Country Report

Republic of Korea

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Pest management

❍ Under eradication of *Erwinia amylovora* (Fire blight, Ea)

- Ea has been designated as one of the prohibited pests in Korea. Since the first outbreak of the Ea in 2015, the infected host plants have been found every year in a limited region. The Ea eradication program has been implemented continuously based on the result of detailed surveys of the infected areas and the surrounding areas. The orchards which were confirmed to have infected trees were destroyed. APQA has enhanced education on growers about the symptoms of Ea that occur in infected trees during the winter and conducted additional surveillance on export areas located near the occurrence area. Pear is one of the major crops in Korea and the most important exporting agricultural product in Korea. Therefore, Korean government makes best efforts to implement eradication program on Ea not only in the infected areas but also surrounding areas so that Ea will not be established in Korea.

❍ Detection and control for *Solenopsis invicta* (Red imported fire ant, RIFA)

- RIFA is one of the notorious invasive ants and has been nominated in the 100 World′s Worst Invaders list compiled by the Invasive Species Specialist Group (ISSG, 2014). Invasive ants are also selected in surveillance implementation pilot in IPPC. Since it was firstly found in Busan sea port of Korea in September 2017, more cases have been reported from different regions, in particular, inside containers and container yards in major ports such as Incheon, Pyeongtaek, Gwangyang, etc. RIFA was eradicated by spraying and disinfection according to the survey and control manual.

  In Korea, it has been designated as one of the quarantine pests. To prevent introduction of the RIFA into Korea through sea containers and imported agricultural products from other countries, APQA conducted necessary activities – such as monitoring program at the point of entries.

  * *Solenopsis invicta* : (2017) 1 times → (2018) 7 → (2019.) 2 → (2020) 1 → (2021) 3

❍ **Preventive measures for *Spodoptera frugiperda* (Fall Armyworm, FAW)**

- FAW is a quarantine pest of Korea which is found in about 40ha of 43cities and districts in Korea in 2021.

  * *Spodoptera frugiperda* : (2020) 39cities and districts 71ha → (2021) 43, 40ha

- FAW is unlikely to be established in Korea because of low temperature in winter, however it is migrated repetitively by westward wind flow. APQA is strengthening border quarantine and installing traps and aerial net, intensifying surveillance on main host plant fields and implementing pest control during early growth stage to minimize the damage.