



## Sugar beet virus yellows

*Additional information for note of September 2017*

### **Yield impacts – October 2017 (Observation 934BE)**

#### **Technical itinerary of Plot 934BE (Normandy) :**

- "Standard" seed
- Sown on 5<sup>th</sup> April
- 3 insecticides (pyrethroids/carbamates) during crop growth:
  - treatment 1: 15th May 2017
  - treatment 2: 24th May 2017
  - treatment 3: 11th June 2017
- First symptoms of virus yellows observed end of June (early outbreak of virus yellows)
- Harvest on 10th October 2017 in two modalities:
  - healthy beets,
  - beets affected by virus yellows.
  - elementary/basic plot size: 3 rows of 5 m with 4 repetitions.
  - Implementation: one repetition corresponds to 1 plot in a virus outbreak and 1 plot in the contiguous healthy zone. We took the samples from the same rows for each repetition.

#### **Table of trial results - 934BE** (Factor 1: virus yellows)

	<b>Beet weight t/ha</b>	<b>Sugar content %</b>	<b>Sugar / ha t /ha</b>	<b>Sugar / ha index</b>
No virus yellows	109.30	18.43	20.14	100
Virus yellow	75.57	17.09	12.92	64

In this example/trial, 25 % of the plot was affected\* and 75 % was unharmed on 10th October, date of harvest.

- Incidence/effect of the disease on infected zones compared to uninfected control: 36% decrease
- Incidence/effect on the entire plot : 9% decrease

\* *Estimated area affected by virus yellows: 25.17 % - (using PREVIBET – ITB image analysis)*

*Symptoms of virus yellows  
observed in September 2017*

*Photo ITB September 2017*

