

Aethina tumida (Small Hive Beetle) outbreaks in southern Italy

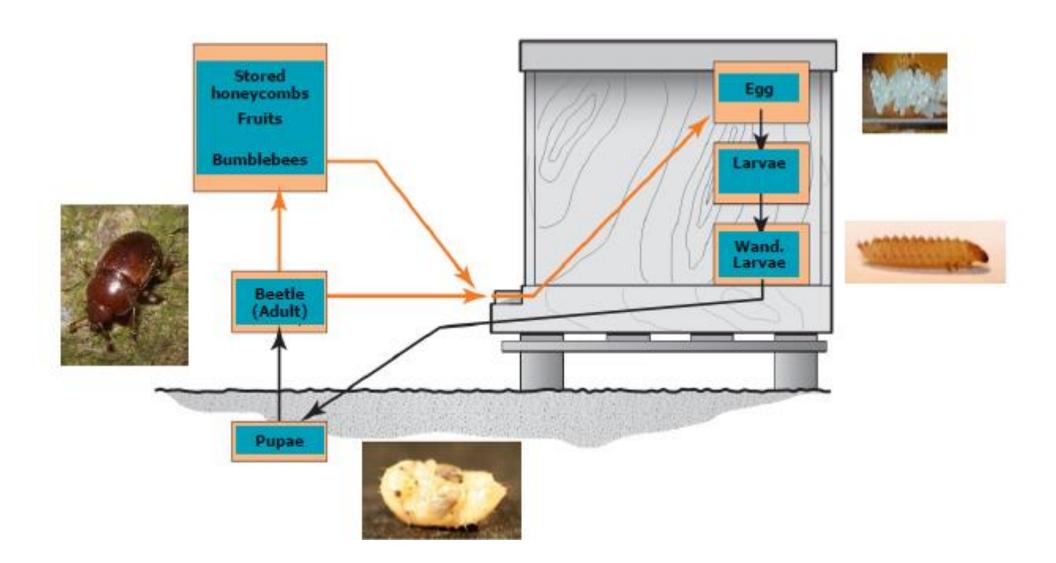
National Reference Laboratory for beekeeping

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PAFF Standing Committee

Life cycle: 27-79 days





Calabria region

5/09/2014:

First identification of both larvae and adults

Locality: Sovereto

Municipality: Gioia Tauro

Province: Reggio Calabria



2 zones defined:

Protection - 20 km radius

Surveillance - 100 km radius



Aethina tumida outbreaks as of 10 November 2014

N.	LOCALITY	MUNICIPALITY	PROVINCE	REGION	EGGS	LARVAE	PUPAE	ADULTS	Note	CONFIRMATION DATE
01_2014	SOVERETO	GIOIA TAURO	RC	CALABRIA		X		X		September 12, 2014
02_2014	C.DA COLUNA	ROSARNO	RC	CALABRIA				x		September 18, 2014
03_2014	C.DA CICERNA	GIOLA TAURO	RC	CALABRIA				x		September 25, 2014
04_2014	C.DA ALIMASTRO	ROSARNO	RC	CALABRIA				x		September 25, 2014
05_2014	C.DA ALIMASTRO	ROSARNO	RC	CALABRIA				X		September 29, 2014
06_2014	C.DA TESTA DELL'ACQUA	ROSARNO	RIC	CALABRIA				x		September 29, 2014
07_2014	C.DA TESTA DELL'ACQUA	ROSARNO	RIC	CALABRIA				x		September 29, 2014
08_2014	C.DA LUDICELLO	SAN FERDINANDO	RC	CALABRIA				X		September 29, 2014
09_2014	C.DA ALIMASTRO	ROSARNO	RC	CALABRIA				x		September 29, 2014
10_2014	C.DA PRAIA	SAN FERDINANDO	RIC	CALABRIA				x		September 30, 2014
11_2014	C.DA BETTINA	RIZZICONI	RC	CALABRIA				x		September 30, 2014
12_2014	C.DA BOSCO SELVAGGIO	RIZZICONI	RC	CALABRIA		x		x		September 30, 2014
13_2014	C.DA ACQUE BIANCHE	ROSARNO	RC	CALABRIA				x		September 30, 2014
14_2014	C.DA CICERNA	GIOLA TAURO	RC	CALABRIA		x	X	x		October 1, 2014
15_2014	C.DA MAROTTA	RIZZICONI	RC	CALABRIA				x		October 1, 2014
16_2014	C.DA PADRIPODI	GIOLA TAURO	RC	CALABRIA				x		October 1, 2014
17_2014	C.DA SOVERETO	CANDIDONI	RC	CALABRIA				x		October 3, 2014
18_2014	VIA MONGIARI	ROSARNO	RC	CALABRIA				X		October 3, 2014
19_2014	C.DA PRAIA - CORSO GARIBALDI	SAN FERDINANDO	RC	CALABRIA				×		October 10, 2014
20_2014	C.DA BOSCO DOMITINI	SAN FERDINANDO	RC	CALABRIA				x		October 10, 2014
21_2014	C.DA PRAIA	SAN FERDINANDO	RC	CALABRIA				X		October 10, 2014
22_2014	C.DA SCEBBA	SAN FERDINANDO	RC	CALABRIA				x		October 10, 2014
23_2014	C.DA SAN BASILE	FEROLETO DELLA CHIESA	RC	CALABRIA				x		October 10, 2014
24_2014	SERSALE	NICOTERA	w	CALABRIA				x		October 10, 2014
25_2014	C.DA SOVERETO	CANDIDONI	RC	CALABRIA				x		October 13, 2014
26_2014	C.DA PIAN DELLE VIGNE	ROSARNO	RC	CALABRIA				x		October 13, 2014
27_2014	C.DA BADIA	SAN FERDINANDO	RC	CALABRIA				x		October 13, 2014
28_2014	C.DA CAFILIS	TAURIANOVA	RC	CALABRIA				X		October 13, 2014
29_2014	C.DA POLLA	MELICUCCO	RC	CALABRIA				X		October 13, 2014
30_2014	C.DA GUARDIOLA	GIOIA TAURO	RC	CALABRIA				X	(natural swarm)	October 13, 2014
31_2014	SOVERETO	GIOIA TAURO	RC	CALABRIA				X		October 13, 2014
32_2014	C.DA GIAMBRA	GIOIA TAURO	RC	CALABRIA				X		October 14, 2014
33_2014	C.DA CORDOPATRI	GIOIA TAURO	RC	CALABRIA				X		October 14, 2014

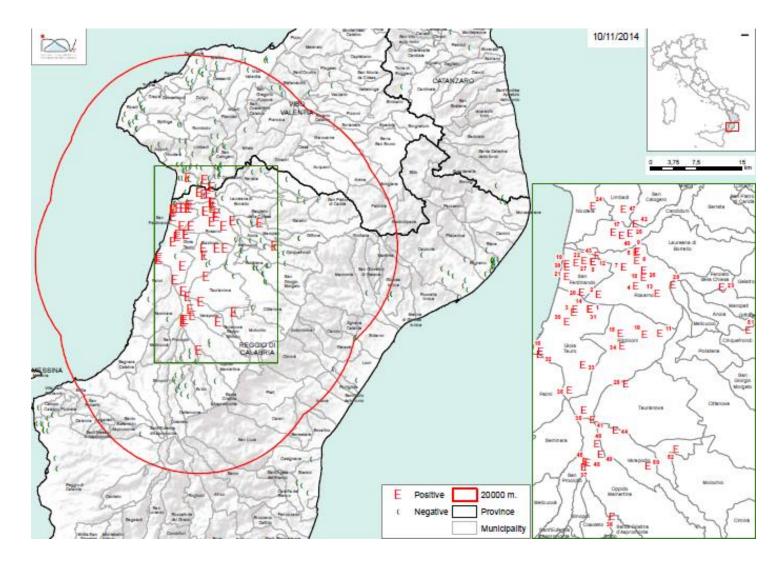


Aethina tumida outbreaks as of 10 November 2014

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34_2014	C.DA SPINA	RIZZICONI	RC	CALABRIA				X		October 14, 2014
35_2014	C.DA PONTE VECCHIO	GIOIA TAURO	RC	CALABRIA				X		October 14, 2014
36_2014	CARUSO	SANTA CRISTINA D'ASPROMONTE	RC	CALABRIA				X		October 15, 2014
37_2014	C.DA FERRARO	OPPIDO MAMERTINA	RC	CALABRIA				x		October 15, 2014
38_2014	C.DA FORESTA	RIZZICONI	RC	CALABRIA				X		October 15, 2014
39_2014	C.DA GARIBALDI	SAN FERDINANDO	RC	CALABRIA				X		October 15, 2014
40_2014	C.D.A. BARONIA	CANDIDONI	RC	CALABRIA		x		×		October 16, 2014
41_2014	PONTE QUARANTANA	RIZZICONI	RC	CALABRIA				X		October 16, 2014
42_2014	C.DA BARONIA MANNELLA	SAN CALOGERO	W	CALABRIA				X		October 17, 2014
43_2014	C.DA CARAD	ROSARNO	RC	CALABRIA				x		October 20, 2014
44_2014	C.DA PETROSA	TAURIANOVA	RC	CALABRIA				X		October 20, 2014
45_2014	C.DA BUFALO	OPPIDO MAMERTINA	RC	CALABRIA				×		October 20, 2014
46_2014	C.DA PATINANSERI	OPPIDO MAMERTINA	RC	CALABRIA				X		October 20, 2014
47_2014	FEUDO	LIMBADI	w	CALABRIA				X		October 20, 2014
48_2014	C.D.A CAVALIERE	OPPIDO MAMERTINA	RC	CALABRIA				X		October 22, 2014
49_2014	C.DA FERRANDINA	OPPIDO MAMERTINA	RC	CALABRIA				X		October 24, 2014
50_2014	C.DA PAPAZZO	VAROPODIO	RC	CALABRIA				X		October 31, 2014
51_2014	C.DA BUSALE	CINQUEFRONDI	RC	CALABRIA				X		October 31, 2014
52_2014	C.DA SCROFORIO	TERRANOVA SAPPO MINULIO	RC	CALABRIA				X		November 04, 2014
53_2014	C.DA SPARTO	MELILLI	SR	SICILIA				X		November 07, 2014



Aethina tumida outbreaks as of 10 November 2014 - Calabria region





Measures adopted in Sicily following the outbreak in Calabria region

- visit of all apiaries selected on the basis of risk analysis (migration from infested areas of Calabria of honeybees)
- Colonies of traced apiaries were checked according to 2% expected prevalence
- destruction in case of infested apiaries
- if negative, traps should be applied
- traceability of commercial and migratory movement in and out of the zone



Aethina tumida outbreaks as of 10 November 2014 – Sicily region

7 November 2014:

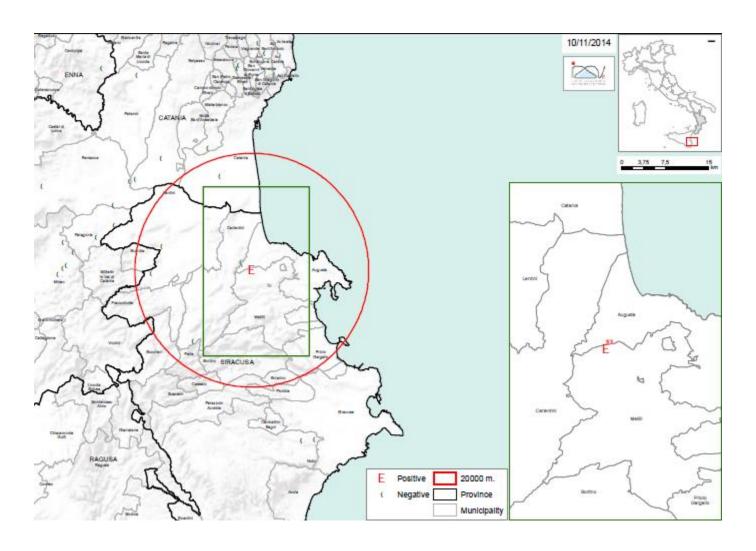
First report of *Aethina*tumida in Sicily – 1 adult in
one beehive

Municipality: Melilli

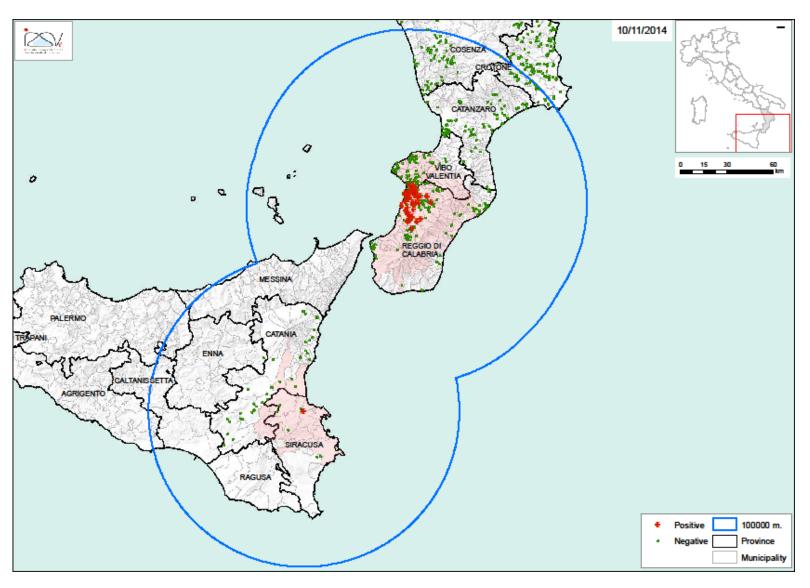
Province: Siracusa

2014

Migratory apiary composed of 56 beehives, in the area of Gioia Tauro (RC) from April to August



Aethina tumida outbreaks as of 10 November 2014





Aethina tumida – Ministry of Health orders adopted

0018842-P-12/09/2014: first detection in Calabria

0019258-19/09/2014-DGSAF-COD_UO-P: second outbreak, EU RL confirmation

0020069-01/10/2014-DGSAF-COD_UO-P: surveillance in not infested regions

0020298-03/10/2014-DGSAF-COD_UO-P: update on outbreaks

0023341-P-07/11/2014-DGSAF: first detection in Sicily

Information available at:



Measures adopted in Sicily

- Immediate notification of Aethina tumida
- Destruction of infested apiary (Melilli SR)
- Restriction of any movement related to honey bee colonies (OUT) from Sicily region
- Epidemiological investigation from the first case
- In the area where the first case was confirmed the following measures are applied:

In 10 km protection zone:

- Census and seizure of apiaries and colonies
- visit of apiaries (with 5% prevalence 95% confidence)
- Each apiary shall undergo to clinical examination of the colonies according to 2% expected prevalence 95% confidence)
- if negative, traps should be applied
- traceability of commercial and migratory movement in and out of the zone

Measures in preparation by the Authority

 A Decree is in preparation to define a national surveillance programme for Aethina tumida:

- visit of apiaries selected on the basis of risk analysis (migration in infested areas, honeybees or materials exchanges)
- visit of the colonies according to 2% expected prevalence
- destruction of infested apiaries
- if negative, traps should be applied
- traceability of commercial and migratory movement IN and OUT of the zone
- compensation for destroyed apiaries





Thank you for your attention