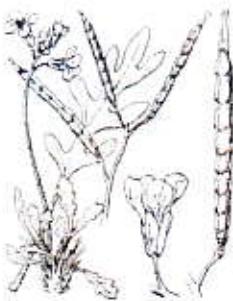


Government Office of Jász-Nagykun-Szolnok County
Szolnok District Office
Department of Agriculture
Division Plant Protection and Soil Conservation
GEP Accredited trial site

Code number: T-14-2017

**REPORT ON
REGULATOR TRIAL**

2017



Object of the trial:

SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER

Product: ALBIT

Crop: Sunflower (*Helianthus annuus*)

**SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER
Code number: T-14-2017**

**On the basis on Regulation No. 04.2/7459-7/2016. of National Food Chain Safety Office (NÉBIH)
Directorate of Plant Protection , Soil Conservation and Agri-environment
the efficacy trials of Government Office of Jász-Nagykun-Szolnok County Szolnok District Office
Department of Agriculture, Division Plant Protection and Soil Conservation are conducted in
accordance with the Good Experimental Practise (GEP).**

1. Product:

1.1. Name: Albit

1.2. Active ingredient, composition:

Poly- β -hydroxybutyrate - 0,62 %
Dipotassium hydrogenorthophosphate, K₂HPO₄ – 9,11 %
Potassium nitrate, KNO₃ – 9,12 %
Magnesium sulphate, MgSO₄ – 2,97 %
Urea, CON₂H₄ – 18,15 %
Auxiliary substances – 3,9 %
Water – 52,9 %

1.3. Manufacturer:

Albit Scientific and Industrial LLC,
142290 Russia, Moscow oblast, Pushchino, Prof. Vitkevicha str., 2.

1.4. Client and cost bearer:

MAYLINE CORPORATION LP, s.r.o.,
Na Kozačce 1103/5, 120 00 Praha 2 – Vinohrady, Czech Republic

2. Plant

2.1. Species (english): sunflower (latin): *Helianthus annuus*

Variety: MAS 87.IR (Clearfield technologie)

2.2. Date of sowing: 26 April 2017 14:00

Type of sowing equipment: Kuhn Maxima 2TT

2.3. Germ number: 56.000 germ/ha

2.4. Depth of sowing: 5 cm

2.5. Preceding: Winter Wheat (*Triticum aestivum*)

2.6. Distance of rows and of plants: 75 cm, 23 cm

2.7. Other crop characteristics, homogeneity, virulence:

On the experimental area rabbit damage has been recorded, but it hadn't got effect which influenced the results.

2.8. Date and way of harvest: The sunflower was harvested on 18 September 2017.

To determinated the whole parcel yield, the sunflower heads were harvested by hand, The sunflower heads were harvested per plots and put into separate bags.

3. Experimental site

3.1. County, location, farm: Jász-Nagykun-Szolnok County, Jászladány City
parcel identification number.: UOP18-2-14, Lot number.: 0172/11

SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER

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3.2. Genetic soil type: Alluvial meadow soil

3.3. Physical soil type: Clay

3.3.1. Compaction / according to Arany/: 57

3.3.2. Organic matter %: 2,63

3.3.3. Soil pH: 6,86

4. Trial set

4.1. Plot size: small plot 1,5*15 m

4.2. Replicates: 6

4.3. Lay-out: randomized block

| | | | | | | |
|----------------------------|-----------|---|---|---|---|----------------------------|
| N47,342945° E20,157088° | VI. ism. | 2 | 1 | 4 | 3 | N47,342889° E20,157246° |
| | V. ism. | 4 | 3 | 1 | 2 | |
| | IV. ism. | 3 | 4 | 2 | 1 | |
| | III. ism. | 2 | 1 | 4 | 3 | |
| | II. ism. | 4 | 3 | 1 | 2 | |
| | I. ism. | 1 | 2 | 3 | 4 | |
| N47,342249° E20,156479° | | | | | | N47,342203° E20,156597° |

4.4. Treatment datas:

| Treatments | Dosage | Growth stages | Water quantity (l/ha) |
|-------------|----------|--------------------------|-----------------------|
| 1. Kontroll | - | - | - |
| 2. ALBIT | 150 ml/t | (BBCH 00) Seed treatment | 15 l/t |
| 3. ALBIT | 300 ml/t | (BBCH 00) Seed treatment | 15 l/t |
| 4. ALBIT | 600 ml/t | (BBCH 00) Seed treatment | 15 l/t |

The standard product we should have used in the treatment (Baktomix UN) can not purchased from the manufacturer (Metalmont Kft.). We used the seed treatment found on the seed as a control (Fludioxonil+Metalaxyl M).

4.5. Equipment: Hege 11 (Wintersteiger) liquid seed treater

4.6. Date of seed treatment: 26 April 2017 (11:00)

4.7. Solubility: good

4.8. Meteorological conditions on the date of sowing:

| | |
|---|-----------------------|
| Date of seed treatment: | 26 April 2017 (11:00) |
| Date of sowing: | 26 April 2017 (14:00) |
| Soil temperature: | 17 °C |
| Precipitation during the 2 week before the sowing (mm): | 41,5 |
| Precipitation during the 2 week after the sowing (mm): | 27,75 |

4.9. Phytotoxic effect: The product used in the trial was not caused phytotoxic symptoms on the plants.

5. Plant protection and other cultural works:

18 May 2017 Pulsar 1,2 l/ha
23 May 2017 Linespacing cultivator
13 June 2017 Pictor 0,4 l/ha

6. Weather conditions:

During before 2 weeks of the sunflower sowing, on the experimental site the precipitation was 41,5 mm, at sowing time the soil temperature was 17 °C, which guaranteed favourable terms for the plant emergence. During the 2 weeks after sowing the average temperature was 13,6 °C, the precipitation was 27,75 mm, due to the favourable terms the emergence of the sunflower was uniform.

At the vegetative development of the sunflower the temperature and the quantity of precipitation was nearly optimal, so the plants grown suitably. The same can not be said of the generative development, because the drought evolved in the county affected the experimental site, which influenced the growth of head and the process of grain-filling negatively, and had an effect on the oil content of the grains too.

On the first decade of September, after the natural drying of sunflower, the harvest was not influenced by the precipitation.

1.table : Meteorological datas at the period of the trial

| Date | Maximum (°C) | Minimum (°C) | Average temperature (°C) | Precipitation (mm) |
|------------|--------------|--------------|--------------------------|--------------------|
| 2017.04.12 | 16 | 8 | 12 | 1 |
| 2017.04.13 | 18 | 2 | 10 | 0,25 |
| 2017.04.14 | 18 | 2 | 10 | 0 |
| 2017.04.15 | 17 | 11 | 14 | 0 |
| 2017.04.16 | 17 | 1 | 9 | 0 |
| 2017.04.17 | 15 | 1 | 8 | 0,25 |

SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER

Code number: T-14-2017

| | | | | |
|------------|----|----|------|------|
| 2017.04.18 | 11 | 3 | 7 | 18 |
| 2017.04.19 | 6 | 1 | 3,5 | 20 |
| 2017.04.20 | 6 | 0 | 3 | 2 |
| 2017.04.21 | 12 | 3 | 7,5 | 0 |
| 2017.04.22 | 15 | 5 | 10 | 0 |
| 2017.04.23 | 15 | 3 | 9 | 0 |
| 2017.04.24 | 15 | 7 | 11 | 0 |
| 2017.04.25 | 22 | 9 | 15,5 | 0 |
| 2017.04.26 | 22 | 10 | 16 | 0 |
| 2017.04.27 | 22 | 13 | 17,5 | 1 |
| 2017.04.28 | 23 | 7 | 15 | 2 |
| 2017.04.29 | 13 | 7 | 10 | 1 |
| 2017.04.30 | 18 | 11 | 14,5 | 1 |
| 2017.05.01 | 23 | 12 | 17,5 | 2 |
| 2017.05.02 | 23 | 12 | 17,5 | 6 |
| 2017.05.03 | 20 | 9 | 14,5 | 0 |
| 2017.05.04 | 19 | 11 | 15 | 2 |
| 2017.05.05 | 19 | 11 | 15 | 0,25 |
| 2017.05.06 | 19 | 10 | 14,5 | 9 |
| 2017.05.07 | 16 | 8 | 12 | 3 |
| 2017.05.08 | 14 | 5 | 9,5 | 0,25 |
| 2017.05.09 | 14 | 5 | 9,5 | 0,25 |
| 2017.05.10 | 14 | 3 | 8,5 | 0 |
| 2017.05.11 | 23 | 13 | 18 | 0 |
| 2017.05.12 | 24 | 13 | 18,5 | 8 |
| 2017.05.13 | 22 | 10 | 16 | 14 |
| 2017.05.14 | 23 | 11 | 17 | 0 |
| 2017.05.15 | 23 | 14 | 18,5 | 0 |
| 2017.05.16 | 24 | 11 | 17,5 | 4 |
| 2017.05.17 | 23 | 10 | 16,5 | 0 |
| 2017.05.18 | 26 | 11 | 18,5 | 0 |
| 2017.05.19 | 26 | 13 | 19,5 | 0 |
| 2017.05.20 | 27 | 15 | 21 | 0 |
| 2017.05.21 | 26 | 13 | 19,5 | 0,25 |
| 2017.05.22 | 25 | 15 | 20 | 0 |
| 2017.05.23 | 25 | 14 | 19,5 | 0 |
| 2017.05.24 | 24 | 11 | 17,5 | 14 |
| 2017.05.25 | 21 | 11 | 16 | 0 |
| 2017.05.26 | 23 | 11 | 17 | 0 |
| 2017.05.27 | 23 | 10 | 16,5 | 0 |
| 2017.05.28 | 25 | 11 | 18 | 0 |
| 2017.05.29 | 27 | 12 | 19,5 | 0 |
| 2017.05.30 | 29 | 15 | 22 | 0 |
| 2017.05.31 | 29 | 16 | 22,5 | 0 |
| 2017.06.01 | 29 | 12 | 20,5 | 0 |
| 2017.06.02 | 28 | 14 | 21 | 0 |
| 2017.06.03 | 29 | 13 | 21 | 0 |

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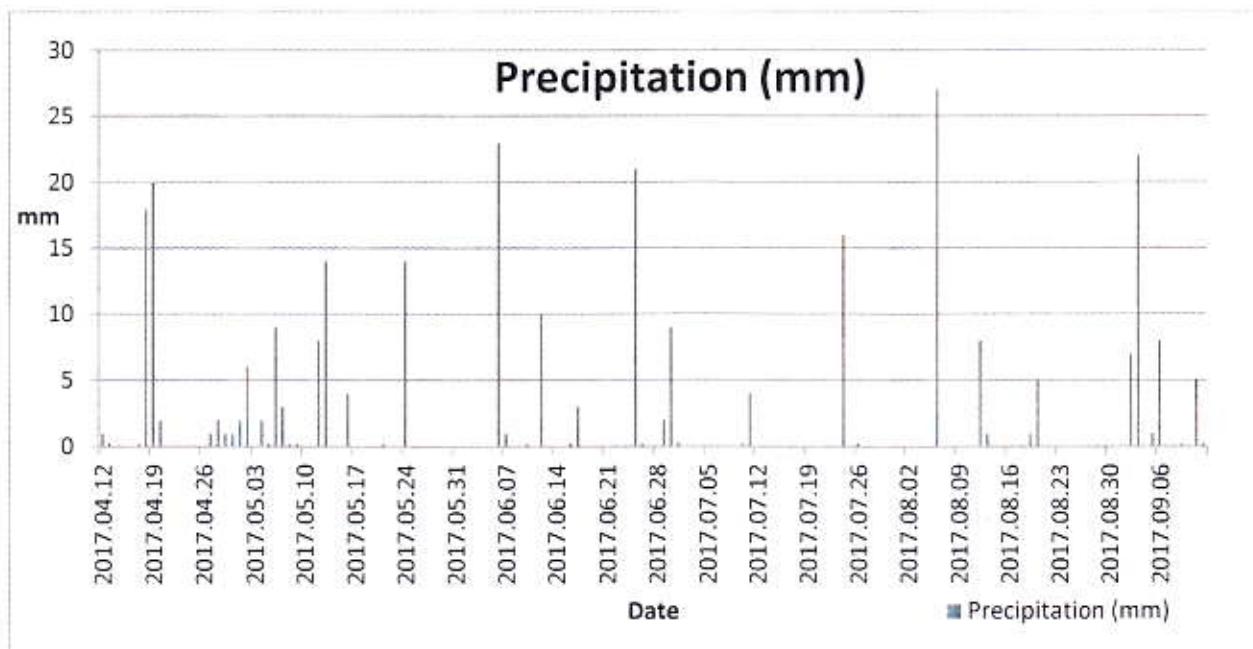
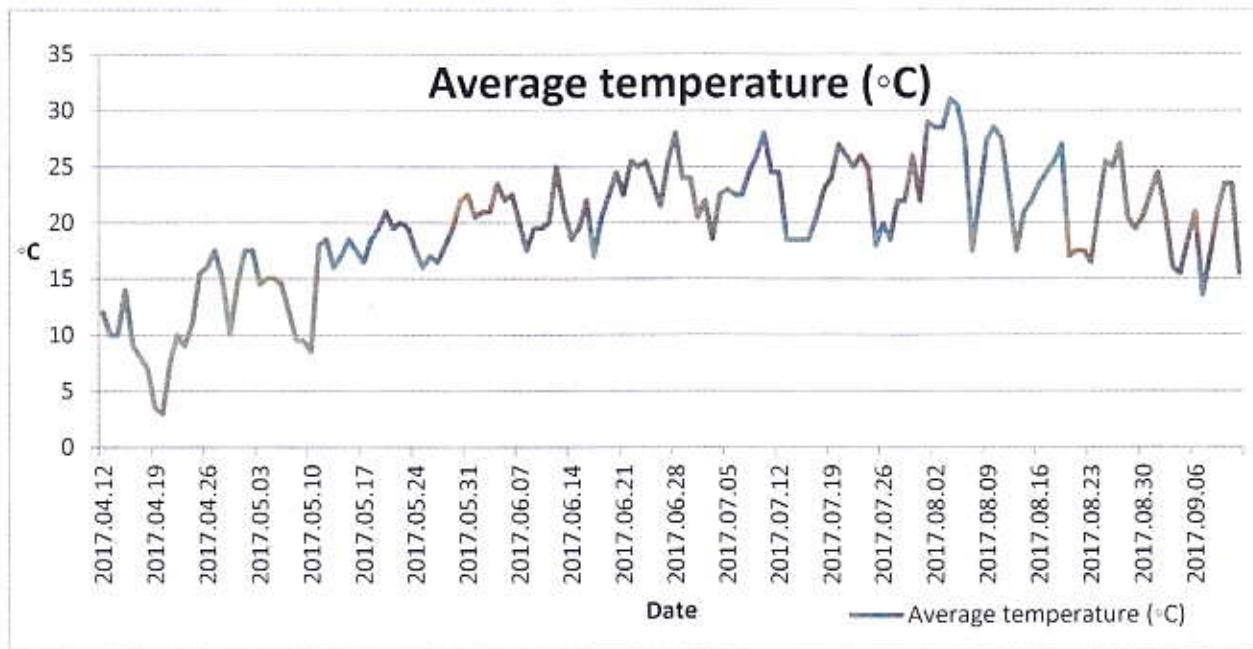
| | | | | |
|------------|----|----|------|------|
| 2017.06.04 | 30 | 17 | 23,5 | 0 |
| 2017.06.05 | 29 | 15 | 22 | 0 |
| 2017.06.06 | 30 | 15 | 22,5 | 23 |
| 2017.06.07 | 25 | 15 | 20 | 1 |
| 2017.06.08 | 24 | 11 | 17,5 | 0 |
| 2017.06.09 | 26 | 13 | 19,5 | 0 |
| 2017.06.10 | 26 | 13 | 19,5 | 0,25 |
| 2017.06.11 | 26 | 14 | 20 | 0 |
| 2017.06.12 | 30 | 20 | 25 | 10 |
| 2017.06.13 | 29 | 13 | 21 | 0 |
| 2017.06.14 | 26 | 11 | 18,5 | 0 |
| 2017.06.15 | 26 | 13 | 19,5 | 0 |
| 2017.06.16 | 27 | 17 | 22 | 0,25 |
| 2017.06.17 | 22 | 12 | 17 | 3 |
| 2017.06.18 | 26 | 15 | 20,5 | 0 |
| 2017.06.19 | 30 | 15 | 22,5 | 0 |
| 2017.06.20 | 32 | 17 | 24,5 | 0 |
| 2017.06.21 | 30 | 15 | 22,5 | 0 |
| 2017.06.22 | 33 | 18 | 25,5 | 0 |
| 2017.06.23 | 32 | 18 | 25 | 0 |
| 2017.06.24 | 32 | 19 | 25,5 | 0 |
| 2017.06.25 | 28 | 19 | 23,5 | 21 |
| 2017.06.26 | 27 | 16 | 21,5 | 0,25 |
| 2017.06.27 | 31 | 20 | 25,5 | 0 |
| 2017.06.28 | 34 | 22 | 28 | 0 |
| 2017.06.29 | 29 | 19 | 24 | 2 |
| 2017.06.30 | 31 | 17 | 24 | 9 |
| 2017.07.01 | 26 | 15 | 20,5 | 0,25 |
| 2017.07.02 | 27 | 17 | 22 | 0 |
| 2017.07.03 | 25 | 12 | 18,5 | 0 |
| 2017.07.04 | 27 | 18 | 22,5 | 0 |
| 2017.07.05 | 30 | 16 | 23 | 0 |
| 2017.07.06 | 31 | 14 | 22,5 | 0 |
| 2017.07.07 | 30 | 15 | 22,5 | 0 |
| 2017.07.08 | 33 | 16 | 24,5 | 0 |
| 2017.07.09 | 32 | 20 | 26 | 0 |
| 2017.07.10 | 36 | 20 | 28 | 0,25 |
| 2017.07.11 | 31 | 18 | 24,5 | 4 |
| 2017.07.12 | 30 | 19 | 24,5 | 0 |
| 2017.07.13 | 26 | 11 | 18,5 | 0 |
| 2017.07.14 | 25 | 12 | 18,5 | 0 |
| 2017.07.15 | 25 | 12 | 18,5 | 0 |
| 2017.07.16 | 25 | 12 | 18,5 | 0 |
| 2017.07.17 | 28 | 13 | 20,5 | 0 |
| 2017.07.18 | 31 | 15 | 23 | 0 |
| 2017.07.19 | 32 | 16 | 24 | 0 |
| 2017.07.20 | 35 | 19 | 27 | 0 |

| | | | | | | |
|------------|----|----|------|------|--|--|
| 2017.07.21 | 34 | 18 | 26 | 0 | | |
| 2017.07.22 | 31 | 19 | 25 | 0 | | |
| 2017.07.23 | 34 | 18 | 26 | 0 | | |
| 2017.07.24 | 33 | 17 | 25 | 16 | | |
| 2017.07.25 | 23 | 13 | 18 | 0 | | |
| 2017.07.26 | 25 | 15 | 20 | 0,25 | | |
| 2017.07.27 | 23 | 14 | 18,5 | 0 | | |
| 2017.07.28 | 28 | 16 | 22 | 0 | | |
| 2017.07.29 | 29 | 15 | 22 | 0 | | |
| 2017.07.30 | 33 | 19 | 26 | 0 | | |
| 2017.07.31 | 24 | 20 | 22 | 0 | | |
| 2017.08.01 | 36 | 22 | 29 | 0 | | |
| 2017.08.02 | 37 | 20 | 28,5 | 0 | | |
| 2017.08.03 | 37 | 20 | 28,5 | 0 | | |
| 2017.08.04 | 39 | 23 | 31 | 0 | | |
| 2017.08.05 | 37 | 24 | 30,5 | 0 | | |
| 2017.08.06 | 37 | 18 | 27,5 | 27 | | |
| 2017.08.07 | 22 | 13 | 17,5 | 0 | | |
| 2017.08.08 | 35 | 18 | 22,5 | 0 | | |
| 2017.08.09 | 35 | 20 | 27,5 | 0 | | |
| 2017.08.10 | 36 | 21 | 28,5 | 0 | | |
| 2017.08.11 | 35 | 20 | 27,5 | 0 | | |
| 2017.08.12 | 28 | 17 | 22,5 | 8 | | |
| 2017.08.13 | 20 | 15 | 17,5 | 1 | | |
| 2017.08.14 | 27 | 15 | 21 | 0 | | |
| 2017.08.15 | 29 | 15 | 22 | 0 | | |
| 2017.08.16 | 31 | 16 | 23,5 | 0 | | |
| 2017.08.17 | 32 | 17 | 24,5 | 0 | | |
| 2017.08.18 | 33 | 18 | 25,5 | 0 | | |
| 2017.08.19 | 35 | 19 | 27 | 1 | | |
| 2017.08.20 | 22 | 12 | 17 | 5 | | |
| 2017.08.21 | 24 | 11 | 17,5 | 0 | | |
| 2017.08.22 | 24 | 11 | 17,5 | 0 | | |
| 2017.08.23 | 24 | 9 | 16,5 | 0 | | |
| 2017.08.24 | 28 | 14 | 21 | 0 | | |
| 2017.08.25 | 33 | 18 | 25,5 | 0 | | |
| 2017.08.26 | 34 | 16 | 25 | 0 | | |
| 2017.08.27 | 35 | 19 | 27 | 0 | | |
| 2017.08.28 | 27 | 14 | 20,5 | 0 | | |
| 2017.08.29 | 27 | 12 | 19,5 | 0 | | |
| 2017.08.30 | 29 | 12 | 20,5 | 0 | | |
| 2017.08.31 | 31 | 14 | 22,5 | 0 | | |
| 2017.09.01 | 34 | 15 | 24,5 | 0 | | |
| 2017.09.02 | 27 | 15 | 21 | 7 | | |
| 2017.09.03 | 19 | 13 | 16 | 22 | | |
| 2017.09.04 | 21 | 10 | 15,5 | 0 | | |
| 2017.09.05 | 23 | 14 | 18,5 | 1 | | |

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| | | | | |
|------------|----|----|------|------|
| 2017.09.06 | 25 | 17 | 21 | 8 |
| 2017.09.07 | 19 | 8 | 13,5 | 0 |
| 2017.09.08 | 23 | 11 | 17 | 0 |
| 2017.09.09 | 28 | 14 | 21 | 0,25 |
| 2017.09.10 | 29 | 18 | 23,5 | 0 |
| 2017.09.11 | 31 | 16 | 23,5 | 5 |
| 2017.09.12 | 19 | 12 | 15,5 | 0,25 |



7. The date of important growth stages:

| | |
|--|--------------|
| Sowing (BBCH 00): | 2017. 04. 26 |
| Emergence (BBCH 09): | 2017. 05. 08 |
| 2-4 leaf stages (BBCH 12-14): | 2017. 05. 22 |
| 6-8 leaf stages (BBCH 16-18): | 2017. 05. 29 |
| 8-10 leaf stages (BBCH 18-110): | 2017. 06. 06 |
| 10-12 leaf stages (BBCH 110-112): | 2017. 06. 20 |
| 12-14 leaf stages (BBCH 112-114): | 2017. 06. 27 |
| Inflorescens just visible between youngest leaves (BBCH 51): | 2017. 07. 04 |
| Beginning of flowering (BBCH 59-63): | 2017. 07. 15 |
| Full flowering (BBCH 64-66): | 2017. 07. 21 |
| End of flowering (BBCH 69): | 2017. 07. 31 |
| Seed formation (BBCH 71-79): | 2017. 08. 07 |
| Back of anthocarp yellow (BBCH 85-87): | 2017. 08. 15 |
| Plant dead and dry (BBCH 97): | 2017. 09. 08 |
| Harvest (BBCH 99): | 2017. 09. 18 |

8. Examined parameters and the method of measurement or sample:

Emergence number:

In every plot – on the 2nd (2017.05.10) and 4th (2017.05.26) week after the sowing the emerged plants was counted in 5 meter lenghts (5 times/parcels).

Plant height:

The plant height was measured 2 times, first at the 2-4 leaves stages of the sunflower (on the 4th week after the treatment – 16 May 2017), then at the beginning of inflorescens (on the 12th week after the treatment – 7 July 2017). The height of 5x10 plants were measured in every plot.

Head diameter:

Head diameter of 5x10 plants were measured in every plot by a measuring-tape. The plants was randomly selected in case of every row.

Achene weight per head:

From every plot 50 plants were randomly selected. Every sunflower head was threshed one by one with a harvesting machine.

Yield:

The whole yield measurement was done in case of every plot. After the head was harvested by hand, the achenes were threshed by a harvesting machine. The actual yield was determined in kg/ha and t/ha.

Kernel weight:

In every plot 4 measurement was executed with seed counter. Among the measurements the outlier value was not considered during the calculation of averages. The statistical data made from the received results.

Oil content:

The oil content of the harvested sunflower was analyzed by the Agricultural Quality Control Laboratory of BÁCS-ÁG Kft. The examination was made on 15 samples per 2 replicates. (I repl.+II repl., III repl.+IV repl., V repl.+VI repl.) from contracted average samples.

9. Evaluation of the trial results

The trial was set on 26 April 2017 in Jász-Nagykun-Szolnok county, in Jászladány city. In the course of the trial the MAS 87.IR seed was treated by Hege 11 (Wintersteiger) liquid seed treater, with 150-600 ml/t dose of product ALBIT (15 l/t water quantity). The standard product we should have used in the treatment (Baktomix UN) can not purchased from the manufacturer (Metalmont Kft.), so we used the seed treatment found on the seed as a control (Fludioxonil+Metalaxyl M).

The treatment was on 26. April 2017, on that date the sowing was occurred with Kuhn Maxima 2TT sowing machine. The quality of seed-bed was great, the moisture content and the temperature favored the emergence. During the 2 weeks after the sowing the precipitation was 27,75 mm, the sunflower emergence was uniform. As a result of the agro-technical and chemical plant protection the plants were free from weed, pest and pathogens at the whole vegetation time. The drought emerged in the county affected the experimental site, which influenced the growth of head and the process of grain-filling negatively, and had an effect on the oil content of the grains too.

On the experimental site there was no desiccation. The harvesting was on 18 September 2017, after the natural drying. The sunflower heads were harvested per plots by hand, which were put into separate bags. In the course of the trial, with regard to the emergence number compared to the untreated control, on the plots which were treated with the product Albit the emergence number was higher during the 2nd and 4th weeks after the sowing.

On occasion of both measure, on that parcels which were treated with 300 and 600 ml/t dose of product significantly more plant was emerged compared to the untreated control. On the parcels

which were treated with the 150 ml/t dose of product the emergence number was higher too, but this was statistically not proven in case of either measurement.

In case of the plant height the 600 ml/t dose of the product resulted significantly higher plant height compared to the untreated control in case of both measuring time. (during the 4th week after the treatment and at the beginning of the inflorescens).

In point of the head diameter the 600 ml/t dose of product caused difference compared to the control (1,8 % higher head diameter), but this was not statistically proven.

The 300ml/t dose of product increased the achenes weight per head by 9,7 %, but the difference was not significant.

Every dose of product caused the increase of the average yield, the 150 ml/t dose of product resulted 1,5% higher yield average, the 300 ml/t of product resulted 6,1% higher yield average, the 600 ml/t dose of product resulted 24,9% higher yield average, the latter is statistically proven.

The 300 ml/t dose of product Albit resulted 2,9 % higher kernel weight compared to the untreated control, but the result was not significant.

None of the doses of the product caused significantly higher oil content.

The beneficial effect of product Albit was observed in cases of each measured parameter. From among the applied dose the 300ml/t and the 600ml/t was the most effective.

By the results of the trial the product Albit is recommended for authorization.

Szolnok, 30 November 2017



Holló László

Head of department/Principal investigator

10. Results, table and statistical analyses, annexes:

10.1. The effect of product on the measured parameters:

1. table: Effect of product Albit on germ number, plant height and head diameter

| | Replicates | Germ number (germs/5m) 05.10. | Germ number (germs/5m) 05.26. | Plant height (cm) 05.16. | Plant height (cm) 07.07. | Head diameter (cm) 08.07. |
|----------------------|------------|-------------------------------------|-------------------------------------|--------------------------------|-----------------------------|---------------------------------|
| 1. Untreated control | I. | 18,4 | 19,8 | 10,5 | 62,7 | 20,6 |
| | II. | 19,0 | 20,0 | 9,8 | 58,1 | 20,2 |
| | III | 18,6 | 20,6 | 9,9 | 58,5 | 20,1 |
| | IV. | 17,2 | 18,4 | 9,1 | 54,5 | 20,4 |
| | V. | 18,8 | 20,4 | 10,2 | 62,2 | 20,5 |
| | VI. | 19,0 | 20,2 | 10,1 | 58,5 | 18,8 |
| | Average | 18,5 | 19,9 | 9,9 | 59,1 | 20,1 |
| 2. Albit 150 ml/t | I. | 18,8 | 20,0 | 10,0 | 63,7 | 19,4 |
| | II. | 19,4 | 20,2 | 8,1 | 52,3 | 19,3 |
| | III | 18,8 | 20,9 | 8,4 | 51,1 | 19,1 |
| | IV. | 17,0 | 18,4 | 8,8 | 54,4 | 19,7 |
| | V. | 18,6 | 20,2 | 8,9 | 54,3 | 20,3 |
| | VI. | 19,2 | 20,4 | 10,8 | 56,2 | 18,8 |
| | Average | 18,6 | 20,0 | 9,2 | 55,3 | 19,4 |
| 3. Albit 300 ml/t | I. | 20,4 | 21,0 | 10,6 | 59,3 | 20,4 |
| | II. | 20,0 | 21,0 | 9,6 | 54,1 | 19,6 |
| | III | 19,2 | 20,7 | 9,3 | 53,2 | 19,2 |
| | IV. | 17,4 | 19,4 | 10,0 | 54,6 | 18,7 |
| | V. | 18,8 | 19,8 | 10,3 | 55,5 | 20,1 |
| | VI. | 19,2 | 21,0 | 10,2 | 56 | 20,1 |
| | Average | 19,17 | 20,5 | 10,0 | 55,5 | 19,7 |
| 4. Albit 600 ml/t | I. | 19,8 | 21,0 | 10,9 | 62,4 | 21,3 |
| | II. | 20,0 | 21,2 | 11,0 | 65,3 | 20,5 |
| | III | 19,4 | 20,6 | 11,2 | 68,1 | 20,7 |
| | IV. | 17,6 | 19,8 | 9,7 | 62,2 | 20,4 |
| | V. | 19,6 | 20,4 | 11,1 | 67,8 | 20,2 |
| | VI. | 19,4 | 20,6 | 10,5 | 63,9 | 19,7 |
| | Average | 19,3 | 20,6 | 10,7 | 65,0 | 20,5 |

2. table: Effect of product Albit on achenes weight per head, average yield, kernel weight and oil content

| | Replicates | Achenes weight per head (gramm/head) 09.19. | Average yield (kg/ha) 09.19. | Average yield (t/ha) 09.19. | EMT (gramm) 09.19. | Oil content (% m/m) 10.03. |
|-------------------------|----------------|---|------------------------------|-----------------------------|--------------------|----------------------------|
| 1. Untreated control | I. | 87,5 | 3253,3 | 3,3 | 27,6 | 45,6 |
| | II. | 76,1 | 3333,3 | 3,3 | 25,4 | |
| | III | 78,1 | 2888,8 | 2,9 | 28,8 | 47,4 |
| | IV. | 61,7 | 1520 | 1,5 | 29,6 | |
| | V. | 64,2 | 3324,4 | 3,3 | 27,7 | 46,9 |
| | VI. | 70,5 | 2648,8 | 2,6 | 25,0 | |
| | Average | 73,0 | 2828,1 | 2,8 | 27,4 | 46,6 |
| 2. Albit 150 ml/t | I. | 68,1 | 3555,5 | 3,6 | 27,2 | 45,9 |
| | II. | 76,1 | 2942,2 | 2,9 | 25,0 | |
| | III | 75,0 | 2764,4 | 2,8 | 28,0 | 44,0 |
| | IV. | 27,2 | 2408,8 | 2,4 | 26,2 | |
| | V. | 69,0 | 3253,3 | 3,3 | 23,7 | 46,0 |
| | VI. | 46,1 | 2293,3 | 2,3 | 26,2 | |
| | Average | 60,3 | 2869,6 | 2,9 | 26,0 | 45,3 |
| 3. Albit 300 ml/t | I. | 89,7 | 3128,8 | 3,1 | 31,3 | 43,3 |
| | II. | 85,9 | 2755,5 | 2,8 | 28,6 | |
| | III | 76,2 | 2933,3 | 2,9 | 29,1 | 44,7 |
| | IV. | 78,3 | 3066,6 | 3,1 | 28,4 | |
| | V. | 86,6 | 3048,8 | 3,0 | 26,9 | 44,6 |
| | VI. | 63,9 | 3066,6 | 3,1 | 24,5 | |
| | Average | 80,1 | 2999,93 | 3,0 | 28,1 | 44,2 |
| 4. Albit 600 ml/t | I. | 82,4 | 3680 | 3,7 | 27,6 | 48,4 |
| | II. | 75,3 | 3608,8 | 3,6 | 27,9 | |
| | III | 77,3 | 3688,8 | 3,7 | 28,5 | 45,4 |
| | IV. | 67,6 | 3391,1 | 3,4 | 27,0 | |
| | V. | 73,0 | 3431,1 | 3,4 | 27,1 | 46,5 |
| | VI. | 56,5 | 3391,1 | 3,4 | 24,0 | |
| | Average | 72,0 | 3531,81 | 3,5 | 27,0 | 46,8 |

10.2. The statistical evaluation of the results:

Effect of product Albit on emergence number during the 2nd week after sowing

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average db/5 m | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|-------------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 18,4 | 19 | 18,6 | 17,2 | 18,8 | 19 | 18,5 | 100 |
| 2 | Albit | 150 | 18,8 | 19,4 | 18,8 | 17 | 18,6 | 19,2 | 18,63 | 100,7 |
| 3 | Albit | 300 | 20,4 | 20 | 19,2 | 17,4 | 18,8 | 19,2 | 19,17 | 103,6 |
| 4 | Albit | 600 | 19,8 | 20 | 19,4 | 17,6 | 19,6 | 19,4 | 19,3 | 104,3 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|-------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 17,92 | | | | | | |
| Replicate | 13,42 | 5 | | | 5,42 | 1% | 0,58 |
| Treatment | 2,773 | 3 | 0,9244 | 8,03 | 3,29 | 5% | 0,42 |
| Error | 1,727 | 15 | 0,1151 | | 2,49 | 10% | 0,34 |

F-test: P1% signifikant

Effect of the product Albit on emergence number during the 2nd week

Evaluation
 Date of assessment: 10 May 2017 Growth stages: cotyledon - 2 leaf stages
 Mode of assessment: Counting

TABLE OF RESULTS

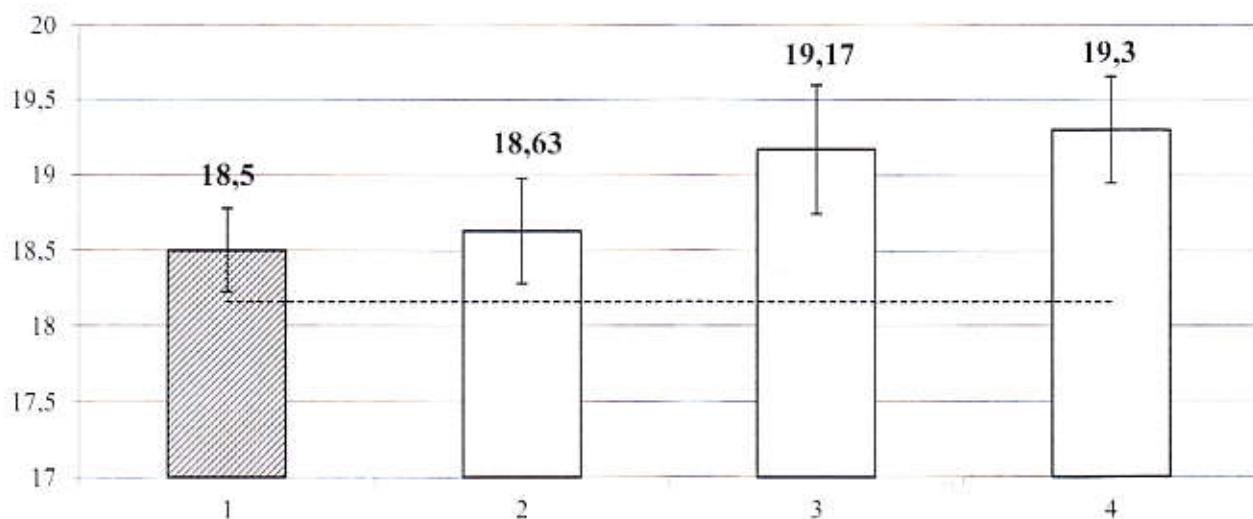
| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average db/5 m | Control 100% |
|--------------------|---------------------|------------|--------------------|-------------------|----------------|--------------|
| 1 | Kezeletlen kontroll | | | BBCH 00 | 18,50 | 100 |
| 2 | Albit | 150 | 26.04.2017 | BBCH 00 | 18,63 | 100,7 |
| 3 | Albit | 300 | 26.04.2017 | BBCH 00 | 19,17 | 103,6 |
| 4 | Albit | 600 | 26.04.2017 | BBCH 00 | 19,3 | 104,3 |
| <i>SzD10% = *</i> | | | | | | 0,34 1,86 |
| <i>SzD5% = **</i> | | | | | | 0,42 2,26 |
| <i>SzD1% = ***</i> | | | | | | 0,58 3,12 |

CV= 1,8 %

Emergence number

Plant/5 m

P=10%



Effect of the product Albit on emergence number during the 4th week

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average db/5 m | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|-------------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 19,8 | 20 | 20,6 | 18,4 | 20,4 | 20,2 | 19,9 | 100 |
| 2 | Albit | 150 | 20 | 20,2 | 20,9 | 18,4 | 20,2 | 20,4 | 20,02 | 100,6 |
| 3 | Albit | 300 | 21 | 21 | 20,7 | 19,4 | 19,8 | 21 | 20,48 | 102,9 |
| 4 | Albit | 600 | 21 | 21,2 | 20,6 | 19,8 | 20,4 | 20,6 | 20,6 | 103,5 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|-------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 12,52 | | | | | | |
| Replicate | 8,08 | 5 | | | 5,42 | 1% | 0,67 |
| Treatment | 2,123 | 3 | 0,7078 | 4,58 | 3,29 | 5% | 0,48 |
| Error | 2,317 | 15 | 0,1544 | | 2,49 | 10% | 0,4 |

F-test: P5% signifikant

Effect of the product Albit on emergence number during the 4th week

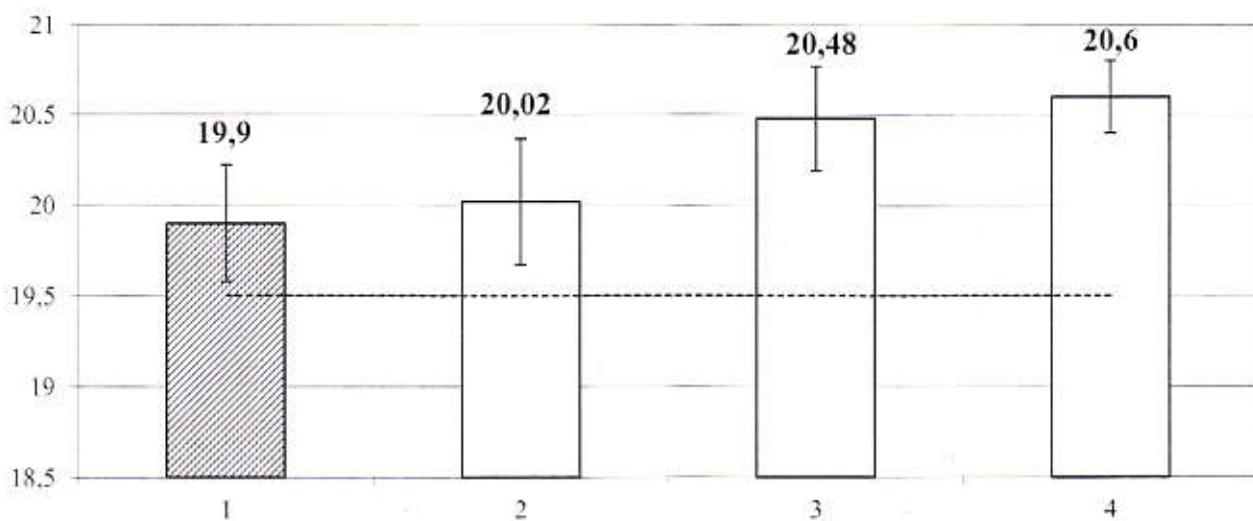
Date of evaluation: 26 May 2017 Growth stages: 2-4 leaf stages
 Mode of evaluation: Counting

TABLE OF RESULTS

| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average db/5 m | Control 100% | |
|-----|---------------------|------------|--------------------|-------------------|----------------|--------------|-----|
| 1 | Kezeletlen kontroll | | | BBCH00 | 19,90 | 100 | |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 20,02 | 100,6 | ** |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 20,48 | 102,9 | |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 20,6 | 103,5 | *** |
| | SzD10%=:* | | | | 0,4 | 2 | |
| | SzD5%=:** | | | | 0,48 | 2,43 | |
| | SzD1%=:*** | | | | 0,67 | 3,36 | |

CV= 1,94 %

Emergence number
 Plant/5 m P=10%



Effect of the product Albit on plant height during the 4th week

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average cm | Control 100% |
|-----|---------------------|---------------|------------|-----|------|-----|------|------|---------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 10,5 | 9,8 | 9,9 | 9,1 | 10,2 | 10,1 | 9,93 | 100 |
| 2 | Albit | 150 | 10 | 8,1 | 8,4 | 8,8 | 8,9 | 10,8 | 9,17 | 92,3 |
| 3 | Albit | 300 | 10,6 | 9,6 | 9,3 | 10 | 10,3 | 10,2 | 10 | 100,7 |
| 4 | Albit | 600 | 10,9 | 11 | 11,2 | 9,7 | 11,1 | 10,5 | 10,73 | 108,1 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|--------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 16,518 | | | | | | |
| Replicate | 4,023 | 5 | | | 5,42 | 1% | 0,99 |
| Treatment | 7,378 | 3 | 2,4594 | 7,21 | 3,29 | 5% | 0,72 |
| Error | 5,117 | 15 | 0,3411 | | 2,49 | 10% | 0,59 |

F-test: P1% signifikant

Effect of the product Albit on emergence number during the 4th week

Date of assessment: 16 May 2017 Evaluation
 Mode of assessment: Measure Growth stages 2-4 leaves

TABLE OF RESULTS

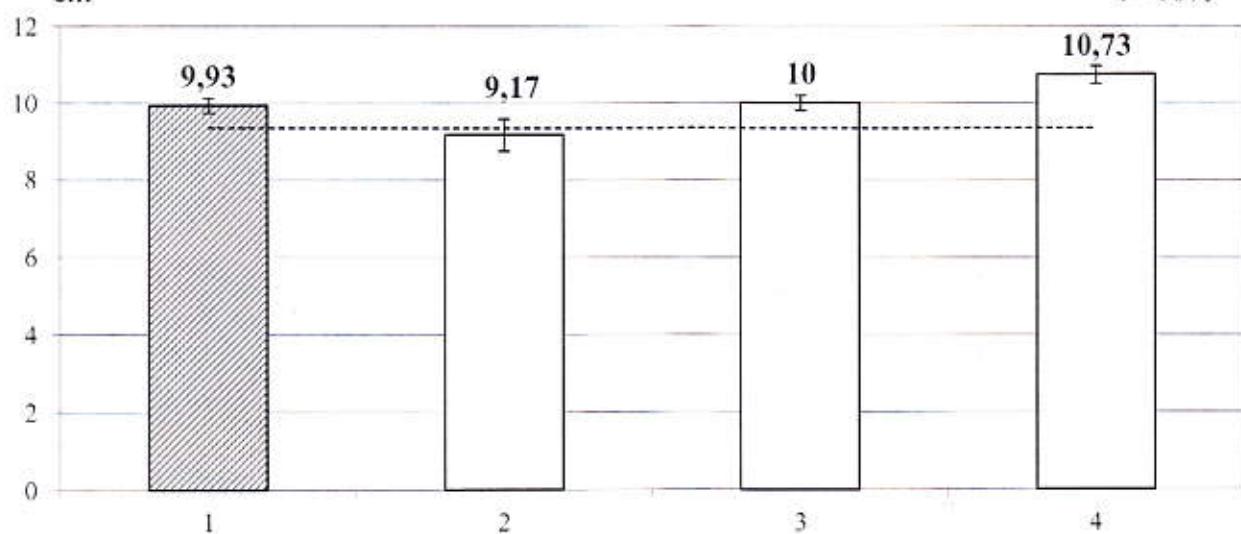
| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average cm | Control 100% | |
|--------------------|---------------------|------------|--------------------|-------------------|------------|--------------|------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 9,93 | 100 | |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 9,17 | 92,3 | ** |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 10 | 100,7 | |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 10,73 | 108,1 | ** |
| <i>SzD10% = *</i> | | | | | | 0,59 | 5,95 |
| <i>SzD5% = **</i> | | | | | | 0,72 | 7,24 |
| <i>SzD1% = ***</i> | | | | | | 0,99 | 10 |

CV= 5,86 %

Plant height

cm

P=10%



Effect of the product Albit on plant height at the beginning of inflorescens

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average cm | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|---------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 62,7 | 58,1 | 58,5 | 54,5 | 62,2 | 58,5 | 59,08 | 100 |
| 2 | Albit | 150 | 63,7 | 52,3 | 51,1 | 54,4 | 54,3 | 56,2 | 55,33 | 93,7 |
| 3 | Albit | 300 | 59,3 | 54,1 | 53,2 | 54,6 | 55,5 | 56 | 55,45 | 93,9 |
| 4 | Albit | 600 | 62,4 | 65,3 | 68,1 | 62,2 | 67,8 | 63,9 | 64,95 | 109,9 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|---------|----|----------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 567,97 | | | | | | |
| Replicate | 81,237 | 5 | | | 5,42 | 1% | 4,81 |
| Treatment | 366,638 | 3 | 122,2126 | 15,26 | 3,29 | 5% | 3,48 |
| Error | 120,095 | 15 | 8,0063 | | 2,49 | 10% | 2,86 |

F-test: P1% signifikant

Effect of the product Albit on plant height at the beginning of inflorescens

| | | | |
|---------------------|-------------|---------------------------|---------------------------|
| Date of assessment: | 7 July 2017 | Evaluation Growth stages: | Beginning of inflorescens |
| Mode of assessment: | Measure | | |

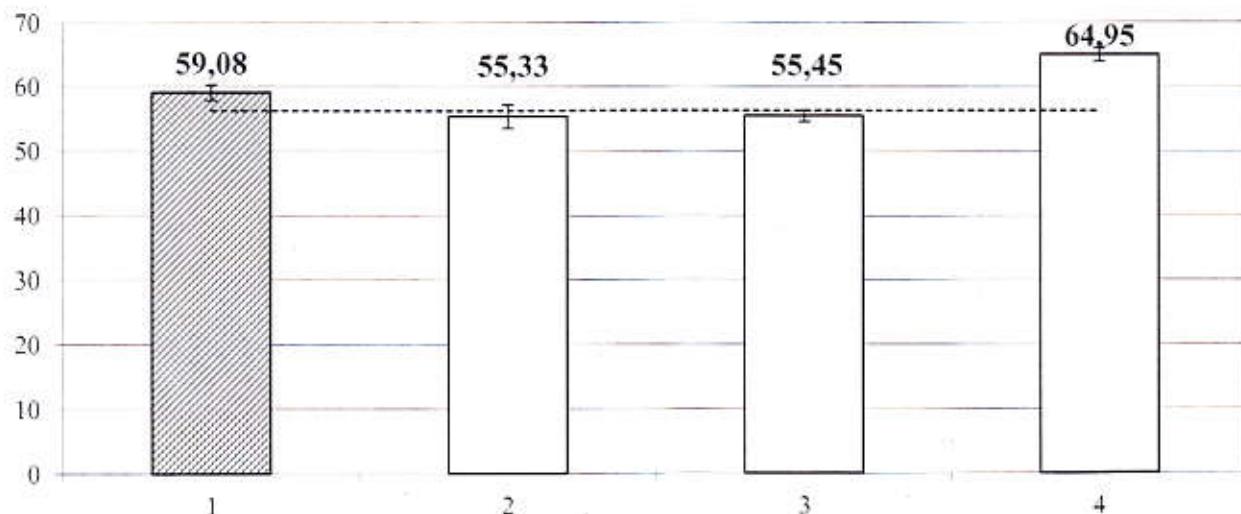
TABLE OF RESULTS

| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average cm | Control 100% |
|--------------------|---------------------|------------|--------------------|-------------------|------------|--------------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 59,08 | 100 |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 55,33 | 93,7 |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 55,45 | 93,9 |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 64,95 | 109,9 |
| <i>SzD10% = *</i> | | | | | 2,86 | 4,85 |
| <i>SzD5% = **</i> | | | | | 3,48 | 5,89 |
| <i>SzD1% = ***</i> | | | | | 4,81 | 8,15 |

CV= 4,82 %

Plant height
cm

P=10%



Effect of product Albit on head diameter

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average cm | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|---------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 20,6 | 20,2 | 20,1 | 20,4 | 20,5 | 18,8 | 20,1 | 100 |
| 2 | Albit | 150 | 19,4 | 19,3 | 19,1 | 19,7 | 20,3 | 18,8 | 19,43 | 96,7 |
| 3 | Albit | 300 | 20,4 | 19,6 | 19,2 | 18,7 | 20,1 | 20,1 | 19,68 | 97,9 |
| 4 | Albit | 600 | 21,3 | 20,5 | 20,7 | 20,4 | 20,2 | 19,7 | 20,47 | 101,8 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|-------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 10,78 | | | | | | |
| Replicate | 2,967 | 5 | | | 5,42 | 1% | 0,89 |
| Treatment | 3,745 | 3 | 1,2482 | 4,6 | 3,29 | 5% | 0,64 |
| Error | 4,068 | 15 | 0,2712 | | 2,49 | 10% | 0,53 |

F-test: P5% signifikant

Effect of product Albit on head diameter

Date of assessment: 7 August 2017 Evaluation
 Mode of assessment: Measure Growth stages: Seed formation

TABLE OF RESULTS

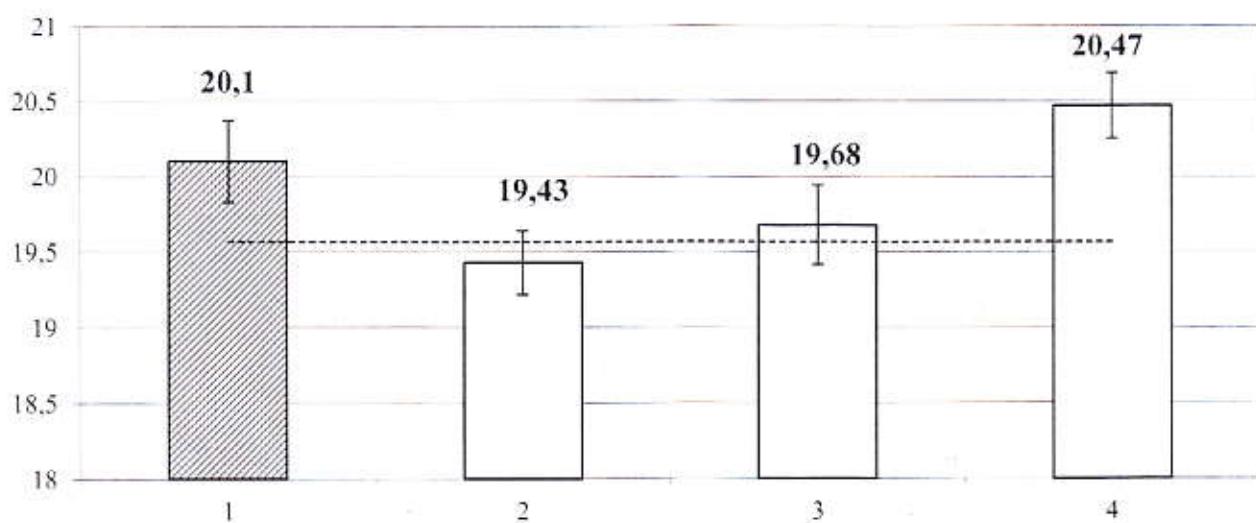
| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average cm | Control 100% |
|--------------------|---------------------|------------|--------------------|-------------------|------------|--------------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 20,10 | 100 |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 19,43 | 96,7 |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 19,68 | 97,9 |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 20,47 | 101,8 |
| <i>SzD10% = *</i> | | | | | 0,53 | 2,62 |
| <i>SzD5% = **</i> | | | | | 0,64 | 3,19 |
| <i>SzD1% = ***</i> | | | | | 0,89 | 4,41 |

CV= 2,61 %

Head diameter

cm

P=10%



Effect of product Albit on achenes weight per head

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average gramm | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|------------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 87,5 | 76,1 | 78,1 | 61,7 | 64,2 | 70,5 | 73,02 | 100 |
| 2 | Albit | 150 | 68,1 | 76,1 | 75 | 27,2 | 69 | 46,1 | 60,25 | 82,5 |
| 3 | Albit | 300 | 89,7 | 85,9 | 76,2 | 78,3 | 86,6 | 63,9 | 80,1 | 109,7 |
| 4 | Albit | 600 | 82,4 | 75,3 | 77,3 | 67,6 | 73 | 56,5 | 72,02 | 98,6 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|----------|----|----------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 4431,4 | | | | | | |
| Replicate | 1995,102 | 5 | | | 5,42 | 1% | 15,33 |
| Treatment | 1217,968 | 3 | 405,9893 | 5 | 3,29 | 5% | 11,09 |
| Error | 1218,33 | 15 | 81,222 | | 2,49 | 10% | 9,12 |

F-test: P5% signifikant

Effect of product Albit on achenes weight per head

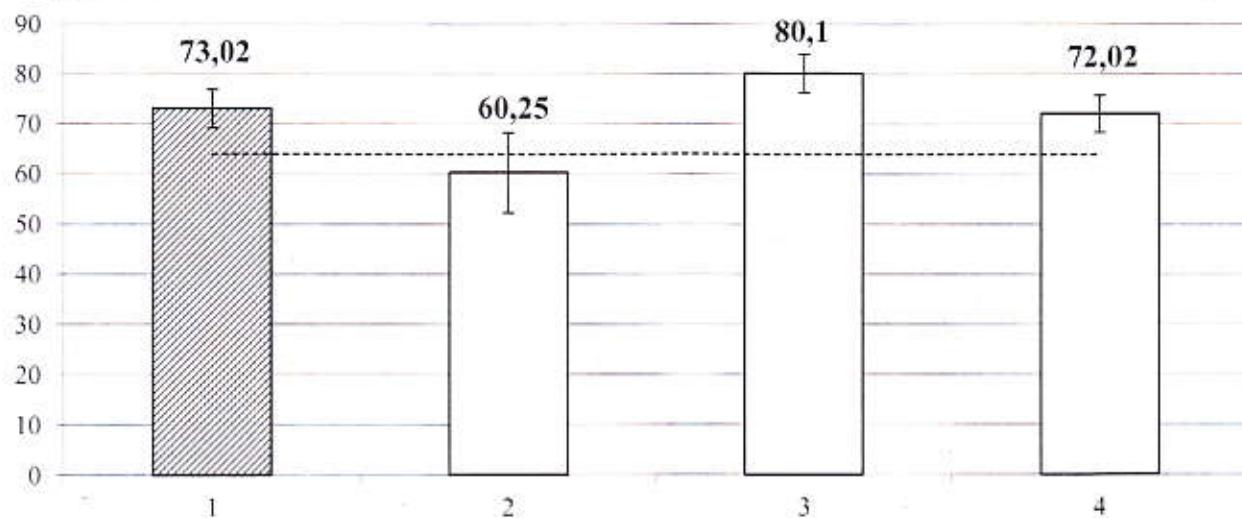
Date of assessment: 19 September 2017 Evaluation Growth stages: Harvested crop
Mode of assessment: Measure

TABLE OF RESULTS

| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average gramm | Control 100% |
|--------------------|---------------------|------------|--------------------|-------------------|---------------|--------------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 73,02 | 100 |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 60,25 | 82,5 |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 80,1 | 109,7 |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 72,02 | 98,6 |
| <i>SzD10% = *</i> | | | | | 9,12 | 12,49 |
| <i>SzD5% = **</i> | | | | | 11,09 | 15,19 |
| <i>SzD1% = ***</i> | | | | | 15,33 | 21 |

CV= 12,63 %

Achenes weight per head gramm P=10%



Effect of product Albit on average yield kg/ha

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average kg/ha | Control 100% |
|-----|---------------------|---------------|------------|--------|--------|--------|--------|--------|------------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 3253,3 | 3333,3 | 2888,8 | 1520 | 3324,4 | 2648,8 | 2828,1 | 100 |
| 2 | Albit | 150 | 3555,5 | 2942,2 | 2764,4 | 2408,8 | 3253,3 | 2293,3 | 2869,6 | 101,5 |
| 3 | Albit | 300 | 3128,8 | 2755,5 | 2933,3 | 3066,6 | 3048,8 | 3066,6 | 2999,9 | 106,1 |
| 4 | Albit | 600 | 3680 | 3608,8 | 3688,8 | 3391,1 | 3431,1 | 3391,1 | 3531,8 | 124,9 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|-------------|----|-------------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 5699483,858 | | | | | | |
| Replicate | 1717016,503 | 5 | | | 5,42 | 1% | 634,3 |
| Treatment | 1897363,048 | 3 | 632454,3494 | 4,55 | 3,29 | 5% | 458,81 |
| Error | 2085104,307 | 15 | 139006,9538 | | 2,49 | 10% | 377,36 |

F-test: P5% signifikant

Effect of product Albit on Average yield kg/ha

Date of assessment: 19 September 2017 Evaluation Growth stages:
 Mode of assessment: Measure Harvested crop

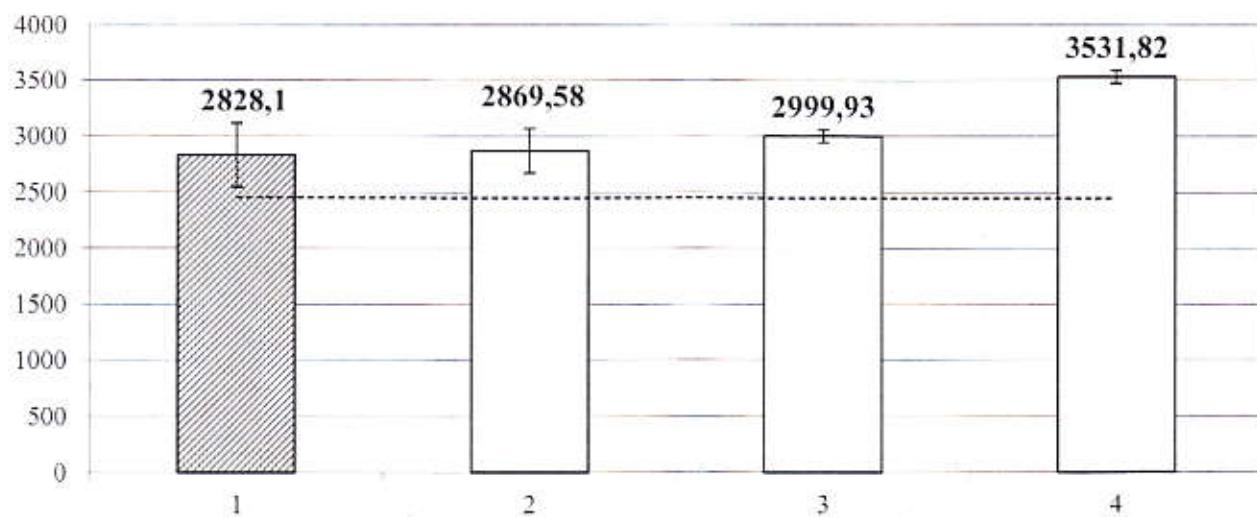
TABLE OF RESULTS

| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average kg/ha | Control 100% | |
|-----|---------------------|------------|--------------------|-------------------|---------------|--------------|-----|
| 1 | Kezeletlen kontroll | | | BBCH00 | 2828,10 | 100 | |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 2869,58 | 101,5 | |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 2999,93 | 106,1 | |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 3531,82 | 124,9 | *** |
| | <i>SzD10% = *</i> | | | | 377,36 | 13,34 | |
| | <i>SzD5% = **</i> | | | | 458,81 | 16,22 | |
| | <i>SzD1% = ***</i> | | | | 634,3 | 22,43 | |

CV= 12,19 %

Average yield
 kg/ha

P=10%



Effect of product Albit on average yield t/ha

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average t/ha | Control 100% |
|-----|---------------------|---------------|------------|-----|-----|-----|-----|-----|-----------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 3,3 | 3,3 | 2,9 | 1,5 | 3,3 | 2,6 | 2,82 | 100 |
| 2 | Albit | 150 | 3,6 | 2,9 | 2,8 | 2,4 | 3,3 | 2,3 | 2,88 | 102,4 |
| 3 | Albit | 300 | 3,1 | 2,8 | 2,9 | 3,1 | 3 | 3,1 | 3 | 106,5 |
| 4 | Albit | 600 | 3,7 | 3,6 | 3,7 | 3,4 | 3,4 | 3,4 | 3,53 | 125,4 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|-------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 5,858 | | | | | | |
| Replicate | 1,733 | 5 | | | 5,42 | 1% | 0,65 |
| Treatment | 1,908 | 3 | 0,6361 | 4,3 | 3,29 | 5% | 0,47 |
| Error | 2,217 | 15 | 0,1478 | | 2,49 | 10% | 0,39 |

F-test: P5% signifikant

Effect of product Albit on average yield t/ha

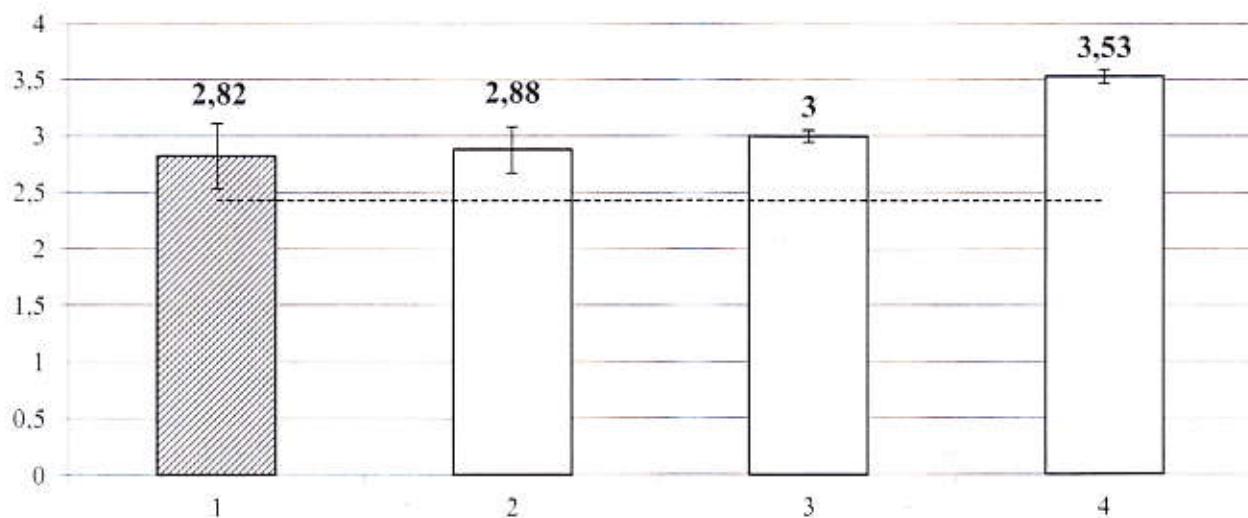
| | | | |
|---------------------|-------------------|---------------------------|----------------|
| Date of assessment: | 19 September 2017 | Evaluation Growth stages: | Harvested crop |
| Mode of assessment: | Measure | | |

TABLE OF RESULTS

| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average t/ha | Control 100% | |
|-----|---------------------|------------|--------------------|-------------------|--------------|--------------|-----|
| 1 | Kezeletlen kontroll | | | BBCH00 | 2,82 | 100 | |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 2,88 | 102,4 | |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 3 | 106,5 | |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 3,53 | 125,4 | *** |
| | <i>SzD10% = *</i> | | | | 0,39 | 13,81 | |
| | <i>SzD5% = **</i> | | | | 0,47 | 16,8 | |
| | <i>SzD1% = ***</i> | | | | 0,65 | 23,22 | |

CV= 12,57 %

Average yield t/ha P=10%



Effect of product Albit on kernel weight

TABLE OF DATA

| No. | Treatments | Dose ml/ha | Replicates | | | | | | Average gramm | Control 100% |
|-----|---------------------|---------------|------------|------|------|------|------|------|------------------|-----------------|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | | |
| 1 | Kezeletlen kontroll | | 27,6 | 25,4 | 28,8 | 29,6 | 27,7 | 25 | 27,35 | 100 |
| 2 | Albit | 150 | 27,2 | 25 | 28 | 26,2 | 23,7 | 26,2 | 26,05 | 95,2 |
| 3 | Albit | 300 | 31,3 | 28,6 | 29,1 | 28,4 | 26,9 | 24,5 | 28,13 | 102,9 |
| 4 | Albit | 600 | 27,6 | 27,9 | 28,5 | 27 | 27,1 | 24 | 27,02 | 98,8 |

ANALYSIS OF VARIANCIE

| Factors | SQ | FG | MQ | F-value | | P= | SzD value |
|-----------|--------|----|--------|---------|-------|-----|--------------|
| | | | | calc | table | | |
| All | 80,276 | | | | | | |
| Replicate | 39,684 | 5 | | | 5,42 | 1% | 2,29 |
| Treatment | 13,405 | 3 | 4,4682 | 2,47 | 3,29 | 5% | 1,66 |
| Error | 27,188 | 15 | 1,8125 | | 2,49 | 10% | 1,36 |

F-test: No signifikant

SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER

Code number: T-14-2017

Effect of product Albit on kernel weight

Date of assessment: 19.09.2017 Evaluation
 Mode of assessment: Measure with measuring instruments

TABLE OF RESULTS

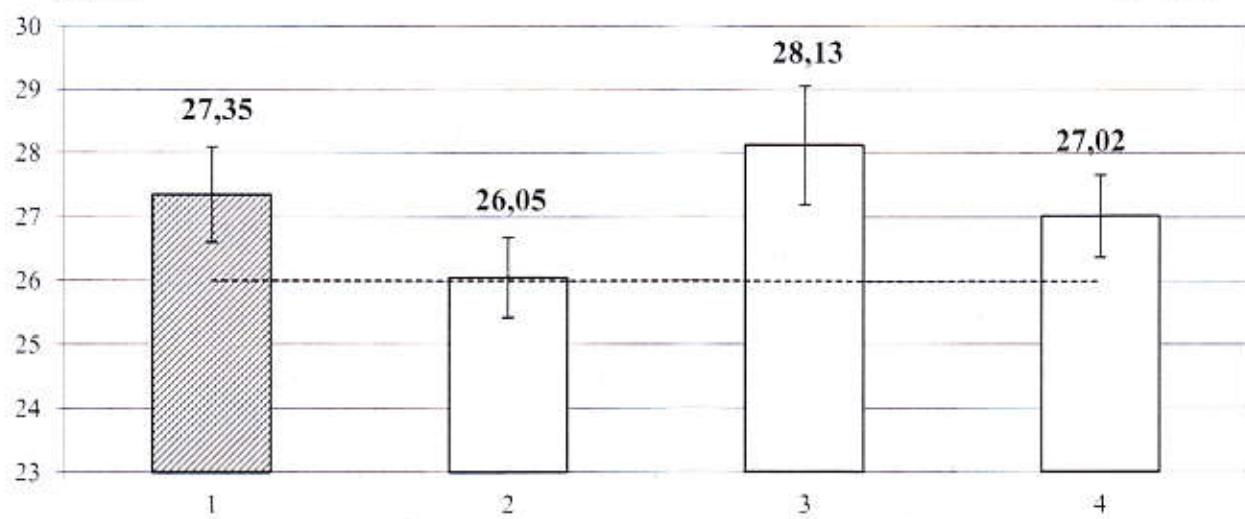
| No. | Treatments | Dose ml/ha | Date of treatments | Stage of fenologi | Average gramm | Control 100% |
|--------------------|---------------------|------------|--------------------|-------------------|---------------|--------------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 27,35 | 100 |
| 2 | Albit | 150 | 26.04.2017 | BBCH00 | 26,05 | 95,2 |
| 3 | Albit | 300 | 26.04.2017 | BBCH00 | 28,13 | 102,9 |
| 4 | Albit | 600 | 26.04.2017 | BBCH00 | 27,02 | 98,8 |
| <i>SzD10% = *</i> | | | | | | 1,36 |
| <i>SzD5% = **</i> | | | | | | 1,66 |
| <i>SzD1% = ***</i> | | | | | | 2,29 |

CV= 4,96 %

Kernel weight

gramm

P=10%



Effect of product Albit on Oil content

TABLE OF DATA

| No. | Treatments | Dose ml/t | Replicates | | | Average % m/m | Control 100% |
|-----|-------------------|--------------|------------|------|------|------------------|-----------------|
| | | | 1 | 2 | 3 | | |
| 1 | Untreated control | | 45,6 | 47,4 | 46,9 | 46,63 | 100 |
| 2 | Albit | 150 | 45,9 | 44 | 46 | 45,3 | 97,1 |
| 3 | Albit | 300 | 43,3 | 44,7 | 44,6 | 44,2 | 94,8 |
| 4 | Albit | 600 | 48,4 | 45,4 | 46,5 | 46,77 | 100,3 |

ANALYSIS OF VARIANCE

| Factors | SQ | FG | MQ | F-value | | P= | SzD-value |
|-----------|--------|----|--------|---------|--------|-----|-----------|
| | | | | cale | tablet | | |
| All | 23,342 | | | | | | |
| Replicate | 0,815 | 2 | | | 9,78 | 1% | 3,76 |
| Treatment | 13,249 | 3 | 4,4164 | 2,86 | 4,76 | 5% | 2,48 |
| Error | 9,278 | 6 | 1,5464 | | 3,29 | 10% | 1,97 |

F-test: Not significant

Effect of product Albit on oil content

Date of assessment: 3 October 2017 Evaluation
 Mode of assessment: Laboratory test Growth stages:
 Harvested crop

RESULT TABLE

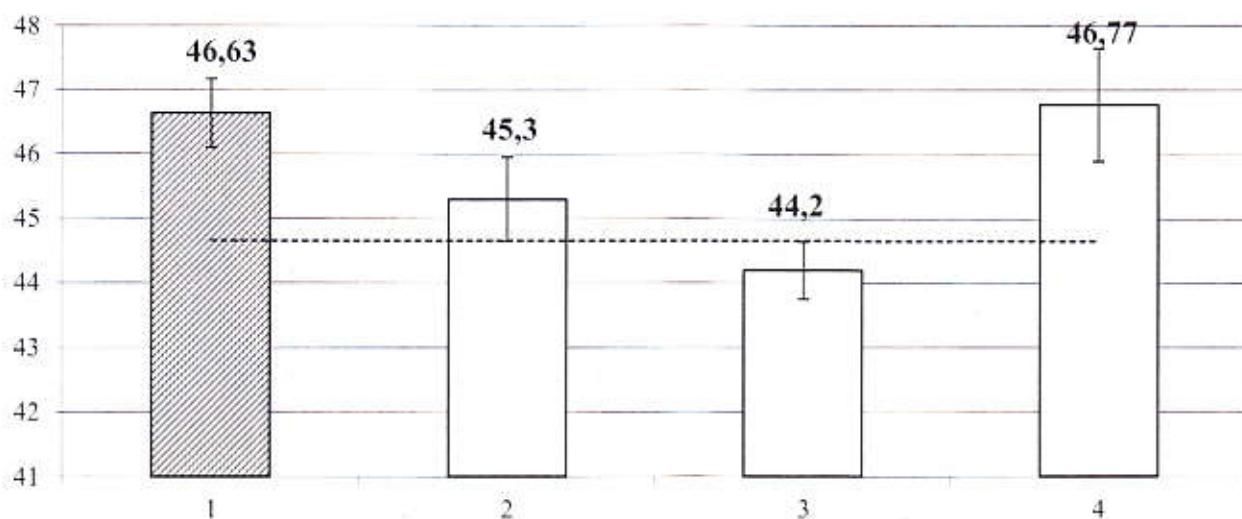
| No. | Treatments | Dose ml/t | Date of treatments | Stage of fenologi | Average % m/m | Control 100% |
|--------------------|---------------------|--------------|-----------------------|-------------------|------------------|-----------------|
| 1 | Kezeletlen kontroll | | | BBCH00 | 46,63 | 100 |
| 2 | Albit | 150 | 2017.04.26 | BBCH00 | 45,3 | 97,1 |
| 3 | Albit | 300 | 2017.04.26 | BBCH00 | 44,2 | 94,8 |
| 4 | Albit | 600 | 2017.04.26 | BBCH00 | 46,77 | 100,3 |
| <i>SzD10% = *</i> | | | | | | 1,97 |
| <i>SzD5% = **</i> | | | | | | 2,48 |
| <i>SzD1% = ***</i> | | | | | | 3,76 |

CV= 2,72 %

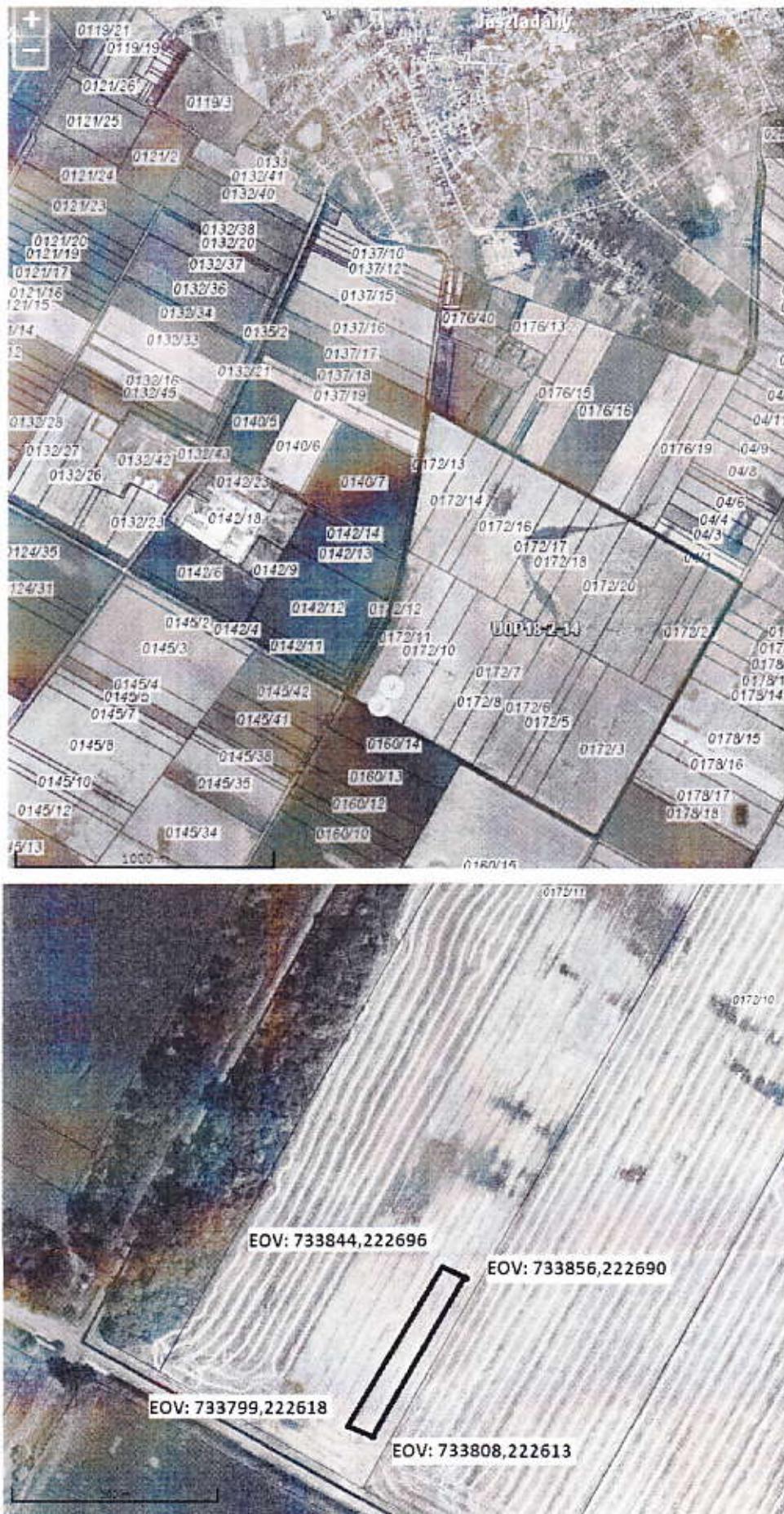
Oil content

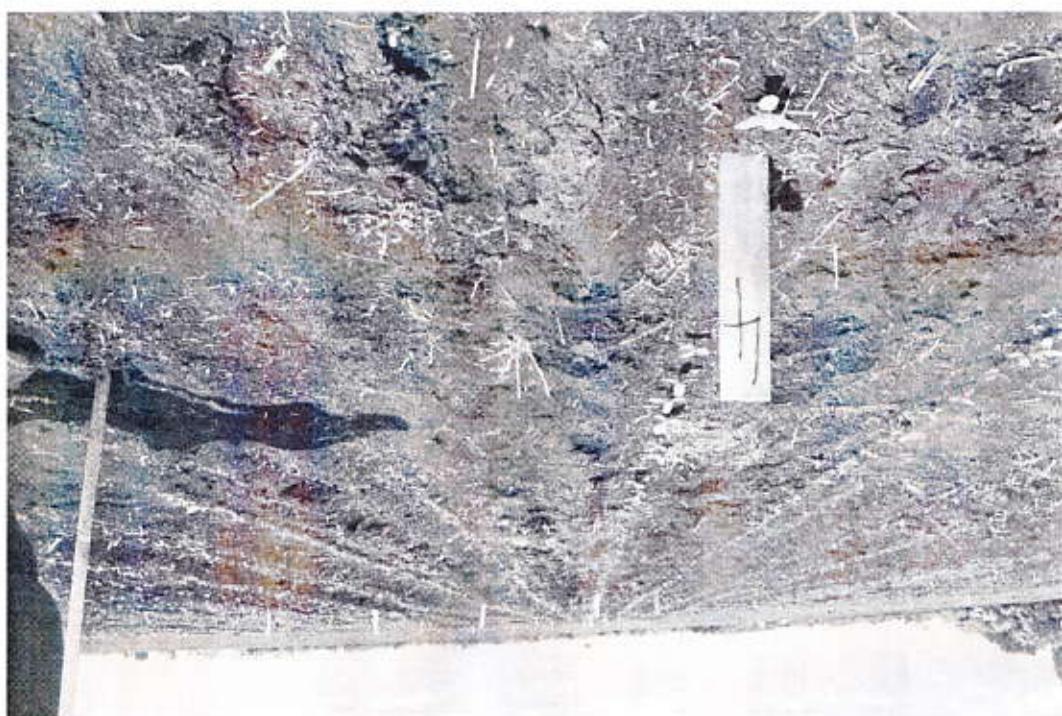
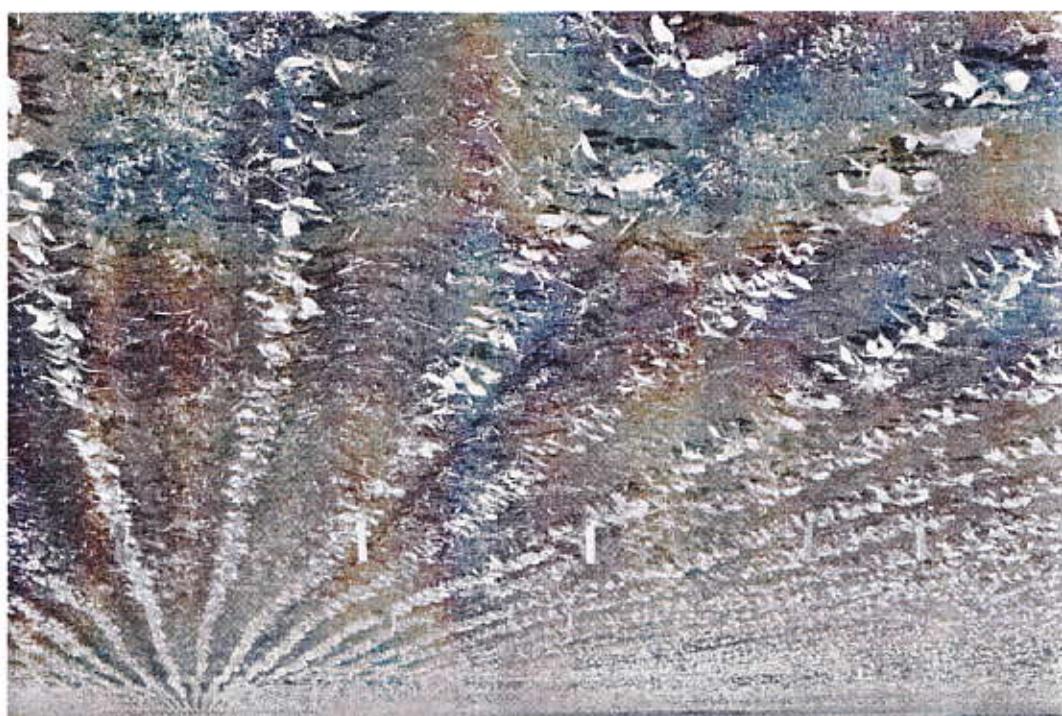
% m/m

P=10%



10.3. Location of the experimental site:





10.4. Photos made from the experiment:

SMALL PLOT STUDY OF PRODUCT ALBIT IN SUNFLOWER
Code number: T-14-2017



10.5. GEP certification:



n e b i h

Nemzetközi szolgáltató

Nemzeti Élelmiszerlánc-biztonsági Hivatal
Növény- és Talajvédelmi Osztály
Ragadóság

1118 Budapest, Bata Árpád utca 14/A-348
tel: 0691/309 1800 fax: 061/236 2332
E-mail: nembih@mtv.hu
www.nembih.hu

Iktasz.: (4-2)7459-7-2016.
Dargy.: GEP minősítés J-N-Szolnok M. Kkt. IBI MED
Ügyintéző: dr. Ripka Géza
Elérhetőség: 309-1032
Mérlekedők: -
Elr. szám: DN-11 0008-1-2016.

A Jász-Nagykun-Szolnok Megyei Kormányhivatal Élelmiszerlánc-biztonsági és Földművelésügyi Főosztály Növény- és Talajvédelmi Osztály 5000 Szolnok, Vízpart krt. 32. ügyfél (a továbbiakban: Ügyfél) által elterjesztett, Helyes Kísérleti Gyakorlatra (a továbbiakban: GEP minősítés) vonatkozó minősítés lefolytatása iránti kérelem alapján indult elsofokú eljárásban, élelmiszerlánc-felügyeleti szervként eljárva (továbbiakban: eljáró hatóság), meghoztam az alábbi

HATÁROZATOT:

Ügyfél engedélyezési célú biológiai hatásvizsgálatok elvégzésére vonatkozó GEP minősítését 5000 Szolnok, Vízpart krt. 32. szám alatt telephelyére kiadom. A GEP minősítés a határozatom jogerőre emelkedésétől számított 5 évig érvényes.

Ügyfél GEP minősítése az alábbi minősítési kategóriákra és művelési ágakra kerül kiadásra:

- *minősítési kategória: herbárirek, tanagridék és bakteriárek, zoocidák, rövidekészabályozó és termeszővelő készítmények, adalekanyagok;
- *művelési ág: szántóföld, zöldség, gyümölcs, szőlő, disznóvény, egyéb.

Jelen minősítés nem érinti a növényi fajokkal való kölcsönhatásokkal járó minősítést, amelyet előirányban előírt engedélyeket illetve Ügyfélnek az azok beszerzésére vonatkozó kötelezettségeit.

Ügyfél a vizsgálóhely minősített tevékenységét érintő jelentős változásról 15 napon belül köteles értesíteni az eljáró hatóságot.

A GEP minősítéssel kapcsolatos jogszabályokban és a jelen határozatban foglaltak betartását hatósági szűrőpróbásszerűen ellenőrzi. Amennyiben az ellenörzés során megállapítást nyer, hogy a vizsgálóhely nem tartja be a rá vonatkozó GEP-követelményeket, akkor az eljáró hatóság a határozatban feltüntetett minősített területre vonatkozó tevékenység végzését legfeljebb 2 hónapra felülgörögíti, illetve a kiadott GEP minősítését visszavonhatja.

Ha az ellenörzés során egy adott kísérlettel kapcsolatban hiányosságok kerülnek megállapításra, a kísérletet a hiányosságok mértékétől függően az eljáró hatóság kizárája az engedélyezésnél előírtak közül.

Jelen eljárási díja 250.000,- Ft (azaz Kettőszázötvenezer forint). Az illetékekrol szóló 1990. évi XCIII. törvény 5. § (1) bekezdés e) pontja alapján Ügyfél, mint költségvetési szerv teljes személyes illetékinventességbén részesül.

Jelen, a közzésselt jogerős határozatom ellen közigazgatási úton további jogorvoslatnak helye nincs, bírósági felülvizsgálat jogszabályesítésre hivatkozással kerthető a Fővárosi Közigazgatási és Munkaadó Bíróságtól. A keresetlevelet hárításához kell benyújtani a felülvizsgálati kérhetőségtől származott harmadik napra belül.

A bíróság a pénz tárgyaláson kívül bírálja el, a felek bármelyikének kerelmeire azonban tárgyalást tart. Tárgyalás tartását a keresetleivelben kerthető, errenek elindítására miatt igazolásnak nincs helye. A keresetleivel bonyolításával a döntés végrehajtására halaszott hatállyá nincs.

INDOKOLÁS

U.S. 2016, October 24, began GEP mission from Kennedy Space Center to the International Space Station.

On Oct. 22, 2016, a Russian Progress 61 cargo ship carrying supplies to the International Space Station docked at the station.

A Russian Progress 60 cargo ship carrying supplies to the International Space Station undocked from the station on Oct. 22, 2016, after a 100-day stay.

On Oct. 18, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

On Oct. 17, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

On Oct. 16, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

On Oct. 15, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

On Oct. 14, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

On Oct. 13, 2016, a Russian Progress 60 cargo ship carrying supplies to the International Space Station docked at the station.

Budapest, 2016 (December 16)



Magyar Tudományos Akadémia

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Tudományos

Académia

Magyar

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