## Scenario of insect pests on Ashwagandha (*Withania somnifera*) in the plains of Chhattisgarh

Akash Nirmal, Jayaram C.S., J.L.Ganguli and Alice Tirkey\* Department of Entomology, \*Department of Genetics and Plant breeding, CoA, IGAU, Raipur (C.G.

Email: csjayaram182@gmail.com

Withania somnifera, an important medicinal plant known for its rejuvenating properties is also called as the Indian Ginseng (Ahmad, et al. 2005). Roots, leaves and occasionally seeds of W. somnifera are used in ayurvedic and unani medicines. Roots contain several alkaloids and withaniols prescribed as medication for hiccups, several female disorders, rheumatism, dropsy, lung inflammation, stomach and skin diseases. It is also an ingredient of tonics prescribed for curing disability and sexual weakness in males. Like other crops, Ashwagandha is infested by many insect pests.

The larvae of *Deilephila nerii* were found defoliating the leaves of ashwagandha. Three of Coleopterans were found feeding species on the leaves. Henosepilachna vigintioctopunctata (Coleoptera: Coccinellidae) was predominant at early stages of the crop. Both adults and grubs cause damage to the leaves and tender parts by scraping the epidermal layer in a very characteristic manner leaving a netted pattern. The incidence of Epilachna beetle resulted incomplete skeletonized leaves during heavy infestation, at later stages of crop growth. Finally, the plants dried and withered down. of green plant bug, Nezara virudula, a polyphagous pest, were observed to suck the sap from leaves and buds of ashwagandha. Helicoverpa sp. was found feeding on leaves and also boring into buds, flowers and fruits.

Table: Insect pests recorded on Ashwagandha.

Sl.no.	Insect species	Order:Family
01.	Henosepilachna vigintioctopunctata	Coleoptera: Coccinellidae
02.	Deilephila nerii.	Lepidoptera: Sphingidae
03.	<i>Helicoverpa</i> sp.	Lepidoptera: Noctuidae
04.	Nezara virudula	Hemiptera: Pentatomidae
05.	Leaf miner	Lepidoptera: Gelechidae

## References

Ahmad, M., Saleem, S., Ahmad, A.S., Ansari, M.A. Yousuf, S. and Hoda, M.N. 2005. Neuroprotective effects of *Withania somnifera* on Hydroxydopamine induced Parkinsonism in rats. *Human and Experimental Toxicology*, **24**(3): 137–147

Ramanna, D. 2009. Investigation of Pest Complex of Medicinal Pests and their Management with Special Reference to Ashwagandha (*Withania somnifera*). M.Sc. Thesis. University of Agricultural Science, Dharwad.

Mathur, A.C. and Srivatsava, J. B., 1964, *Epilachna vigintioctopunctata* (Coccinellidac: Coleoptera) as defoliated of some medicinal plants. *Journal of Entomology*, **26**: 246





Henoepilachna vigintioctopunctata (Adult)

Henoepilachna vigintioctopunctata (Grubs)



Leaf miner damaged on leaf.