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Distribution of soybean parasitic Nematode, *Heterodera sojae*, in Korea

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Abstract

A new soybean cyst nematode, *H. sojae* was reported from Korea in 2016. This species is closely related to *H. glycines* which has the same host plant. Morphological observations of the cyst, female, male and second-stage juveniles indicated that this species is differed from *H. glycines*. Especially, cysts of *H. sojae* appeared more round, shining and darker than that of *H. glycines*. The distribution of this new cyst nematode in soybean field in Korea is unknown so far. In 2016, 270 soil samples were collected from soybean fields and examined the existence of *H. glycines* and *H. sojae*. Total of 111 samples contained cysts (41.1%). Among them 77% were *H. glycines* and 23% were *H. sojae*. *H. sojae* is future threatening in soybean production area.

Keywords: *Heterodera sojae*, *Heterodera glycines*, distribution, soybean, occurrence frequency

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