



Table 1. Fungicide Sensitivity of SLB Isolates Collected After 7 Sprays in Elba Onion Fungicide Trial, 2023

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SLB isolates collected from:	% in each category of SLB isolates exposed to:							
	Tebuconazole (3c)				Propiconazole (3a)			
	< 1 ug/ml (sensitive) ¹	1-10 ug/L (moderately insensitive) ¹	10-25 ug/L (insensitive) ¹	> 25 ug/L (highly insensitive) ¹	< 1 ug/ml (sensitive) ¹	1-10 ug/L (moderately insensitive) ¹	10-25 ug/L (insensitive) ¹	> 25 ug/L (highly insensitive) ¹
Elba Onion Scouting Fields 2022 ² (n = 17)	0	75	25	0	0	94.1	5.9	0
Nontreated Control in Fungicide Trial ³ (n = 30)	3	20	23	63	0	83	17	0
Viathon 3 pt (3c + P07) = 1 x 3 (n = 9)	0	0	33	67	0	57	33	0
Viathon 3 pt + Tilt 8 fl oz (3c + 3a + P07) = 2 x 3 (n = 44)	0	0	34	66	0	59	41	0
Viathon 3 pt + Tilt 16 fl oz + extra 3c (3a + 3c) x2 = 4 x 3 (n = 30)	0	3	30	67	0	73	33	3

Blue shading indicates a very similar profile between ambient SLB in Elba between 2022 and 2023, suggesting that fungicide sensitivity is relatively unchanged. Gray shading indicates similar profile between 1 x 3 and 2 x 3 and/or 4 x 3, which suggests that adding additional FRAC 3s to the tank mix is not changing selection pressure towards increased insensitive isolates.

1 Presumably, **sensitive** isolates should be adequately controlled by regular labeled rate of fungicide. **Moderately insensitive** isolates are starting to develop fungicide resistance and may be killed by higher product rates or stacking FRAC 3 fungicides in a tank mix (e.g. 3a + 3c). **Insensitive isolates** have developed resistance and increased rates or stacking 3 + 3 in a tank mix may or may not kill all of these isolates. **Highly insensitive** isolates are considered uncontrollable even with high product rates and stacking several FRAC 3s in a tank mix. The risk of stacking multiple FRAC 3s in a tank mix is the selection of highly resistant isolates

2 This sample reflects ambient SLB in Elba muck at the end of the 2022 onion growing season, a composite of SLB isolates collected from 8 scouting fields.

3 This sample reflects ambient SLB in Elba muck at the end of the 2023 onion growing season, although only collected from the field where the trial was located, where no more than 2 apps of FRAC 3 were applied in 2022 and 2023.