Pest Report (IPPC Portal)

◦ Title : Report of outbreak of *Erwinia amylovora* in Rep. of Korea in 2019

◦ Country : Republic of Korea

◦ Pest Identification

Erwinia amylovora

◦ Pest Status

Transient : actionable, under eradication program

◦ Summary

Erwinia amylovora (Ea) was confirmed in 17 pear orchards and 99 apple orchards in Korea by 28 June 2019 with molecular diagnostic techniques. There orchards infected with Ea are located within an about 15 km diameter in Anseong city (9 pear orchards) and Cheonan city (6 apple orchards), which is the same area of outbreak in 2015~2018.
Other cities are Chungju (2 pear orchards, 49 apple orchards) and Jecheon (44 apple orchards) which had outbreak in 2018, and Eumseong (6 apple orchards) which is a new outbreak area.

The first official survey on Ea in 2019 was conducted in 7 May ~ 17 May in the outbreak areas. The second official survey was conducted in all the orchards with host plants nation-wide in 3 June ~ 21 June.
The third official survey will be conducted in all the orchards with host plants nation-wide in 1 July ~ 19 July. The final survey on infected areas will be conducted 18 November ~ 29 November 2019. The results of the survey will be updated later.

The Government of Republic of Korea revised manual of official eradication of Ea in 2019 and defined as "Infected Orchards" which confirmed by the occurrence of Ea, and the all host plants of infected orchards are destroyed.

The "Infected Areas" within 100m radius from the infected trees will conduct intensive weekly survey for one month. The "Control Areas" within 2km radius from the infected trees will conduct 1~2 survey per month during May to July. The "Regulated Areas" within 5km radius from the infected trees will conduct regular survey.

◦ Hosts or Articles concerned

Chaenomeles sinensis Koene, *Eriobotrya japonica* (Thunb.) Linl. *Malus domestica* Borkh, *Malus pumila* var. *dulcissima* Koidz, *Pyrus pyrifolia* var. *culta*(Makino) Nakai, *Pyrus serotina* Rehder

Amelanchier alnifora, *A. canadensis*, *Chaenomeles* spp. *Cotomeaster* spp., *Crataegus* spp., *Pyracantha* spp., *Pyrus amygdaliformis*, *Sorbus* spp., *Stranvaesia davidiana* and etc.

◦ Geographical distribution

limited area in Rep. of Korea

◦ Nature of Immediate or Potential Danger

The pathogen could be introduced by plant for planting and cause decrease of the yield of pear and apple. It is known that introduction by commercial fruits is unlikely.

◦ Contact for more information

Animal and Plant Quarantine Agency in Rep. of Korea. (e-mail : npqs@korea.kr)