

## Metabolic changes in siamweed, *Chromolaena odorata* induced by feeding of weed killer, *Pareuchaetes pseudoinsulata* (Arctiidae: Lepidoptera)

K.R. Lyla, C.C. Abraham, P.J. Joy

### Abstract

The arctiid caterpillar, *Pareuchaetes pseudoinsulata* Rego Barros, has been identified as a potential bio-control agent of the Siam weed, *Chromolaena odorata* King and Robinson. The present studies were to assess the metabolic changes in the plants induced by larval feeding. The total nitrogen content in leaf samples showed significant variations on 4th, 6th, 8th, 10th, 12th, and 15th days after releasing variable number of *Pareuchaetes* larvae. Total nitrogen was maximum in the leaves, on the sixth day of release of four larvae per plant. Leaf nitrogen showed a declining trend when the larval load per plant was increased from the eighth day of release onwards. The nitrogen content was the least on 15th day after release of twelve larvae. Nitrate nitrogen content showed an increasing trend with increasing number of larvae and days after release. Chlorophyll content in the leaves got reduced significantly with increased larval population load in plants and with the passage of time of confinement of larvae.

Full Text: [PDF](#)

### Reading Tools

#### Metabolic changes...

*Lyla, Abraham, Joy*

- [Review policy](#)
- [About the author](#)
- [How to cite item](#)
- [Indexing metadata](#)
- [Print version](#)
- [Look up terms](#)
- [Notify colleague\\*](#)
- [Email the author\\*](#)

#### RELATED ITEMS

- [Author's work](#)
- [Related studies](#)
- [Government policy](#)
- [Book searches](#)
- [Relevant portals](#)
- [Databases](#)
- [Online forums](#)
- [Data sets](#)
- [Pay-per-view](#)
- [Media reports](#)
- [Web search](#)

#### SEARCH JOURNAL

  
  

CLOSE

\* Requires [registration](#)