

TABLE 55. Comparison of light by percent of open sunlight in forested habitats on 20 March 1972, with and without *H. helix* and *L. japonica* from simple random sampling design surveys on arc sine transformed data

| Characteristics    | Habitats                |                                       |                        |                             |                    |                                       |
|--------------------|-------------------------|---------------------------------------|------------------------|-----------------------------|--------------------|---------------------------------------|
|                    | Flood plain, no exotics | <i>L. japonica</i> natural understory | <i>H. helix</i> upland | <i>H. helix</i> flood plain | Forest, no exotics | <i>L. japonica</i> cleared understory |
| No. of stations    | 10                      | 8                                     | 10                     | 8                           | 10                 | 10                                    |
| Mean percent       | 84.6                    | 84.0                                  | 84.6                   | 85.8                        | 86.1               | 95.5                                  |
| Arc sine mean      | 67.4                    | 67.6                                  | 67.7                   | 68.6                        | 68.7               | 79.1                                  |
| Duncan's 1% test   | _____                   |                                       |                        |                             |                    | _____                                 |
| Duncan's 0.5% test | _____                   |                                       |                        |                             |                    | _____                                 |
| Corrected mean     | 85.3                    | 85.5                                  | 85.6                   | 86.7                        | 86.8               | 96.4                                  |

Note: see Table 2 for note regarding Duncan's test.

Analysis of variance:  $F_{5/50 \text{ df}} = 4.032$ ; significant at 0.005.

Bartlett's:  $\chi^2_{5 \text{ df}} = 3.056$ ; no significant variance at 0.01.