



THE PROJECT "DECREASE OF SYNTHETIC CHEMICALS USE IN AGRICULTURE THROUGH INTRODUCTION OF ORGANIC PRACTICES IN AGRICULTURE ON TERRITORY OF KOSTANAY OBLAST"





PROBLEMS CAUSED BY MINERAL FERTILIZERS USE

- Systematic use of fertilizers leads to the DISAPPEARANCE OF MANY MICROELEMENTS. Their mobile forms transform into inactive and become unavailable for plants normal growth and development. This leads to the REDUCTION OF THE YIELD, LAND DEGRADATION and LOSS OF AGROBIODIVERSITY
- Absence of subsidies on organic fertilizers, lack of real-life examples that can be experienced firsthand, and lack of awareness about the quality and advantages of organic fertilizers lead to INCREASE OF MINERAL FERTILIZERS USE
- The technology of mineral fertilizers production also leaves a lot to be desired. For example, the efficiency coefficient for ammophos production is 10-15%, i.e. the manufacture of 1 ton of that mineral fertilizer PRODUCES 6-10 TONS OF WASTE released into the environment

ton

black soil of Kazakhstan LOSES up to 14 million tons of humus, and due

Annually, due

to mineralization,

to erosion - up to

19 million tons

USE of mineral fertilizers

pesticides by 14 tons per year

2810 tons per year,

8 farms on

14,050 hectares

administer organic fertilizers instead of synthetic mineral fertilizers

farms obtained THE CERTIFICATES OF ORGANIC PRODUCTION

farm is in conversion period

farm is going through certification procedure

During the project

4,500 people

were CONSULTED. Within the project activities Association of Organic Agriculture in collaboration with partners held several dozens of field days, roundtables on different level, trainings, seminars, conferences

50 farms

More than

distribution

(in Kostanay, Aktobe, Akmola, North-Kazakhstan, Almaty regions) RECEIVED THE CONSULTATIONS and practical advices about organic farming, transition requirements, certification procedures, and options for organic products

Organic agriculture promotes and enhances agro-ecosystem health, including biodiversity, biological cycles, and soil biological activity. The impact of organic agriculture on natural resources favours interactions within the agro-ecosystem that are vital for both agricultural production and nature conservation

 Organic fertilizers help to improve the condition of the land, they are able to increase productivity and quality of agricultural products

 Within the project technical support was provided for farmers who were interested in the application of organic fertilizers instead of synthetic (mineral) fertilizers



"Association of Organic Agriculture" together with representatives of the Ministry of Agriculture of the Republic of Kazakhstan, Kazakh Parliament, FAO participated in the development of the bill on "Organic farming." At the request of the Ministry of Agriculture of Kazakhstan, "Kazakh Research Institute of Agribusiness Economics and Rural Development" made calculations concerning the necessity of subsidizing of organic fertilizers and organic production, and the necessity of subsidies for organic certification.

PROJECT RESULTS AND PROPOSED APPROACHES

DEMONSTRATION OF THE PROFITABILITY OF USING ORGANIC FERTILIZERS INSTEAD OF MINERAL FERTILIZERS ON THE PILOT FARMS TERRITORIES

PRACTICAL RESULTS of the use of organic fertilizer "Riverm" in the pilot farms of Kostnanay oblast

