**Wasmannia auropunctata**

**System:** Terrestrial

<table>
<thead>
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<th>Phylum</th>
<th>Class</th>
<th>Order</th>
<th>Family</th>
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<td>Arthropoda</td>
<td>Insecta</td>
<td>Hymenoptera</td>
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</table>

**Common name**

Rote Feuerameise (German), little fire ant (English), little introduced fire ant (English), little red fire ant (English), small fire ant (English), West Indian stinging ant (English), cocoa tree-ant (English, New Caledonia), pequena hormiga de fuego (Spanish), hormiga colorada (Spanish), hormiga roja (Spanish), formiga pixixica (Portuguese, Brazil), petit fourmi de feu (French), fourmi rouge (French), tsangonawenda (English, Gabon), sangunagenta (English, Gabon), satanica (Spanish, Cuba), hormiguilla (Spanish, Puerto Rico), albayalde (Spanish, Puerto Rico), formi électrique (French, New Caledonia), fourmi électrique (French, New Caledonia)

**Synonym**

- Tetramorium auropunctatum, (Roger 1863)
- Ochetomyrmex auropunctatum, (Forel 1886)
- Ochetomyrmex auropunctata
- Ochetomyrmex auropunctatus
- Xiphomyrmex atomum, (Santschi 1914)
- Wasmannia glabra, (Santschi 1931)
- Hercynia panamana, (Enzmann 1947)

**Similar species**

**Summary**

Wasmannia auropunctata (the little fire ant) is blamed for reducing species diversity, reducing overall abundance of flying and tree-dwelling insects, and eliminating arachnid populations. It is also known for its painful stings. On the Galapagos, it eats the hatchlings of tortoises and attacks the eyes and cloacae of the adult tortoises. It is considered to be perhaps the greatest ant species threat in the Pacific region.

[view this species on IUCN Red List](http://www.iucngisd.org/gisd/species.php?sc=58)
Species Description
Little fire ant (*Wasmannia auropunctata*) workers are monomorphic, which means they display no physical differentiation (Holway *et al.* 2002). The ants are typically small to medium-sized, with the workers ranging from 1-2mm (Holway *et al.* 2002). The little fire ant is light to golden brown in colour. The gaster is often darker. The pedicel, between the thorax and gaster, has two segments; the petiole and postpetiole. The petiole is "hatchet-like," with a node that is almost rectangular in profile and higher than the postpetiole. The antenna have 11 segments, with the last two segments greatly enlarged into a distinct club. The antennal scape (the first segment) is received into a distinct groove (scrobe) that extends almost to the posterior border of the head. The thorax has long and sharp epinotal spines. The body is sparsely covered with long, erect hairs. This species is well-known for a painful sting, seemingly out of proportion to its size. Please click on AntWeb: *Wasmannia auropunctata* for more images and assistance with identification. The AntWeb image comparison tool lets you compare images of ants at the subfamily, genus, species or specimen level. You may also specify which types of images you would like to compare: head, profile, dorsal, or label. Please see the PaDIL (Pests and Diseases Image Library) species content page for Electric ant for high quality diagnostic and overview images. Please follow this link for a fully illustrated Lucid key to common invasive ants [Hymenoptera: Formicidae] of the Pacific Island region [requires the most recent version of Java installed]. The factsheet on *Wasmannia auropunctata* contains an overview, diagnostic features, comparison charts, images, nomenclature and links. (Sarnat, 2008)

Notes
Bruneau de Miré (1969) reported *W. auropunctata* from the coastal region of Cameroon near Kribi, where cacao (*Theobroma cacao*) growers purposely transported *W. auropunctata* colonies from plantation to plantation as a biological control agent of certain insect pests, particularly Miridae (Hemiptera). (Bruneau de Miré 1969). In areas with *W. auropunctata*, populations of most insects, including beetles, flies, and other ants, were reduced. In contrast, populations of plant-feeding bugs (Homoptera) that the ants tend, such coccids and psyllids, increased (Bruneau de Miré, 1969 in Wetterer & Porter, 2003). Similarly MacFalane (1985 in Way & Bolton 1997) considered *W. auropunctata* useful as a natural enemy of crop pests in Solomon Islands (Wetterer & Porter, 2003).
Habitat Description
Invasive ants will usually readily invade disturbed habitats, such as forest edges or agricultural fields (Ness and Bronstein 2004). In natural environments the little fire ant (*Wasmannia auropunctata*) efficiently exploits twigs, leaf litter and for its nesting substrate, while in houses it may infest beds, furniture and food (Smith 1965, in Brooks and Nickerson 2000; Armbrecht and Ulloa-Chacón 2003). In some regions, nests are frequently found behind the sheaths of palms or palmettos. During heavy rains, nests may be moved into buildings or trees to escape flooding (Hedges 1998, in Brooks and Nickerson 2000). Cold climates appear to be unsuitable for the successful invasion and establishment of *W. auropunctata* in native ecosystems. However, it may survive in human habitations or infrastructures including climate-controlled buildings and greenhouses. For example, *W. auropunctata* is a greenhouse pest in temperate regions, such as England and Canada. Although local spread is restricted in such cases, the population may act as a “stepping stone” for the colonisation of more suitable locations (*via* long distance spread) (McGlynn 1999; Holway et al. 2002; J. K. Wetterer pers. comm., 2003).

Nutrition
Invasive ants typically have a generalised feeding regime and are able to gain nutrition from a variety of sources including grains, seeds, arthropods, decaying matter and vegetation (Holway et al. 2002; Ness and Bronstein 2004). Specialised feeders, such as army ants, which prey on other social insects, are less likely than the little fire ant (*Wasmannia auropunctata*) to be successful in introduced regions as the range of potential prey is smaller (McGlynn 1999). Little fire ants are omnivores and are very flexible in their diet, preying on invertebrates and consuming plant parts (Romanski 2001). When honeydew-producing Homoptera are present, a large part of its diet is likely to consist of the carbohydrate-rich residues produced by these insects (J. K. Wetterer pers. comm., 2003). In human habitations, nutrition may be gained from fats (such as peanut butter) and other oily materials found in homes (Fernald 1947, in Brooks and Nickerson 2000). The little fire ant has a venomous sting that gives it a greater ability to subdue vertebrate and large invertebrate prey (Holway et al. 2002).
General Impacts

Environmental stresses (such as those caused by human practices, such as monoculture) may cause explosions of some ant populations, an effect that is particularly evident within ants’ native ranges. For example, in its native range in South America, the little fire ant *Wasmannia auropunctata* is a pest in disturbed forests and agricultural areas where it can reach high densities. High densities of *W. auropunctata* have been linked with sugar cane monocultures and cocoa farms in Colombia and Brazil, respectively. In Colombia, a high abundance of the little fire ant in forest fragments has been linked with low ant diversity. The little fire ant efficiently exploits resources including nectar, refuges within vegetation and honeydew residues (of Homopteran insects), and it may out-compete and displace native myrmecofauna (Armbrecht and Ulloa-Chacón 2003). Improved land management and a reduction of primary production will alleviate the problems associated with invasive ants and the environmental stresses that cause ant population explosions.

In agricultural areas, due to the close association of the land and workers, the little fire ant may be a great nuisance to humans. This is because it is more likely to reach high densities and sting people working in the field. The increased numbers of Homoptera insects, which sap plant nutrients and make plants susceptible to disease, may cause substantial yield losses. In Cameroon, on the other hand, the spread of the little fire ant is encouraged, due to the fact that it preys on, and thereby has a role in the control of, certain herbivorous cocoa pests (Bruneau de Mire 1969, in Brooks and Nickerson 2000).

*W. auropunctata* may have negative impacts on invertebrates and vertebrates. They may prey on native insects and cause declines in the numbers of small vertebrates. In human habitations it may sting, and even blind, domestic pets (cats and dogs) (Romanski 2001). It is believed to have caused a decrease in reptile populations in New Caledonia and in the Galapagos Archipelago, where it eats tortoise hatchlings and attacks the eyes and cloacae of the adult tortoises (Holway et al. 2002; J. K. Wetterer pers. comm., 2003). The little fire ant is probably the most aggressive species that has been introduced into the Galapagos archipelago, where a marked reduction of scorpions, spiders and native ant species in infested areas has been observed (Lubin 1984, Clark et al. 1982, in Roque-Albelo and Causton 1999). Similarly it has been noted to decrease local arthropod biodiversity in the Solomon Islands (Romanski 2001).

*W. auropunctata* rarely buries myrmecochorous seeds and sometimes ingests elaisomes without dispersing seed. In its native range, the little fire ant decreases herbivorous arthropod biodiversity, increasing the fruit and seed production and growth of the plant and decreasing pathogen attacks. *W. auropunctata* may also, however, exclude arthropod plant mutualists, such as plant tenders or seed dispersers (Ness and Bronstein 2004).

Please read Invasive ants impacts for a summary of the general impacts of invasive ants, such as their affect on mutualistic relations, the competitive pressure they impose on native ants and the effect they may have on vulnerable ecosystems.
Management Info

Preventative measures: The Pacific Ant Prevention Programme is a proposal prepared for the Pacific Plant Protection Organisation and Regional Technical Meeting For Plant Protection. This plan aims to prevent the red imported fire ant and other invasive ant species with economic, environmental and/or social impacts, entering and establishing in or spreading between (or within) countries of the Pacific Region.

A detailed pest risk assessment for the eight species ranked as having the highest potential risk to New Zealand was prepared as part of 'The invasive ant risk assessment project', Harris et al., 2005., for Biosecurity New Zealand by Landcare Research. The Invasive ant risk assessment for Wasmannia auropunctata can be viewed at Wasmannia auropunctata risk assessment. Please see Wasmannia auropunctata information sheet for more information on biology, distribution, pest status and control technologies.

Integrated management: The potential of invasive ants to reach high densities is greater in ecosystems which have been utilised or modified by humans. For example the little fire ant is a greater problem in forests and habitats in its native range in South America that have been over-exploited by humans (Armbrecht and Ulloa-Chacón 2003). In south Colombia and Brazil, respectively, sugarcane monocultures and cocoa farms have been linked with high abundances of the little fire ant. Similarly, the Argentine ant (Linepithema humile) reaches locally high densities in agricultural systems, particularly citrus orchards, which host honey-dew producing Homoptera (Armbrecht and Ulloa-Chacón 2003; Holway et al. 2002). This implies that improved land management (including improving land use efficiency and reducing the practice of monoculture) and a reduction in primary production would reduce numbers of invasive ants, alleviate the problems associated with high densities of invasive ants and reduce the potential sources from new infestations.

Chemical: Eradication programmes are expected to be more successful on small islands or in isolated areas where distributions are less than a few dozen hectares. In the Galapagos Archipelago, it may be impossible to eradicate W. auropunctata from the large islands where it is established. However it has been successfully eradicated from Santa Fe and has the potential to be eradicated from other small islands such as Marchena. The control of the little fire ant on these islands has been by non-selective ant poisons, fire, or by clearing vegetation (Roque-Albelo and Causton 1999, Roque-Albelo and Causton 1999).

Please follow this link for more detailed information on the management of Wasmannia auropunctata compiled by the ISSG.
Pathway
Used as a biological control agent on plantations in Gabon and Cameroon (Bruneau de Mire 1969, in Brooks and Nickerson 2000). *W. auropunctata* was likely to have been transported between the large islands in the Galapagos archipelago on plants and in soil, and between the small islands on camping provisions and equipment (Roque-Albelo and Causton 1999). Growing military and commercial activity may have facilitated the increased spread of ants into the Pacific region over the last century. Commerce to and from islands must be watched more closely than exchanges between two continental areas because ants are more abundant on islands and are more likely to establish on new islands (due to higher ecological vulnerability of island ecosystems) (McGlynn 1999). Invasive ant species that are known to associate closely with humans and nest in nursery stock or other products traded locally or globally have the potential to be spread long distances by humans (Holway *et al.* 2002). Little fire ants are commonly associated with and distributed by humans. Nurseries, fruit tree orchards, and ornamental plants are all potential habitat for the LFA. Since these ants have an affinity for nesting at tree bases and in potted plants, they are especially easily spread between plant nurseries. When contaminated plants are purchased and planted, the ants may become locally established (Romanski 2001). May be spread by the movement of logs and lumber products infested with the ant. It may be spread within the Solomon Islands by the movement of coconuts. May be spread by the movement of logs and lumber products infested with the ant. It may be spread within the Solomon Islands by the movement of coconuts. *W. auropunctata* was likely to have been transported between the large islands in the Galapagos archipelago on plants and in soil, and between the small islands on camping provisions and equipment (Roque-Albelo and Causton 1999). May be spread by the movement of logs and lumber products infested with the ant. It may be spread within the Solomon Islands by the movement of coconuts. In Cameroon the spread of the little fire ant in cocoa plantations is encouraged due to the fact that it preys on, and thereby has a role in the control of, certain herbivorous cocoa pests (Bruneau de Mire 1969, in Brooks and Nickerson 2000).

Principal source:

**Compiler:** Dr. James K. Wetterer, Honors College, Florida Atlantic University, Jupiter, USA & IUCN/SSC Invasive Species Specialist Group (ISSG)

**Publication date:** 2009-10-31

**ALIEN RANGE**

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[1] CAMEROON
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[1] COSTA RICA
[4] ECUADOR
[1] FIJI
[1] FRENCH POLYNESIA
[1] GABON
[1] GUAM
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[4] NEW CALEDONIA
Red List assessed species 98: CR = 32; EN = 20; VU = 15; NT = 10; DD = 7; LC = 14;

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[1] UNITED KINGDOM
[4] VANUATU

[1] PAPUA NEW GUINEA
[1] TUVALU
[14] UNITED STATES
[2] WALLIS AND FUTUNA
FULL ACCOUNT FOR: *Wasmannia auropunctata*

**BIBLIOGRAPHY**

68 references found for *Wasmannia auropunctata*

**Management information**


AntWeb, 2006. *Wasmannia auropunctata*

**Summary:** AntWeb illustrates ant diversity by providing information and high quality color images of many of the approximately 10,000 known species of ants. AntWeb currently focuses on the species of the Nearctic and Malagasy biogeographic regions, and the ant genera of the world. Over time, the site is expected to grow to describe every species of ant known. AntWeb provides the following tools: Search tools, Regional Lists, In-depth information, Ant Image comparison tool PDF field guides maps on AntWeb and Google Earth and Ant genera of the world slide show. AntWeb is available from: http://antweb.org/about.jsp [Accessed 20 April 2006]

The species page is available from: http://antweb.org/getComparison.do?rank=species&genus=wasmannia&name=auropunctata&project=&project= [Accessed 2 May 2006]


**Summary:** Available from: http://www.fcla.edu/FlaEnt/fe88p159.pdf [Accessed 21 October 2008]


**Summary:** This plan establishes a national framework to guide and coordinate Australia’s response to tramp ants, identifying the research, management, and other actions necessary to ensure the long-term survival of native species and ecological communities affected by tramp ants. It identifies six national priority species as an initial, but flexible, list on which to focus attention. They are the red imported fire ant (*Solenopsis invicta*), tropical fire ant (*S. geminata*), little fire ant (*Wasmannia auropunctata*), African big-headed ant (*Pheidole megacephala*), yellow crazy ant (*Anoplolepis gracilipes*), and Argentine ant (*Linepithema humile*).


Commonwealth of Australia. 2006b. Background document for the threat abatement plan to reduce the impacts of tramp ants on biodiversity in Australia and its territories, Department of the Environment and Heritage, Canberra.

**Summary:** This background document to the Threat abatement plan to reduce the impacts of tramp ants on biodiversity in Australia and its territories provides supporting information on a range of issues such as tramp ant biology, population dynamics, spread, biodiversity impacts and management measures.


Department of Primary Industries and Fisheries (DP&F) 2006. *The Electric Ant (Wasmannia auropunctata) in Queensland*


Department of Primary Industries and Fisheries (DP&F) 2006. *The Electric Ant (Wasmannia auropunctata) in Queensland*


Fourmi de feu a Tahiti (in French)

**Summary:** Webpage created to centralise information on the *Wasmannia auropunctata* invasion in Tahiti. Contains an assessment of the situation, images, maps, scientific documents, links and contacts.
FULL ACCOUNT FOR: *Wasmannia auropunctata*

**Summary:** The invasive ant risk assessment project, prepared for Biosecurity New Zealand by Landcare Research, synthesises information on the ant species that occur in New Zealand (native and introduced species), and on invasive ants that pose a potential threat to New Zealand.

There is a great deal of information in this risk assessment on invasive ant species that is of global interest, including; biology, distribution, pest status, control technologies.

The assessment project has five sections: 1) The Ants of New Zealand: information sheets on all native and introduced ants established in New Zealand 2) Preliminary invasive ant risk assessment: risk scorecard to quantify the threat to New Zealand of 75 ant species. 3) Information sheets on invasive ant threats: information sheets on all ant species scored as medium to high risk (n = 39). 4) Pest risk assessment: A detailed pest risk assessment for the eight species ranked as having the highest potential risk to New Zealand (*Anoplolepis gracilipes*, *Lasius neglectus*, *Monomorium destructor*, *Paratrechina longicornis*, *Solenopsis geminata*, *Solenopsis richteri*, *Tapinoma melanocephalum*, *Wasmannia auropunctata*) 5) Ranking of high risk species: ranking of the eight highest risk ant species in terms of the risks of entry, establishment, spread, and detrimental consequences.

NB. The red imported fire ant (*Solenopsis invicta*) is considered to be the worst pest in the world. However, *Solenopsis invicta* was specifically excluded from consideration in this risk assessment as this species has already been subject to detailed consideration by Biosecurity New Zealand

*This invasive ant pest risk assessment was funded by Biosecurity New Zealand and Foundation for Research, Science and Technology. Undertaken by Landcare Research in collaboration with Victoria University of Wellington and Otago Museum*


ISSG, compilation of email correspondence with Simon O Connor, Jean-Yves Meyer and Eric Loeve in November 2005


Meyer, J.-Y and Jourdan, H. Undated. *Little Fire Ant in Tahiti and Miconia in New Caledonia: French connection to tackle new invasions in South Pacific Islands*


**Summary:** Discusses over a dozen of the worst arthropod pests in the South Pacific, with particular emphasis on ants and their control and management.

Pacific Ant Prevention Programme, March 2004. *Pacific Invasive Ant Group (PIAG) on behalf of the IUCN/SSC Invasive Species Specialist Group (ISSG).*

**Summary:** A proposal prepared for the Pacific Plant Protection Organisation and Regional Technical Meeting For Plant Protection. This plan aims to prevent the red imported fire ant and other invasive ant species with economic, environmental and/or social impacts, entering and establishing in or spreading between (or within) countries of the Pacific Region.

FULL ACCOUNT FOR: Wasmannia auropunctata

Summary: PIAnKey (Pacific Invasive Ant key) is an electronic guide designed to assist users identify invasive ant species commonly encountered in the Pacific Island region. The guide covers four subfamilies, 20 genera and 44 species. The primary tool offered by PIAnKey is an interactive key designed using Lucid3 software. In addition to being fully illustrated, the Lucid key allows users to enter at multiple character points, skip unknown characters, and find the most efficient path for identifying the available taxa. Each species is linked to its own web page. These species pages, or factsheets, are linked to an illustrated glossary of morphological terms, and include the following seven sections: 1) Overview of the species; 2) Diagnostic chart illustrating a unique combination of identification characters; 3) Comparison chart illustrating differences among species of similar appearance; 4) Video clip of the species behavior at food baits (where available); 5) Image gallery that includes original specimen images and live images (where available); 6) Nomenclature section detailing the taxonomic history of the species, and 7) Links and references section for additional literature and online resources.


Summary: PaDIL (Pests and Diseases Image Library) is a Commonwealth Government initiative, developed and built by Museum Victoria’s Online Publishing Team, with support provided by DAFF (Department of Agriculture, Fisheries and Forestry) and PHA (Plant Health Australia), a non-profit public company. Project partners also include Museum Victoria, the Western Australian Department of Agriculture and the Queensland University of Technology. The aim of the project is: 1) Production of high quality images showing primarily exotic targeted organisms of plant health concern to Australia. 2) Assist with plant health diagnostics in all areas, from initial to high level. 3) Capacity building for diagnostics in plant health, including linkage developments between training and research organisations. 4) Create and use educational tools for training undergraduates/postgraduates. 5) Engender public awareness about plant health concerns in Australia. PaDIL is available from: http://www.padil.gov.au/aboutOverview.aspx, this page is available from: http://www.padil.gov.au/viewPestDiagnosticImages.aspx?id=623 [Accessed 6 October 2006]


Summary: Compiled tables of the distribution and importance of invertebrate pests.

General information


Summary: A report on the significant correlation between the abundance of W. auropunctata and low native ant biodiversity in fragmented Colombian forests.


Summary: Abstract: The author drew attention to the fact that in order to keep their plantations healthy the Boulous of Kribi area in Cameroun made use of an ant that had most probably been imported: Wasmannia auropunctata Roger. These ants were carried from one plantation to another in basket traps made of bundles of raphia leaflets and containing sugar cane or palm nut parings as bait which had been left in contact with the ants for at least three days. A trial showed that in less than ten days after being deposited these traps contained both larvae and immature adults of Wasmannia auropunctata. Knock-down counts from cacao trees in the Kribi region showed that this ant has driven away the mirids and Creomatogaster ants and has reduced the number of insects generally, especially the Hemiptera, Orthoptera and Coleoptera. On the other hand, it contributed to the presence of psyllids and coccids of the genus Saisseria. Clark, D. B., Guayasamin, C., Pazmino, O., Donoso, C. and Paez de Villacis, Y. 1982. The tram ant Wasmannia auropunctata: Autoecology and effects on ant diversity and distribution on Santa Cruz Island, Galapagos. Biotropica 14(3): 196-207.


Summary: Diagnostic insect damage to cocoa tree leaves and fruits were compared in situations with and without the presence of the little fire ants. Wasmannia auropunctata and the closely related and sympatric W. cf rochai. No significant differences in thrips, lepidopteran, or chrysomelid beetle damage to fruits, or to young and old leaves, were associated with these ants. However, significant increases of pseudococcids Planococcus citrii, associated with areas dominated by W. auropunctata, and to a lesser degree with W. cf rochai, were present. W. auropunctata has been reported to be a canopy mosaic dominant in cocoa farms, but the lack of reduced herbivore incidences and its lack of spatial permanence do not support favoring its populations for the management of phytophagous insect control.


Summary: More than 50 species of exotic ants have established breeding populations in Florida. This is the largest exotic ant fauna of any U.S. state. An annotated list of species (including distribution, origin, and pest status) includes 4 new records for the U.S.


Summary: Faunal composition and community structure of canopy arthropods was analyzed from insecticidal fogging samples in 3 types of New Caledonian forests: dense evergreen forest on ultramafic alluvium (Riviere Bleue), sclerophyllous forest on limestone and cong.


ITIS (Integrated Taxonomic Information System), 2005. Online Database Wasmannia auropunctata

Summary: An online database that provides taxonomic information, common names, synonyms and geographical jurisdiction of a species. In addition links are provided to retrieve biological records and collection information from the Global Biodiversity Information Facility (GBIF) Data Portal and bioscience articles from BioOne journals.

Available from:


Summary: I compare the sizes of non-native and native ants to evaluate how worker size may be related to the ability of a species to invade new habitats. I compare the size of 78 non-native ant species belonging to 26 genera with the size of native congeneric species.


Summary: Available from:


