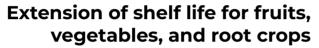


Reducing the use of nitrogenous fertilizers by 50%

## **Adjuvant helps with tasks**





Up to 20-50% additional of storage Powered by Saver



#### **Reduction in fertilizer use**

50% reduction in usage and 0,3 l replacement with Saver product

#### **Reduction in pesticide use**

50% reduction in usage and 0,3 l replacement with Saver product

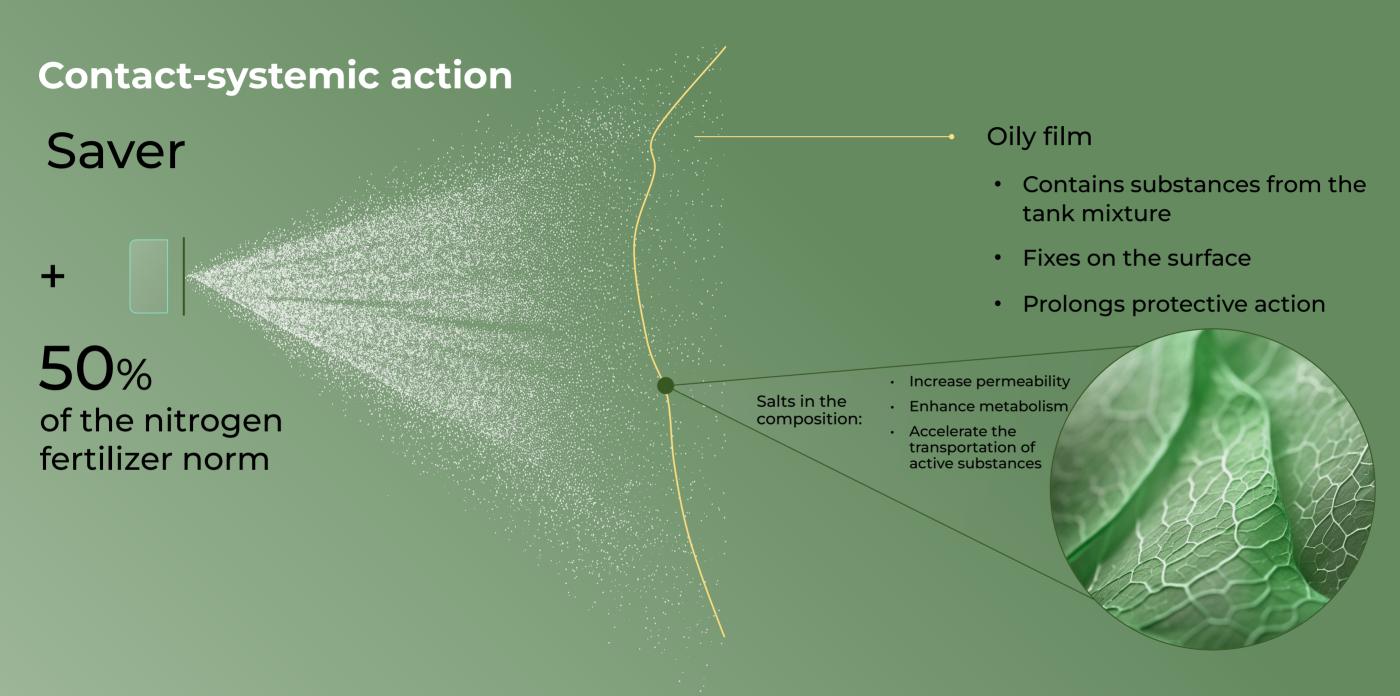
#### **Greater moisture retention**

Requires additional testing

#### Stress resistance in freezing temperatures

Requires additional testing

# How are such results achieved?



## **Bulb onion experiment**



# Control group bulb onion, 3 pieces, 15 granules of saltpeter solution, with soaking.

	Days				
Values per 5 samples	1-12	13	20	21	
	Appearance	Appearance	Appearance	Appearance	
Sprout height (cm) <sup>1</sup>	0	0,3	9,06	13,2	
Number of sprouts	0	2	2	2	
Percentage of ungerminated shoots	0	33%	33%	33%	
Relation of alive/dried	3/0	2/1	2/1	2/1	

# Processed bulb onion, 3 pieces, 7 granules of saltpeter solution + 0,5% solution Axion, with soaking.

	Days				
Values per 5 samples	1-12	13	20	21	
	Appearance	Appearance	Appearance	Appearance	
Sprout height (cm) <sup>1</sup>	0	7,4	13,2	14,65	
Number of sprouts	0	2	3	3	
Percentage of ungerminated shoots	0	0%	0%	0%	
Relation of alive/dried	3/0	3/0	3/0	3/0	



# Conclusions (Saltpeter + 0,5% Axion)

50%

Reducing the use of nitrogenous fertilizers by 50%

33%

33% more sprouts emerging

11%

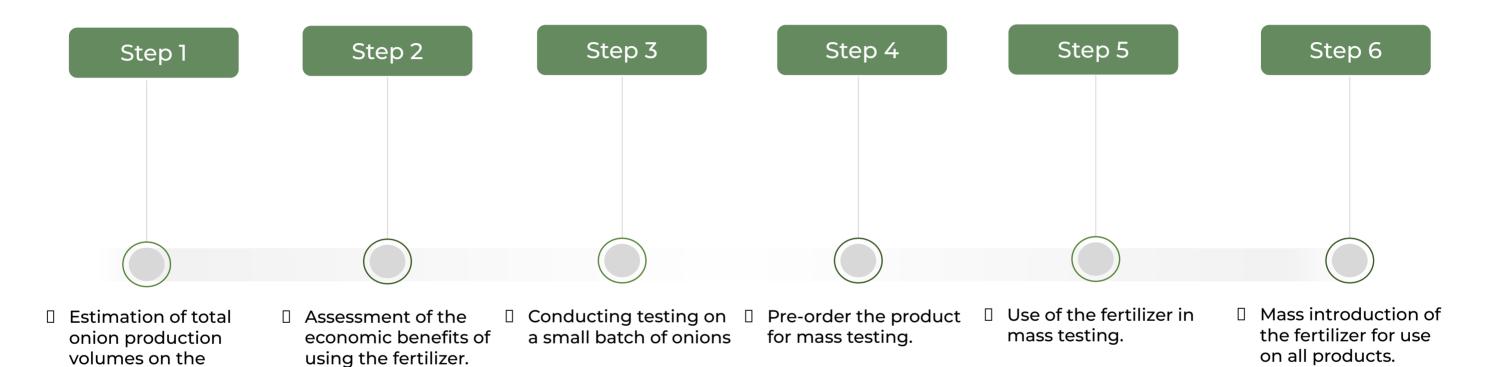
11% more green growth



### **Timeline**

farm.





## Stages of preparation













#### 1. Preparatory work:

- Election of agricultural crops for testing
- Seeds
- Division into control and experimental groups with an equal number of untreated seeds
- Preparation of uniform, universal soil without fertilizers
- Containers for sowing
- Preparation of fertilizers in calculated doses for testing in containers
- Ensure equal quantity and quality of soil and seeds everywhere, equal sowing depth, temperature, and watering (if necessary).

#### 2. Creating cards:

- Number of group
- Experiment date
- Product
- Amount of fertilizers
- Number of seeds
- Soak seeds

#### 3. Preparation of working solution:

#### Prepare two tanks with solutions: 15 granules of saltpeter solution:

Use the full calculated dose of liquid fertilizers for each container/pot, multiplied by the number of containers.

#### 15 granules of saltpeter solution + 0,5% solution Axion+:

Use 50% of the control dose of liquid fertilizers for each container, then add Axion+ in a dose of 3 ml per container, multiplied by the number of containers.

#### Calculate the required quantities:

- The area of one pot is equivalent to 0.0001 ha.
- For optimal testing, add 1 ml of Axion+ to the liquid fertilizers for each container.

#### 4. Processing methods:

#### Seed Treatment (optional):

Soak all seeds in plain water for 5 minutes (optional – this step can be skipped if needed).

#### **Application of Solution to Soil:**

Pour the prepared solution onto the soil in each container:

- Control: Apply the full dose of the liquid fertilizers for each container.
- **Experimental**: Apply the experimental solution with Axion+.

#### Sowing of Seeds:

Sow the seeds in the soil at a depth of approximately 2 cm.



7. Analysis of results and reporting:

adjusting metrics for plant germination rates and green

· Comparison of sprout growth between test and control

Reducing nitrogen fertilizer application costs and





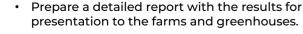
#### 6. Monitoring and data collection:

- Inspections are carried out daily.
- · To ensure standardization and convenience of the data collection process, a special application called "Checklists" is used. These checklists record the results of visual inspections of the condition of products on a daily basis, as well as other important data.



#### 5. Division into groups:

- · 2 groups of products divided according to two criteria: with and without the use of Axion+.
- Testing time: depending on the product.



mass volume.

groups.

# Reduction of nitrogen fertilizer application by 50% while maintaining or even improving plant growth performance



totaling

45,4\$

dollars per GA

**Price of Onion** 

The price per kilogram is 0,65 \$. 70 kg/GA which amounts to

24%

dollars per GA

Savings

With a preservation rate of 10,75 for GA

Saltpeter + 0,5% Axion

one ton

34,75\$

dollars per GA

**Cost of Processing** 

The processing cost is 40 dollars \* 0.3 I/GA = 12 dollars + 45,4\*50%= 22,75

## Thank you for your attention

