

TESTING THE EFFICACY OF A SPRAYING PROGRAM WITH AND WITHOUT THE ADDITION OF **WETCIT** ON POTATO LATE BLIGHT



SPRAYING IN A POTATO FIELD FOR PREVENTION OF POTATO BLIGHT. PICTURE TAKEN NEAR NEWARK, NOTTINGHAMSHIRE.

PHOTO CREDIT: JOE ALLEN, CHAFER MACHINERY

BASIC INFORMATION

TARGET	Potato late blight (<i>Phytophthora infestans</i>)
CROP	Potato
SPRAY VOLUME	300 l/ha
LOCATION	Lelystad • The Netherlands
TRIAL DATE	June - August 2016
RESEARCHER(S)	Cebeco/ Agrifirm i.c.w. Wageningen U&R

FIELD SITUATION

The field was divided in 11 treatments with 4 randomized repetitions from which we compared two treatments. 6 complete assessments were done, recording crop stage, weather conditions and % leaf damage through the trial period. We compared the results of the addition of **WETCIT** to a program that includes 5 treatments of Revus®, 4 treatments of InFinito® and 1 treatment of Ranman® Top vs. same program without **WETCIT**. Final assessment was done August 10th, two days after Ranman® Top treatment.

TREATMENT TABLE

	16/JUNE	23/JUNE	01/JULY	06/JULY	13/JULY	14/JULY	18/JULY	25/JULY	29/JULY	03/AUG	08/AUG
T#	T1	T2	T3	T4	T5-1	T5-2	T6	T7	T8	T9	T10
A	0,6 l Revus®	0,6 l Revus®	0,6 l Revus®	0,6 l Revus®	0,6 l Revus®	0,6 l Revus®	1,2 l InFinito®	1,2 l InFinito®	1,2 l InFinito®	1,2 l InFinito®	0,5l Ranman® Top
K	0,6 l Revus® + WETCIT *	0,6 l Revus® + WETCIT *	0,6 l Revus® + WETCIT *	0,6 l Revus® + WETCIT *	0,6 l Revus® + WETCIT *	0,6 l Revus® + WETCIT *	1,2 l InFinito® + WETCIT *	1,2 l InFinito® + WETCIT *	1,2 l InFinito® + WETCIT *	1,2 l InFinito® + WETCIT *	0,5l Ranman® Top + WETCIT *

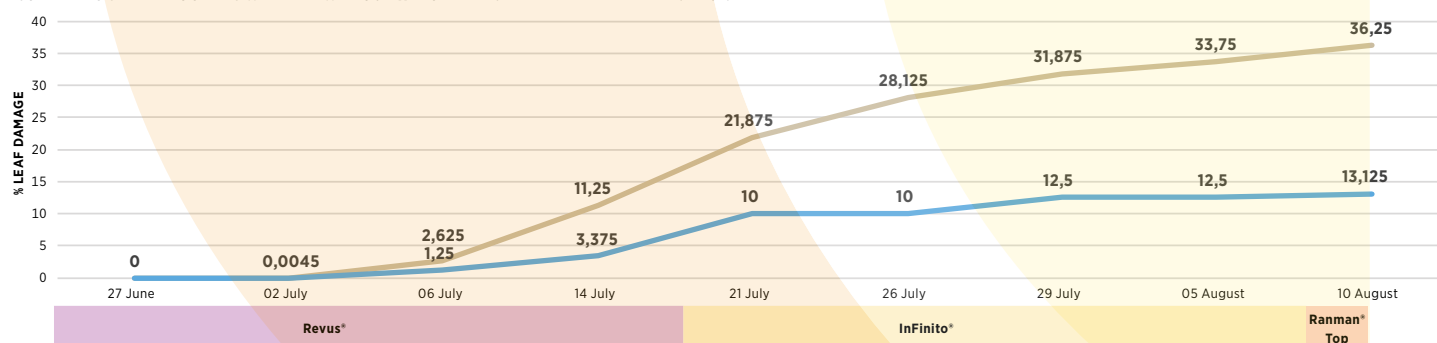
* **WETCIT** was applied at 0,25 % in all treatments.

FIGURE 1

Evolution of leaf damage by late blight (%)

■ A: Revus® / InFinito® / Ranman® Top ■ K: Revus® / InFinito® / Ranman® Top + **WETCIT**

COMPARING SPRAY PROGRAMS WITH AND WITHOUT **WETCIT**. LELYSTAD • THE NETHERLANDS • 2016



CONCLUSIONS

- Looking at the assessments done during the period of applications of Revus®, we can conclude that adding **WETCIT** results in infestation decrease from 11,25 % leaf damage to 3,38 %, **reducing the damage by 66,2 %**.
- Looking at the assessments done during the period of applications of InFinito®, we can conclude that adding **WETCIT** results in a infestation decrease from 33,75 % leaf damage to 12,5 %, **reducing the damage by 63 %**.
- Comparing the results, there was a significant reduction of the leaf damage by late blight when adding **WETCIT** to the all treatments. The tank mix with **WETCIT** at 0,25 % in all treatments **increased the efficacy of disease infestation control by 23,12 %**.
- Comparing all 11 treatments on this trial, the combination of **WETCIT** plus Revus®, InFinito® and Ranman® was by far the most efficient in the control of late blight.