Amino acids in foliar fertilization of plants

Aminokwasy w dolistnym nawożeniu roślin

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Foliar fertilization is one of the basic agrotechnical treatments determining the quality and size of agricultural and horticultural yields. Supplying plants with the right nutrients allows them to reach their full yield potential, and thus high yielding. Due to the rapid development of the plant production technology and the introduced cultivation of new, more demanding species and crop varieties, as well as due to the changing climate (variable, uncertain weather conditions), solutions are needed that go beyond the traditional supply of nutrients. This innovative approach is implemented by EKOPLON in fertilizer series EKOLIST and MAXIMUS Amino.

Fertilizers EKOLIST Cereals, Rape, Maize contain CHELACID and ComplexActive. CHELACID is a way of complexating micronutrients by EDTA chelate and organic acids, which allows their collection, absorption and utilization regardless of weather conditions. ComplexActive in turn, is a set of substances whose effect reduces the negative effects of stress on plants, which translates into higher quantity and quality of yields.

MAXIMUS Amino is a fertilizer containing macro and micronutrients complexed with amino acids, free amino acids as well as shorter and longer peptides. Amino acids are for plants both nutrients and signal carriers, informing about stressful conditions. Their application in plants results in a better utilization of available ingredients and water, which translates into increased yield, under both stress and in optimal conditions. This is supported by the results of experiments at SDOO Pawłowice.

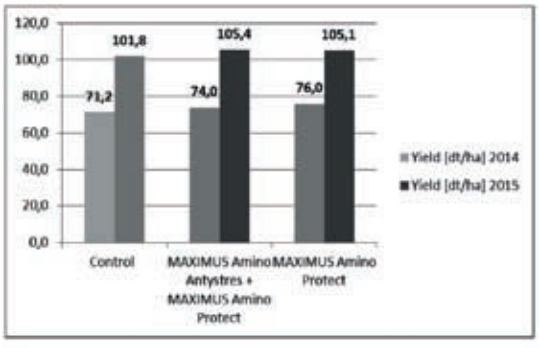

Chart 1. Yielding winter wheat variety Arkadia in the years 2014–2015

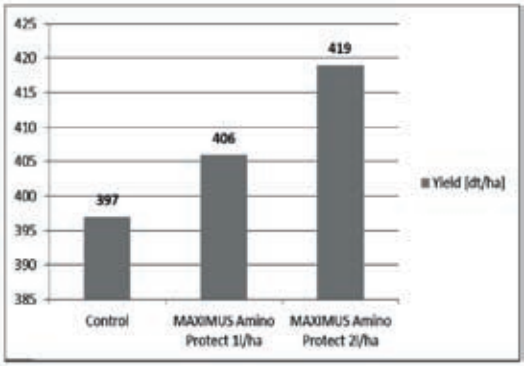

Chart 2. Yielding potato variety Vineta in 2015

Given the current weather conditions prevailing in Poland and globally, it can be assumed that agricultural producers will be looking for products that allow plants to an grow in adverse weather conditions and allow the highest yielding performance.