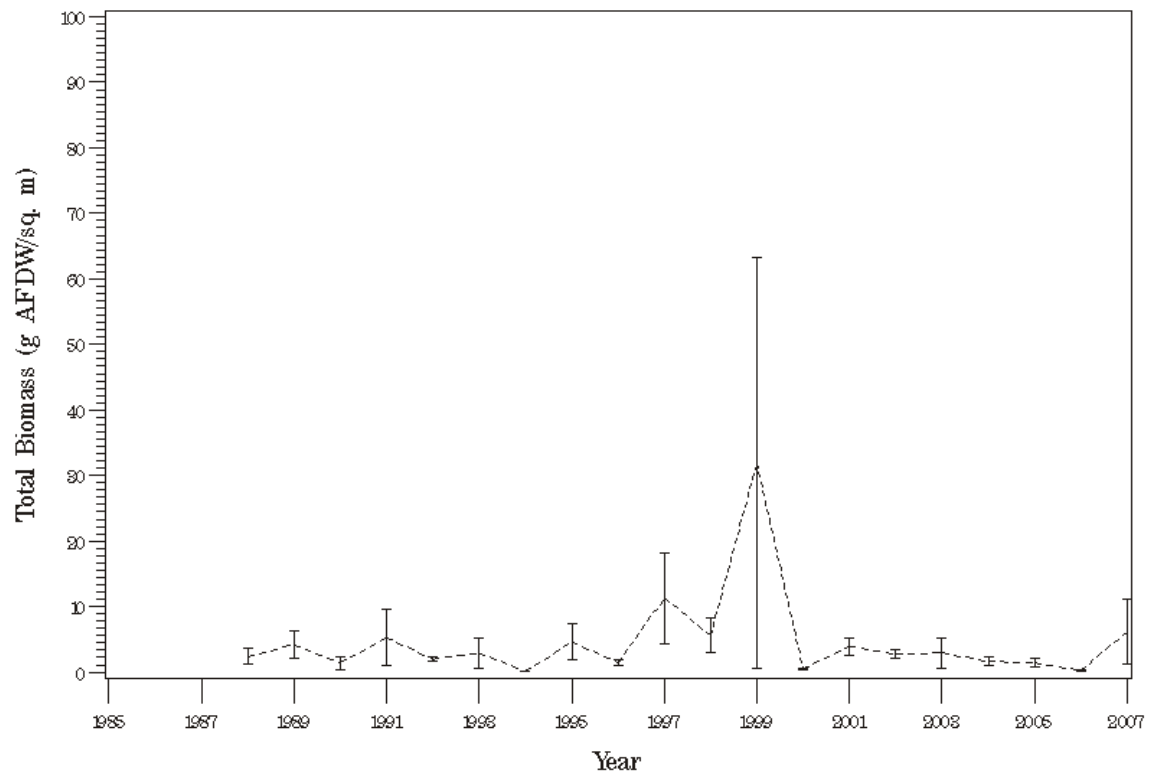


Figure L91. Plot of total benthic community biomass at station LE4.3B for 1985 through 2007.

## LE4.3B (5-YP)

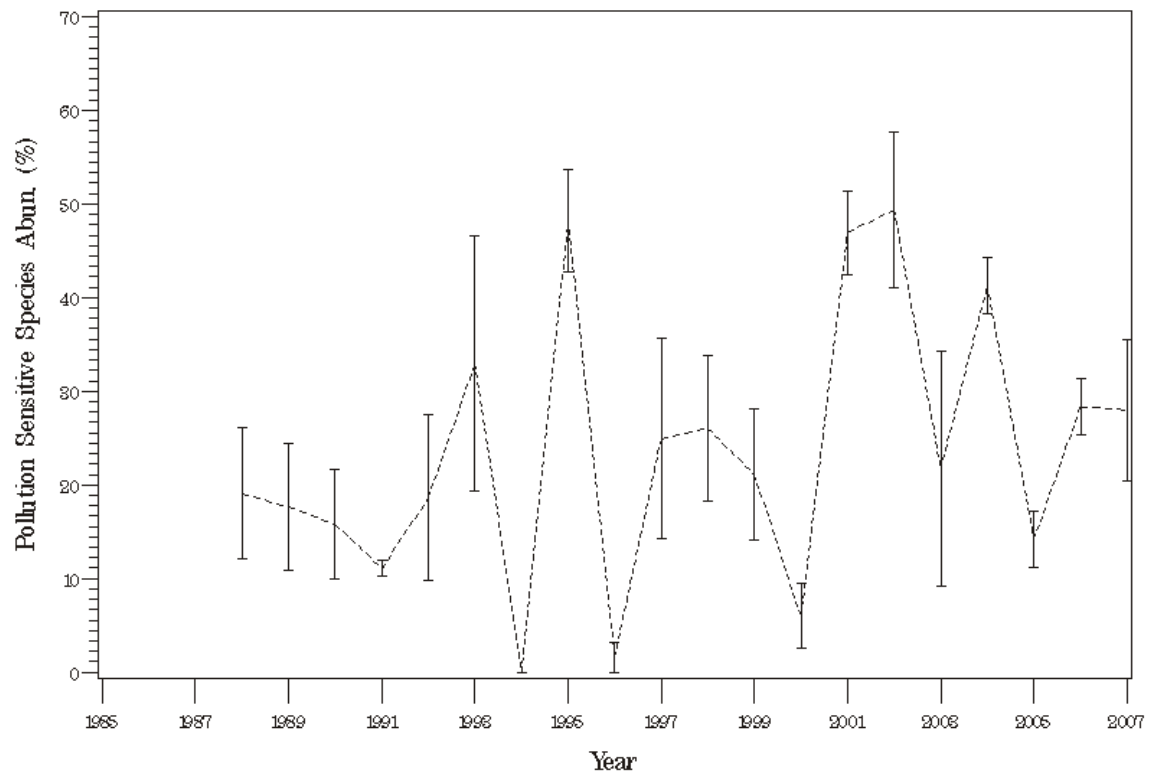


Figure L92. Plot of pollution sensitive species abundance at station LE4.3B for 1985 through 2007.

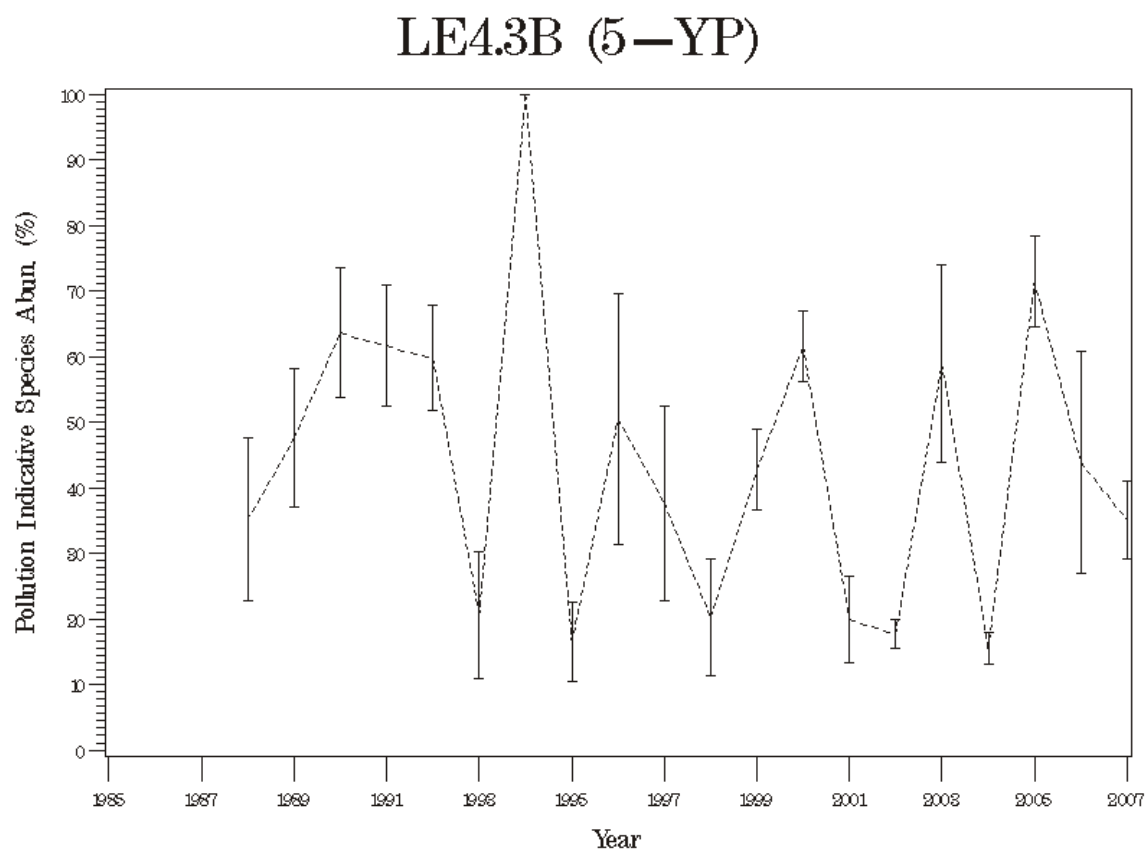


Figure L93. Plot of pollution indicative species abundance at station LE4.3B for 1985 through 2007.

## LE4.3B (5-YP)

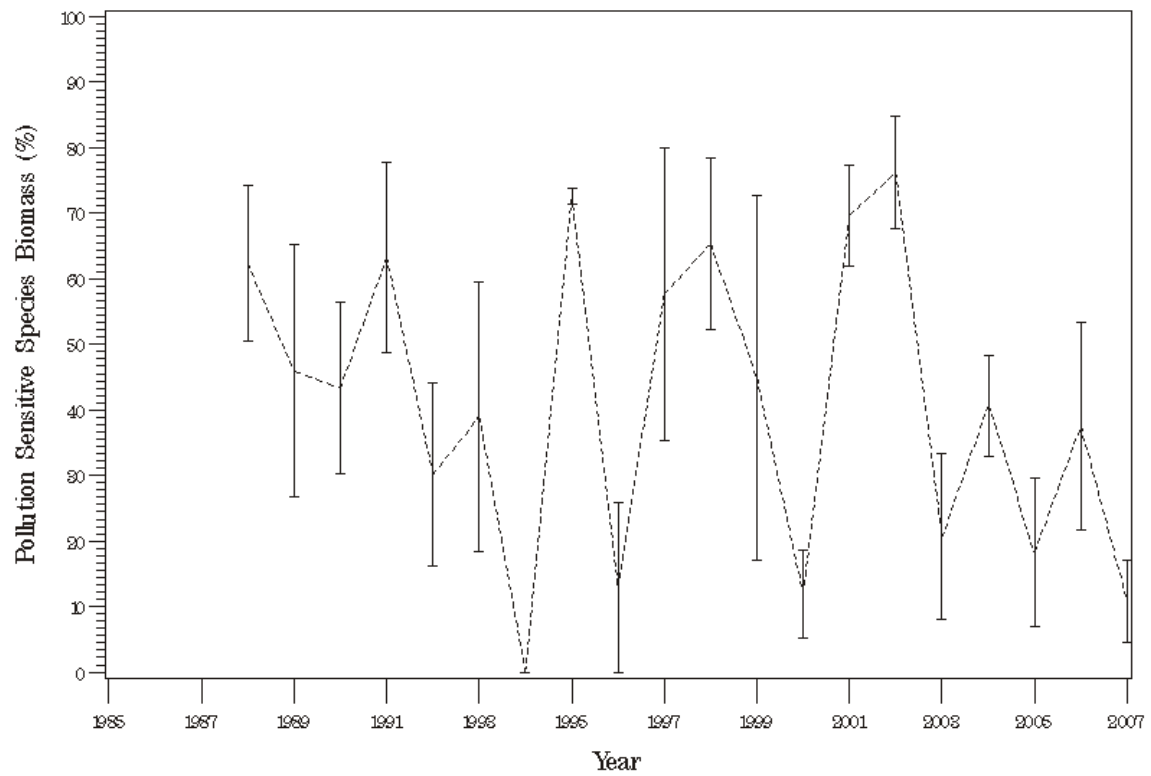


Figure L94. Plot of pollution sensitive species biomass at station LE4.3B for 1985 through 2007.

## LE4.3B (5-YP)

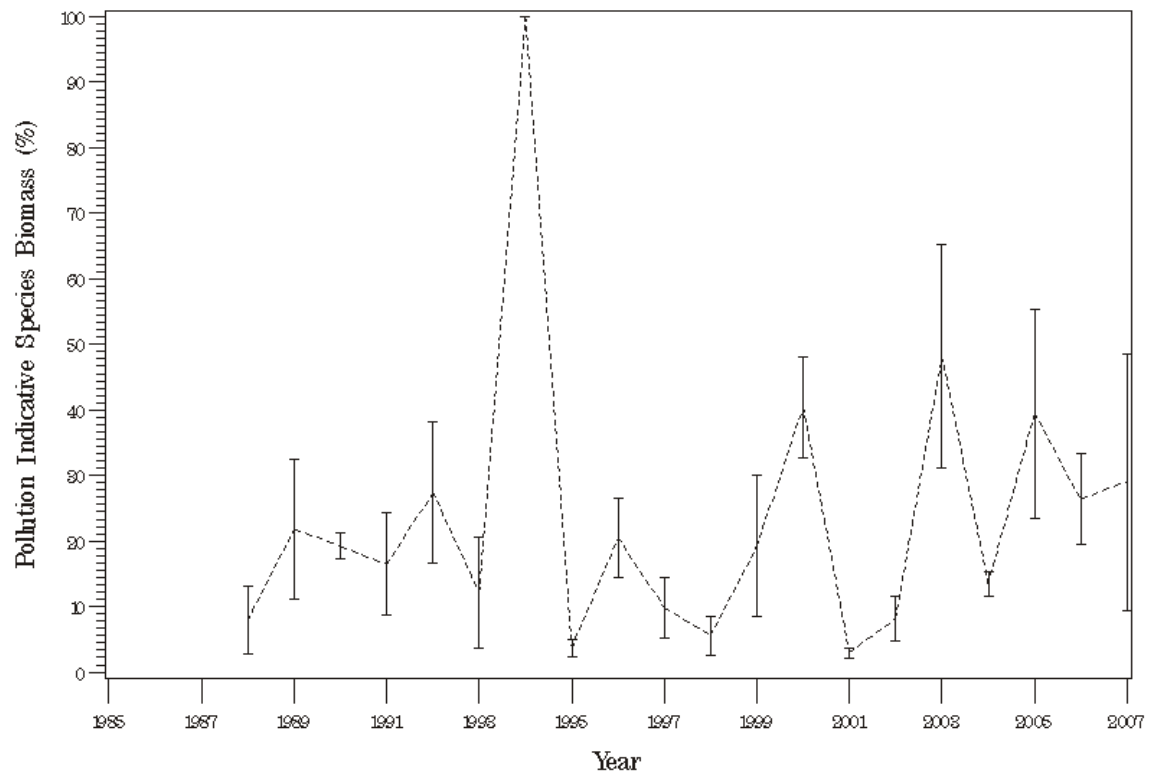


Figure L95. Plot of pollution indicative species biomass at station LE4.3B for 1985 through 2007.

## LE4.3B (5-YP)

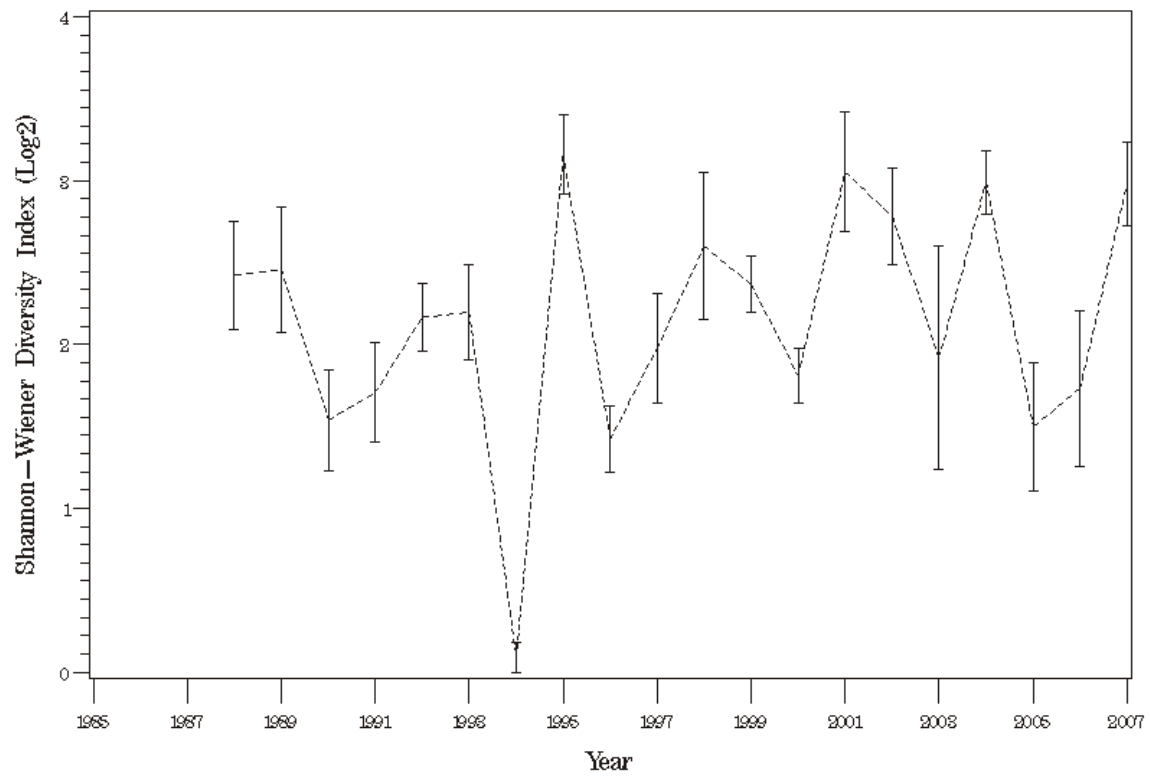


Figure L96. Plot of Shannon-Weiner diversity index at station LE4.3B for 1985 through 2007.

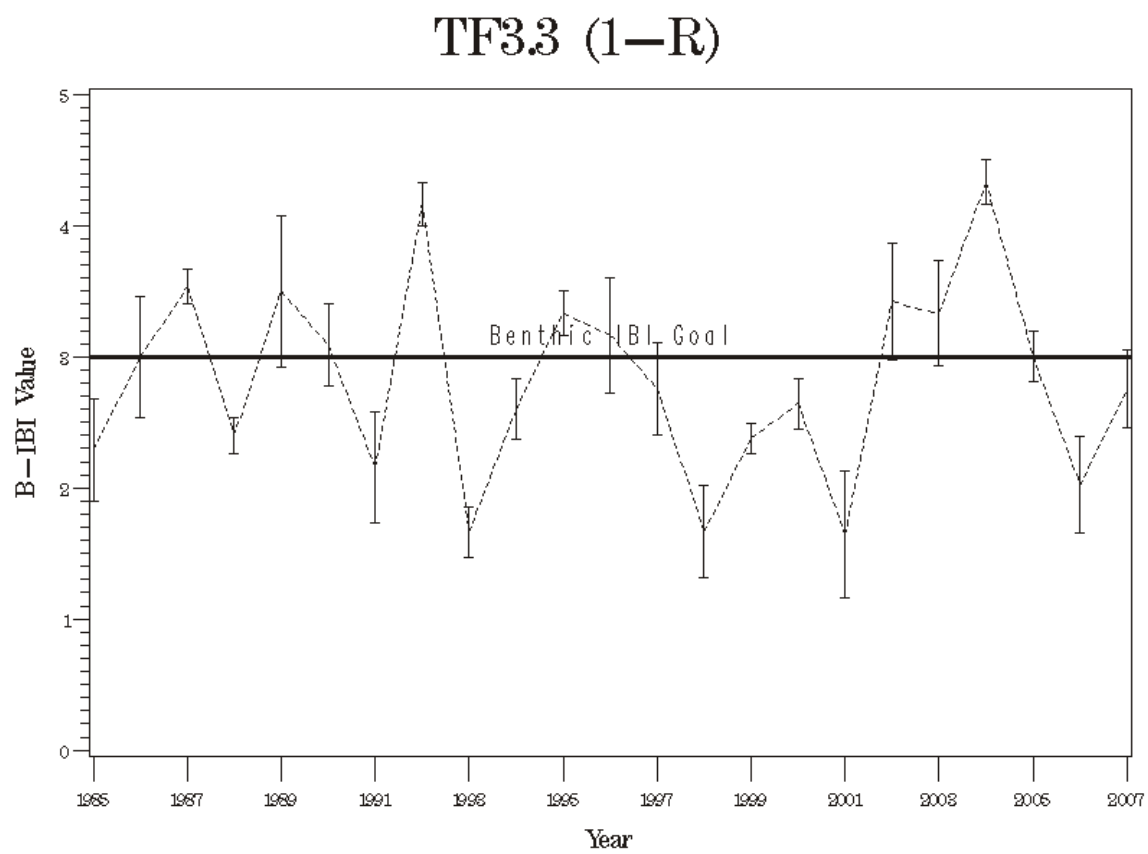


Figure L97. Plot of the benthic IBI against time at station TF3.3 for 1985 through 2007.

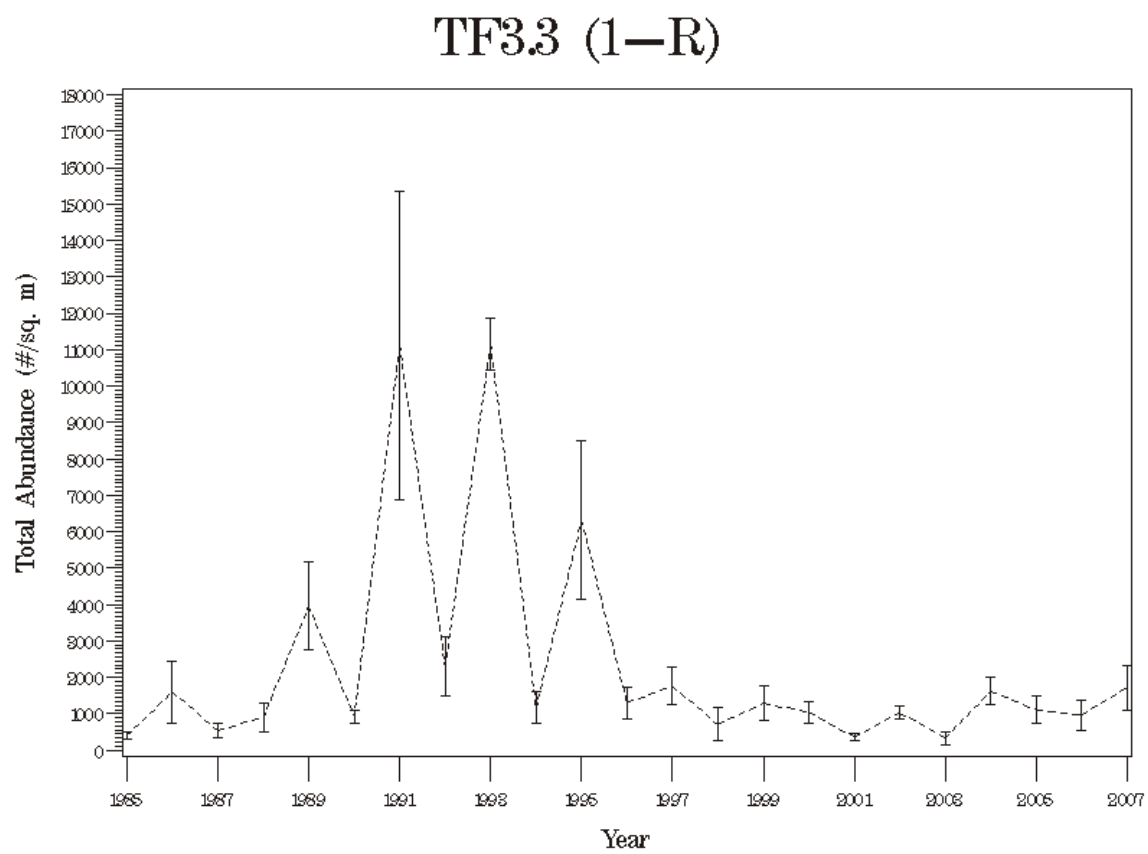


Figure L98. Plot of total benthic community abundance at station TF3.3 for 1985 through 2007.



### TF3.3 (1-R)

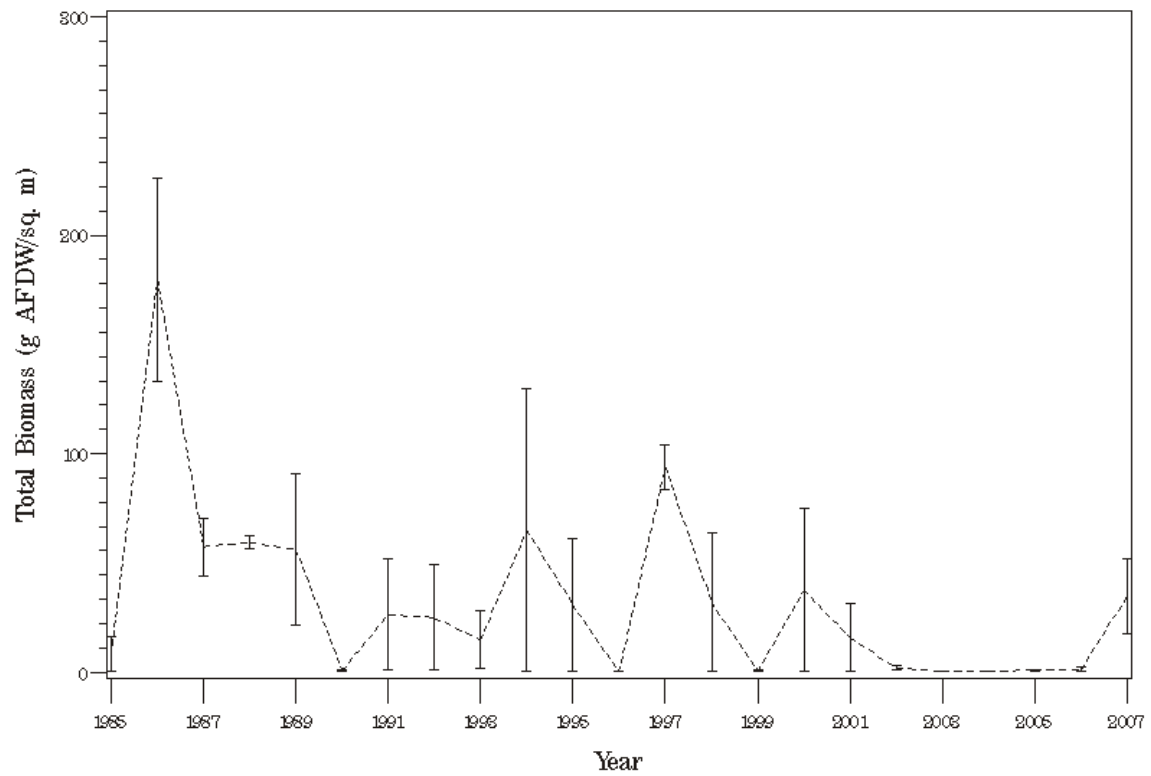


Figure L99. Plot of total benthic community biomass at station TF3.3 for 1985 through 2007.

## TF3.3 (1-R)

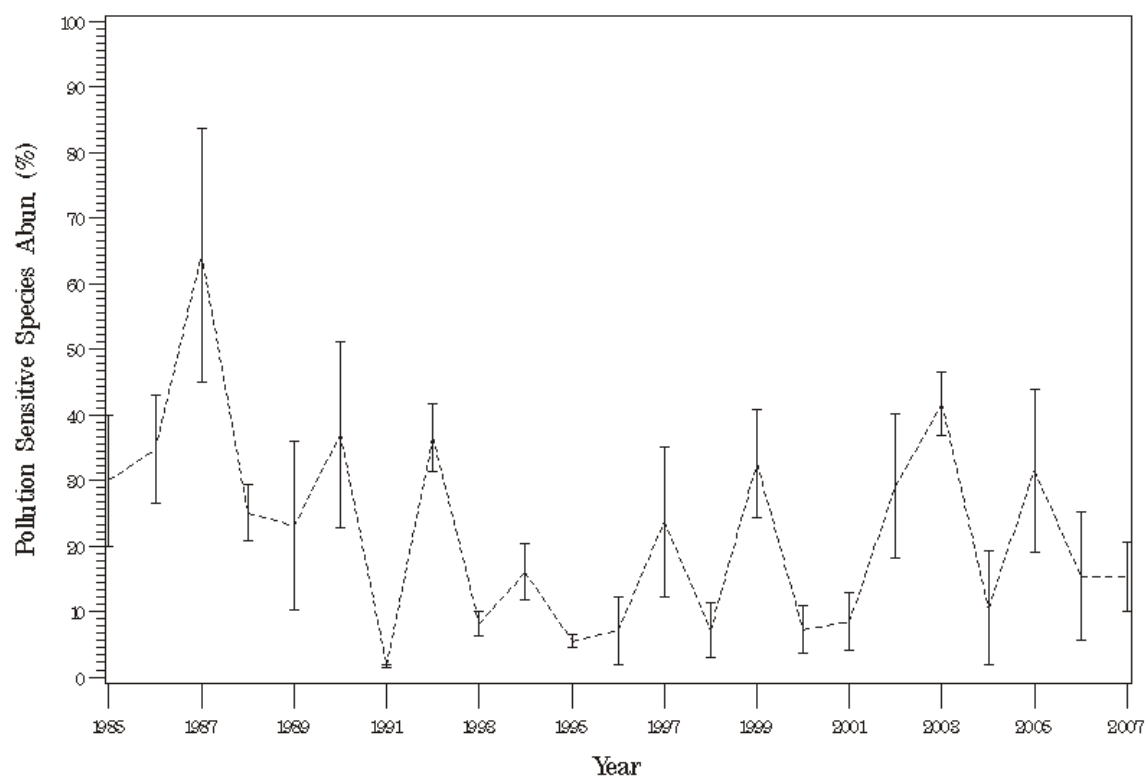


Figure L100. Plot of pollution sensitive species abundance at station TF3.3 for 1985 through 2007.

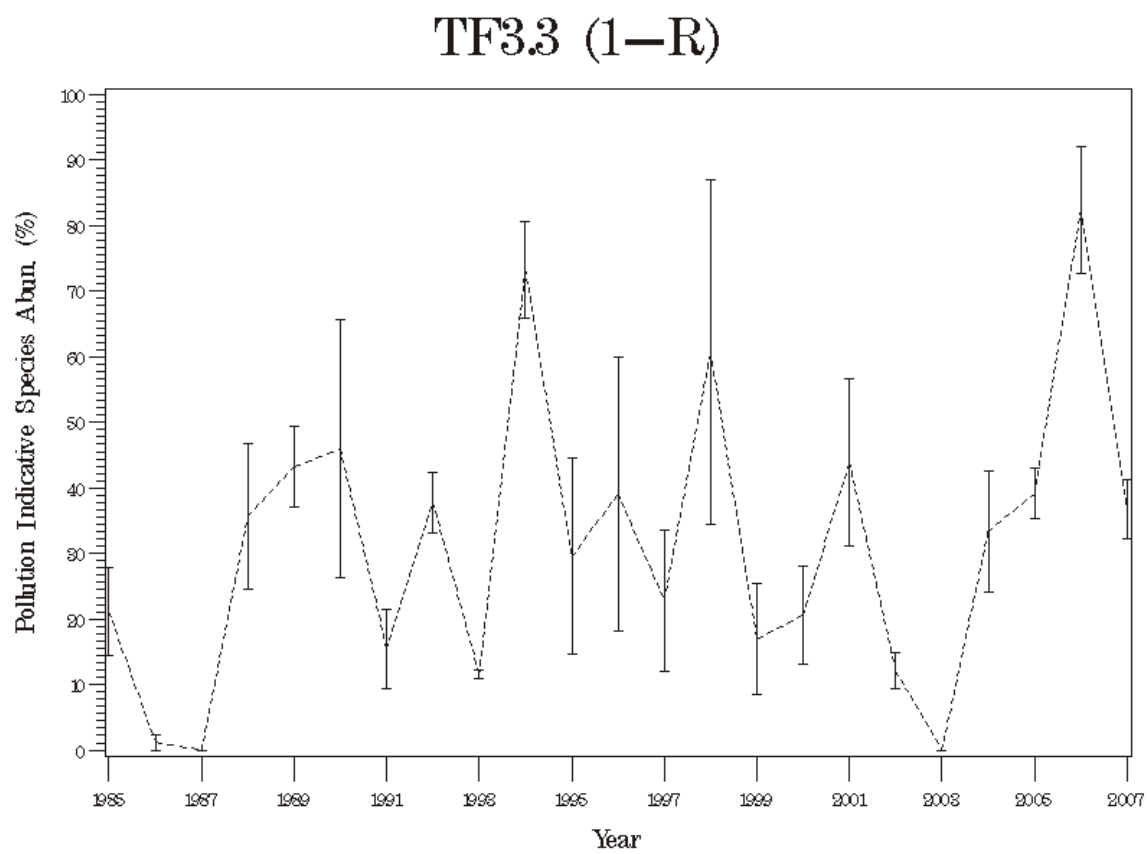


Figure L101. Plot of pollution indicative species abundance at station TF3.3 for 1985 through 2007.

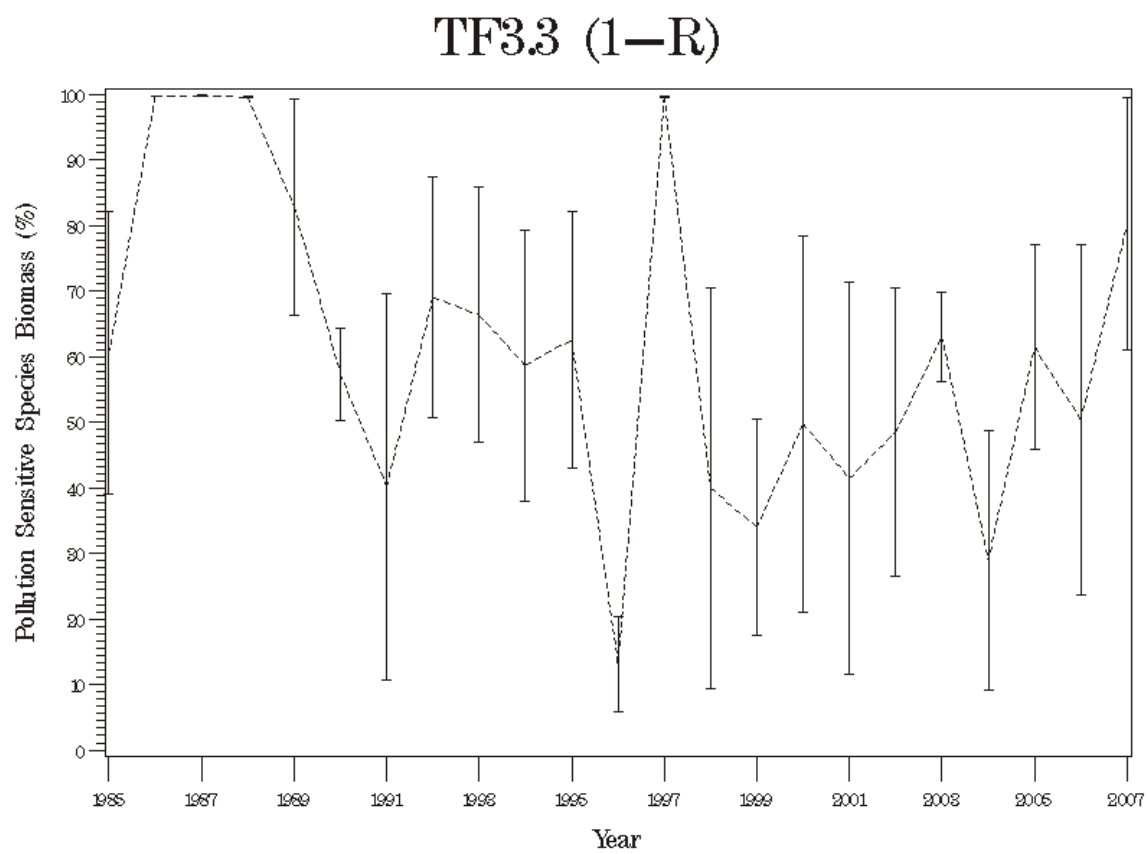


Figure L102. Plot of pollution sensitive species biomass at station TF3.3 for 1985 through 2007.

# TF3.3 (1-R)

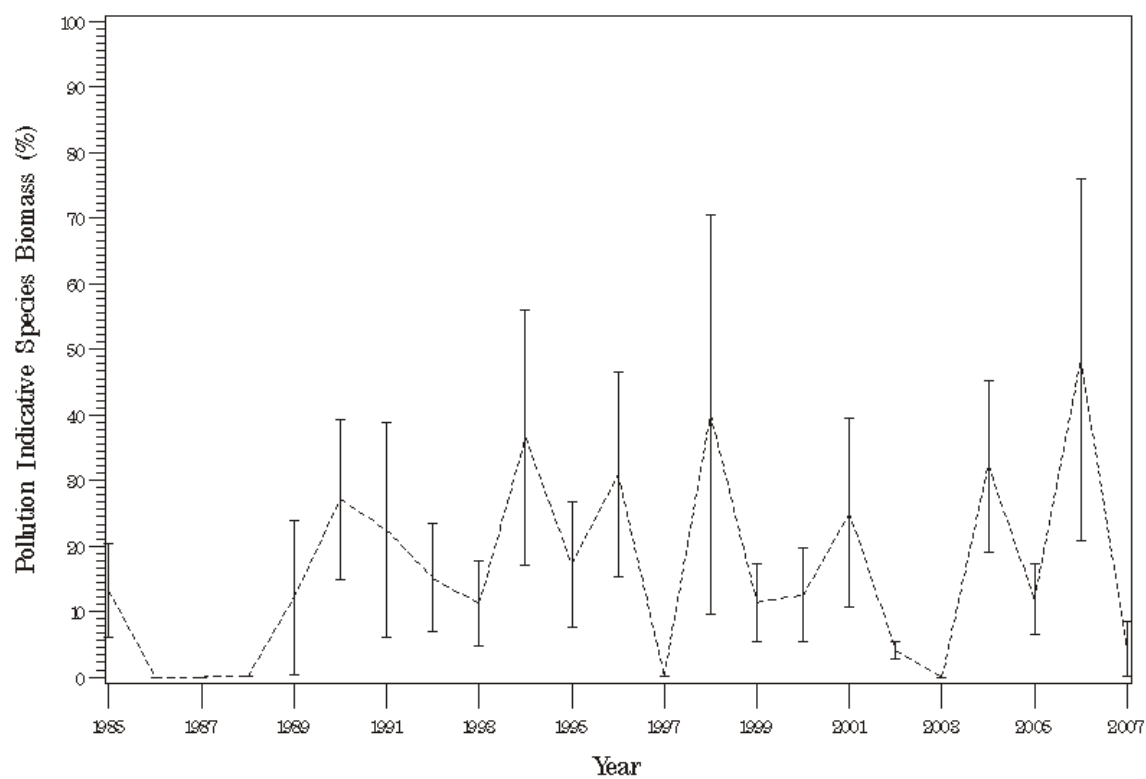


Figure L103. Plot of pollution indicative species biomass at station TF3.3 for 1985 through 2007.

### TF3.3 (1-R)

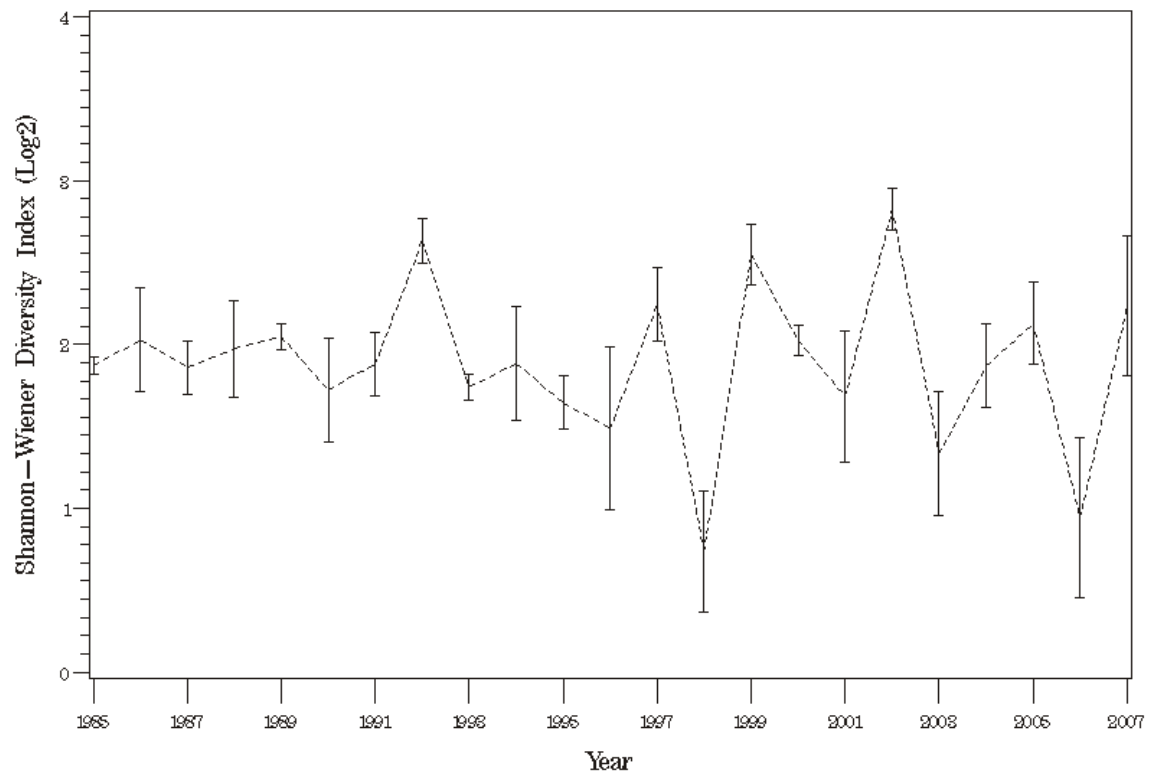


Figure L104. Plot of Shannon-Weiner diversity index at station TF3.3 for 1985 through 2007.

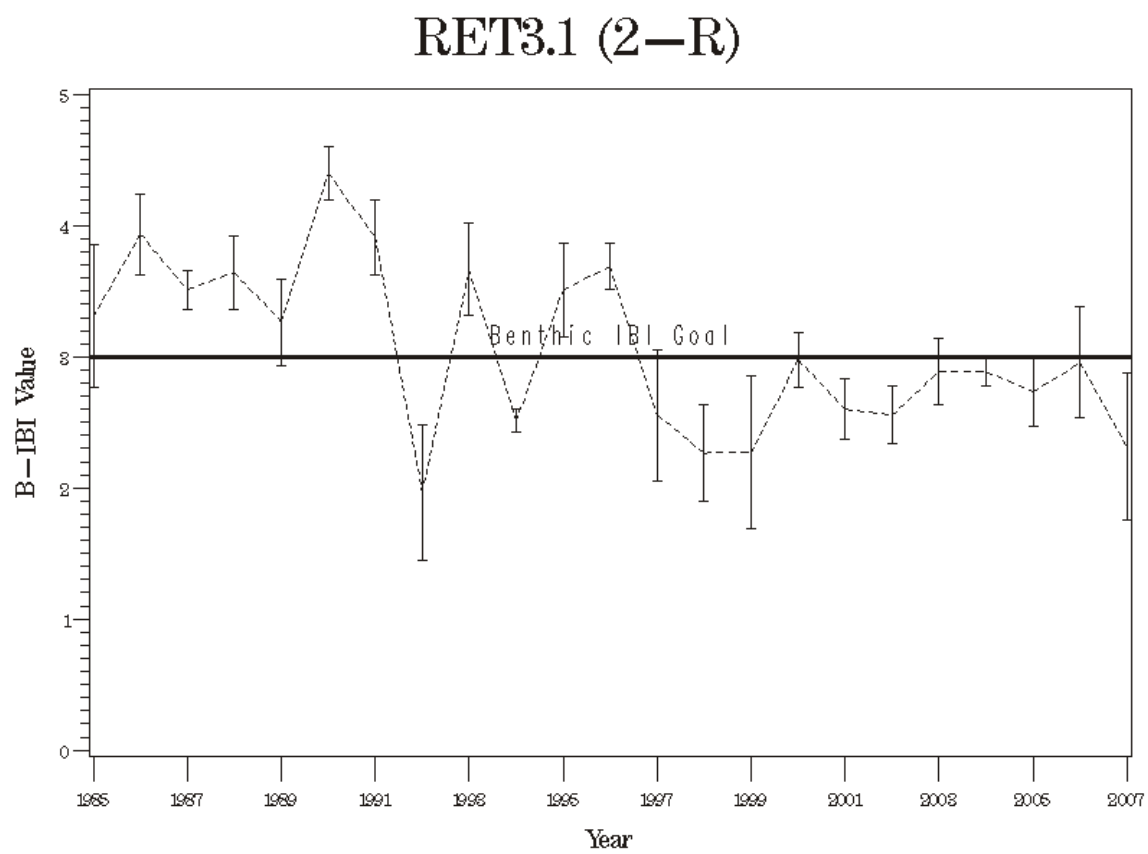


Figure L105. Plot of the benthic IBI against time at station RET3.1 for 1985 through 2007.

## RET3.1 (2-R)

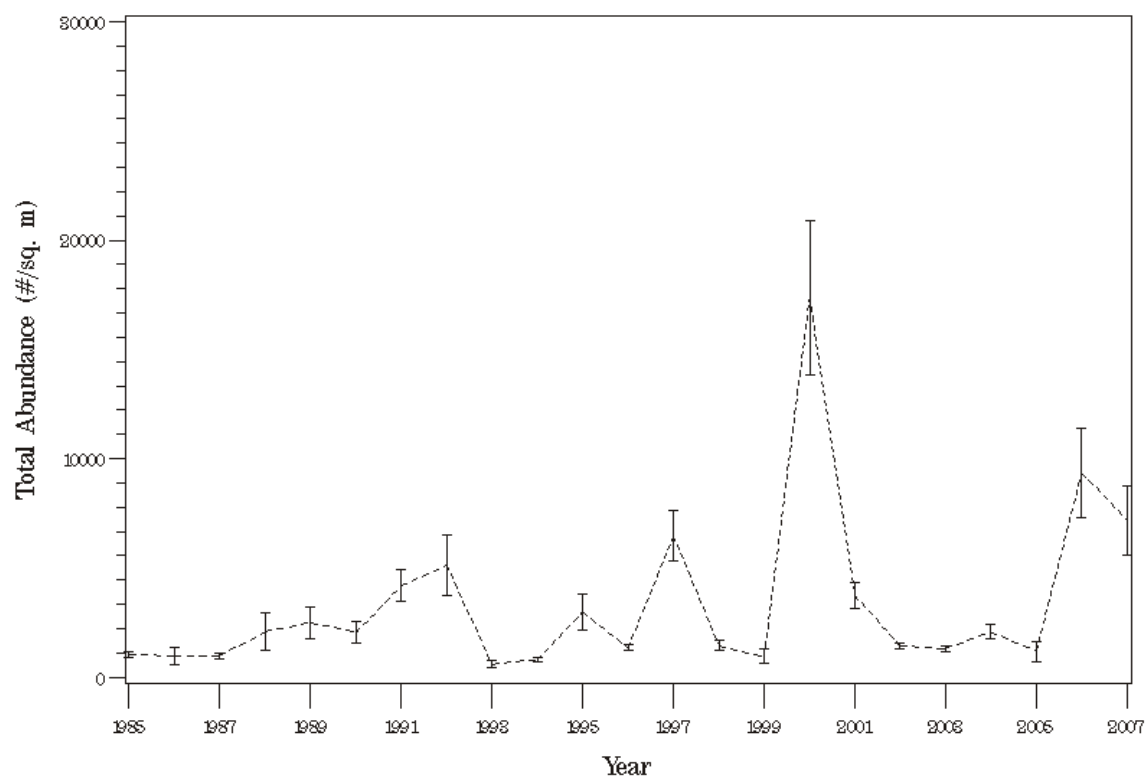


Figure L106. Plot of total benthic community abundance at station RET3.1 for 1985 through 2007.



## RET3.1 (2-R)

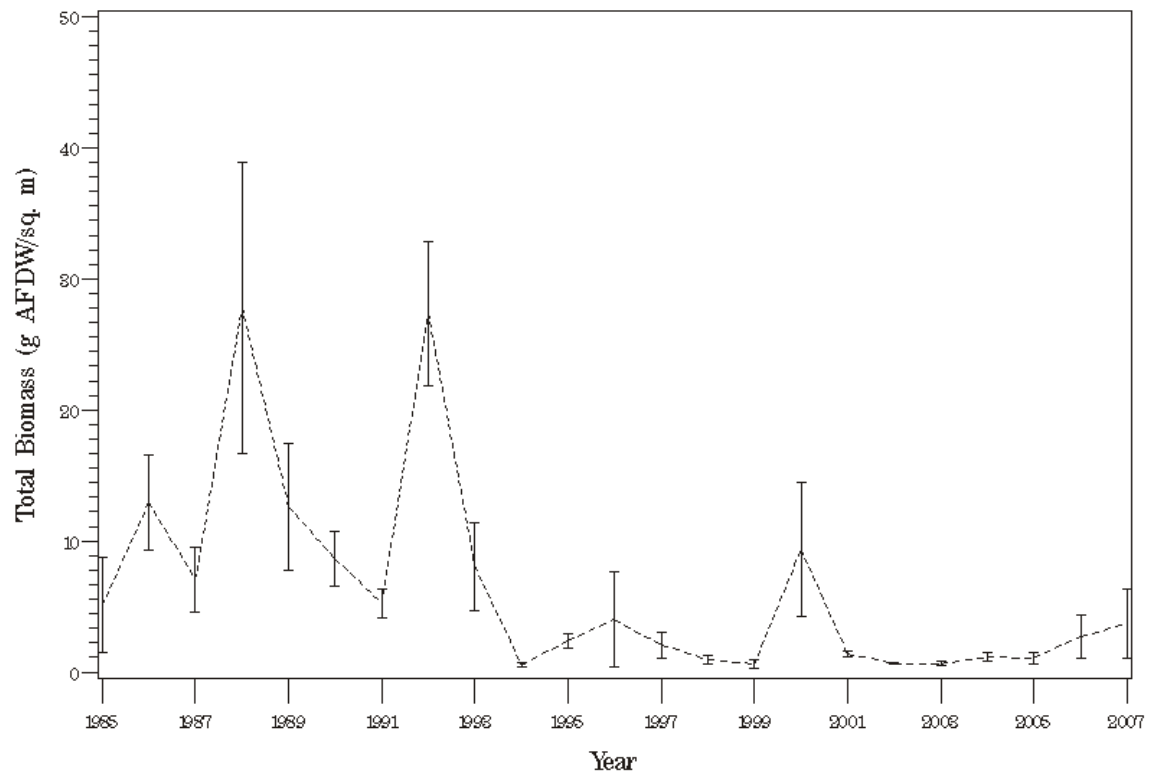


Figure L107. Plot of total benthic community biomass at station RET3.1 for 1985 through 2007.

## RET3.1 (2-R)

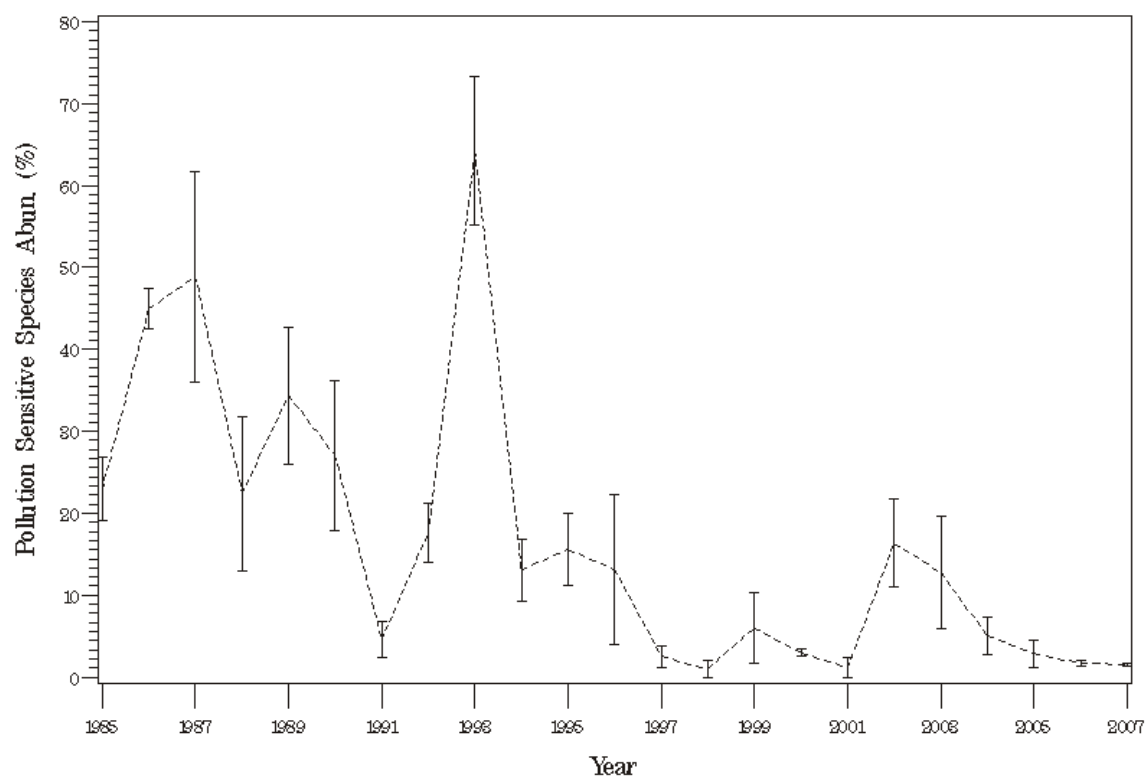


Figure L108. Plot of pollution sensitive species abundance at station RET3.1 for 1985 through 2007.

## RET3.1 (2-R)

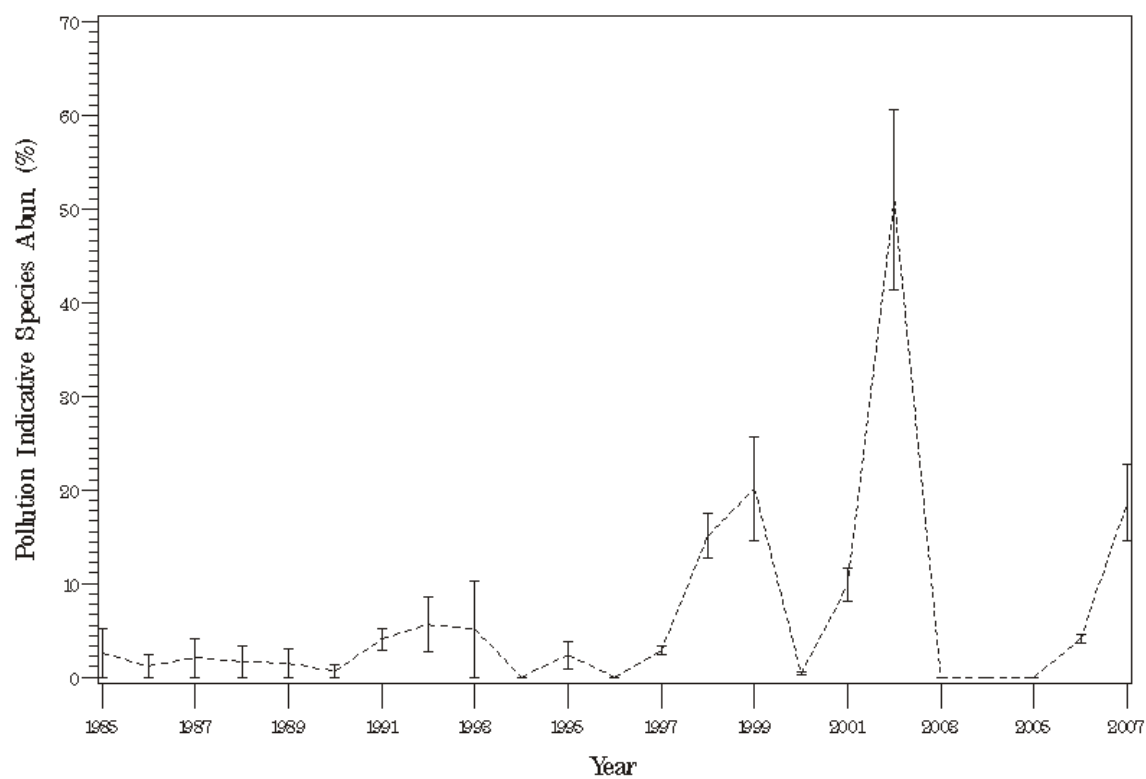


Figure L109. Plot of pollution indicative species abundance at station RET3.1 for 1985 through 2007.

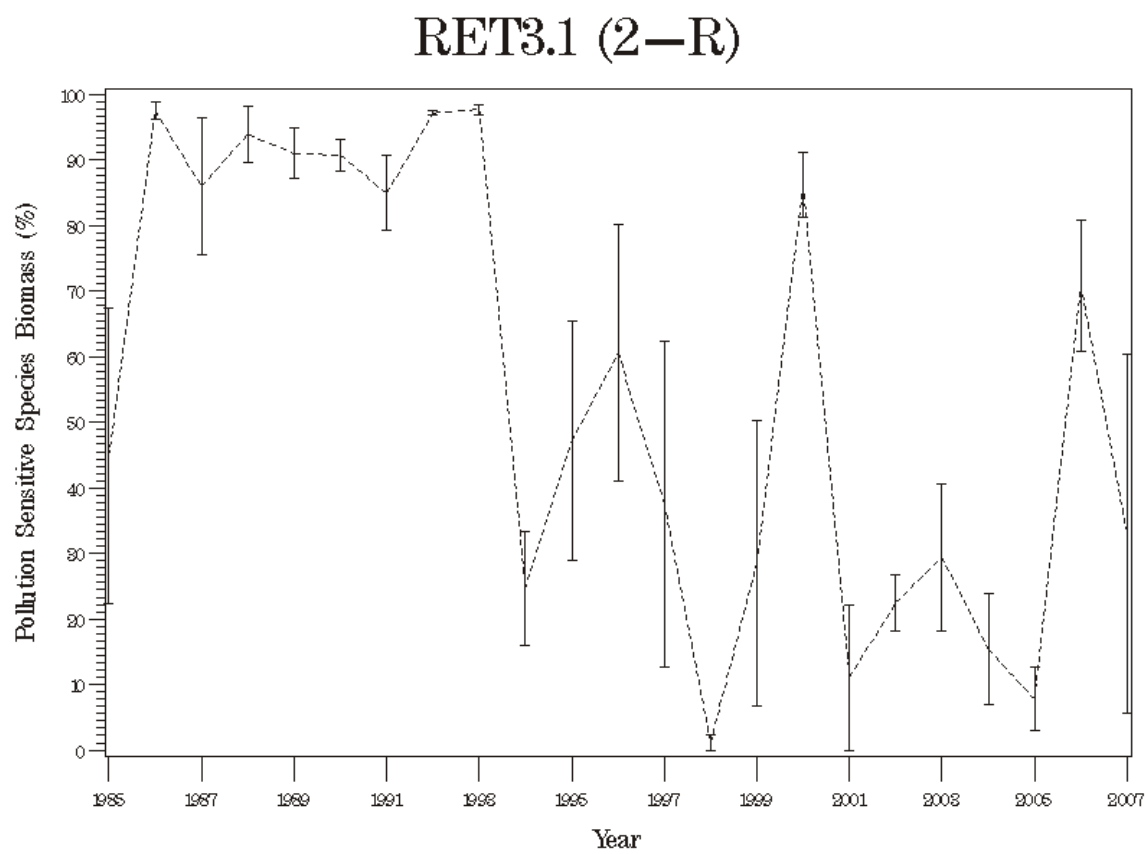


Figure L110. Plot of pollution sensitive species biomass at station RET3.1 for 1985 through 2007.

## RET3.1 (2-R)

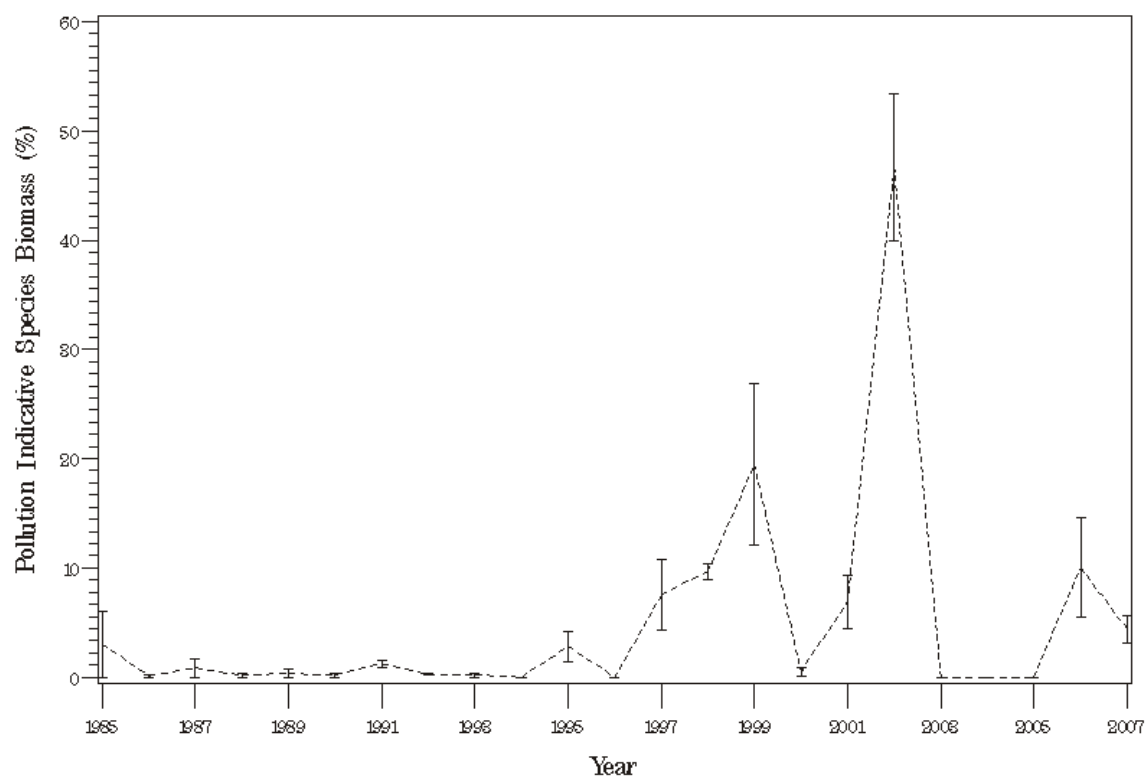


Figure L111. Plot of pollution indicative species biomass at station RET3.1 for 1985 through 2007.

## RET3.1 (2-R)

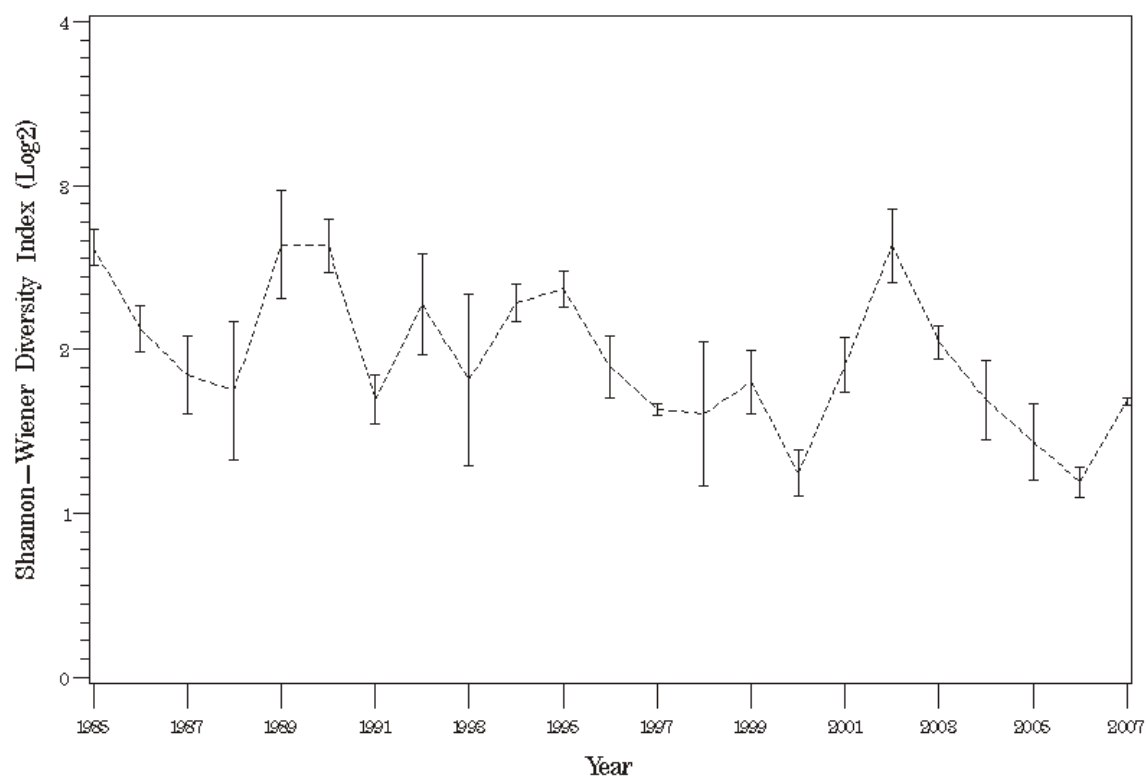


Figure L112. Plot of Shannon-Weiner diversity index at station RET3.1 for 1985 through 2007.

## LE3.2 (3-R)

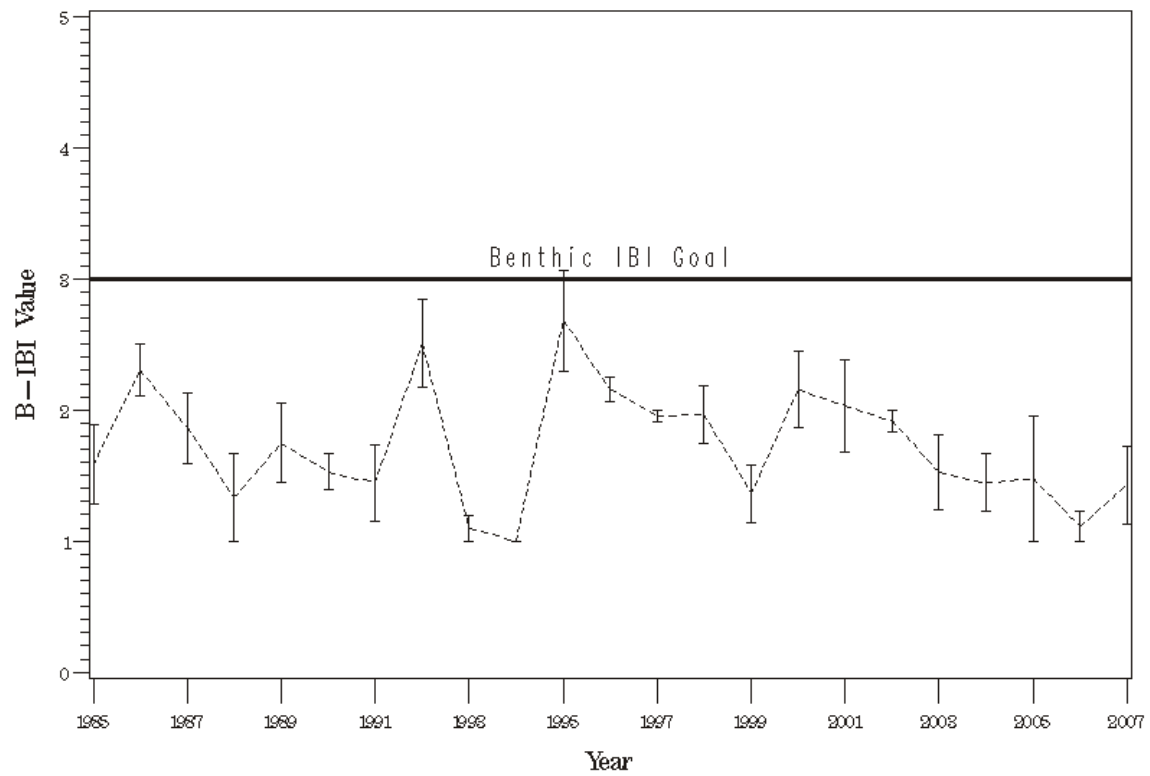


Figure L113. Plot of the benthic IBI against time at station LE3.2 for 1985 through 2007.

## LE3.2 (3-R)

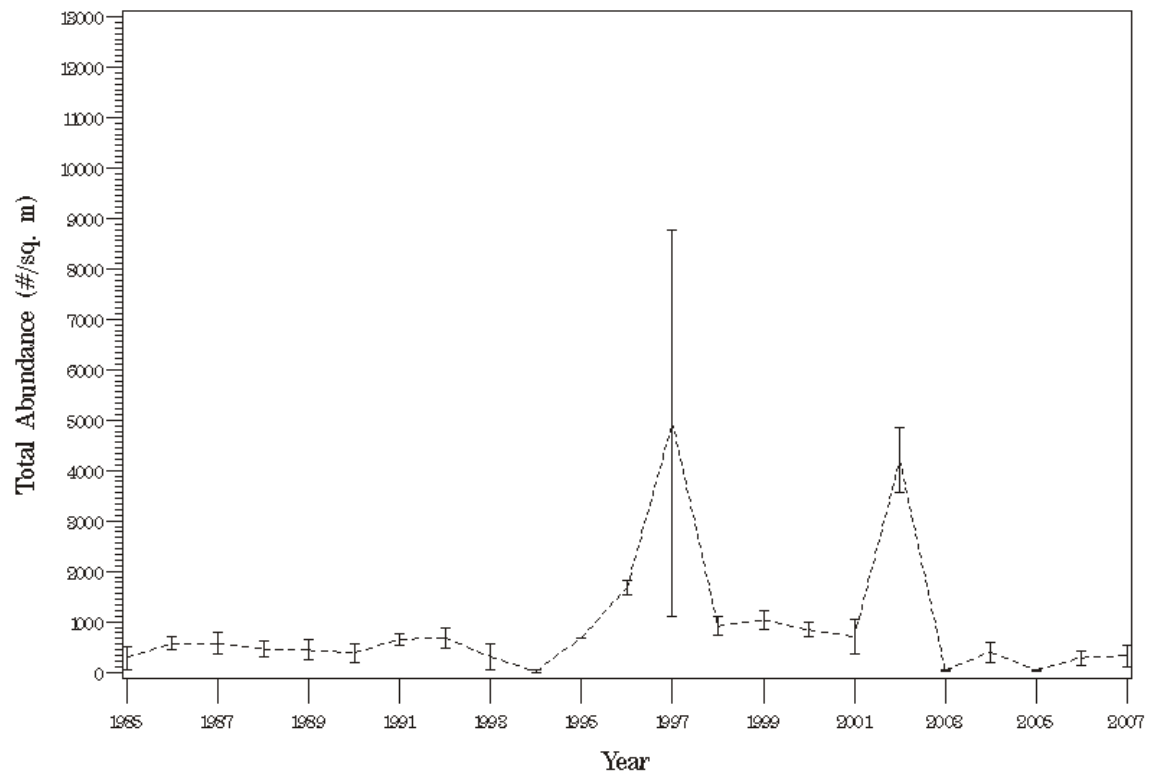


Figure L114. Plot of total benthic community abundance at station LE3.2 for 1985 through 2007.



## LE3.2 (3-R)

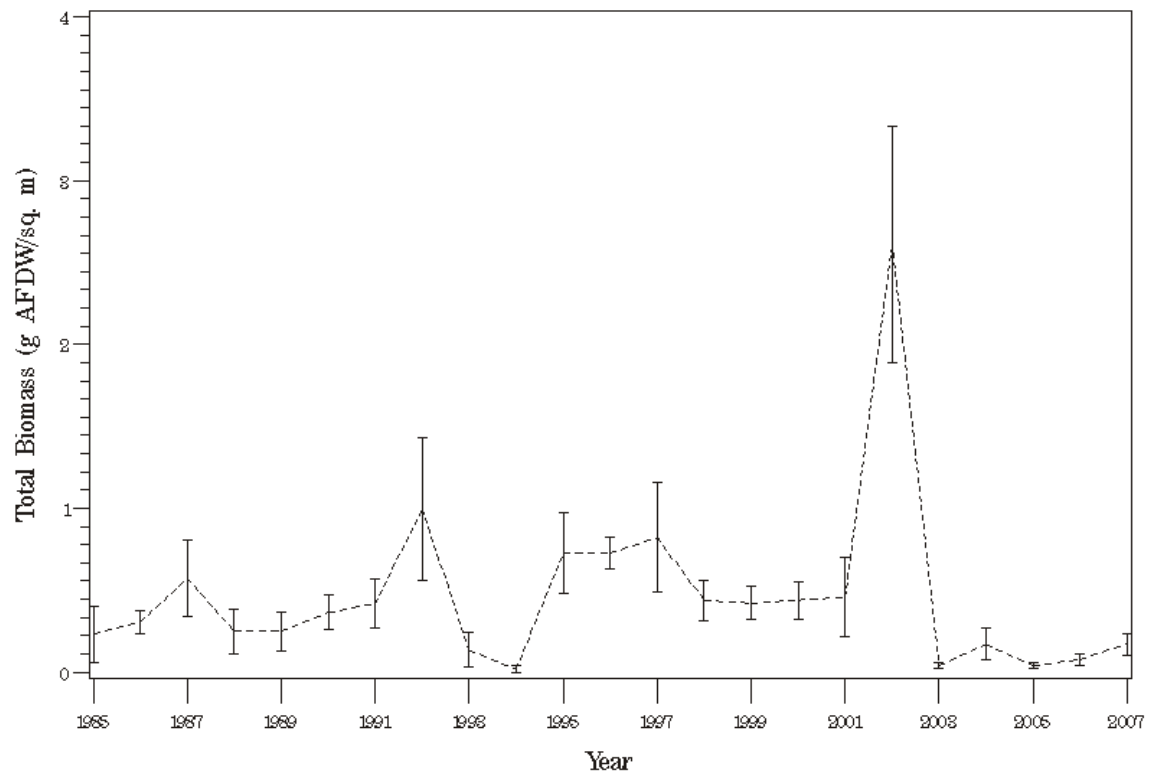


Figure L115. Plot of total benthic community biomass at station LE3.2 for 1985 through 2007.

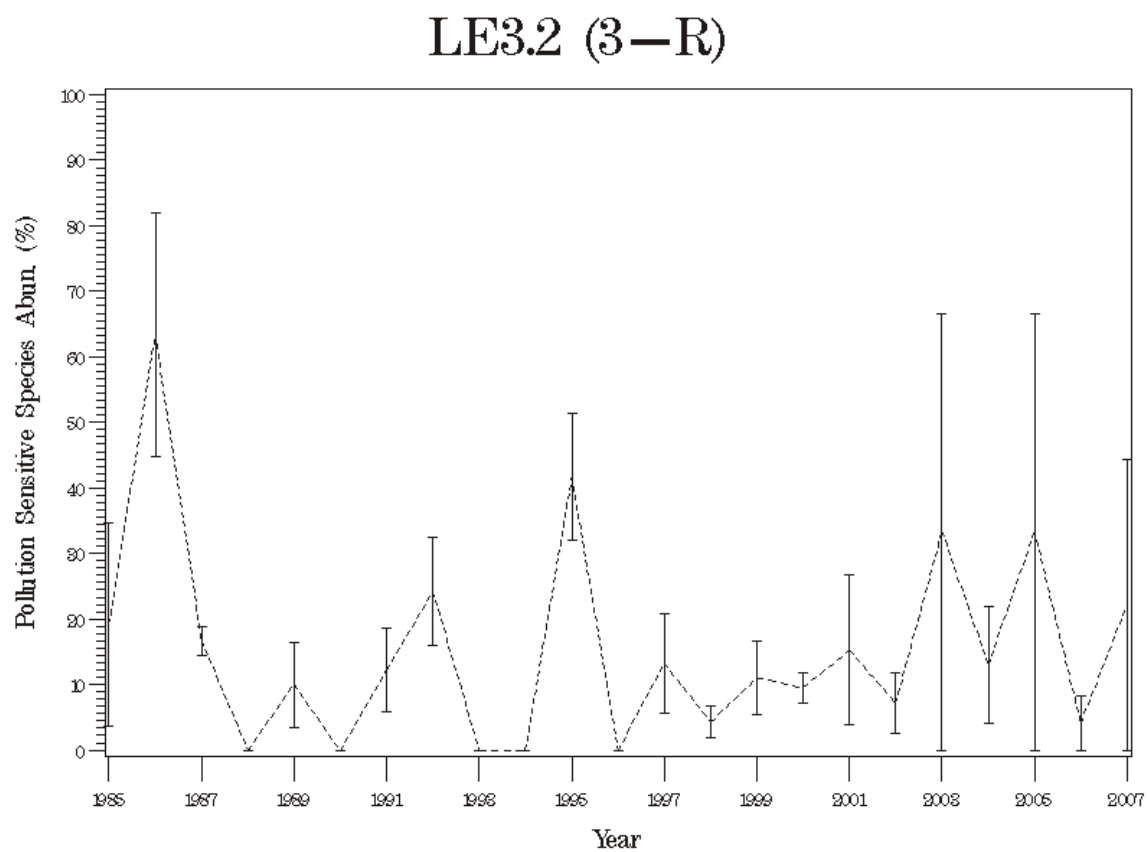


Figure L116. Plot of pollution sensitive species abundance at station LE3.2 for 1985 through 2007.

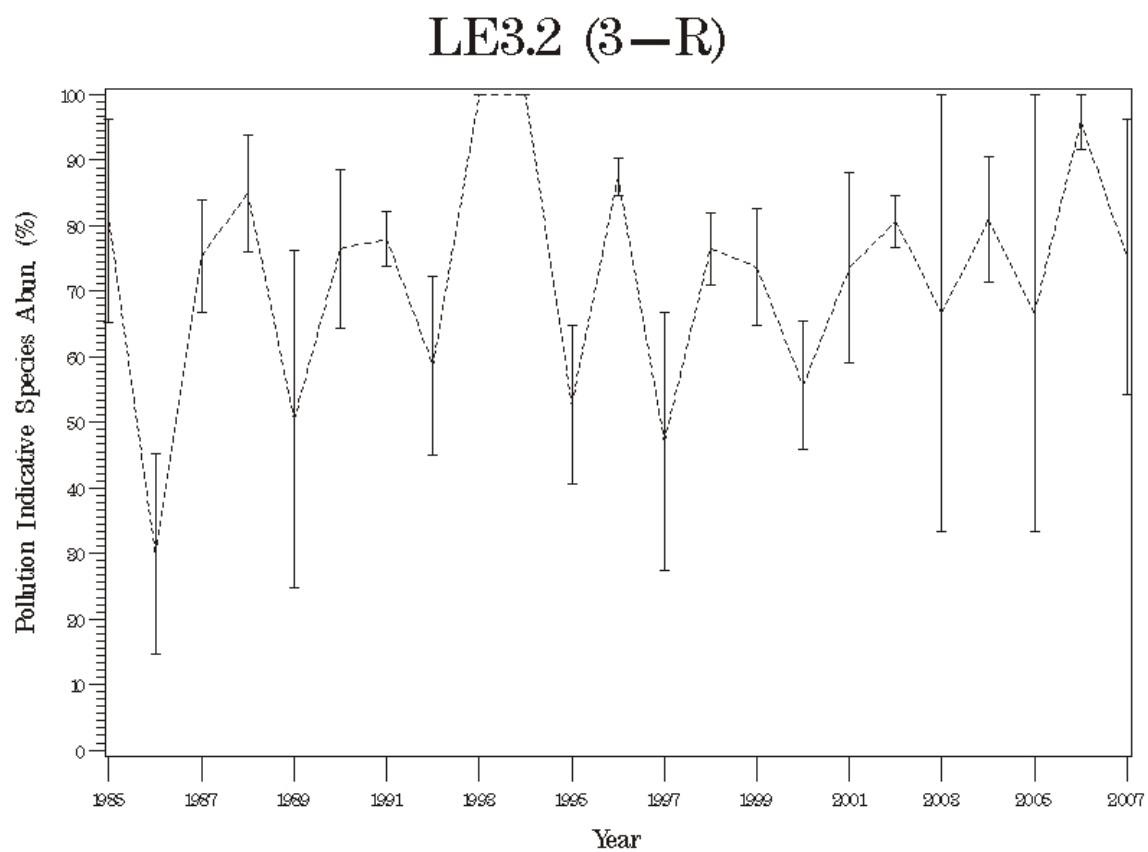


Figure L117. Plot of pollution indicative species abundance at station LE3.2 for 1985 through 2007.

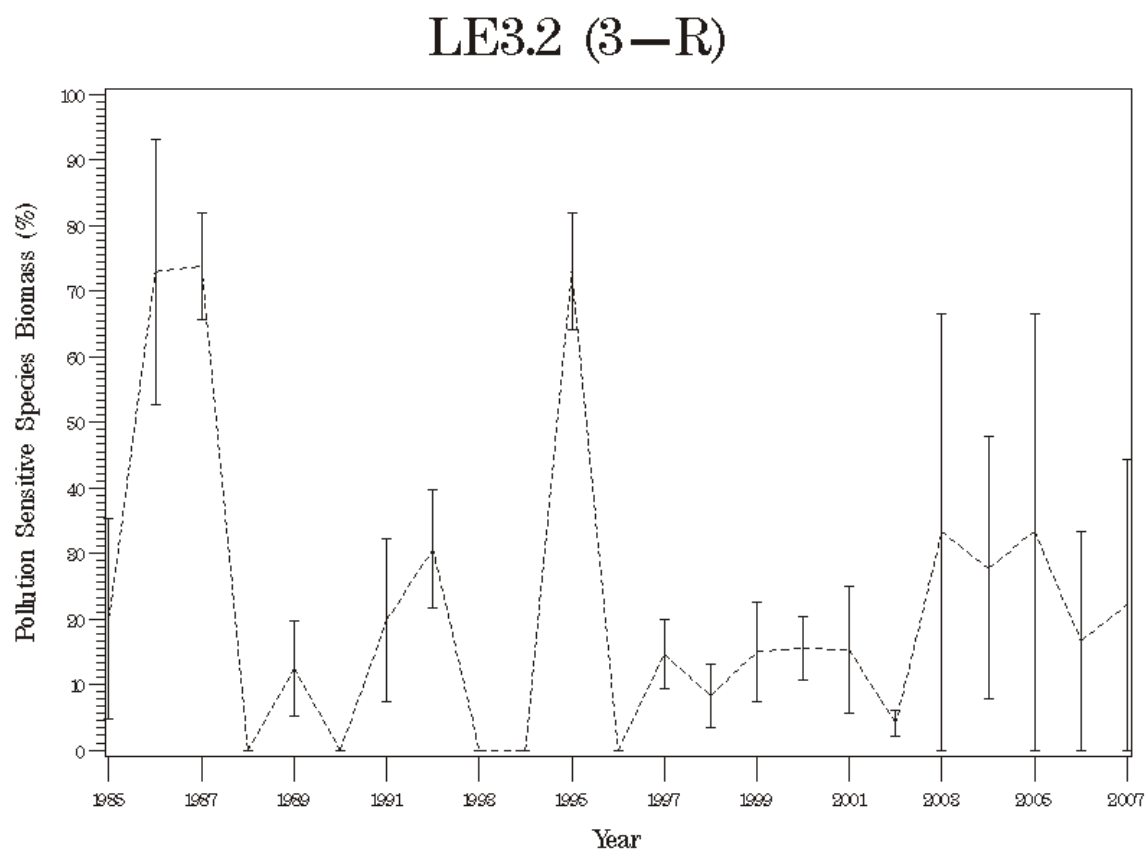


Figure L118. Plot of pollution sensitive species biomass at station LE3.2 for 1985 through 2007.

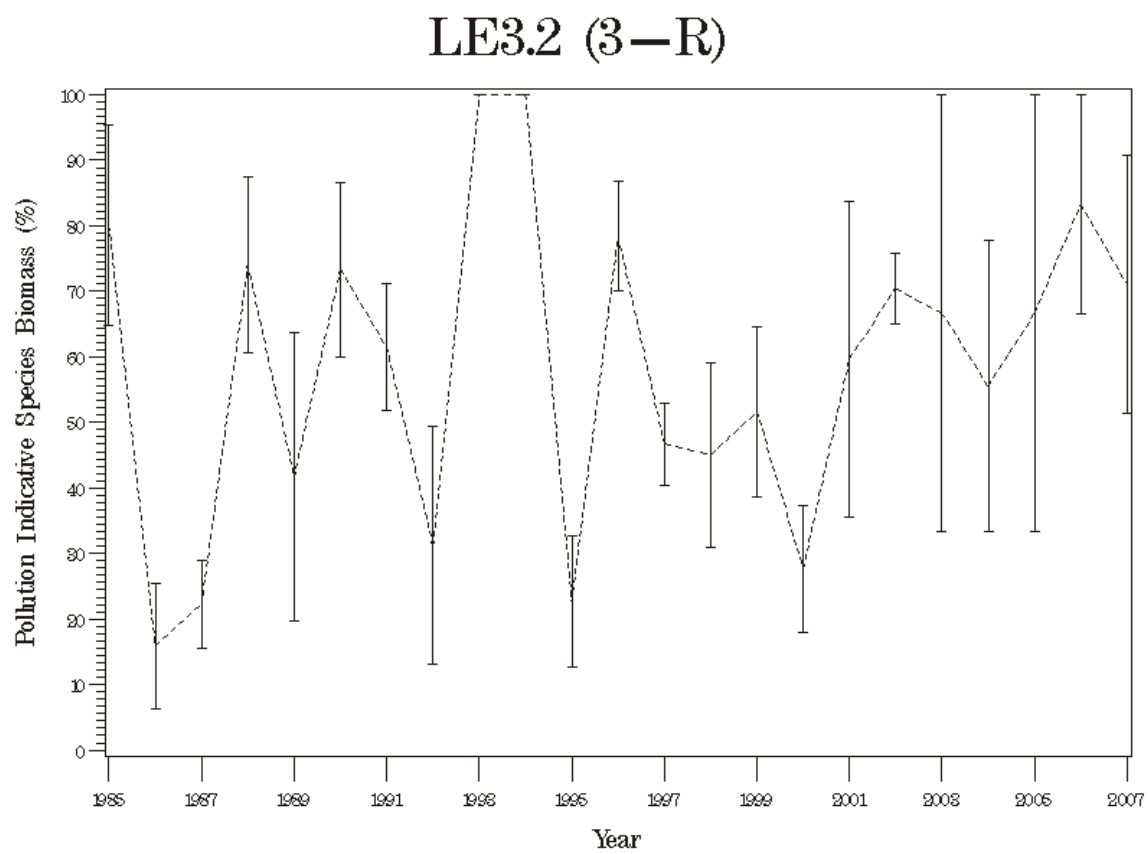


Figure L119. Plot of pollution indicative species biomass at station LE3.2 for 1985 through 2007.

## LE3.2 (3-R)

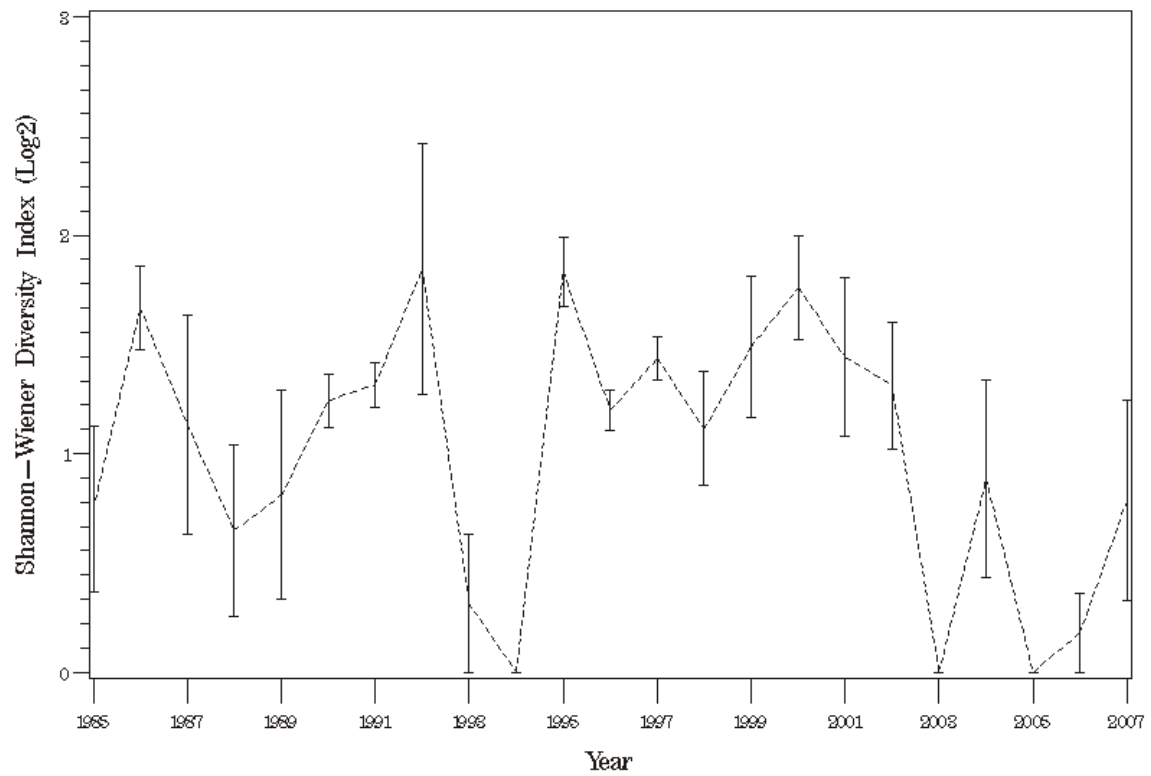


Figure L120. Plot of Shannon-Weiner diversity index at station LE3.2 for 1985 through 2007.

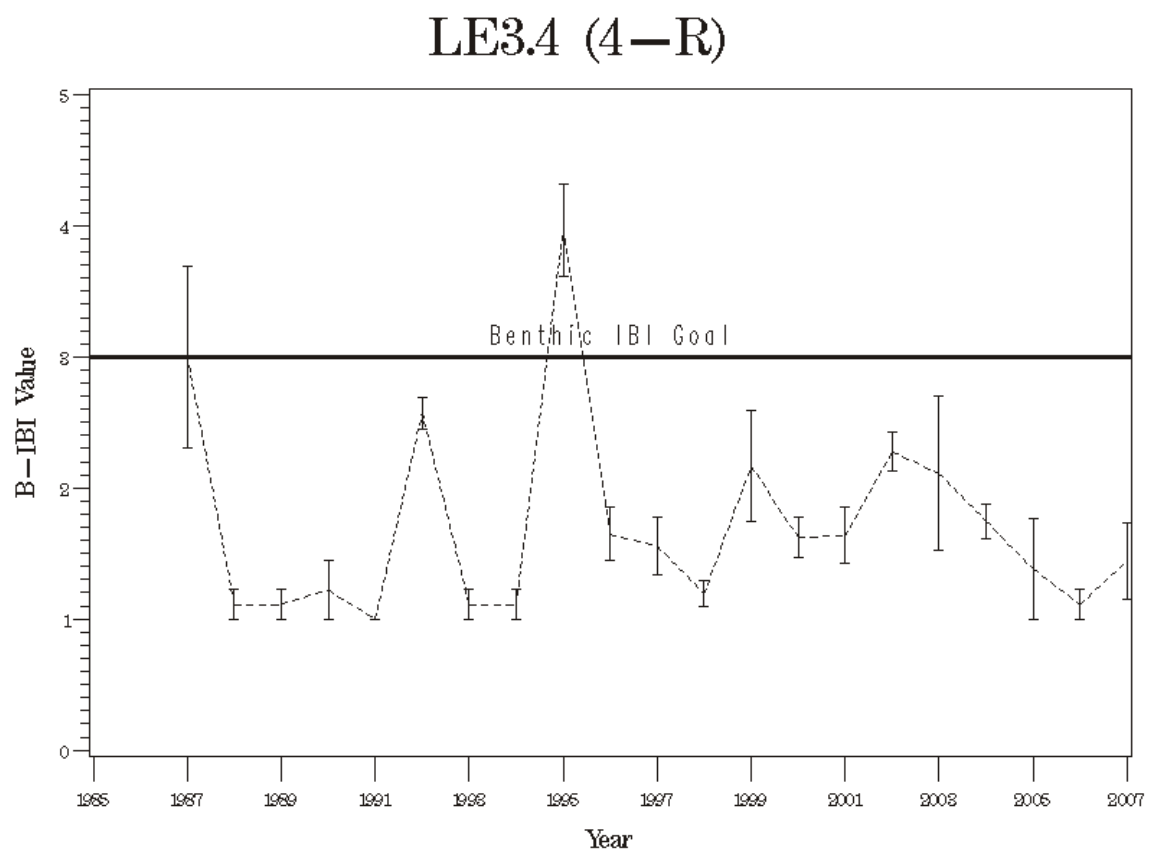


Figure L121. Plot of the benthic IBI against time at station LE3.4 for 1985 through 2007.

## LE3.4 (4-R)

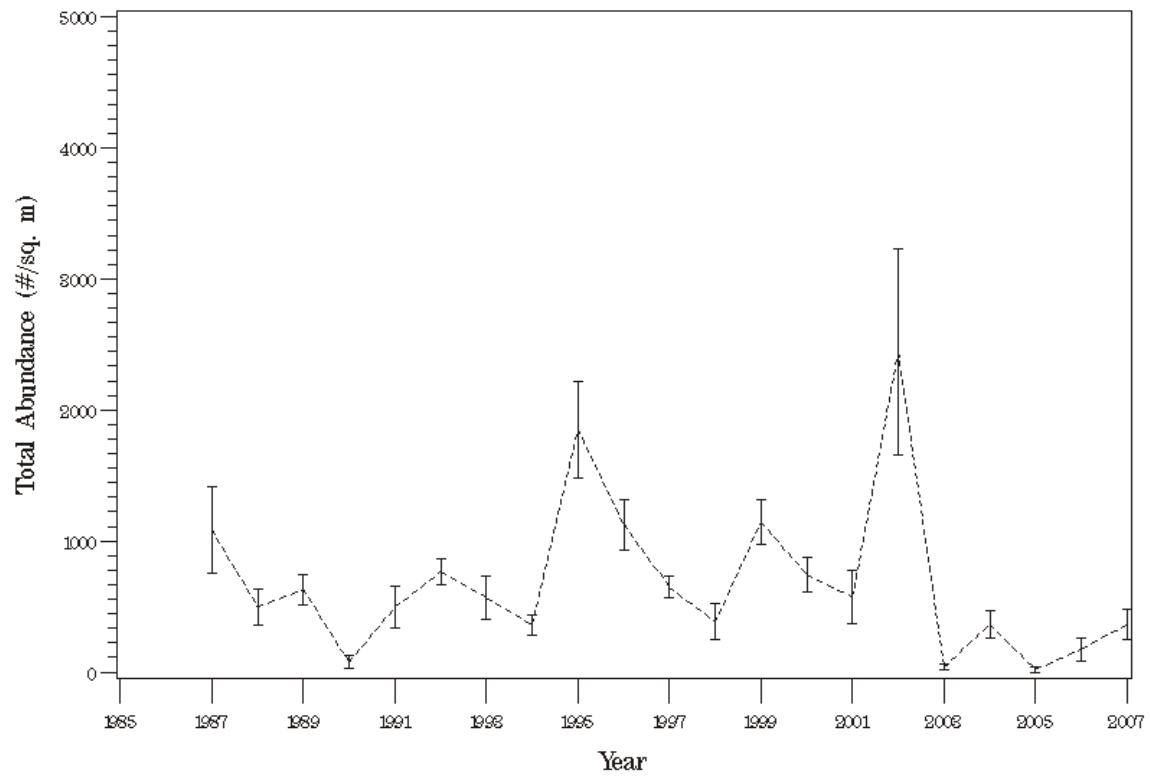


Figure L122. Plot of total benthic community abundance at station LE3.4 for 1985 through 2007.



## LE3.4 (4-R)

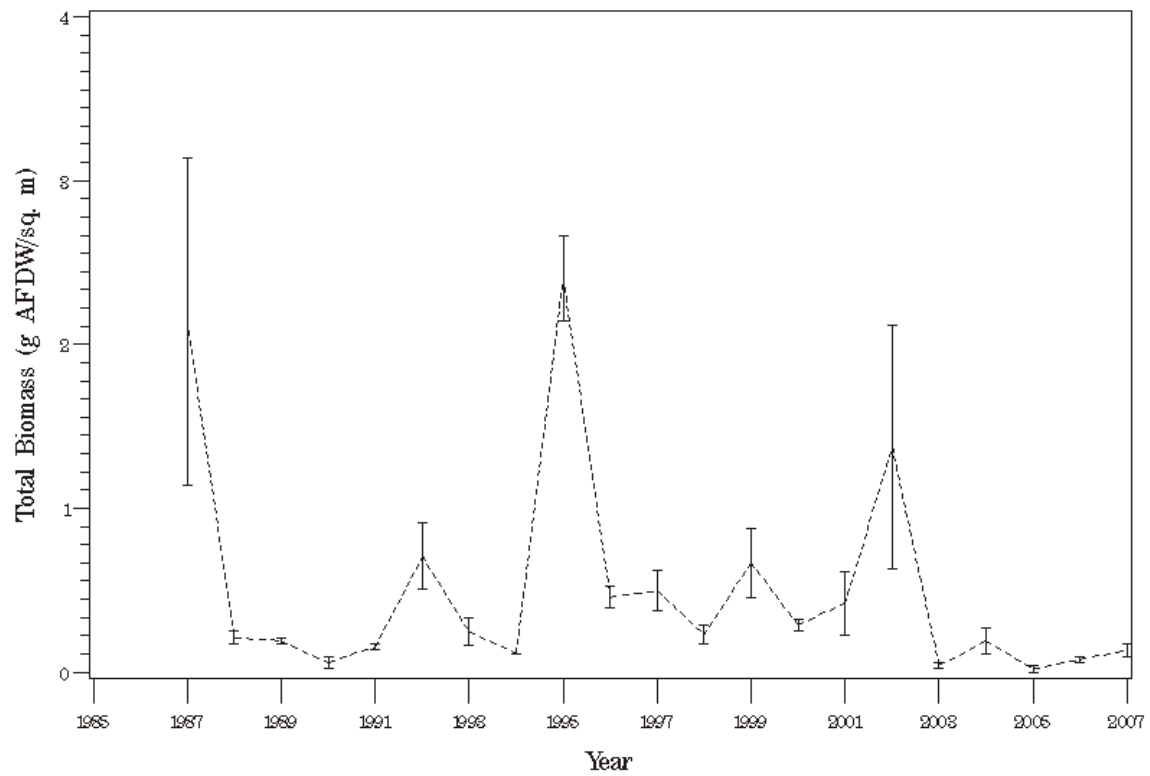


Figure L123. Plot of total benthic community biomass at station LE3.4 for 1985 through 2007.

## LE3.4 (4-R)

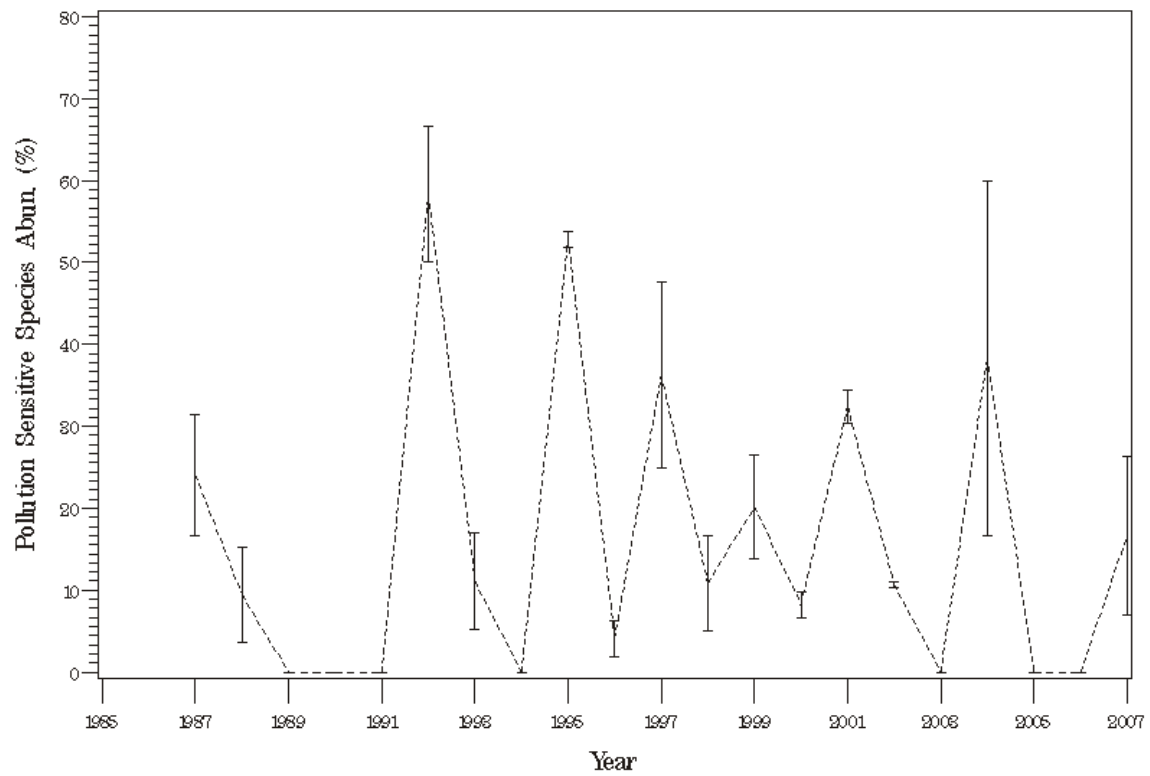


Figure L124. Plot of pollution sensitive species abundance at station LE3.4 for 1985 through 2007.

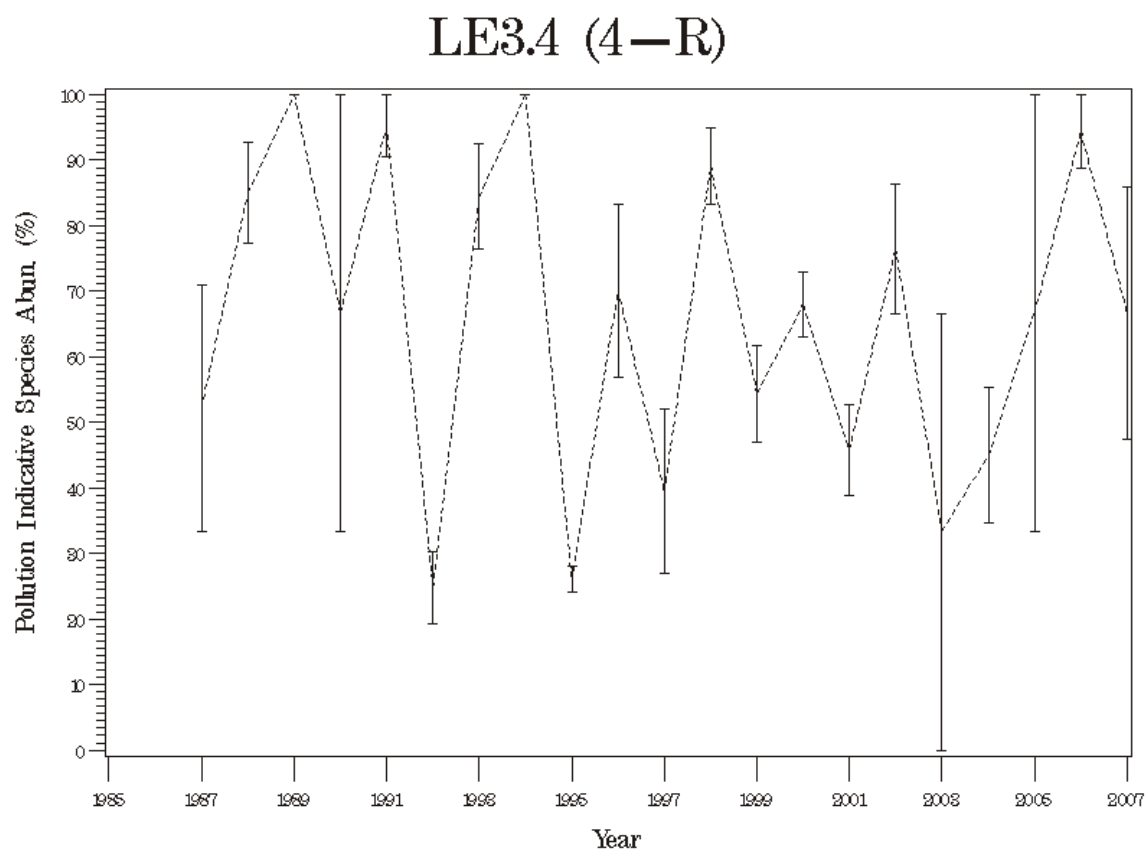


Figure L125. Plot of pollution indicative species abundance at station LE3.4 for 1985 through 2007.

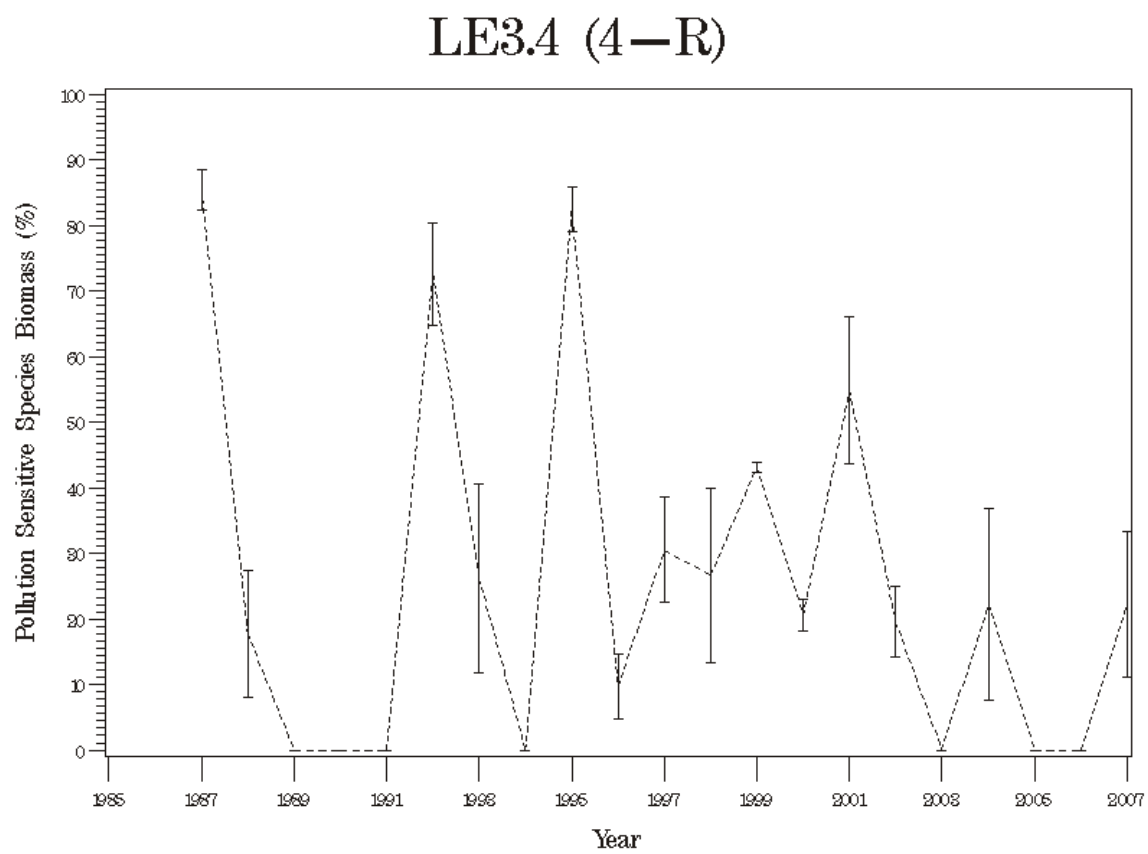


Figure L126. Plot of pollution sensitive species biomass at station LE3.4 for 1985 through 2007.

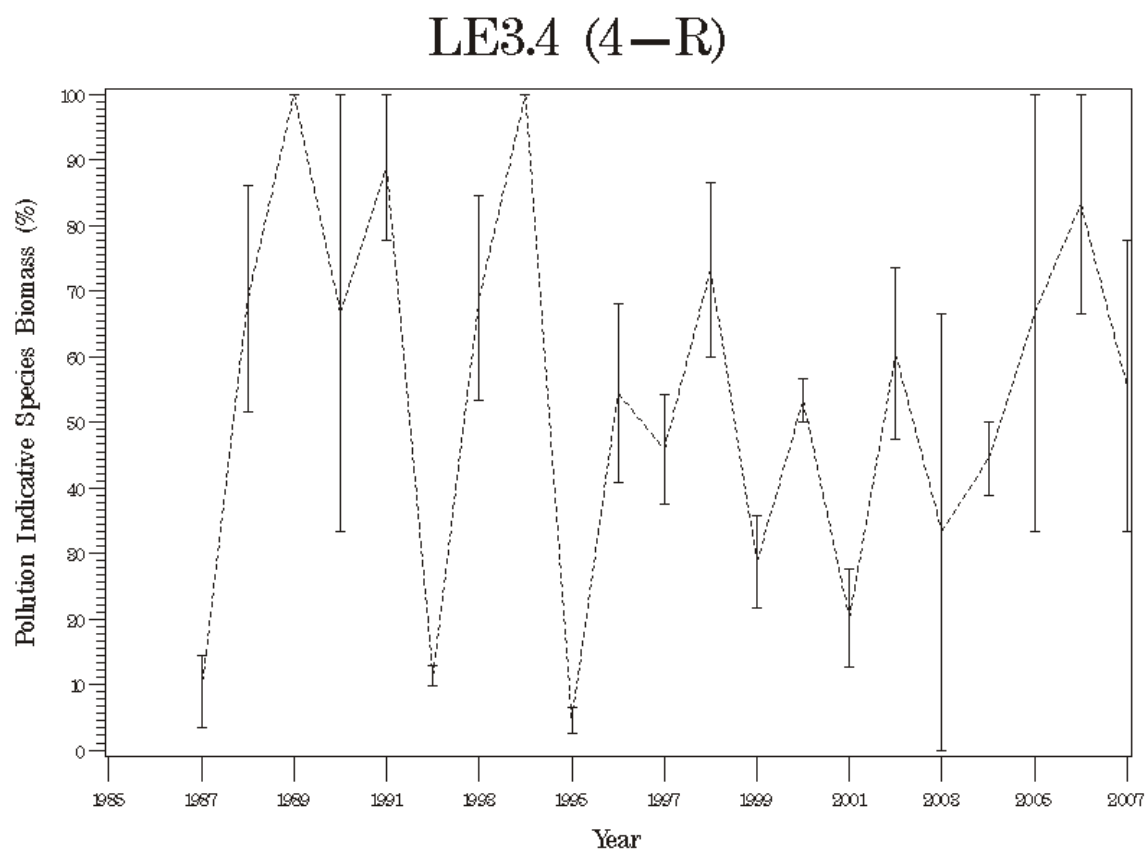


Figure L127. Plot of pollution indicative species biomass at station LE3.4 for 1985 through 2007.

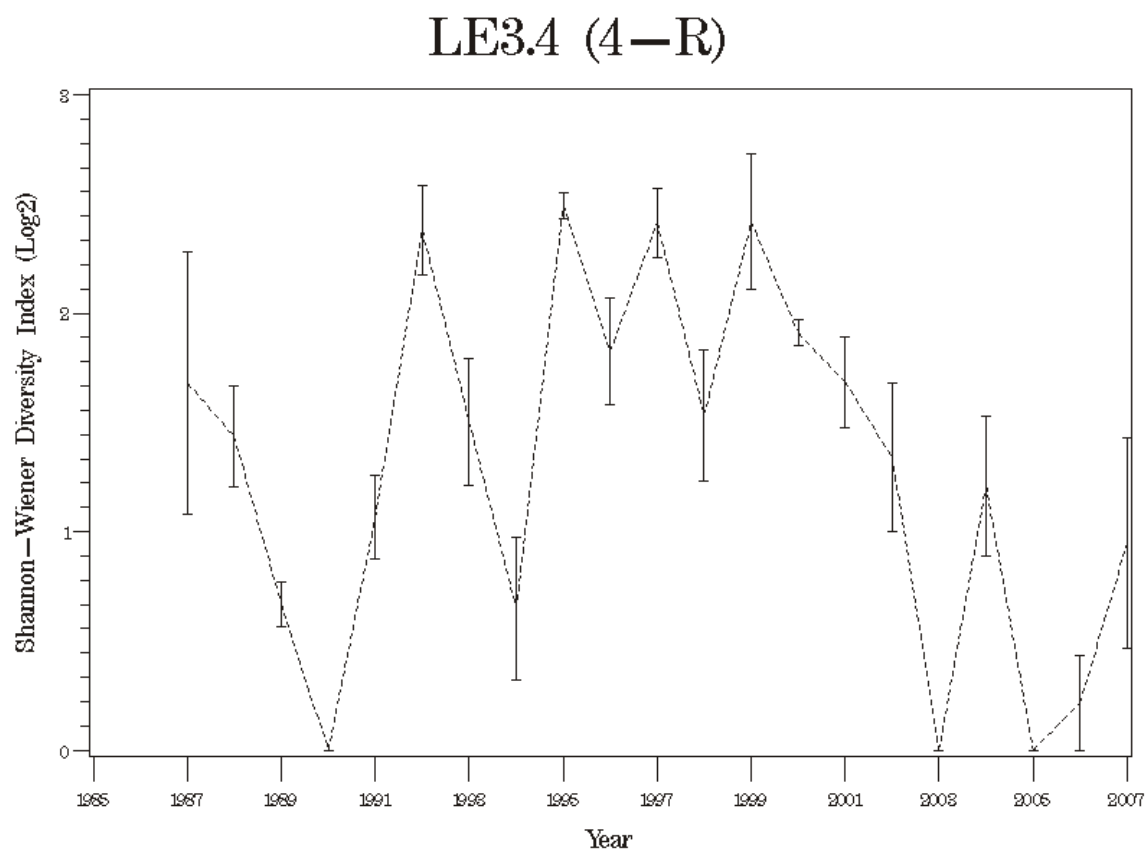


Figure L128. Plot of Shannon-Weiner diversity index at station LE3.4 for 1985 through 2007.