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MICENO TOMATO PLANTATION

IMPLEMENTATION REPORT

28th of September 2023

The implementation main result

The miceno tomatoes were surprisingly fresh, healthy and firm when harvested, unlike the plantations next door

Customer details

- Farm Name: MICENO TOMATO PLANTATION
- Total farm area: 150ha
- Crop: ground tomatoes
- Crop name type: miceno
- Planting date: 20.05.2023
- Implementation area: 0,7ha (11 rows)

Treatment dates

Treatment date	Treatment control	Product	The dose of our fertilizer in L/ha	Doses of other fertilizers in kg/L/ha
04.07.2023	No	O55 i O80	1L O-55 i 1L O-80/250 L water	n/a
12.07.2023	No	O55 i O80	1L O-55 i 1L O-80/250 L water	n/a

The customer received 12L of fertilizer - 6L O55 and 6L O80.

The above information comes from Client confirms that on both the miceno tomatoes (0.7ha) and the cucumbers (approx. 1ha) he applied 2 sprays each with approx. 1.5L of fertilizer for the first spraying ("sprayer run") and 1L of fertilizer for the second spraying - according to a message from Maspex.

Results – client report from the 26.07.

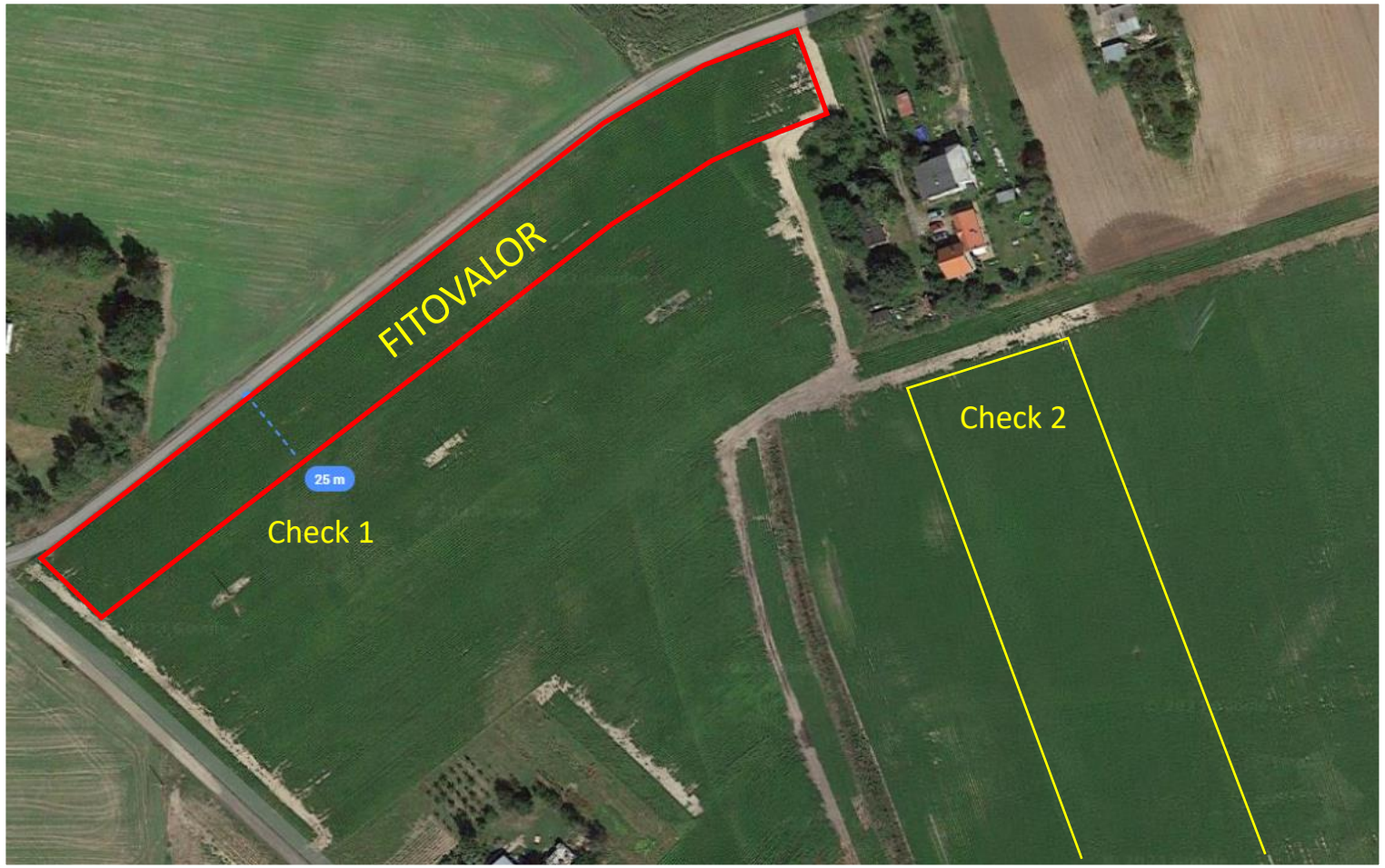
No difference visible. The use of the product coincided with rainfall and a general improvement in the vigor of plants in the plantation.

Measurement date	Time	Type	Temperature °C	Chlorophyll	Flavonoids	Anthocyanins	NBI - Nitrogen Balance Index
04.07.2023	09:50:25	M	27,05	36,60	1,30	0,04	28,20
12.07.2023	09:05:47	M	23,39	37,90	0,98	0,06	38,53

Field definition 1

- [field 1] Our field, plantation after using **FITOVALOR** fertilizer. The plantation retained exceptional freshness and firmness of the fruit until the 25.09.2023
- [field 2] **Check 1**, is a plantation directly adjacent to the FITOVALOR field. It is analyzed in the presentation below at the growth stage 30.08.2023. During our visit on 25.09.2023, the plantation had already been harvested. The customer claims that it was high time to harvest - the fruit was becoming soft and overripe.
- [field 3] **Check 2**, is a plantation compared at the harvest stage on 25.09.2023. The variety is Edimar and was planted around 14-15.05.2023.The plantation looks as if it were less mature than ours (the appearance of the bushes).

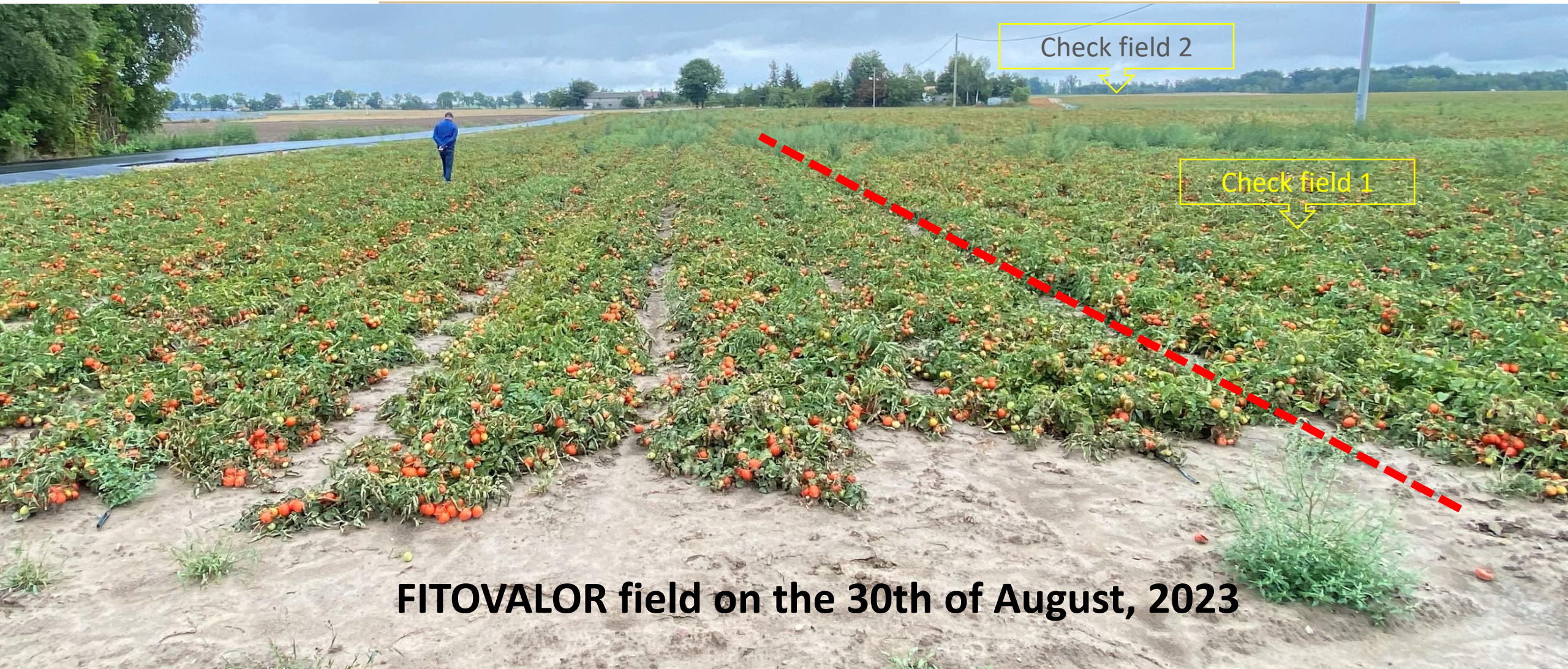
Field definition 2



Growth stage results1

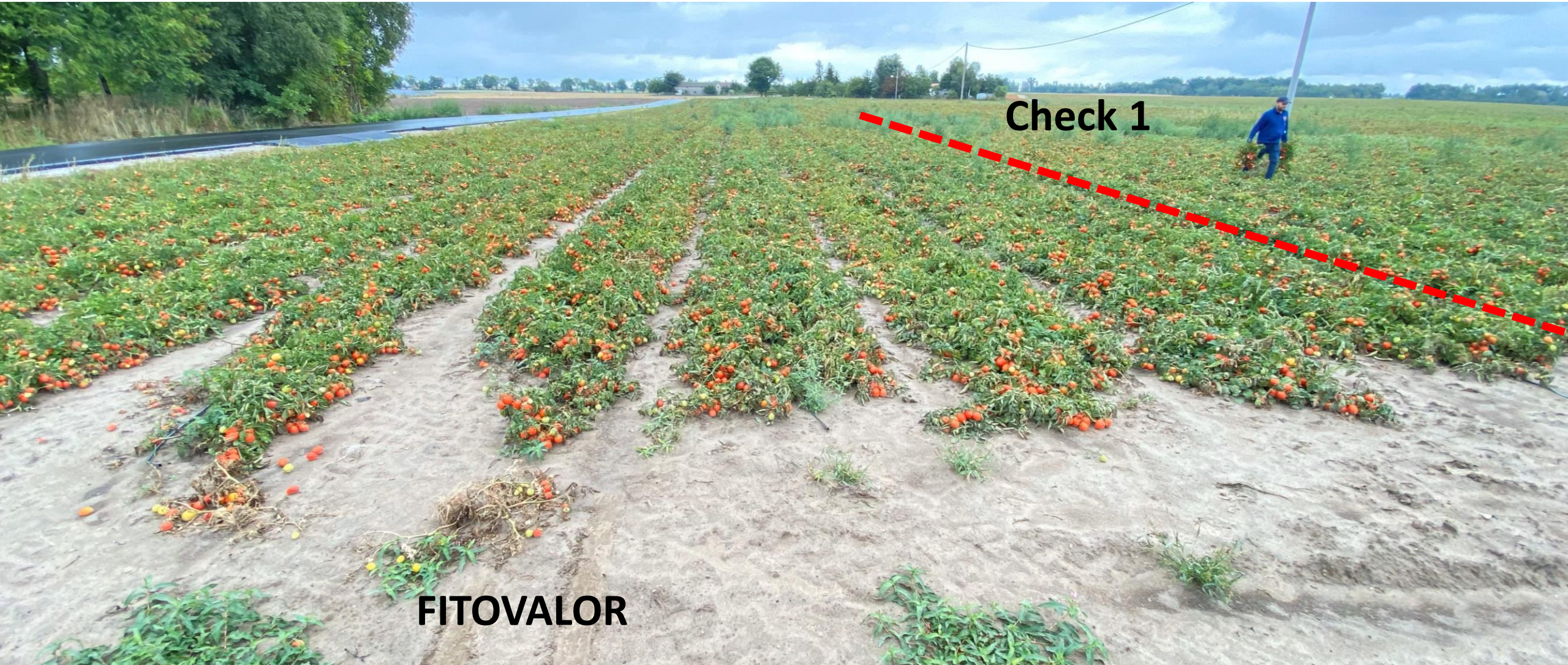
- The analysis below is based on the visit on 30.08.2023.
- Visually, our field and check field 1 do not differ significantly in terms of leaf color or the number of ripe tomatoes, but you can notice, that the bushes in the FITOVALOR field are more luxuriant than in check field 1.
- The FITOVALOR bush in the sample taken is more luscious than the control. The diameter of both bushes is approximately 65 cm, but our sample is more spreading.
- The tomatoes themselves appear to be identical in general appearance. The largest ripe tomatoes have a diameter (side) of 4-4.5 cm.
- Weight of tomatoes – no analysis.

Growth stage 2 results



FITOVALOR field on the 30th of August, 2023

Growth stage 1 results



Growth stage 3 results

Growth stage 4 results

The bush volume

FITOVALOR

Check

The tomato diameter

FITOVALOR

Check

Growth stage 2 results

- Number of tomatoes on a branch: 4-6-8 pieces on both bushes.
- The leaves on the FITOVALOR bush were less damaged. We don't know what caused this condition of the leaves, but the difference is visible. The leaves of our bush are healthier.
- Harvest on both bushes: FITOVALOR – 73 ripe tomatoes, check 1 – 71 tomatoes. Unripe tomatoes: FITOVALOR – 17 pieces, check – 13 pieces. Therefore, **the potential of our bush is 90 tomatoes.**
- Fruit rotting/wrinkling – at the harvest stage, our crop clearly has an advantage over the check crop. Our crop had a maximum of 2 rotten fruits on the bush, while the check had 7 fruits that were rejected due to rot/wrinkling.

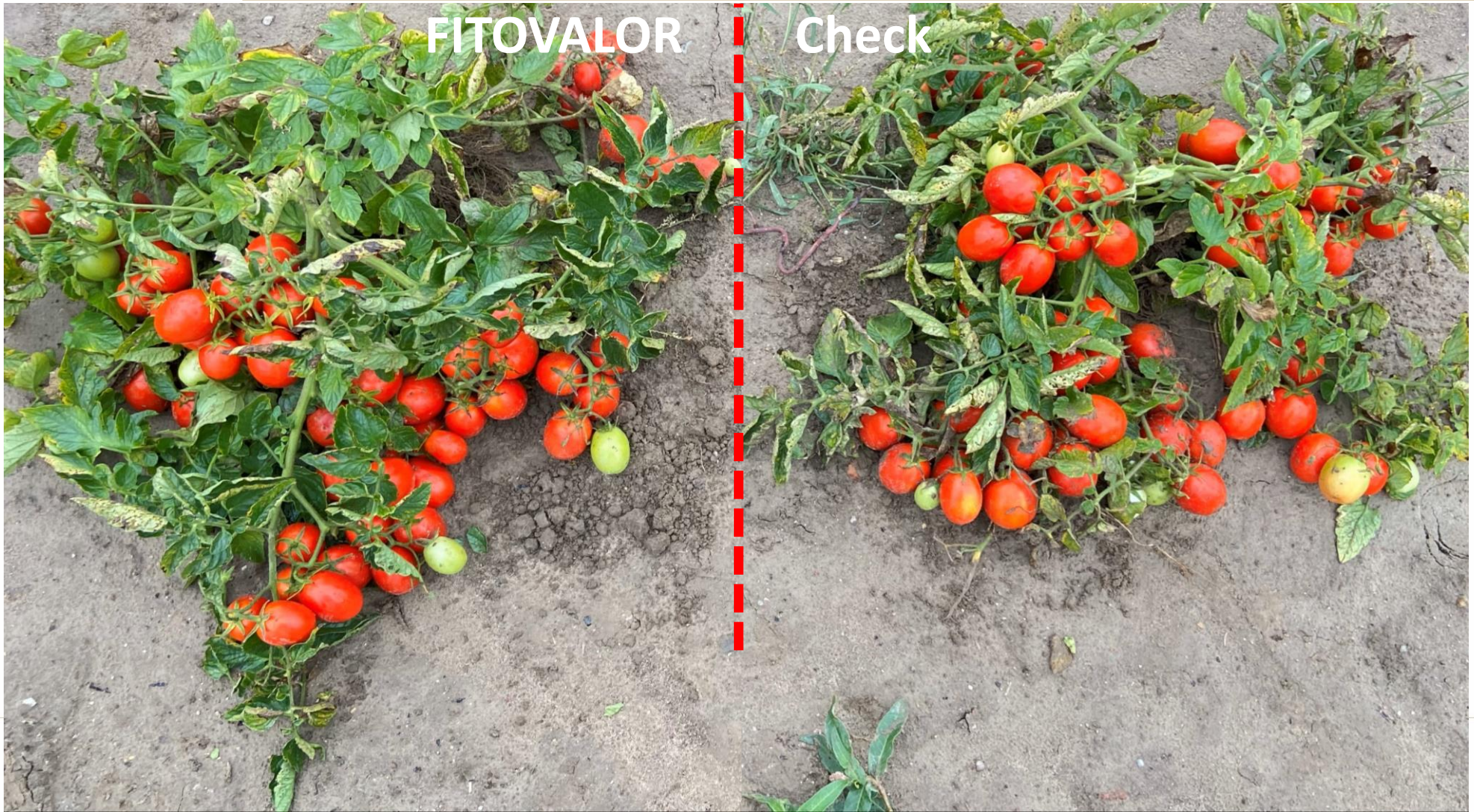
The tomatoes on a branch

FITOVALOR

Check

FITOVALOR

Leaves condition on the bush



Harvest on the 30.08.2023

Fruit rotting/wrinkling

Results at the harvest stage 1

- The analysis below is based on the visit on the 25.09.2023.
- Our tomatoes are still firm and hard compared to the control 1 located next to them (after harvesting). The fruit is juicy, fresh and ripe, but not overripe. The tomatoes picked nearby were already soft, very ripe and could not remain in the field any longer. Tomatoes from check field 2 are also firm, hard and fresh.
- Visually, our field and check field 2 are significantly different - our field is largely without leaves and most of the tomatoes are visible, while check 2 still has quite lush leaves.
- Number of tomatoes on a branch: 4-6-8 pieces on both fields. In our field, among random photos, there are also branches with 9 fruits ☺

Results at the harvest stage

Results at the harvest stage

Check field 2 on the 25.09.2023

Tomatoes appearance

Results at the harvest stage 2

- The tomatoes themselves seem to be similar in general, but with an advantage for our plantation. Our largest tomatoes have a diameter (side) of 4.5-5cm, check 2 has the largest tomatoes of 4-4.5cm.
- Weight of tomatoes – no analysis.
- Harvest on a test FITOVALOR bush - 84 ripe tomatoes, 6 unripe tomatoes, rotten - 0 pieces. **The potential of our bush has been confirmed: 90 tomatoes.**
- Fruit rotting/wrinkling - at the harvest stage, our crop clearly has an advantage over check 1. Our field and check 2 - no visible differences.

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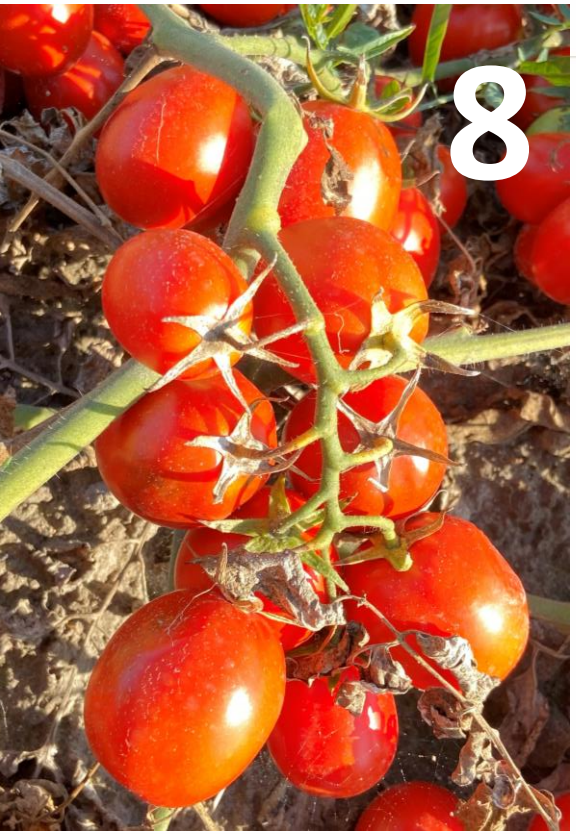
The tomatoes on a branch



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The tomato diameter

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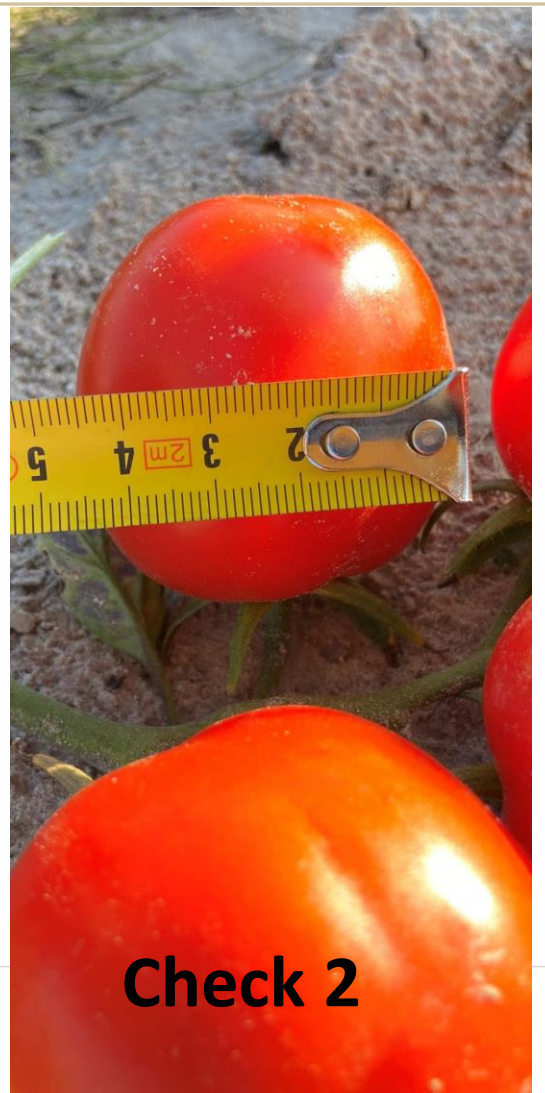

Check 2

Conclusions

Increased Yield and Quality of Crops

- The use of FITOVALOR fertiliser resulted in a significant increase in both the quantity and quality of the yield of ground tomatoes. Plants that were fertilised with FITOVALOR fertiliser showed healthier fruit.
- **Healthier Plants and Disease Resistance**

  Plants fertilised with FITOVALOR concentrate showed higher disease resistance, resulting in lower losses and better plantation health.
- **Balanced Plant Nutrition**

  FITOVALOR provides the plants with the necessary macro- and micronutrients, which translated into balanced plant growth. Plants are better fed, which is evident in their improved growth.

- At the harvest stage, the customer emphasises that the **durability, firmness and freshness of the tomato fruit after our fertiliser is surprising**. The customer is interested in fertilising with FITOVALOR in 2024.

Results after harvest

- Harvest date: 21-28 of September 2023
- Yields in the check and FITOVALOR fertilized fields were not counted separately. The total yield of the MICENO variety of ground tomatoes was 50-58t/ha. Next year we will make sure that the figure of 58t/ha belonged to us :)
- Fertilization costs were not controlled because the crop was grown as part of a MASPEX research project.


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