

NEW ORGANIC MATERIALS FOR AGRICULTURE, HORTICULTURE, CITY AND DESERT GREENING

N. N. Bambalov. G. A. Sokolov

Tel./Fax: +375-17 267 45 42; +375-17 267 41 40

E-mail: agrigo@ecology.basnet.by; peatlans@ecology.basnet.by

Institute for Nature Management of NAS of the Belarus

Organic Fertilizer-Soil Improvers of long term action have a completely natural composition without any synthetic agents. They are made from carefully selected ecologically pure natural raw materials. They are fully free from heavy metals, pathogenic organisms, vermin, pesticides, synthetic preservatives and quarantine weeds. Thus they cannot cause human, plants and animals diseases.

Peat is an organic rock, which has being formed during the period of 3-10 thousand years as a result of incomplete decomposition, and humification of died out marsh plants in high moistening conditions.

Sapropel is fine-dispersed deposit on the bottom of fresh-water lakes. It is mainly formed of died out aquatic organisms within the period of 3-10 thousand years. Best sorts of sapropel are used in the production of the soil improvers. Sapropel is rich in colloidal particles and includes also various mineral substances of the biogenic origin which well assimilated by plants.

Advantages:

- natural origin of components;
- presence of mineral and organic-mineral colloidal particles, steady against decomposition and providing a positive effect in complex improvement of physical, chemical and biological properties of soil, its nutritious and aqueous conditions for a long period of time;
- organic fertilizers make it possible to economize up to 30...50 % of irrigation water and allow plants to withstand the short-terms droughts successfully;
- presence of natural hormones and other biologically active substances;
- constancy of the composition and the balance of nutritive elements;
- absence of the necessity in additional mineral fertilizing in the year of soil improver application:
 - richness in humic substances;
 - homogeneity of the structure;
 - absence of odour and ecological reliability;
 - high quality of agricultural products without nitrates, pesticides and heavy metals, that allow to produce food for children.

This advantages are result of long-term experimental scientific investigations implemented by specialists of the National Academy of Sciences of Belarus Prof. N. Bambalov and Dr. G. Sokolov in United Arab Emirates, Egypt, Netherlands, Japan, China and other countries in different soil-climatic zones.

Organic Fertilizer-Soil Improvers SATOR[®] were certified and have a permission for application in agriculture and horticulture on the European Union territory.