

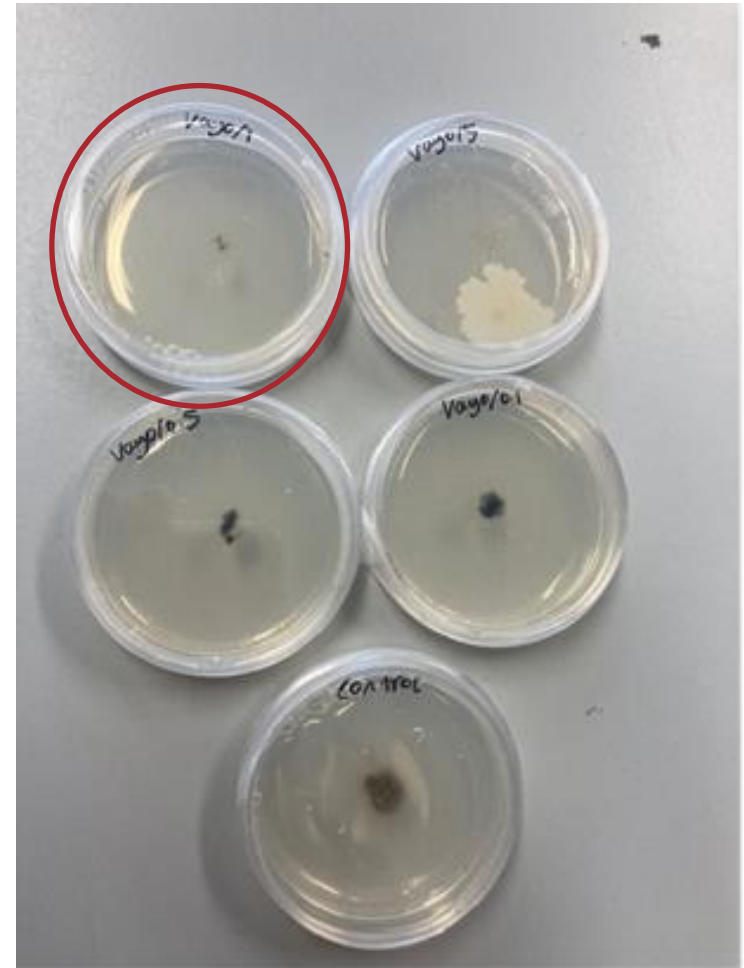
Scab sensitivity screening

AgriiTM



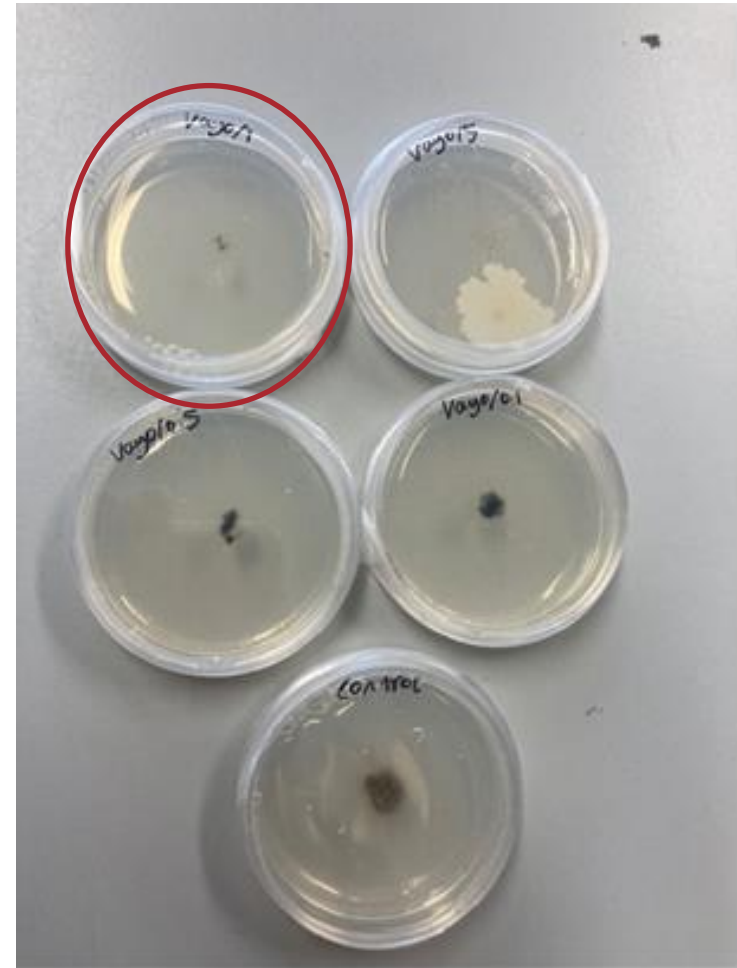
Agrii Scab screening activities

- + Agrii have been carrying out sensitivity assessments on a number of Apple orchards since 2021.
- + The initial intention was to give a snap shot of possible sensitivity difference in scab population towards the end of the growing season.
- + This would aid decision making for late autumn management and 'watch-outs' for the following season



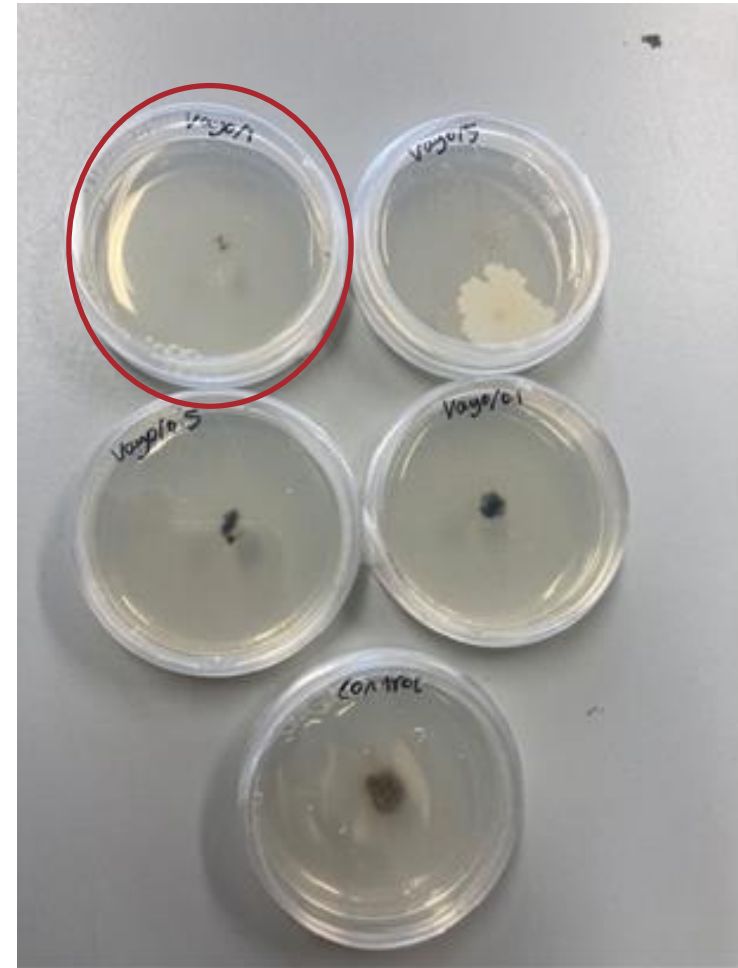
Scab screening process

- + Work is carried out by FERA each season
- + To set up the screen a range finder assessment was done on a known scab population for a set of key fungicides.
- + That dose rate is then used as the working dose rate for the samples collected each season.

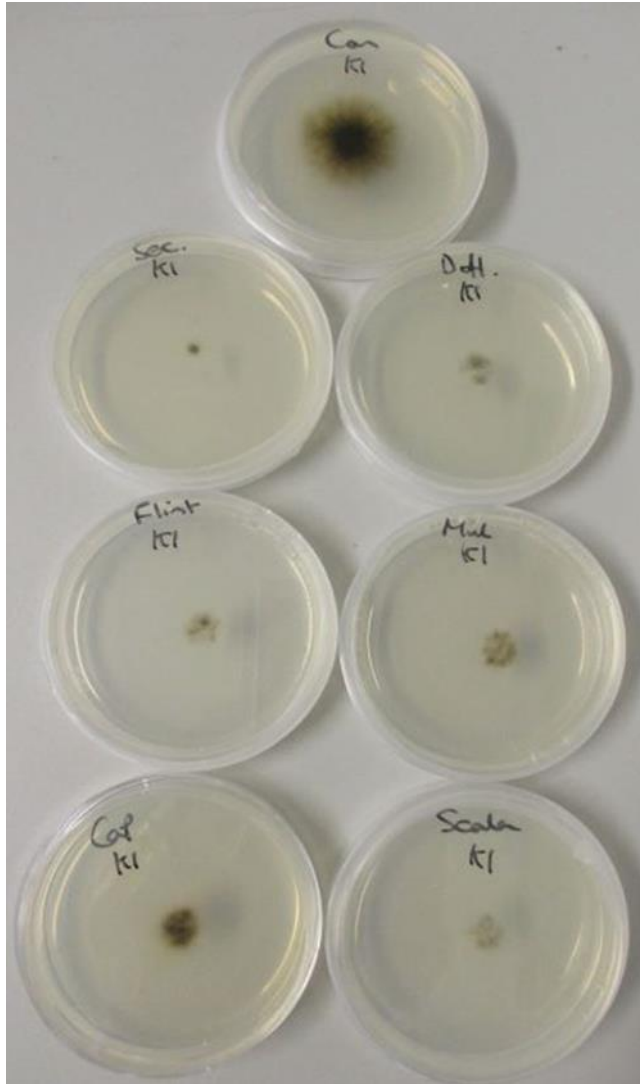


Scab screening process

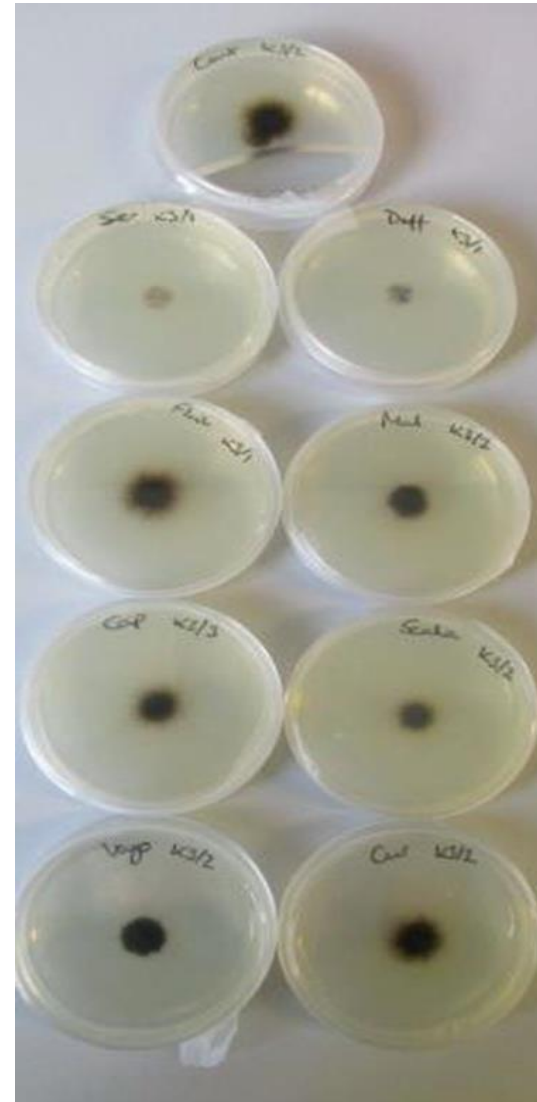
- + The dose rate selected is a rate that allows germination but limits growth within the inoculated dot.
- + This dose rate is then used as a screening point each season. It provides a fixed point for efficacy in a lab setting.
- + The same 6 locations have been used since. Which includes 5 dessert apple crops and 1 cider.



Scab screening trials some examples



23SSK1



23SSK3

Scab screening trials 2023

Active Ingredient (a.i.)	% Reduction in colony area						Mean
	23SSK1	23SSK2	23SSK3	23SSK4	23SSH1	23SSEA1	
Fluxapyroxad	91.3	80.4	64.5	69.3	74.7	88.4	78.1
Difenoconazole	80.8	59.2	71.9	84.9	74.2	79.2	75.1
Trifloxystrobin	78.9	68.7	-22.4	-4.0	100.0	66.4	48.0
Dithianon	80.2	56.2	43.8	19.3	80.2	55.4	55.9
Captan	57.3	55.6	0.0	8.5	61.5	41.7	37.4
Mefentrifluconazole	83.8	76.2	97.6	94.8	79.4	83.4	85.9
Mean	78.7	66.1	42.6	45.5	78.4	69.1	63.4

Scab year to year comparison

Active Ingredient (a.i.)	% Reduction in colony size	
	Mean 2023	Mean 2024
Fluxapyroxad	78.1	57.7
Difenoconazole	75.1	95.1
Trifloxystrobin	48.0	42.7
Dithianon	55.9	65.8
Captan	37.4	47.1
Mefentrifluconazole	85.9	94.4
MEAN	63.38	67.14

Scab screening going forward

- + Clear pattern were seen from year to year in sensitivity.
- + Some product variance mirrored agronomist experience
- + This has to be recognised as only a snap-shot in time
- + Agrii have asked FERA to change methodology in 2025 to mirror the fight against blight methodology
- + So this now involves testing the same sites at 6 different concentration to look more effectively for sensitivity shifts