

TABLE 19. Comparison of growth over time by area covered (dm^2/m^2) in upland *H. helix* from a randomized block design experiment replicated 10 times (and three paired plot experiments)

| Characteristics | Treatments | | |
|-------------------------------|------------------|----------------------|-------------------------|
| | 1 year of growth | 1.25 years of growth | control no treatment |
| Standard deviation | 25.8 | 18.6 | 0.2 |
| Mean dm^2/m^2 | 70.2 | 82.4 | 99.9 |

Bartlett's: $\chi^2_{2 \text{ df}}$ original data = 71.505; significant variance beyond 0.001; arc sine transformed = 29.391; significant variance beyond 0.001; $\sqrt{(100 - x) + 0.5}$ trans. = 40.980; significant variance beyond 0.001; logarithmic trans. = 81.175; significant variance beyond 0.001.

Biology: There appears to be significant differences among all the means.

Paired plot analysis of randomized block data;

results: control and 1 year growth, modified $t_{9 \text{ df}} = 3.639$; significant at 0.01;
 control and 1.25 years growth, modified $t_{9 \text{ df}} = 2.959$; significant at 0.02;
 1 year and 1.25 years growth, unmodified $t_{9 \text{ df}} = 4.285$; significant at 0.005.