
R.S. SINGH, J.B. YADAV, H.P. SINGH AND AANJANI KUMAR SINGH


---

**SUMMARY**

For management of Parthenium weed a study was undertaken to know the population dynamics of *Zygogramma* and its role in management of congress grass. The highest number of *Zygogramma bicolorata* were observed in month of May and August in year 2005 and 2006. Temperature, relative humidity and rainfall showed significant positive, whereas maximum temperature showed significant negative influence on grub and adult activity of this insect. Biocontrol efficacy of this predator was tested with ten treatments in caged pots which comprised of release of 1 adult/plant (*T*$_1$), 2 adult/plant (*T*$_2$), 3 adult/plant (*T*$_3$), 4 adult/plant (*T*$_4$), 5 adult/plant (*T*$_5$), 6 adult/plant (*T*$_6$), 7 adult/plant (*T*$_7$), 8 adult/plant (*T*$_8$) and 9 adult/plant (*T*$_9$) and 0 adult/plant i.e control (*T*$_0$). The studies indicated that the release of *Zygogramma* 9 adult/plant (*T*$_9$) effectively reduced the no. of leaves (2.66), number of flowers (85.5) and plant height(39.36 cm) after 15 days of release of *Zygogramma bicolorata* and plant showed, bushy appearance and stunted growth.

---

**Key words :**


---

Accepted:

**February, 2009**