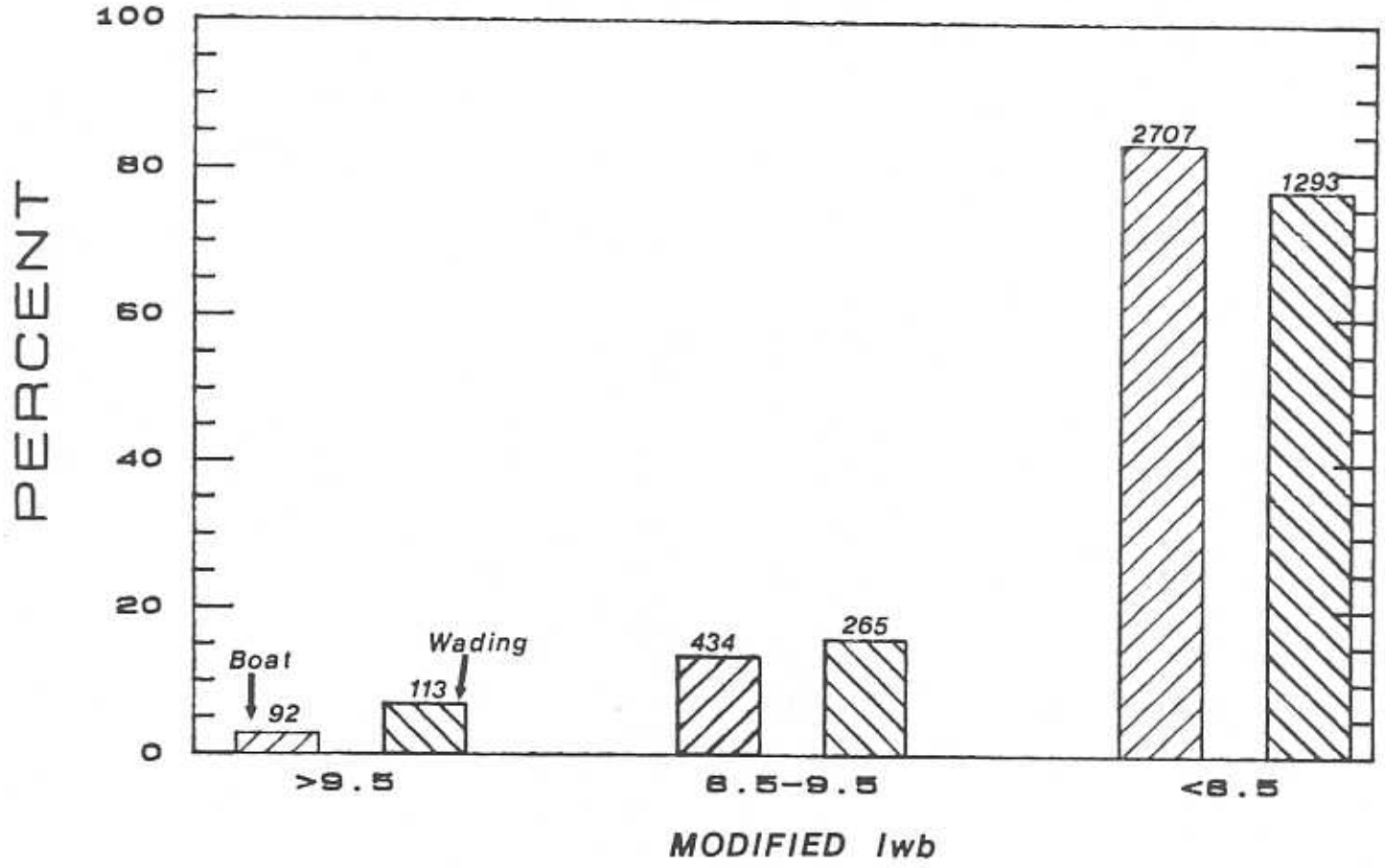

Figure 6-1. Percentage of electrofishing samples (boat and wading results) that occur in three ranges of the modified I_{wb} based on collections during 1979-1986. Modified I_{wb} values of ≥ 9.5 approximates EWH attainment, 8.5-9.5 approximates WWH attainment, and <8.5 reflects non-attainment of WQS (sample size appears above each bar).

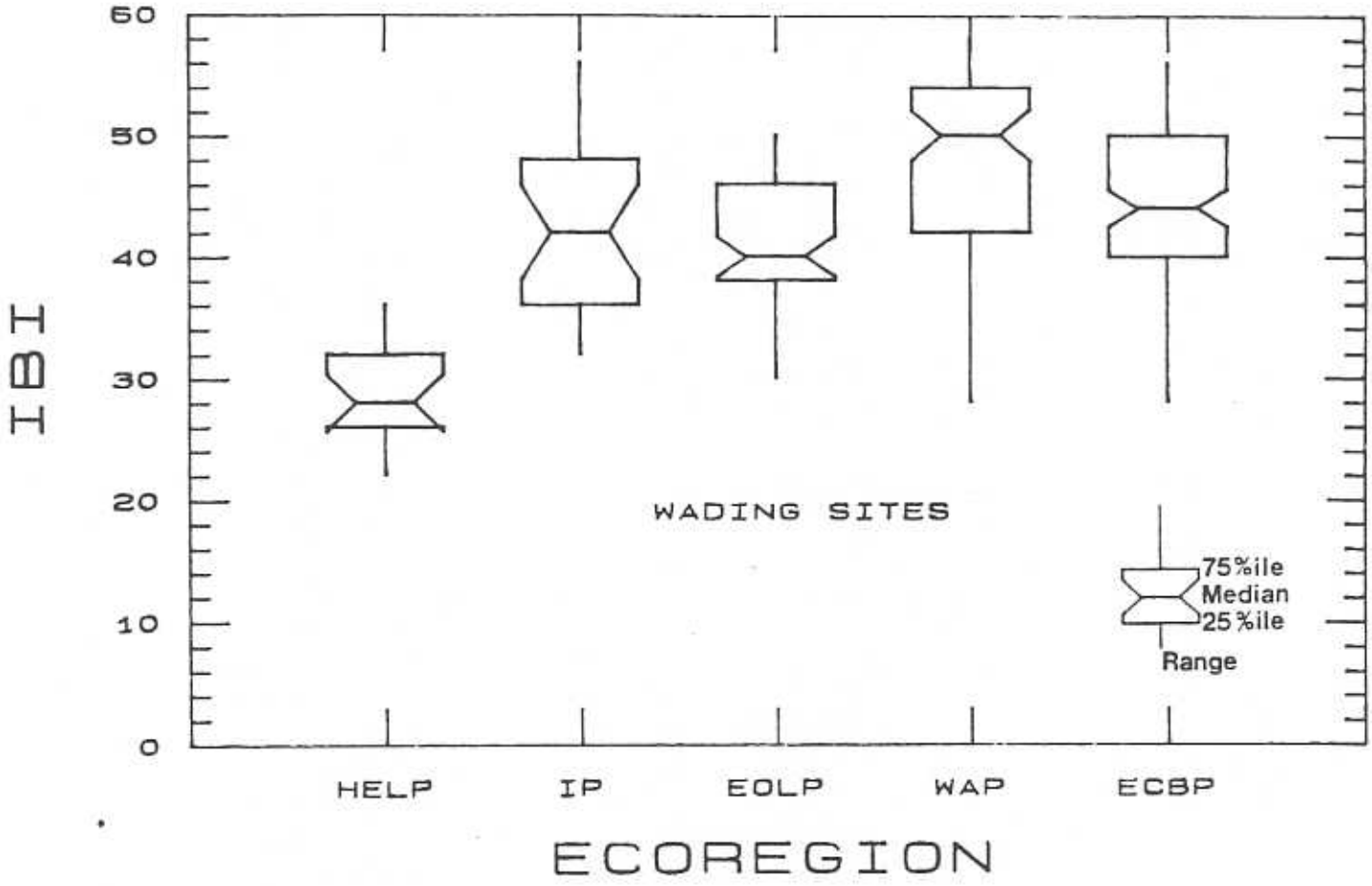

Figure 6-2. Notched box-and-whisker plot of Ohio reference site results for the Index of Biotic Integrity (Wading sites) showing maximum, minimum, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($P<0.05$).

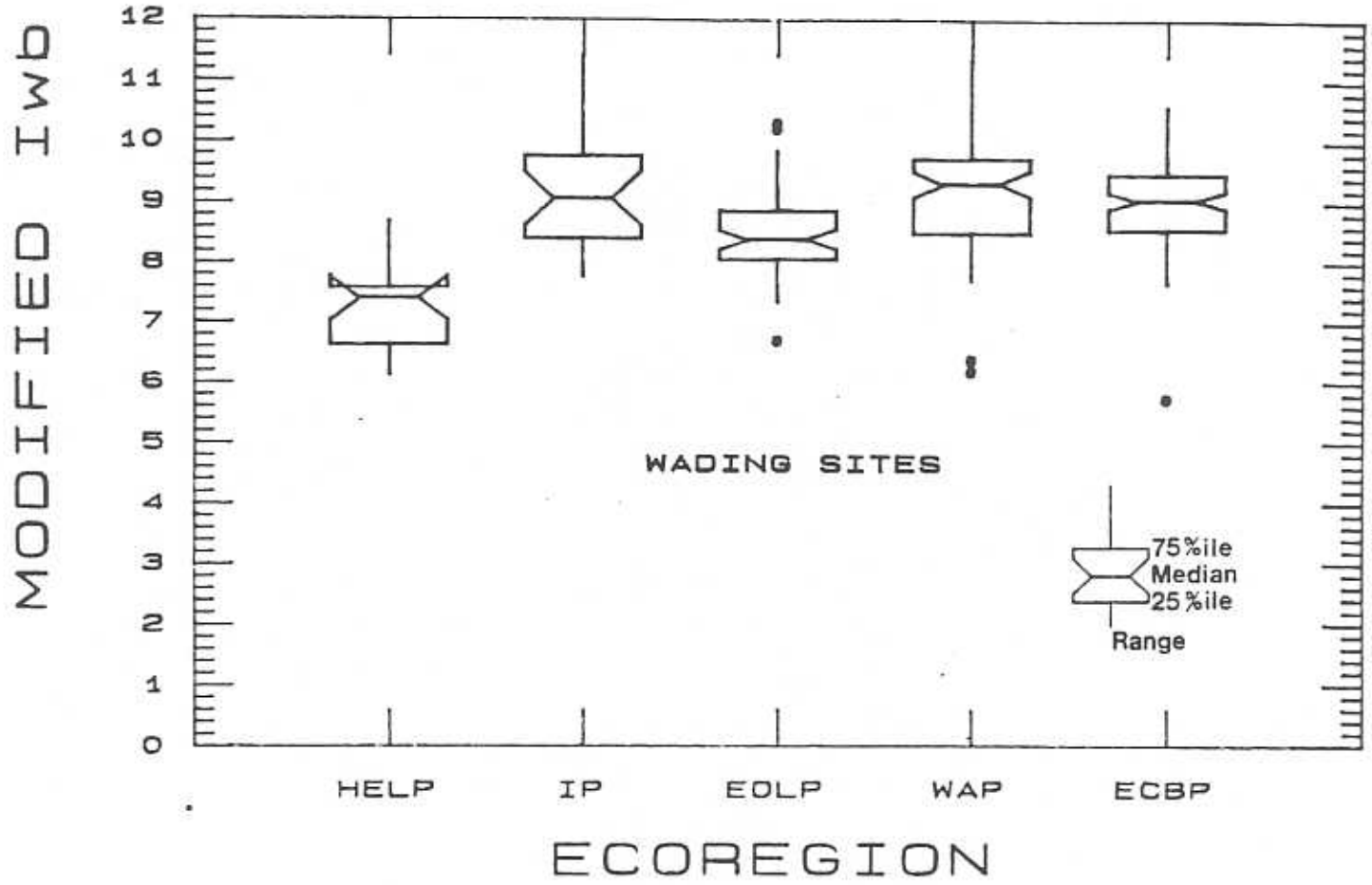

Figure 6-3. Notched box-and-whisker plot of Ohio reference site results for the Modified Index of Well-Being (Wading sites) showing maximum, minimum, outliers, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($P<0.05$).

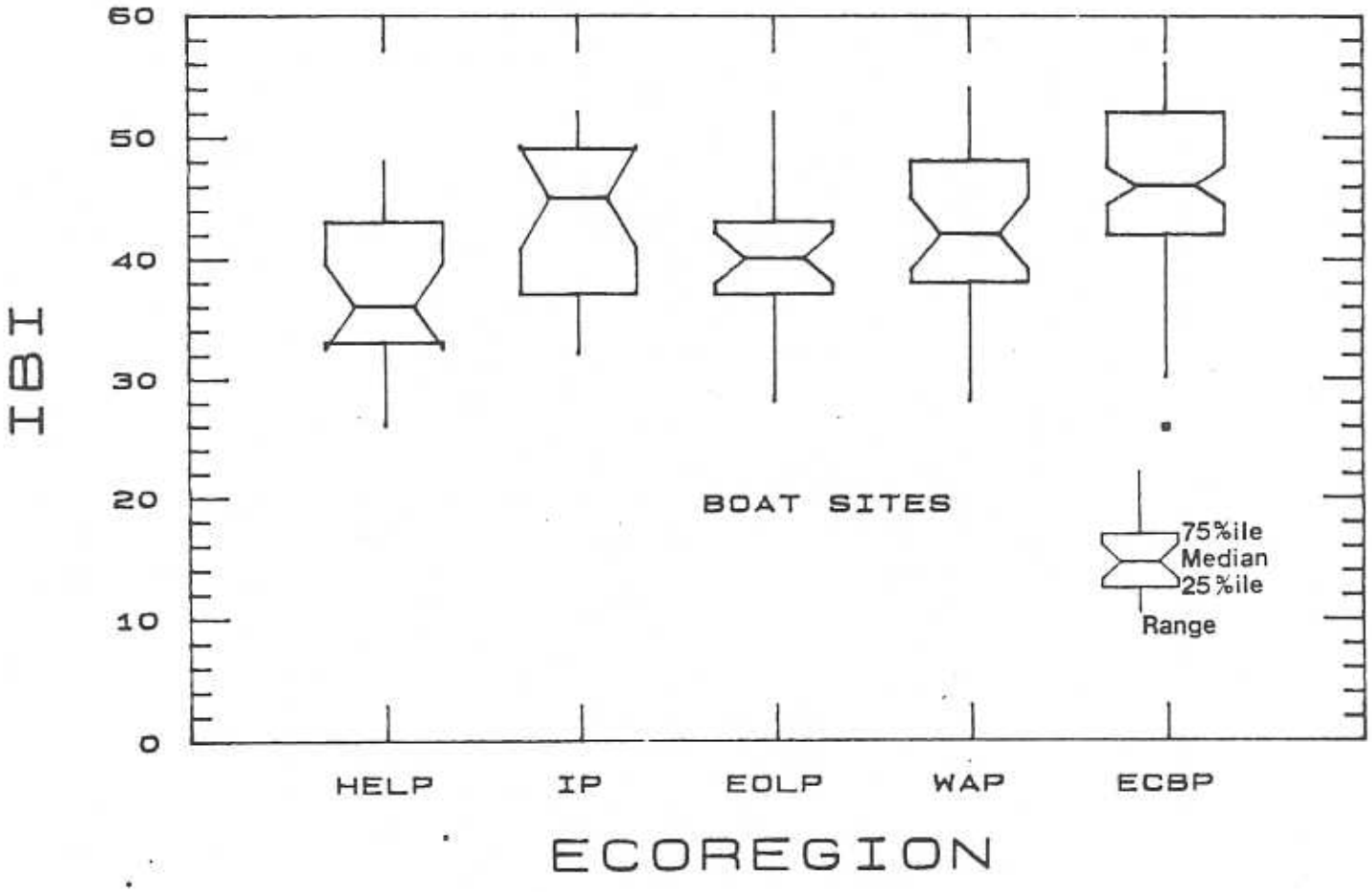

Figure 6-4. Notched box-and-whisker plot of Ohio reference site results for the Index of Biotic Integrity (Boat sites) showing maximum, minimum, outliers, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($P<0.05$).

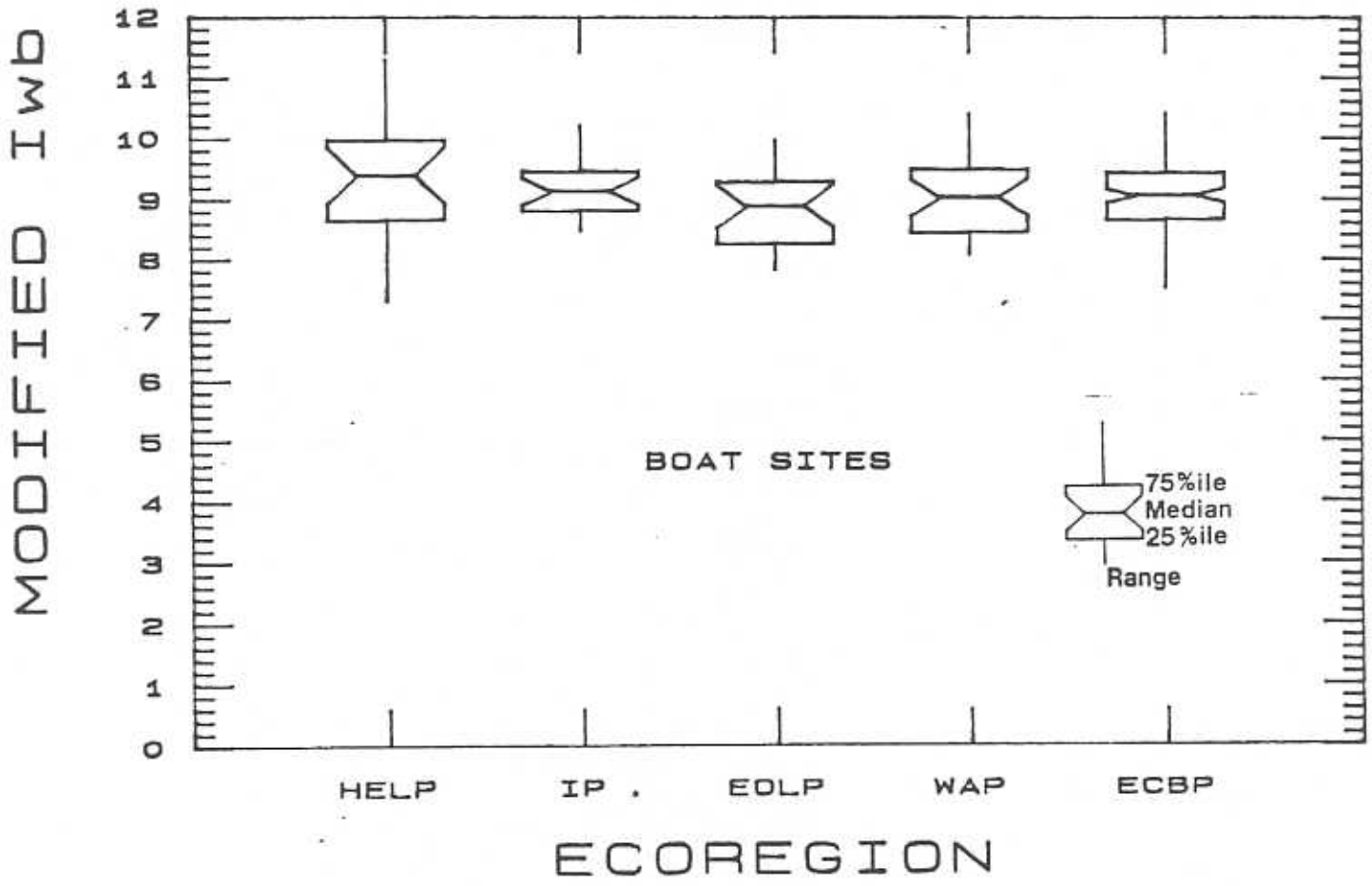

Figure 6-5. Notched box-and-whisker plot of Ohio reference site results for the Modified Index of Well-Being (Boat sites) showing maximum, minimum, outliers, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($P<0.05$).

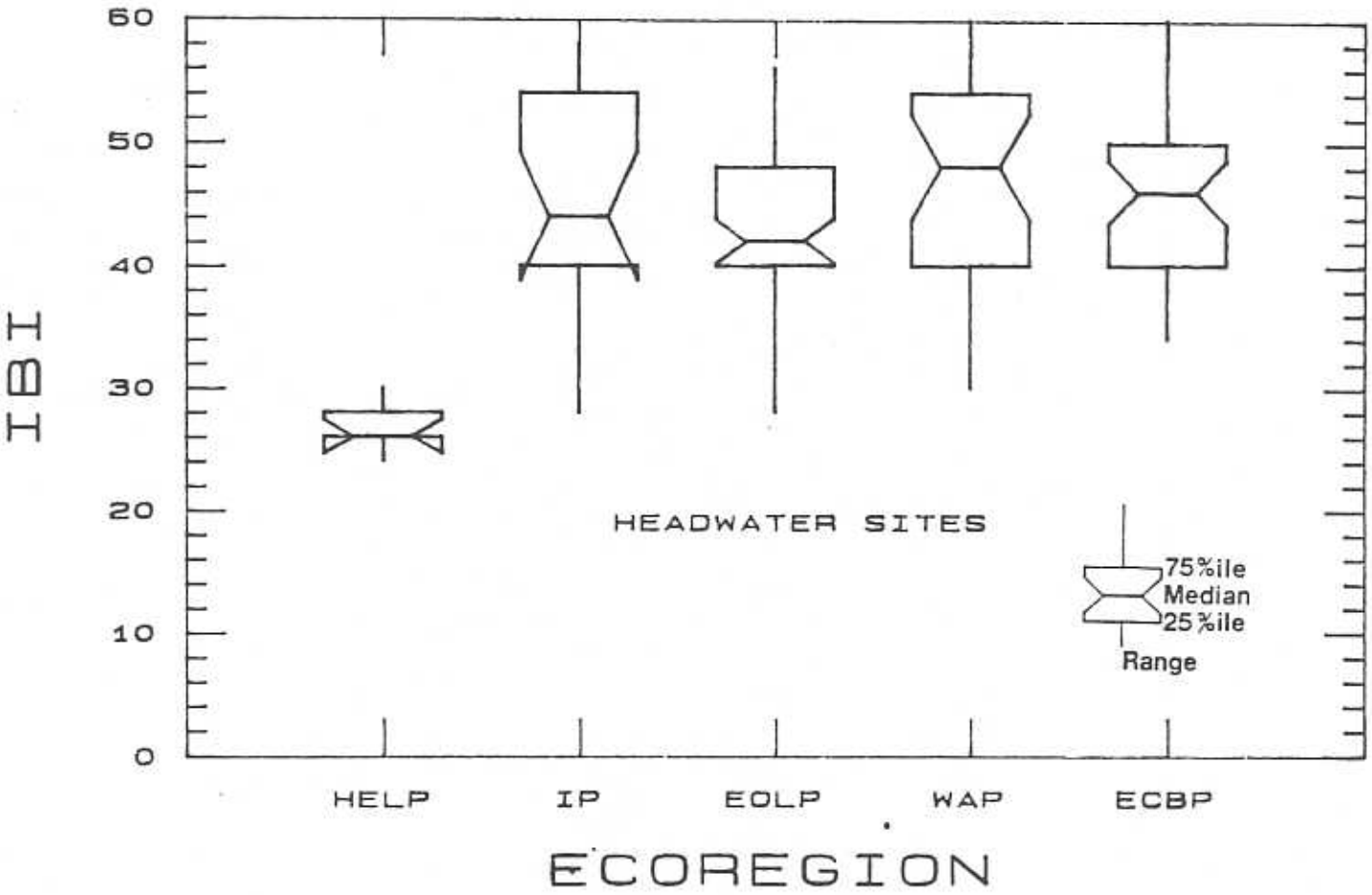

Figure 6-6. Notched box-and-whisker plot of Ohio reference site results for the Index of Biotic Integrity (Headwaters Sites) showing maximum, minimum, outliers, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($P<0.05$).

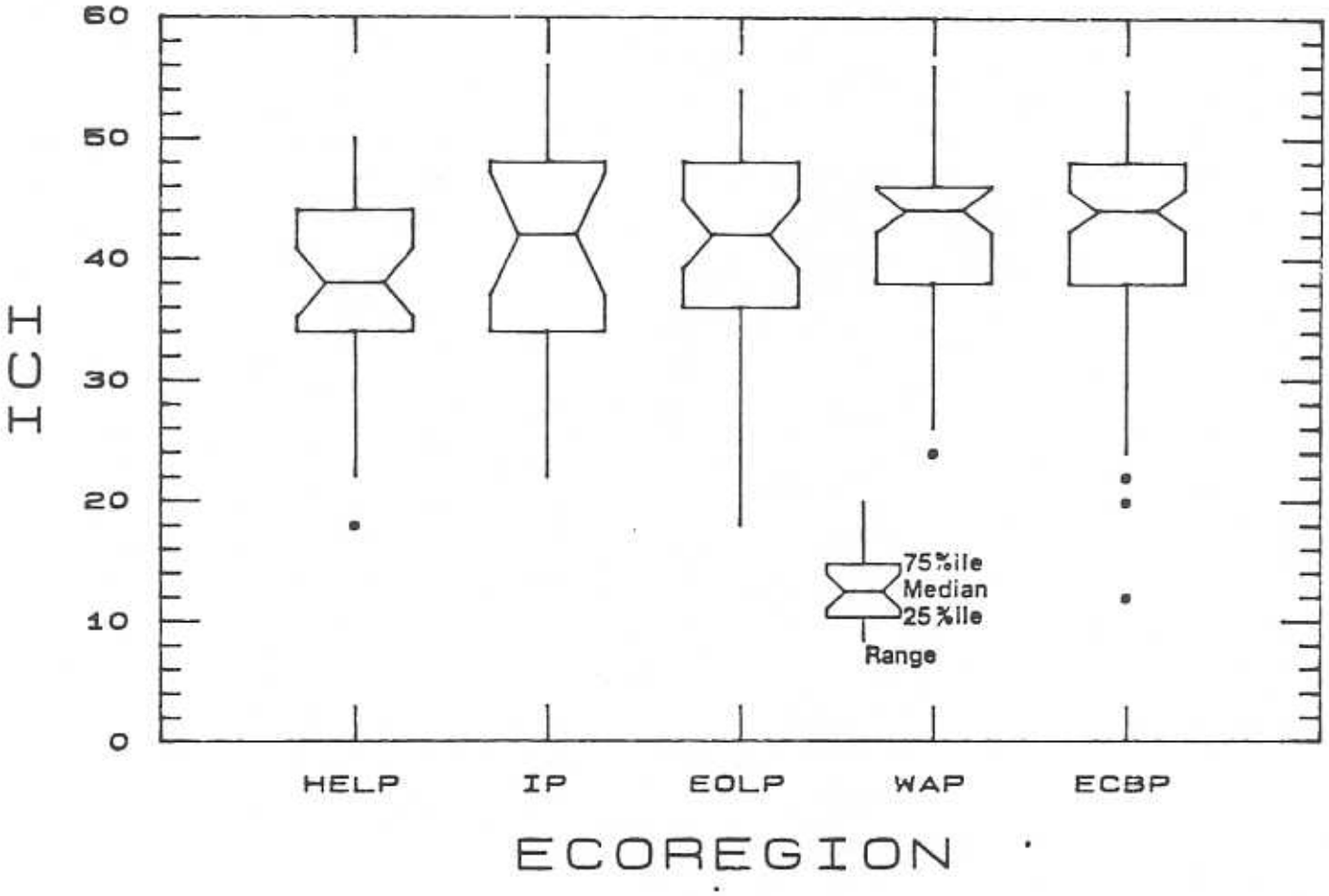

Figure 6-7. Notched box-and-whisker plot of Ohio reference site results for the Invertebrate Community Index (ICI) showing maximum, minimum, outliers, median, and upper (75%) and lower (25%) quartile ranges. Notch overlap between regions indicates that the median values are not significantly different ($p<0.05$).

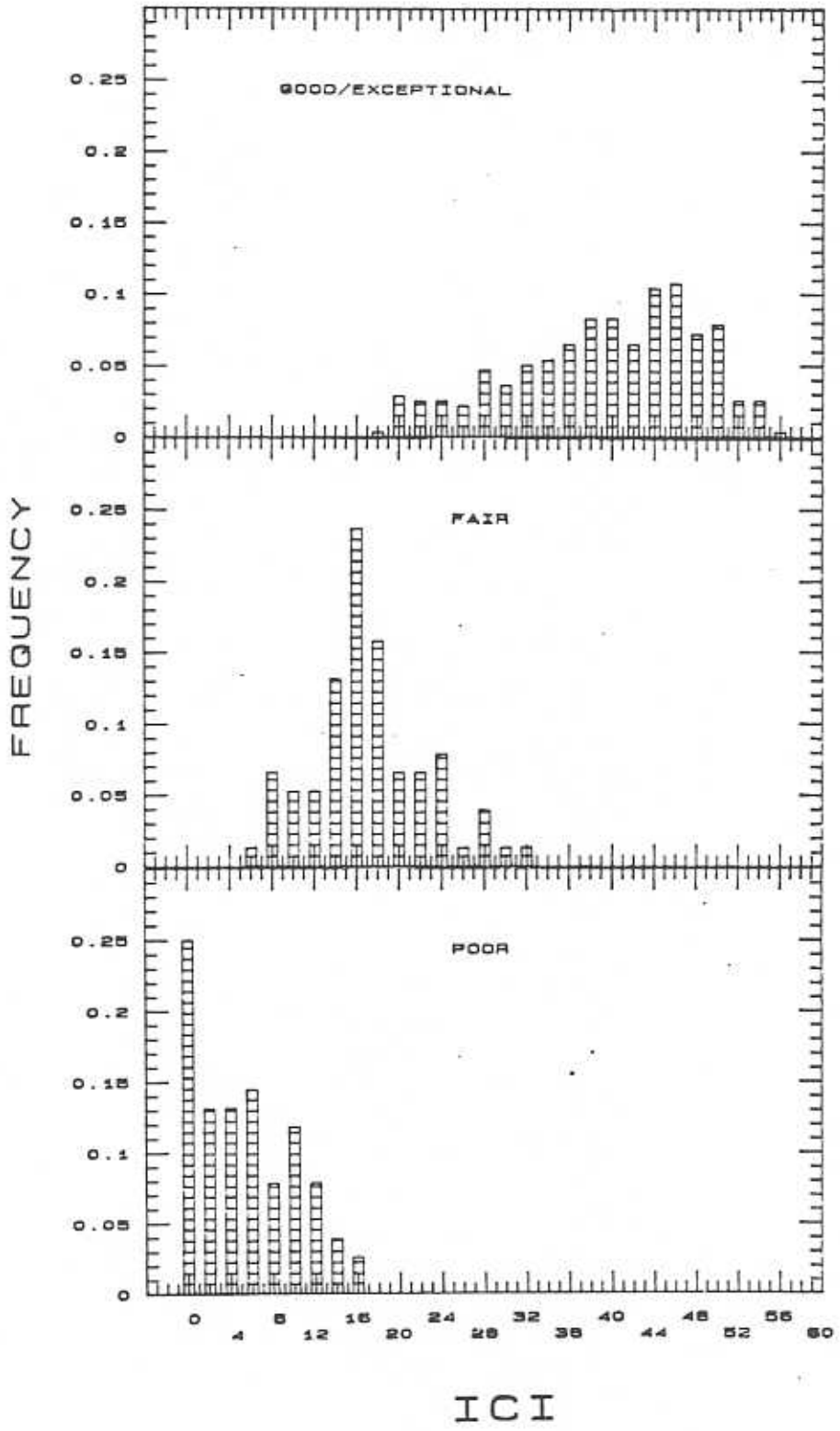

Figure 6-8. Relative frequency histograms of ICI values determined for macroinvertebrate samples collected in Ohio from 1981-84 with prior evaluations of good or exceptional (n=279), fair (n=76), and poor (n=76).

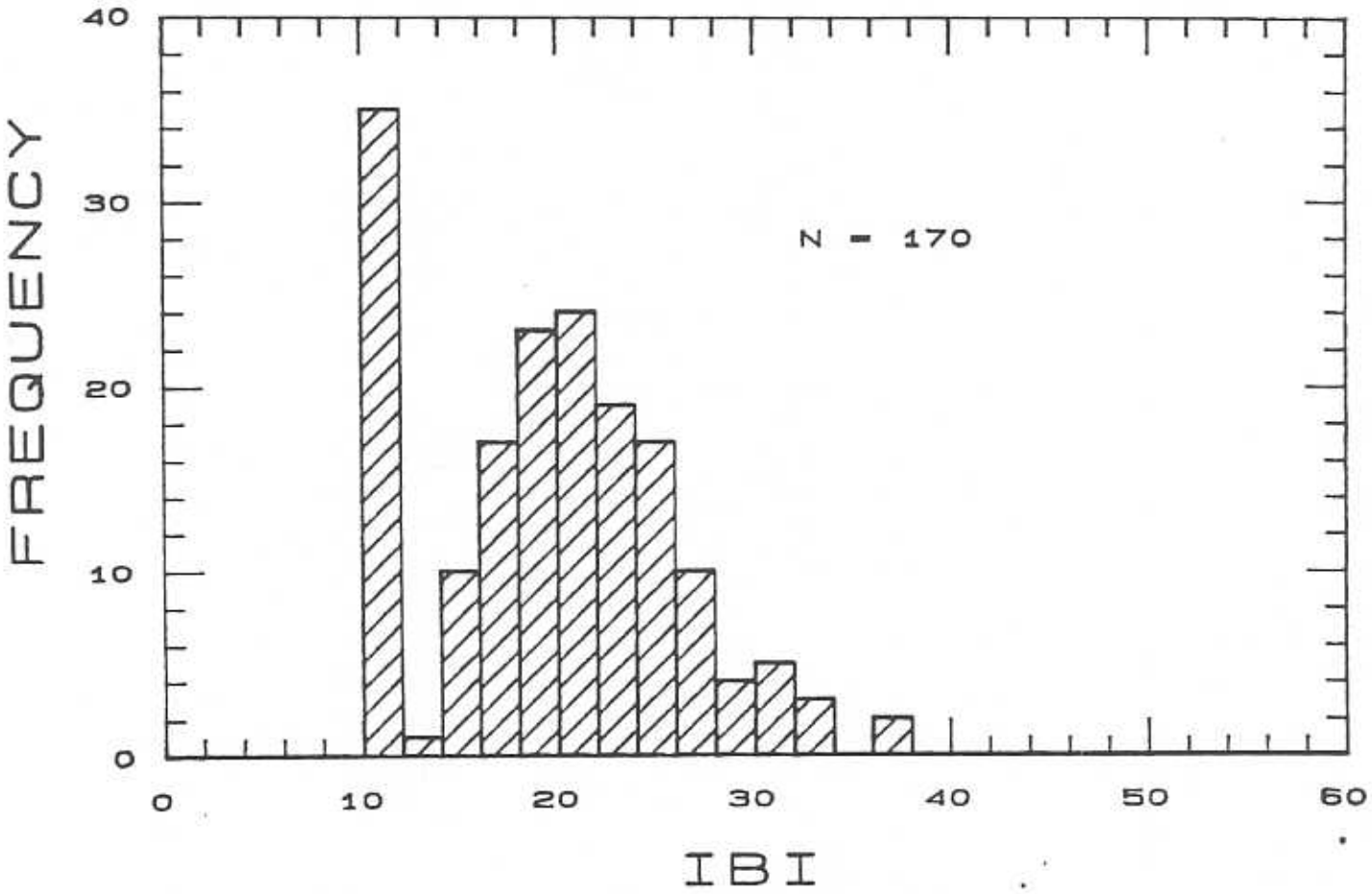

Figure 6-9. Frequency histogram of Index of Biotic Integrity (IBI) values at all wading and headwaters sites in the HELP ecoregion during 1979-1986.

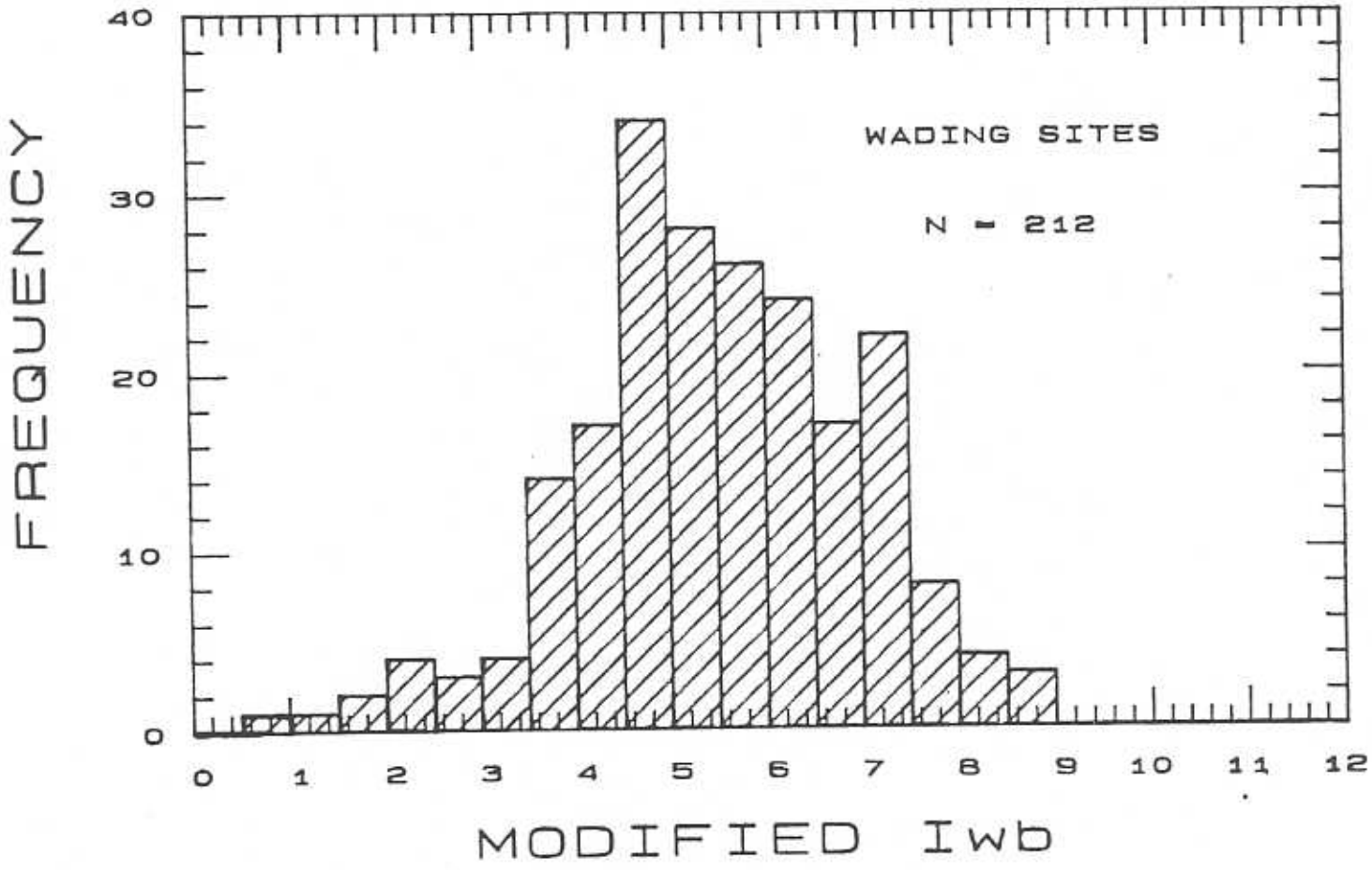

Figure 6-10. Frequency histogram of Modified Index of Well-Being (Iwb) values at all wading sites in the HELP ecoregion during 1979-1986.

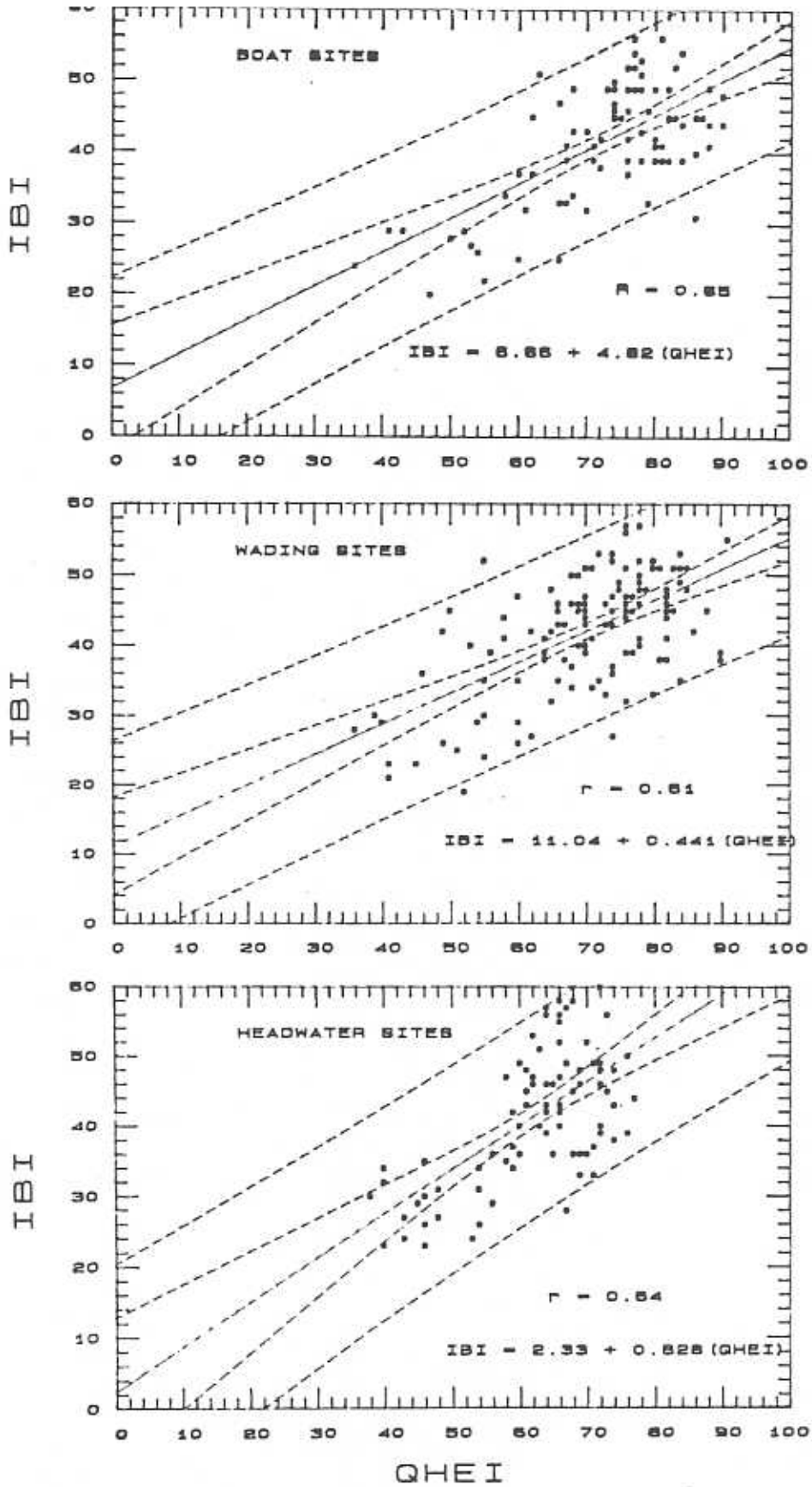

Figure 6-11. Linear regression analysis of the relationship of QHEI to IBI at wading (top), boat (middle), and headwaters (bottom) reference sites for MWH and WWH. Correlation coefficients (r) are significant at the $P < 0.001$ level. Dashed lines represent the regression line (middle), 95% confidence interval (closest to regression line), and the prediction limits (outside).