

Vulnerability of wheat sector to climate change



The export potential of Kazakhstan's wheat sector reaches around 6-7 million tons and in some years even up to 10 million tons

Main beneficiaries:

- Population of Kazakhstan

Project Duration: 2012-2014

Total Budget:

USAID - \$1,000,000

UNDP - \$102,628

The climate in Kazakhstan's main farming areas provides the preconditions for possible droughts, hot winds, late spring and early autumn frosts and other weather conditions unfavorable for agriculture. Changing hydrothermal conditions during the growing season influence the occurrence of different diseases of cereal crops due to which the grain quality and harvest may worsen. There are sufficient land and climate resources for growing the main crops in Kazakhstan. However, harvest losses due to poor weather conditions in some years may reach 50 to 70% in the region. If current trends in global and regional climate change continue supply the whole population with food may become a serious problem.

The project will demonstrate the implications of climate risk to the region's food security, and will work to ensure that climate change adaptation becomes pivotal in agricultural decision-making processes at the regional, national and local levels. It will demonstrate the relevance of climate change adaptation in the wheat sector and support the harmonization of financial, technical and social adaptation measures. Preventive and resilience-supporting measures will be supported, rather than reactive emergency management. The project is expected to strengthen livelihoods and resilience in Central Asia by strengthening the wheat production sector as a whole and especially its ability to anticipate, cope with, and recover from climate-related risks.

Expected results:

- Improved Monitoring and Information Sharing for Climate-Resilient Wheat Production (Kazakhstan);
- Climate Resilience Developed Through Mainstreaming of Adaptation Measures (Kazakhstan);
- Regional Dialogue on Wheat, Climate Change and Regional Food Security Supported (Central Asian countries and Afghanistan).

Partners in Action:

- Ministry of Agriculture of the RK
- Ministry of Environmental Protection and Water Resources of the RK
- JSC "KazAgroInnovation"
- RSE "KazHydromet"
- National Space Research Institute

Contacts: Project Coordinator – Yerlan Zhumabayev
E-mail: Yerlan.Zhumabayev@undp.org
12a, Kazhimukan Str, room 707
Astana, 010000, Republic of Kazakhstan
Tel: +7 7172 799 343
www.undp.kz