

Table 4. Effect of *Dactyloctenium aegyptium* grass density on absolute and relative growth reduction of different species in relation to bare dune plantation. Significant at: *P<0.05; **P<0.01.

| Habitat Growth parameters | Species | Height reduction | | | | | | Crown diameter reduction | | | | | |
|---|------------------------|------------------|------------|-------------|-------------|-------------|-----------|--------------------------|-------------|--------------|----------|---------|---------|
| | | Absolute | | | Relative | | | Absolute | | | Relative | | |
| | | 1996-97 | 1997-98 | 1996-97 | 1996-97 | 1997-98 | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 | 1996-97 | 1997-98 |
| Semistabilized dune plantation (SP) | <i>A. tortilis</i> | 16 ± 3.5 | 35 ± 2.6 | 0.17 ± 0.03 | 0.19 ± 0.02 | 0.19 ± 0.02 | 19 ± 3.8 | 10 ± 0.9 | 0.22 ± 0.04 | 0.08 ± 0.003 | | | |
| | <i>C. polygonoides</i> | 29 ± 4.1 | 32 ± 7.4 | 0.31 ± 0.02 | 0.19 ± 0.03 | 0.19 ± 0.03 | 37 ± 1.0 | 67 ± 10.5 | 0.37 ± 0.02 | 0.32 ± 0.02 | | | |
| | <i>P. juliflora</i> | 84 ± 9.2 | 133 ± 26.2 | 0.55 ± 0.02 | 0.55 ± 0.06 | 0.55 ± 0.06 | 35 ± 8.5 | 166 ± 13.5 | 0.23 ± 0.05 | 0.57 ± 0.02 | | | |
| Flatland plantation (FL) | <i>A. tortilis</i> | 23 ± 3.7 | 75 ± 7.4 | 0.25 ± 0.02 | 0.40 ± 0.04 | 0.40 ± 0.04 | 31 ± 3.8 | 24 ± 4.0 | 0.36 ± 0.03 | 0.17 ± 0.04 | | | |
| | <i>C. polygonoides</i> | 63 ± 9.3 | 98 ± 5.5 | 0.69 ± 0.04 | 0.58 ± 0.02 | 0.58 ± 0.02 | 66 ± 0.3 | 138 ± 11.0 | 0.68 ± 0.02 | 0.65 ± 0.01 | | | |
| | <i>P. juliflora</i> | 103 ± 14.2 | 195 ± 29.8 | 0.67 ± 0.03 | 0.76 ± 0.05 | 0.76 ± 0.05 | 102 ± 7.0 | 234 ± 19.1 | 0.67 ± 0.02 | 0.80 ± 0.02 | | | |
| F values | | | | | | | | | | | | | |
| | Habitat | 9.06* | 14.55** | 72.57** | 76.79** | 76.79** | 77.32** | 29.07** | 151.2* | 226.9** | | | |
| | Species | 40.28** | 27.97** | 108.8** | 49.51** | 49.51** | 38.04** | 126.4** | 33.14** | 509.8** | | | |
| | H x S | 1.36 | 0.30 | 16.92** | 4.01* | 4.01* | 15.63** | 3.88* | 13.30** | 24.16** | | | |