

# ONE AgriTech Programme

## Evaluation of New Technology

**Technology assessed:** SKAI Spot Sprayer by Tarff Valley

Developed by Soil Essentials, SKAI is an advanced spot-spraying system powered by AI. The system identifies and targets individual weeds in real-time offering maximum precision so that treatments are only applied where is needed.

The 12M mounted sprayer was purchased in 2024, at a cost of £65,000. It has a 2,000 litre water tank with 100 litre chemical tank. It is mounted on a 155HP tractor.

Criteria	Score (1-5)	Reason for assessment
<b>Ease of Use</b>	5	The machine is easy to operate, the control box and technology is pretty much self-explanatory.
<b>Reliability</b>	5	Only problem we have had was a faulty camera.
<b>Value – what are the benefits?</b>	5	Tarff Valley have covered roughly 3,000 acres last year (2025) with an average chemical saving of 75%. Compared to conventional spraying, you don't check grass growth or kill clover. We used it largely for spraying Dockens in grassland.
<b>Any drawbacks?</b>	5	Operator needs to make sure cameras are working properly and the machine is also getting a good GPS signal. The nozzles last year struggled in windier weather. You had to stop with the spot sprayer well before you would need to stop with conventional spraying. We have changed the nozzles for this season (2026) which, they tell us should give us 80% more spraying days.
<b>Effectiveness – delivered what anticipated?</b>	5	We and our customers are all delighted the way the sprayer has worked.
<b>Value for money?</b>	5	This is largely a contractor's machine. The sprayer will pay for itself in 3 – 4 years and still have a high resale value.

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<b>Overall Assessment</b>	5	Delighted with the machine and we can see us adding a second in the future.
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