

The Red imported fire ant, *Solenopsis invicta* Buren (Hymenoptera: Formicidae: Myrmicinae) discovered in Busan sea port, Korea

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한국에서 *Solenopsis invicta* (벌목, 개미과)의 발견 보고

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ABSTRACT: The red imported fire ant, *Solenopsis invicta* Buren, 1972 (Hymenoptera: Formicidae: Myrmicinae) was discovered in Busan sea port, Korea. Only one colony was found and then removed rapidly by Animal and Plant Quarantine Agency.

Key words: Hymenoptera, Formicidae, Myrmicinae, *Solenopsis invicta*, Korea

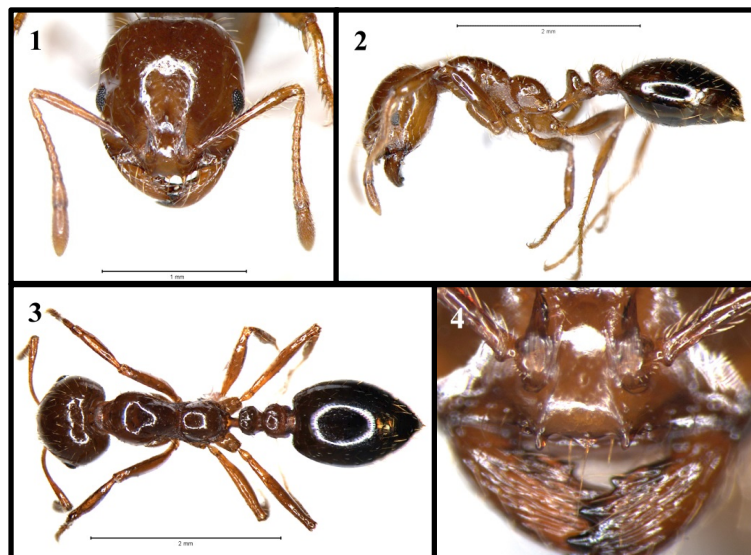
조 록: 벌목 개미과 두마디개미아과(Hymenoptera: Formicidae: Myrmicinae)의 *Solenopsis invicta* Buren, 1972가 국내 부산항에서 처음 발견되어 농림축산검역본부에 의해 신속하게 제거되었다.

검색어: 벌목, 개미과, 두마디개미아과, *Solenopsis invicta*, 한국

A colony of Red Imported Fire Ant (RIFA), *Solenopsis invicta* which is one of quarantine pests in Korea was discovered by plant quarantine inspectors in Gamman pier, Busan, Korea on 8th September 2017. It was located in the

cracks on the container yard covered with ascon. After collection of ant specimens, they were identified into *Solenopsis invicta* by authors on the day.

The next day, several specialists including authors surveyed



Figs. 1-4. Worker of *Solenopsis invicta* Buren. 1, Frontal aspect; 2, Lateral aspect; 3, Dorsal aspect; 4, Central clypeal tooth.

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the area of Gamman container yard and confirmed only single colony was there. After surveillance, Animal and Plant Quarantine Agency (APQA) treated pesticide (Deltamethrin) on the area of radius 100m from the colony for control of its spread. After then, APQA dug the container yard with forklift and removed RIFA colony followed by spraying the pesticides sufficiently on the soil containing RIFA colony again for the eradication on 2nd October 2017.

After eradication treatment, APQA monitored RIFA using bait traps during 50days but more RIFA was not found there. Consequently, it was considered that RIFA colony could be removed in Gamman pier Busan.

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