

Figure 8-1. Locations of Belmar Borrow Areas.

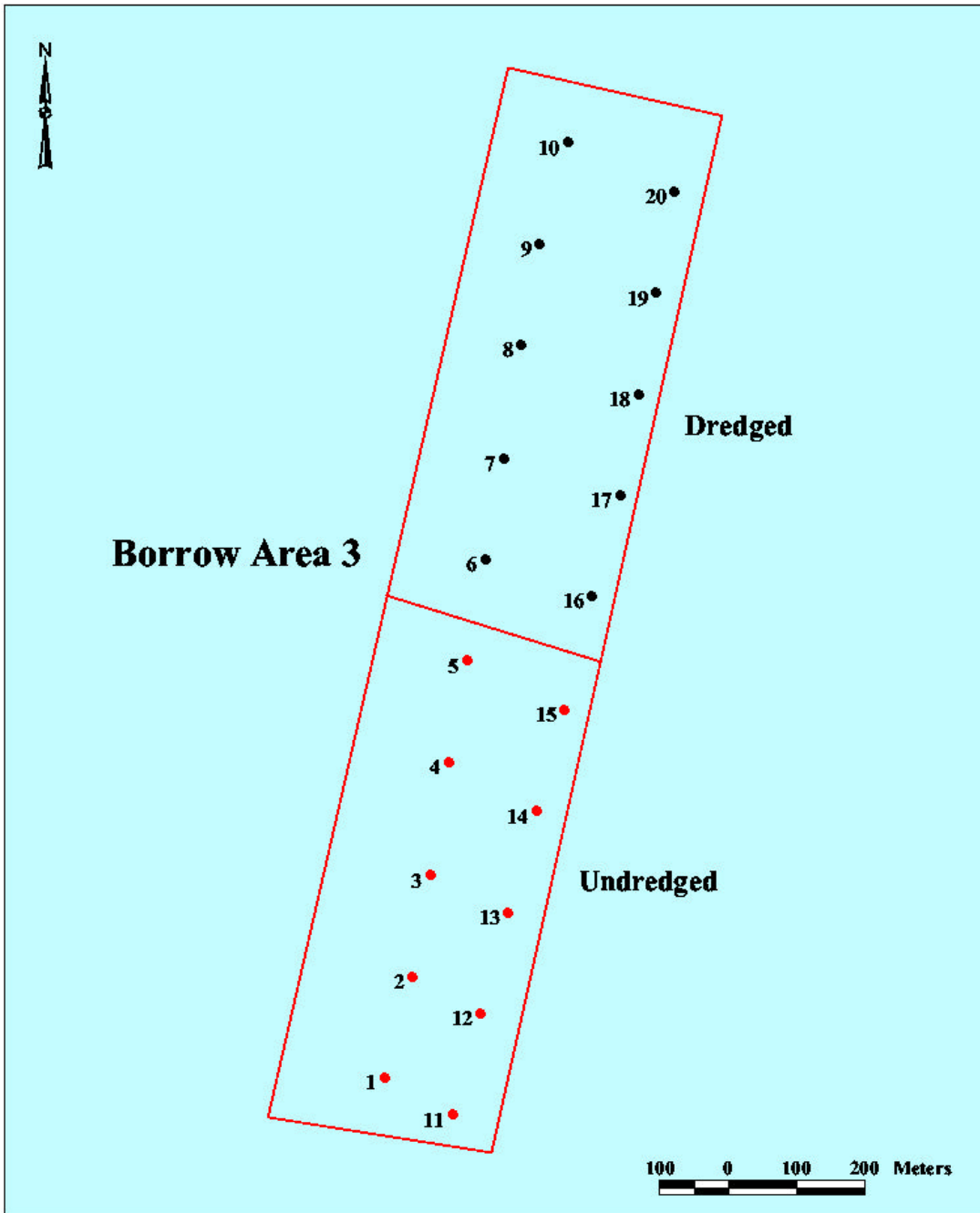


Figure 8-2. Locations of Belmar Borrow Area 3 Sampling Stations.

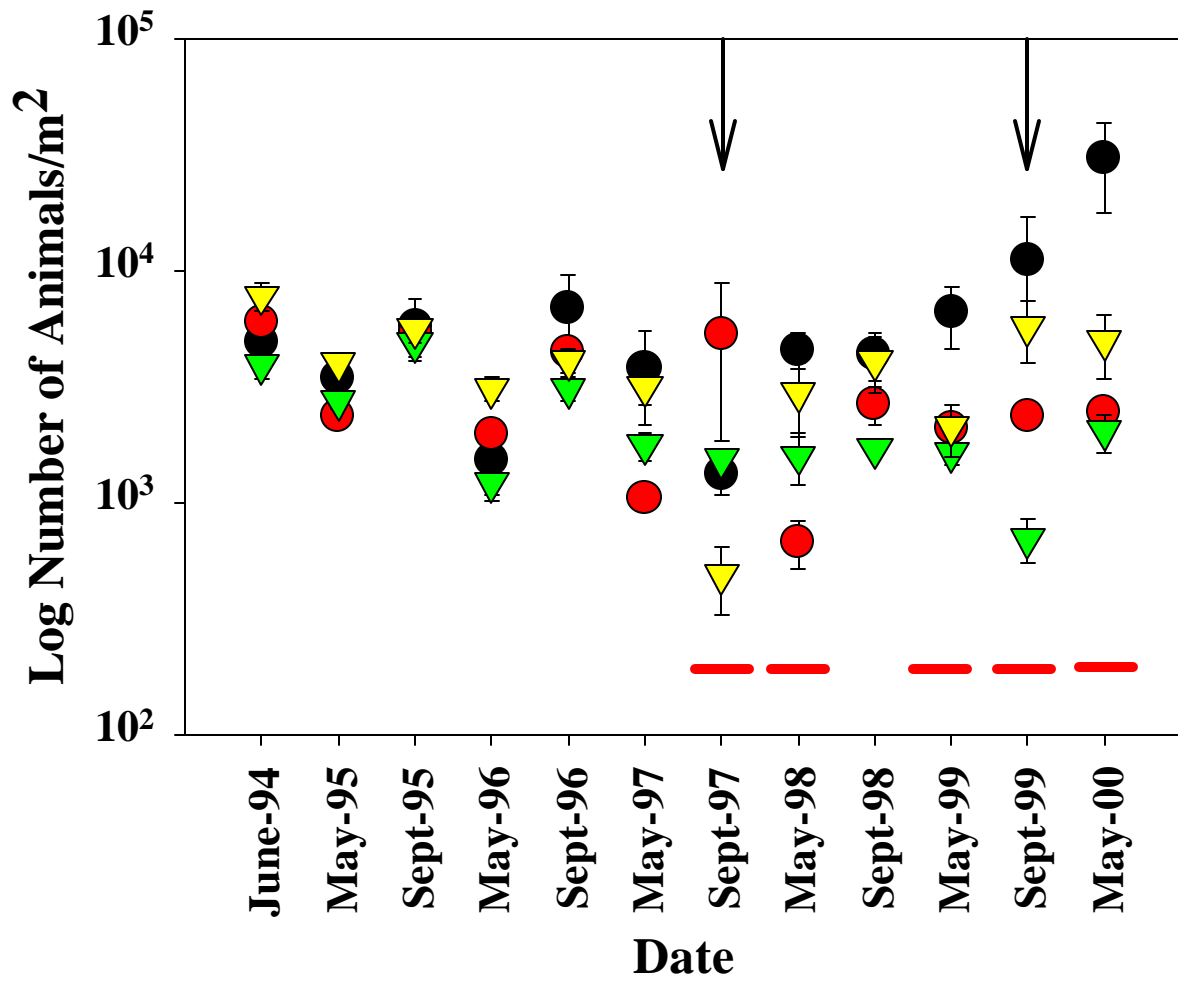


Figure 8-3. Offshore Borrow Area Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred, Red bars indicate where Tukey's test detected differences between means.

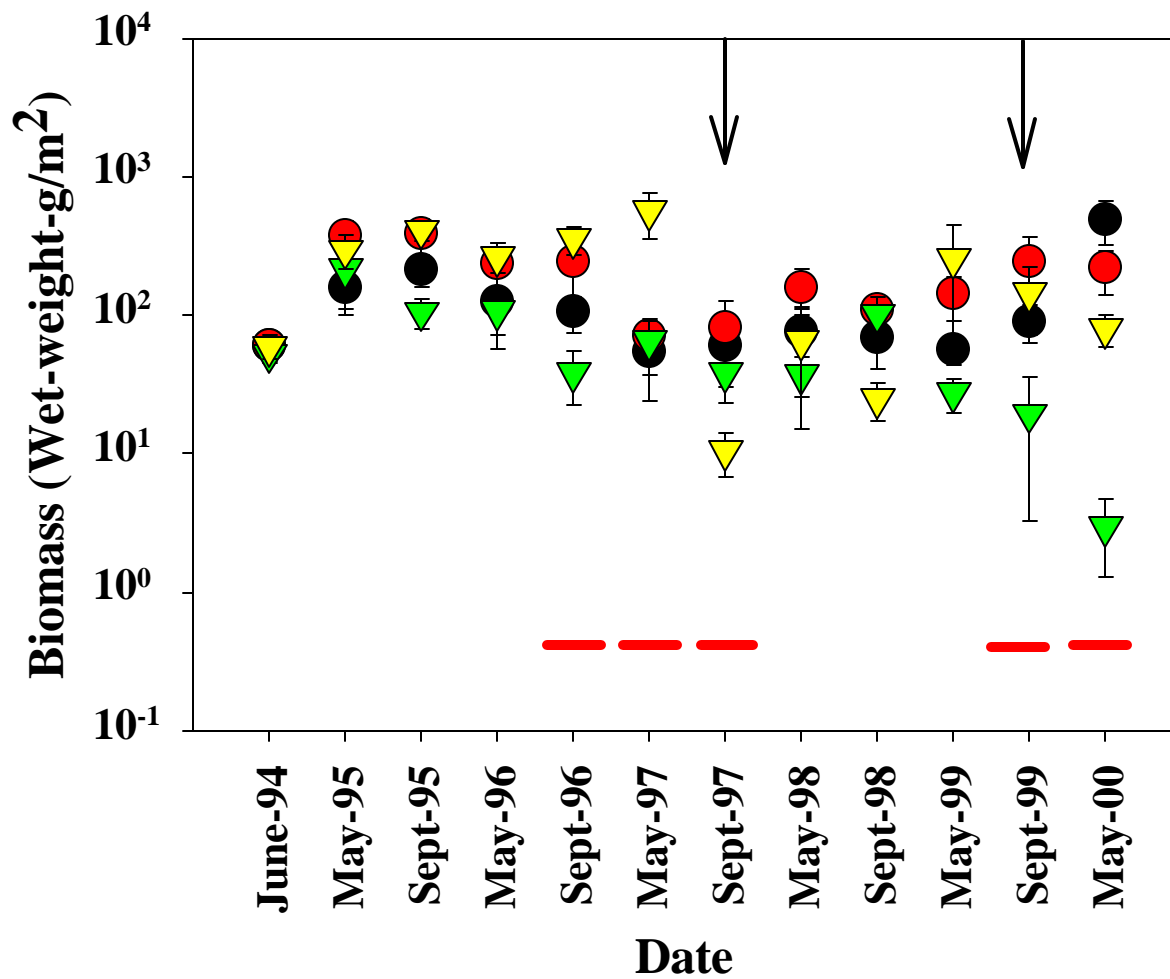


Figure 8-4. Offshore Borrow Area Biomass (Mean  $\text{g/m}^2 \pm \text{SE}$ ). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred, Red bars indicate where Tukey's test detected differences between means.

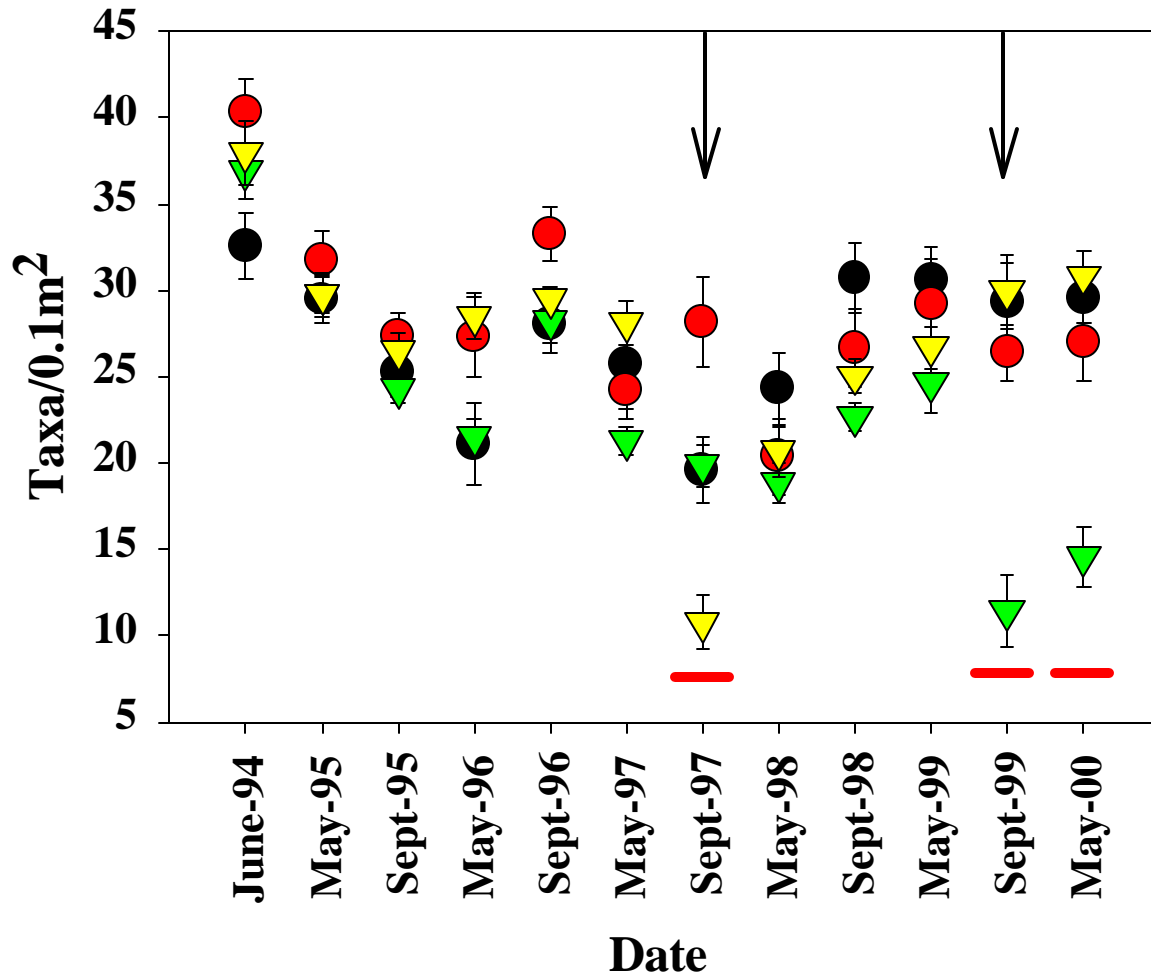


Figure 8-5. Offshore Borrow Area Taxa Richness (Mean Taxa/Core  $\pm$  SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred, Red bars indicate where Tukey's test detected differences between means.

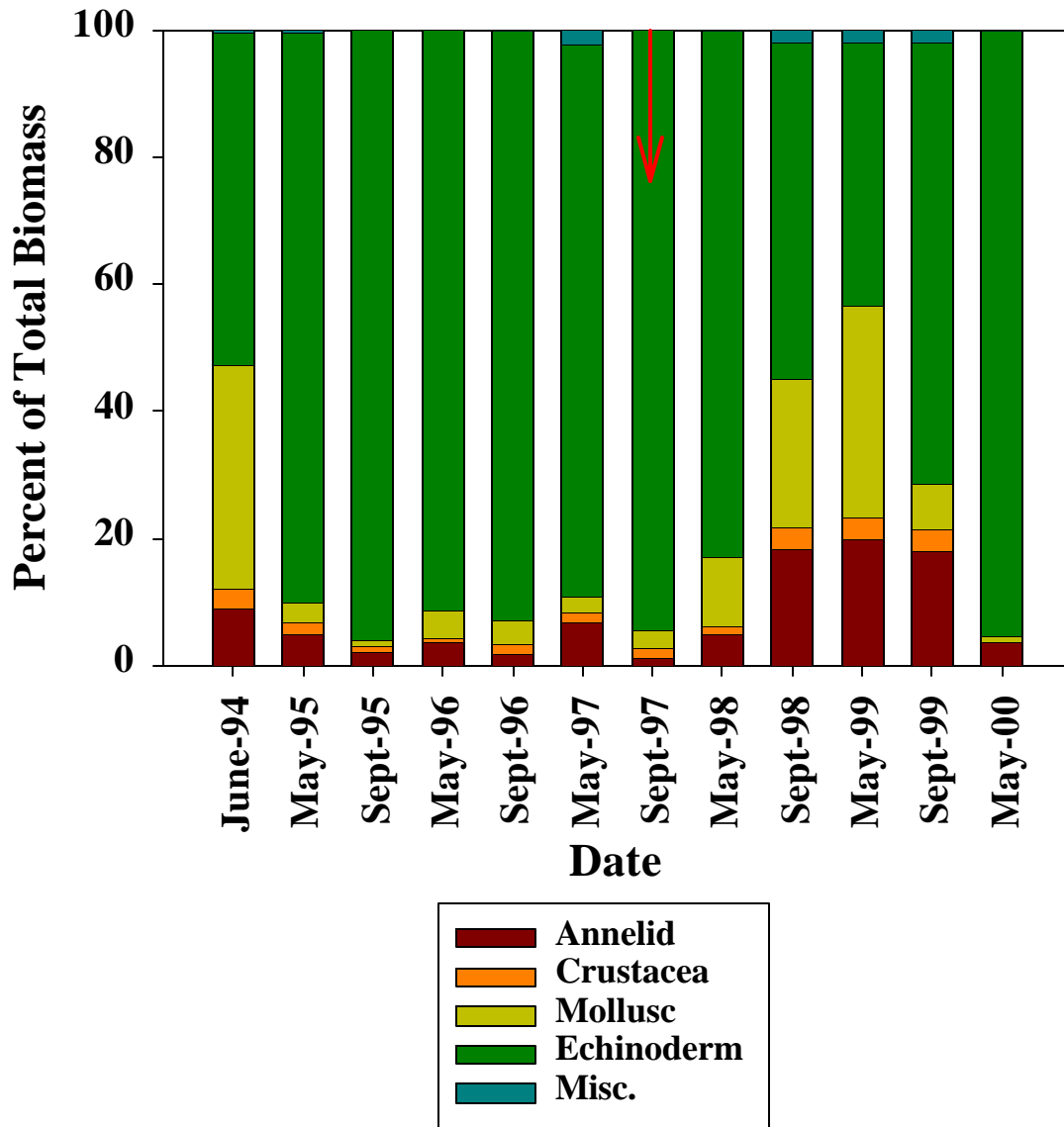


Figure 8-6. Biomass Composition of Borrow Area 3- Dredged Portion. Arrow indicates when dredging occurred.

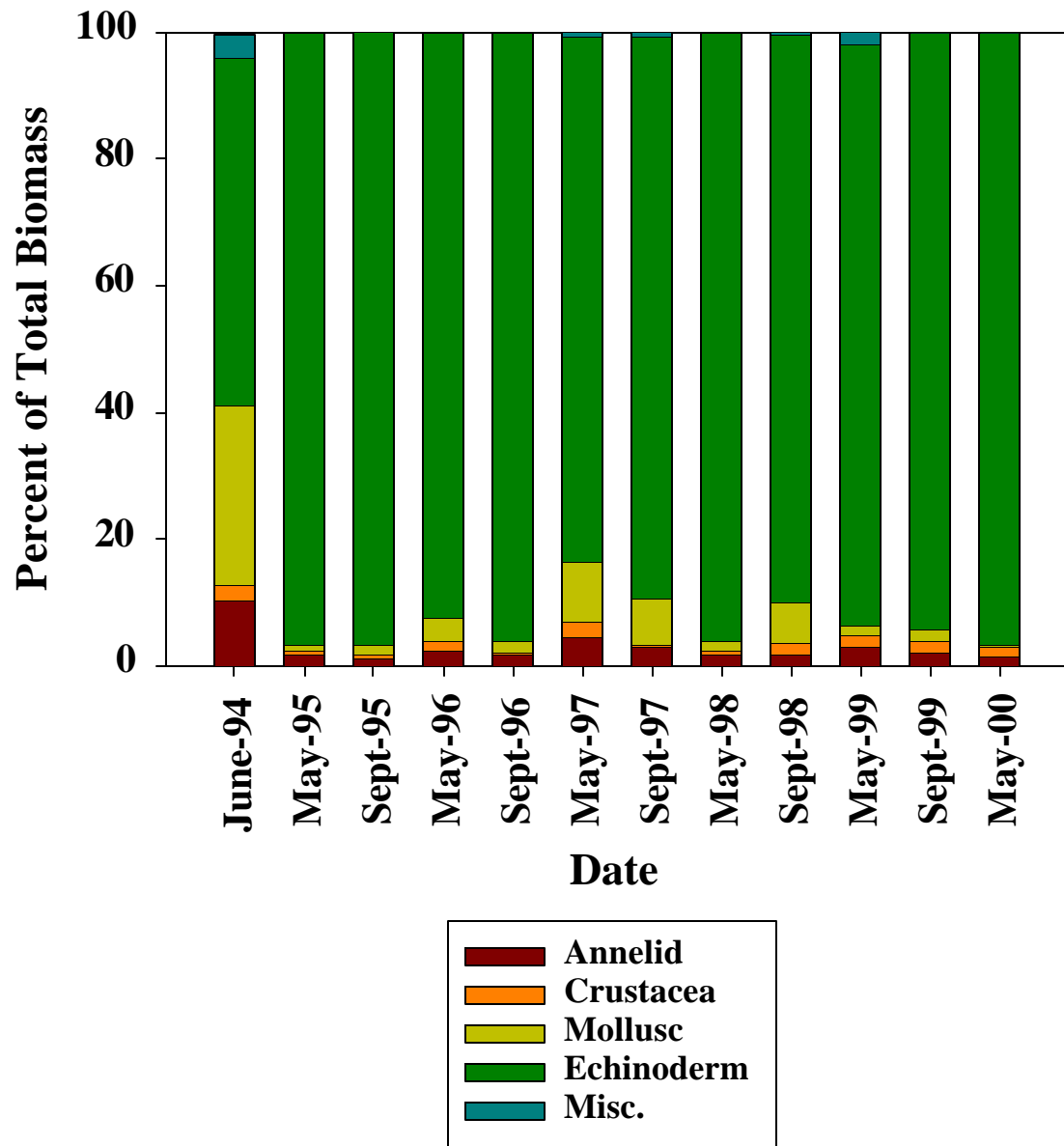


Figure 8-7. Biomass Composition of Borrow Area 3- Undredged Portion.

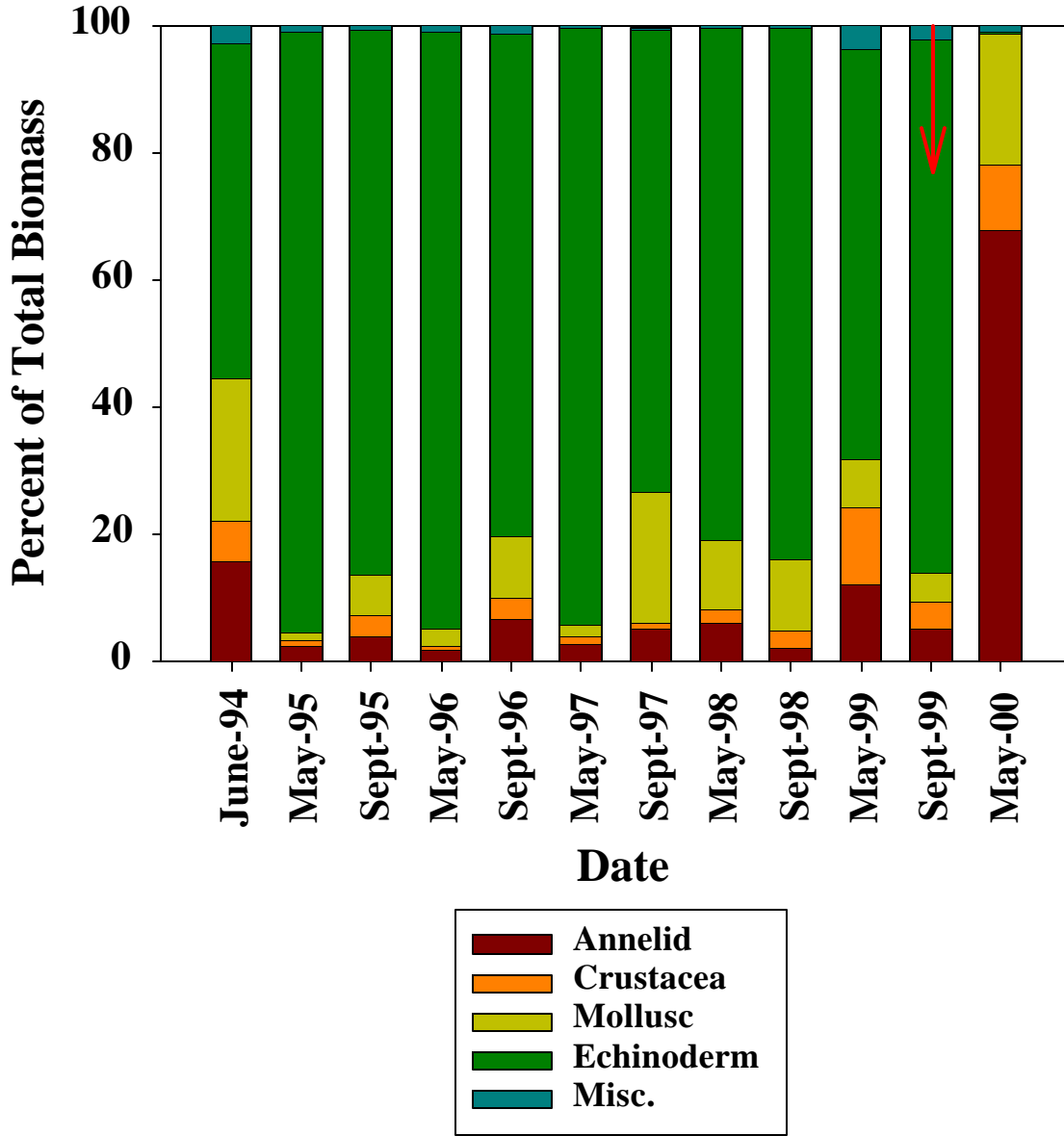


Figure 8-8. Biomass Composition of Borrow Area 5. Arrow indicates when dredging occurred.



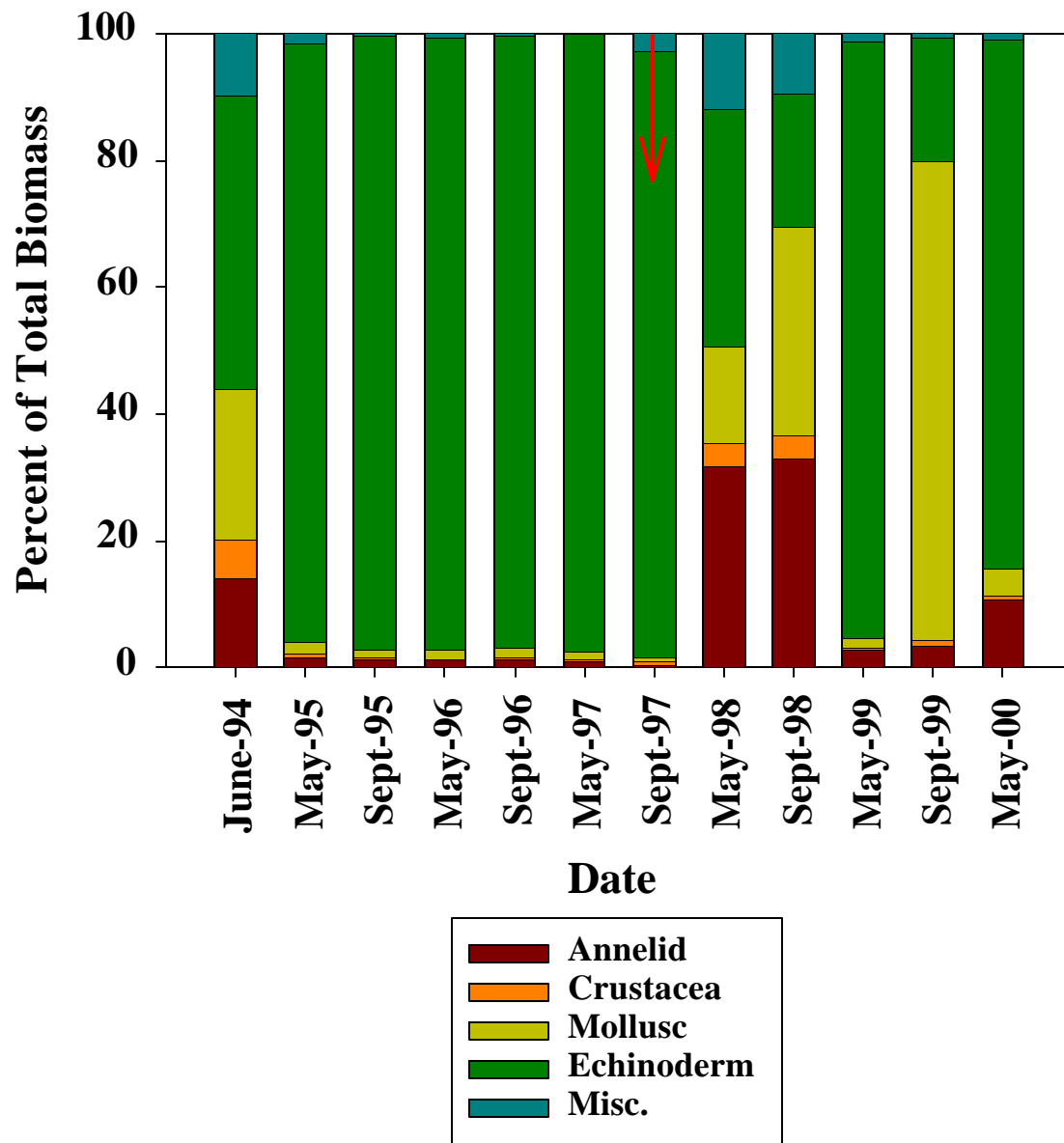


Figure 8-9. Biomass Composition of Borrow Area 6. Arrow indicates when dredging occurred.

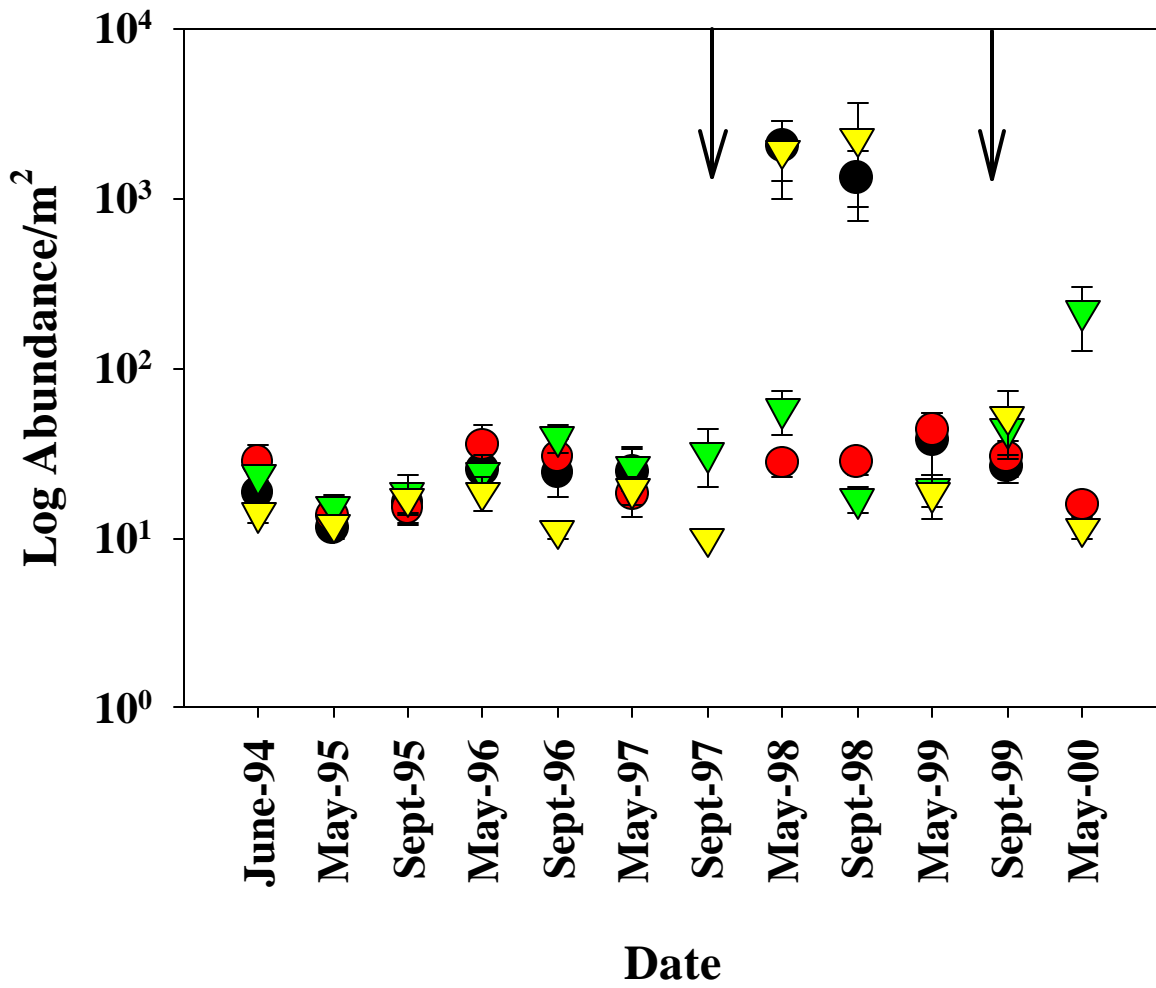


Figure 8-10. *Spiophanes bombyx* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

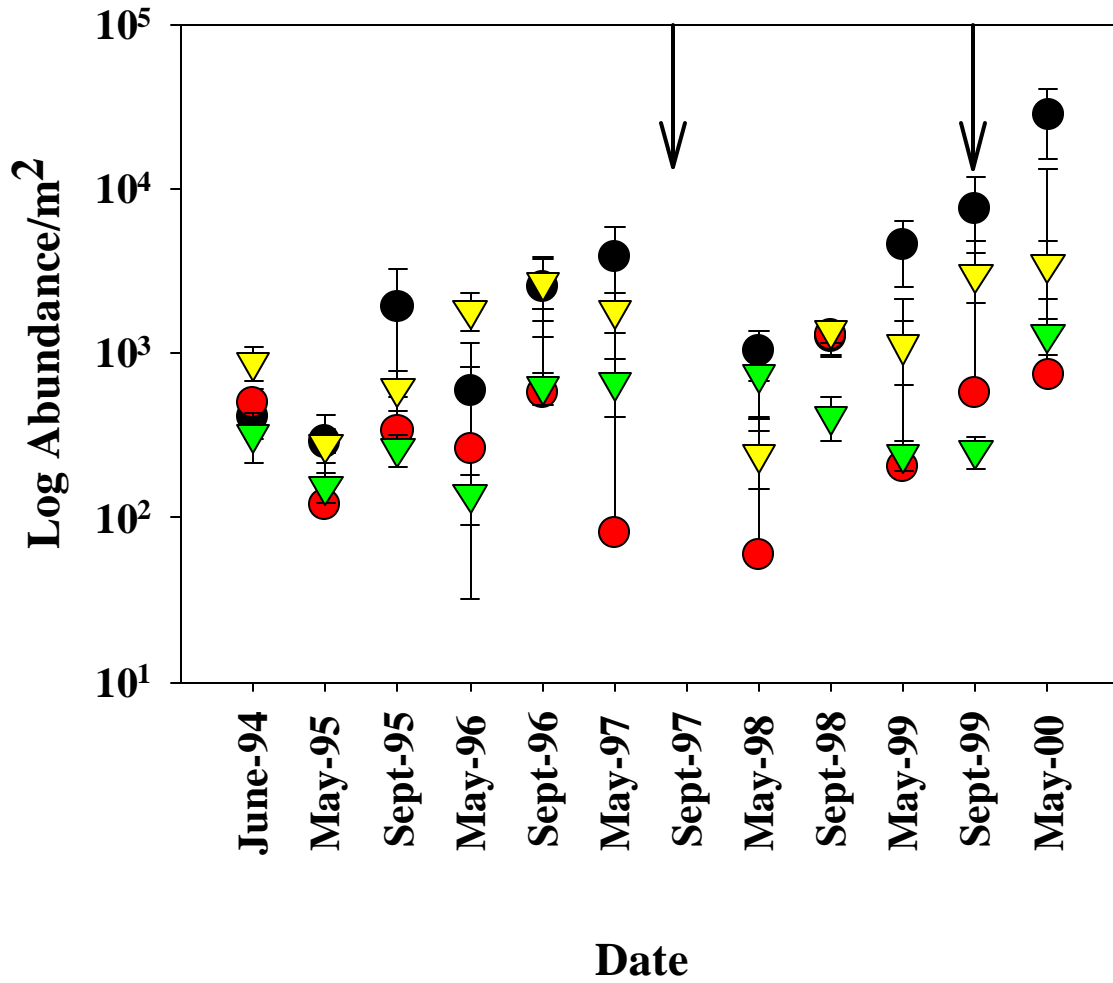


Figure 8-11. *Polygordius* (LPIL) Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

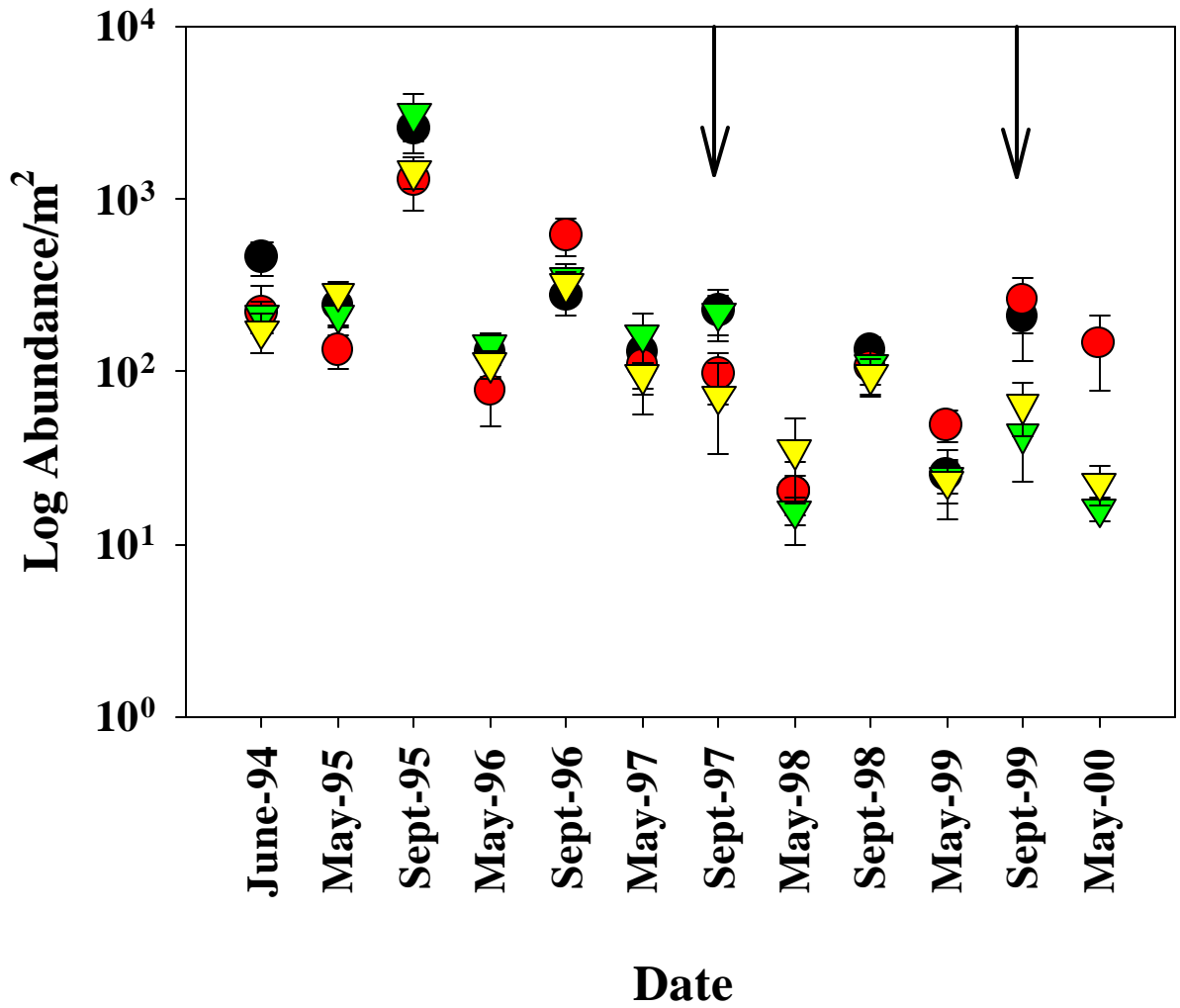


Figure 8-12. *Pseudunciola obliquua* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

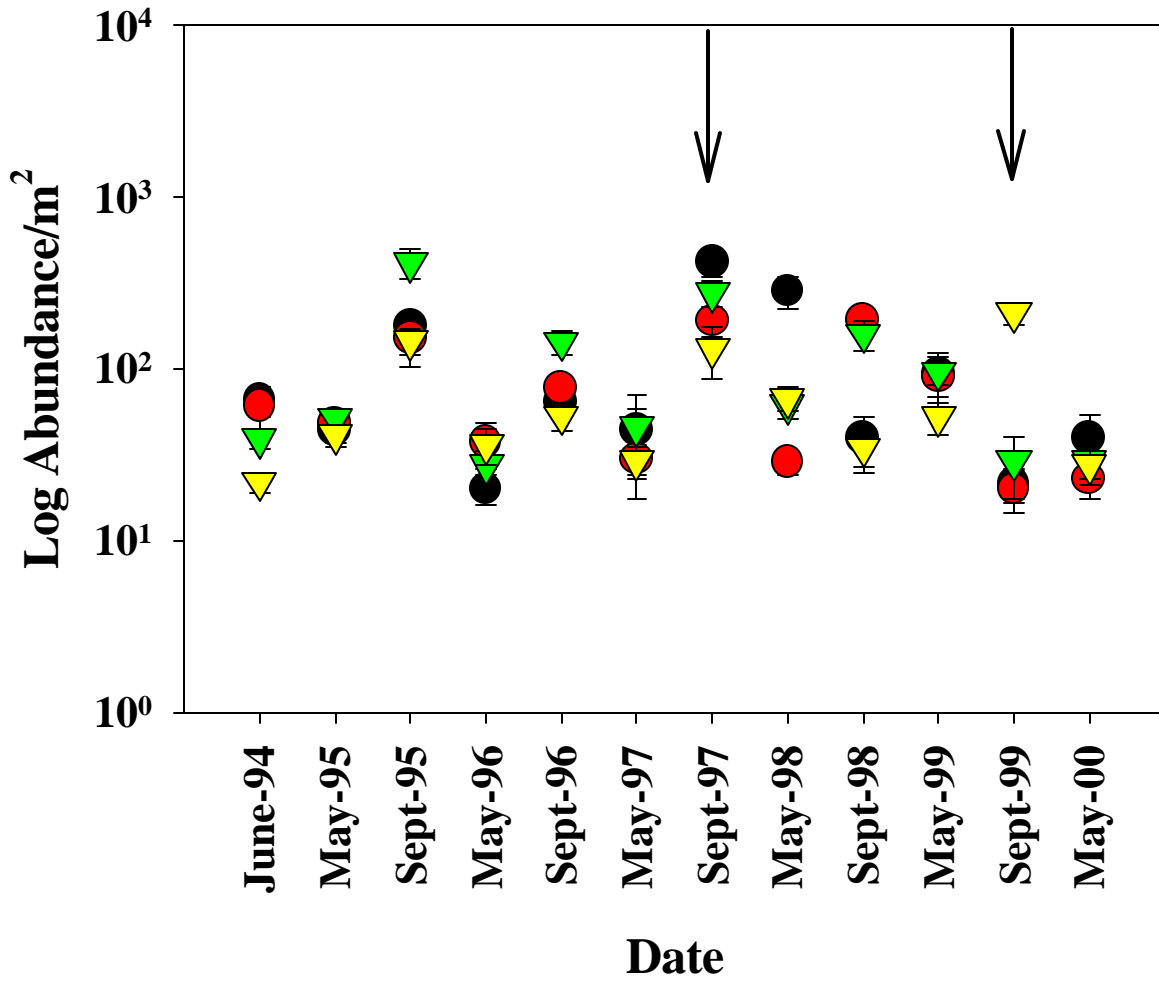


Figure 8-13. *Spisula solidissima* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

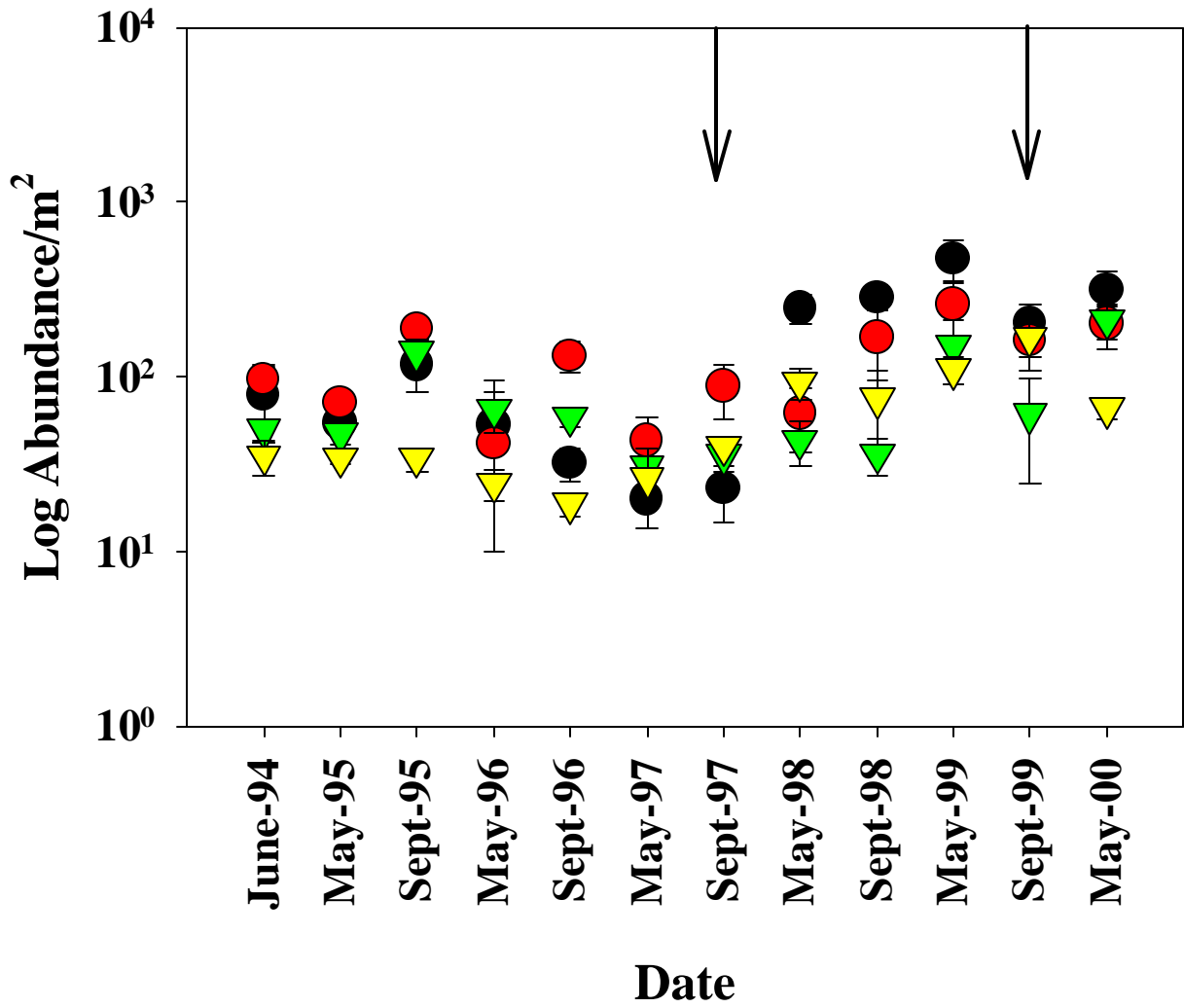


Figure 8-14. *Tellina agilis* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

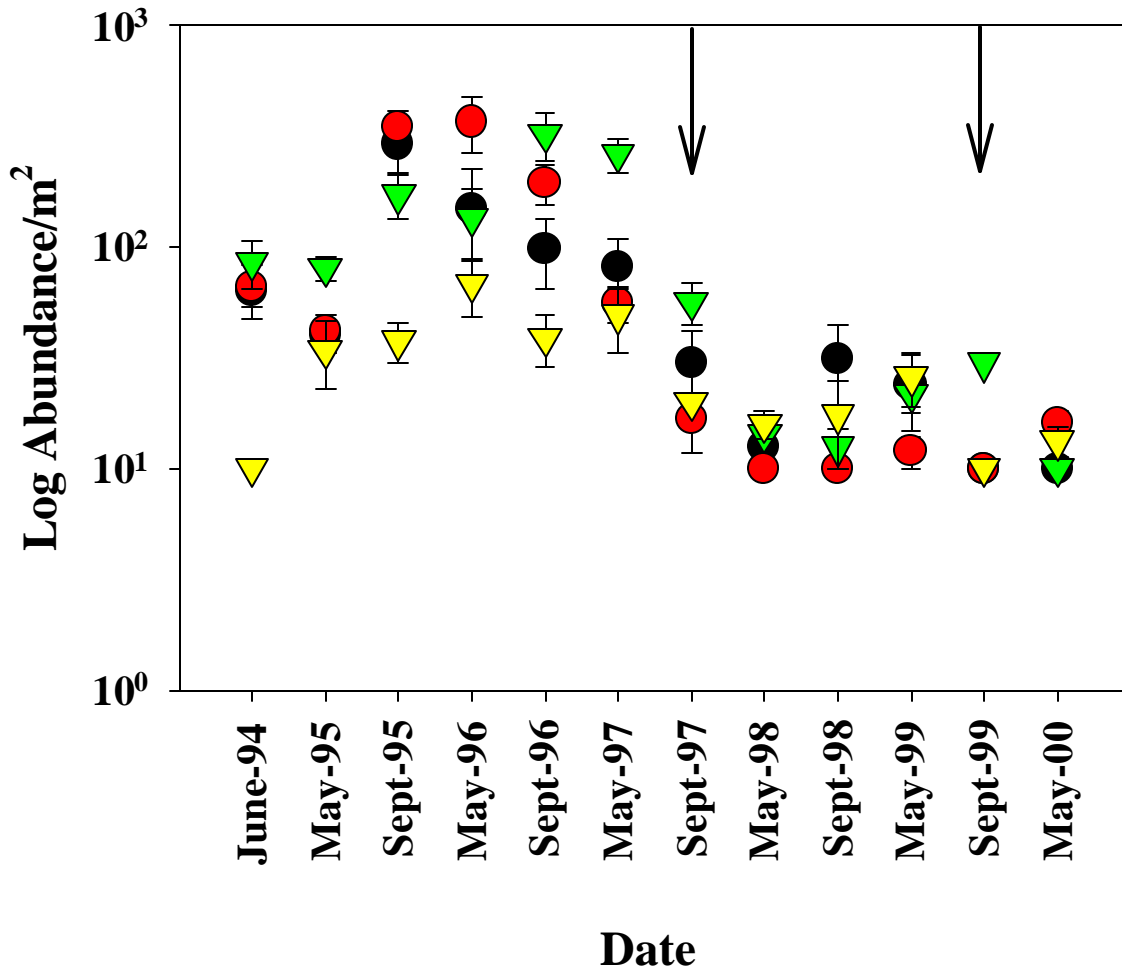


Figure 8-15. *Magelona papillicornis* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

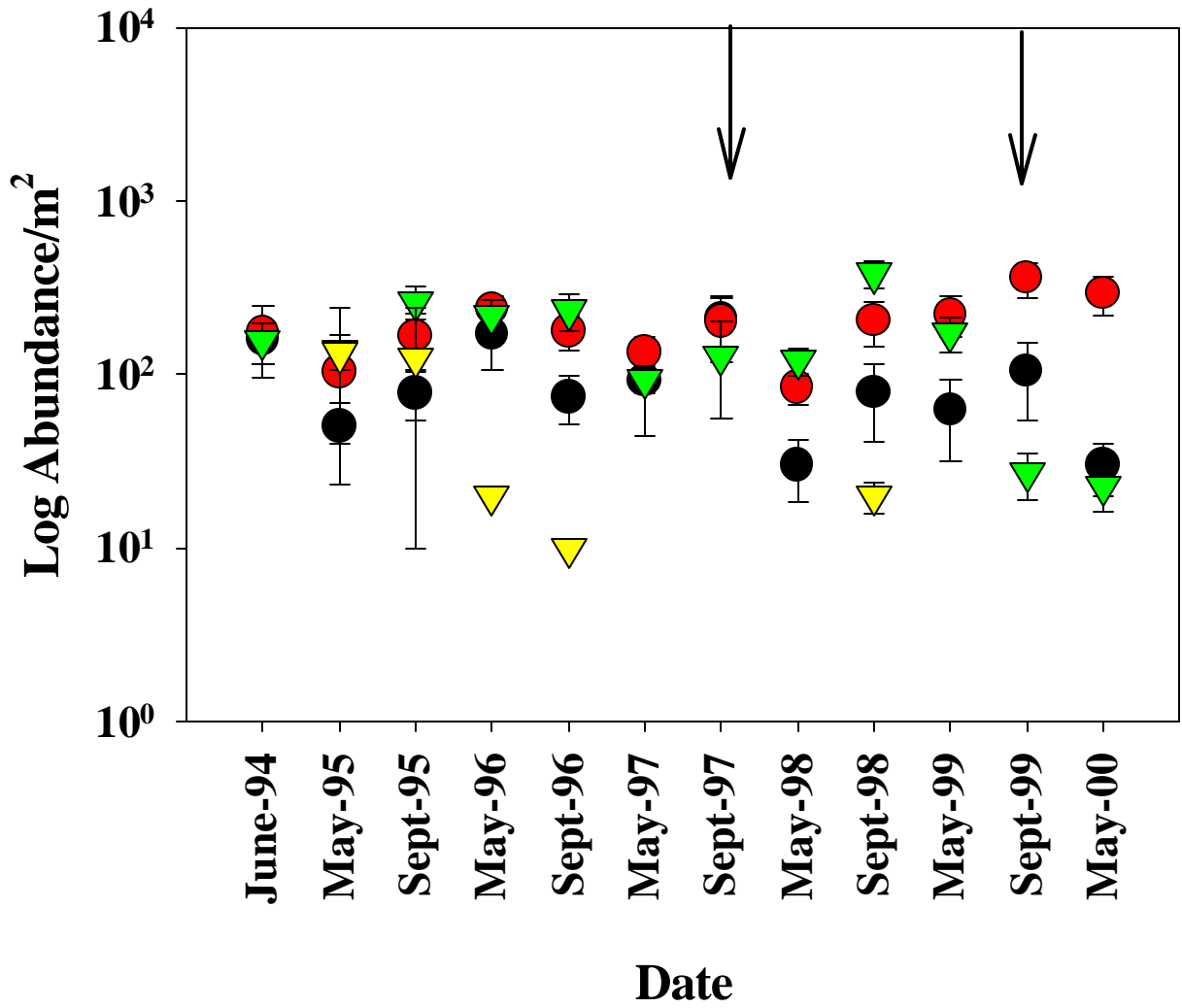


Figure 8-16. *Acanthohasutorius millsii* Abundance (Mean No. Animals/m<sup>2</sup> + SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.



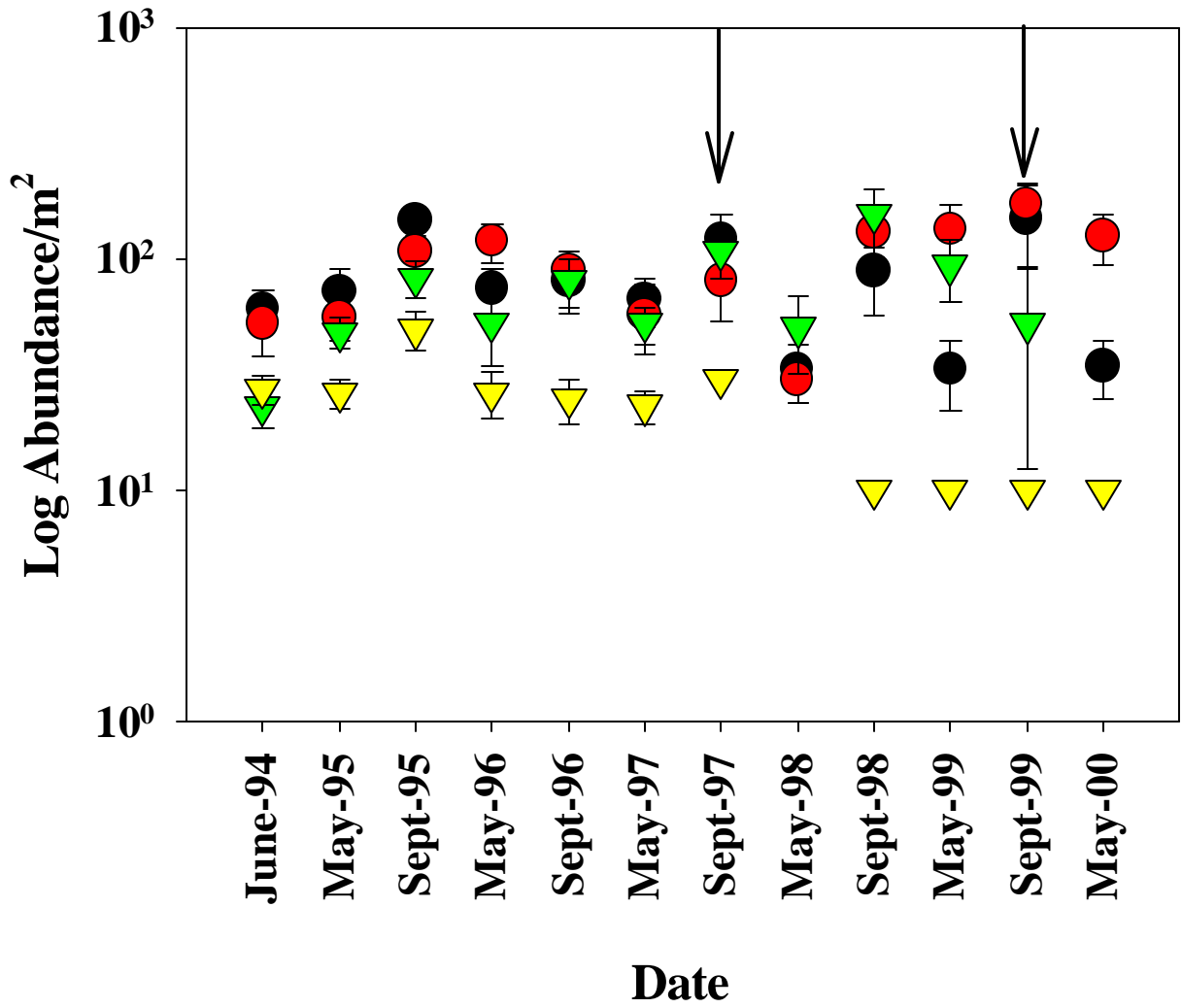


Figure 8-17. *Rhexopynius hudsoni* Abundance (Mean No. Animals/m<sup>2</sup> + SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

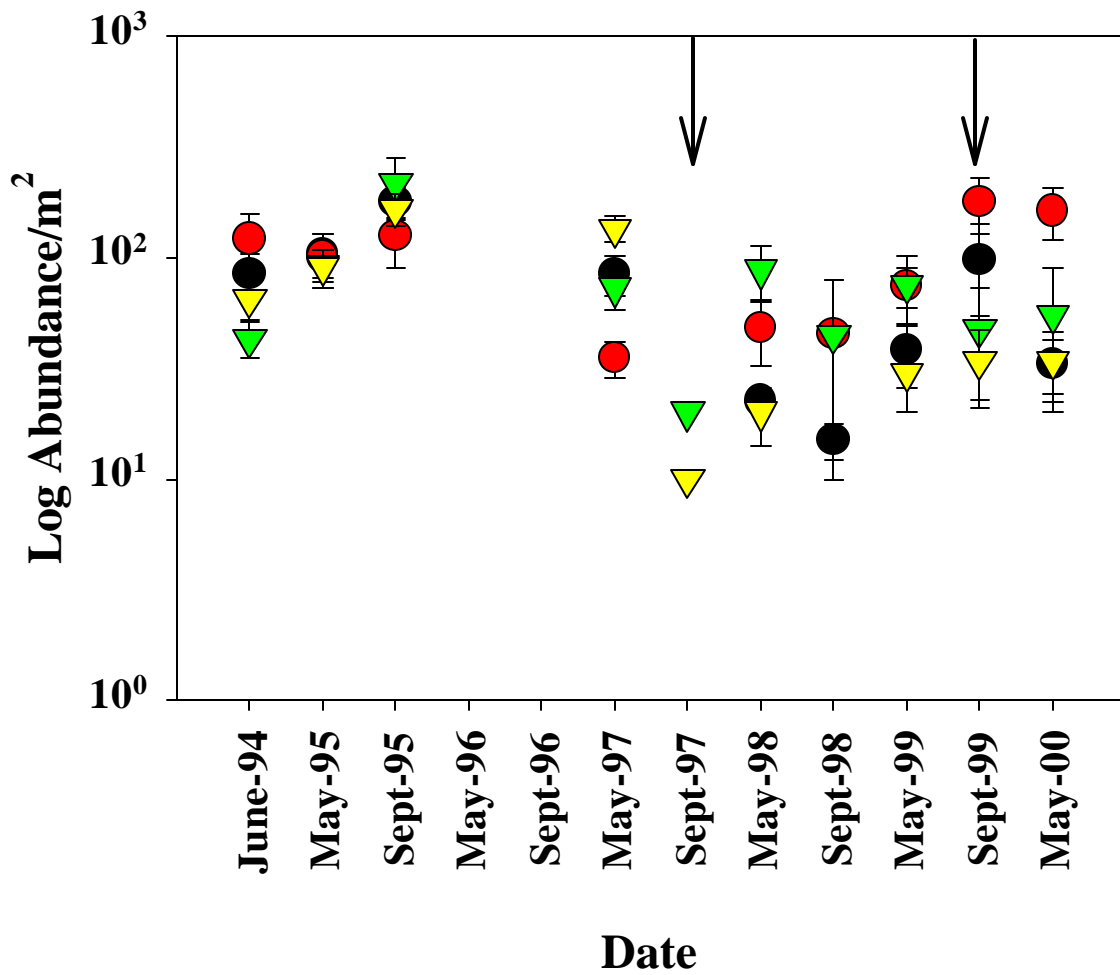


Figure 8-18. *Parahaustorius wigleyi* Abundance (Mean No. Animals/m<sup>2</sup>  $\pm$  SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

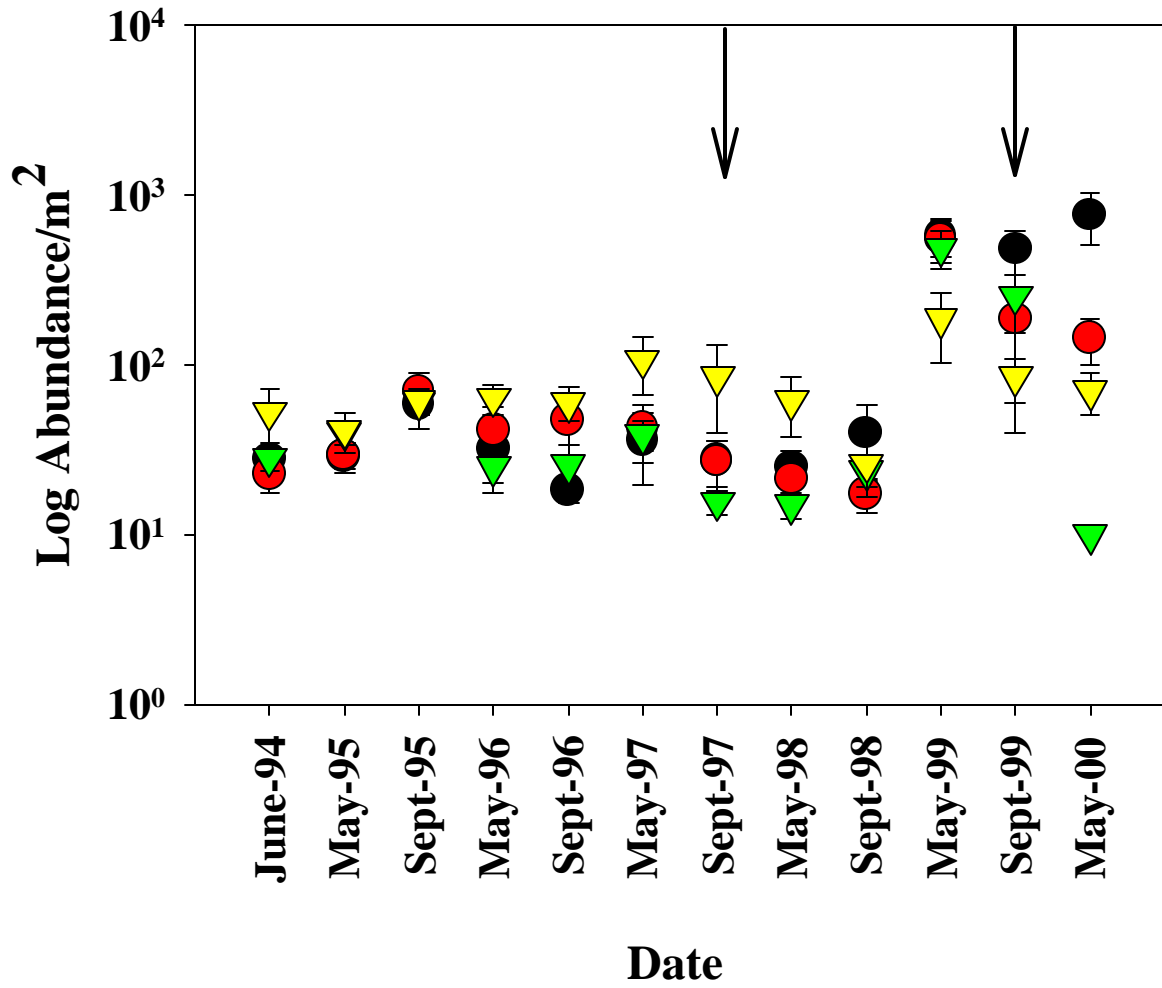


Figure 8-19. *Echinarachnius parma* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

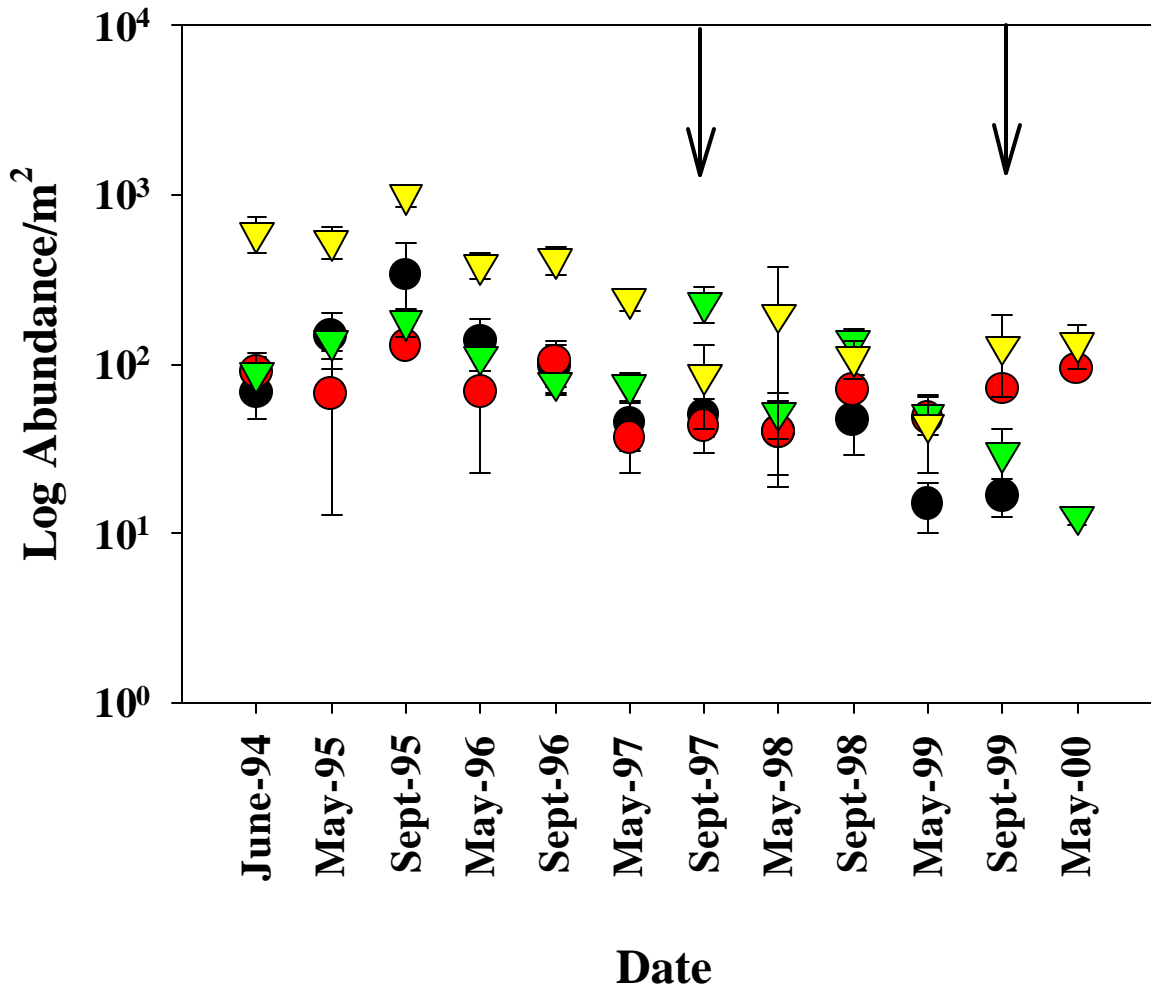


Figure 8-20. *Tanaissus psammophilus* Abundance (Mean No. Animals/m<sup>2</sup> + SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

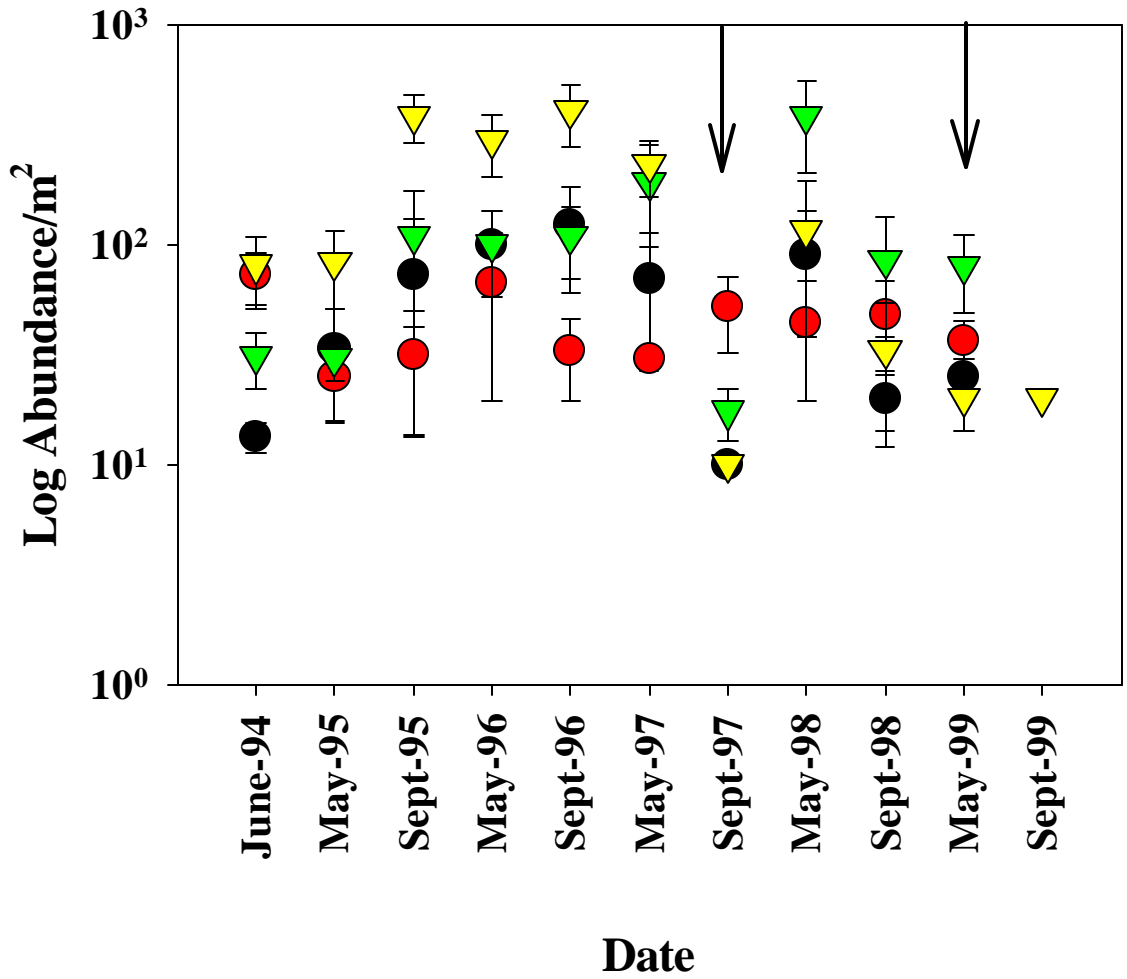


Figure 8-21. Oligochaete Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

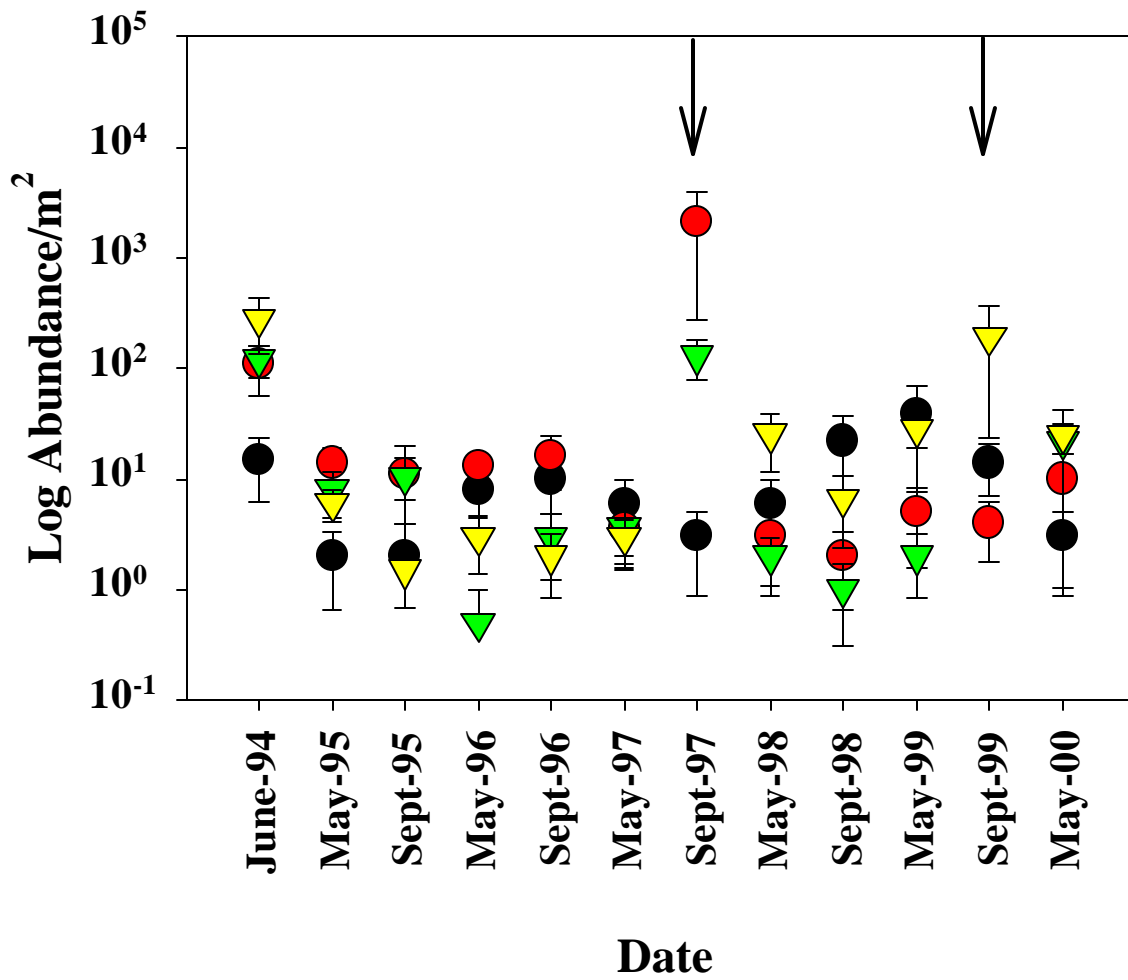


Figure 8-22. *Nucula proxima* Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

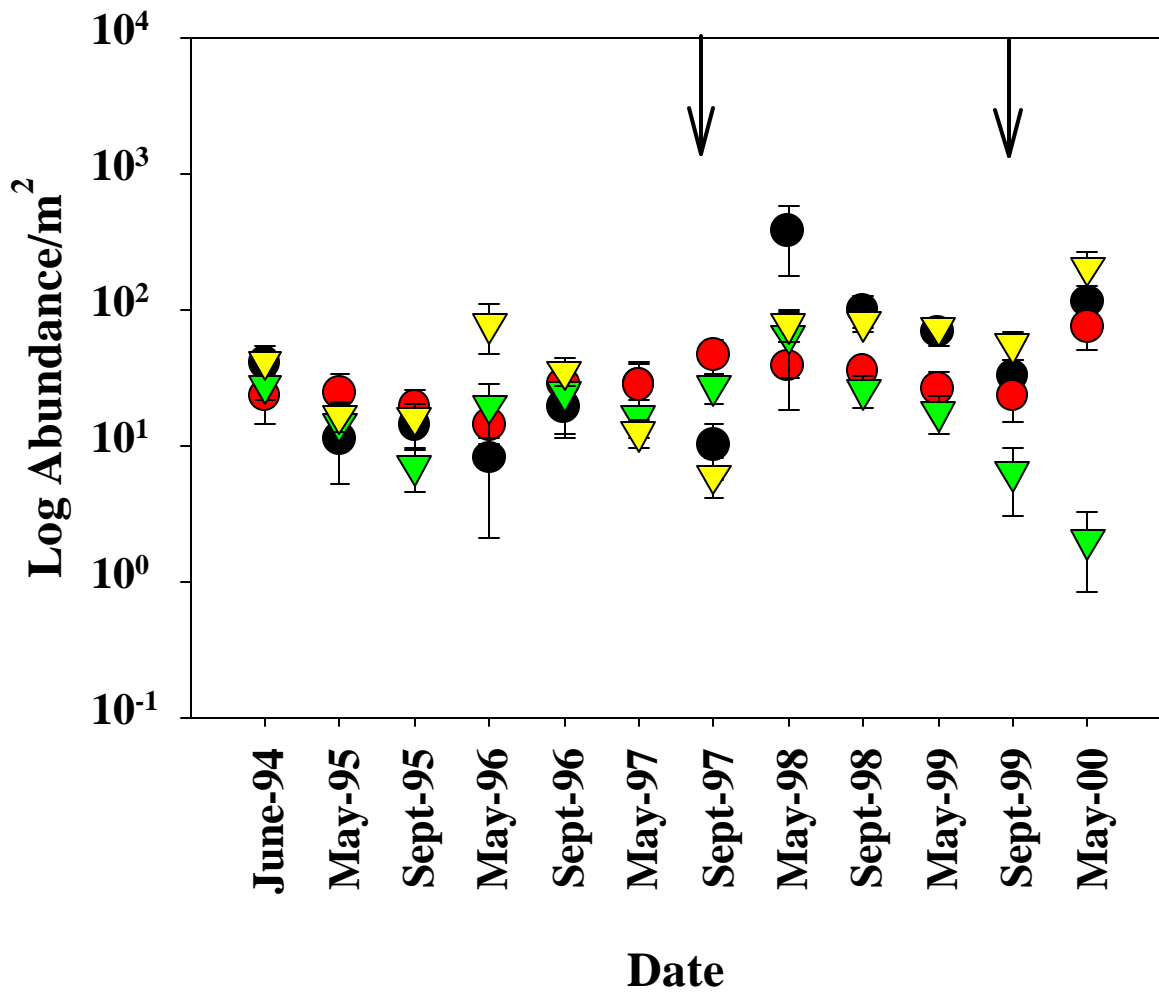


Figure 8-23. Rhynchocoela (LPIL) Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

### Borrow Area NMDS

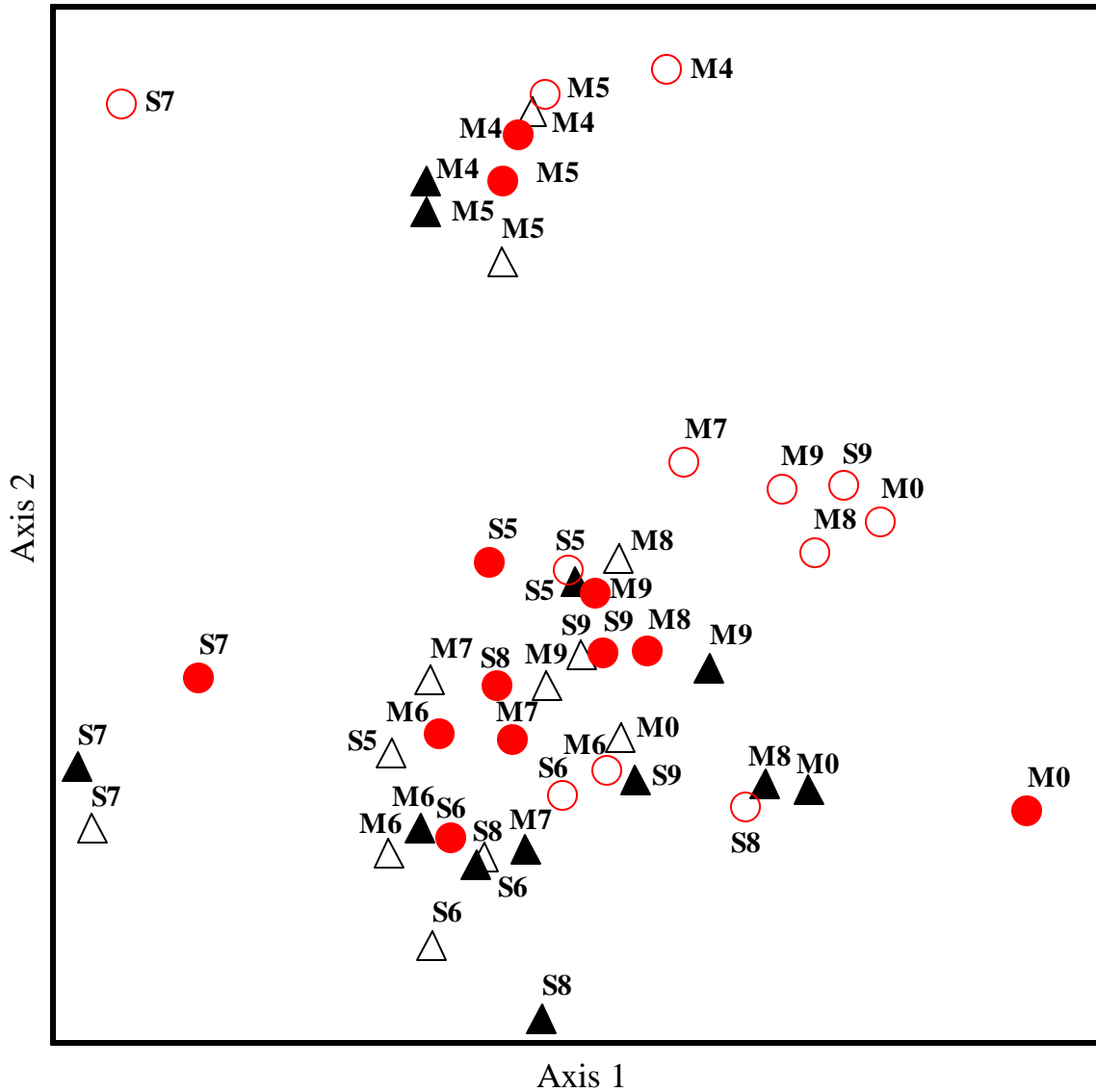


Figure 8-24. Nonmetric Dimensional Scaling (NMDS) Plot for Offshore Borrow Area Data: Axes 1 & 2. Stress = 0.11 for 3 axes. Filled triangle = BBA3-Dredged, Open triangle = BBA3- Undredged, Filled circle = BBA5, Open circle = BBA6; M = May, S = September; 4 = 1994, 5 = 1995. 6 = 1996, 7 = 1997, 8 = 1998, 9 = 1999, 0= 2000.



### Borrow Area NMDS

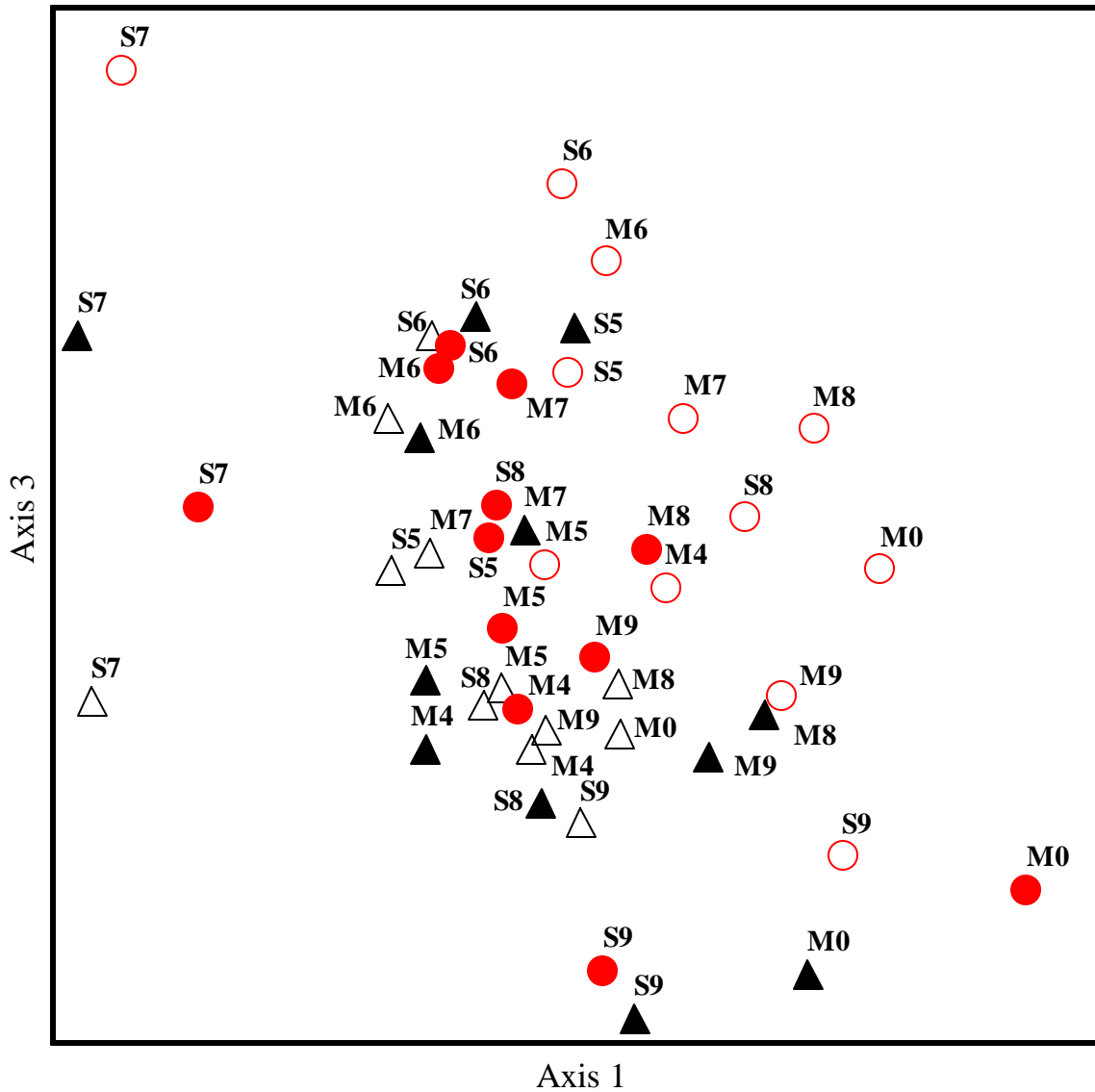


Figure 8-25. Nonmetric Dimensional Scaling (NMDS) Plot for Offshore Borrow Area Data: Axes 1 & 3. Stress = 0.11 for 3 axes. Filled triangle = BBA3-Dredged, Open triangle = BBA3- Undredged, Filled circle = BBA5, Open circle = BBA6; M = May, S = September; 4 = 1994, 5 = 1995. 6 = 1996, 7 = 1997, 8 = 1998, 9 = 1999, 0= 2000.

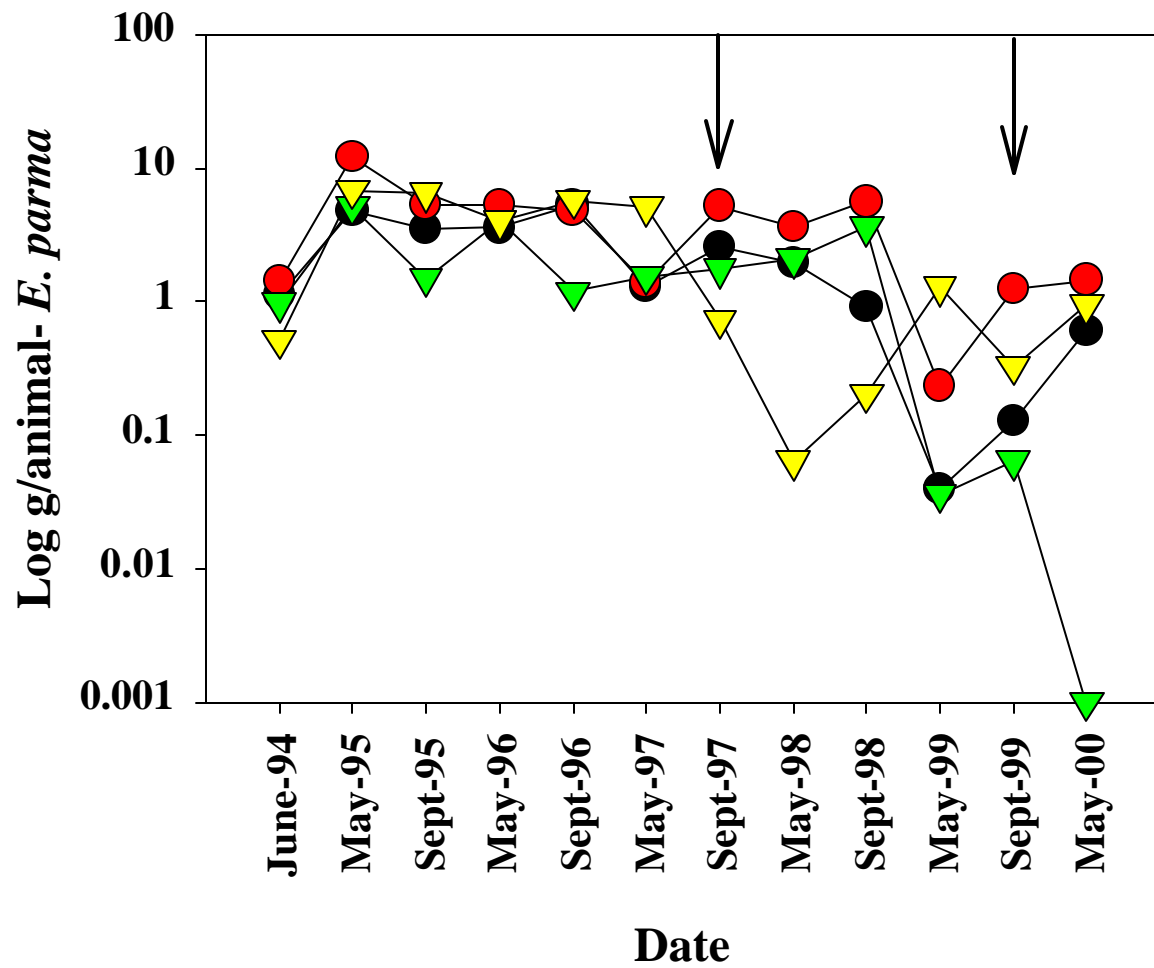


Figure 8-26. Average weight (g) per *Echinarachnius parma*. Black circle = BBA3-Dredged, Red circle = BBA3-Undredged, Green inverted triangle = BBA5, Yellow inverted triangle = BBA6. Arrows indicate when dredging occurred.

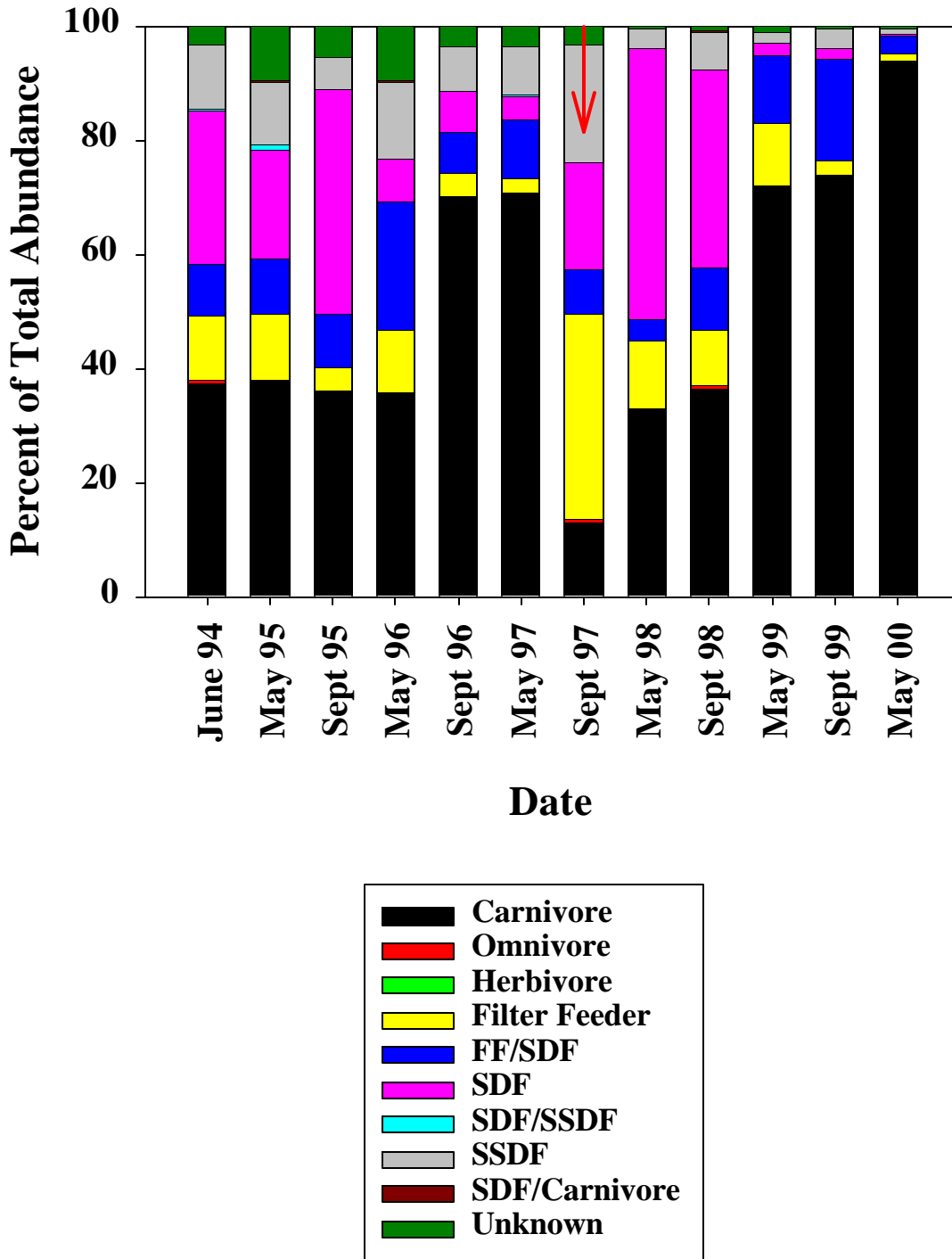


Figure 8-27. Borrow Area BBA3-Dredged Trophic Guilds. Arrows indicate when dredging occurred.

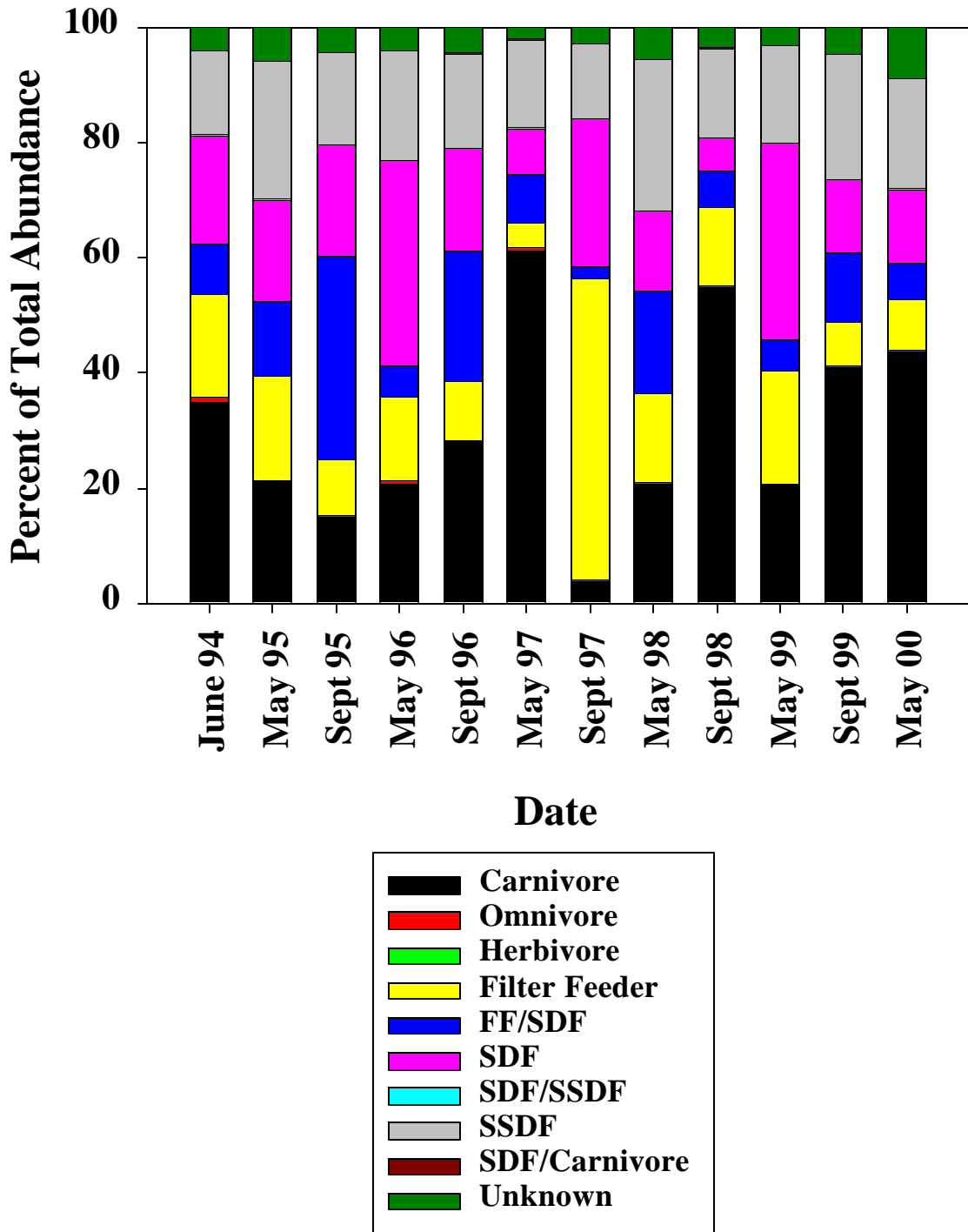


Figure 8-28. Borrow Area BBA3-Undredged Trophic Guilds. Arrows indicate when dredging occurred.

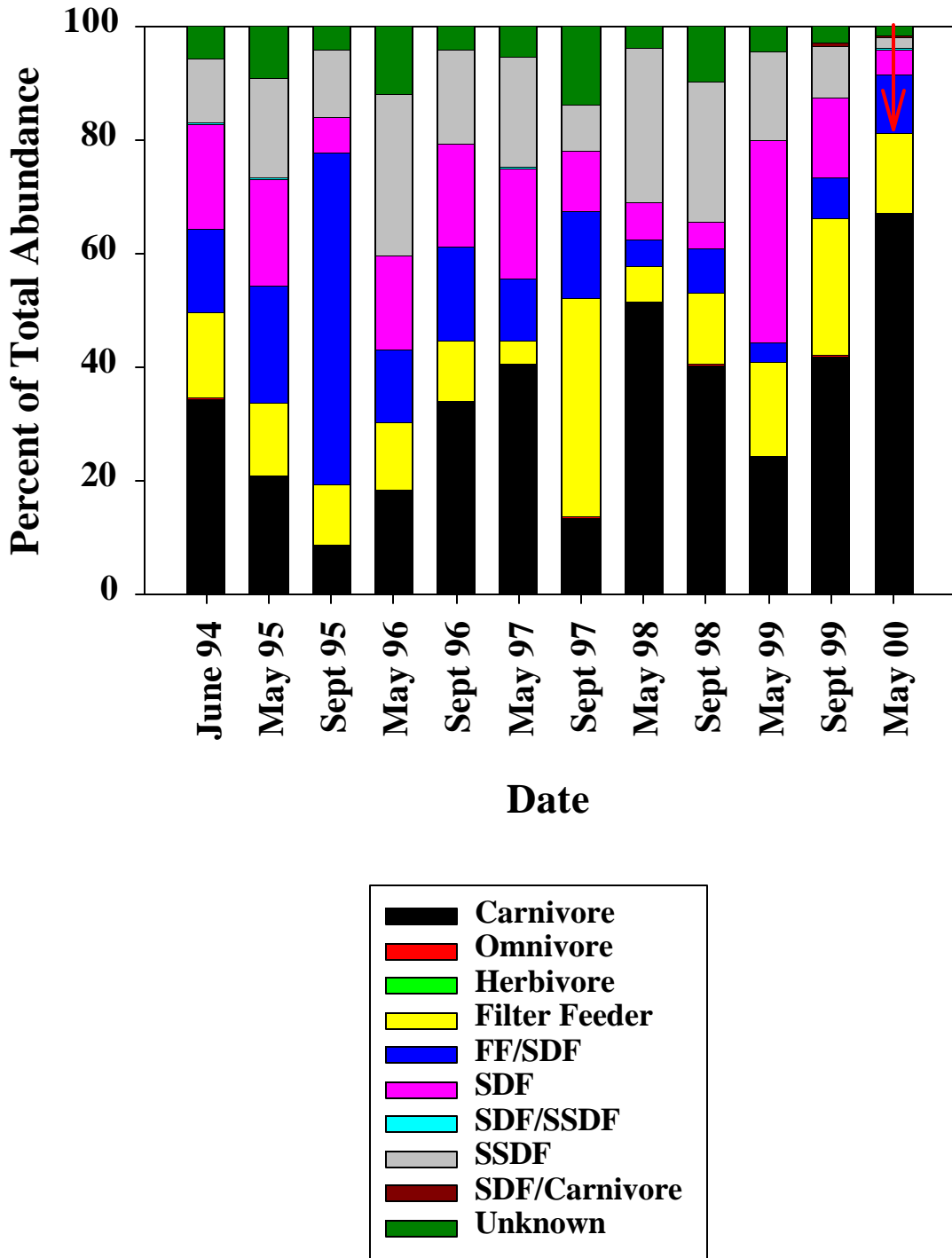


Figure 8-29. Borrow Area BBA5 Trophic Guilds. Arrows indicate when dredging occurred.

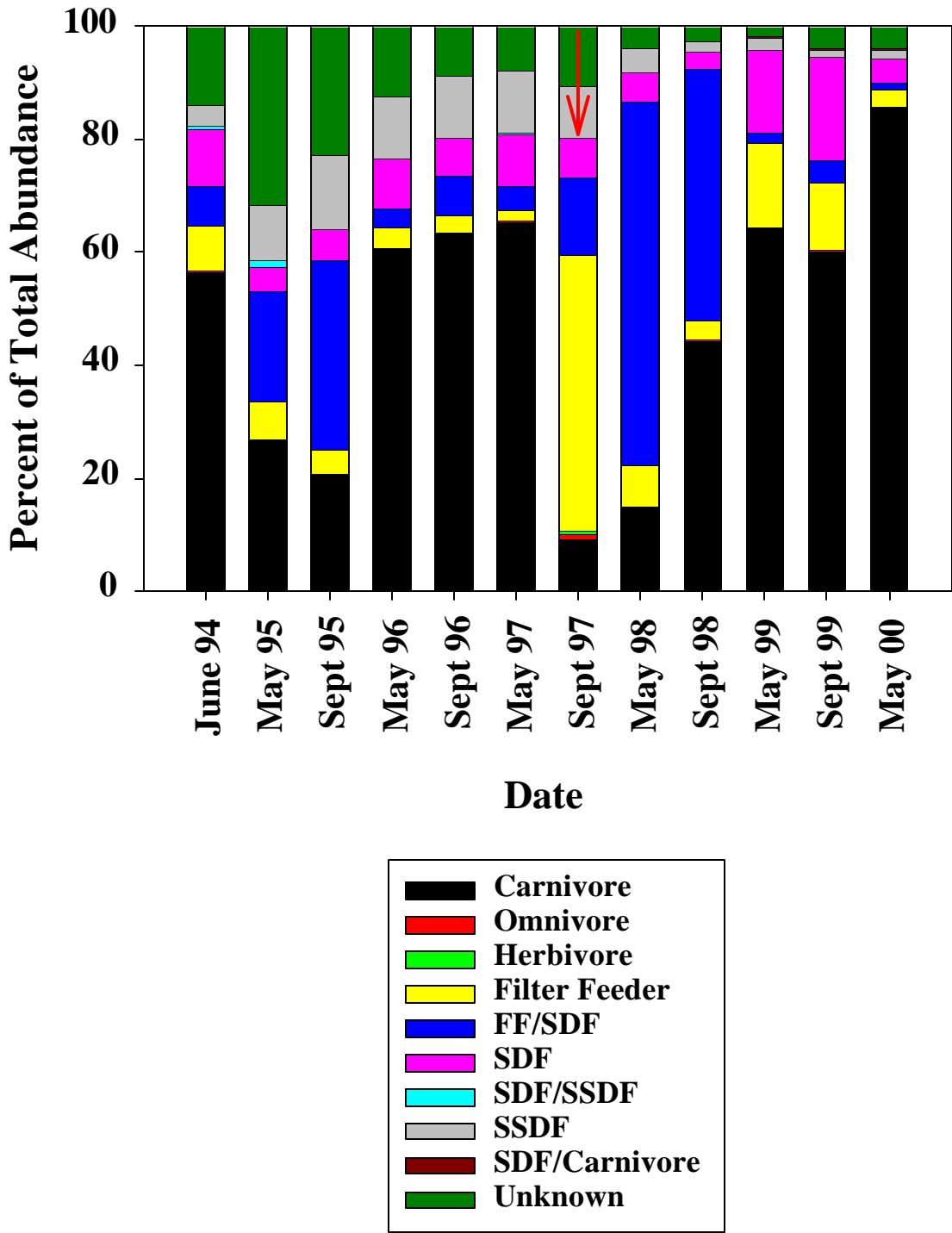


Figure 8-30. Borrow Area BBA6 Trophic Guilds. Arrows indicate when dredging occurred.

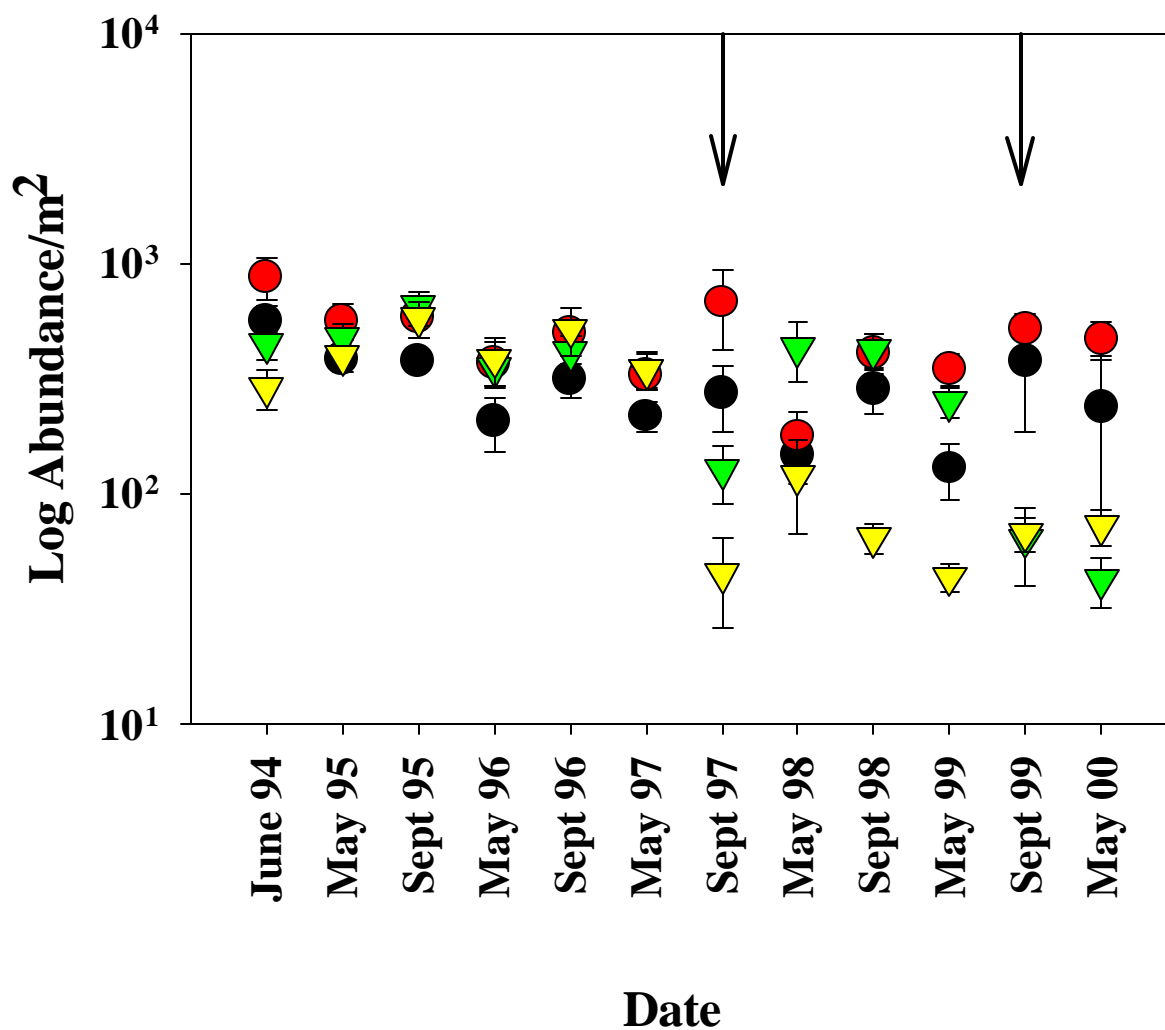


Figure 8-31. Subsurface Deposit-Feeder Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

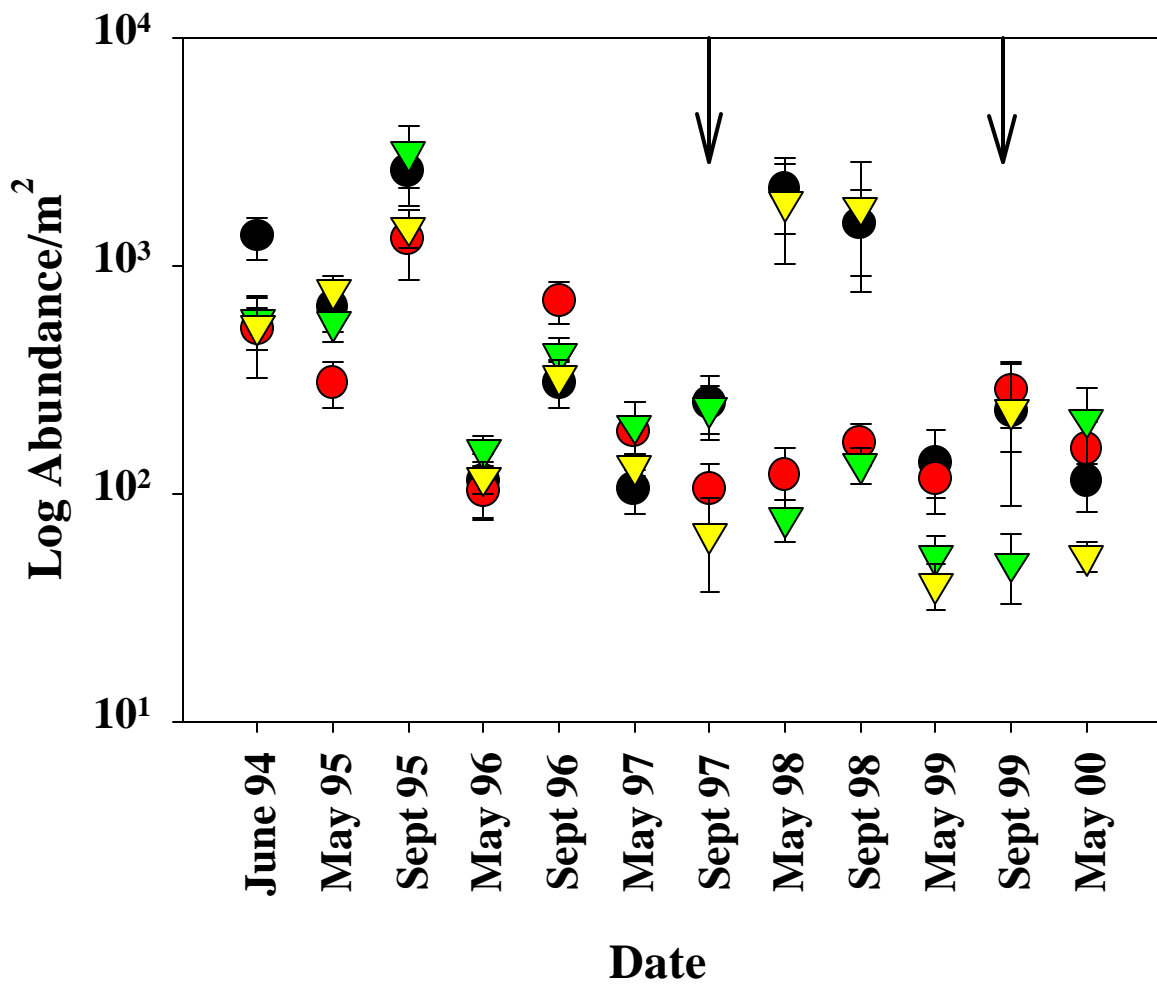


Figure 8-32. Filter Feeder/Surface Deposit-Feeder Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.



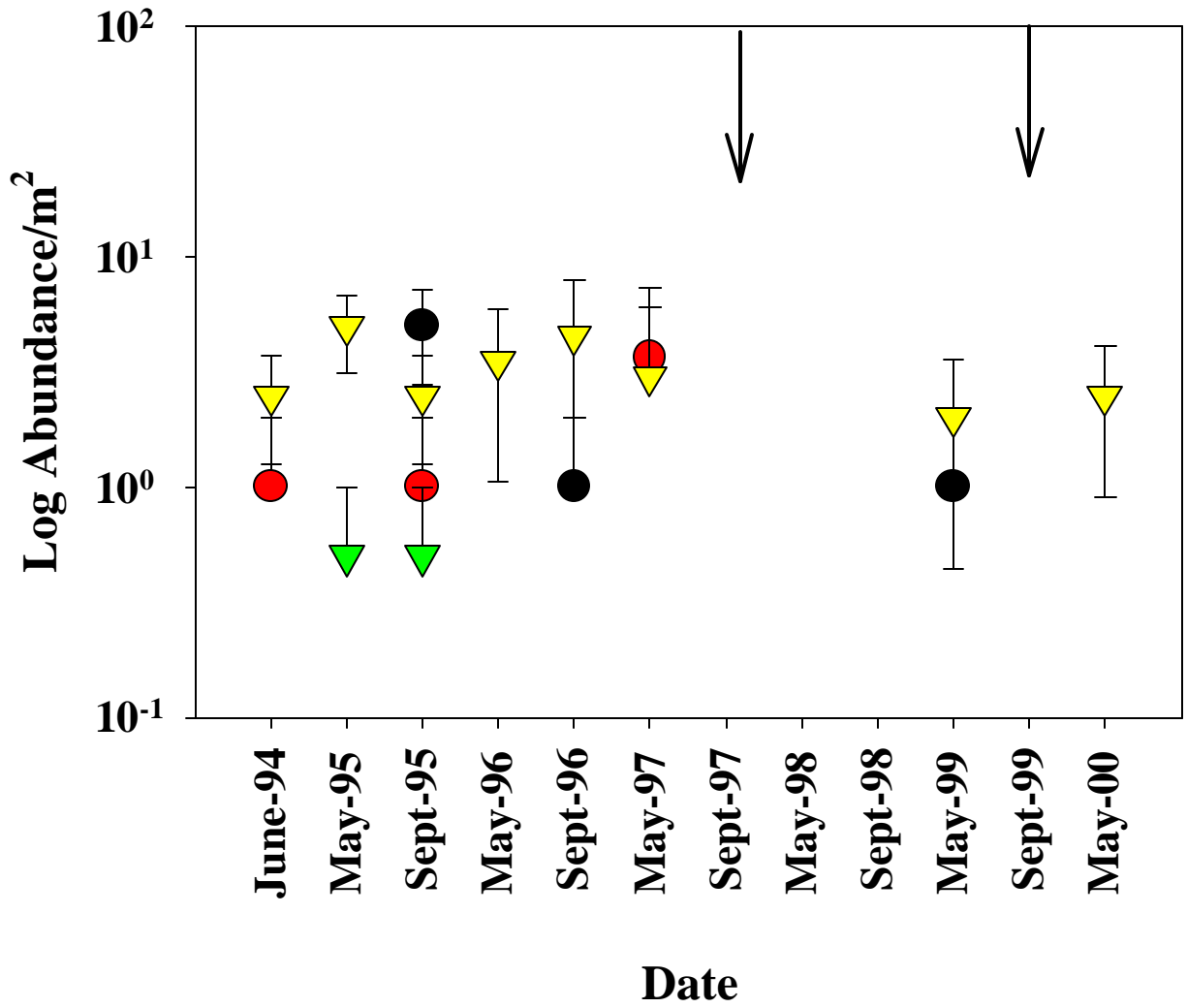


Figure 8-33. Maldanid Polychaete Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

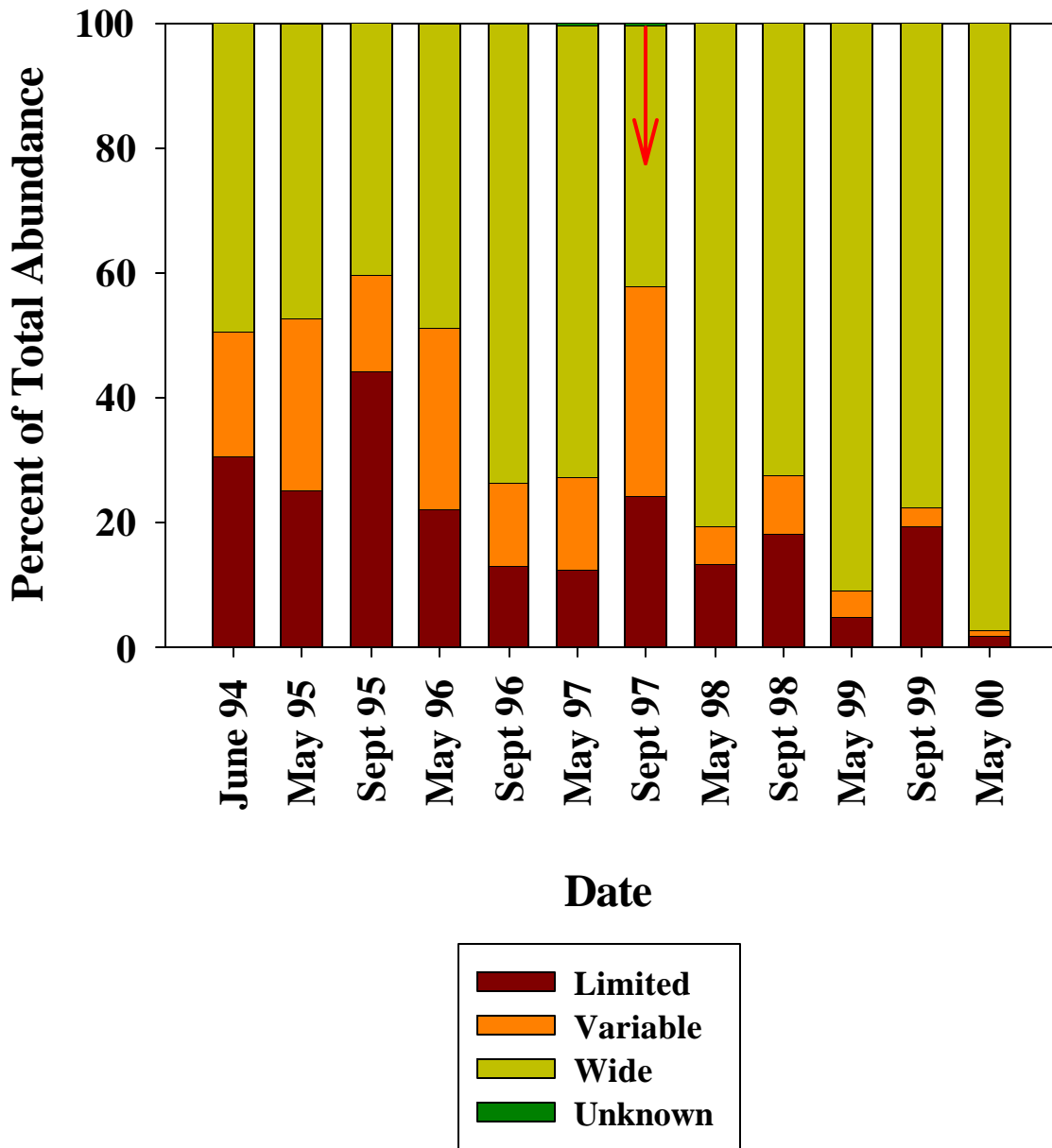


Figure 8-34. Borrow Area BBA3-Dredged Dispersal Guilds. Arrows indicate when dredging occurred.

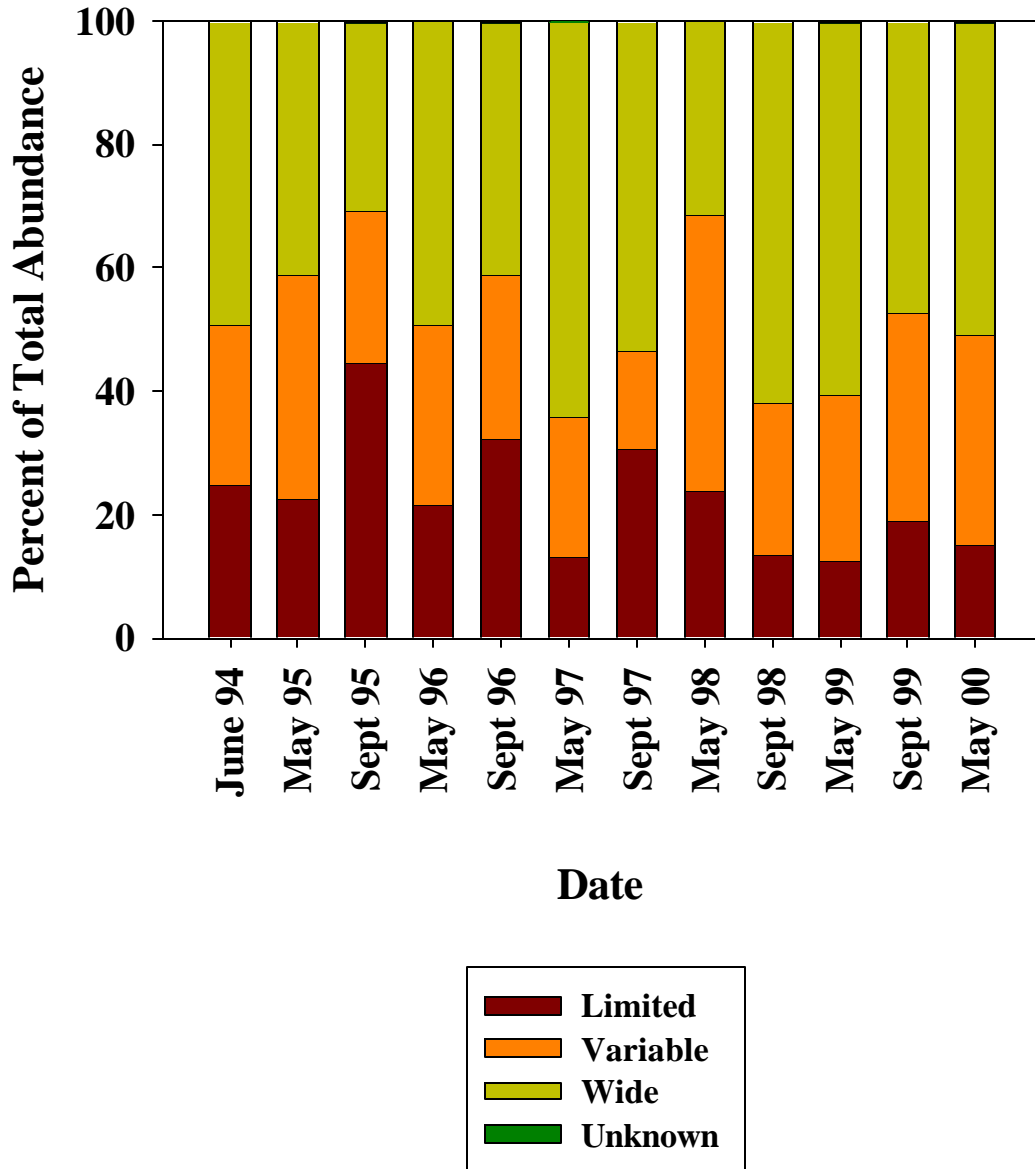


Figure 8-35. Borrow Area BBA3-Undredged Dispersal Guilds. Arrows indicate when dredging occurred.

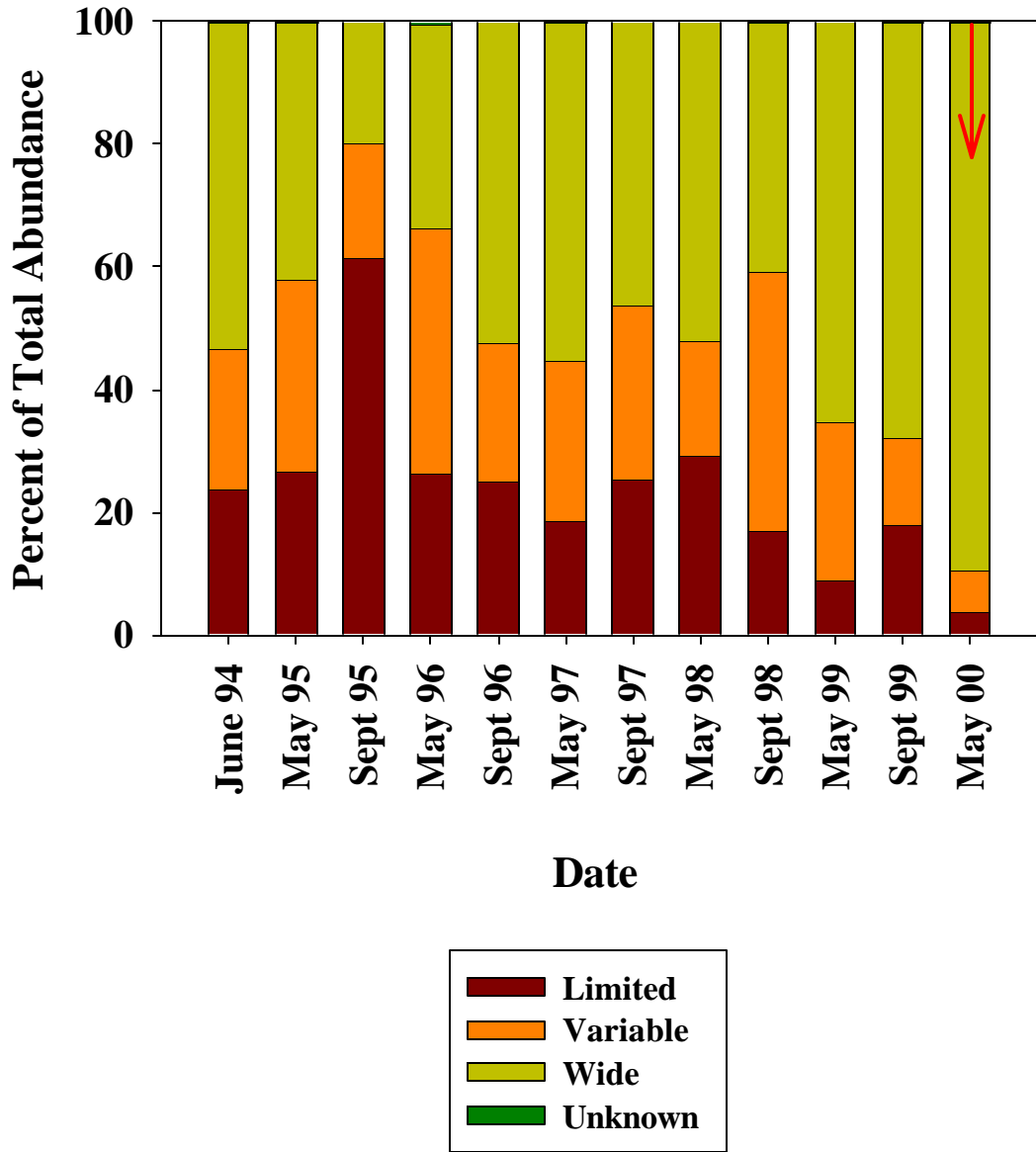


Figure 8-36. Borrow Area BBA5 Dispersal Guilds. Arrows indicate when dredging occurred.

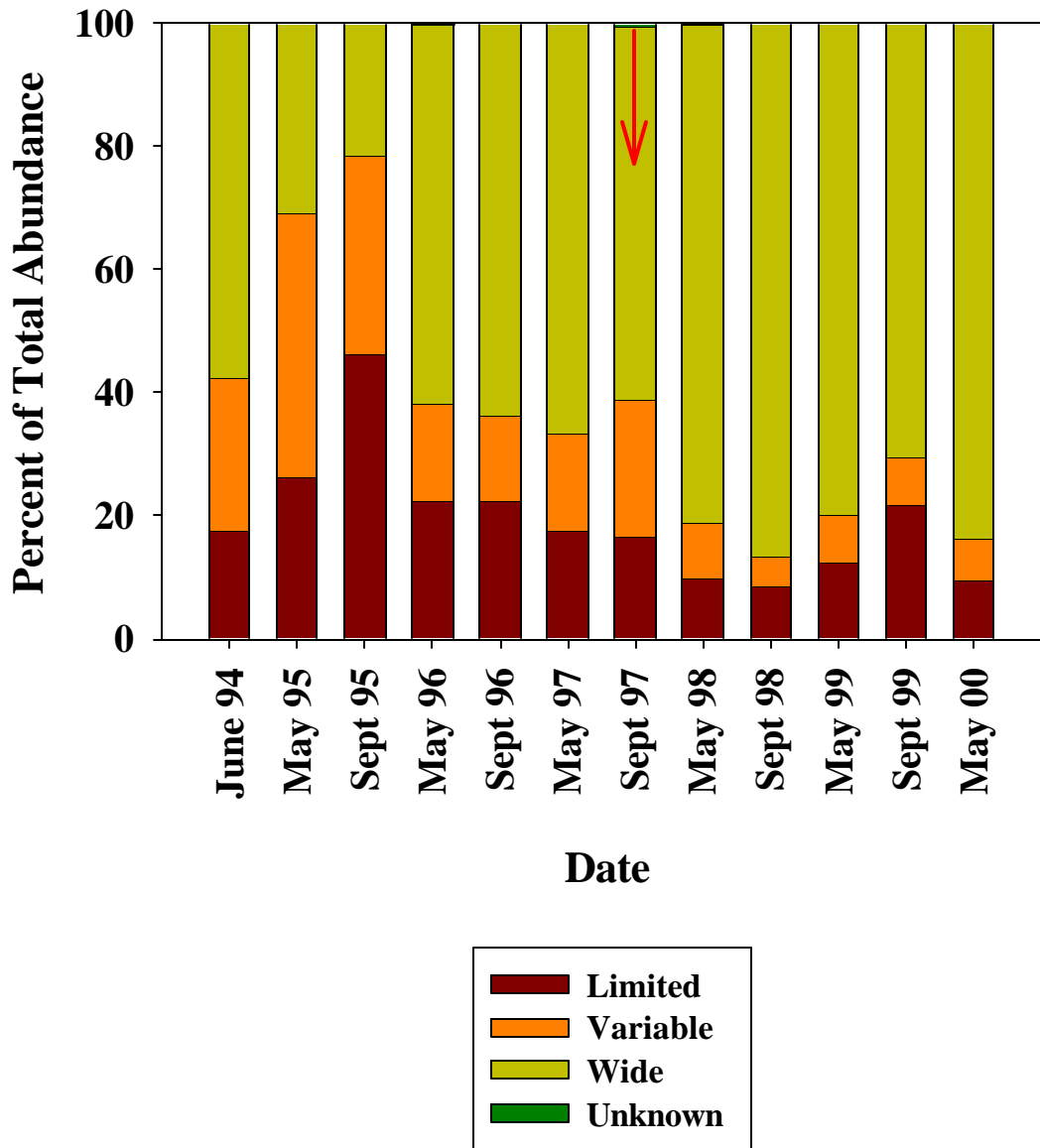


Figure 8-37. Borrow Area BBA6 Dispersal Guilds. Arrows indicate when dredging occurred.

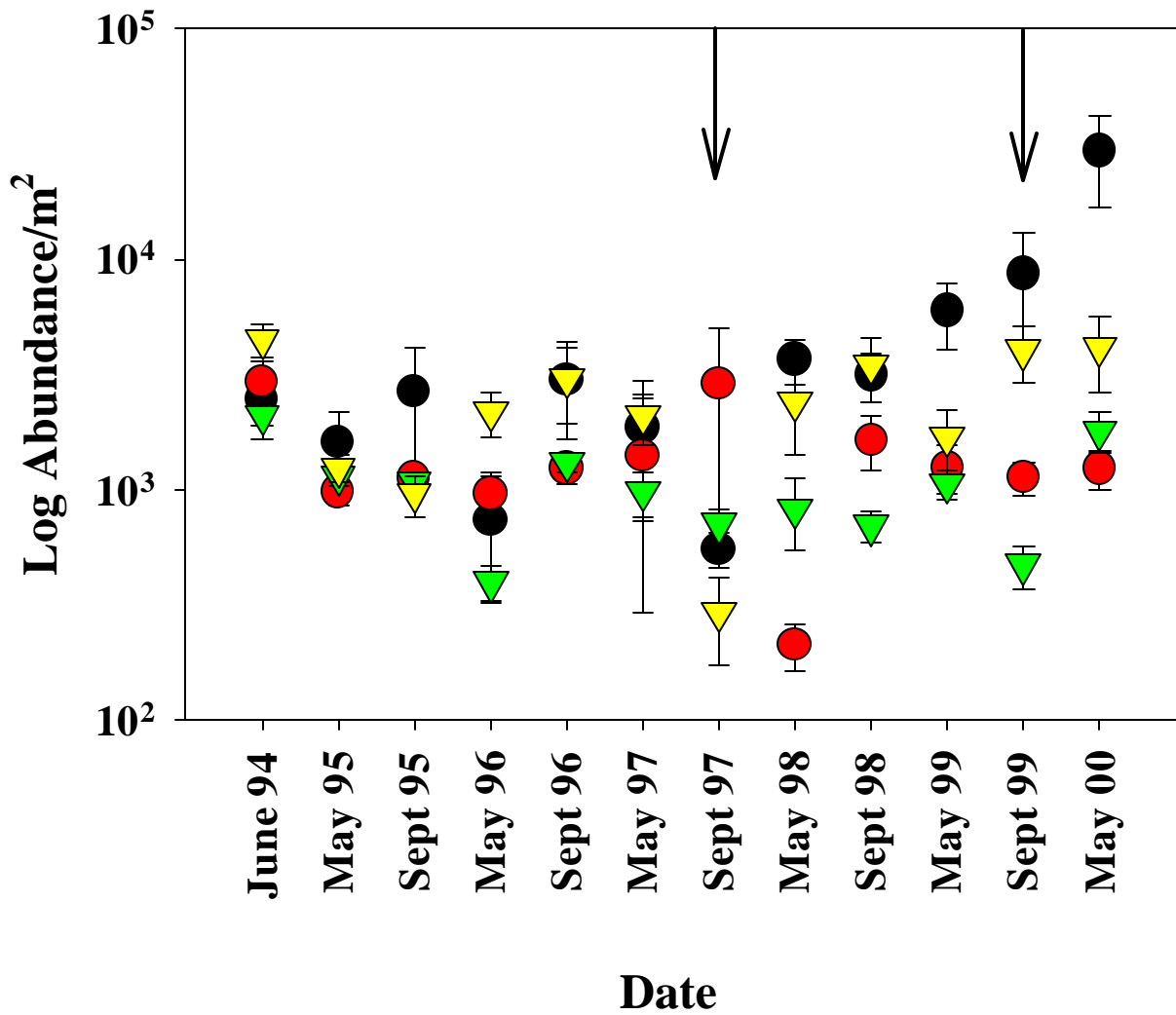


Figure 8-38. Wide-Dispersal Guild Abundance (Mean No. Animals/m<sup>2</sup> ± SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

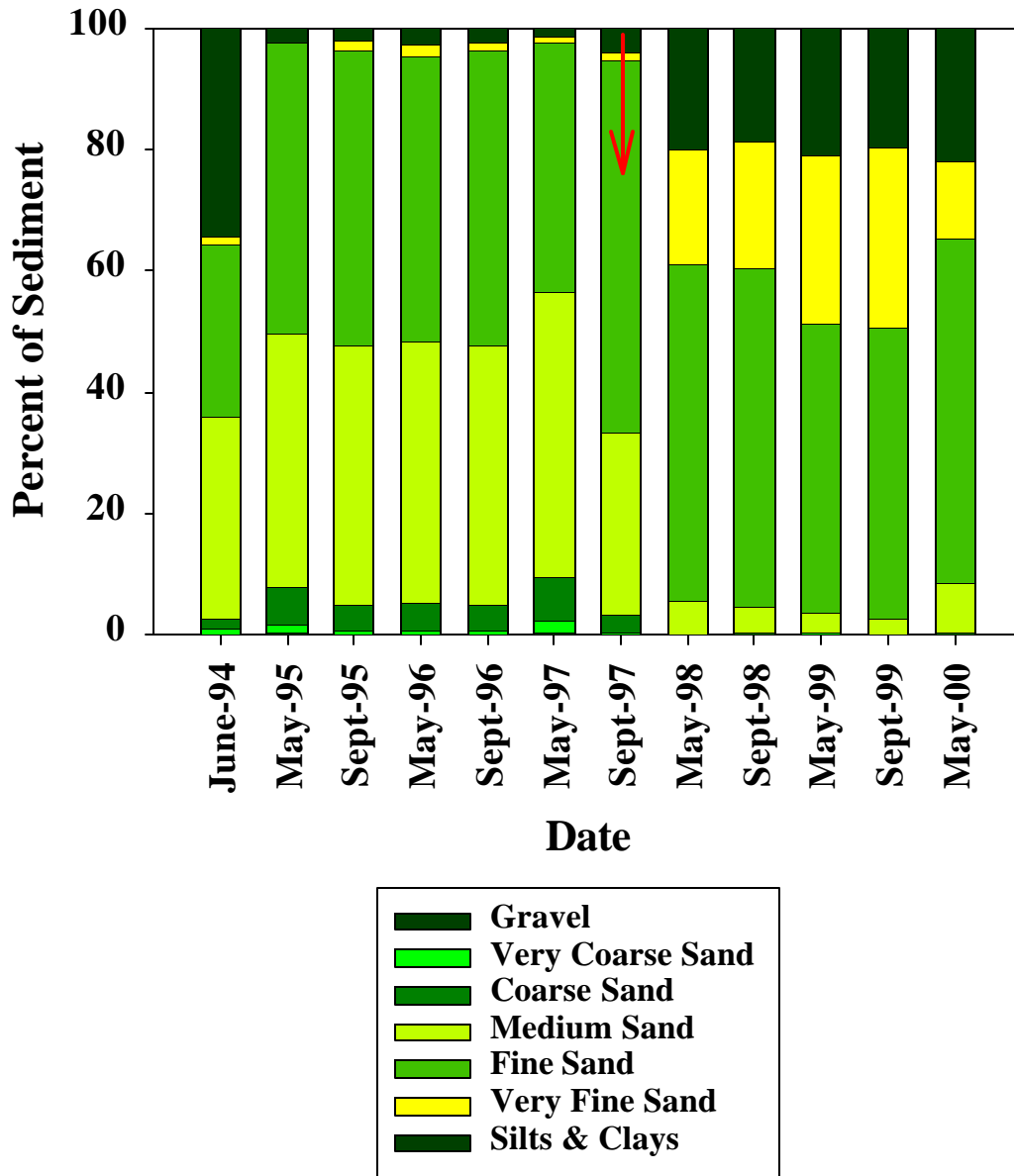


Figure 8-39. Sediment Composition of Borrow Area 3- Dredged Portion. Arrow indicates when dredging occurred.

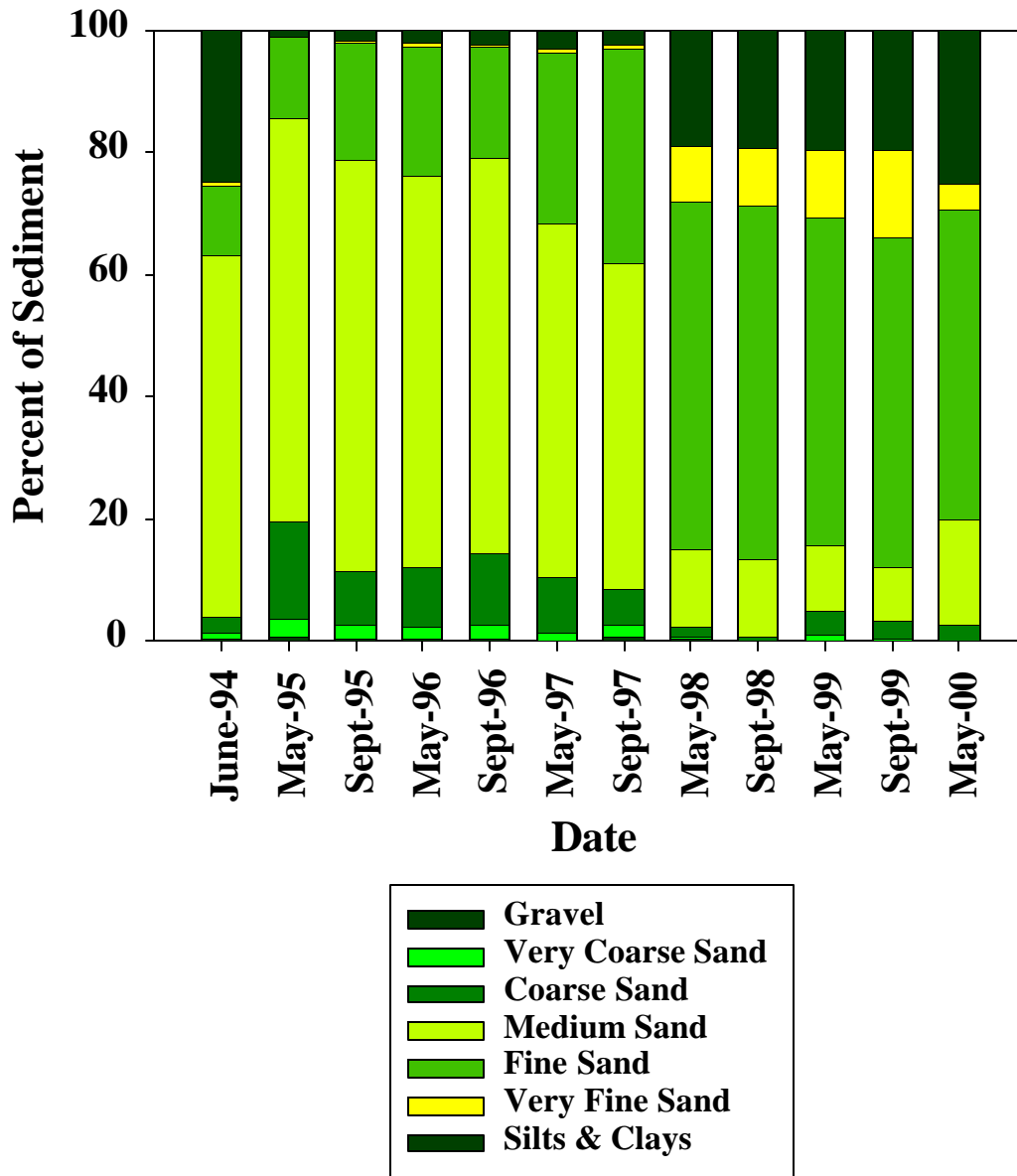


Figure 8-40. Sediment Composition of Borrow Area 3- Undredged Portion.



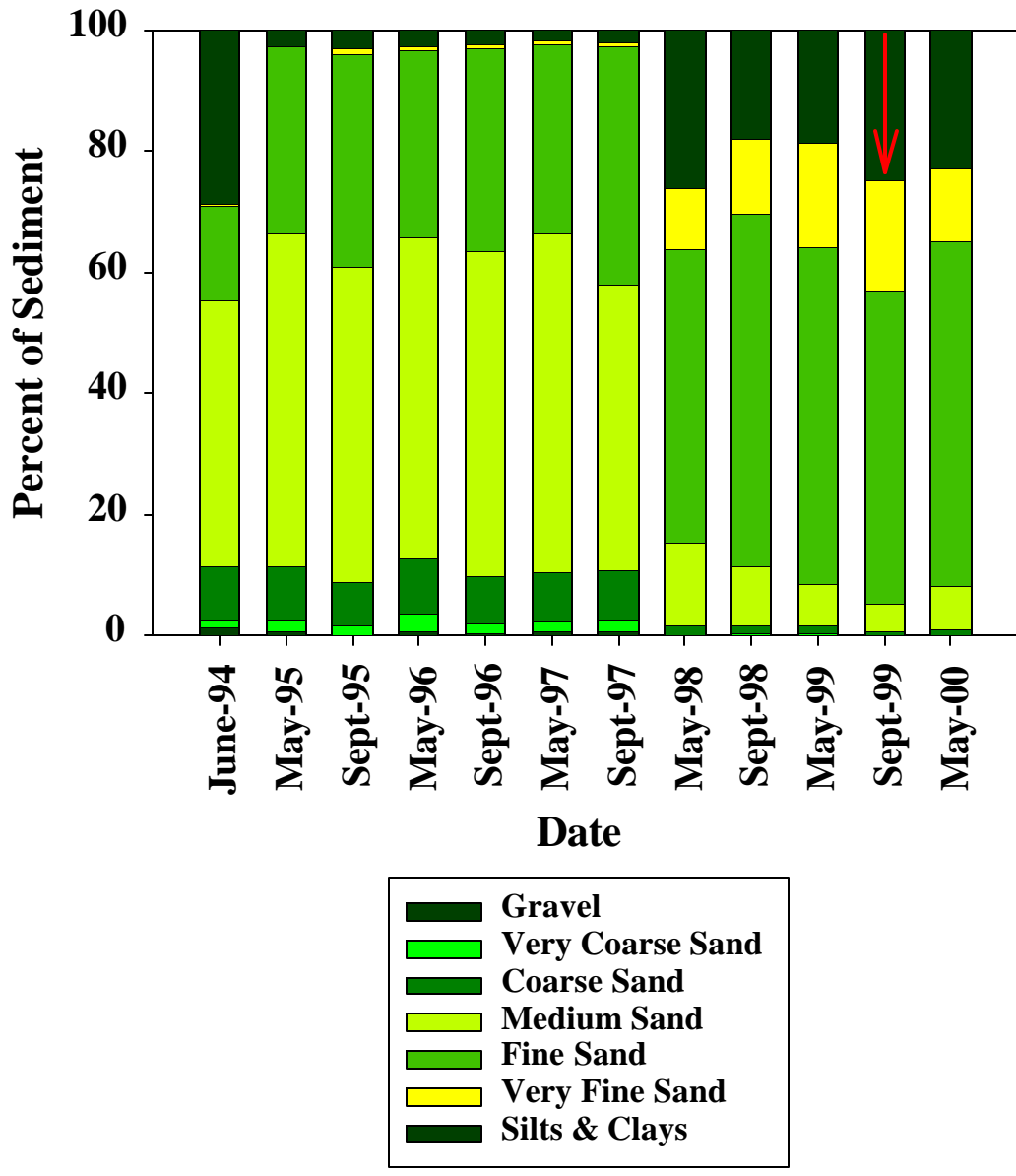


Figure 8-41. Sediment Composition of Borrow Area 5. Arrow indicates when dredging occurred.

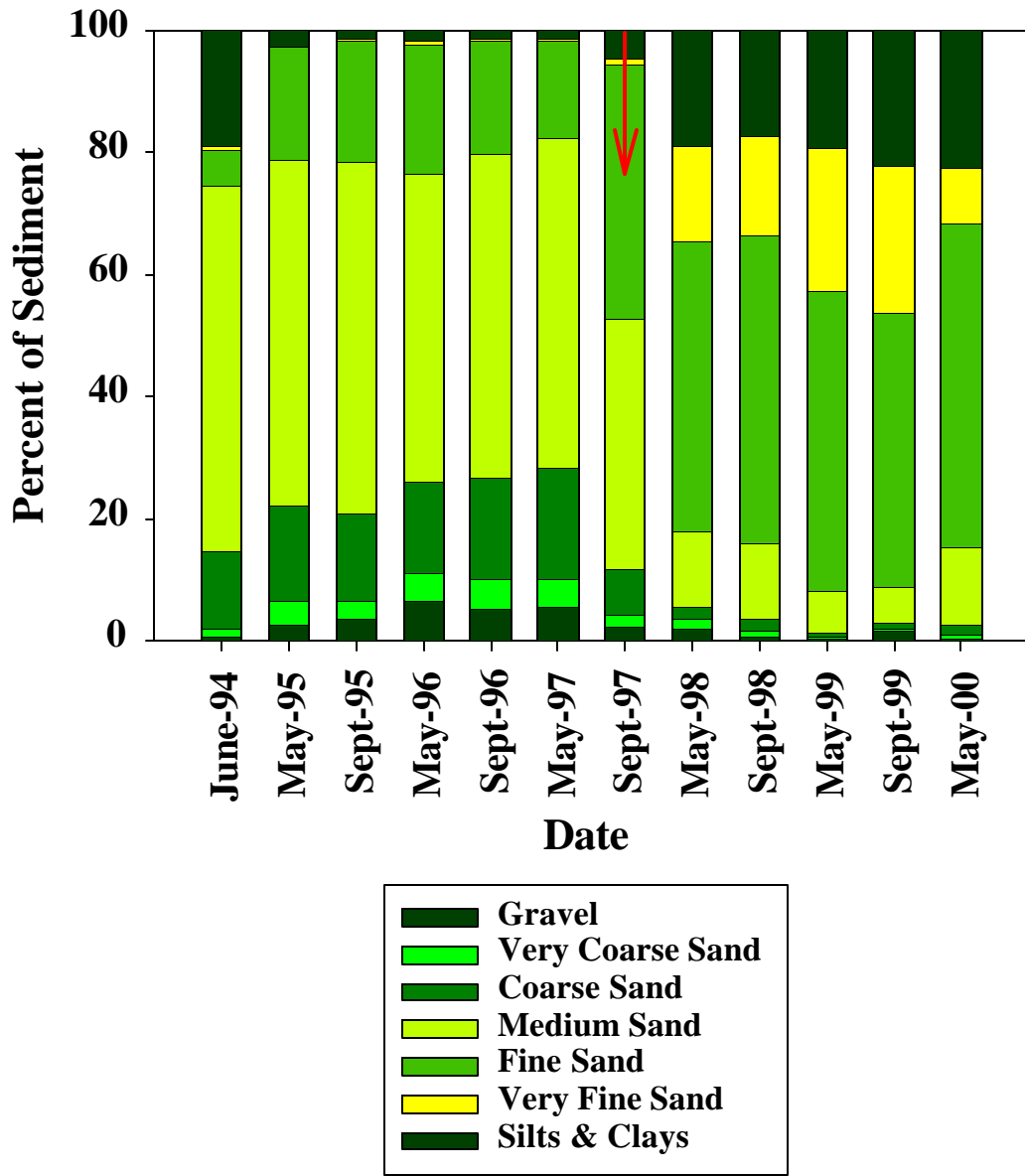


Figure 8-42. Sediment Composition of Borrow Area 6. Arrow indicates when dredging occurred.

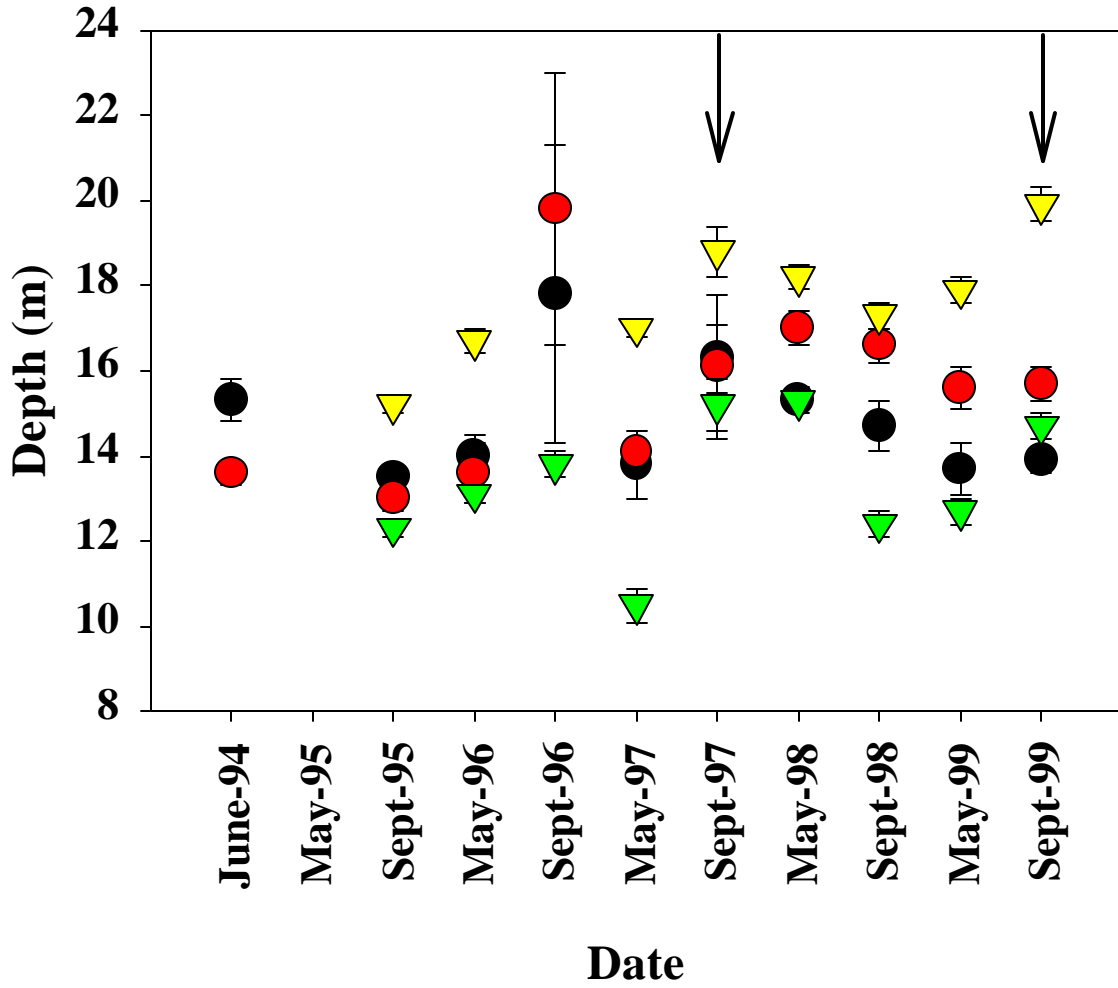


Figure 8-43. Depth of Borrow Areas. Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

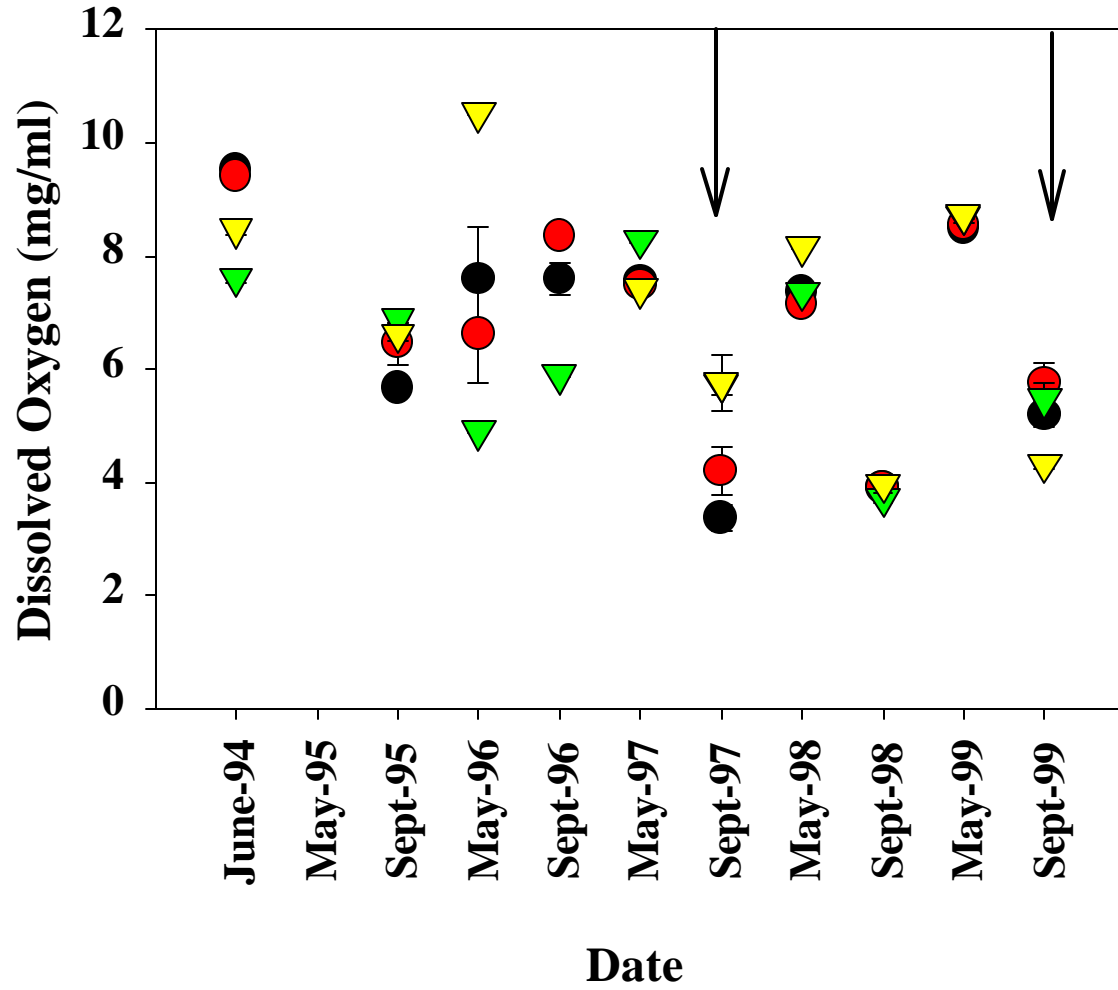


Figure 8-44. Dissolved Oxygen Content of Borrow Area Bottom Waters (Mg/l±SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

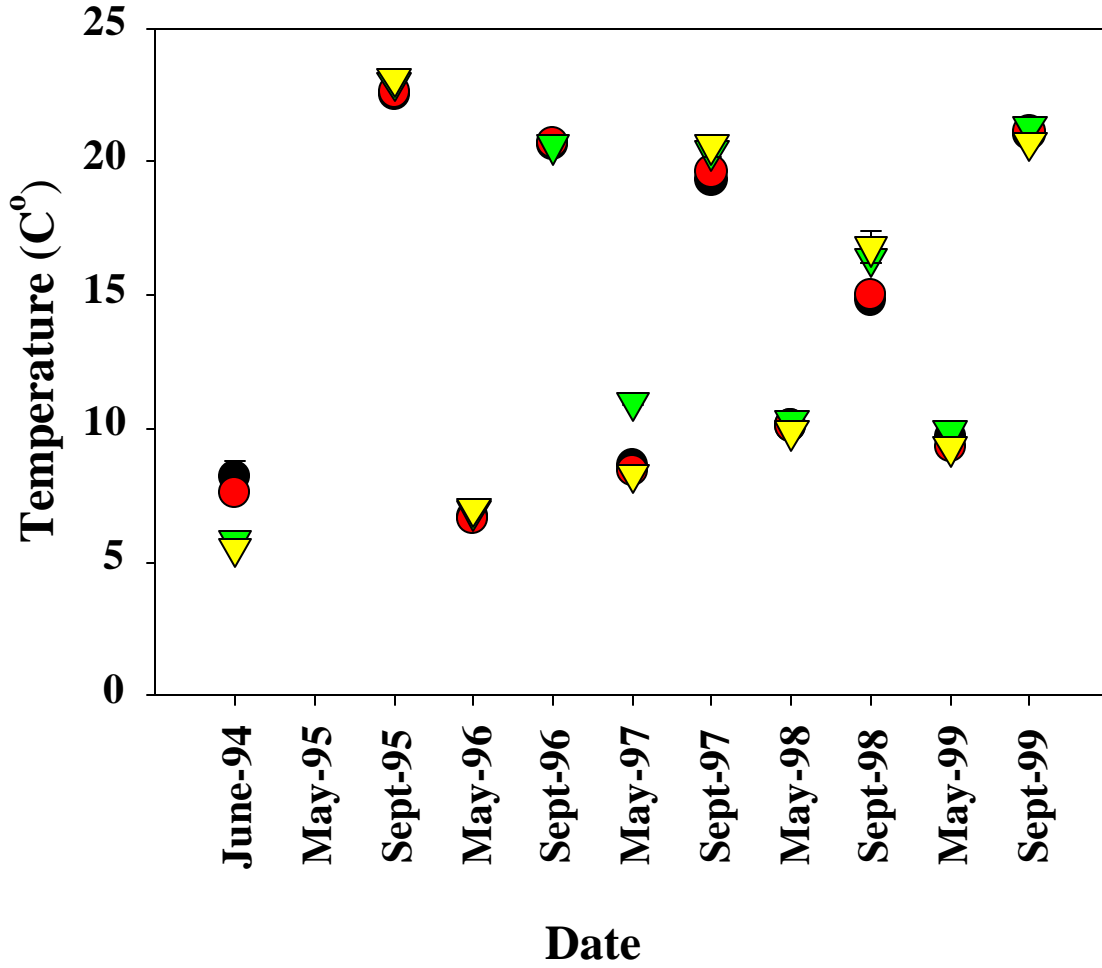


Figure 8-45. Temperature of Borrow Area Bottom Waters ( $C^0_{\pm SE}$ ). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.

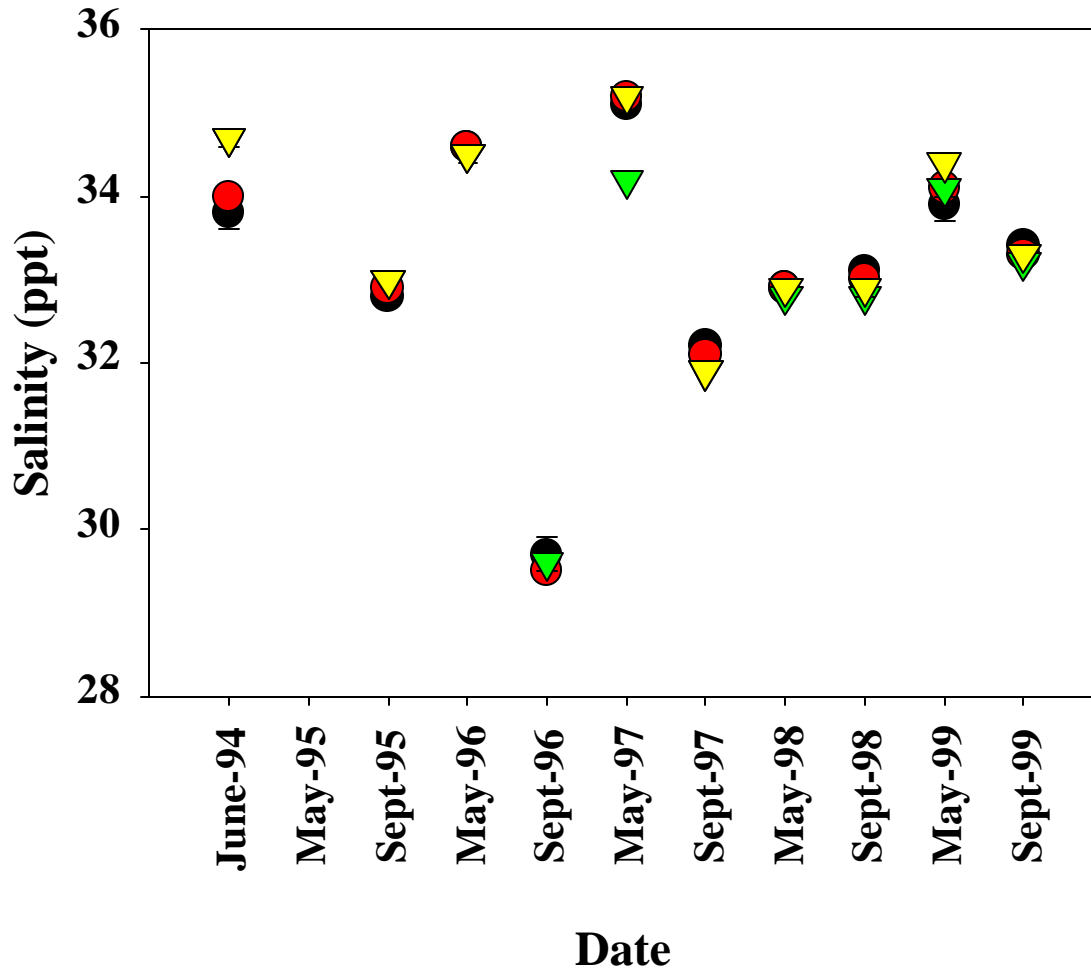


Figure 8-46. Salinity of Borrow Area Bottom Waters (ppt $\pm$ SE). Black circles = BBA3-Dredged, Red circles = BBA3-Undredged, Green inverted triangles = BBA5, yellow inverted triangles = BBA6; Arrows indicate when dredging occurred.