

# Basin Protection Action Plans

Implementation of EU's Water Framework Directive and its sister directives are one of the main steps for environment chapter. The main aim of this directive is to implement integrated water resources management, so basin management becomes an obligation. In this context, Turkey has started to prepare its Basin Protection Action Plans in 2011. These plans will be completed by year 2013 to meet sustainable usage and protection of water sources in all 25 basins, with consideration of pollution, pressures and impacts, drinking water sources and protected areas. These Basin Protection Action Plans will be converted into River Basin Management Plans.

**"Protect & Develop"  
a new planned course  
for Basin Management.**



[www.sygm.gov.tr](http://www.sygm.gov.tr)

# Noah's Ark (National Biodiversity Data Base)

Noah's Ark Biological Diversity Database is a web-based, open to public database by which the members can make inquiry specifically on species, habitats and fields on the basis of monitoring biological diversity and to which the members can access with restricted rights that are specific to themselves. Currently, many species still continue to live in Anatolia with all beauty and naturalness of wild-life.

Noah's Ark Biological Diversity Database aims to contribute to the nature studies to avoid losing this wealth. This database is open to usage, data entry and inquiry by all person and institutions such as citizens, civil society organizations, scientists, researchers who will to contribute to nature conservation. All observation records entered into the database are accepted. However, the data are registered to the system in line with the decisions of the Expert Groups and Scientific Advisory Board specified by Department of Information Processing through an approval filtrate.



[www.nuhungemisi.gov.tr](http://www.nuhungemisi.gov.tr)



[www.cetaitim.com](http://www.cetaitim.com)





The Republic of Turkey  
Ministry of Forestry and Water Affairs



# National Afforestation Campaign Action Plan

Since Turkey has one of the highest erosion rate in the world because of her topographical structure, climate, erosion sensitive lands and also erroneous agricultural patterns, forests and pasture degradation; Turkey has launched **“National Afforestation Campaign Action Plan”**. This action plan covers the years of 2008-2012. 2.3 million hectares of land will have been revised within the last five years. A wide range of stakeholders including public and private sector have participated the implementation of this action plan.

*“We are one of the first five countries in the world by afforestating 2,3 million hectares within the last five years.”*



By courtesy of the plan, number of 300.000 rural people will have been employed for six months in each year between 2008-2012. For the first twenty years period, 181,4 million tonnes of CO<sub>2</sub> is estimated to be captured by Turkey's forests by means of mitigating the climate change. According to the United Nations Food and Agriculture Organization (FAO) - Forest Resources Assesment (FRA) 2010 Report, Turkey has been the 5<sup>th</sup> country in the world, in expanding its forests with the rate of 1,1%.



AKŞEHİR, SEVERAL YEARS AGO



AKŞEHİR, TODAY

**BEST PRACTICES** of  
Ministry of Forestry and Water Affairs

[www.ormansu.gov.tr](http://www.ormansu.gov.tr)



# Küre Mountains National Park

www.kdmp.gov.tr



"PAN Park of Turkey"

Küre Mountains National Park is located in the northern-west of Turkey. According to World Wide Fund for Nature (WWF), "**Northern Anatolian and Caucasian Temperate Zone Forests**" are among 200 globally prioritized ecological areas. Küre Mountains National Park, with 157 endemic plants and 59 endangered plant taxons, is a part of this precious region.

Since Küre Mountains National Park contains high levels of valuable biological diversity and is experiencing a rapid loss of habitats, it has been included in the 100 Forest Hot Spots of Europe. Küre Mountains National Park is the first Pan-Park of Turkey.

## Honey Production Forests

<http://balormani.ogm.gov.tr/>

To support the bee keeping which provides benefit to the protection of the biological diversity and transferring it to the next generations, sustainable food security, prevention of erosion, to increase the employment and the income level in the rural areas where there is inadequate areas suitable for agriculture.

109 honey production forests have been settled down in 7689,7 hectares of area in suitable regions. In the scope of the project, afforestation has been done in the locust, willow, acer, almond and sophora types.



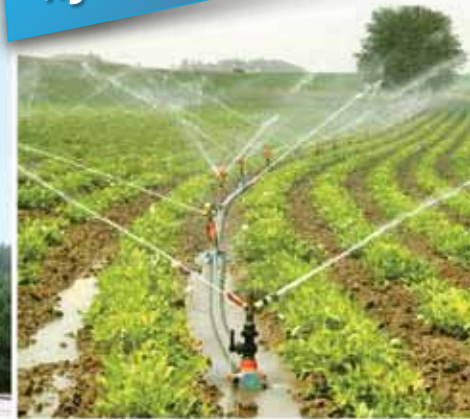
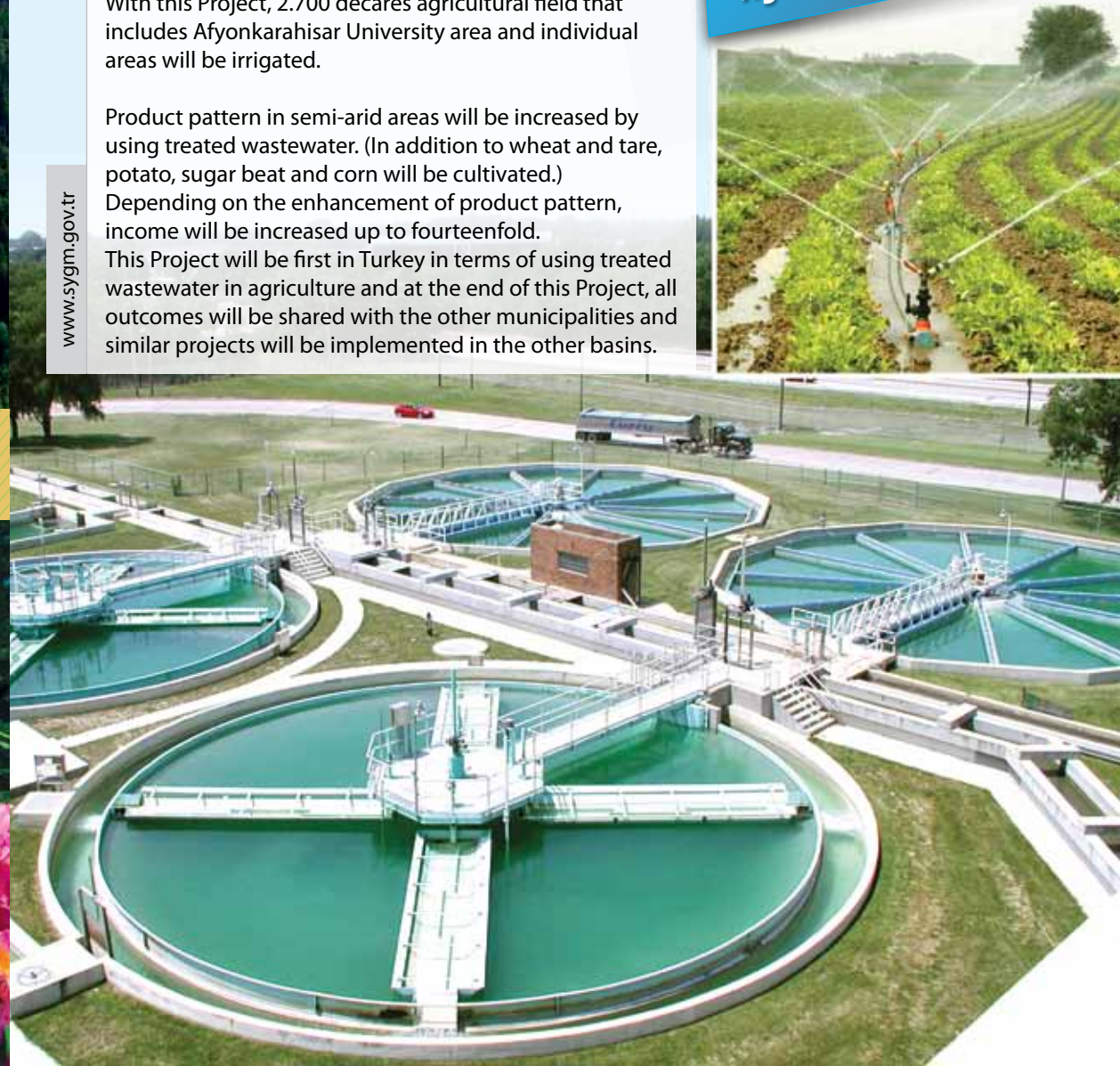
## Reuse of Treated Wastewater in Agriculture

The Project of Reuse of Treated wastewater in Agriculture will be put into practice in Afyonkarahisar in Turkey. The Project is going to be started in July 1, 2012 and it is going to be finished in 2014 according to working plan. The overall objective of the project is to improve the wastewater treatment for agricultural purposes in Turkey. With this Project, 2.700 decares agricultural field that includes Afyonkarahisar University area and individual areas will be irrigated.

Product pattern in semi-arid areas will be increased by using treated wastewater. (In addition to wheat and tare, potato, sugar beat and corn will be cultivated.) Depending on the enhancement of product pattern, income will be increased up to fourteenfold. This Project will be first in Turkey in terms of using treated wastewater in agriculture and at the end of this Project, all outcomes will be shared with the other municipalities and similar projects will be implemented in the other basins.

"Every drop counts"  
Treated Wastewater  
will be reused in  
Agriculture

www.sygm.gov.tr





# Forest Fire Management System

Approximately 12 million hectares of forest area of our Country, falling within Mediterranean Climate Zone, exist in regions which are very sensitive to fire. All planes, helicopters, sprinklers, bulldozers, trailers and service vehicles are monitored on line by mobile data communication device via digital maps such as Citydorf and Google Earth. When a fire call is received, by mobilizing the fire fighters and fire vehicles closest to the given coordinate, the operator units ensure the intervention to fire at a short time, and prevent the loss of labour force and economical losses by hindering the spread of fire. Moreover, it enables the fire management on the field by logging in into the system via mobile devices such as mobile phones with appropriate hardware etc.



By virtue of the Project, a great deal of support is provided on early detection & fast and effective intervention which are the most important factors in suppression of forest fires, and the efficiency in administration of fire fighting operations have been increased.



# Sustainable Groundwater Use

Installation of water meters to both drilled and to be drilled wells to ensure efficient use of groundwater has been become compulsory in legal base, afterwards the first implementations have been started. With realization of both installation of water meters and implementation of pressurized irrigation systems together, water and energy consumption decrease significantly and farmers' income increases even more.

**"Measures for efficient use of groundwater have been implemented with active participation of farmers."**



In Konya, Niğde and Karaman provinces, located in the center of Anatolia and most vulnerable area in terms of groundwater, more than 60 million m<sup>3</sup>/year water and approximately 25-30% of energy consumption will be saved by help of those measures. Furthermore, all new irrigation systems, where technically feasible, have been designed as pressurized systems.



**"We are the most successful country in our region depending on the advanced technology developed for combating forest fires"**

