**Table S1.** Inventory of insect pests associated with cruciferous crops

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| --- | --- | --- | --- | --- | --- | --- |
| **Sl. No** | **Name of Insect Pest** | **Distribution** | **Nature of Damage** | **Damaging Stage** | **Pest Status** | **References** |
| **ORDER- Coleoptera; FAMILY- Chrysomelidae** | | | | | | |
| 1 | *Galerucella placida* Baly, 1878 | Widespread in America, Europe; Localized in South Africa; Sporadic in Southeast Asia, South America, and Australia | Leaf Feeder | Adult and Grub | Major pest of *Raphanus sativus* in America, Europe, and South Africa  Minor in Southeast Asia, South America, and Australia | Srivastava et al. 1966; Mathur and Srivastava 1967; Bhagat 2016 |
| 2 | *Monolepta signata* (Olivier, 1808) | Widespread in Southeast Asia | Leaf Feeder | Adult | Major in vegetables | Shankar et al*.* 2016; Sarma et al. 2021 |
| 3 | *Phaedon cochleariae* (Fabricius, 1792) | Localized in Mediterranean regions | Leaf Feeder | Adult and Grub | Major | De Paiva 1977; Reifenrath 2007 |
| 4 | *Phyllotreta albionica* (Le Conte, 1857) | Widespread in North and Central Ameria | Leaf Feeder | Adult | Major in Cabbage | Fall 1927; Blackwelder 1946; Burgess 1977, 1981 |
| 5 | *Phyllotreta atra* (Fabricius, 1775) | Sporadic in Europe | Leaf Feeder | Adult | Minor | Metspalu et al. 2014 |
| 6 | *Phyllotreta chotanica* Duvivier, 1892 | Localized in Indian Subcontinent and Western Australia | Leaf Feeder | Adult | Major in South India and Western Australia | Lal 1990; Lee et al. 2011 |
| 7 | *Phyllotreta cruciferae* (Goeze, 1777) | Widespread | Leaf, Pod Feeder/Root Feeder | Adult/Grub | Major in vegetables | Bakhetia and Labana 1978; Wylie 1979; Soroka and Pritchard 1984; Bhat et al. 2011; Bhagat 2016; Shankar et al. 2016; Joshi and Pandey 2022 |
| 8 | *Phyllotreta striolata* (Fabricius, 1801) | Widespread in Asia, Europe and North America; Localized in South Africa | Leaf and Inflorescence / Root Feeder | Adult/Grub | Major | Burgess 1977; Rousseau and LeSage 2016; Reeder et al. 2017; Anooj et al. 2020; Raghunandan et al. 2023 |
| 9 | *Phyllotreta* sp. | Widespread | Leaf Feeder | Adult | Major | Pandey et al. 2006 |
| 10 | *Psylloides chrysocephala* Linneaus, 1758 | Widespread in Asia, Europe, North America | Leaf Feeder/Stem Feeder | Adult/Grub | Major in vegetables | Bonnemaison and Jourdheuil 1954; Bonnemaison 1965; Graham and Alford 1981; John and Holliday 1984; Lane and Cooper 1989; Bromand 1990; Winfield 1992 |
| **ORDER- Coleoptera; FAMILY- Curculionidae** | | | | | | |
| 11 | *Ceutorhynchus assimilis* Germar, 1824 | Widespread in USA | Flower/ Pod Eater | Adult/Grub | Major in USA | Boyd 1991 |
| 12 | *Ceutorhynchus napi* Germar, 1824 | Widespread in Europe | Flower/ Stem and Pod Feeder | Adult/Grub | Major in Europe | Colonnelli 2004 |
| 13 | *Ceutorhynchus obstrictus* (Marsham, 1802) | Widespread in Europe, North America; localized in Asia and Africa | Flower/ Pod and Seed Feeder | Adult/Grub | Major in America and Europe | Laborius 1972; Lerin 1984; Harmon and NcCaffrey 1997; Tamutis 2002; Colonnelli 2004; Prishchepa et al. 2004 |
| 14 | *Ceutorhynchus pallidactylus* (Marsham, 1802) | Widespread | Flower/ Pod and Seed Feeder | Adult/Grub | Major | Prishchepa et al. 2004 |
| 15 | *Myllocerus* sp. | Sporadic | Leaf/Root Feeder | Adult/Grub | Minor | Debbarma et al. 2017 |
| 16 | *Tanymecus dilaticollis* Gyllenhal, 1834 | Widespread in Central and Southern Europe | Leaf and Root feeder | Adults and Grubs | Major in Europe | Paulian 1972 |
| **ORDER- Coleoptera; FAMILY- Nitidulidae** | | | | | | |
| 17 | *Meligethes aenus* (Fabricius, 1775) | Widespread in Europe, North America; localized in Middle East; sporadic in North Africa | Flower bud and Pod Feeder | Adult and Grub | Major in Europe, Middle East, and USA  Minor in Northern Africa | Easton 1955, 1957 |
| **ORDER- Coleoptera; FAMILY- Scarabaeidae** | | | | | | |
| 18 | *Adoretus* sp. | Widespread in Southeast Asia and Pacific Islands; Localized in USA | Leaf Feeder | Adult | Minor | Arita etal. 1993; Bhat et al. 1994; Bhagat 2016 |
| 19 | *Anomala rufiventris* Redtenbacher, 1848 | Widespread | Leaf Feeder | Adult | Minor | Bhat and Ahanger 2018 |
| 20 | *Holotrichia consanguinea* Blanchard, 1850 | Widespread | Root Feeder | Grub | Major in rainfed areas of India | Bhagat 2016; Pandey et al. 2006 |
| 21 | *Holotrichia* sp. | Widespread | Root Feeder | Grub | Minor | Bhagat 2016; Bhat 2008; Pandey et al. 2006 |
| **ORDER- Dermaptera; FAMILY- Forficulidae** | | | | | | |
| 22 | *Forficula auricularia* Linneaus, 1758 | Widespread in Asia, Australia, Europe and North America; Sporadic in Africa | Leaf/Head Feeder | Nymphs and Adults | Major in Australia  Minor in other regions | Wirth et al. 1998; Guillet et al. 2000 |
| **ORDER- Diptera; FAMILY- Agromyzidae** | | | | | | |
| 23 | *Chromatomyia horticola* (Goureau, 1851) | Widespread in Asia, Europe; localized in Africa | Leaf Miner | Maggot | Major | Bhagat et al. 1989; Bhat 2009; Bhat et al. 2011, Bhat and Bhagat 2017 |
| 24 | *Liriomyza bryoniae* (Kaltenbach, 1858) | Widespread in Asia; Sporadic in North Africa | Leaf Miner | Maggot | Minor | Kalutskii 1992 |
| 25 | *Liriomyza sativae* Blanchard, 1938 | Widespread in Micronesia | Leaf Miner | Maggot | Major | Muniappan and Esguerra 1999 |
| 26 | *Liriomyza trifolii* (Burgess, 1880) | Widespread | Leaf Miner | Maggot | Major | Muniappan and Esguerra 1999 |
| 27 | *Phytomyza rufipes* Meigen, 1830 | Widespread in Himalayan regions | Leaf Miner | Maggot | Major in Cabbage | Bhagat et al. 1989; Bhat 2009; Bhat et al. 2011 |
| **ORDER- Diptera; FAMILY- Anthomyiidae** | | | | | | |
| 28 | *Delia antiqua* (Meigen, 1826) | Widespread in Asia, Europe and North America; Localized in North Africa | Root and Seedling Feeder | Maggot | Major | Pandey et al. 2006 |
| 29 | *Delia floralis* (Fallen, 1824) | Widespread in Asia, Europe and North America | Root and Seedling Feeder | Maggot | Major | Pandey et al. 2006 |
| 30 | *Delia florilega* (Zetterstedt, 1845) | Widespread in Canada and Europe | Root and Seedling Feeder | Maggot | Major | Pandey et al. 2006 |
| 31 | *Delia planipalpis* (Stein, 1898) | Widespread in Canada and Europe | Root and Seedling Feeder | Maggot | Major | Pandey et al. 2006 |
| 32 | *Delia platura* (Meigen, 1826) | Widespread in Europe and USA | Root and Seedling Feeder | Maggot | Major in Cabbage | Shankar et al. 2016; Meraz-Álvarezet al. 2020 |
| 33 | *Delia radicum* (Linneaus, 1758) | Widespread in Northern Hemisphere | Root Feeder | Maggot | Major | Collier et al. 1991; Rousse et al. 2003 |
| **ORDER- Diptera; FAMILY- Cecidomyiidae** | | | | | | |
| 34 | *Dasineura brassicae* (Winnertz, 1853) | Localized in Europe; sporadic in North-west Africa | Pod & Seed Feeder | Maggot | Minor | Axelsen, 1992; Lahmer et al. 1992; Winfield 1992 |
| **ORDER- Diptera; FAMILY- Tipulidae** | | | | | | |
| 35 | *Tipula paludosa* Meigen, 1830 | Widespread in Europe, North America | Seedling eater | Maggot | Minor | Rennie 1916; Jackson and Campbell 1975; Oosterbroek and Theowald 1992; Dawson et al. 2003; Seebens et al. 2017 |
| **ORDER- Hemiptera; FAMILY- Aleyrodidae** | | | | | | |
| 36 | *Bemisia argentifolii* Bellows & Perring, 1994 | Widespread | Leaf Feeder | Nymph and Adult | Major | Muniappan and Esguerra 1999 |
| **ORDER- Hemiptera; FAMILY- Aphididae** | | | | | | |
| 37 | *Brachycaudus helichrysi* (Kaltenbach, 1843) | Widespread in Asia, Europe, North America and Oceania; Localized in Africa and South America | Leaf/Flower Bud/Seed feeder | Nymph and Adult | Major | Khan et al. 2017 |
| 38 | *Brevicoryne brassicae* (Linneaus, 1758) | Widespread | Leaf/Flower Bud feeder | Nymphs and Adults | Major in vegetables | Rishi et al. 1967; Ahmad and Bhat 1986; Zaki 1999; Zaz 2001; Pandey et al. 2006; Farzadfar et al. 2007; Khan et al. 2009; Bhat et al. 2011; Pajović 2011; Bhagat 2012; Nematollahi et al. 2018; Sunil and Sangma 2015; Kök et al. 2016; Shankar et al. 2016; Bhat 2017; Bhat and Bhagat 2017; Bhat and Ahanger 2018; Kindlmann et al. 2020 |
| 39 | *Lipaphis erysimi* (Kaltenbach, 1843) | Widespread | Leaf/Flower Bud feeder | Nymphs and Adults | Major in Mustard | Rishi et al. 1967; Bhagat 1986; Zaki 1999; Pandey et al. 2006; Bhat et al. 2011; Bhagat 2012; Yadav et al. 2014; Adhab and Schoelz 2015; Sunil and Shangma 2015; Bhat and Ahanger, 2018; Atta et al. 2019; Maryam  et al. 2019; |
| 40 | *Lipaphis pseudobrassicae* Davis, 1914 | Widespread in hilly areas of Himalaya | Leaf/Flower Bud feeder | Nymphs and Adults | Major in vegetables in hills | Pandey et al. 2006; Khan et al. 2017 |
| 41 | *Myzus persicae* (Sulzer, 1776) | Widespread | Leaf/Flower Bud feeder | Nymph and Adult | Major | Debbarma et al. 2017 |
| **ORDER- Hemiptera; FAMILY- Cicadellidae** | | | | | | |
| 42 | *Circulifer tenellus* (Baker, 1896) | Widepsread in North America, Africa and Middle East; Localized in South Africa and South America | Leaf feeder | Nymph and Adult | Minor | Banuelos et al. 1999 |
| 43 | *Macrosteles quadripunctulatus* (Kirschbaum, 1868) | Widespread in Europe; Localized in Northwest India; Sporadic in USA | Leaf Feeder | Nymph and Adult | Minor | Bhat and Sheikh 1999 |
| 44 | *Macrosteles sexnotatus* (Fallen, 1806) | Widespread in Europe; Localized in Northwest India; Sporadic in USA | Leaf Feeder | Nymph and Adult | Minor | Bhat and Sheikh 1999 |
| **ORDER- Hemiptera; FAMILY- Coreidae** | | | | | | |
| 45 | *Cletus* sp. | Widespread in South Africa, South India, and South East Australia | Leaf Feeder | Nymph and Adult | Minor | Shankar et al. 2016 |
| **ORDER- Hemiptera; FAMILY- Miridae** | | | | | | |
| 46 | *Halticus tibialis* Reuter, 1891 | Widespread in Micronesia | Leaf Feeder | Nymph and Adult | Major | Muniappan and Esguerra 1999 |
| 47 | *Lygus lineolaris* (Palisot de Beauvois, 1818) | Widespread in North America | Flower bud, Flower and Seed feeder | Nymphs and Adults | Major | Butts and Lamb 1990, 1991; Turnock et al. 1995; Leferink and Gerber 1997; Boyd and Lentz 1999 |
| **ORDER- Hemiptera; FAMILY- Pentatomidae** | | | | | | |
| 48 | *Bagrada hilaris* (Burmeister, 1835) | Widespread in Africa, Asia, North America | Leaf/Inflorescence Feeder | Nymphs and Adults | Major | Gupta and Sharma 1971; Joshi et al. 1989; Lal and Singh, 1993; Verma et al. 1993; Vekarta and Patel 1999; Rohilla et al. 2004; Ghosal et al. 2005; Ahuja et al. 2008; Sahito et al. 2010; Malik et al. 2012; Bundy et al. 2012; Huang et al. 2013, 2014; Biswas et al. 2014; Joseph 2014; Sánchez-Peña 2014; Yadav et al. 2014; Palumbo et al. 2015; Divya et al. 2015; Taylor et al. 2015; Faúndez et al. 2016; Shankar et al. 2016; Patel et al. 2017; Masroor et al. 2022 |
| 49 | *Dolycoris indicus* Stål, 1876 | Localized in Southeast Asia | Leaf/Inflorescence Feeder | Nymph and Adult | Major in Mustard (Kashmir Valley, India) | Azim 2000, 2011; Azim and Bhat 2010; Bhagat 2015 |
| 50 | *Eurydema festivum* (Dejean, 1831) | Widespread in Europe; Localized in Middle East | Leaf/Inflorescence Feeder | Nymph and Adult | Minor | Azim 2011; Azim and Bhat 2010; Bhagat 2015 |
| 51 | *Eurydema oleracea* (Linnaeus, 1758) | Widespread in Europe, Russia | Leaf/Inflorescence Feeder | Nymph and Adult | Major in Cabbage | Azim 2011; Azim and Bhat 2010; Bhagat 2015 |
| 52 | *Eurydema ornatum* (Linneaus, 1758) | Widespread in Southeast Europe | Leaf/Inflorescence Feeder | Nymph and Adult | Major | Caglayan 1990; Kivan and Kilic 2000 |
| 53 | *Eurydema pulchrum* (Westwood, 1837) | Widespread in Southeast Asia | Leaf/Inflorescence feeder | Nymph and Adult | Major in Cabbage in hills | Azim 2011; Azim and Bhat 2010; Bhat et al. 2011; Bhagat 2015 |
| 54 | *Eurydema rugosum* Fraser, 1940 | Widespread in Asia and Eastern Europe | Leaf/Inflorescence feeder | Nymph and Adult | Minor | Morimoto et al. 1991; Ikeda-Kikue and Numata 1992 |
| 55 | *Eurydema ventralis* Kolenati, 1846 | Widespread in Europe; Localized in Russia | Leaf/Inflorescence Feeder | Nymph and Adult | Major in Cabbage | Bonnemaison 1965 |
| 56 | *Halyomorpha halys* (Stål, 1855) | Invasive in North America; Widespread in Asia, Europe and Oceania; Localized in Africa | Leaf/Inflorescence/Seed Feeder | Nymph and Adult | Major in North America  Minor in Africa, Asia, Europe, and Oceania | Kawada and Kitamura 1992; Hoebeke and Carter 2003; Lee et al. 2013 |
| 57 | *Madates parva* Rider, 2006 | Localized in India | - | - | - | Salini 2019 |
| 58 | *Murgantia histrionica* (Hahn, 1834) | Localized in USA | Leaf and Flower Feeder | Nymph and Adult | Major in vegetables | Chittenden 1920; Bonnemaison 1965; Ludwig and Kolk 1998, 2001 |
| 59 | *Nezara viridula* (Linneaus, 1758) | Widespread | Leaf and Inflorescence Feeder | Nymph and Adult | Minor | Muniappan and Esguerra 1999; Sharma et al. 2017 |
| **ORDER- Hymenoptera; FAMILY- Formicidae** | | | | | | |
| 60 | *Solenopsis geminate* (Fabricius, 1804) | Sporadic | Seedling Riddler | Adult | Minor | Muniappan and Esguerra 1999 |
| **ORDER- Hymenoptera; FAMILY- Tenthridinidae** | | | | | | |
| 61 | *Athalia lugens proxima* (Klug, 1813) | Widespread | Leaf Feeder | Grub | Major | Bonnemaison 1965; Chowdhury 2009; Jayanthi and Ramesh 2014; Kumaranag et al. 2014; Sharma et al. 2017; Das 2020 |
| 62 | *Athalia colibri* Christ, 1791 | Widespread in Jammu & Kashmir, India | Leaf Feeder | Grub | Major in hills | Rishi et al. 1967; Bhat et al. 2011 |
| 63 | *Athalia rosae* (Linneaus, 1758) | Widespread in Europe, Localized in Asia | Leaf Feeder | Grub | Major in Europe | Benson 1931a, 1931b, 1935, 1962 |
| **ORDER- Lepidoptera; FAMILY- Crambidae** | | | | | | |
| 64 | *Crocidolomia pavonana* (Fabricius, 1794) | Widespread | Leaf Webber | Caterpillar | Major in Vegetables | Ooi and Kelderman 1979; Muniappan et al. 2001; Takeuchi et al. 2009; Karungi et al. 2010; Singhamuni and Hemachandra 2013; Uelese et al. 2014; Yadav et al. 2014; Sulifoa et al. 2016; Labou et al. 2017; Bhat and Ahanger 2018; Gaikwad et al. 2018 |
| 65 | *Evergestis forficalis* (Linneaus, 1758) | Widespread | Leaf Feeder | Caterpillar | Major | Gupta 1992;  Bhat et al. 2011; Bhat 2023 |
| 66 | *Hellula rogatalis* (Hulst, 1886) | Widespread in North America | Leaf Webworm, Stalk and head feeder | Caterpillar | Major | Allyson 1981 |
| 67 | *Hellula undalis* (Fabricius, 1794) | Widespread in Africa, Asia, Europe; localized in US and Peru | Head Borer/Leaf Feeder/Webworm | Caterpillar | Major in vegetables | Nair 1970; Butani and Jotwani, 1984; David 2001; Capinera 2001; Shankar et al. 2016. |
| **ORDER- Lepidoptera; FAMILY- Erebidae** | | | | | | |
| 68 | *Euproctis* sp. | Widespread | Leaf Feeder | Caterpillar | Minor | Butani and Jotwani 1984 |
| 69 | *Orgyia* sp. | Widepsread in Europe and North America; Localized in Asia | Leaf Feeder | Caterpillar | Minor | Shankar et al. 2016 |
| 70 | *Spilosoma obliqua* (Walker, 1855) | Widespread | Leaf Feeder | Caterpillar | Minor | Debbarmaet al. 2017 |
| **ORDER- Lepidoptera; FAMILY- Gelechiidae** | | | | | | |
| 71 | *Phthorimaea operculella* (Zeller, 1873) | Widespread | Leaf Miner/ Head Feeder | Caterpillar | Minor | Chittenden 1912; Varela and Bernays 1988 |
| 72 | *Phthorimaea absoluta* Meyrick, 1917 | Widespread | Leaf Miner/Pinworm | Caterpillar | Minor | Robinson et al. 2010 |
| **ORDER- Lepidoptera; FAMILY- Hesperiidae** | | | | | | |
| 73 | *Pelopidas methias* (Fabricius, 1798) | Widespread in Southeast Asia; Sporadic in Africa and Saudi Arabia | Leaf Feeder | Caterpillar | Minor | Atwal and Dhaliwal 1999; Bhagat 2017; Qureshi et al. 2013 |
| **ORDER- Lepidoptera; FAMILY- Noctuidae** | | | | | | |
| 74 | *Agrotis c-nigrum* (Linneaus, 1758) | Localized in India and Mediterranean Region | Cutworm/ Budworm | Caterpillar | Minor | Nair 1970; Butani and Jotwani 1984; David 2001 |
| 75 | *Agrotis ipsilon* (Hufnagel, 1766) | Widespread | Cutworm/Leaf feeder | Caterpillar | Minor | Nair 1970; Butani and Jotwani 1984; Badenes-Perez and Shelton 2006 |
| 76 | *Agrotis segetis* Hübner, 1803 | Localized in Africa, Europe and India | Cutworm/ Stem Cutter | Caterpillar | Minor | Butani and Jotwani 1984; David 2001 |
| 77 | *Agrotis spinifera* (Hübner, 1808) | - | Budworm | Caterpillar | Minor | Butani and Jotwani 1984 |
| 78 | *Autographa nigrisigma* (Walker, 1857) | Localized in Southeast Asia | Leaf Feeder | Caterpillar | Minor | Nair 1970; Butani and Jotwani 1984 |
| 79 | *Chrysodeixis chalcites* (Esper, 1789) | Widespread in Africa, Australia, Canada, Europe, Southeast Asia. | Leaf Webber & Feeder | Caterpillar | Minor | Butani and Jotwani 1984; Gupta 1990 |
| 80 | *Chrysodeixis eriosoma* (Doubleday, 1843) | Widespread in Asia, Australia, Europe, US | Leaf & Fruit feeder | Caterpillar | Minor | Butani and Jotwani 1984; Muniappan and Esguerra 1999; David 2001 |
| 81 | *Copitarsia decolora* (Guenée, 1852) | Localized in Argentina, Chile, Mexico, US | Leaf, Flower stalk, Floral bud, Petal feeder | Caterpillar | Major in North and South American countries | Flores-Perez et al. 2004; Suarez-Vargas et al. 2006; Pogue and Simmons 2008; Pogue 2014 |
| 82 | *Helicoverpa armigera* (Hübner, 1808) | Widespread | Leaf/ Head Feeder | Caterpillar | Major | Armes et al. 1996; Saucke et al. 2000; Scott et al. 2005; Duffield and Steer 2006; Endersby et al. 2007; Bhat et al. 2011; Yadav et al. 2014; Vajgand 2017; Joshi and Pandey 2022 |
| 83 | *Mamestra brassicae* (Linneaus, 1758) | Widespread in Asia and Europe | Leaf Feeder | Caterpillar | Major | Ogaard 1983; Finch and Thompson 1992; Turnock and Carl 1995; Cartea et al. 2009, 2010; Robinson et al. 2010; Wu et al. 2015; Bhat et al. 2016 |
| 84 | *Plusia signata* (Fabricius, 1794) | Widespread in Africa, Asia, Oceania | Leaf Feeder | Caterpillar | Major | Nair 1970; Butani and Jotwani 1984 |
| 85 | *Spodoptera exigua* (Hübner, 1808) | Widespread in Europe, North America, Oceania; Localized in East and Southeast Asia | Leaf Feeder | Caterpillar | Minor | Nair 1970; Butani and Jotwani 1984; David 2001; Capinera 2001 |
| 86 | *Spodoptera eridania* Stoll, 1781 | Widespread in South America; Localized in North America and India | Leaf Feeder/ Armyworm | Caterpillar | Minor | Ferguson et al. 1991; Dias et al. 2009 |
| 87 | *Spodoptera frugiperda* (Smith, 1797) | Widespread | Leaf Feeder | Caterpillar | Minor | Hagbardsland 2018 |
| 88 | *Spodoptera litura* (Fabricius, 1775) | Widespread | Leaf Feeder/ Cutworm | Caterpillar | Major in vegetable | Nair 1970; Butani and Jotwani 1984; David 2001; Solangi et al. 2001; Su et al. 2012; Ahmad et al. 2013; Yadav et al. 2014; Ahmad and Mehmood 2015; Ramasamy et al. 2020; Joshi and Pandey 2022 |
| 89 | *Spodoptera mauritia acronyctoides* Guenée, 1852 | Widespread in Southeast Asia and Australia; Localized in USA in Canada | Leaf and Stem Feeder | Caterpillar | Major in vegetable | Waterhouse1993 |
| 90 | *Thysanoplusia orichalcea* (Fabricius, 1775) | Widespread in Africa, Asia, Australia & Europe | Leaf/ Head/ Curd Feeder | Caterpillar | Major in Vegetable | Nair 1970; Butani and Jotwani 1984; Hill et al. 1987; David 2001; Capinera 2001; Bhat 2020 |
| 91 | *Trichoplusia ni* (Hübner, 1800-1803) | Widespread | Leaf Feeder | Caterpillar | Major in Vegetable | Bonnemaison 1965; Nair 1970; Greene 1972; Butani and Jotwani 1984; Gupta 1990; Capinera 2001; David 2001 |
| **ORDER- Lepidoptera; FAMILY- Pieridae** | | | | | | |
| 92 | *Pieris brassicae* (Linneaus, 1758) | Widespread in Asia, Europe, North America, Australia and localized in North and South Africa | Leaf feeder | Caterpillar | Major in vegetable | Nair 1970; Shapiro 1975; Carcasson 1981; Butani and Jotwani 1984; Jamdar 1991; Ram and Pathak 1992; Bhatia and Verma 1993; Bhatia et al. 1995; Claassens 1995; Sood and Bhalla 1996; Thakur 1996;  Bhalla et al. 1997; Gautam and Philip 1997; Thakur and Deka 1997 Lal and Ram 2004; Younas et al. 2004; Mohan et al. 2005; Kamboj et al. 2006; Pandey et al. 2006; Badenes-Perez and Shelton 2006; Hwang et al. 2008; Hasan and Ansari 2010 |
| 93 | *Pieris brassicae kashmiresis* Rishi, 1973 | Localized in J&K | Leaf feeder | Caterpillar | Major in vegetable | Rishi 1973; Bhagat 2017 |
| 94 | *Pieris canidia* (Sparrman, 1768) | Widespread in Southeast Asia | Leaf Feeder | Caterpillar | Major in vegetable | Nair 1970; Butani and Jotwani 1984 |
| 95 | *Pieris napi* (Linneaus, 1758) | Widespraed in Asia, Europe; Sporadic in US and North Africa | Leaf Feeder | Caterpillar | Major in vegetable | Branger 1983; Popov and Popova 1993 |
| 96 | *Pieris oleracea* Harris, 1829 | Widespread in North America | Leaf Feeder | Caterpillar | Major in vegetable | Butani and Jotwani 1984 |
| 97 | *Pieris rapae* (Linneaus, 1758) | Widespread in Asia, Europe, North America; Sporadic in Africa and Australia | Leaf Feeder | Caterpillar | Major in vegetable | Butani and Jotwani 1984; Yin et al. 1989; Capinera 2001; Muthukumar et al. 2007; Bhat and Bhagat 2009; Braby 2012; Hasanshahi et al. 2013 |
| 98 | *Pontia daplidice* (Linneaus, 1758) | Widespread in Europe; Sporadic in Asia | Leaf Feeder | Caterpillar | Minor | Bingham et al. 1907; Mani and Singh 1962; Varshney 1993; Bhat et al. 2011; Qureshi et al. 2013; Bhagat 2017 |
| 99 | *Pontia glouconome* Klug, 1829 | Localized in Africa and Saudi Arabia | Leaf Feeder | Caterpillar | Minor | Ahmad and Bhat 1986; Bhat 2008 |
| **ORDER- Lepidoptera; FAMILY- Plutellidae** | | | | | | |
| 100 | *Plutella xylostella* (Linneaus, 1758) | Widespread | Leaf/ Flower bud/ Flower/ Head/Curd/Siliques feeder | Caterpillar | Major | Butani and Jotwani 1984; Bhatia and Verma 1993; David 2001; Capinera 2001; Ayalew and Ogol 2006; Pandey et al. 2006; Dosdall et al. 2011; Wei et al. 2013; Yadav et al. 2014; Bhat and Ahanger 2018; Joshi and Pandey 2022 |
| **ORDER- Orthoptera; FAMILY- Acrididae** | | | | | | |
| 101 | *Aliopus tamulus* (Fabricius, 1798) | Localized in Micronesia | Leaf feeder | Nymph and Adult | Minor | Muniappan and Esguerra 1999 |
| 102 | *Oxya hyla intricate* (Stal, 1861) | Localized in Micronesia | Leaf feeder | Nymph and Adult | Minor | Muniappan and Esguerra 1999 |
| **ORDER- Orthoptera; FAMILY- Tetrigidae** | | | | | | |
| 103 | *Microcentum retinerve* (Burmeister, 1838) | Widespread in North America; Sporadic in Asia | Leaf feeder | Nymphs and Adults | Minor | Shankar et al. 2016 |
| **ORDER- Thysanoptera; FAMILY- Aeolothripidae** | | | | | | |
| 104 | *Aeolothrips meridionalis* Priesner, 1919 | Localized in Southeast Asia | Leaf Feeder | Nymphs and Adults | Major in the said region | Bhagat 2009 |
| **ORDER- Thysanoptera; FAMILY- Thripidae** | | | | | | |
| 105 | *Thrips palmi* Karny, 1925 | Widespread | Leaf Feeder | Nymph and Adult | Major | Bansiddhi and Poonchaisri 1991 |
| 106 | *Thrips tabaci* Lindeman, 1889 | Widespread | Leaf feeder | Nymph and Adult | Major | Bansiddhi and Poonchaisri 1991; Pénzes et al. 1996; Muniappan and Esguerra 1999; Trdan et al. 2005 |