Identification of crop and weed species as possible hosts to the pathogens causing Phomopsis Stem Canker on sunflower

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Figure 2. Lodged annual marsh elder in North Dakota sunflower field.





Figure 4. Diaporthe gulyae causing pod blight of soybean, Glycine max, in South Dakota as confirmed by morphology and quantitative polymerase chain reaction (qPCR) assays.



Figure 5. Diaporthe helianthi was present in South Dakota common annual sunflower, *Helianthus* annuus, samples as confirmed by DNA sequencing.











Figure 7. Diaporthe

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Figure 6. North Dakota sunflower field where Ragweed, Ambrosia artemisiifolia L., samples positive for *Diaporthe helianthi* were obtained. *helianthi* present in ragweed in North Dakota as confirmed by qPCR assays.