

Article

Biodiversity of aphidophagous predators in Ayodhya district, Uttar Pradesh, India

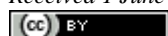
Krishna Manohar Tiwari¹, Prem Narayan Tripathi¹, Rajendra Singh²

¹Department of Zoology, K.S. Saket P.G. College, Ayodhya, U.P., India

²Department of Zoology, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur, U.P., India

Email: rsinghgpu@gmail.com

Received 1 June 2024; Accepted 25 June 2024; Published online 30 July 2024; Published 1 September 2024



Abstract

An updated checklist of faunal biodiversity of the spiders, in two northern states of India, Uttar Pradesh and Uttarakhand is presented herewith. A total of 520 species of spiders described under 236 genera belonging to 50 families were recorded in both the states of north India. The biodiversity of spiders is more in Uttar Pradesh (284 species, 146 genera, 36 families) than Uttarakhand (373 species, 202 genera, 45 families). However, most of the areas in both the states are still virgin regarding the faunal survey programmes and need intensive and extensive survey in those areas by enthusiastic workers.

Keywords Uttar Pradesh; Uttarakhand; spiders; Araneae; checklist; faunal distribution.

Arthropods

ISSN 2224-4255

URL: <http://www.iaees.org/publications/journals/arthropods/online-version.asp>

RSS: <http://www.iaees.org/publications/journals/arthropods/rss.xml>

E-mail: arthropods@iaees.org

Editor-in-Chief: WenJun Zhang

Publisher: International Academy of Ecology and Environmental Sciences

1 Introduction

The aphids (Hemiptera: Aphididae) are soft-bodied plant sap-sucking insects infesting almost all parts of several species of plants. Few of them are major pests of agricultural and horticultural crops. They are widely distributed but are most abundant in temperate climates (Singh and Singh, 2019). Globally, more than 250 species of aphids are notorious pests of both agricultural and horticultural crops (Singh and Singh, 2016). Sometimes, the damage in some crops is to the extent that nothing remains to harvest, particularly in the case of some cereals, potatoes and mustard. There are a number of unique features that contribute to the success of aphids. These include their polyphagous nature, their peculiar mode of reproduction, development, and polymorphism. According to the climatic conditions and availability of the food plants, they may reproduce either by parthenogenesis, zygogenesis, or pedogenesis. They may either be oviparous or viviparous (Singh and Singh, 2022).

A sustainable pest management programmes essentially require rich biodiversity of natural enemies of the

pest insects. Aphidophagous predators are important natural agents that keep the aphid population under check on different crops (Singh and Singh, 2016). Several species of predators have been used in biological control of aphids throughout the world (Völkl et al., 2007; Chellappan and Ranjith, 2023). Aphid predators belong to four orders of insects: Coleoptera (families Coccinellidae and Carabidae), Diptera (families Chamaemyiidae, Syrphidae, and Cecidomyiidae), Hemiptera (families Anthocoridae and Geocoridae), and Neuroptera (family Chrysopidae) (Singh and Singh, 2016). Among them, coccinellids commonly known as ladybird beetles are most common aphid predators encountered throughout the world. Aphidophagous coccinellids have a long history of importation in classical biocontrol with only few recognized successes (Hodek and Honek, 1996; Pervez et al., 2020). In a view to explore the biodiversity of aphidophagous predators in Ayodhya district, Uttar Pradesh, an intensive and extensive survey of agricultural, horticultural fields and wild plants were conducted to record the aphidophagous predator complex as no survey work has yet been conducted in this area. Earlier, some districts of eastern Uttar Pradesh have been surveyed for aphids and their natural enemies (Agrawal and Singh, 2005; Mall, 2013).

2 Materials and Methods

2.1. Site of survey work

Ayodhya district (formerly Faizabad) (area: 2,764 km²; latitude: 26.75907 to 26.83907 N; longitude: 82.16523 to 82.24523 E; average elevation: 94 m) is one of the 75 districts of Uttar Pradesh, a northern state of India. It is sharing border with Ambedkar Nagar district to the southeast, Barabanki district to the west, Basti district to the east, Gonda district to the north, Sultanpur and Amethi districts to the south (Fig. 1). Most of the lands in the district are used for agriculture purposes. The chief agricultural products in the district are wheat, rice, oil seed, maize, gram, pea, different types of pulses, sugarcane, onion, potato, tomato, brinjal, brassica and cucurbit vegetables etc. An extensive survey for aphid infestation alongwith their natural enemies was made in several villages of the districts both on cultivated as well as wild plants.

2.2 Collection, preservation and identification

Aphids in the fields are often collected on the plant material as tender leaves, apical portion, stem, flower, twigs, fruits, inflorescence, root, bark, bud by cutting that part and placed in a plastic bags and tightened with a rubber bands or plastic vials of standard width with cotton plug and were brought back to the laboratory. Then, some aphids were transferred to the glass vials (4 x 0.5 cm) containing 70 per cent ethyl alcohol and glycerol (5:1) for taxonomical studies. The aphids were mounted in Berlese medium after clearing.

For obtaining predators, adult specimens as well as their larvae and sometimes eggs were reared along with aphid colonies in plastic containers, the open mouth of which were tied with thick mesh muslin cloth.

Aphids were identified with the help of Aphid Taxakey (Aphids on the World Crops) (computer software developed by CAB, London, British Museum Natural History, London; Blackman RL, Eastop VF, Kibby GG, 1997) and also following the key provided in Indian literatures (Ghosh, 1980, 1982a, b, 1984, 1988; Ghosh and Quednau, 1990; Ghosh and Agarwala, 1993; Ghosh and Ghosh, 2006, 2017). Coccinellid, syrphid and lacewing predators were identified by using keys provided by Poorani (2023a, b, 2024), Ghorpade (1994) and Ghosh (2000), respectively.

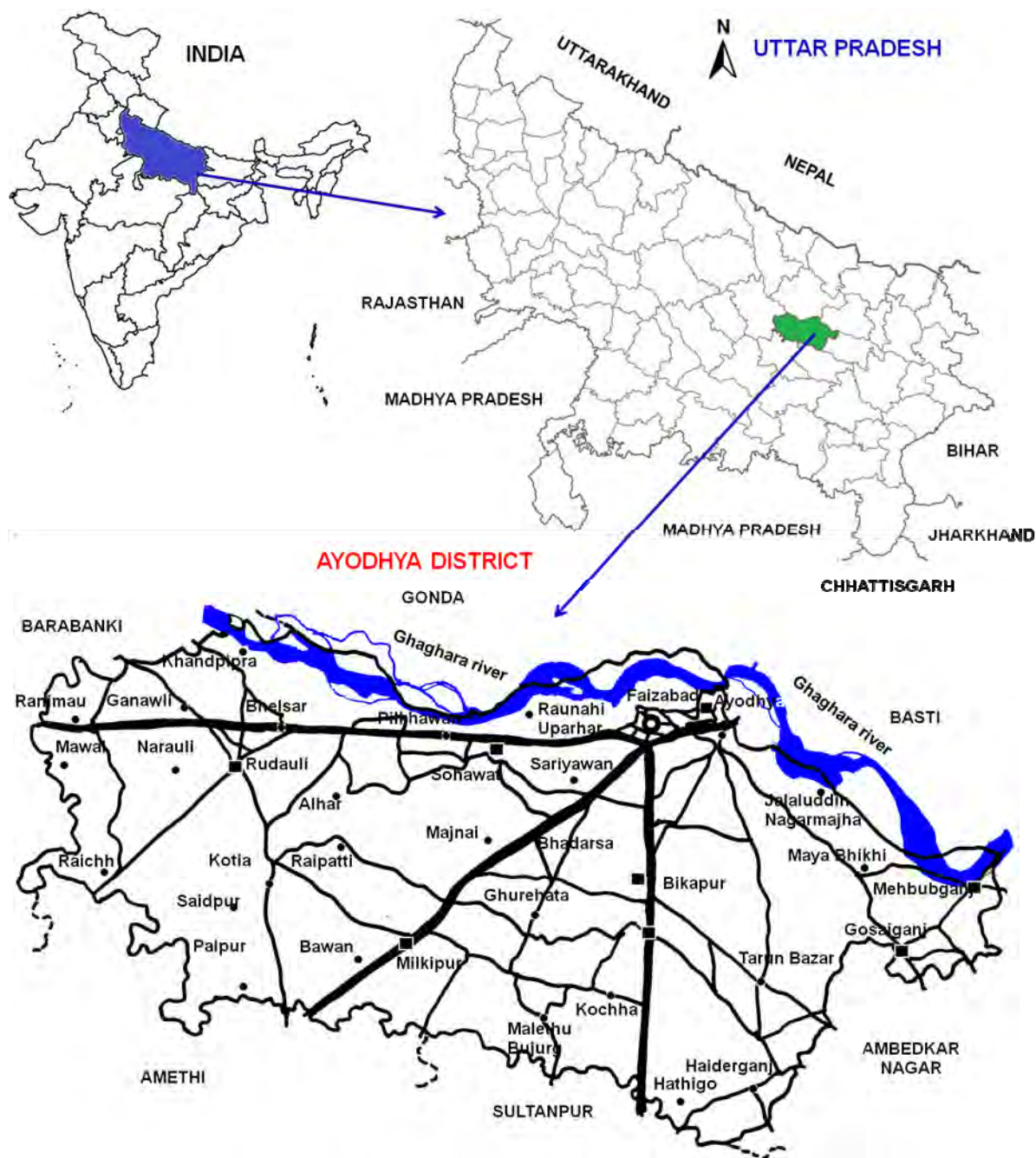


Fig. 1 Map showing the site of study area in Ayodhya district, Uttar Pradesh.

3 Results and Discussion

The analysis of data displayed in Table 1 revealed that a total of 44 species of predators belonging to 24 genera under 4 families prey upon 23 species of aphids belonging to 14 genera infesting 72 plant species belonging to 20 families in 181 villages/town areas of Ayodhya district. A total of 262 (41%) tritrophic associations (predators - preys - host plants) are new record from India out of total 637 such associations. These relationships are marked by asterisk (*) in Table 1.

Over 70% of all predators belong to the family Coccinellidae (Coleoptera) (31 species) followed by Syrphidae (Diptera) (10 species), Hemerobiidae (Neuroptera) (2 species) and Chrysopidae (Neuroptera) (single

species) (Table 2). Earlier, Choudhary and Singh (2012) recorded 29 species of predators preying on 31 species of aphids in 7 districts of northeast Uttar Pradesh, viz., Kushinagar, Deoria, Gorakhpur, Meharajganj, Sant Kabirnagar, Basti and Siddharthanagar while Mall (2013) recorded 29 species of predators (Chrysopidae: 1 species; Coccinellidae: 23 species; Syrphidae: 5 species) feeding on 26 species of aphids in 11 districts (Ambedkar Nagar, Azamgarh, Ballia, Chandauli, Gazipur, Jaunpur, Maunath Bhanjan, Mirzapur, Sant Ravidas Nagar, Sonbhadra, and Varanasi) of southeast Uttar Pradesh. Omkar and Pervez (2000, 2004) enlisted predaceous coccinellids in India without mentioning their host plants and distribution. Recently, Ahmad and Kumar (2024) enlisted prey records of Syrphidae in India without their distribution.

Among the coccinellids, *Coccinella transversalis* Fabricius and *Coccinella septempunctata* L. are highly polyphagous and diversified consuming 18 and 16 species of aphids infesting 48 and 46 plant species in 122 and 114 villages of Ayodhya, respectively (Table 2) followed by *Cheilomenes sexmaculata* (Fabricius) (prey on 15 species of aphids on 22 host plant species) and *Hippodamia variegata* (Goeze) (prey on 14 species of aphids on 31 plant species in 95 villages). Among the Syrphidae, *Episyrphus balteatus* (De Geer) dominates over other species consuming 12 species of aphids infesting 24 species of plants in 44 villages followed by *Ischiodon scutellaris* (Fabricius) that feed on 10 species of aphids infesting 21 species of plants in 43 villages, *Paragus serratus* (Fabricius) and others. Only a single species of Chrysopidae, *Chrysoperla carnea* (Stephens) was found predatory on 5 species of aphids infesting 10 species of plants in 31 villages. *Micromus timidus* Hagen and *Micromus igorotus* Banks were recorded among Hemerobiidae that feed on 7 species of aphids infesting 5-6 species of plants.

In the target area, out of 23 species of aphids recorded as prey of aphidophagous insects, *Aphis craccivora* Koch attracted maximum number of predators species (35 species) on 9 plant species, mostly agricultural crops, followed by *Aphis gossypii* Glover which was preyed by 34 species of predators on 36 plant species, *Myzus persicae* (Sulzer) preyed by 33 species of predators on 21 plant species, *Lipaphis erysimi* (Kalt.) preyed by 33 species of predators on 8 plant species, particularly brassica crops, *Brevicoryne brassicae* (Linn.) preyed by 31 species of predators on 7 food plants mainly brassica vegetables, *Rhopalosiphum maidis* (Fitch) preyed by 25 species of predators on 10 species of plants mostly cereal crops (wheat, maize, sorghum) and others (Table 3). The data demonstrated that in the target area, predator fauna is very rich and most of the aphids as crop pests attract several predators that keep their population below the threshold naturally avoiding any control measure. Their conservation in field population is urgently needed by avoiding excess of nitrogen fertiliser that attract aphids and judiciously using selective pesticides that are not harmful for predators.

Table 4 reveals that the vegetable crop brinjal (*Solanum melongena* L.) is infested by 5 species of aphids but also attract as many as 30 species of predators in the target area that naturally control their population, followed by broad bean (*Vicia faba* L.) that is infested by 5 species of aphids but attract 16 species of predators to consume them. Most of the cultivated crops attract more than 10 species of predators that consume the infested aphid species. The oilseed crop, the rapeseed mustard (*Brassica rapa* L.) is infested by only 3 species of aphids, *Brevicoryne brassicae* L., *Lipaphis erysimi* (Kalt.) and *Myzus persicae* (Sulzer) and all these are consumed by 33 species of predators.

Table 1 List of aphidophagous predators preying on different aphid species associated with different food plants in different villages of Ayodhya district. *denotes new record of this tritrophic association from India.

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
A. Chrysopidae			
1. <i>Chrysoperla zastrowi sillemi</i> (Esben-Petersen, 1935) [syn. <i>Chrysopa gujaratensis</i> Ghosh, 1976; <i>Chrysopa punensis</i> Ghosh, 1976; <i>Chrysopa sanandensis</i> Ghosh, 1977; <i>Chrysopa sillemi</i> Esben-Petersen, 1935; <i>Chrysoperla carnea</i> – group (recorded in India); <i>Chrysoperla gujaratensis</i> (Ghosh, 1976); <i>Chrysoperla punensis</i> (Ghosh, 1976); <i>Chrysoperla sanandensis</i> (Ghosh, 1977); <i>Chrysoperla sillemi</i> (Esben-Petersen, 1935); <i>Chrysoperla zastrowi arabica</i> Henry et al., 2006]			
<i>Aphis (Aphis) craccivora</i> Koch, 1854			
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Narauli
	<i>Lablab purpureus</i> (L.) Sweet	Asteraceae	Atwari, Bhelsar, Dhaurahara, Dihpure Masodha, Majnawa, Pilkhawan, Rampur
<i>Aphis (Aphis) gossypii</i> Glover, 1877			
	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Jasmand, Sewara, Sohawal
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Ayodhya, Chirauli, Majnawa, Saretha
	<i>Vicia faba</i> L.	Fabaceae	Jasmand
<i>Aphis (Aphis) spiraeicola</i> Patch, 1914			
	<i>Cosmos bipinnatus</i> Cav.	Asteraceae	Jarayal Kalan
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica nigra</i> (L.) W.D.J.Koch	Brassicaceae	Kadanpur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Dewapur
	<i>Brassica rapa</i> L.	Brassicaceae	Bhaisauli, Milkipur
<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)			
	<i>Brassica rapa</i> L.	Brassicaceae	Rudaulia, Sahni
	<i>Capsicum frutescens</i> L.	Solanaceae	Jakhauli, Jarayal Kalan, Kail, Phelsanda, Sarai Sura, Saranga Pur
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mau Mehbubganj
B. Coccinellidae			
1. <i>Adalia bipunctata</i> (Linnaeus, 1758)			
<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*			
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Jarayal Kalan
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Amiala Pur, Dalsarai, Manapur, Mawai
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica napus</i> L.	Brassicaceae	Jarayal Kalan
	<i>Brassica oleracea</i> L. var. <i>capitata</i> L.	Brassicaceae	Aadil Pur
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya, Milkipur
<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*			

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Raphanus sativus</i> L.*	Brassicaceae	Alipur Khajuri, Chetaipur, Gokula Kapasi
2. <i>Anegleis cardoni</i> (Weise, 1892) [syn. <i>Micraspis cardoni</i> (Weise, 1892)]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Dhaurahara
	<i>Vigna mungo</i> (L.) Hepper*	Fabaceae	Daulat Pur
	<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>unguiculata</i> *	Fabaceae	Banvir Pur, Dabha Semar, Raja Nagar,
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Abelmoschus esculentus</i> (L.) Moench*	Malvaceae	Ayodhya, Dabha Semar, Khiharan
	<i>Cajanus cajan</i> (L.) Millsp.*	Fabaceae	Jainabad, Mahawan, Pilkhawan Ranikpur, Ranopali
	<i>Campsis radicans</i> (L.) Bureau*	Bignoniaceae	Bikapur
	<i>Capsicum annuum</i> L.	Solanaceae	Achhora, Dalsarai
	<i>Solanum melongena</i> L.	Solanaceae	Deoie
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica napus</i> L.*	Brassicaceae	Halderganj
	<i>Brassica oleracea</i> L.var. <i>botrytis</i> L.	Brassicaceae	Ajrauli
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Ayodhya
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Triticum aestivum</i> L.*	Poaceae	Asthana
	<i>Rhopalosiphum padi</i> (Linnaeus, 1758)		
	<i>Triticum aestivum</i> L.	Poaceae	Gogaona, Kail
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad
3. <i>Brumoides suturalis</i> (Fabricius, 1798) [syn. <i>Brumus suturalis</i> (Fabricius, 1798)]			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.	Fabaceae	Ayodhya, Milkipur, Pilkhawan
	<i>Vicia faba</i> L.*	Fabaceae	Rudaulia
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Bhelsar, Dihpure Birbal
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Hazipur Barsedi Uparhar
	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Daulat Pur
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Dabha Semar
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Gosainganj
	<i>Capsicum annuum</i> L.	Solanaceae	Gosainganj, Gothwara, Jakhauli, Kot Sarai, Madhopur
	<i>Capsicum frutescens</i> L.	Solanaceae	Acchora, Anjana, Ankari Pur, Malik

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
			Pur, Naipura
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Ayodhya, Chirauli, Majnawa, Saretha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica rapa</i> L.	Brassicaceae	Halderganj
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Brassicaceae	Ghurehata
	<i>Lipaphis (Lipaphis) erysimi</i> (Kaltenbach, 1843)		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Ayodhya, Halderganj, Milkipur, Rudaulia
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Sorghum bicolor</i> (L.) Moench (syn. <i>Sorghum vulgare</i> Pers.)	Poaceae	Tiwaripur
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)		
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Dalsarai, Jarayal Kalan, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Kot Saray, Mehubganj, Tiwaripur
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Sorghum bicolor</i> (L.) Moench (syn. <i>Sorghum vulgare</i> Pers.)	Poaceae	Saidpur
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Mau Yaduvansh Pur, Milkipur, Sewara
4. <i>Cheilomenes sexmaculata</i> (Fabricius, 1781) [syn. <i>Menochilus sexmaculatus</i> (Fabricius, 1781)]			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.	Fabaceae	Ghurehata, Raipatti
	<i>Vicia faba</i> L.*	Fabaceae	Rudaulia
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Dhaurahara, Hariharpur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum annum</i> L.	Solanaceae	Usroo
	<i>Capsicum frutescens</i> L.	Solanaceae	Acchora, Anjana, Ankari Pur, Ghurehata,
	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Sanethu
	<i>Luffa acutangula</i> (L.) Roxb.*	Cucurbitaceae	Raipatti
	<i>Solanum melongena</i> L.	Solanaceae	Majnawa
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841		
	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Apocynaceae	Baboo Pur, Khanpur, Sulem Pur
	<i>Aphis (Aphis) solanella</i> Theobald, 1854		

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Capsicum frutescens</i> L.	Solanaceae	Deora Kot
	<i>Aphis (Aphis) spiraecola</i> Patch, 1914*		
	<i>Cestrum nocturnum</i> L.*	Solanaceae	Ayodhya, Deli, Madhupur
	<i>Coriandrum sativum</i> L.	Apiaceae	Kola, Pilkhawan, Surwari
	<i>Solanum melongena</i> L.	Solanaceae	Usari
	<i>Vicia faba</i> L.*	Fabaceae	Ranimau
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica napus</i> L.*	Brassicaceae	Halderganj
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Kochha, Madhopur, Surwari
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.*	Brassicaceae	Halderganj
	<i>Raphanus sativus</i> L.*	Brassicaceae	Aadil Pur
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917		
	<i>Psidium guajava</i> L.	Myrtaceae	Sahni
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Apiaceae	Bhitaure
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica napus</i> L.	Brassicaceae	Kapasi
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Dalsarai
	<i>Brassica rapa</i> L.	Brassicaceae	Baboo Pur, Milkipur
	<i>Macrosiphum (Macrosiphum) rosae</i> (Linnaeus, 1758)		
	<i>Rosa indica</i> L.	Rosaceae	Gothwara, Gokula, Halderganj, Kadanpur
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Saidpur, Tiwaripur
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Raphanus sativus</i> L.*	Brassicaceae	Asthana, Dihpure Birbal, Hisamuddin Pur
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Solanum nigrum</i> L.	Solanaceae	Gogaona, Surwari
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Mau Yaduvansh Pur, Sewara
	<i>Sitobion (Sitobion) rosaeiformis</i> (Das, 1918)		
	<i>Rosa indica</i> L.	Rosaceae	Harington Ganj
5. <i>Coccinella repanda</i> Thunberg, 1781			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Vicia faba</i> L.	Fabaceae	Kot Saray, Paratajpur, Rudaulia
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Gossypium hirsutum</i> L.	Malvaceae	Sukkha Pur Etura

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajraulti, Bandanpur, Kochha, Madhopur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kaltenbach, 1843)		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica rapa</i> L.	Brassicaceae	Kapasi
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Tiwaripur
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)		
	<i>Brassica rapa</i> L.	Brassicaceae	Kapasi
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
6. <i>Coccinella septempunctata</i> Linnaeus, 1758			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Ayodhya, Jaganpur, Kanakpur Sagrauli, Kapasi, Raipatti
	<i>Vicia faba</i> L.	Fabaceae	Dalpatpur Uparhar, Kot Saray, Rudaulia
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Narauli
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Bhelsar, Dhaurahara, Jasmand, Karaundi, Majnawa, Pilkhawan, Arthar, Ayodhya, Harington Ganj
	<i>Phaseolus mungo</i> Wall.*	Fabaceae	Arthar, Chirauli
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Gogaona
	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Daulat Pur
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Baragaon
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Ayodhya, Bawan, Ghatuli, Kihharan
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Narauli
	<i>Capsicum annuum</i> L.	Solanaceae	Gothwara, Kot Saray, Madhopur
	<i>Capsicum frutescens</i> L.	Solanaceae	Madna Uparhar, Malethu Buzurg
	<i>Colocasia esculenta</i> (L.) Schott	Araceae	Kurawan, Sidhaura
	<i>Coriandrum sativum</i> L.	Apiaceae	Pilkhawan, Surwari
	<i>Cucurbita maxima</i> Duchesne*	Cucurbitaceae	Sewara
	<i>Gossypium hirsutum</i> L.	Malvaceae	Sukkha Pur Etura
	<i>Lablab purpureus</i> (L.) Sweet*	Fabaceae	Dihpure Birbal
	<i>Luffa acutangula</i> (L.) Roxb.*	Cucurbitaceae	Sherpur
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Psidium guajava</i> L.	Myrtaceae	Jainabad
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Solanum tuberosum</i> L.	Solanaceae	Usari
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841		
	<i>Nerium oleander</i> L.	Apocynaceae	Palpur
	<i>Calotropis gigantea</i> (L.) W.T. Aiton	Apocynaceae	Ghurehata
	<i>Calotropis procera</i> (Aiton) Dryand.	Apocynaceae	Ghurehata
	<i>Aphis (Aphis) spiraeicola</i> Patch, 1914*		
	<i>Coriandrum sativum</i> L.*	Apiaceae	Kola, Pilkhawan
	<i>Sida cordifolia</i> L.*	Cucurbitaceae	Khanpur
	<i>Solanum melongena</i> L.	Solanaceae	Usari
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha
	<i>Brassica napus</i> L.*	Brassicaceae	Halderganj
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.	Brassicaceae	Halderganj
	<i>Raphanus sativus</i> L.*	Brassicaceae	Aadil Pur
	<i>Greenidea (Greenidea) ficicola</i> Takahashi, 1921*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Jainabad
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917		
	<i>Psidium guajava</i> L.	Myrtaceae	Baisingh
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Apiaceae	Dalsarai
	<i>Hyalopterus pruni</i> (Geoffroy, 1762)*		
	<i>Phragmites karka</i> (Retz.) Trin.ex Steud.*	Poaceae	Gosainganj
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica napus</i> L.	Brassicaceae	Kapasi
	<i>Brassica nigra</i> (L.) W.D.J.Koch	Brassicaceae	Kadanpur
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Daulat Pur, Faizabad, Masodha
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Aadil Pur, Baragaon, Pilkhawan
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Halderganj, Kadanpur, Kola, Kotara, Maholi Uparhar, Milkipur, Rudaulia
	<i>Raphanus sativus</i> L.	Brassicaceae	Asrekha, Atwari, Ayodhya, Birauli, Gondwa, Gondwa, Jalaluddin Nagar, Majha, Sheikhpur Jafar
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Beta vulgaris</i> L.*	Chenopodiaceae	Mau Yaduvansh Pur, Tarun Bazar
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Dabha Semar

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Brassica nigra</i> (L.) W.D.J.Koch*	Brassicaceae	Gogaona
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Alipur Khajuri, Kadanpur, Khiharan, Milkipur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Faizabad, Hazipur Barsedi Uparhar
	<i>Brassica rapa</i> L.	Brassicaceae	Amiala Pur, Ayodhya, Jasmand, Kail, Rudaulia
	<i>Capsicum frutescens</i> L.	Solanaceae	Dabha Semar, Kail, Sarai Sura, Saranga Pur
	<i>Chenopodium album</i> L.*	Chenopodiaceae	Ayodhya
	<i>Coriandrum sativum</i> L.*	Apiaceae	Kurmihaya
	<i>Raphanus sativus</i> L.*	Brassicaceae	Alipur Khajuri, Asthana, Chetaipur, Dihpure Birbal, Gokula, Hisamuddin Pur, Kapasi, Khairi, Khirauni
	<i>Rosa indica</i> L.*	Rosaceae	Mahdauna Khas
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mau Yaduvansh Pur, Mehbubganj, Tiwaripur
	<i>Solanum nigrum</i> L.	Solanaceae	Gogaona, Kapasi, Surwari
	<i>Solanum tuberosum</i> L.	Solanaceae	Ayodhya, Baswar Buzurg, Chirauli, Deogaon, Deoie, Kadanpur
	<i>Trigonella foenum-graecum</i> L.*	Fabaceae	Ganawli
	<i>Vicia faba</i> L.*	Fabaceae	Amiala Pur, Amsin, Jamdra, Jamuniya Mau
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Banvir Pur, Baragaon, Deora Kot, Nimdi, Saidpur, Taksara
	<i>Cynodon dactylon</i> (L.) Pers.*	Poaceae	Ranopali
	<i>Cyperus rotundus</i> L.*	Cyperaceae	Ayodhya
	<i>Hordeum vulgare</i> L.	Poaceae	Bawan, Kadanpur, Mohammad Pur
	<i>Saccharum officinarum</i> L.*	Poaceae	Nara
	<i>Sorghum bicolor</i> (L.) Moench*	Poaceae	Saidpur
	<i>Triticum aestivum</i> L.	Poaceae	Asthana, Bhikhapur, Ghatuli, Milkipur
	<i>Zea mays</i> L.	Poaceae	Baisingh, Lalpur Uparhar, Moiya Nimdi, Paliagoa
	<i>Schizaphis (Schizaphis) graminum</i> (Rondani, 1852)*		
	<i>Hordeum vulgare</i> L.*	Poaceae	Bankat
	<i>Oryza sativa</i> L.*	Poaceae	Baidauli
	<i>Triticum aestivum</i> L.*	Poaceae	Gohaniya

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Khairi
	<i>Hordeum vulgare</i> L.*	Poaceae	Hardoiya, Moiya Kapoor Pur
	<i>Triticum aestivum</i> L.	Poaceae	Deoie, Faizabad, Milkipur, Sewara
7. <i>Coccinella transversalis</i> Fabricus, 1781			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Pisum sativum</i> L.	Fabaceae	Ayodhya, Jaganpur, Kapasi, Pilkhawan
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Narauli
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Bhelsar, Hariharpur, Khanpur, Masodha, Majnawa
	<i>Pisum sativum</i> L.	Fabaceae	Ayodhya, Jaganpur, Kapasi, Pilkhawan
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Gogaona
	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Daulat Pur
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Baragaon, Dabha Semar
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Anjana, Ayodhya, Bawan, Ghatuli, Khiharan
	<i>Ageratum conyzoides</i> L.	Asteraceae	Dhamhar, Haiderganj, Milkipur, Pilkhawan
	<i>Cajanus cajan</i> (L.) Millsp.*	Fabaceae	Gokula, Kadanpur, Mahawan, Ranikpur, Ranimau, Ranopali
	<i>Capsicum annuum</i> L.	Solanaceae	Achhora, Gothwara, Kot Saray, Madhopur, Usroo
	<i>Capsicum frutescens</i> L.	Solanaceae	Acchora, Anjana, Ankari Pur, Ghurehata, Naipura
	<i>Cestrum nocturnum</i> L.*	Solanaceae	Barwa, Bhelsar, Kapasi
	<i>Coriandrum sativum</i> L.*	Apiaceae	Faridpur, Pilkhawan
	<i>Cucurbita maxima</i> Duchesne*	Cucurbitaceae	Jasmand, Sanethu, Sewara, Sohawal
	<i>Gossypium herbaceum</i> L.*	Malvaceae	Kudha Keshavpur Uparhar
	<i>Hibiscus rosa-sinensis</i> L.*	Malvaceae	Dhamhar, Jahagirabad, Kuchera, Kudha Keshavpur Uparhar, Malik Pur
	<i>Lagenaria siceraria</i> (Molino) Standl.	Cucurbitaceae	Aadil Pur
	<i>Luffa aegyptiaca</i> Mill.*	Cucurbitaceae	Khanpur, Parsawan, Rampur
	<i>Momordica charantia</i> L.	Cucurbitaceae	Ayodhya, Faizabad
	<i>Parthenium hysterophorus</i> L.*	Asteraceae	Daulat Pur, Milkipur
	<i>Psidium guajava</i> L.	Myrtaceae	Adilpur, Bankat, Bhikhapur, Jasmand
	<i>Rosa indica</i> L.*	Rosaceae	Bari
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Ayodhya, Chirauli, Deogaon, Majnawa, Saretha

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Solanum tuberosum</i> L.	Solanaceae	Kushmaha, Ranimau
	<i>Vicia faba</i> L.*	Fabaceae	Jasmand
	<i>Aphis (Aphis) nasturtii</i> Kaltenbach, 1843*		
	<i>Capsicum annuum</i> L.*	Solanaceae	Faizabad
	<i>Hibiscus rosa-sinensis</i> L.*	Malvaceae	Kot Saray
	<i>Mentha arvensis</i> L.*	Lamiaceae	Bankat
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841*		
	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Apocynaceae	Haiderganj, Khanpur, Khanpur, Kot Saray
	<i>Nerium oleander</i> L.*	Apocyanaceae	Chetaipur, Chirauli, Pilkhawan, Rautawa
	<i>Aphis (Aphis) solanella</i> Theobald, 1854*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Deora Kot, Sohawal
	<i>Solanum melongena</i> L.*	Solanaceae	Katrauli
	<i>Aphis (Aphis) spiraeicola</i> Patch, 1914*		
	<i>Bougainvillea spectabilis</i> Willd.*	Nyctaginaceae	Bhikhapur
	<i>Cestrum nocturnum</i> L.*	Solanaceae	Ayodhya, Deli Saraiya, Katrauli, Madhupur
	<i>Coriandrum sativum</i> L.*	Apiaceae	Kola, Pilkhawan, Surwari
	<i>Cosmos bipinnatus</i> Cav.	Asteraceae	Janaura, Kapasi, Kola
	<i>Lantana camara</i> L.*	Verbenaceae	Sherpur
	<i>Sida cordifolia</i> L.*	Cucarbitaceae	Khanpur
	<i>Solanum melongena</i> L.*	Solanaceae	Usari
	<i>Aphis (Toxoptera) aurantii</i> Boyer de Fonsc., 1841*		
	<i>Citrus aurantium</i> L.	Rutaceae	Kurmihaya
	<i>Citrus^saurantiifolia</i> (Christm.) Swingle*	Rutaceae	Dhaurahara, Narauli
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica napus</i> L.*	Brassicaceae	Halderganj
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha, Surwari
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.	Brassicaceae	Halderganj
	<i>Greenidea (Greenidea) ficicola</i> Takahashi, 1921*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Kareru
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Amsin, Anjana, Ayodhya, Gondwa, Jarhi, Sarethi, Usari
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica napus</i> L.	Brassicaceae	Kapasi
	<i>Brassica nigra</i> (L.) W.D.J.Koch	Brassicaceae	Kadanpur

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Alipur Khajuri, Ayodhya, Faizabad, Khanpur, Masodha
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Aadil Pur, Dewapur, Kasba, Kasba, Baragaon, Pilkhawan
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Amiala Pur, Amsin, Ayodhya, Halderganj, Kadanpur, Madhopur, Milkipur, Rajepur Uparhar, Rudaulia
	<i>Raphanus sativus</i> L.	Brassicaceae	Ayodhya, Birauli, Birauli, Ganawli, Gondwa, Gondwa, Jahagirabad, Majha
	<i>Macrosiphoniella (Macrosiphoniella) sanborni</i> (Gillette, 1908)*		
	<i>Chrysanthemum indicum</i> L.*	Asteraceae	Acchora, Adilpur, Ayodhya, Kadanpur, Kasba, Milkipur
	<i>Macrosiphum (Macrosiphum) rosae</i> (Linnaeus, 1758)		
	<i>Rosa indica</i> L.	Rosaceae	Deoriya, Gohaniya, Gokula, Kadanpur, Paliachalpur
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Deli Saraiya, Hariharpur, Khandasa, Narauli, Rautawa, Sukhawa
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Tiwaripur
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Abelmoschus esculentus</i> (L.)* Moench	Malvaceae	Ayodhya, Dabha Semar, Khirauni
	<i>Beta vulgaris</i> L.*	Chenopodiaceae	Mau Yaduvansh Pur, Tarun Bazar
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Dabha Semar
	<i>Brassica nigra</i> (L.) W.D.J.Koch*	Brassicaceae	Gogaona
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Alipur Khajuri, Hazipur Barsedi Uparhar, Milkipur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Faizabad, Hazipur Barsedi Uparhar
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya, Deli Saraiya, Deokali, Dewapur, Kail, Rudaulia
	<i>Capsicum frutescens</i> L.	Solanaceae	Dabha Semar, Sarai Sura, Saranga Pur
	<i>Coriandrum sativum</i> L.*	Apiaceae	Ankari Pur, Kurmihaya
	<i>Raphanus sativus</i> L.	Brassicaceae	Alipur Khajuri, Asthana, Chetaipur, Hisamuddin Pur, Khairi, Khirauni
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mehbubganj, Tiwaripur
	<i>Solanum tuberosum</i> L.	Solanaceae	Ayodhya, Baswar Buzurg, Chirauli, Deogaon, Deoie, Kola, Kot Saray, Saranga Pur

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Trigonella foenum-graecum</i> L.*	Fabaceae	Ganawli
	<i>Vicia faba</i> L.*	Fabaceae	Amiala Pur, Jamuniya Mau
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Banvir Pur, Baragaon, Deora Kot, Kadanpur, Saidpur, Taksara
	<i>Hordeum vulgare</i> L.*	Poaceae	Bawan, Mohammad Pur
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Saidpur
	<i>Triticum aestivum</i> L.	Poaceae	Asthana, Bhikhapur, Ghatuli, Milkipur
	<i>Zea mays</i> L.	Poaceae	Baisingh, Lalpur Uparhar, Moiya Kapoor Pur, Nimdi, Paliagoa
	<i>Schizaphis (Schizaphis) graminum</i> (Rondani, 1852)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
	<i>Hordeum vulgare</i> L.*	Poaceae	Bankat
	<i>Triticum aestivum</i> L.*	Poaceae	Gohaniya
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
	<i>Hordeum vulgare</i> L.*	Poaceae	Hardoiya, Moiya Kapoor Pur
	<i>Triticum aestivum</i> L.	Poaceae	Deoie, Faizabad, Mau Yaduvansh Pur, Mau Yaduvansh Pur, Milkipur, Sewara
8. <i>Coccinella undecimpunctata</i> Linnaeus, 1758			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Lablab purpureus</i> (L.) Sweet*	Fabaceae	Karaundi, Hariharpur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Malik Pur, Mirmau
	<i>Cucurbita maxima</i> Duchesne*	Cucurbitaceae	Sohawal
	<i>Dahlia pinnata</i> Cav.*	Asteraceae	Mohammad Pur
	<i>Luffa aegyptiaca</i> Mill.*	Cucurbitaceae	Baboo Pur
	<i>Solanum melongena</i> L.*	Solanaceae	Ayodhya
	<i>Solanum tuberosum</i> L.	Solanaceae	Kushmaha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Baboo Pur
	<i>Greenidea (Greenidea) ficicola</i> Takahashi, 1921*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Kareru
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Bhikhapur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Jarayal Kalan
	<i>Brassica oleracea</i> L. var. <i>capitata</i> *	Brassicaceae	Kasba
	<i>Brassica rapa</i> L.	Brassicaceae	Kadanpur, Rajepur Uparhar
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Solanum melongena</i> L.*	Solanaceae	Mehbubganj
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Triticum aestivum</i> L.*	Poaceae	Bhikhapur
	<i>Sitobion</i> (<i>Sitobion</i>) <i>miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Mau Yaduvansh Pur
	<i>Macrosiphoniella</i> (<i>Macrosiphoniella</i>) <i>sanborni</i> (Gillette, 1908)		
	<i>Chrysanthemum indicum</i> L.	Asteraceae	Kadanpur, Karma Kondari, Kasba, Kurhasadat, Milkipur, Sherpur, Surwari
9. <i>Coelophora bissellata</i> Mulsant, 1850 [syn. <i>Lemnia bissellata</i> (Mulsant, 1850)]			
	<i>Aphis</i> (<i>Aphis</i>) <i>craccivora</i> Koch, 1854		
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Gogaona
	<i>Aphis</i> (<i>Aphis</i>) <i>gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Malik Pur, Mirmau
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya
	<i>Myzus</i> (<i>Nectarosiphon</i>) <i>persicae</i> (Sulzer, 1776)		
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Saidpur
	<i>Zea mays</i> L.	Poaceae	Baisingh, Lalpur Uparhar, Moiya Kapoor Pur, Nimdi, Paliagoa
10. <i>Coelophora saucia</i> (Mulsant, 1850) [syn. <i>Lemnia saucia</i> Mulsant, 1850]			
	<i>Aphis</i> (<i>Aphis</i>) <i>craccivora</i> Koch, 1854*		
	<i>Solanum melongena</i> L.*	Solanaceae	Mehbubganj
	<i>Lipaphis</i> (<i>Lipaphis</i>) <i>erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Jarayal Kalan
	<i>Brassica oleracea</i> L. var. <i>capitata</i> *	Brassicaceae	Kasba
	<i>Myzus</i> (<i>Nectarosiphon</i>) <i>persicae</i> (Sulzer, 1776)*		
	<i>Solanum melongena</i> L.*	Solanaceae	Mehbubganj
11. <i>Harmonia dimidiata</i> (Fabricius, 1781)			
	<i>Acyrtosiphon</i> (<i>Acyrtosiphon</i>) <i>pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.	Fabaceae	Jaganpur
	<i>Vicia faba</i> L.*	Fabaceae	Kot Saray
	<i>Aphis</i> (<i>Aphis</i>) <i>craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Mohammad Pur, Khanpur, Masodha
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Aphis</i> (<i>Aphis</i>) <i>gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Ramnagar Dhaurahra
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Aphis</i> (<i>Aphis</i>) <i>nasturtii</i> Kaltenbach, 1843*		

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Capsicum annuum</i> L.*	Solanaceae	Faizabad
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandan Pur
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Dalsarai
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Sahni
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Jakhauli, Milkipur
	<i>Brassica rapa</i> L.	Brassicaceae	Deli Saraiya, Jarayal Kalan, Kail
	<i>Coriandrum sativum</i> L.*	Apiaceae	Ankari Pur, Rauzagaon
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Jainabad, Moiya Kapoor Pur, Paliagoa
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad
12. <i>Harmonia eucharis</i> (Mulsant, 1853) [syn. <i>Ballia eucharis</i> Mulsant, 1853]			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Jaganpur
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Lablab purpureus</i> (L.) Sweet*	Fabaceae	Mohammad Pur, Khanpur, Masodha
	<i>Solanum melongena</i> L.*	Solanaceae	Mehbubganj
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Ramnagar Dhaurahra
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandan Pur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Kasba
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Dalsarai
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Jarayal Kalan
	<i>Brassica rapa</i> L.	Brassicaceae	Kadanpur, Rajepur Uparhar
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica juncea</i> (L.) Czern.*	Brassicaceae	Sahni
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Jakhauli, Milkipur
	<i>Brassica rapa</i> L.*	Brassicaceae	Deli Saraiya, Jarayal Kalan, Kail
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Jainabad, Moiya Kapoor Pur, Paliagoa
13. <i>Harmonia octomaculata</i> (Fabricius, 1787) [syn. <i>Coccinella arcuata</i> Fabricius, 1787]			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Jaganpur

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Mohammad Pur, Khanpur, Masodha
	<i>Vicia faba</i> L.	Fabaceae	Kot Saray
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Ramnagar Dhaurahra
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandan Pur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Kasba
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Bandanpur, Kochha, Madhopur, Surwari
	<i>Brassica rapa</i> L.*	Brassicaceae	Kadanpur, Rajepur Uparhar
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Hariharpur, Khandasa, Rautawa, Sukhawa
	<i>Zea mays</i> L.	Poaceae	Jainabad, Paliagoa
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica juncea</i> (L.) Czern.*	Brassicaceae	Dabha Semar, Sahni
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Jakhauli, Milkipur
	<i>Brassica rapa</i> L.*	Brassicaceae	Deli Saraiya, Jarayal Kalan, Kail
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Jainabad, Moiya Kapoor Pur, Paliagoa
	14. <i>Hippodamia variegata</i> (Goeze, 1777) [syn. <i>Adonia variegata</i> (Goeze, 1777)]		
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Ayodhya, Jaganpur, Kanakpur Sagrauli, Kapasi, Raipatti
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Cajanus cajan</i> (L.) Millsp.*	Fabaceae	Narauli
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Bhelsar, Dhaurahara, Jasmand, Karaundi, Majnawa, Pilkhawan, Arthar, Ayodhya, Harington Ganj
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Gogaona
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Baragaon
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Madna Uparhar, Malethu Buzurg
	<i>Colocasia esculenta</i> (L.) Schott*	Araceae	Kurawan, Sidhaura
	<i>Coriandrum sativum</i> L.*	Apiaceae	Pilkhawan, Surwari
	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Sewara
	<i>Lablab purpureus</i> (L.) Sweet*	Fabaceae	Dihpure Birbal

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Luffa acutangula</i> (L.) Roxb.*	Cucurbitaceae	Sherpur
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841*		
	<i>Calotropis procera</i> (Aiton)* W.T.Aiton	Apocynaceae	Ghurehata
	<i>Nerium oleander</i> L.*	Apocynaceae	Palpur
	<i>Aphis (Aphis) spiraeicola</i> Patch, 1914*		
	<i>Coriandrum sativum</i> L.*	Apiaceae	Kola, Pilkhawan
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L.var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.	Brassicaceae	Halderganj
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Baisingh
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Apiaceae	Dalsarai
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica napus</i> L.	Brassicaceae	Kapasi
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ajrauli, Daulat Pur, Faizabad, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Halderganj, Kadanpur, Kola, Kotara, Maholi Uparhar, Milkipur, Rudaulia
	<i>Raphanus sativus</i> L.*	Brassicaceae	Asrekha, Atwari, Ayodhya, Birauli, Gondwa, Gondwa, Jalaluddin Nagar, Majha, Sheikhpur Jafar
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Zea mays</i> L.*	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Dabha Semar
	<i>Brassica nigra</i> (L.) W.D.J.Koch*	Brassicaceae	Gogaona
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Alipur Khajuri, Kadanpur, Khiharan, Milkipur
	<i>Brassica rapa</i> L.*	Brassicaceae	Amiala Pur, Ayodhya, Jasmand, Kail, Rudaulia
	<i>Capsicum frutescens</i> L.*	Solanaceae	Dabha Semar, Kail, Sarai Sura, Saranga Pur
	<i>Raphanus sativus</i> L.*	Brassicaceae	Alipur Khajuri, Asthana, Gokula, Hisamuddin Pur, Khirauni
	<i>Rosa indica</i> L.*	Rosaceae	Mahdauna Khas
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Manapur, Mawai

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mau Yaduvansh Pur, Mehbuganj, Tiwaripur
	<i>Solanum nigrum</i> L.	Solanaceae	Gogaona, Kapasi, Surwari
	<i>Trigonella foenum-graecum</i> L.*	Fabaceae	Ganawli
	<i>Vicia faba</i> L.*	Fabaceae	Amiala Pur, Amsin, Jamdra, Jamuniya Mau
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Banvir Pur, Baragaon, Deora Kot, Nimdi, Saidpur, Taksara
	<i>Hordeum vulgare</i> L.*	Poaceae	Bawan, Kadanpur, Mohammad Pur
	<i>Sorghum bicolor</i> (L.) Moench*	Poaceae	Saidpur
	<i>Triticum aestivum</i> L.	Poaceae	Asthana, Bhikapur, Ghatuli, Milkipur
	<i>Zea mays</i> L.*	Poaceae	Baisingh, Lalpur Uparhar, Moiya Nimdi, Paliagoa
	<i>Schizaphis (Schizaphis) graminum</i> (Rondani, 1852)*		
	<i>Hordeum vulgare</i> L.*	Poaceae	Bankat
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Khairi
	<i>Hordeum vulgare</i> L.*	Poaceae	Hardoiya, Moiya Kapoor Pur
	<i>Triticum aestivum</i> L.	Poaceae	Deoie, Faizabad, Milkipur, Sewara
15. <i>Illeis cincta</i> (Fabricius, 1798)			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Vigna unguiculata</i> (L.) Walp.*	Fabaceae	Banvir Pur, Baragaon
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Solanum melongena</i> L.*	Solanaceae	Arthar, Saretha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajraulti, Bandanpur, Kochha
	<i>Brassica rapa</i> L.	Brassicaceae	Halderganj
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajraulti, Daulat Pur, Faizabad, Masodha
	<i>Brassica rapa</i> L.*	Brassicaceae	Adilpur, Halderganj, Kadanpur, Kola, Kotara, Maholi Uparhar, Milkipur, Rudaulia
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)		
	<i>Capsicum frutescens</i> L.	Solanaceae	Dabha Semar, Kail, Sarai Sura, Saranga Pur
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mau

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
			Yaduvansh Pur, Mehbubganj, Tiwariapur
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Banvir Pur, Baragaon, Deora Kot, Nimdi, Saidpur, Taksara
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
16. <i>Megalocaria dilatata</i> (Fabricius, 1775) [syn. <i>Anisolemnia dilatata</i> (Fabricius, 1775)]			
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Halderganj, Kotara, Maholi Uparhar, Milkipur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ajraulti, Daulat Pur, Faizabad, Masodha
	<i>Brassica rapa</i> L.*	Brassicaceae	Kadanpur, Kola, Kotara, Maholi Uparhar, Milkipur, Rudaulia
17. <i>Micraspis allardi</i> (Mulsant, 1866)			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Rampur, Sulem Pur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Chrysanthemum indicum</i> L.*	Asteraceae	Kochha, Kotia
	<i>Mangifera indica</i> L.*	Anacardiaceae	Toniya
	<i>Psidium guajava</i> L.*	Myrtaceae	Adilpur
	<i>Solanum tuberosum</i> L.	Solanaceae	Ranimau
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Halderganj, Milkipur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Faizabad, Masodha
	<i>Brassica rapa</i> L.*	Brassicaceae	Kadanpur, Milkipur, Rudaulia
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Solanum melongena</i> L.*	Solanaceae	Khirauni, Mehbubganj
18. <i>Micraspis discolor</i> (Fabricius, 1798) [syn. <i>Verania discolor</i> (Fabricius, 1798)]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Majnawa, Arthar, Ayodhya
	<i>Vicia faba</i> L.	Fabaceae	Bahorikpur, Gogaona
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Capsicum frutescens</i> L.	Solanaceae	Sarai Sura, Saranga Pur
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandanpur, Kochha
	<i>Brassica rapa</i> L.*	Brassicaceae	Amiala Pur, Ayodhya

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Faizabad, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Kola, Kotara
<i>Melanaphis sacchari</i> (Zehntner, 1897)			
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)			
	<i>Capsicum frutescens</i> L.	Solanaceae	Kail, Sarai Sura, Saranga Pur
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Mau Yaduvansh Pur, Mehbubganj, Tiwaripur
<i>Rhopalosiphum maidis</i> (Fitch, 1856)*			
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Banvir Pur, Baragaon, Deora Kot, Nimdi, Saidpur, Taksara
	<i>Zea mays</i> L.	Poaceae	Bari, Baswar Buzurg
<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*			
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
19. <i>Micraspis vincta</i> (Gorham, 1895) [syn. <i>Verania vincta</i> Gorham, 1895]			
<i>Aphis (Aphis) craccivora</i> Koch, 1854			
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Baragaon
<i>Aphis (Aphis) gossypii</i> Glover, 1877			
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha
<i>Brevicoryne brassicae</i> (Linnaeus, 1758)			
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha
<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*			
	<i>Psidium guajava</i> L.*	Myrtaceae	Gondwa
<i>Hyadaphis coriandri</i> (Das, 1918)			
	<i>Coriandrum sativum</i> L.	Apiaceae	Ghurehata
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*			
	<i>Brassica rapa</i> L.*	Brassicaceae	Adilpur, Halderganj, Kadanpur, Kola, Kotara, Maholi Uparhar, Milkipur, Rudaulia
<i>Melanaphis sacchari</i> (Zehntner, 1897)			
	<i>Zea mays</i> L.	Poaceae	Bari, Barwa, Baswar Buzurg
<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*			
	<i>Capsicum frutescens</i> L.*	Solanaceae	Dabha Semar, Kail, Sarai Sura
<i>Rhopalosiphum maidis</i> (Fitch, 1856)*			
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Banvir Pur, Baragaon, Deora Kot, Nimdi, Saidpur, Taksara
<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*			
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
20. <i>Oenopia kirbyi</i> Mulsant, 1850			

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Kanakpur Sagrauli, Kapasi
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Solanum melongena</i> L.	Solanaceae	Arthar, Saretha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Raphanus sativus</i> L.*	Brassicaceae	Majha, Sheikhpur Jafar
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Zea mays</i> L.*	Poaceae	Bari, Barwa, Baswar Buzurg
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mau Yaduvansh Pur, Mehbubganj, Tiwaripur
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Hordeum vulgare</i> L.	Poaceae	Bawan, Kadanpur, Mohammad Pur
	<i>Zea mays</i> L.	Poaceae	Baisingh, Lalpur Uparhar, Moiya Nimdi, Paliagoa
21. <i>Oenopia sexareata</i> (Mulsant, 1853) [syn. <i>Coelophora sexarcata</i> Mulsant, 1853]			
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Solanum melongena</i> L.*	Solanaceae	Mau Mehbubganj
22. <i>Propylea dissecta</i> (Mulsant, 1850)			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.*	Fabaceae	Kanakpur Sagrauli, Kapasi
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Adilpur
	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Asthana, Jarayal Kalan
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Chrysanthemum indicum</i> L.*	Asteraceae	Paliya Shahzadi
	<i>Lagenaria siceraria</i> (Molino) Standl.	Cucurbitaceae	Gokula
	<i>Solanum melongena</i> L.	Solanaceae	Deogaon
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Surwari
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917*		
	<i>Psidium guajava</i> L.*	Myrtaceae	Jarhi
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya, Daulat Pur

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Brassica rapa</i> L.	Brassicaceae	Kotara, Rudaulia
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Chrysanthemum indicum</i> L.*	Asteraceae	Gogaona
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya, Chirauli, Majnawa, Saretha
	<i>Solanum nigrum</i> L.	Solanaceae	Kapasi, Surwari
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Lalpur Uparhar, Rauzagaon
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad
23. Propylea japonica (Thunberg, 1781)			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)		
	<i>Pisum sativum</i> L.	Fabaceae	Kanakpur Sagrauli, Kapasi
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Adilpur
	<i>Vicia faba</i> L.*	Fabaceae	Ranimau
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Anjana, Ghatuli, Teekar
	<i>Capsicum frutescens</i> L.*	Solanaceae	Teekar
	<i>Psidium guajava</i> L.*	Myrtaceae	Bankat
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Mehbubganj, Tiwaripur
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841		
	<i>Calotropis procera</i> (Aiton) W.T.Aiton	Apocynaceae	Haiderganj, Khanpur
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandanpur, Kochha, Madhopur
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Apiaceae	Ankari Pur, Ghurehata, Kurmihaya
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Jasmand
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ayodhya, Daulat Pur
	<i>Brassica rapa</i> L.	Brassicaceae	Kotara, Rudaulia
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Kot Saray, Mau Yaduvansh Pur, Mehbubganj, Tiwaripur
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Triticum aestivum</i> L.	Poaceae	Asthana, Bhikapur, Ghatuli, Milkipur
	<i>Zea mays</i> L.*	Poaceae	Lalpur Uparhar, Rauzagaon
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad, Gohaniya
24. Propylea luteopustulata (Mulsant, 1850) [syn. Oenopia luteopustulata Mulsant, 1850; Pania luteopustulata (Mulsant,			

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
1850)]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Solanum melongena</i> L.	Solanaceae	Mehbubganj, Tiwaripur
	<i>Vicia faba</i> L.	Fabaceae	Ranimau
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Tiwaripur
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajraulti, Bandanpur, Kochha
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica nigra</i> (L.) W.D.J.Koch	Brassicaceae	Kadanpur
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya, Faizabad, Khanpur, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Ayodhya, Halderganj, Kadanpur, Rajepur Uparhar
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)		
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya
	<i>Sitobion (Sitobion) rosaeiformis</i> (Das, 1918)*		
	<i>Rosa indica</i> L.*	Rosaceae	Harington Ganj, Kadanpur
25. Pseudaspidimerus flaviceps (Walker, 1859)			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Adilpur
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Baragaon
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Teekar
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Tiwaripur
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Zea mays</i> L.	Poaceae	Barwa, Baswar Buzurg
26. Scymnus castaneus Sicard, 1929			
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Baboo Pur, Hariharpur, Khandasa, Rautawa, Sukhawa
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)		
	<i>Brassica rapa</i> L.	Brassicaceae	Deokali, Jarayal Kalan, Rauzagaon
27. Scymnus fuscatus Boheman, 1859 [syn. Scymnus brunnescens Motschulsky]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Atwari, Adilpur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Momordica charantia</i> L.*	Cucurbitaceae	Ayodhya
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya, Chirauli, Deoie, Saretha
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917		
	<i>Psidium guajava</i> L.	Myrtaceae	Adilpur, Bankat, Bhikhapur

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Hyadaphis coriandri</i> (Das, 1918)		
	<i>Coriandrum sativum</i> L.	Brassicaceae	Kola, Pilkhawan, Surwari
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ayodhya, Faizabad, Khanpur
	<i>Brassica rapa</i> L.*	Brassicaceae	Ayodhya, Kadanpur
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Rudaulia, Sahni
	<i>Solanum melongena</i> L.*	Solanaceae	Kot Saray, Mau Mehubganj
28. Scymnus hilaris Motschulsky, 1858			
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya, Deoie, Saretha
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Ayodhya
	<i>Greenidea (Trichosiphum) psidii</i> van der Goot, 1917		
	<i>Psidium guajava</i> L.	Myrtaceae	Pilkhawan
	<i>Macrosiphoniella (Macrosiphoniella) sanborni</i> (Gillette, 1908)*		
	<i>Chrysanthemum indicum</i> L.*	Asteraceae	Ayodhya, Kadanpur, Milkipur
29. Scymnus nubilus Mulsant, 1850			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Ayodhya, Dhaurahara
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Hibiscus cannabinus</i> L.*	Malvaceae	Jamdra
	<i>Momordica charantia</i> L.*	Cucurbitaceae	Faizabad
	<i>Psidium guajava</i> L.*	Myrtaceae	Junaidpur
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841*		
	<i>Calotropis procera</i> (Aiton)* W.T.Aiton	Apocynaceae	Karm Danda Khas, Kot Saray
30. Scymnus pyrocheilus Mulsant, 1853 [syn. Pullus pyrocheilus Mulsant (1853)]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Dihpure Birbal, Harington Ganj
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Dabha Semar
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Capsicum frutescens</i> L.	Solanaceae	Malethu Buzurg, Malik Pur
	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Dhamhar
	<i>Lagenaria siceraria</i> (Molino) Standl.	Cucurbitaceae	Gokula
	<i>Momordica charantia</i> L.	Cucurbitaceae	Mohammad Pur
	<i>Psidium guajava</i> L.	Myrtaceae	Adilpur, Bhikhapur, Jasmand
	<i>Solanum tuberosum</i> L.	Solanaceae	Ranimau
	<i>Aphis (Aphis) nasturtii</i> Kaltenbach, 1843*		
	<i>Capsicum frutescens</i> L.	Solanaceae	Faizabad
	<i>Hibiscus rosa-sinensis</i> L.*	Malvaceae	Kot Saray

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Mentha arvensis</i> L.*	Lamiaceae	Bankat
	<i>Aphis (Aphis) solanella</i> Theobald, 1854		
	<i>Capsicum frutescens</i> L.	Solanaceae	Jakhauli, Kail, Saranga Pur
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Solanum melongena</i> L.*	Solanaceae	Mau Mehbubganj
31. Scymnus xerampelinus Mulsant, 1853			
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Bandanpur, Kochha, Surwari
C. Hemerobiidae			
1. Micromus igorotus Banks, 1920			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Baragaon
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Bandanpur, Kochha
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Milkipur, Rudaulia
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Deli Saraiya, Jarayal Kalan, Narauli, Rautawa Teekar
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Tiwaripur
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Milkipur, Rudaulia
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Deora Kot, Nimdi, Saidpur
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Khairi
2. Micromus timidus Hagen, 1853 [syn. Micromus sauteri Esben-Petersen, 1912]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Solanum melongena</i> L.	Solanaceae	Mau Mehbubganj
	<i>Vigna unguiculata</i> (L.) Walp.	Fabaceae	Banvir Pur, Baragaon
	<i>Aphis (Aphis) gossypii</i> Glover, 1877		
	<i>Solanum melongena</i> L.	Solanaceae	Ayodhya, Saretha
	<i>Aphis (Aphis) nerii</i> Boyer de Fonsc., 1841*		
	<i>Calotropis procera</i> (Aiton) Dryand.*	Apocynaceae	Haiderganj, Khanpur
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> L.	Brassicaceae	Ayodhya, Faizabad, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya, Madhopur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica rapa</i> L.*	Brassicaceae	Amiala Pur, Maholi Uparhar

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*			
	<i>Brassica rapa</i> L.	Brassicaceae	Milkipur, Rudaulia
	<i>Solanum melongena</i> L.*	Solanaceae	Janaura, Mehubganj, Tiwaripur
<i>Rhopalosiphum maidis</i> (Fitch, 1856)			
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Deora Kot, Nimdi, Saidpur
D. Syrphidae			
1. <i>Allograpta javana</i> (Wiedemann, 1824) [syn. <i>Sphaerophoria javana</i> Wiedemann, 1824; <i>Syrphus javana</i> Wiedemann, 1824]			
<i>Aphis (Aphis) craccivora</i> Koch, 1854			
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Harington Ganj
<i>Aphis (Aphis) gossypii</i> Glover, 1877			
	<i>Lagenaria siceraria</i> (Molino) Standl.	Cucurbitaceae	Aadil Pur
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica rapa</i> L.	Brassicaceae	Madhopur
<i>Melanaphis sacchari</i> (Zehntner, 1897)			
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Tiwaripur
<i>Rhopalosiphum maidis</i> (Fitch, 1856)*			
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Kadanpur, Sahni
2. <i>Betasyrphus isaaci</i> (Bhatia, 1933) [syn. <i>Syrphus isaaci</i> Bhatia, 1933]			
<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*			
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ayodhya, Faizabad
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica rapa</i> L.	Brassicaceae	Deokali, Rudaulia
3. <i>Betasyrphus serarius</i> (Wiedemann, 1830) [syn. <i>Syrphus serarius</i> Wiedemann, 1830]			
<i>Aphis (Aphis) craccivora</i> Koch, 1854*			
	<i>Lablab purpureus</i> (L.) Sweet*	Fabaceae	Hariharpur, Masodha
<i>Aphis (Aphis) gossypii</i> Glover, 1877*			
	<i>Capsicum frutescens</i> L.*	Solanaceae	Malik Pur, Naipura
<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)			
	<i>Brassica rapa</i> L.	Brassicaceae	Madhopur
4. <i>Episyrphus balteatus</i> (De Geer, 1776) [syn. <i>Syrphus balteatus</i> De Geer, 1776]			
<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)*			
	<i>Pisum sativum</i> L.	Fabaceae	Hisamuddin Pur
	<i>Vicia faba</i> L.*	Fabaceae	Dalpatpur Uparhar
<i>Aphis (Aphis) craccivora</i> Koch, 1854			
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Karaundi, Majnawa
<i>Aphis (Aphis) gossypii</i> Glover, 1877*			
	<i>Coccinia grandis</i> (L.) Voigt.*	Cucurbitaceae	Khandasa
	<i>Colocasia esculenta</i> (L.) Schott.*	Araceae	Kurawan, Sidhaura
	<i>Datura metel</i> L.*	Solanaceae	Karm Danda Khas
	<i>Luffa aegyptiaca</i> Mill.*	Cucurbitaceae	Parsawan

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Solanum melongena</i> L.	Solanaceae	Deogaon
	<i>Solanum tuberosum</i> L.	Solanaceae	Phelsanda
	<i>Aphis (Aphis) solanella</i> Theobald, 1854		
	<i>Capsicum frutescens</i> L.	Solanaceae	Sohawal
	<i>Aphis (Aphis) spiraeicola</i> Patch, 1914*		
	<i>Solanum melongena</i> L.*	Solanaceae	Usari
	<i>Solanum nigrum</i> L.*	Solanaceae	Faridpur
	<i>Sonchus asper</i> (L.) Hill*	Asteraceae	Kurawan
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya, Madhopur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica juncea</i> (L.) Czern.*	Brassicaceae	Jainabad
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Faizabad
	<i>Brassica rapa</i> L.*	Brassicaceae	Madhopur
	<i>Melanaphis sacchari</i> (Zehntner, 1897)*		
	<i>Saccharum officinarum</i> L.*	Poaceae	Rautawa
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Dabha Semar
	<i>Brassica nigra</i> (L.) W.D.J.Koch	Brassicaceae	Gogaona
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Milkipur
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Faizabad,
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya, Rudaulia
	<i>Capsicum frutescens</i> L.*	Solanaceae	Dabha Semar, Saranga Pur
	<i>Raphanus sativus</i> L.*	Brassicaceae	Alipur Khajuri, Khairi, Khirauni
	<i>Solanum lycopersicum</i> L.	Solanaceae	Amiala Pur, Manapur, Mawai
	<i>Solanum melongena</i> L.	Solanaceae	Janaura, Khirauni, Kot Saray, Mehbubganj, Tiwaripur
	<i>Solanum tuberosum</i> L.	Solanaceae	Ayodhya, Deoie, Kola
	<i>Trigonella foenum-graecum</i> L.	Fabaceae	Ganawli
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)		
	<i>Cenchrus americanus</i> (L.) Morr.	Poaceae	Banvir Pur, Deora Kot, Kadanpur, Sahni
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad
	<i>Sitobion (Sitobion) rosaeiformis</i> (Das, 1918)		
	<i>Rosa indica</i> L.	Rosaceae	Jarayal Kalan
5. <i>Eupeodes confrater</i> (Wiedemann, 1830) [syn. <i>Metasyrphus confrater</i> (Wiedemann, 1930)]			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854*		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Majnawa

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Vigna mungo</i> (L.) Hepper*	Fabaceae	Asthana,
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.	Brassicaceae	Madhopur
	<i>Lipaphis</i> (<i>Lipaphis</i>) <i>erysimi</i> (Kalt., 1843)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ajrauli, Faizabad
	<i>Brassica oleracea</i> L. var. <i>capitata</i>	Brassicaceae	Kasba
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Kasba, Madhopur, Rauzagaon
	<i>Myzus</i> (<i>Nectarosiphon</i>) <i>persicae</i> (Sulzer, 1776)		
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya
	<i>Capsicum frutescens</i> L.	Solanaceae	Saranga Pur
6. <i>Ischiodon scutellaris</i> (Fabricius, 1805) [syn. <i>Xanthogramma scutellare</i> (Fabricius, 1805)]			
	<i>Acyrtosiphon</i> (<i>Acyrtosiphon</i>) <i>pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.	Fabaceae	Kanakpur
	<i>Vicia faba</i> L.*	Fabaceae	Kot Saray
	<i>Aphis</i> (<i>Aphis</i>) <i>craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Pilkhawan, Rampur
	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Asthana, Jarayal Kalan
	<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>unguiculata</i>	Fabaceae	Achhora, Baragaon
	<i>Aphis</i> (<i>Aphis</i>) <i>gossypii</i> Glover, 1877*		
	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Anjana, Bawan, Ghatuli, Teekar
	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Gokula, Kadanpur, Mohammad Pur, Rampur Halwara, Uparhar
	<i>Coriandrum sativum</i> L.*	Apiaceae	Faridpur, Mirmau, Pilkhawan,
	<i>Foeniculum vulgare</i> Mill.*	Apiaceae	Gaddoo Pur
	<i>Mangifera indica</i> L.*	Anacardiaceae	Ranopali
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Ayodhya
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya
	<i>Lipaphis</i> (<i>Lipaphis</i>) <i>erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Alipur Khajuri
	<i>Brassica oleracea</i> var. <i>gongylodes</i> *	Brassicaceae	Rauzagaon
	<i>Brassica rapa</i> L.	Brassicaceae	Kola, Rudaulia
	<i>Macrosiphum</i> (<i>Macrosiphum</i>) <i>rosae</i> (Linnaeus, 1758)		
	<i>Rosa indica</i> L.	Rosaceae	Halderganj, Pahar Ganj, Paliachalpur, Ranimau
	<i>Melanaphis sacchari</i> (Zehntner, 1897)		
	<i>Sorghum bicolor</i> (L.) Moench	Poaceae	Tiwaripur
	<i>Myzus</i> (<i>Nectarosiphon</i>) <i>persicae</i> (Sulzer, 1776)*		

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Capsicum frutescens</i> L.*	Solanaceae	Dabha Semar, Saranga Pur
	<i>Raphanus sativus</i> L.*	Brassicaceae	Khairi, Khirauni
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Manapur, Mawai
	<i>Solanum tuberosum</i> L.	Solanaceae	Katrauli, Sahni
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Baragaon, Nimdi, Saidpur
	<i>Triticum aestivum</i> L.	Poaceae	Ghatuli
	<i>Sitobion (Sitobion) miscanthi</i> (Takahashi, 1921)		
	<i>Triticum aestivum</i> L.	Poaceae	Faizabad
7. <i>Paragus serratus</i> (Fabricius, 1805) [syn. <i>Serratoparagus serratus</i> (Fabricius, 1805)]			
	<i>Acyrtosiphon (Acyrtosiphon) pisum</i> (Harris, 1776)*		
	<i>Pisum sativum</i> L.	Fabaceae	Kapasi
	<i>Vicia faba</i> L.*	Fabaceae	Paratajpur
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Adilpur, Rampur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Cucumis sativus</i> L.*	Cucurbitaceae	Lalpur Uparhar, Madhopur
	<i>Cucurbita maxima</i> Duchesne*	Cucurbitaceae	Jakhauli, Jasmand
	<i>Gossypium herbaceum</i> L.*	Malvaceae	Kudha Keshavpur Uparhar
	<i>Medicago sativa</i> L.*	Fabaceae	Ayodhya
	<i>Psidium guajava</i> L.	Myrtaceae	Baboo Pur
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)*		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i> *	Brassicaceae	Faizabad, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Milkipur, Rudaulia
	<i>Raphanus sativus</i> L.*	Brassicaceae	Atwari, Ayodhya
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Saranga Pur
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Manapur, Mawai
	<i>Solanum tuberosum</i> L.*	Solanaceae	Katrauli, Sahni
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Cenchrus americanus</i> (L.) Morr.*	Poaceae	Baragaon, Gondwa
	<i>Triticum aestivum</i> L.*	Poaceae	Ghatuli
8. <i>Paragus tibialis</i> (Fallén, 1817)			
	<i>Rhopalosiphum maidis</i> (Fitch, 1856)*		
	<i>Triticum aestivum</i> L. *	Poaceae	Ghatuli
9. <i>Sphaerophoria indiana</i> Bigot, 1884			
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Solanum melongena</i> L.*	Solanaceae	Deogaon
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya

Family/ Predator species	Aphid species (prey)/Food plant of aphid	Family of food plants	Villages
	<i>Brassica rapa</i> L.	Brassicaceae	Ayodhya
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Faizabad, Masodha
	<i>Brassica rapa</i> L.	Brassicaceae	Adilpur, Milkipur, Rudaulia
	<i>Myzus (Nectarosiphon) persicae</i> (Sulzer, 1776)*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Dabha Semar, Saranga Pur
	<i>Solanum lycopersicum</i> L.*	Solanaceae	Manapur, Mawai
10. <i>Sphaerophoria scripta</i> (Linnaeus, 1758)			
	<i>Aphis (Aphis) craccivora</i> Koch, 1854		
	<i>Lablab purpureus</i> (L.) Sweet	Fabaceae	Rampur
	<i>Aphis (Aphis) gossypii</i> Glover, 1877*		
	<i>Capsicum frutescens</i> L.*	Solanaceae	Malik Pur
	<i>Solanum melongena</i> L.*	Solanaceae	Deogaon
	<i>Brevicoryne brassicae</i> (Linnaeus, 1758)		
	<i>Brassica oleracea</i> L. var. <i>botrytis</i>	Brassicaceae	Ayodhya
	<i>Lipaphis (Lipaphis) erysimi</i> (Kalt., 1843)		
	<i>Brassica rapa</i> L.	Brassicaceae	Milkipur, Rudaulia

Table 2 List of aphidophagous insects feeding on different aphids species associated with different food plants belonging to different families in different villages in Ayodhya district.

Family	Species of predators	No. of prey species	No. of food plants	No. of plant families	No. of villages
Chrysopidae	<i>Chrysoperla carnea</i> (Stephens, 1836)	5	10	5	31
Coccinellidae	<i>Coccinella transversalis</i> Fabricius, 1781	18	48	16	122
Coccinellidae	<i>Coccinella septempunctata</i> Linnaeus, 1758	16	46	9	114
Coccinellidae	<i>Hippodamia variegata</i> (Goeze, 1777)	14	31	11	95
Coccinellidae	<i>Cheilomenes sexmaculata</i> (Fabricius, 1781)	15	22	8	48
Coccinellidae	<i>Brumoides suturalis</i> (Fabricius, 1798)	10	15	4	41
Coccinellidae	<i>Propylea japonica</i> (Thunberg, 1781)	10	15	8	37
Coccinellidae	<i>Illeis cincta</i> (Fabricius, 1798)	8	7	4	36
Coccinellidae	<i>Micraspis discolor</i> (Fabricius, 1798)	8	8	4	31
Coccinellidae	<i>Harmonia octomaculata</i> (Fabricius, 1787)	8	11	4	28
Coccinellidae	<i>Micraspis vincta</i> (Gorham, 1895)	10	9	6	28
Coccinellidae	<i>Oenopia kirbyi</i> Mulsant, 1850	8	7	4	28
Coccinellidae	<i>Anegleis cardoni</i> (Weise, 1892)	7	13	5	23
Coccinellidae	<i>Coccinella undecimpunctata</i> Linnaeus, 1758	10	13	7	22
Coccinellidae	<i>Propylea dissecta</i> (Mulsant, 1850)	9	12	7	22

Family	Species of predators	No. of prey species	No. of food plants	No. of plant families	No. of villages
Coccinellidae	<i>Harmonia dimidiata</i> (Fabricius, 1781)	9	13	6	21
Coccinellidae	<i>Scymnus pyrocheilus</i> Mulsant, 1853	5	10	6	20
Coccinellidae	<i>Harmonia eucharis</i> (Mulsant, 1853)	8	10	5	19
Coccinellidae	<i>Scymnus fuscatus</i> Boheman, 1859	6	7	5	18
Coccinellidae	<i>Propylea luteopustulata</i> (Mulsant, 1850)	6	6	4	16
Coccinellidae	<i>Micraspis allardi</i> (Mulsant, 1866)	5	8	6	15
Coccinellidae	<i>Coccinella repanda</i> Thunberg, 1781	7	7	4	14
Coccinellidae	<i>Coelophora bissellata</i> Mulsant, 1850	4	5	3	12
Coccinellidae	<i>Adalia bipunctata</i> (Linnaeus, 1758)	3	5	2	12
Coccinellidae	<i>Megalocaria dilatata</i> (Fabricius, 1775)	2	2	1	11
Coccinellidae	<i>Pseudaspidimerus flaviceps</i> (Walker, 1859)	3	5	3	9
Coccinellidae	<i>Scymnus castaneus</i> Sicard, 1929	2	2	2	8
Coccinellidae	<i>Scymnus nubilus</i> Mulsant, 1850	3	5	5	7
Coccinellidae	<i>Scymnus hilaris</i> Motschulsky, 1858	4	4	4	6
Coccinellidae	<i>Coelophora saucia</i> (Mulsant, 1850)	3	4	2	3
Coccinellidae	<i>Scymnus xerampelinus</i> Mulsant, 1853	1	1	1	2
Coccinellidae	<i>Oenopia sexareata</i> (Mulsant, 1853)	1	1	1	1
Hemerobiidae	<i>Micromus timidus</i> Hagen, 1853	7	6	5	20
Hemerobiidae	<i>Micromus igorotus</i> Banks, 1920	7	5	3	19
Syrphidae	<i>Episyrphus balteatus</i> (De Geer, 1776)	12	24	6	44
Syrphidae	<i>Ischiodon scutellaris</i> (Fabricius, 1805)	10	21	8	43
Syrphidae	<i>Paragus serratus</i> (Fabricius, 1805)	6	16	5	24
Syrphidae	<i>Eupeodes confrater</i> (Wiedemann, 1830)	4	6	3	12
Syrphidae	<i>Sphaerophoria indiana</i> Bigot, 1884	4	5	2	11
Syrphidae	<i>Allograpta javana</i> (Wiedemann, 1824)	5	5	4	6
Syrphidae	<i>Sphaerophoria scripta</i> (Linnaeus, 1758)	4	5	3	6
Syrphidae	<i>Betasyrphus serarius</i> (Wiedemann, 1830)	3	3	3	5
Syrphidae	<i>Betasyrphus isaaci</i> (Bhatia, 1933)	2	2	1	4
Syrphidae	<i>Paragus tibialis</i> (Fallén, 1817)	1	1	1	1

Table 3 List of aphid insects consumed by different number of species of predators on different different food plants in Ayodhya district.

Aphid species as prey	No. of host plant species	No. of predator species
<i>Acyrtosiphon pisum</i>	2	13
<i>Aphis aurantii</i>	2	1
<i>Aphis craccivora</i>	9	35
<i>Aphis gossypii</i>	36	34
<i>Aphis nasturtii</i>	4	3

Aphid species as prey	No. of host plant species	No. of predator species
<i>Aphis nerii</i>	3	7
<i>Aphis solanella</i>	2	4
<i>Aphis spiraeicola</i>	10	6
<i>Brevicoryne brassicae</i>	7	31
<i>Greenidea ficicola</i>	1	3
<i>Greenidea psidii</i>	1	12
<i>Hyadaphis coriandri</i>	1	7
<i>Hyalopterus pruni</i>	1	1
<i>Lipaphis erysimi</i>	8	33
<i>Macrosiphoniella sanborni</i>	1	3
<i>Macrosiphum rosae</i>	1	3
<i>Melanaphis sacchari</i>	5	16
<i>Myzus persicae</i>	21	33
<i>Rhopalosiphum maidis</i>	10	25
<i>Rhopalosiphum padi</i>	1	1
<i>Schizaphis graminum</i>	4	3
<i>Sitobion miscanthi</i>	3	16
<i>Sitobion rosaeiformis</i>	1	3

Table 4 List of plant species used as food for aphid species which are preyed by the predator species in Ayodhya district.

Plant species	No. of aphid species	No. of predator species
<i>Abelmoschus esculentus</i>	2	5
<i>Ageratum conyzoides</i>	1	1
<i>Beta vulgaris</i>	1	2
<i>Bougainvillea spectabilis</i>	1	1
<i>Brassica juncea</i>	2	11
<i>Brassica napus</i>	2	6
<i>Brassica nigra</i>	2	6
<i>Brassica oleracea</i> var. <i>botrytis</i>	3	31
<i>Brassica oleracea</i> var. <i>capitata</i>	3	13
<i>Brassica oleracea</i> var. <i>gongylodes</i>	1	1
<i>Brassica rapa</i>	3	33
<i>Cajanus cajan</i>	2	7
<i>Calotropis gigantea</i>	1	1
<i>Calotropis procera</i>	1	7
<i>Campsis radicans</i>	1	1
<i>Capsicum annum</i>	2	6
<i>Capsicum frutescens</i>	4	24
<i>Cenchrus americanus</i>	4	14

Plant species	No. of aphid species	No. of predator species
<i>Cestrum nocturnum</i>	2	2
<i>Chenopodium album</i>	1	1
<i>Chrysanthemum indicum</i>	3	5
<i>Citrus aurantium</i>	1	1
<i>Citrus aurantiifolia</i>	1	1
<i>Coccinia grandis</i>	1	1
<i>Colocasia esculenta</i>	1	3
<i>Coriandrum sativum</i>	4	10
<i>Cosmos bipinnatus</i>	1	2
<i>Cucumis sativus</i>	1	1
<i>Cucurbita maxima</i>	1	7
<i>Cynodon dactylon</i>	1	1
<i>Cyperus rotundus</i>	1	1
<i>Dahlia pinnata</i>	1	1
<i>Datura metel</i>	1	1
<i>Foeniculum vulgare</i>	1	1
<i>Gossypium herbaceum</i>	1	2
<i>Gossypium hirsutum</i>	1	2
<i>Hibiscus cannabinus</i>	1	1
<i>Hibiscus rosa-sinensis</i>	2	2
<i>Hordeum vulgare</i>	3	4
<i>Lablab purpureus</i>	2	26
<i>Lagenaria siceraria</i>	1	4
<i>Lantana camara</i>	1	1
<i>Luffa acutangula</i>	1	3
<i>Luffa aegyptiaca</i>	1	3
<i>Mangifera indica</i>	1	2
<i>Medicago sativa</i>	1	1
<i>Mentha arvensis</i>	1	2
<i>Momordica charantia</i>	1	4
<i>Nerium oleander</i>	1	3
<i>Oryza sativa</i>	1	1
<i>Parthenium hysterophorus</i>	1	1
<i>Phaseolus mungo</i>	1	1
<i>Phragmites karka</i>	1	1
<i>Pisum sativum</i>	2	14
<i>Psidium guajava</i>	3	17
<i>Raphanus sativus</i>	3	9
<i>Rosa indica</i>	4	7
<i>Saccharum officinarum</i>	2	2
<i>Sida cordifolia</i>	1	2
<i>Solanum lycopersicum</i>	3	11

Plant species	No. of aphid species	No. of predator species
<i>Solanum melongena</i>	5	30
<i>Solanum nigrum</i>	2	5
<i>Solanum tuberosum</i>	2	8
<i>Sonchus asper</i>	1	1
<i>Sorghum bicolor</i>	2	10
<i>Trigonella foenum-graecum</i>	1	4
<i>Triticum aestivum</i>	4	14
<i>Vicia faba</i>	5	16
<i>Vigna mungo</i>	1	7
<i>Vigna unguiculata</i>	1	10
<i>Vigna unguiculata</i> ssp. <i>unguiculata</i>	1	2
<i>Zea mays</i>	2	15

Acknowledgements

We are grateful to the Principal, K.S. Saket P.G. College, Ayodhya, U.P. for providing necessary facilities.

References

- Agrawal R, Singh R. 2005. New host records of aphids (Homoptera: Aphididae) in northeast Uttar Pradesh. *Journal of Aphidology*, 19: 109-111
- Ahmad ME, Kumari K. 2024. Prey records of aphidophagous syrphids with their prey and host plants in India : A review. *Journal of Biological Control*, 38(2) (in press)
- Blackman RL, Eastop VF, Kibby GG. 1997. *Taxakey: Aphids on the World's Crops*. CD-ROM. CAB International and The Natural History Museum, UK
- Chellappan M, Ranjith MT 2023. Insect predators. In: *Insect Predators in Pest Management* (Ed. Omkar). 1-54, CRC Press, Taylor and Francis Group, LLC. doi: 10.1201/9781003370864-1
- Ghorpadé KD. 1994. Diagnostic keys to new and known genera of species of Indian subcontinent Syrphinae (Diptera: Syrphidae). *Colemania*, 3: 1-15
- Ghosh AK. 1980. The Fauna of India and Adjacent countries, Homoptera, Aphidoidea, Part I. General Introduction and Subfamily Chaitophorinae. 1-124, Zoological Survey of India, Calcutta, India
- Ghosh AK. 1982a. Cervaphidini (Homoptera: Aphididae) of the world. *Oriental Insects*, 16: 77-97. doi:10.1080/00305316.1982.10434331
- Ghosh AK. 1982b. The fauna of India and the adjacent countries – Part 2. Subfamily Lachninae. 167, Zoological Survey of India, Calcutta, India
- Ghosh AK. 1984. The fauna of India and the adjacent countries – Homoptera: Aphidoidea, Part 3 Subfamily Pemphiginae. 429, Zoological Survey of India, Calcutta, India
- Ghosh AK. 1988. The fauna of India and the adjacent countries – Homoptera: Aphidoidea, Part 4 Subfamilies Phloemyzinae, Anoeciinae and Hormaphidinae. 429, Zoological Survey of India, Calcutta, India
- Ghosh AK, Agarwala BK. 1993. The fauna of India and the adjacent countries – Part 6. Subfamily: Greenideinae. 330, Zoological Survey of India, Kolkata, India
- Ghosh AK, Ghosh LK. 2006. The fauna of India – Homoptera: Aphidoidea, Part 7(1) Subfamily Aphidinae, Tribe Aphidini. 244, Zoological Survey of India, Kolkata, India

- Ghosh AK, Ghosh LK. 2017. The fauna of India – Homoptera: Aphidoidea, Part 7(2) Subfamily Aphidinae, Tribe Macrosiphini. 843, Zoological Survey of India, Kolkata, India
- Ghosh AK, Quednau FW. 1990. The Fauna of India and the Adjacent Countries: Homoptera: Aphidoidea, Part 5. Subfamily: Drepanosiphinae. 336, Zoological Survey of India, Kolkata, India
- Ghosh SK. 2000. Neuroptera fauna of North-East India. Records of Zoological Survey of India, Kolkata, Occasional Paper No. 184 : 1-179
- Hodek I, Honek A. 1996. Ecology of Coccinellidae. 480, Kluwer, Dordrecht, Netherlands
- Mall NK. 2013. Faunistic survey of aphids and their natural enemies in southeastern Uttar Pradesh. Ph. D. Thesis, D.D.U. Gorakhpur University, Gorakhpur, India. <http://hdl.handle.net/10603/223978>
- Omkar, Pervez A. 2000. Biodiversity in predaceous coccinellids (Coleoptera: Coccinellidae) in India - A review. *Journal of Aphidology*, 14: 41-66
- Omkar, Pervez A. 2004. Predaceous coccinellids in India: predator-prey catalogue. *Oriental Insects*, 38: 27-61. doi: 10.1080/00305316.2004.10417373
- Pervez A, Omkar, Harsue MA. 2020. Coccinellids on crops: nature's gift for farmers. In: Innovative Pest Management Approaches for the 21st century (Ed. Chakravarthy, A.K.), Springer Nature Singapore Pte Ltd., pp. 429-460. doi: 10.1007/978-981-15-0794-6_21
- Poorani J. 2023a. An illustrated guide to lady beetles (Coleoptera: Coccinellidae) of the Indian Subcontinent. Part 1. Tribe Coccinellini. *Zootaxa*, 5332(1): 1-307. <https://doi.org/10.11646/zootaxa.5332.1.1>
- Poorani J. 2023b. An illustrated guide to the lady beetles (Coleoptera: Coccinellidae) of the Indian Subcontinent. Part II. Tribe Chilocorini. *Zootaxa*, 5378(1): 1-108. doi: 10.11646/zootaxa.5378.1.1.
- Poorani J. 2024. An illustrated guide to lady beetles (Coleoptera: Coccinellidae) of the Indian Subcontinent. Part 3. Tribe Aspidimerini. *Zootaxa*, 5431(1): 1-89. doi: 10.11646/ZOOTAXA.5431.1.1
- Singh R, Singh G. 2016. Aphids and their biocontrol. In: Omkar (Ed.), *Ecofriendly Pest Management for Food Security*. Academic Press, pp. 63-108. doi: 10.1016/B978-0-12-803265-7.00003-8
- Singh R, Singh G. 2022. Reproductive strategies in aphids. In: *Reproductive Strategies in Insects* (Eds. Omkar, Mishra G), CRC Press, Taylor and Francis Group, LLC, pp. 259-282. doi: 10.1201/9781003043195-13
- Völkl W, Mackauer M, Pell J, Brodeur J. 2007. Predators, parasitoids and pathogens. In: van Emden H, Harrington R (Eds.), *Aphids as Crop Pests*. 187-233, CAB International, Oxford, UK