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Verticillium wilt suppression using Elatus in-furrow at planting

Technical Recommendation

Verticillium wilt is caused by two soil-borne fungi, *V. dahlia* and *V. albo-atrum*. A problem affecting a wide range of crops, Verticillium persists in soils for many years. Verticillium is a key component in a complex of pests causing 'potato early die' (PED) in potatoes. Losses have been reported as high as 50 percent where PED was severe.



Verticillium wilt

Photo courtesy of Jeff Miller

Symptoms

Sometimes indistinguishable from normal plant senescence, early PED foliar symptoms may be limited to uneven chlorosis of older leaves on odd plants throughout the field.

Other symptoms include wilting leaflets, yellowing of leaves and chlorosis progressing upwards leaving erect stems. Inspecting the cross section of the stem base often reveals a light brown vascular discoloration (although this discoloration is not unique to PED).

Advanced symptoms may include individual declining plants or the apparent early maturation of the entire crop occurring as the season progresses. Verticillium symptoms are highly variable and may be associated with other diseases or physiological problems.

Management strategies

- Use of resistant potato varieties
- Fertility and irrigation management – optimum phosphorus and potassium soil concentrations and avoiding water stress after flowering
- Crop rotation – green manure crops
- Fumigation

Elatus Verticillium wilt suppression (2ee label recommendation)

The application of Elatus® fungicide in-furrow at planting for the control of *Rhizoctonia*, black dot and silver scurf, has been shown to suppress Verticillium levels. Use as a management tool in combination with the strategies listed above for best results.

Application recommendations

- Apply Elatus fungicide in-furrow as a narrow band over the seed piece directing the spray into the furrow before the seed is covered.
- Apply at 0.5 fl oz./1000 linear row feet to suppress Verticillium wilt.
- Apply in 3 to 15 gallons of water using nozzles that provide an even spray band across the treated area and surrounding soil.
- Refer to the Sec 3 label for all precautionary statements and use directions.

For more information, visit www.syngenta.com/elatus.



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GS 2514_6_1

SLC 11308A 11-2018