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Predators and parasites in Western Australia

PEST		PARASITE OR PREDATOR			
Common name	Scientific name	Name	Type	Introduced from	Date
HORTICULTURAL PESTS					
Woolly aphid	<i>Eriosoma lanigerum</i> (Hausmann)	<i>Aphelinus mali</i> (Haldemann)** <i>Harmonia conformis</i> (Boisduval)**	wasp parasite ladybird predator	Egypt Tasmania	1933 1893
Black scale	<i>Saissetia oleae</i> (Oliver)	<i>Scutellista cyanea</i> Motschulsky* <i>Metaphycus loundsburyi</i> Howard**	wasp parasite wasp parasite	California Capetown	1904 1902
California red scale	<i>Aonidiella aurantii</i> (Maskell)	<i>Tomocera californica</i> ** <i>Aphytis chrysomphali</i> (Mercet)** <i>Comperiella bifasciata</i> Howard*	wasp parasite wasp parasite wasp parasite	NSW China	1902 1905
Soft brown scale	<i>Coccus hesperidum</i> Linnaeus	<i>Aphytis melinus</i> De Bach and other <i>Aphytis</i> ** <i>Chilocorus</i> spp.† <i>Scutellista</i> spp.‡	wasp parasite ladybird predators wasp parasite	Japan and California India California India	1909 1961-2 1960-1 1960-3
San José scale	<i>Comstockaspis perniciosus</i> (Comstock)	<i>Aphytis</i> spp.* <i>Chilocorus</i> spp.†	wasp parasites ladybirds	California and India	1960-3
Grapevine scale	<i>Parthenolecanium persicae</i> (Fabricius)	<i>Aphycus timberlakei</i> Ishii**	wasp parasite	Japan via California	1907
White wax scale	<i>Gascardia destructor</i> (Newstead)	<i>Anicetus communis</i> Annecke*	wasp parasite	South Africa via CSIRO	1973-4
Mealybugs	<i>Pseudococcus</i> spp.	<i>Cryptolaemus montrouzieri</i> Mulsant**	ladybird predator	NSW and Queensland	1902
Cabbage aphid	<i>Brevicoryne brassicae</i> (Linnaeus)	<i>Dioeretus rapae</i> Curtis** <i>Coccinellid</i> spp.**	wasp parasite ladybird predators	Sri Lanka Sri Lanka and Eastern States	1907 1895-1907
Green vegetable bug Also Ord River crops	<i>Nezara viridula</i> (Linnaeus)	<i>Trissolcus basalis</i> (Wollaston) <i>Trichopoda pilipes</i> (Fabricius)†	wasp egg parasite fly parasite	Egypt Florida Hawaii and Trinidad	1933 1932-3 and 1978-80
Two-spotted mite	<i>Tetranychus urticae</i> Koch	<i>Typhlodromus occidentalis</i> Nesbitt* Manjimup only*	predatory mite	CSIRO ex North America	1975-77
Cabbage white butterfly	<i>Pieris rapae</i> (Linnaeus)	<i>Pteromalus puparum</i> (Linnaeus)** <i>Apanteles glomeratus</i> (Linnaeus)**	wasp parasite of pupa wasp parasite of larva	Tasmania CSIRO ex N. America and England	1943 1950
Cabbage moth	<i>Plutella xylostella</i> (Linnaeus)	<i>Hymenobosmina rapi</i> (Cameron)* <i>Horogenes</i> spp.*	wasp parasites	possibly NSW CSIRO ex N. Z. & Europe	1902 1950
Potato moth	<i>Phthorimaea operculella</i> (Zeller)	<i>Bracon gelechia</i> Ashmead* <i>Copidosoma koehleri</i> * Blanchard and others*	wasp parasite wasp parasite wasp parasite	CSIRO CSIRO CSIRO	1952-4 and 1965
Mediterranean fruit fly	<i>Ceratitis capitata</i> (Wiedemann)	<i>Opius</i> spp.‡ <i>Opius concolor</i> ‡ Szepl.	wasp parasites wasp parasite	CSIRO ex Hawaii France	1958-59 1962
BROADACRE PESTS					
Northern armyworm	<i>Mythimna separata</i> (Walker)	<i>Apanteles ruficrus</i> (Haliday)** Kimberleys	wasp parasite	N.Z. ex Pakistan	1979
Common armyworm	<i>Mythimna convecta</i> (Walker)	<i>Apanteles ruficrus</i> (Haliday)† Esperance			
Red legged earthmite	<i>Halotydeus destructor</i> (Tucker)	<i>Anystis</i> spp.*	predatory mite	CSIRO ex Morocco	1965
Lucerne flea	<i>Sminthurus viridula</i> L. Linnaeus	<i>Bdellodes lapidaria</i> (Kramar)**	mite predator	Discovered in W.A.	1931
Wingless grasshoppers	<i>Phaulacridium</i> spp.	<i>Nosema locustae</i> †	protozoan disease	Victoria ex U.S.A.	1979-80
Yellow-winged locust and other grasshoppers	<i>Austracris guttulosa</i> (Walker)				
Spotted alfalfa aphid	<i>Therioaphis trifolii</i> (Monell)	<i>Trioxys complanatus</i> Quilis and others*	wasp parasites	CSIRO ACT ex	1978 and
Blue-green aphid	<i>Acyrtosiphon kondoi</i> Shinji	<i>Aphidius</i> spp.* <i>Aphelinus</i> spp.*	wasp parasites	North America	1979
WEEDS AND OTHER PESTS					
St. Johns Wort	<i>Hypericum perforatum</i> Linnaeus	<i>Chrysolina quadrigemina</i> Rossi**	chrysolimid beetle	CSIRO ex England and France	1947-53
Doublegees	<i>Emex</i> spp.	<i>Perapion antiquum</i> (Gyllenhal)‡	emex weevil	CSIRO ex S. Africa	1974-76
Docks and doublegees	<i>Rumex</i> spp. and <i>Emex</i> spp.	<i>Lixus cribricollis</i> Boheman	stem boring weevil	CSIRO ex Morocco	1979-80
Mosquitoes	<i>Culex</i> spp.	<i>Gambusia affinis</i> (Baird, Girard)**	mosquito fish predator	Eastern States	1934
Australian sheep blowfly	<i>Lucilia cuprina</i> (Wiedemann)	Sarcophagid† <i>Nasonia</i> spp.* <i>Alysia manducator</i> Panzer†	scavenger fly wasp pupal parasite wasp larval parasite	Japan N.S.W. and Queensland N.S.W. and CSIRO	1911 1915-25 1928-30

** Established and effective * Established ‡ Not established † Unknown