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FITOFERT

PRODUCTS CATALOGUE 2017



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TEN YEARS OF LOYALTY



AGRO SERVICE

In cooperation with our distributor Agromarket we offers a number of after-sales service of our customers. The service includes analyses, expertise, recommendations and is primarily focused on vegetable and fruit growers. Agronomists with years of experience in the production of vegetables and fruits, equipped with modern equipment for field testing of soil, irrigation water and plant tissues, are able to directly determine the parameters of the field on which to create recipes for plant nutrition and growing technology. Our intention is to ensure that this type of service provides our customers with the mostoptimal and most cost-effective production.

Our Agroservice offers the following: -Measurement of pH of soil and substrates, based on what is supposed to be a potential blockage of macro and micro elements, that is, their availability to cultivated crops. Establishing the EC, ie soil and irrigation water salinity. All above mentioned data, together with the analysis of soil represent important parameters which, by using an appropriate program,enable us to get proper nutrition recipes for cultivated plants.



02

03

CRYSTAL FERTILIZERS

04

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CRYSTAL NPK FERTILIZERS



A complete range of water soluble mineral fertilizers, adapted to different phenophases of plants, from rooting stage to pigmentation and ripening. Fertilizers are formulated from high purity raw materials, which provide fast and easy dissolving. They are designed for complete plant nutrition by nutritive solutions or supplementary foliar application. Applied in fertigation, working concentration is up to 0,1% (1 kg per 1000 litres of water), while in foliar application, the concentrations range from 0,3 - 0,5% (300-500 grams per 100 litres of water).

FITOFERT KRISTAL 10:40:10 is a high-phosphorus fertilizer, designed for fast and even rooting. The high level of phosphorus stimulates regular growth of the root system, and initiates formation of plant reproductive system.

FITOFERT KRISTAL 20:20:20 is a balanced formulation of NPK fertilizers. It is applied in fertigation after using starting fertilizers to stimulate flower bud formation as well as vegetative growth. In foliar nutrition, it is a universal product for treatment of numerous plant cultures.

FITOFERT KRISTAL 24:6:10 is a formulation with high nitrogen content, designed primarily for vegetative growth development. Applied in fertigation, it is mainly used for leafy vegetable crops, to stimulate vegetative growth and development. Foliar application of this fertilizer is recommended for cultures with high nitrogen assimilation, such as corn, cucumber, salads.

FITOFERT KRISTAL 4:10:40 has a high content of potassium sulphate as well as low content of nitrogen, which stimulates ripening and pigmentation of crops. The presence of sulphur makes this formulation adequate also for nutrition of onion and crucifers. It is applied in fertigation prior to beginning of pigmentation, and foliar application can occur in all cases demanding supplementary potassium.

Properties/Content %	pH 0.1%	EC-0.1%	N	N-NH ₄	N-NO ₃	N-NH ₄	P ₂ O ₅	K ₂ O	MgO	S	Fe	Mn	Zn	Cu	B	Mo
F.K. 10-40-10	4.10	0.97	10	2		8	40	10			0.04	0.04	0.015	0.015	0.02	0.02
F.K. 20-20-20	4.20	0.83	20	10.2	5.8	4	20	20			0.04	0.04	0.01		0.05	0.008
F.K. 24-6-10	3.95	1.37	24		13	11	6	10			0.04	0.04	0.015	0.015	0.02	0.008
F.K. 4-10-40	3.95	1.26	4		4		10	40	3	8	0.04	0.04	0.015	0.015	0.02	0.008



CRYSTAL NPK SPECIAL FERTIL.



A range of crystal specialised formulations, designed for complete fertigation of certain plants (fruit and vegetables), from formation and swelling of fruit to pigmentation and ripening stages. In addition to balanced NPK content and presence of micronutrients, all fertilizers in this series contain optimum quantities of magnesium (Mg) and sulphur (S), necessary for regular growth and development of fruit and vegetables. On the basis of expected yield and crop conditions, optimum fertilizer quantities are recommended. Fertilizers are applied in fertigation, through nutritive solution. The concentration in working solution is 0,1% (1 kg per 1000 litres of water).

FITOFERT KRISTAL TOMATO 12,5:6:31+4MgO+ME is a fertilizer for nutrition of tomato crops both in open and sheltered areas. Balanced ratio of micronutrients, as well as secondary magnesium enable optimum nutrition in all phenophases of growth, all the way from transplanting to ripening.

FITOFERT KRISTAL MELON 14:7:28+3.5MgO+ME is a fertilizer for nutrition of cucumber, gherkin, watermelon, melon and zucchini crops, both in open and sheltered areas. This formulation is used from blooming to harvesting.

FITOFERT KRISTAL PEPPER 11:7:33+4MgO+ME is a fertilizer for nutrition of pepper crops, both in open and sheltered areas. Balanced ratio of macronutrients, as well as secondary magnesium enable optimum nutrition in all phenophases of growth, after transplanting towards ripening. In red peppers, the formulation is applied until beginning of pigmentation.

FITOFERT KRISTAL UNIVEG 16:6:32+2MgO+ME is a universal solution for nutrition of different types of vegetable crops, mainly from types of Solinacea (tomatoes, eggplant) and other root vegetables (potatoes, carrot, beat).

FITOFERT KRISTAL BERRY 14:8:30+2MgO+ME is a fertilizer for nutrition of berries (strawberry, raspberry, blackberry, blueberry and other) both in open and sheltered areas. This formulation is fully adapted to these plant cultures, offering optimum quantities of nutrients during phases of growth, formation of fruit and ripening.

Properties/Content %	pH 0.1%	EC-0.1%	N	N-NO ₃	N-NH ₄	P ₂ O ₅	K ₂ O	MgO	S	Fe	Mn	Zn	Cu	B	Mo
FITOFET TOMATO	3.90	1.27	12.5	10	2.5	6	31	4	2.5	0.04	0.04	0.015	0.015	0.02	0.008
FITOFET MELON	3.95	1.29	14	10.5	3.5	7	28	3.5	2.5	0.04	0.04	0.015	0.015	0.05	0.008
FITOFET PEPPER	3.90	1.27	11	9.5	1.5	7	33	4	2.5	0.04	0.04	0.015	0.015	0.02	0.008
FITOFET UNIVEG	4.10	0.88	16	8	1	6	32	2		0.04	0.04	0.015	0.015	0.02	0.008
FITOFET BERRY	3.90	1.30	14	10.5	3.5	8	30	2		0.04	0.04	0.015	0.015	0.02	0.008



NPK LIQUID I N FERTILIZERS

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FITOFERT LIQUID 12:4:6

for the rapid growth

FITOFERT LIQUID 12:4:6 is a liquid foliar fertilizer based on macro and micro elements, designed for nutrition of a plant at the time of intense growth and fruit formation. It is used for nutrition in vegetable crops, orchards, vineyards and arable crops. It successfully stimulates the leaf expansion as well as forming and growth of the fruit. High concentration of urea nitrogen in synergy with microelements gives stimulating effect to the cultivated plants. The preparation is also suitable for use with foliar, selective herbicides, based on the sulfonyl-urea.

Application: foliar conc. 0.3% - 1%.

The packaging: 250 ml, 1 lit, 5 lit, and 10 lit.

Element	N	P ₂ O ₅	K ₂ O	Fe	Mn	Zn	Cu	B	Mo
Content %	12	4	6	0.02	0.02	0.007	0.007	0.01	0.004



FITOFERT CALCIUM 15

the firmness of fruits



FITOFERT CALCIUM 15 is a liquid suspension of calcium in chelated amino acids. It contains 15% CaO being completely available to plants. It is used in fruit growing, for elimination of bitter pit in pome fruit, for vegetable crops to eliminate the top of rotting fruit, and to obtain transportable fruit, suitable for multiple handling and long storage. Calcium is hardly available nutrient because due to its reactivity in ionic form it easily binds to various anions, wherein it generally inactivates. Existing fertilizers on the market generally contain calcium in ionic form, but because of the above reasons, the absorption requires high concentration of calcium in the irrigation regime in fertigation application. Calcium in **FITOFERT CALCIUM 15** is present in the form of organo-chelating agent, which makes it fully accessible to the cells of the plant.

Application: foliar conc. 0.3% - 1%.

The packaging: 250 ml, 1 lit, 5 lit, and 10 lit.

Element	N	CaO	Fe	Mn	Zn	Cu	B	Mo
Content %	8	15	0.02	0.02	0.007	0.007	0.01	0.004



BIO-STIMULATIVE FERTILIZERS

The nature needs thousands of years for soil renewal. We offer the fastest solutions.

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FITOFERT HUMISTART

for development of the root system

FITOFERT HUMISTART 4:12:5 is an organic mineral bio-stimulative feed in the form of suspension concentrate with high content of PHOSPHORUS, HUMIC, FULVIC AND AMINO acids, enriched with ALGAE extract and MICRONUTRIENTS. This preparation is an ideal solution for production of crops and early phases of plant development after transplanting, especially under stress conditions. The action mechanism of this fertilizer is based on synergy of NPK substances and present biostimulative components. These organic substances of natural origin stimulate a whole range of positive biochemical processes in plant cells, they improve feed assimilation and make crops more vital and resistant to stress and diseases.

Application: fertigation concentration 0,1 - 0,3% and foliar concentration 0,3 - 1%.

Package: 250 ml, 1 lit, 5 lit and 10 lit.

Element	N	P ₂ O ₅	K ₂ O	HA*	AA*	EA*	Fe	Mn	Zn	Cu	B	Mo
Content %	4	12	5	3	2	5	0,04	0,04	0,015	0,015	0,02	0,008

HA-Humic acid, AA-Amino acid, EA-Algae extract



FITOFERT HUMISUPER PLUS

for intensive growth



FITOFERT HUMISUPER PLUS is a new improved version of our best known liquid foliar fertilizer **FITOFERT HUMISUPER 10:5:10**. In relation to the previous preparation, the new version contains a larger number of active organic components. In addition to humic and amino acids, the product has been formulated with carbohydrates, betaines and lignosulfonates. The content of micronutrients is also higher, while the content of NPK feed is lower, which results in better dissolving of the product at low temperatures. Conducted experiments confirmed exceptional product efficiency, stress control and higher yield, which makes this preparation the best universal foliar fertilizer.

Application: foliar application combined with various preparations for plant nutrition. Applied dose per treatment is 3 - 5 litres/hectare.

Package: 250 ml, 1 lit, 5 lit and 10 lit.

Element	N	P ₂ O ₅	K ₂ O	HA*	AA*	OS*	Fe	Mn	Zn	Cu	B	Mo
Content %	8	4	8	2	2	2	0,04	0,04	0,015	0,015	0,02	0,008

HA-Humic acid, AA-Amino acid, EA-Algae extract



FITOFERT BIOFLEX-L

universal biostimulator

FITOFERT BIOFLEX-L is a new generation biostimulative fertilizer, in the form of suspension concentrate. It has been formulated from components of natural origin, algae extracts, amino and organic acids. The product is designed for foliar application and it should be applied at the beginning of vegetation and formation of fruits. It successfully neutralises or mitigates the activity of various stress factors (cold, drought, damage, pesticides). FITOFERT BIOFLEX-L activates production of plant hormones, which has a positive influence on yield, quality of the fruits, even fruit size, plant longevity and transportability.

Application: application is foliar, in fruit and vegetable crops from beginning of vegetation, every 15–20 days. In fruit, treatments after harvesting should be practised, which influence intensive differentiation of flower buds.

Applied dose per treatment is 2-3 lit/ha.

Package: 250 ml, 1 lit, 5 lit

Element	N	K ₂ O	C
Content %	3	4	4

FITOFERT BIOFLEX-P

universal biostimulator



FITOFERT BIOFLEX-P is a new generation biostimulative fertilizer, in the form of water soluble powder. Like liquid FITOFERT BIOFLEX-L, this product is characterised by expressive synergy of active substances, resulting in higher yield, better quality and even sized fruits. Contrary to liquid product, this preparation has been designed primarily for fertigation, when it is not advisable to use the liquid foliar. It successfully neutralises or relieves symptoms of different stress factors (cold, drought, damage, pesticides).

Application: fertigation in fruit and vegetable crops from beginning of vegetation, every 15 – 20 days.

Quantity per applied treatment 1 – 1,5 kg/ha.

Package: 200 g and 1kg.



Element	N	K ₂ O	C
Content %	2	15	8





FITOFERT SPEED

for corn crops

FITOFERT SPEED is a preparation designed primarily for treatment of corn crops. Its active organic components, together with B and Zn, have a favourable effect on the following physiological processes: higher resistance to stress, stimulation of the root system growth, intensified metabolism, feed assimilation, intensified photosynthesis. In addition to organic substances, microelement zinc affects nitrogen absorption and metabolism, while boron affects the growth of pollen grains and fertilization.

Application: application is foliar, repeated two to three times, in the following development stages: V1-V3 (4-8 leaves) - 2,5 lit/ha, V5-V7 (12-16 leaves) - 2,5 lit/ha, VT (prior to tasseling stage, using high clearance sprayers) - 3,5 lit/ha. This preparation is used in combination with plant protection products.

Package: 250 ml, 1 lit, 5 lit and 10 lit.

Element	N	K ₂ O	OS*	AA*	Zn	B
Content %	5	2	11	2	0.5	0.5

AA-Amino-acid, OS-Oligo Saccharides



HUMIC AND FULVIC PRODUCTS



The line of products with the high content of HUMIC and FULVIC acid is intended for soil fertility improvement. The product is mostly suitable for soil with low organic matter content, light soil, greenhouses with long period crop production. Humic and Fulvic acid in soil play an important role in trace elements chelation, phosphorus absorption, beneficial bacteria stimulation, and other nutrient assimilation. They stimulate development and growth, improve pigment forming, decrease stress caused by different factors: transplanting, cold weather, drought, pesticide treatment, etc.

FITOFERT FULVIMAX 80 is a product formulated in the form of water soluble powder, with the high content of Fulvic acid. Applicable in the stage of early growth and root development.

Application: Fertigation 3 to 5 kg/ha or foliar spray with concentration 0,1 to 0,2%.

FITOFERT HUMIFLEX 24 is a highly concentrated liquid product with the dominant content of Humic acid. The product is applicable after root development, periodically every 20 to 30 days.

Application: 10 - 20 lit/ha per year in 2 to 3 treatment (5 to 10 lit/ha/ treatment) or foliar spray in concentration 0,1 to 0,2%.

FITOFERT HUMIMAX 80 is a highly concentrated water soluble powder product with the dominant content of Humic acid. The product is applicable after root development, periodically every 20 to 30 days.

Application: 5 - 10 kg/ha per year in 2 to 3 treatment (2 to 3 kg/ha/ treatment) or foliar spray in concentration 0,05 to 0,1%.

Element	Ekstrakt humusa	Huminske kiseline	Fulvinske kiseline	Vodorastvorni K ₂ O
FITOFERT FULVIMAX 80	80	10	70	
FITOFERT HUMIFLEX 24	24	16	8	1,5
FITOFERT HUMIMAX 80	80	50	30	5





FITOFERT AMINOMAX 80

biostimulator



FITOFERT AMINOMAX 80 is a fertilizer in the form of water soluble powder, with high content of essential L-amino acids, designed for successful defence against stress conditions as well as for plant recovery from stress conditions, caused by high or low temperatures. The product has been formulated from amino acids (L-isomer) of plant origin, provided by enzymatic hydrolysis. Positive effects of amino acid activity are multiple: chelation of micronutrients and their more intensive transport through conducting vessels, synthesis of phytohormones, pollination and fertilization. It should be used before appearance of stress condition. The product is compatible with all foliar fertilizers.

Application: fertigation or foliar application before appearance of stress.

Package: 200g and 1kg.

Element	N	Total amino acids	C	EC 1%	pH 1%
Content %	14	80%	8	3.25	3-8



FITOFERT AMINOFLEX

biostimulator



FITOFERT AMINOFLEX is a specialized biostimulative fertilizer based on free amino acids. It is used in early development phases, as well as under stress conditions (cold, high temperature, damage). It is characterised by exceptional antistress activity, as well as by stimulation of enzyme activity and regulation of plant nutrition. Amino acids contained in this preparation successfully relieve stress symptoms. Production of amino acids under stress conditions is considerably lower, and application of Aminoflex compensates for their deficiency. Besides, amino acids take part in building cell structures, chlorophyll synthesis, opening of stomata, fertilization and multiple enzyme processes.

Application: foliar concentration 0,2-0,3%, i.e. quantity of 2-3 lit/ha with expense of 1000 lit of water, or fertigation application in quantities of 5-10 lit/ha, for treatment during stress.

Package: 250 ml, 1 lit, 5 lit and 10 lit.

Element	N	Amino acids	Free amino acids
Content %	5	15	15



SECONDARY MICRO

NUTRIENT FERTILIZERS



MICRO NUTRIENT FERTILIZERS BASED ON CALCIUM



Calcium is an essential nutrient and has an important role in several physiological processes, such as: cell growth and development, building and strengthening of the cell wall, metabolic processes and activation of feed absorption as well as hormonal control of enzyme activity. Calcium regulates the function of stomata and alleviates temperature stress. It also induces plant resistance to pathogens. The quantity of absorbed calcium in vegetables and fruit influences not only the yield, but also the quality, longevity and transportability of fruits. Certain plant species are very sensitive to calcium deficiency, manifested mainly on fruits, which drastically reduces their quality and price. Therefore, a timely treatment of crops is often necessary with one of the selected fertilizer formulations based on calcium.

FITOFERT CALCIUM ORGANO 30 is a preparation in the form of water soluble powder, with maximum 30% of CaO. It gives the best results with foliar application in small fruit crops (raspberry, strawberry, blackberry, blueberry) and vegetable crops (tomato, pepper, cucumber). This fertilizer is characterised by low EC, which does not damage plant mass during frequent treatments. Application: foliar concentration 0,3%-0,6%.

FITOFERT CAL-AMINO 15 is a liquid foliar fertilizer based on calcium and amino acids, designed for treatment of apple and pear crops in the phase after formation of fruit until the start of pigmentation. Its application enables longterm absorption of calcium through surface of leaf and fruit, as well as better transportability through plant tissues to cell walls. Crops should be treated at temperatures lower than 25 °C. Application is foliar, quantity of 3-5 litres per hectare.

FITOFERT CA-APPLE is a liquid foliar fertilizer based on calcium chlorid. Its designed for treatment of apple and pear crops in the phase of fermentation until the start of harvest. Crops should be treated at temperatures lower than 25 °C. Application is foliar, quantity of 3-5 litres per hectare.



MICRO NUTRIENT FERTILIZERS BASED ON BORON



Boron is a micronutrient with multiple functions in vital processes such as synthesis of vitamins, building of the cell wall, growth of pollen grains and sugar assimilation. Boron deficiency can cause many anomalies in crops reflecting in reduced fertility, rotting of root crops, uneven fruits or poor sugar assimilation.

Fertilizers based on boron are used for fruit and vegetable crops, and also for crop farming (sugar beet, soybean, sunflower).

Application quantities depend on the type of the plant, time of application and soil quality. For each of the given crops, recommended quantities for application are given in the tables.

FITOFERT BORMAX 20 is a fertilizer in the form of water soluble powder designed for foliar treatment of crops with higher boron assimilation, or on soils deficient in boron. It contains a high concentration (20%) in the form of easily accessible boron anion. Due to high concentration, application dose is 1,0 kg/ha in crops and seedlings.

FITOFERT BOR-AMIN 150 is a liquid formulation of boron etanolamin of high concentration 10,7%, which corresponds to the content of 150 gr of pure boron per litre of the preparation. The product is very convenient for use in fruit crops as well as sugar beet. Application doses are from 1-2 litres per hectare.

FITOFERT LIQUID-BOR 8 is a liquid formulation in the form of a concentrate suspension based on micro-elementary boron. Containing 8% of boron in the anionic form, that is, 115 grams of boron per liter of product. Micro-elementary boron containing excipients that allow better penetration and transport of boron.





FITOFERT FERRO MAX 11

for chlorophyll



FITOFERT FERRO MAX 11 is a fertilizer based on iron chelate in the form of DTPA complex. It is a highly concentrated source of iron, stable in the pH range 3-8. Due to its easy solubility, it is convenient for all types of application, foliar or fertigation. Fertigation is applied in all plant cultures where it is possible to control pH of irrigation waters and where pH value of soil does not exceed 7,5. It is compatible with all acid fertilizers and plant protection products, except for alkaline copper preparations.

Application: foliar concentration 0,2%-0,3%, and fertigation in quantities of 10-20 kg/ha, several treatments.

Package: 200 g, 1 kg and 5 kg.

Element	Fe(DTPA)	pH activity	Usage
Content %	11	3-8	Fertigaciona-folijarna

FITOFERT FERRO CHELL 6

for chlorophyll



FITOFERT FERRO CHELL 6 is a complex of divalent iron in EDDHA chelate. It is applied as prevention as well as for correction of iron deficiency in different crops. Iron is one of the essential micro nutrients and its deficiency can substantially affect biochemical processes within plant cells, which is manifested by appearance of chlorotic leaves, reduced immunity and plant vitality. This preparation makes up for iron deficiency in the shortest period of time, so that changes on leaves can be noticed as soon as 2 -3 days after treatment. The preparation is active in a broad pH range, from 3-10, so that it can be applied even in carbone soils and irrigation waters of high pH value.

Application: fertigation only, in quantities of 10-20 kg/ha, several treatments.

Package: 200 g, 1 kg and 5 kg.

Element	Fe (EDDHA)	pH activity	Usage
Content %	6	4-10	Fertigaciona





FITOFERT MANGAN ORGANO 12

for enzyme function



FITOFERT MANGAN ORGANO 12 is the fertilizer based on micro elementary manganese EDTA complex, with 12% of active substance. The composition is formulated in the form of a water-soluble powder. Manganese plays a significant role in the process of photosynthesis, water splitting reactions, binding and assimilation of nitrogen. Symptoms of deficiency are usually manifested in the form of necrosis (bleach) at peak foliage. The product is best used preventively, with foliar treatments or by fertigation.

Application: foliar concentration of 0.2 to 0.3% and by fertigation in quantities of 10 to 20 kg / ha, several treatments.

Package: 200 g, 1 kg and 5 kg.

Element	Mn (EDTA)	pH activity	Usage
Content %	12	3-8	Fertigaciona-folijarna



FITOFERT COMBIVIT 20

for enzyme function



FITOFERT COMBIVIT 20 is a preparation based on micro nutrients and designed for foliar treatment of farming crops, vegetables and fruit. It is a universal AFP chelate complex with high content of micro nutrients. Preventive treatments are recommended for crops sensitive to micro nutrients deficiency or for soils with micro nutrient deficiency, high content of organic matter, carbonates, phosphates and with pH value >6,5. It is recommended to apply the preparation at the beginning of vegetative stage, since low temperature of the earth prevents regular root activity and secretion of substances that affect adoption of micro nutrients. In fruit crops, treatment after harvesting is also recommended.

Application: Foliar application in the quantity of 1 kg/ha.

Package: 200 g and 1 kg.

Element	Fe	Zn	Mn	B	Cu	Mo	AFP	Ec 1%	pH 1%
Content %	5	5	5	3	1	1	12	4.61	3.95

FITOFERT CINK ORGANO 14

for enzyme function



FITOFERT CINK ORGANO 14 is a micro elementary fertilizer based on chelated EDTA complex. Zinc deficiency is mainly manifested by necrosis of the younger and older leaves. In this case the plant's cells bind other metal components to the enzyme molecules, which can often be phytotoxic.

The preparation is used preventively but it can also be applied after the onset of symptoms of deficiency.

Application: foliar conc. 0.2 to 0.5% and by fertigation in quantities of 10 to 20 kg / ha, on several treatments.

Package: 200 g, 1 kg and 5 kg.

Element	Zn (EDTA)	pH activity	Usage
Content %	14	3-9	Fertigaciona-folijarna



FITOFERT COMBIVIT COMPLEX 14

For enzymatic activities



FITOFERT COMBIVIT COMPLEX 14 is a product based on chelated forms of trace elements (Fe, Mn, Zn i Cu) and anion forms of B and Mo. The product is formulated in the form of water soluble powder, and it is mostly intended for fertigation usage in fruit and vegetable crops. The product is suitable for individual usage or for mutual usage with other fertilizers. Due to the chelated forms (DTPA and EDTA) the product is suitable for fertigation application in different soil and irrigation water types. A preventive application, gives the best results in plant nutrition, on soil where we could expect micronutrient deficiency or blockade (high pH >7 or high P content).

The product is applicable from the beginning of vegetation, till after picking or harvesting crops. After picking the treatment is important for determination and development of fruit buds.

Application: Fertigation 2 – 3 kg/ha or foliar treatment 1 -1,5 kg/ha.

Package: 200 g and 1 kg.

Element	Fe	Zn	Mn	Cu	B	Mo	Ec 1%	pH 1%
Sadržaj %	3	3	3	1	3	1	2.4	5.01





FITOFERT AMINO COOPER 8

For enzymatic activities

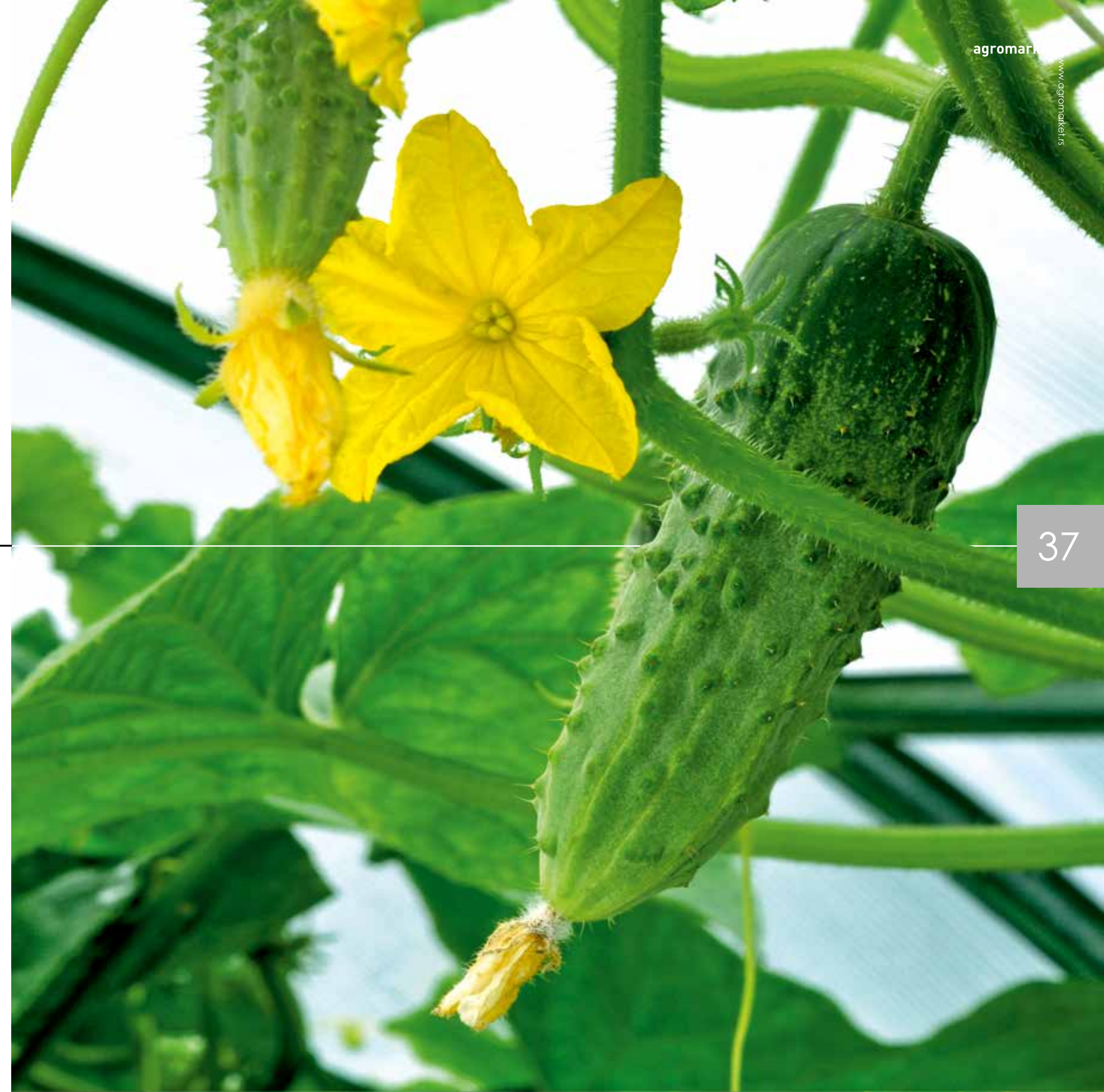
FITOFERT AMINO COOPER 8 is a product based on organic complex of copper with gluconic, lignosulphonates and EDTA acids. The product is intended for preventing and curing Cu deficiencies in different crop types, especially wheat and other Cu sensitive crops. Copper metabolism is connected to synthesis of lignin, photosynthesis process, carbon hydrate synthesis. Deficiencies are usually present on high pH soils (pH>7).

Beside the nutrition effect, FITOFERT AMINO COOPER 8 improves resistance of crops to some pathogenic diseases (fungal or bacterial). The product has a strong preventable effect to different diseases.

Application: Foliar with concentration 0,1 to 0,15%.

Package: 250 ml to 1 lit.

Element	Ukupni Cu	Cu-glukonat	Cu-EDTA	Cu-lignosulfonat	EC 0.1%	pH 0.1%
Sadržaj %	8	5	2	1		5,20



FITOFERT pH GREEN

for soil conditioning



FITOFERT pH GREEN is a product based on organic acids, designed for treatment of irrigation waters and soils with high pH value. High pH value and a great quantity of carbonates block feed availability from the soil, and make a large number of nutrients unavailable. By applying this product both pH and EC of hard irrigation waters are reduced at the same time. Continued use of the preparation successfully reduces pH value and EC in irrigation water, as well as in the soil, and increases availability and assimilation of the feed. Before use, control pH and EC of irrigation water and the soil should be tested and compared to optimum conditions for the cultivated plant.

Application: solely or together with fertigation fertilizers, bearing in mind that total concentration in the working solution does not exceed 0,1% (fertilizer+pH GREEN < 1 kg/1000 litres of water). The quantity of pH GREEN does not exceed ¼ of the fertilizer quantity.

Package: 1 kg and 5 kg

Element	N	Org.C	C/N	EC 0.1%	pH 0.1%
Content %	2,5	20	<15	0,60	2,90



NUTRITION OF FRUIT

Due to high yields, fruit crops demand timely and constant nutrition by adequate fertilizers. Classic soil fertilizers have a leading role in basic nutrition, but supplementary nutrition is an inevitable factor for regular plant growth and development of fruits. By supplementary nutrition, foliar or fertigation, it is possible to fully satisfy the needs of the plants in every phenophase stage and also remove deficiencies in macro, micro or secondary nutrients. A broad range of FitoFert products enables full nutrition of crops using adequate fertilizers. FitoFert preparations are unique because we do not offer just one universal product, but a wide range of them, which if used in the right way, achieve significant positive effects.

Positive effects are most often evident in strengthening and increasing plant vitality, developing resistance to various stress conditions (temperature, pesticides), increase in the yield, quality and marketability of the fruits. Also, advantages of FitoFert products result in improved transportability and longevity of the fruits, as well as elimination of diseases caused by physiological deficiencies.

Nutrition of fruit should be carried out in accordance with current development stage of the plants and their needs for specific nutrients. Foliar nutrition should be used always together with plant protection treatment, where corresponding phenophases should be considered.



GRAPES AND VINES

Stage (phenophase)	Preparat (folijarno)	kg(l)/ha
Offshoots 10 cm long	FitoFert Combivit 20 + FitoFert Bioflex-L	2 + 2
Formed buds	FitoFert BorMax 20 + FitoFert Humistart	1 + 3
Before blooming	FitoFert BorMax 20 + FitoFert Bioflex-L	1 + 2
Beginning of blooming	FitoFert HumiStart + FitoFert Bioflex-L	3 + 2
Formed berries	FitoFert HumiSuper Plus + FitoFert AminoFlex	3 + 2
Bunch closure	FitoFert Calcium 15	5
7-10 days later	FitoFert Calcium 15	5
7-14 days later	FitoFert Calcium Organo 30	3
Before and during harvesting	FitoFert 4:10:40 (2 times at 5-7 days)	5
After harvesting (early varieties)	FitoFert Combivit 20 + FitoFert HumiStart	2 + 3

Phenophase of plant development	Preparation (fertigation)	kg(l)/ha
Beginning of vegetative state	FitoFert Kristal 20:20:20 + FitoFert Ferro Chell 6	60 + 5
Blooming	FitoFert Kristal 10:40:10 primeniti odvojeno FitoFert Humiflex	60 20
Intensive growth of fruits	FitoFert Kristal 20:20:20	80
10-14 days later	FitoFert Kristal Berry apply separately FitoFert Humiflex	80 20
Fruit before harvesting	FitoFert Kristal 4:10:40	60
Ripe fruit	FitoFert Kristal 10:40:10	30

Twice during vegetative stage apply KALCIJUM-NITRAT 50-100 kg/ha through drop by drop irrigation system (depending on the planned yield)



APPLE AND PEAR

Phenophase of plant development	Preparation (fertigation)	kg(l)/ha
Beginning of vegetative stage	FitoFert Kristal 20:20:20 + FitoFert Ferro Chell 6	50 + 5
Blooming	FitoFert Kristal 10:40:10 + FitoFert Humiflex	50 + 20
Intensive growth of fruits	FitoFert Kristal 20:20:20	50
10-14 days later	FitoFert Kristal Berry + FitoFert Humiflex	80 + 20
10-14 days later	FitoFert Kristal Berry	80
Fruits before harvesting	FitoFert 4:10:40	60
Ripe fruit	FitoFert 10:40:10	30
Twice during vegetative stage apply KALCIJUM-NITRAT 50-100 kg/ha through drop by drop irrigation system (depending on the planned yield)		

Stage (phenophase)	Preparation (foliar)	kg(l)/ha
Green clusters	FitoFert Combivit 20 + FitoFert HumiStart	2 + 3
Before blooming	FitoFert BorMax 20 + FitoFert Bioflex-L	1 + 2
Full bloom	FitoFert BorMax 20 + FitoFert HumiStart	1 + 4
Petal fall	FitoFert HumiSuper Plus + FitoFert Bioflex-L	3 + 2
Hazelnut-sized fruit	FitoFert Cal-Amino 15 + FitoFert AminoFlex	3 + 2
For 7 days	FitoFert Bioflex-L (apply separately) + FitoFert Cal-Amino 15	2 + 3
Walnut-sized fruits	FitoFert Cal-Amino 15	3
Second decade of July	FitoFert Humistart + FitoFert 4:10:40	4 + 2
Grown fruit until harvesting stage	FitoFert Cal-Amino 15 (2-3 times every 10 days)	3
Before and during harvesting	FitoFert Ca-Apple (2-3 times every 7 days)	3
Ripe fruits	FitoFert 4:10:40	5
After harvesting	FitoFert Combivit 20 + FitoFert Humistart	2 + 4



PEACH, PLUM AND NECTARINE

Stage (phenophase)	Preparation (foliar)	kg(l)/ha
Pink flower buds	FitoFert Combivit 20 + FitoFert HumiStart	2 + 3
Full bloom	FitoFert BorMax 20 + FitoFert Bioflex-L	1 + 2
Petal fall	FitoFert HumiStart	5
Hazelnut-sized fruits	FitoFert HumiSuper Plus + FitoFert Bioflex-L	3 + 2
7-10 days later	FitoFert Calcium 15	5
7-10 days later	FitoFert Bioflex-L	2
7-10 days later	FitoFert Calcium Organo 30 + FitoFert AminoFlex	3 + 2
Ripening fruits	FitoFert Calcium Organo 30	3
7-10 days later	FitoFert Calcium Organo 30	3
Ripe fruits before and during harvesting	FitoFert 4:10:40 (2-3 times)	5
After harvesting	FitoFert Combivit 20 + FitoFert HumiStart	2 + 4

Phenophase of plant development	Preparation (fertigation)	kg(l)/ha
Beginning of vegetative stage	FitoFert Kristal 20:20:20 + FitoFert Ferro Chell 6	50 + 5
Blooming	FitoFert Kristal 10:40:10 + FitoFert Humiflex	60 + 20
Intensive growth of fruits	FitoFert Kristal 20:20:20	80
10-14 days later	FitoFert Kristal Berry + FitoFert Humiflex	100 + 20
Fruit before harvesting	FitoFert Kristal 4:10:40	80
Ripe fruit	FitoFert Kristal 10:40:10	30
Twice during vegetative stage apply KALCIJUM-NITRAT 50-100 kg/ha through drop by drop irrigation system (depending on the planned yield)		



RASPBERRY AND BLACKBERRY

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha per week	Preparation (foliar)	kg(l)/ha
First treatment before beginning of the root activity and vegetation	FitoFert 10:40:10 + FitoFert HumiStart	30 + 20		
Rooting, beginning of root activity and leaf growth (50-60 days)	FitoFert Kristal Berry apply separately + FitoFert Humiflex	25 + 10	FitoFert Bioflex-L + FitoFert Humistart	0.25 + 0.25
Intensive growth until blooming (half of May, 15-20 days)	FitoFert Kristal Berry	45	FitoFert BorMax 20 + FitoFert Bioflex-L	0.20 + 0.25
Blooming	FitoFert Kristal Berry + FitoFert Bioflex-P	30 + 2	FitoFert Humistart + FitoFert Calcium Organo 30	0.25 + 0.20
Germ formation and swelling of fruit (30-40 dana)	FitoFert Kristal Berry apply separately + FitoFert Humiflex	30 + 10	FitoFert Humisuper Plus + FitoFert Calcium Organo 30	0.50 + 0.20
Development of fruit and pigmentation (30-40 dana)	FitoFert Kristal 4:10:40 + FitoFert Kristal Berry	25 + 10	FitoFert Aminoflex + FitoFert Calcium Organo 30	0.25 + 0.20
After harvesting (15-20 days, two times)	FitoFert Kristal 20:20:20 + FitoFert Bioflex-P	20 + 2	FitoFert Humistart + FitoFert Combivit 20	0.25 + 0.20

Once a week in intensive vegetative state through drop by drop irrigation system or apply FitoFert CalNit (Calcium Nitrate) in the quantity of 15 kg/ha per week.

NOTICE: Nutrition through the system or watering at the distance of 10-20 cm to the left and right of the row to be done every 7-10 days depending on the weather conditions. If it is not possible to apply nutrition through drop by drop irrigation system, it is necessary to apply foliar nutrition (through leaf). Foliar nutrition should be done every 10 days with recommended preparations corresponding to development phenophases. Recommended quantity is maximum 3 kg of mixture per 1000 l of water. Recommended quantities of FitoFert crystal fertilizers make 30-40% of total needs for nutrients during vegetative stage of the plant grown. The remaining quantity of 60% should be added by applying basic soil mineral fertilizers (nutrition method for raspberry in Poland and Chile).

STRAWBERRY

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha per week	Preparation (foliar)	kg(l)/ha (min. 300 l vode/ha)
First treatment before beginning of root activity and vegetative state	FitoFert 10:40:10 + FitoFert HumiStart	30 + 20		
Rooting, beginning of root activity and leaf growth	FitoFert Kristal Berry + FitoFert Kristal 20:20:20	25 + 20	FitoFert HumiStart + FitoFert Bioflex-L	0.25 + 0.25
Intensive growth until beginning of blooming	FitoFert Kristal Berry apply separately + FitoFert Humiflex	45 + 10	FitoFert Bioflex-L + FitoFert BorMax 20	0.25 + 0.20
Blooming	FitoFert Kristal Berry + FitoFert Humistart	30 + 10	FitoFert HumiStart + FitoFert Calcium Organo 30	0.25 + 0.20
Germ formation and swelling of fruits (30-40 days)	FitoFert Kristal Berry apply separately + FitoFert Humiflex	50 + 10	FitoFert Humisuper Plus + FitoFert Calcium Organo 30	0.50 + 0.20
Development of fruit and pigmentation (30-40 days)	FitoFert Kristal 4:10:40 + FitoFert Kristal Berry	25 + 10	FitoFert Aminoflex + FitoFert Calcium Organo 30	0.25 + 0.20
After harvesting (15-20 days, 2 times)	FitoFert Kristal 20:20:20 + FitoFert Bioflex-P	20 + 2	FitoFert HumiStart + FitoFert Combivit 20	0.25 + 0.20

Once a week in intensive vegetative stage through drop by drop irrigation system or irrigate with FitoFert CalNit (Calcium Nitrate) in the quantity of 15 kg/ha per week.

CHERRY AND SOUR CHERRY

Stage (phenophase)	Preparation (foliar)	kg(l)/ha
Beginning of leaf development	FitoFert Combivit 20 + FitoFert Bioflex-L	2 + 2
Full bloom	FitoFert BorMax 20 + FitoFert HumiStart	1 + 3
Petal fall	FitoFert Bioflex-L	2
Berry-sized fruits	FitoFert Calcium 15 + FitoFert AminoFlex	3 + 2
7-10 days later	FitoFert Bioflex-L	2
7-10 days later	FitoFert Calcium 15 + FitoFert Humisuper Plus	3 + 2
Ripening fruits	FitoFert Calcium Organo 30	3
7-10 days later	FitoFert Calcium Organo 30	3
Ripe fruits before and during harvesting	FitoFert Kristal 4-10-40 (2-3 times)	5
After harvesting	FitoFert Combivit 20 + FitoFert HumiStart	2 + 3

Phenophase of plant development	Preparation (fertigation)	kg(l)/ha
Beginning of vegetative stage	FitoFert Kristal 20:20:20 + FitoFert Ferro Chell 6	60 + 5
Blooming	FitoFert Kristal 10:40:10 apply separately + FitoFert Humiflex	60 + 20
Intensive growth of fruits	FitoFert Kristal 20:20:20	80
10-14 days later	FitoFert Kristal Berry apply separately + FitoFert Humiflex	80 + 20
Fruits before harvesting	FitoFert 4:10:40	60
Ripe fruits	FitoFert 10:40:10	30

Twice during vegetative stage apply through drop by drop system KALCIJUM NITRAT 50-100 kg/ha (depending on the planned yield).

BLUEBERRY, ARONIA AND CURRANT

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha per week	Preparation (foliar)	Conc%
First treatment before beginning of root activity and vegetative stage	FitoFert 10:40:10 + FitoFert HumiStart	30 + 20		
Rooting, beginning of the root activity (50-60 days) -beginning of leaf growth	FitoFert 10:40:10 apply separately + FitoFert Humiflex	30 + 10	FitoFert Bioflex-L + FitoFert HumiStart	0.25 + 0.25
Intensive vegetation before beginning of blooming (15-20days)	FitoFert Kristal Berry + FitoFert Bioflex-P	35 + 2	FitoFert BorMax 20 + FitoFert Bioflex-L	0.25 + 0.25
Blooming	FitoFert Kristal Berry + FitoFert Bioflex-P	35 + 2	FitoFert HumiStart + FitoFert Calcium Organo 30	0.25 + 0.25
Germ formation and swelling of fruits (30-40 days)	FitoFert Kristal Berry apply separately + FitoFert Humiflex	25 + 10	FitoFert Humisuper Plus + FitoFert Calcium Organo 30	0.25 + 0.25
Fruit development and pigmentation (30-40 days)	FitoFert 4:10:40 + FitoFert Kristal Berry	20 + 10	FitoFert AminoFlex + FitoFert Calcium Organo 30	0.25 + 0.25
After harvesting (15-20 days, 2 times)	FitoFert 20:20:20 + FitoFert Bioflex-P	20 + 2	FitoFert HumiStart + FitoFert Combivit 20	0.35 + 0.20

Once a week in intensive vegetation apply through drop by drop irrigation system or irrigate with FitoFert CalNit (Calcium Nitrate) in the quantity of 15 -20 kg/ha per week.

NUTRITION OF VEGETABLES

During development and growth, every vegetable plant has certain needs for macro (N, P, K, Ca, Mg) and micro (Fe, B, Cu, Mn) nutrients depending on the stage of development. These quantities cannot be provided during regular soil fertilization, but must be added during vegetation through fertigation and foliar nutrition.

FitoFert fertilizers are in full accordance with different phenophases of vegetable development. Crystal water soluble formulations are primarily used for fertigation, but can be also applied as foliar feeding in combination with micro and secondary nutrient fertilizers. We give our recommendations for growing different vegetable crops, as follows.

Production of vegetable seedlings – for most vegetable plants the time needed to produce seedlings is from 4-8 weeks, during which period the plant has low needs for nutrients, and gets everything necessary for regular development after sprouting until forming of the second set of true leaves from nutrient substrates designed for sowing. For sowing, we recommend Terracult TCS TRAY B granulations of 0-7mm (Terracult TC4 or TC1 Black), with balanced pH values and feed quantity of 1kg/m², which is the quantity substantial for initial phases of plant development. Three weeks after sowing, most vegetable seedlings need to be transplanted into Terracult TC 5 granulation of 0-20 mm, which already contains a higher amount of nutrients (up to 2kg/m²) that supply the plant with necessary quantity of needed feed in the given phase of development.

Due to frequent irrigation with low quality water, during production of seedlings there occurs intensive rinsing out of nutrients from the substrate the plant is being rooted in, therefore it is necessary to apply the programme of plant nutrition through irrigation and foliar nutrition in the production of vegetable seedlings.

TOMATO AND AUBERGINE

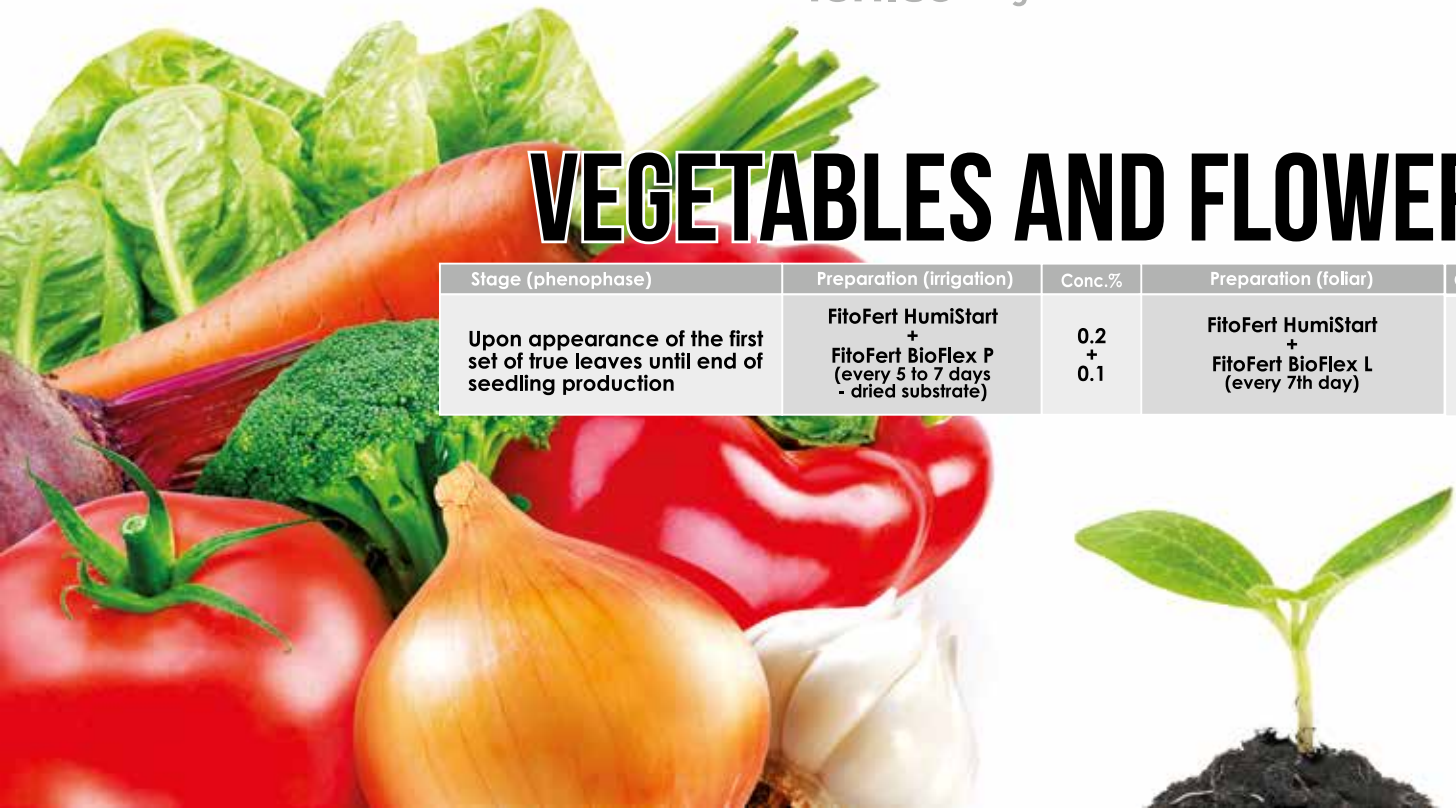
Stage (phenophase)	Preparation (fertigation)	gr(ml)/plant per week	Preparation (foliar)	Conc. %
Ukorenjavanje nakon rasadivanja (prvih 10 dana)	FitoFert Kristal 10:40:10 + FitoFert Bioflex-P	2 + 0.2	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
Početak cvetanja do formiranja prvih plodova (od 10- 30 dana)	FitoFert 10:40:10 + FitoFert Kristal Tomato	0.5 + 1.5	FitoFert BorMax 20 + FitoFert Bioflex-L (+ FitoFert AminoFlex *)	0.3 + 0.4 (+0.2)
Intenzivni rast plodova i otvaranje 5. cvetne grane (30-65 dana)	FitoFert Kristal Tomato apply separately FitoFert HumiFlex	3.5 20 l/ha	FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5
Pojava pigmentacije plodova i početak berbe (65-100 dana)	FitoFert Kristal Tomato	3	FitoFert Calcium 30 apply separately FitoFert Bioflex-L **	0.5 0.4
Intenzivna berba	FitoFert 4:10:40	2.5	FitoFert Calcium 30 + FitoFert HumiSuper Plus	0.2 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7-1,5 gr/plant per week. * Applied under stress conditions (low temperature, poor light, frost, bad weather) for better plant development. ** Treat every 7th day..

NOTE: IF IT IS NOT POSSIBLE TO USE FOLIAR APPLICATION OF FERTILIZER FITOFERT BIOFLEX-L, APPLY FERTIGATION OF FITOFERT BIOFLEX-P IN THE QUANTITY OF 1,5 KG/HA.

VEGETABLES AND FLOWERS

Stage (phenophase)	Preparation (irrigation)	Conc. %	Preparation (foliar)	Conc. %
Upon appearance of the first set of true leaves until end of seedling production	FitoFert HumiStart + FitoFert BioFlex P (every 5 to 7 days - dried substrate)	0.2 + 0.1	FitoFert HumiStart + FitoFert BioFlex L (every 7th day)	0.5 + 0.2



PEPPER

Stage (phenophase)	Preparation (fertigation)	gr(ml)/plant per week	Preparation (foliar)	Conc. %
Rooting after transplanting (first 10 days)	FitoFert Kristal 10:40:10 + FitoFert Bioflex-P	2 + 0.2	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
After rooting until blooming and first fruit (10-60 days)	FitoFert Kristal Pepper + FitoFert Kristal 24:6:10 apply separately + FitoFert HumiFlex	1 + 0.5	FitoFert BorMax 20 + FitoFert Bioflex-L (+FitoFert AminoFlex *)	0.3 + 0.4 (+0.2)
			FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5
After first harvest i.e. second vegetative stage (60-100 days)	FitoFert Kristal Pepper	2.5	FitoFert Calcium 30 apply separately + FitoFert Bioflex-L **	0.5 + 0.4
Final phase of fruit formation (from 100 days to end of vegetative stage)	FitoFert Kristal Pepper + FitoFert 24:6:10	2 + 1	FitoFert Calcium 30 + FitoFert HumiSuper Plus	0.2 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 1-2 gr/plant per week. *It is applied under stress conditions (low temperature, poor light, frost, bad weather) for regular plant development. **Treat every 7th day.

NOTE: IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1,5KG/HA.

CUCUMBER AND GHERKINS

Stage (phenophase)	Preparation (fertigation)	gr(ml)/plant per week	Preparation (foliar)	Conc. %
Rooting after transplanting (first 10 days)	FitoFert 10:40:10 + FitoFert Bioflex-P	2 + 0.2	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
After rooting until forming of 8th set of true leaves (day 10 - day 35)	FitoFert Kristal Melon + FitoFert 24:6:10	3 + 1.5	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Intensive growth and fruit enlargement until first harvest (day 36 to day 65)	FitoFert Kristal Melon + FitoFert Kristal 24:6:10 apply separately + FitoFert HumiFlex	3.5 + 1.5	FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5
Fully grown fruit and harvesting (from day 66 until end of harvesting)	FitoFert Kristal Melon	5.5	FitoFert Calcium 30 apply separately + FitoFert Bioflex-L **	0.5 + 0.4

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 1,5 gr/plant per week. * It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development. **Treat every 7th day.

NOTE: IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.



WATERMELON AND MELON

Stage (phenophase)	Preparation (fertigation)	gr(ml)/plant per week	Preparation (foliar)	Conc. %
Rooting after transplanting (first 10 days)	FitoFert 10:40:10 + FitoFert Bioflex-P	15 + 1.2	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
Intensive growth until blooming and formation of first fruit (day 10 - day 40)	FitoFert Kristal Melon + FitoFert 24:6:10	15 + 10	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Fruit growth to 70% size (day 41 - day 65)	FitoFert Kristal Melon + FitoFert 24:6:10 apply separately FitoFert HumiFlex	25 + 5 20 l/ha	FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5
Fully grown fruit and harvesting (day 61 - day 105)	FitoFert Kristal Melon + FitoFert 4:10:40	30 + 5	FitoFert Calcium 30 apply separately FitoFert Bioflex-L **	0.5 + 0.4

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 9 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

NOTE:IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.

ZUCCHINI

Stage (phenophase)	Preparation (fertigation)	gr(ml)/plant per week	Preparation (foliar)	Conc. %
Rooting after transplanting (first 10 days)	FitoFert 10:40:10 + FitoFert Bioflex-P	15 + 1.2	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
Intensive growth until blooming and formation of first fruit	FitoFert Kristal Melon + FitoFert 24:6:10 apply separately FitoFert HumiFlex	3 + 2 20 l/ha	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Fully grown fruit and harvesting	FitoFert Kristal Melon + FitoFert 4:10:40	4 + 0.5	FitoFert Calcium 30 + FitoFert HumiSuper Plus	0.2 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

NOTE:IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.

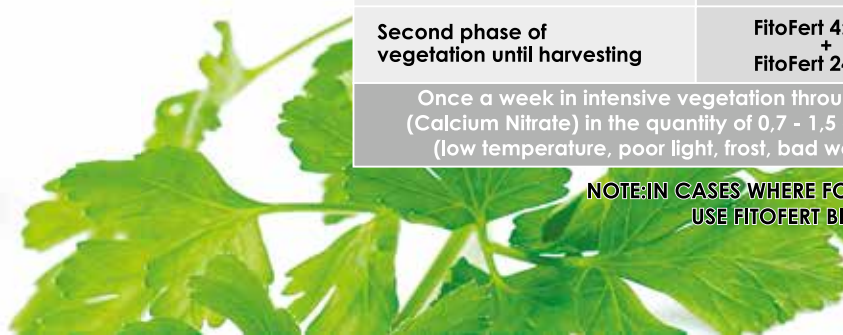


LETTUCE, SPINACH, CHARD, SPICY HERBS

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha phase	Preparation (foliar)	Conc. %
Rooting after transplanting (first 10 days)	FitoFert Kristal 10:40:10 + FitoFert Bioflex-P	40 + 4	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
From rosette formation of leaves until mid-vegetation i.e. beginning of head formation	FitoFert Kristal 4:10:40 + FitoFert 20:20:20 apply separately FitoFert HumiFlex	60 + 25 20 l/ha	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Second phase of vegetation until harvesting	FitoFert 4:10:40 + FitoFert 24:6:10	70 + 35	FitoFert Calcium 30 + FitoFert HumiSuper Plus	0.2 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7 - 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

NOTE:IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.



CRUCIFEROUS VEGETABLES

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha phase	Preparation (foliar)	kg(l)/ha (min. 300 l of water/ha)
Rooting after transplanting (first 10 days)	FitoFert 10:40:10 + FitoFert Bioflex-P	20 + 4	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
From rosette formation of leaves until mid-vegetation, i.e. beginning of head formation	FitoFert 24:6:10 + FitoFert 20:20:20 apply separately FitoFert HumiFlex	25 + 20 20 l/ha	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Second phase of vegetation until harvesting	FitoFert 4:10:40 + FitoFert 24:6:10	20 + 15	FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7 - 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

CABBAGE, CAULIFLOWER, BROCCOLI, KALE

NOTE: IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.

ROOT VEGETABLES

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha phase	Preparation (foliar)	kg(l)/ha (min. 300 l of water/ha)
Beginning of rosette formation of leaves i.e. third set of leaves (15 -20 days)	FitoFert 20:20:20 + FitoFert Bioflex-P	35 + 5	FitoFert BorMax 20 + FitoFert Bioflex-L	1 + 2
Intensive growth until uprooting	FitoFert 4:10:40 + FitoFert 24:6:10 apply separately FitoFert HumiFlex	30 + 7 20 l/ha	FitoFert HumiSuper Plus (+FitoFert AminoFlex *)	5 (+ 2)

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7 - 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

CARROT, BEETROOT, CELERY, HORSERADISH

POTATO

Stage (phenophase)	Preparation (fertigation)	kg(l)/ha phase	Preparation (foliar)	kg(l)/ha (min. 300 l of water/ha)
Until mid-vegetation, i.e. row closure and clearly defined flowers	FitoFert 20:20:20 + FitoFert Bioflex-P	35 + 4	FitoFert HumiStart + FitoFert Bioflex-L	0.3 + 0.4
Full bloom	FitoFert 20:20:20 apply separately FitoFert HumiFlex	65 20 l/ha	FitoFert BorMax 20 + FitoFert Bioflex-L (+ AminoFlex *)	0.3 + 0.4 (+0.2)
Petal fall and swelling of tuber	FitoFert 24:6:10 + FitoFert 4:10:40	14 + 60	FitoFert Calcium 15 + FitoFert HumiSuper Plus	0.3 + 0.5

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7 - 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

NOTE: IN CASES WHERE FOLIAR APPLICATION OF FITOFERT BIOFLEX-L IS NOT POSSIBLE, USE FITOFERT BIOFLEX-P IN FERTIGATION, IN THE QUANTITY OF 1-1,5KG/HA.

BULB VEGETABLES

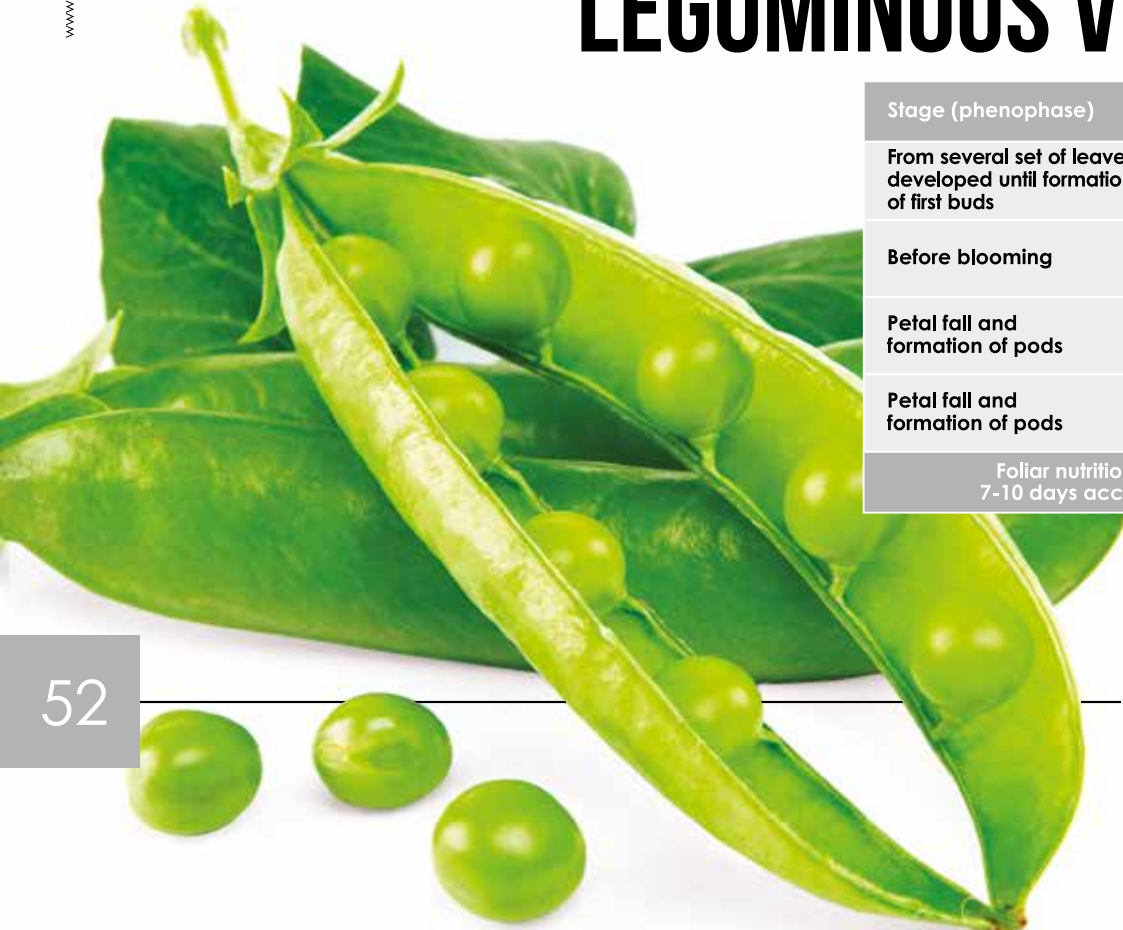
Stage (phenophase)	Preparation (fertigation)	kg(l)/ha phase	Preparation (foliar)	kg(l)/ha (min. 300 l of water/ha)
Beginning of rosette formation of leaves i.e. third set of leaves (15 -20 days)	FitoFert 20:20:20 + FitoFert Bioflex-P	30 + 5	FitoFert BorMax 20 + FitoFert Bioflex-L	1 + 2
Intensive growth until uprooting	FitoFert 4:10:40 + FitoFert 24:6:10 apply separately FitoFert HumiFlex	35 + 5 20 l/ha	FitoFert HumiSuper (+FitoFert AminoFlex *)	5 (+ 2)

Once a week in intensive vegetation through drop by drop irrigation system apply FitoFert CalNit (Calcium Nitrate) in the quantity of 0,7 - 1,5 gr/plant per week.* It is applied under stress conditions (low temperature, poor light, frost, bad weather) for plant development.**Treat every 7th day.

ONION, GARLIC, LEEK



LEGUMINOUS VEGETABLES



Stage (phenophase)	Preparation (foliar)	kg(l)/ha (min. 300 l of water/ha)
From several set of leaves developed until formation of first buds	FitoFert HumiStart	3
Before blooming	FitoFert BorMax 20 + FitoFert HumiSuper Plus	1 + 3
Petal fall and formation of pods	FitoFert Calcium Organo 30 + FitoFert HumiSuper Plus	3 + 2
Petal fall and formation of pods	FitoFert HumiSuper Plus + FitoFert 4:10:40	2 + 3

Foliar nutrition should be repeated every 7-10 days according to phenophase stages

BEANS, PEAS, GREEN BEANS

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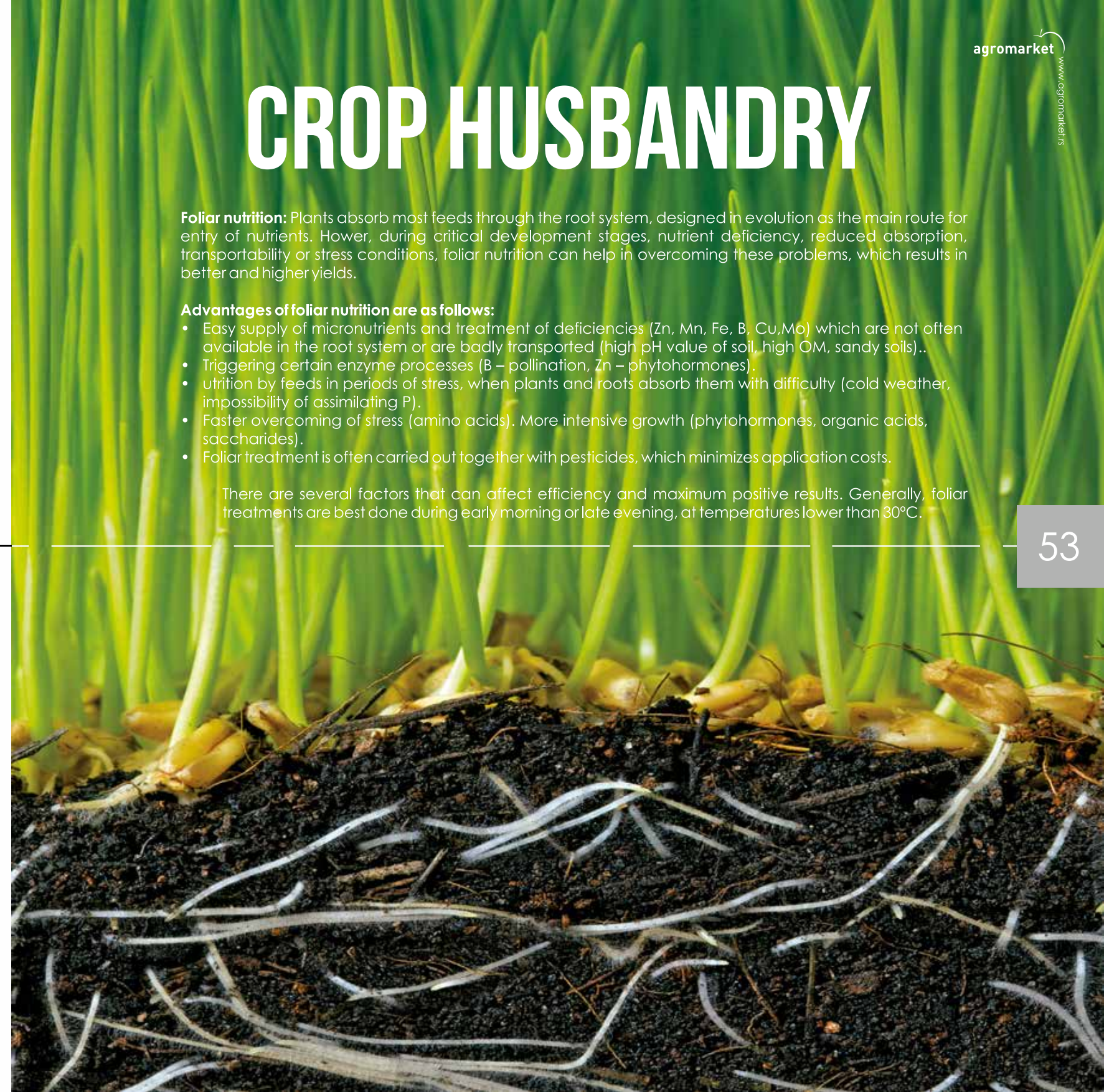
CROP HUSBANDRY

Foliar nutrition: Plants absorb most feeds through the root system, designed in evolution as the main route for entry of nutrients. However, during critical development stages, nutrient deficiency, reduced absorption, transportability or stress conditions, foliar nutrition can help in overcoming these problems, which results in better and higher yields.

Advantages of foliar nutrition are as follows:

- Easy supply of micronutrients and treatment of deficiencies (Zn, Mn, Fe, B, Cu, Mo) which are not often available in the root system or are badly transported (high pH value of soil, high OM, sandy soils).
- Triggering certain enzyme processes (B – pollination, Zn – phytohormones).
- Nutrition by feeds in periods of stress, when plants and roots absorb them with difficulty (cold weather, impossibility of assimilating P).
- Faster overcoming of stress (amino acids). More intensive growth (phytohormones, organic acids, saccharides).
- Foliar treatment is often carried out together with pesticides, which minimizes application costs.

There are several factors that can affect efficiency and maximum positive results. Generally, foliar treatments are best done during early morning or late evening, at temperatures lower than 30°C.





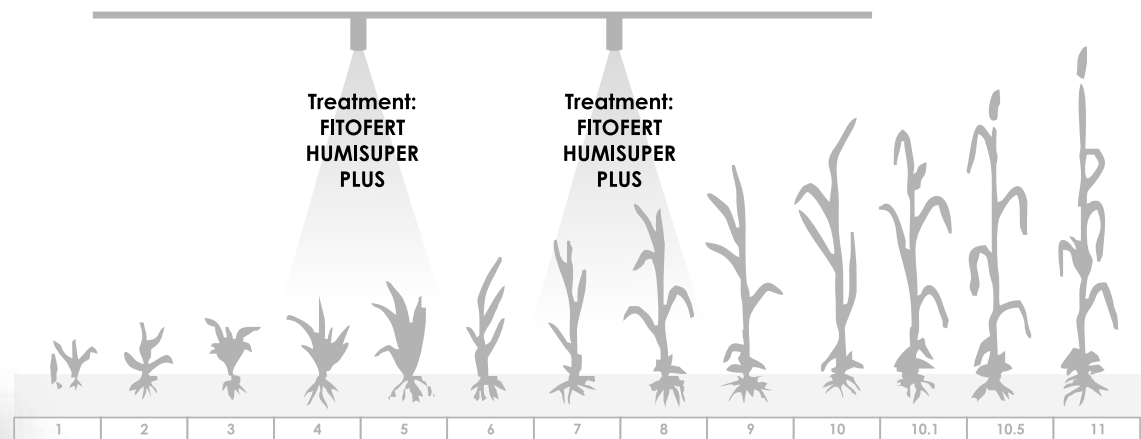
GRAINS

Development stage (time of application)	Preparation (foliar)	l/ha (kg/ha)
First treatment at the time of tillering, most often combined with herbicides	FITOFERT HUMISUPER PLUS	3
Second treatment at the time of heading-flowering combined with fungicide and/or insecticide	FITOFERT HUMISUPER PLUS	3

In addition to essential autumn fertilizing and soil nutrition by nitrogen, wheat needs to be also nourished through the leaf during pesticide treatments. First pesticide (herbicide) treatment is most often carried out in early spring, upon beginning of vegetation and initial growth of grass roots. In this period, nights are cold which means that adequate foliar nutrition triggers metabolic processes, quickens the activity of the root system, enables better tillering and reduces temperature stress.

Results of the study and realized profit, with one treatment using preparation FITOFERT HUMISUPER PLUS combined with a herbicide

Location	Variety	Control	FITOFERT kg/ha	Difference kg/ha	NET PROFIT
Kamenovo	Moison	7565	8170	605	8.800 din
Kamenovo	Apache	6760	7300	540	7.850 din
Porodin	Nicol	6255	6840	485	6.800 din
Markovac	Solehium	7495	8010	515	7.280 din



MAIZE

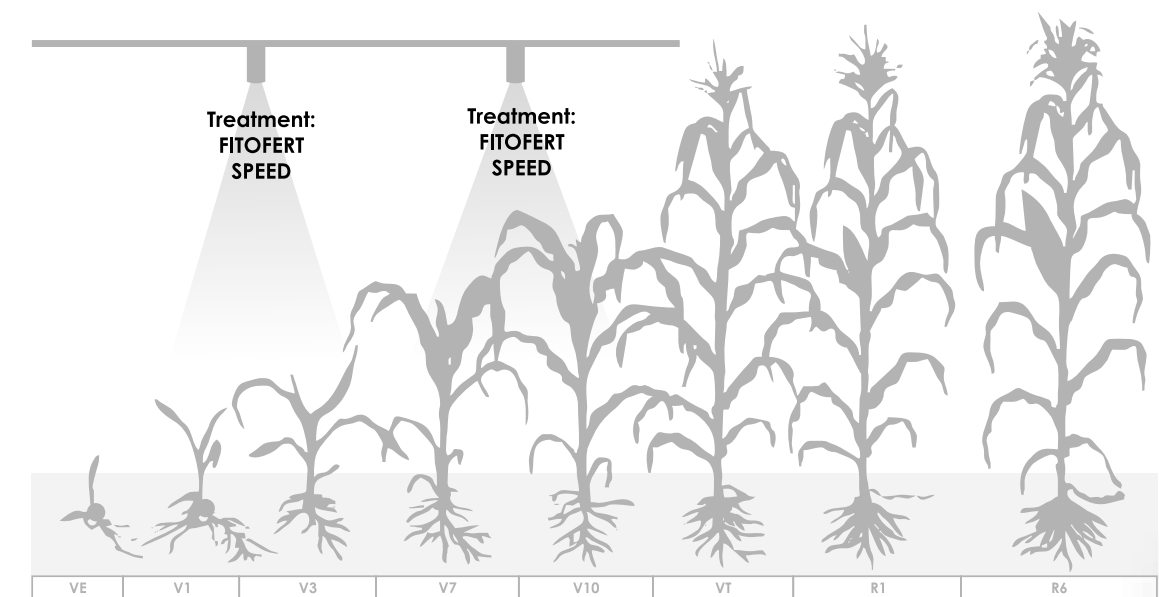


Development stage (time of application)	Preparation (foliar)	l/ha
From 3rd to 6th set of leaves	FITOFERT SPEED	3
Before tasseling	FITOFERT SPEED	3

Maize is a farming crop which, in vegetative cycle needs a high quantity of nutrients (N, K, P, Mg, Ca, Zn..). Most of the mentioned nutrients will be absorbed by the root from the soil absorbing complex, and therefore it is very important to carry out regular basic fertilization with adequate soil fertilizers during ploughing. Besides basic fertilization, while applying pesticides as protection from weeds, i.e. in the development stage from 4th to 6th set of leaves it is useful to do foliar nutrition with appropriate FitoFert fertilizers.

Results of the study and realized profit after 2 treatments with preparation FITOFERT SPEED

Location	Control kg/ha	FITOFERT kg/ha	Difference kg/ha	NET PROFIT
Svilajnac	8780	9540	760	8.300 din
Jagodina	7730	8370	640	6.250 din
Mrkšićevi Salaši	9120	9860	770	7.620 din





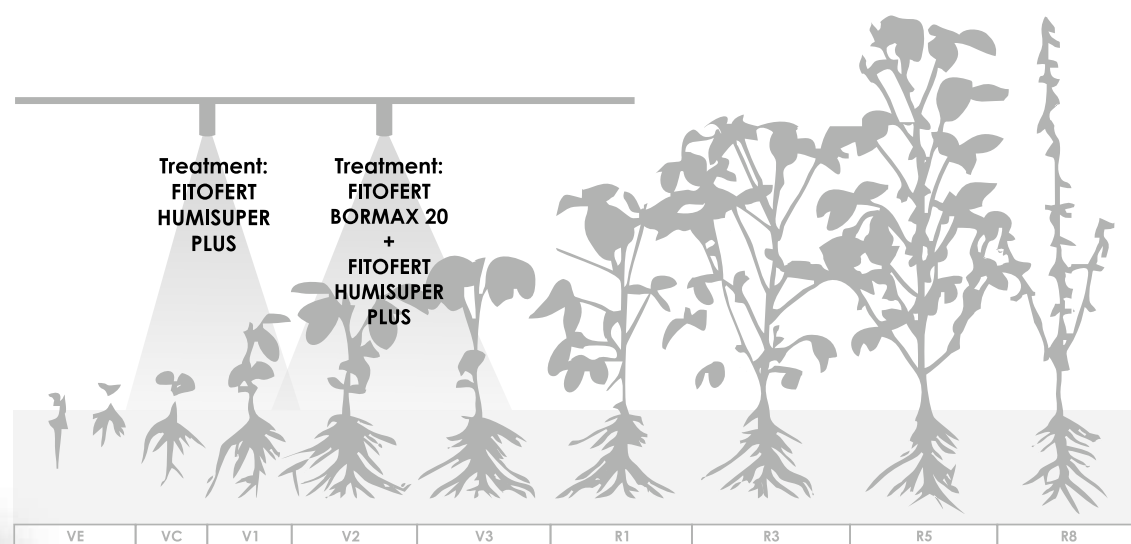
SOYBEAN

Development stage (time of application)	Preparation (foliar)	l/ha (kg/ha)
First treatment until appearance of first trifoliolate leaves of the plant, together with first treatment against weeds	FITOFERT HUMISUPER PLUS	3
Stage before flowering	FitoFert BorMax 20 + FITOFERT HUMISUPER PLUS	1 + 3

Soybean is a farming crop from the family of leguminous plants, plants which use their roots to enter into symbiosis with useful microorganisms in the soil. These microorganisms fixate atmospheric nitrogen and transform it into accessible nitrate nitrogen for the cultivated plant. Therefore, it is very important to consider nitrogen quantities in basic soil fertilization before sowing, i.e. to reduce the quantity of the basic fertilizer in soil cultivating, and add all other necessary quantities of nutrients during vegetation through FitoFert foliar fertilizers. Boron has a multiple effect on soybean crops: it affects root growth, improves nitrogen fixation, stimulates branch spread and flowering, prolongs longevity and fertilization of the flower and increases the number of beans in the pod.

Results of the study and realized profit with treatment before flowering using FITOFERT HUMISUPER PLUS + FITOFERT BORMAX 20

Location	Control kg/ha	FITOFERT kg/ha	Difference kg/ha	NET PROFIT
Nizine	3260	3560	300	10.000 din
Temerin	5500	5750	250	8.000 din
Sivac	3230	3570	340	11.600 din
Hajdučica	4220	4550	330	11.200 din



SUNFLOWER

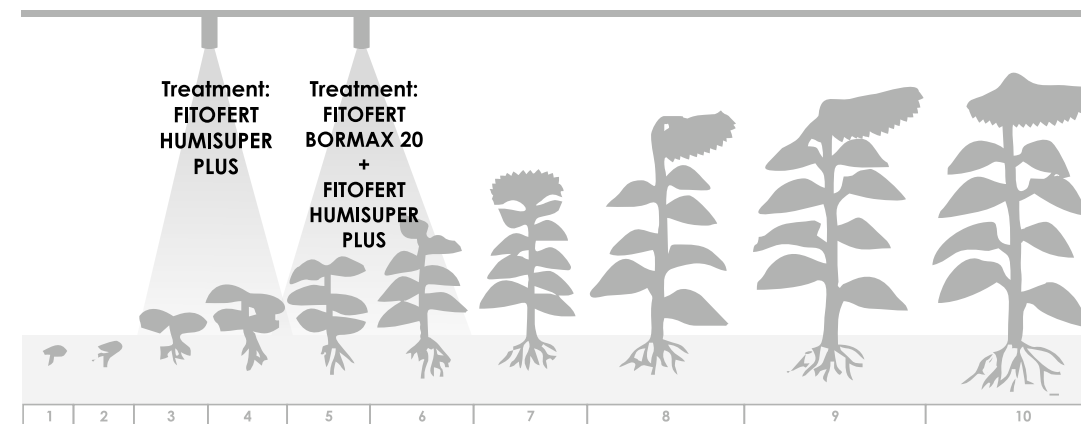
Development stage (time of application)	Preparation (foliar)	l/ha (kg/ha)
First pesticide treatment	FITOFERT HUMISUPER PLUS	3
Before buttonization	FITOFERT HUMISUPER PLUS + FITOFERT BOR MAX 20	3 + 1

Sunflower is a plant characterized by very fast growth. For this reason, it is mostly possible to apply only one or two foliar treatments during vegetative stage, at the beginning of vegetation in combination with appropriate herbicides. Since sunflower is grown in places with more sunny days and less precipitation, of key importance is formation of strong and robust root system, which will be able to supply the plant with nutrients. In addition to the root system, high sunflower yield asks for good pollination, therefore on soils deficient in boron (sandy soils) supplementary nutrition with FitoFert Bor Max 20 is recommended.



Results of the study and realized profit of the treatment using FITOFERT HUMISUPER PLUS + FITOFERT BOR MAX 20

Location	Control kg/ha	FITOFERT kg/ha	Difference kg/ha	NET PROFIT
PSS Zrenjanin	3866	4181	315	7.450 din
Uljarice Bačka	2460	2650	190	3.700 din
PSS Sombor	4052	4470	418	10.540 din





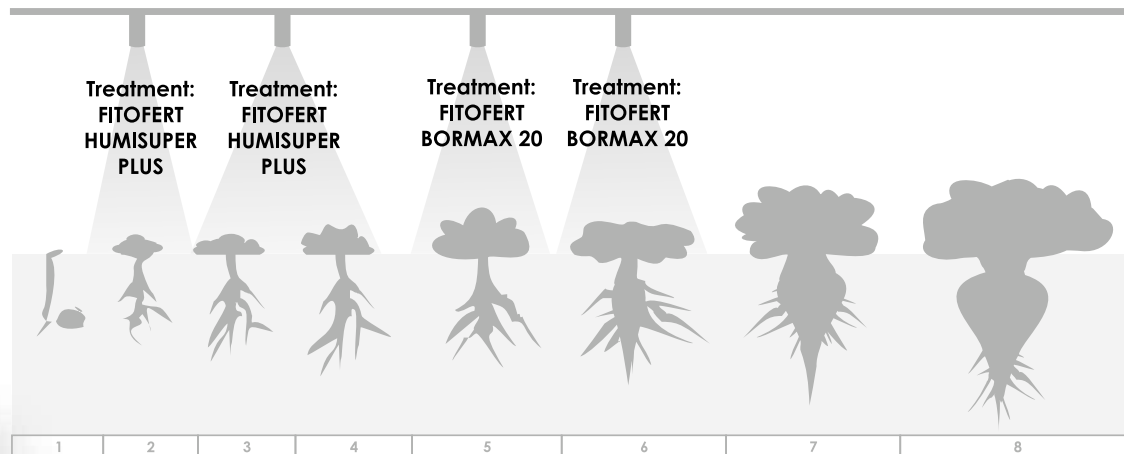
SUGAR BEET

Development stage (time of application)	Preparation (foliar)	l/ha (kg/ha)
Development of first true set of leaves	FITOFERT HUMISUPER PLUS	4
Beginning of June, before closure of rows	FITOFERT BOR MAX 20	2
	+ FITOFERT HUMISUPER PLUS	3
Middle of June	FITOFERT BOR MAX 20	2
	+ FITOFERT HUMISUPER PLUS	3

Sugar beet has a prominent assimilation of potassium, magnesium and boron, therefore it is necessary to assist plants in initial development stages by applying foliar FitoFert fertilizers. Fertilization effects of FitoFert Bor Max 20 and foliar fertilizers in later treatments include better resistance to disease of sugar beet heart rot and higher digestion rate (approximately 1-1,5%).

Results of the study and realized profit

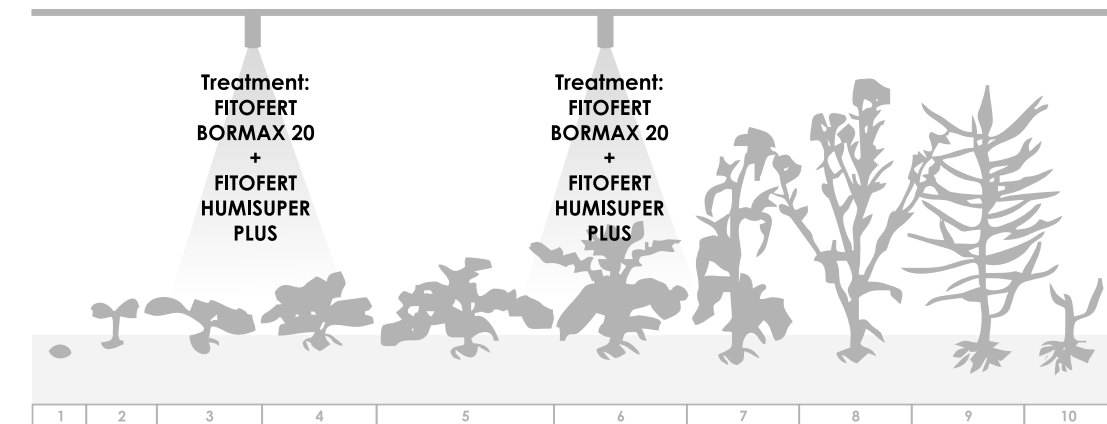
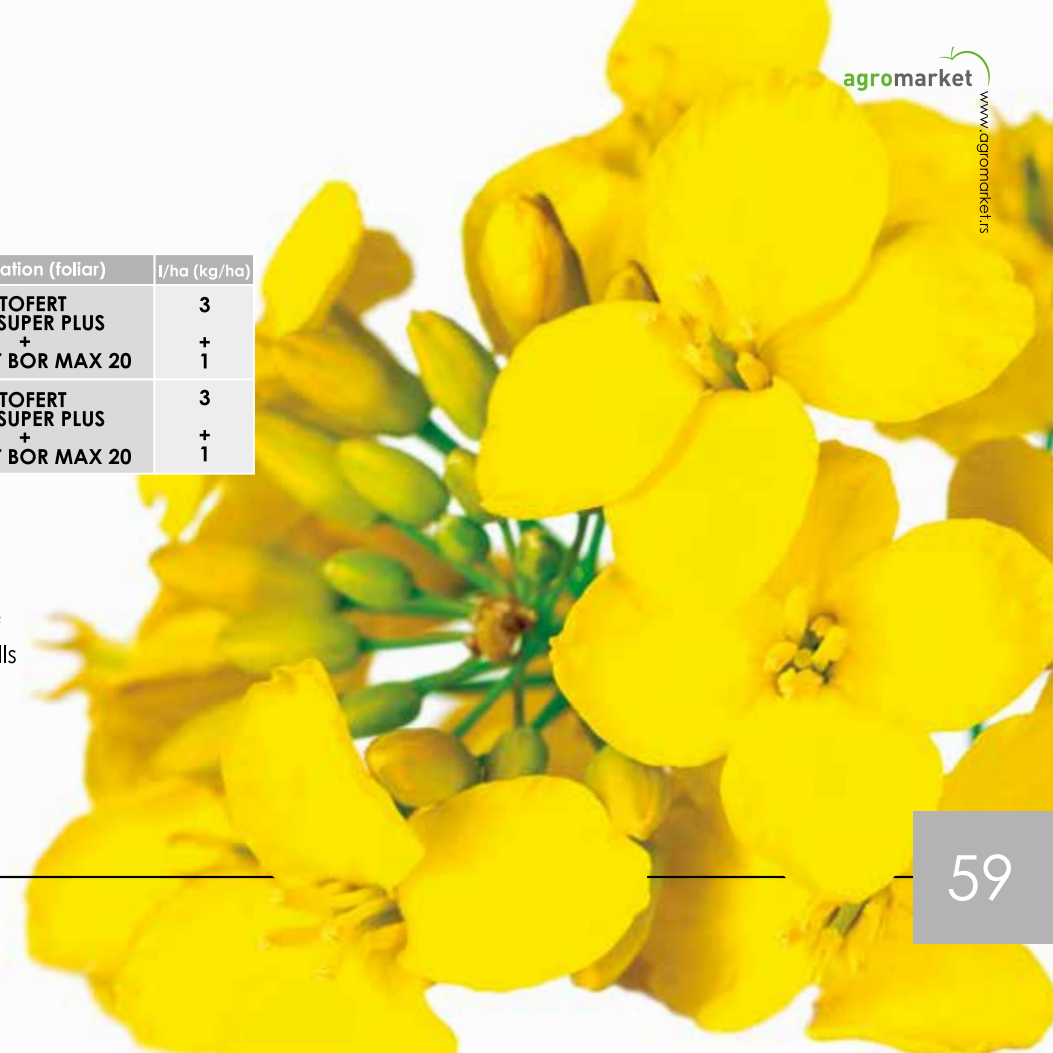
Location	DIG - Control kg/ha	DIG - FF: BORMAX 20	More payable beets	NET PROFIT
PSS Ruma	13,09	14,29	5.8 T	17.600 din
Crvenka	13,65	14,93	5.6 T	16.800 din



RAPeseed

Development stage (time of application)	Preparation (foliar)	l/ha (kg/ha)
Beginning of vegetative stage, when air temperature is above 8°C	FITOFERT HUMISUPER PLUS	3
	+ FITOFERT BOR MAX 20	+ 1
Spring treatment during herbicide treatment	FITOFERT HUMISUPER PLUS	3
	+ FITOFERT BOR MAX 20	+ 1

Like wheat, rapeseed is sown in autumn, and harvested the following summer. The most important thing at the beginning of vegetative state is good rooting, essential as a deposit of boron, a micronutrient that makes cells more elastic so that they can endure frosts better, and which also plays an important role in pollination. The first treatment should be done in early spring, using both FitoFert Humisuper Plus and FitoFert Bor Max 20 fertilizers.





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