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**NATURAL RESOURCES COMMISSION****Information Bulletin #44****(First Amendment)****Subject:** List of Beneficial Organisms Exempted from Licensure**1. Purpose**

This information bulletin assists primarily in the administration of [312 IAC 18-3-15](#). The information bulletin may also be cross-referenced and incorporated by reference into other rules or documents.

A beneficial organism listed here is exempted from licensure under [312 IAC 18-3-15\(d\)](#) or may be released under a general license. Unless the terms of a general license are specified in this information bulletin, however, the organism is exempted, or may be used only as a fishing bait, or domestic pet food (annotated as BPF) under this exemption. Annotated species include wax moth and house cricket.

List Development and Modification: The Department of Natural Resources developed the list based on the best current information available. The department will seek approval of modifications, from the Natural Resources Commission, as additional data becomes available. The modifications will be set forth in amendments to this information bulletin.

For more information concerning a listed organism, or to suggest modifications to the listing, please contact the following:

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Division of Entomology and Plant Pathology  
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**2. Qualification and Listed Organisms**

For a beneficial organism to qualify for an exemption or general license under [312 IAC 18-3-15\(d\)](#), the organism must originate from cultures free of parasites and pathogens. Bacterial, fungal, or viral beneficial organisms registered by the United States Environmental Protection Agency and the Office of the Indiana State Chemist are exempted. In addition, the following are exempted:

Bacteria

Arthrobacter globiformis  
Bacillus lentimorbus  
Bacillus popillae  
Bacillus thuringiensis  
Bacillus thuringiensis var. kurstaki  
Nosema necatrix  
Pseudomonas fluorescens

Earthworms

Eisenia fetida ( = foetida) (Manure Worm, Tiger Worm, Red Wiggler)  
Eisenia hortensis (European Nightcrawler)  
Lumbricus terrestris (Nightcrawler, Dew Worm)

Fungi

Entomophaga maimaiga  
Gliocladium virens  
Trichoderma harzianum

Insects

Ablerus clisiocampae  
Aceratoneuromyia indica  
Acheta domesticus (House Cricket) (BPF)  
Adalia bipunctata (Twospotted Lady Beetle)  
Agathis pumila (Larch Casebearer Parasitic Wasp)  
Ageniaspis fuscicollis  
Agraulis vanillae (Gulf Fritillary Butterfly)  
Agrilus hyperici (St. John's Wort Beetle)  
Amblyseius fallacis  
Amblyseius swirskii  
Anagrus epos  
Anagrus spiritus  
Anagyrus pseudococci  
Anaphes flavipes  
Anaphes iole (Fairyfly)

Anisopteromalus calandrae (Pteromalid Wasp Parasitoid)  
Apanteles fumiferanae  
Aphelinus abdominalis  
Aphelinus fuscipennis  
Aphidius colemani  
Aphidius ervi (Lucerne Aphid Parasite)  
Aphidius matricariae  
Aphidoletes abietis  
Aphidoletes aphidimyza  
Aphthona cyparissiae (Brown Dot Leafy Spurge Flea Beetle)  
Aphthona flava (Copper Leafy Spurge Flea Beetle)  
Aphthona nigricutis (Black Dot Spurge Flea Beetle)  
Aphytis melinus (Red Scale Parasite)  
Apion fuscirostre (Scotch Broom Seed Weevil)  
Apion ulicis (Gorse Seed Weevil)  
Apis mellifera (Honey Bee)  
Arrhenophagus chionaspidis  
Bangasternus orientalis (Yellow Starthistle Bud Weevil)  
Bathyplectes anurus  
Bathyplectes curculionis  
Bathyplectes stenostigma  
Blondelia nigripes  
Brachymeria intermedia  
Bracon hebetor  
Bracon kirpatricki  
Bracon pini  
Bracon rhyacioniae (Pine tip moth parasitoid)  
Calosoma sycophanta  
Ceutorhynchus litura (Canada Thistle Stem Mining Weevil)  
Chelonus annulipes  
Chilocorus kuwanae  
Chilocorus nigritus  
Chrysolina quadrigemina (Klamathweed Beetle)  
Chrysoperla carnea (Common Green Lacewing)  
Chrysoperla comanche (Comanche Lacewing)  
Chrysoperla rufilabris  
Coccinella septempunctata (Sevenspotted Lady Beetle)  
Coccinella transversoguttata (Transverse lady beetle)  
Coccygomimus disparis  
Coeloides dendroctoni  
Coleomegilla quadrifasciata  
Coleophora klimeschiella (Russian Thistle Casebearer)  
Coleophora parthenica (Russian Thistle Stem Miner)  
Cupidosoma floridanum  
Cotesia flavipes  
Cotesia marginiventris  
Cotesia melanoscelus  
Cotesia plutellae (Diamondback Moth Parasite)  
Cotesia rubecula  
Cryptolaemus montrouzieri (Mealybug Ladybird, Australian Ladybird)  
Cybocephalus nipponicus  
Cycloneda ancoralis  
Cyphocleonus achates (Knapweed Root Weevil)  
Dacnusa sibirica  
Danaus plexippus (Monarch Butterfly)  
Delphastus pusillus  
Deraeocoris brevis  
Deraeocoris nebulosus  
Diachasmimorpha longicaudata (Longtailed Fruitfly Parasite)  
Diadegma insulare  
Diaeretiella rapae (Cabbage Aphid Parasite)

Diaparsis carinifer  
Dibrachoides dynastes  
Dicyphus hesperus  
Diglyphus isaea  
Encarsia deserti  
Encarsia formosa (Greenhouse Whitefly Parasite)  
Encarsia inaron  
Encarsia nr. Diaspidicola  
Eretmocerus californicus  
Eretmocerus eremicus  
Eretmocerus mundus  
Eriopis connexa  
Eupeodes nuda  
Exenterus amictorius  
Exeristes comstockii  
Feltiella acarisuga  
Galerucella californiensis (Loosestrife Leaf Beetle)  
Galerucella pusilla (Golden Loosestrife Beetle)  
Galleria mellonella (Wax moth or bee moth) (BPF)  
Geocoris punctipes (Big-Eyed Bug)  
Glypta fumiferana  
Glyptapanteles flavicoxis  
Glyptapanteles indiensis  
Goniozus legneri  
Harmonia axyridis (Asian Lady Beetle)  
Harmonia yedoensis  
Heraclides cresphontes (Giant Swallowtail Butterfly)  
Hippodamia convergens (Convergent Lady Beetle)  
Hippodamia tredecimpunctata (Spotted Amber Ladybird)  
Horogenes punctorius  
Hylobius transversovittatus (Root-Boring Weevil)  
Hyperaspis binotata  
Hyperaspis polita  
Hyposoter ebeninus  
Istocheta aldrichi  
Itopectis conquisitor  
Larinus minutus (Lesser Knapweed Flower Weevil)  
Larinus planus (Canada Thistle Bud Weevil)  
Leptomastidea abnormis  
Leptomastix dactylopii (Citrus Mealybug Parasite)  
Leucoptera spartifoliella (Broom Twigminer)  
Lindorus lophanthae (Purple Scale Predator)  
Lonchaea corticis  
Longitarsus jacobaeae (Ragwort Flea Beetle)  
Lydella thompsoni (= L. griseascens)  
Lydinolydella metallica  
Lysiphlebus testaceipes (Greenbugs Aphid)  
Macrocentrus ancyllivorus (Oriental Fruit Moth Parasite)  
Macrocentrus gifuensis  
Macrolophus caliginosus  
Mesoleius tenthredinis  
Metaphycus helvolus (Black Scale Parasite)  
Meteorus leviventris  
Meteorus pulchricornis  
Meteorus trachynotus  
Microctonus aethiopoides  
Microctonus colesi  
Microlarinus lareynii (Puncturevine Stem Weevil)  
Microlarinus lypriformis (Puncturevine Stem Weevil)  
Microterys flavus  
Microterys nietneri

Muscidifurax raptor (Raptor Fly Parasite)  
Muscidifurax raptorellus  
Muscidifurax zaraptor  
Nanophyes brevis  
Nanophyes marmoratus  
Nasonia vitripennis (Jewel Wasp)  
Nymphalis antiopa (Mourning Cloak Butterfly)  
Oberea erythrocephala (Leafy Spurge Stem Boring Beetle)  
Olesicampe benefactor  
Ooencyrtus kuvanae  
Ophyra aenescens (Black Garbage Fly)  
Orgilus obscurator  
Orius insidiosus (Insidious Flower Bug)  
Orius tristicolor (Minute Pirate Bug)  
Palexorista inconspicua  
Papilio polyxenes (Black Swallowtail Butterfly)  
Pediobius foveolatus (Bean Beetle Parasite)  
Peristenus digoneutis  
Phrydiuchus tau (Mediterranean Sage Root Crown Weevil)  
Podisus maculiventris (Spined Soldier Bug)  
Propylea quatuordecimpunctata (14-spot Ladybird Beetle)  
Rhinocyllus conicus (Thistle Seedhead Weevil)  
Rhyzobius lophanthae (Scale-Eating Ladybird)  
Rodolia cardinalis (Vedalia Beetle)  
Scolothrips sexmaculatus (Six-spotted Thrips)  
Scymnus frontalis  
Semiadalia undecimnotata  
Spalangia cameroni  
Spalangia corana  
Spalangia endius  
Spalangia nigroaenea  
Sphenoptera jugoslavica (Bronze Knapweed Root Borer)  
Spurgia esulae (Leafy Spurge Gall Midge)  
Tenodera aridifolia sinensis (Chinese Mantid)  
Tetrastichus incertus  
Tetrastichus julius  
Thanasimus dubius (Checkered Beetle)  
Thripobius semiluteus (Greenhouse Thrips Parasite)  
Tiphia popilliavora (Japanese Beetle parasitoid)  
Tiphia vernalis (Spring Tiphia)  
Trichogramma bactrae  
Trichogramma brassicae  
Trichogramma dendrolimi  
Trichogramma evanescens  
Trichogramma minutum (Minute Egg Parasite Wasp)  
Trichogramma platneri  
Trichogramma pretiosum  
Trichogrammatoidea bactrae  
Trichosirocalus horridus (Musk Thistle Rosette Weevil)  
Tyria jacobaeae (Cinnabar Moth)  
Urophora affinis (Banded Knapweed Gall Fly)  
Urophora cardui (Canada Thistle Stem Gall Fly)  
Urophora quadrifasciata (Knapweed Seedhead Fly)  
Urophora sirunaseva (Yellow Star Thistle Gall Fly)  
Vanessa atalanta (Red Admiral Butterfly)  
Vanessa cardui (Painted Lady Butterfly)  
Vanessa virginiensis (American Painted Lady Butterfly)  
Xylocoris flavipes (Warehouse Pirate Bug)  
Zeuxidiplosis giardi (St. John's Wort Midge)

Mites

Amblyseius barkeri

Amblyseius californicus  
Amblyseius cucumeris  
Amblyseius mckenziei  
Galendromus annectans  
Galendromus helveolus  
Galendromus occidentalis (Western Predatory Mite)  
Hypoaspis aculeifer  
Hypoaspis miles  
Iphiseius degenerans  
Mesoseiulus longipes (Longipes Mite)  
Metaseiulus occidentalis  
Neoseiulus barkeri  
Neoseiulus californicus (Californicus Mite)  
Neoseiulus cucumeris  
Neoseiulus fallacis (Fallacis Mite)  
Neoseiulus setulus  
Phytoseiulus macropilis  
Phytoseiulus persimilis (Chilean Predatory Mite)  
Pyemotes tritici (Straw Itch Mite, Fire Mite)  
Typhlodromus pyri

Mollusks

Deroceras laeve (Marsh Slug)  
Deroceras reticulatum (Grey Garden Slug)  
Mesodon thyroides (Whitelip Globe Snail)  
Neohelix albolabris (Whitelip Snail)  
Rumina decollata (Decollate Snail)

Nematodes

Heterorhabditis bacteriophora  
Heterorhabditis heliothedis  
Heterorhabditis megidis  
Neoplectana carpocapsae  
Neoplectana glaseri  
Steinernema carpocapsae (Mole Cricket Nematode)  
Steinernema feltiae  
Steinernema glaseri  
Steinernema riobravisi

Protozoa

Nosema locustae  
Vairimorpha necatrix

**3. History**

The commission approved Information Bulletin #44 on May 14, 2004. The bulletin became effective on July 1, 2004, with publication in the Indiana Register at 27 IR 3372. On November 14, 2006, the commission reviewed and affirmed this information bulletin without substantive changes.

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