

Economically important species of white grubs with their host plant records and geographical distribution

Sl. No.	Taxon Group	Host records		Geographical distribution
		Larval	Adult	
1	2	3	4	5

S.F.: MELOLONTHINAE

1. Apogonia

1.1 *A.aerea* Bl. Millets, Grapes Guava, Rose, Grapevine **KARNATAKA:** Bangalore; **T.N.:** Coimbatore, Pondicherry

1.2 *A.ferruginea* Fabr. Millets, Grapes Guava, Grapes, Rose **KARNATAKA:** Bangalore; **T.N.:** Coimbatore, Koramandal

1.3 *A.rauca* (F.) Millets and flowers Rose leaves **KARNATAKA:** Bangalore; **T.N.:** Coimbatore, Koramandal; **A. & N.IS.:** Port Blair

2. Brahmia

*2.1 *B.(Holotrichia) coriacea* Hope Millet, Upland paddy, Seed potato, Cedar nursery Pear, Apple Uttish (*Alnus nepalensis*) **H.P.:** Shimla: Shilaroo; Mashobra; **U.P.:** Bangar Syosi

2.2 *B.mysorensis* Frey Groundnut, Tamarind Neem, Ber, **KARNATAKA:** Bangalore: Ramanagara; Chikmagalur: Mudigere; Mandya: K.R.S.; Shimoga, Tumkur; **KERALA:** Mallapura, Peechi; **A.P.:** Tirupathi, T. Sundupalli, G. Milla

3 Holotrichia

3.1 *H.bicolor* Br. Coffee & Coconut nursery Rose, Guava, *Ficus* spp. **KARNATAKA:** Bangalore, Coorg, Chikmagalur, Dakshina Kannada districts; **KERALA:** Peechi, Idukki districts; **T.N.:** Coonoor, Byangi districts

1	2	3	4	5
*3.2	<i>H.consanguinea</i> Bl. Bl.	Groundnut, Sugarcane	Neem, <i>Acacia</i> , Ber (Jujube), Cluster fig, (gular), Jambolana (Jamun), Drumstick	KARNATAKA: Shimoga, Raichur, Dharwad districts; KERALA: Malabar coast; A.P.: Hyderabad (ICRISAT); U.P.: Kanpur, Raniket; RAJASTHAN: Bareli, Jobner, Jaipur; GUJARAT: Anand; PUNJAB: Ludhiana, Patiala, Sangrur, Kapurthala districts
3.3	<i>H.sp.nr.</i> <i>consanguinea</i> Bl.	Groundnut	Neem, <i>Acacia</i> , Ber, <i>Buta</i> <i>monosperma</i>	KARNATAKA: Raichur, Gulbarga, Belgaum districts; A.P.: Hyderabad, Guntur, Mahboobnagar, Anantapur; GUJARATH: Ahmednagar, Anand; RAJASTHAN: Saipur, Udaipur; MAHARASHTRA: Nagpur, Solapur; Jalgaon, Aurangabad
3.4	<i>H.(Sophrops)</i> <i>costata</i> Walker	Coffee, Cocoa	Cinnamun, <i>I.coccinea</i>	KARNATAKA: Mangalore: Ullal, Vittal; Chikmagalur: CCRI, Balehonnur; SRI LANKA: Maho
3.5	<i>Neodontocnema</i> (<i>Holotrichia</i>) <i>excisa</i> (Moser)	Coffee	<i>Fagerua</i> <i>zeylarica</i> , <i>Olea dioica</i> , <i>Clerodondrum</i> <i>viscosum</i> , <i>Solandra guttata</i> , <i>Aporosa, lindleyana</i>	Coffee belt in Western Ghats and Nilgiri Hills
3.6	<i>H. farinosa</i>	Coffee	<i>Ficus</i> spp.	T.N.: Ooty, Kotagiri, Kilkotagiri, Ithalar, Milidane, M. Pallada, Nadukatt, Nanjanad, Vijayanagaram, Nilgiri Hills
3.7	<i>H.fissa</i> Br.	Sugarcane, Coffee, Hort. nurseries, Cotton	<i>Acacia catechu</i> , Pomogranate, Ber, Guava, Rose <i>Terminalia, arjuna</i> , <i>Gymnosporia sp.</i> <i>Diospyros, chloroxylon</i>	KARNATAKA: Chikmagalur: Mudigere, Balehonnur; Bangalore: Lalbaugh; Coorg: Nellur, Suntikoppa; Shimoga: Sagar, Jog falls; S. Kanara: K. Hosamane; U.P.: W. Almora, Dehra Dun; MAHARASHTRA: Kolhapur, Bombay; A.P.: Mahboobnagar BURMA: Kothan

1	2	3	4	5
3.8	<i>H.(Sophrops) iridipennis</i> Br.	Potato, Ginger, Upland paddy	Leaves and fruits of plum	W.B.: Berhampur; H.P.: Solan; SIKKIM: Gangtok; BURMA
3.9	<i>H.(Sophrops) karschi</i> Br.	Coffee Cinnamun,	<i>Ficus</i> spp. Rose	KARNATAKA: Chikmagalur:Mudigere; Coorg:Chatthalli; Shimoga: Thirthahalli; S.Kanara; KERALA: Idukki; T.N.: Gudalur, Pandicherry
*3.10	<i>H.longipennis</i> Bl.	Potato, Maize, Upland paddy, Vegetables	Apple, Plum Peaches,Walnut Yellow rosberry (<i>Rubus ellipticus</i>), Hishalu (<i>Rubus ellipticus</i>), Chestnut	U.P.: Almora, Ranichauri, Jolikote, Kumaun Hills, Hawalbagh district; SIKKIM: Jeoli district; H.P.: Shimla, Palampur, Solan; W.B.: Darjiling; PUNJAB: Legong, Telong; W. Himalayas
*3.11	<i>H.nilgiria</i> Arrow	Coffee	Cinnamun, <i>Ficus</i> spp., Saplings, Coffee plant-ations	KARNATAKA: Chikmagalur, Coorg, Hassan districts; T.N.: Nilgiri Hills; KERALA: Malabar
3.12	<i>H.repetita</i> Sharp	Coffee, Potato	Cinnamun, <i>Ficus</i> sp.	T.N.: Coimbatore; Ooty: Milidane, Kilkothagiri, Nilgiri Hills
*3.13	<i>H.reynaudi</i> Bl.	Groundnut Ber, Neem,	<i>Jujube</i> , <i>Acacia</i> , Tamarind, Rose, Guava Moringa, Oilseeds, Vegetables, Horsegram	KARNATAKA: Bangalore,Kolar,Bidar, S. Kanara, Shimoga, Tumkur, Chikmagalur, Hassan districts; U.P.: Kanpur; T.N.: Chidambaram, Virudhachalam, Tiruvannamalai; RAJASTHAN: Jodhpur (CAZRI); A.P.: Hyderabad (ICRISAT) <i>Moriaca</i> sp.,
3.14	<i>H.rufolava</i> Br.	Groundnut, Sugarcane, Millets	Ber, Neem, Rose, Sigara	KARNATAKA: Bangalore (Lalbaugh); RRS, Shimoga; T.N.: Virudhachalam, Ooty, Tiruvannamalai, Coimbatore; C. INDIA

1	2	3	4	5
3.15	<i>H. (Sophraps) sculpticollis</i> Bl.	Coffee, Ginger, Cinnaman	Rose, <i>Ficus</i> spp.,	KARNATAKA: Coorg, Chikmagalur, Shimoga districts; ASSAM: Jorhat; U.P.: Kumaon KERALA: Vellanikkara, Idukki; SIKKIM: Gangtok; A. & N.I.S.: Port Blair; MAHARASHTRA: Bombay
*3.16	<i>H. serrata</i> Fabr.	Maize, Sorghum, Sugarcane, Millets, Groundnut	Neem, Tamarind, babul (<i>Acacia arabica</i>), Palas (<i>Butea monosperma</i>), guava, grapevine	KARNATAKA: Bangalore, Mysore, Coorg, S. Kanara, Gulbarga, Chikmagalur, Mandya, Raichur, Shimoga, Tumkur districts; U.P.: Kanpur; T.N.: Virudhachalam, Tiruvannamalai, Madras, Coimbatore; RAJASTHAN: Jaipur; W.B.: Calcutta; KERALA: Idukki; Myladumpara; MAHARASHTRA: Kolhapur, Parbhani, Nanded, Sangli; GUJARATH: Ahmedabad, Rajkot, Anand, Siddhapur, Amreli; A.P.: Hyderabad (ICRISAT)
*3.17	<i>H. seticollis</i> Moser	Potato, Ginger	Pear, <i>Ficus</i>	U.P.: Almora, Ranichauri, Gwaldam, Dehra Dun, Jeoli, Syosi; Puri: Bangar; H.P.: Palampur, Edon; W.B.: Calcutta; ASSAM: Jorhat
3.18	<i>H. sikkimensis</i> Br.	Potato, Ginger	Pear, <i>Ficus</i> , Peach	H.P.: Palampur, Shimla, Manali, U.P.: Dehra Dun; SIKKIM: Gangtok, Rampur
4.	<i>Lepidiota</i>			
4.1	<i>L. stigma</i> (F.)	Groundnut, Sugarcane	<i>Ficus</i> , Peach,	U.P.: Almora; N.E. INDIA: Dinhaanata, Bangsaphan
5.	<i>Leucopholis</i>			
*5.1	<i>L. burmeisteri</i> Br.	Arecanut, Coconut	<i>Ficus</i> sp., <i>Acacia</i> , torta, Mango, Guava, <i>Artocarpus heterophyllus</i> Roxb., <i>Ficus asperrima</i> , <i>Ficus racemosa</i> , <i>Syzygium zealanicum</i> L. <i>Grewia microcos</i>	KARNATAKA: Chikmagalur: Amthi, Begane, Sringeri

1	2	3	4	5
*5.2	<i>L.coneophora</i> Burm.	Coconut, Arecanut, Coffee	<i>Ficus</i> sp., <i>Anacardium</i> <i>occidentale</i> , <i>Artocarpus</i> <i>heterophyllus</i> , <i>Artocarpus</i> <i>hirsutum</i> , <i>Ficus</i> <i>asperrima</i> , <i>Syzygium zealanicum</i> , Leaves	KARNATAKA: S. Kanara: Kota, Udupi, K. Hosamane, Brahmavar, Mangalore; KERALA: Vellanikkara, Kayangulam, Kasargod
*5.3	<i>L.lepidophora</i> Bl.	Arecanut, Coconut, Coffee, Sugarcane, Paddy, Bamboo, <i>Phoenix</i> sp. Cocoa, Butter fruit	<i>Ficus</i> sp., & members of the family Anacardiaceae, Fabaceae, Moraceae, Myrtaceae, Tiliaceae	KARNATAKA: Shimoga: Thirthahalli, Sagar; Chikmagalur: Sringeri; Coorg: Chettahall; S. Kanara: Vittal; N. Kanara: Sirsi; MAHARASHTRA: Kolhapur, Sangli
6.	<i>Maladera</i>			
6.1	<i>M.indica</i> Bl.	Groundnut	Rose, Neem	T.N.: Ooty: Coonoor, Oranall, Kappachi, Nilgiris
*6.2	<i>M.insanablis</i> Br.	Groundnut, Chilli, Okra, Brinjal, Pearl- millet, Lucerne, Alfalfa, Onion, Cucurbits, roots, rootlets, root hairs of the plants	Rose, Neem, Lucerne, Cucurbits, Rose wood tree, Khejri (<i>Prosopis</i> <i>cineraria</i>), Babul roots, rootlets, (<i>Acacia nilotica</i>), Ber (<i>Zizyphus</i> <i>auriculata</i>)	RAJASTHAN: Jaipur, Jodhpur
7.	<i>Melolontha</i>			
7.1	<i>M. furcicauda</i> Br.	Potato Plum & peaches	<i>Ficus</i> spp.,	U.P.: Ranichauri

1	2	3	4	5
---	---	---	---	---

8. Schizonycha

8.1	<i>S.fuscescens</i> Blanch.	Millets	Zygyus, Rose, Guava, Neem	KARNATAKA: Bijapur, Raichur, Shimoga, Gulbarga districts; RAJASTHAN: Jaipur; A.P.: Hyderabad, T. Sundupalli, Ananthapur, Tirupati
8.2	<i>S.ruficollis</i> Br.	Millets, Grapes, Groundnut	Ber, Tamarind, Neem, Rose,	KARNATAKA: Bangalore, Mandya, Hassan, Mysore, Shimoga and Coorg districts; U.P.: Ranichauri; T.N.: Coimbatore

S.F.: RUTELINAE

1. Adoretus

1.1	<i>A. bicolor</i> Br.	Grapes	Grapevine, Rose	KARNATAKA: Bangalore: Doddaballapur; Chikmagalur: Mudigere, Balehonnur; Hassan: Arasikere; Raichur, Bidar, Shimoga, Mandya,Coorg, Dharwad, Gulbarga, Tumkur districts; U.P.: Kanpur; T.N.: Coimbatore; KERALA: Vellanikkara; MAHARASHTRA: Kolhapur; PUNJAB: Ludhiana
1.2	<i>A. punjabensis</i> Arrow	Groundnut	Grapevine, Rose	RAJASTHAN: Jaipur, Jobner; PUNJAB: Multan
1.3	<i>A. versutus</i> Harold	Grapes, Forest nurseries	Grapesvine, <i>Ficus</i> , Rose	KARNATAKA: Bangalore,Coorg,Bidar,S.Kanara,Hassan, Dharwad, Shimoga, Gulbarga, Bijapur, Bellary, Raichur, Chikmagalur districts; M.P.: Jabalpur; U.P.: Ranikhet, Jolikote; T.N.: Coimbatore, Trichirapalli; A.P.: Thirumala Hills, Ananthapur, Hyderabad; MAHARASHTRA: Kolhapur; BIHAR: Pusa; W.B.: Calcutta, Sundarbans, Darbhanga, Murshidabad, Goalbathan; A. & N. IS.: ASSAM: Jorhat

1	2	3	4	5
2.	Anomala			
2.1	<i>A. bengalensis</i> Blanch.	Vegetables and forest nurseries, Groundnut	Neem, Tamarind	KARNATAKA: Bangalore, Tumkur, Raichur, Shimoga, Chikmagalur, N.Kanara, Mandya districts; T.N.: Coimbatore; A.P.: Tirupati; MAHARASHTRA: Kolhapur; U.P.: Kanpur; Dehra Dun, Bulanshar, Fathepur, Saharanpur, Shakarpur; W.B.: Varanasi, Calcutta, Chota Nagpur; PUNJAB: Katha Rawal Pindi; RAJASTHAN: Jobner, Jaipur BURMA: Mandalay
*2.2	<i>A. dimidiata</i> (Hope)	Barnyard millet, Potato Upland rice, Fingermillet, Chilli, Maize, <i>Amaranthus</i> , Wheat crop	Apple, Walnut Plum, Apricot, Peach, Uttish (<i>Alnus nepal- ensis</i>) Tunn (<i>Toona ciliata</i>), Poplar (<i>Populus</i> Chawai; sp.), Bhimal (<i>Grewia opuva</i>), Hishalu (<i>Rubus ellipticus</i>), Gulbahar (<i>Lageretomea indica</i>)	RAJASTHAN: Jobner,Jaipur; J. & K.: R.S. Pura, Campbell; U.P.: Almora, Dehra Dun, Gwaldam, Garhwal, Sitoli, W. Almora, Jeoli, Nainital, Ranikhet, Hawalbagh, Puri: Syosi/Bangar; H.P.: Kullu valley; SIKKIM: Mungphu; W.B.: Bagdogra Range, Karisyang; BIHAR: Pusa; PUNJAB: Kangra Valley; U.P.: MEGHALAYA: Shillong; Khasi Hills; A. & N. IS.: S. Andaman including Neil Is., Port Blair, Tushnabad, Garacharma, Bloomsdale
2.3	<i>A. lineatipennis</i> Blanch.	Potato	Apple, peach Apricot	U.P.: Ranichauri, Dehra Dun, Almora, Someshwar, Mussoorie, Ramgarh, Jolikote, Ranikhet, Nainital, W. Almora, Chatrata: Bodyar; NEPAL: Khatmandu; H.P.: Kullu valley, Naldera, Shimla; W.B.: Buxar Duars
S.F.	CETONIINAE			
1.	<i>Clinteria</i> sp.	N.A.	Apple	H.P.: Palampur; Karsog valley

1	2	3	4	5
---	---	---	---	---

S.F.: DYNASTINAE

1. *Phyllognathus*

1.1 *P. dionysius* (Fabr.) Sugarcane, Paddy *Ficus* spp. **KARNATAKA:** Bangalore; **U.P.:** Ranichauri; **SIKKIM:** Gangtok

2. *Xylotrupes*

2.1 *X. gideon* Forest nurseries, horticultural nurseries *Ficus* spp. **KARNATAKA:** Chikmagalur: Mudigere, Kemmannugundi; **MEGHALAYA:** Shillong; **H.P.:** Palampur, Shimla