

Rural Development Policy and Agricultural Sustainability

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RURAL DEVELOPMENT POLICY

- Supporting the ecological, economical and social issues in the rural regions and improving the quality of life in rural areas
- The main aim of rural development policy is not only to ensure the development of agricultural sector, but to improve the quality of life in rural areas.

Goals of Rural Development

- Encouragement of organization of rural populations and support of civil organizations
- Supply of basic requirements (health, education, insurance etc.) of rural populations
- Achievement of sustainable income for rural population
- Maintaining natural resources and protection of environment

Related Institutions

- **Ministry of Agriculture and Rural Affairs**
 - Institute for Supporting Agricultural and Rural Development**
 - UN Word Bank Fund**
 - AB Fund (MEDA, SAPARD)**
 - REC Fund (Szentendre-Budapest-Hungary)**
 - Province Governorships**

- **TR Prime Ministry State Planning Organization**

Regional Development Agencies:

• Region	Province	Center
TR10	İstanbul	İstanbul
TR52	Karaman, Konya	Konya
TR83	Amasya, Çorum, Samsun, Tokat	Samsun
TRA1	Bayburt, Erzincan, Erzurum	Erzurum
TRB2	Bitlis, Hakkari, Muş, Van	Van
TRC1	Adıyaman, Gaziantep, Kilis	Gaziantep
TRC2	Diyarbakır, Şanlıurfa	Diyarbakır
TRC3	Batman, Mardin, Şırnak, Siirt	Mardin

**“TR72: Kayseri, Sivas, Yozgat, Kayseri”
established.**

Council Regulation (EC) No. 1698/2005

Under this Regulation, rural development policy for 2007 to 2013 is focused on three themes (known as "thematic axes"). These are:

1. Improving the competitive power of agricultural and forestry sector;
2. Improving the environment and the countryside;
3. Improving the quality of life in rural areas and encouraging diversification of the rural economy.

Regional Development Projects

- Southeast Anatolia Project (GAP)
- East Anatolia Project (DAP)
- East Blacksea Regional Development Project (DOKEP)
- Konya Plain Irrigation Project (KOP)

Rural Development Projects

- 1. Çorum - Çankırı Rural Development Project
- 2. Erzurum Rural Development Project
- 3. Bingöl – Muş Rural Development Project
- 4. Yozgat Rural Development Project
- 5. Erzincan – Sivas Rural Development Project
- 6. Ordu – Giresun Rural Development Project
- 7. Doğu Anadolu Watershed Development Project
- 8. Project for Development of Proper Methods for Shared Forestry
- 9. Village-Town Project (Ordu/Mesudiye/Çavdar and surrounding Villages)
- 10. Anatolia Watersheds Rehabilitation Project
- 11. Village-based Participatory Investment Program and Rural Social Support Project

Components of Agricultural Development

- Increasing of yield and quality
- Product Diversity and Variety Breeding
- Development of Agricultural Industry
- Increasing of Competitive Power
- Sustainability

Increase of yield and quality

- Seed, Seedling, Sapling and Beast kept for breeding
- Supply of Agricultural Input
- Improvement of Agricultural Applications
 - Tillage
 - Sowing-Planting
 - Irrigation
 - Fertilization
 - Plant Protection
 - Harvesting
 - Storage and Preparation for Marketing

Diversity of Product and Breeding of Variety

- Using and Breeding of native varieties
- Increasing competitive power of local specific products
- Production of alternative products
- Supply of consumer's demand for agricultural products

Development of Agricultural Industry

- Food Industry
 - Feed Industry
 - Packing Industry
 - Textile and Leatherworking Industry
 - Biomass Energy Production
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- The bottom right corner of the slide features a decorative graphic of several concentric, light-colored circles, resembling ripples on water, set against the dark teal background.

Development of Agricultural Industry

- Agricultural equipments and machines
- Elements of irrigation systems
- Production of other agricultural inputs
 - Chemical fertilizers
 - Organic and organomineral fertilizers
 - Pesticides
 - Production of seed, seedling and stud for breeding

Agricultural Sustainability

- Continuation of high yield and quality for long time
 - Protection of natural resources and wild life
 - Providing high quality life conditions for rural people
 - Leaving well-processing environments for future generations
- 
- The background of the slide features a dark teal color with several concentric, light teal circular ripples, resembling water droplets, located in the lower right and bottom center areas.

Ecological Sustainability

- Development of sustainable agricultural methods
 - Organic Farming
 - Good Agricultural Practices
 - Natural Farming
 - Biodinamic Farming etc.
- Protection of natural resources (water, soil, biological organisms)

Economical Sustainability

- Development of marketing of agricultural products
 - Self adequacy
 - Distribution of productive power
 - Increasing value of agricultural products
 - Agricultural subsidies
- 
- The background of the slide features a dark teal color with several concentric, light teal circular ripples at the bottom, resembling water droplets or raindrops.

Social Sustainability

- Rural Modernization
- Rehabilitation of living conditions
- Sanitation and Health
- Development of handcraft skills
- Development of folkloric cultures
- Sociality of rural women
- Child Education



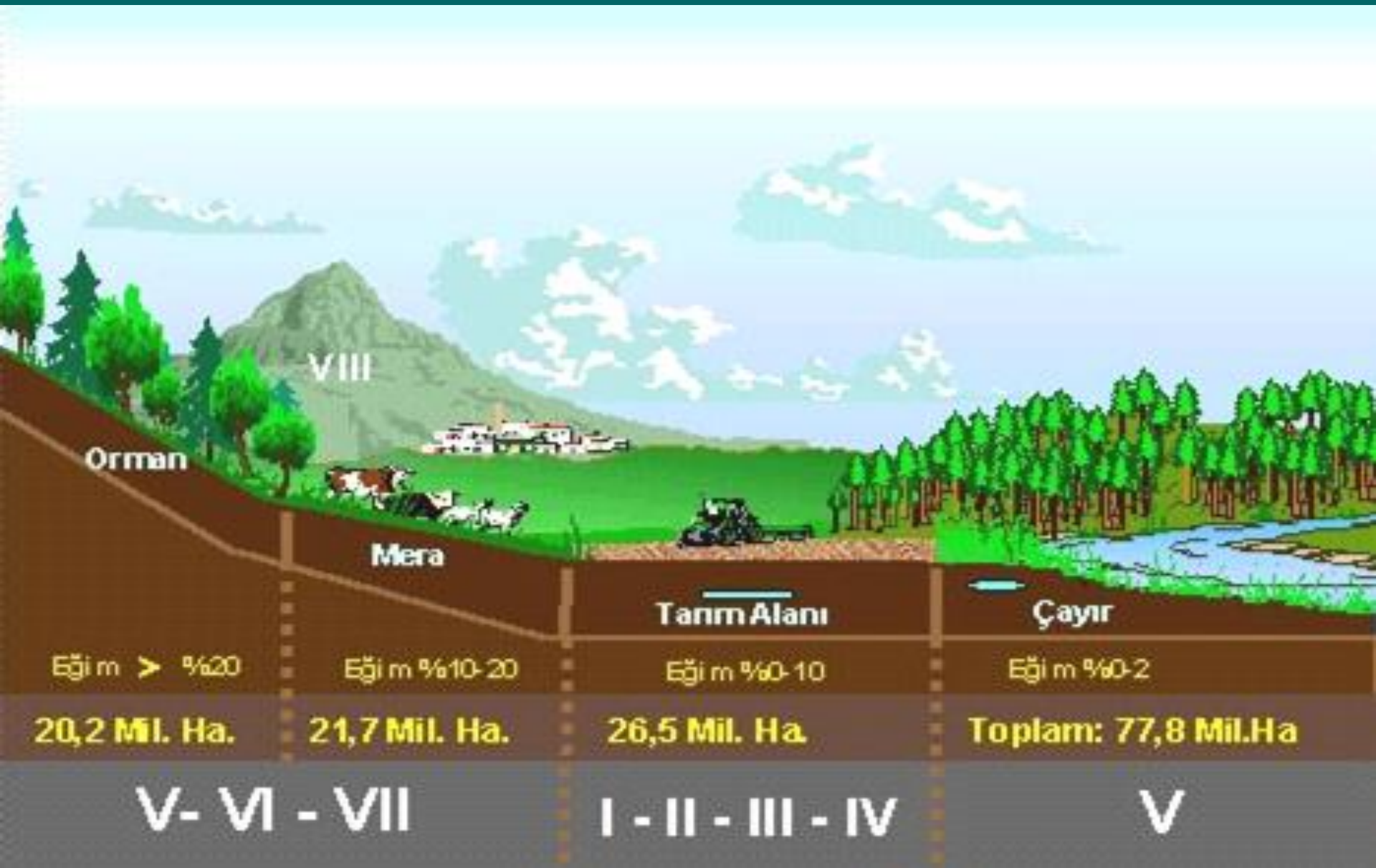
➤ FOR AGRICULTURAL SUSTAINABILITY:

➤ WHAT TO DO?

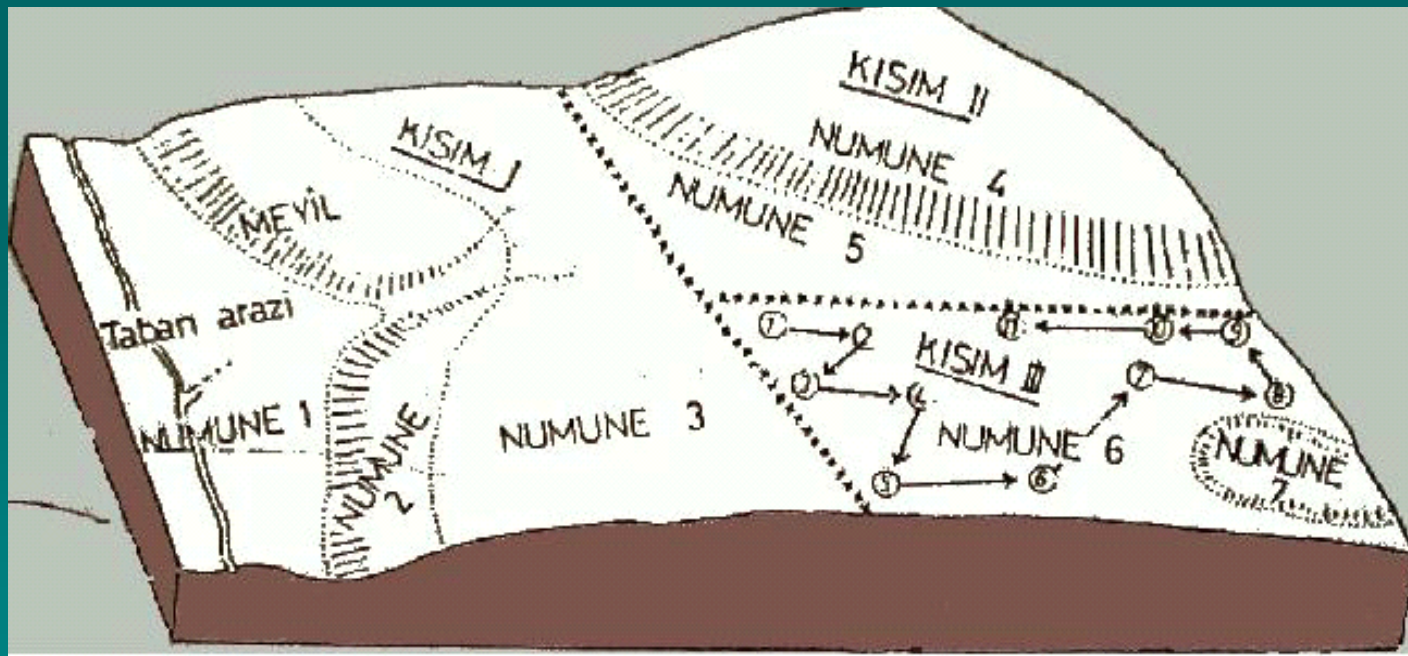
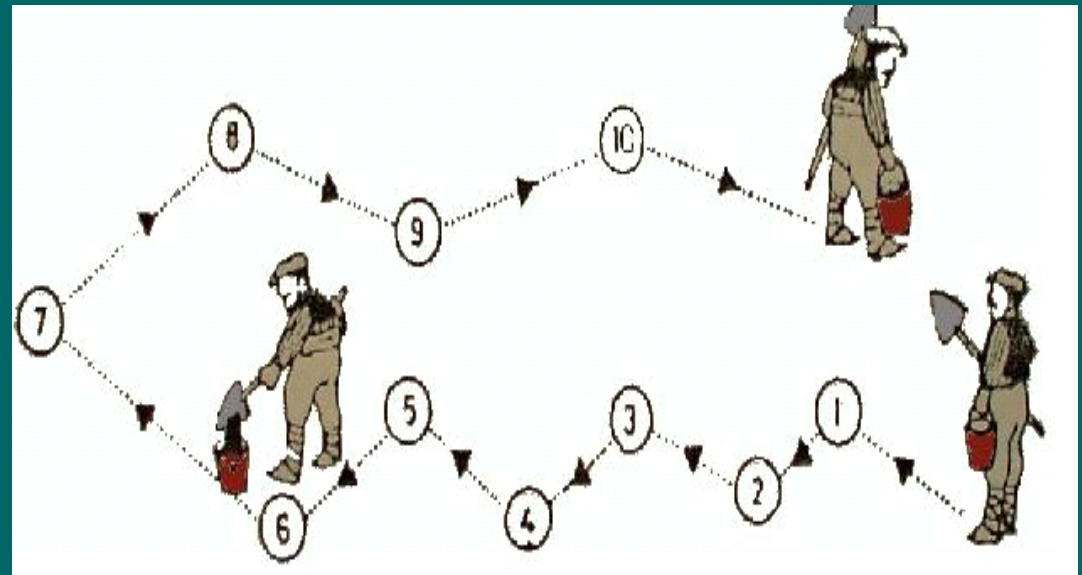
➤ WHY TO DO?



SOIL AND WATER SHOULD BE USED PROPERLY



WE SOULD GET SOIL ANALYZED



TOPRAĞIK YIRTARAK VEYA KARIŐTIRARAK İŐLEYEN ALETLER TERCİH EDİLMELİDİR.



Çizel



Diskli pulluk



Diskaro



Kültüvatör+Döner tırmık kombinasyonu

Erosion



Conventional Farming



тилке жер иштетүү (strip till) (жүгөрү)



WE SHOULD CARRY OUT ROTATION



Arazi, ekim nöbeti planına göre
parsellenerek ekilip dikilmelidir.

<http://www.cazri.res.in/unesco/phg1.html>



Hungarian vetch (*Vicia pannonica*)



Soybean (*Glycine max*)



Sainfoin (*Onobrychis sativa*)



White clover (*Trifolium repens*)



ÇAYIR



NERA

YEM BİTKİLERİ



We should manage well meadow and
pasture



Pasturage should be managed properly
and proper animal strains should be
selected.



Organik hayvancılıkta yöre ekolojisine uygun ırklar seçilmelidir.

For effective using of water, proper irrigation methods should be



Drenage, Solaninity



Aral lake has turned Aral desert.



Akgöl Lake has also turned into a desert (1998)



Instead of surface irrigation methods



Organik tarımda salma sulamaya izin verilmemektedir.



Tava sulama yöntemi organik tarıma uygun değildir.



Karık sulama yöntemi organik tarımda kullanılmaz.

Pressurized irrigation methods should be selected.



Yağmurlama sulama yöntemi organik tarımda uygulanabilir.



Damla sulama sistemi organik tarıma uygundur.



Mini sprinklerler, meyve bahçerinin sulanmasında başarıyla kullanılmaktadır.



Damla sulama yöntemi organik sebze yetiştirilen küçük alanlarda başarıyla uygulanabilmektedir.



Meyve ağçlarında, ağaç tacı iz düşümüne döşenmiş bir damla sulama sistemi.

Organic Farming

(Ecological Farming or Biological Farming)

- It does not allow to use pesticide, chemical fertilizer, hormone, antibiotic and hazardous additions;
- From production to consumption, all processes are controlled and registered;
- It produces healthy products by using natural resources properly.



Manisa Tekelioğlu'nda organik tarım 1986 yılında kuru üzüm ve kuru incir üretimiyle başladı.

2001



Fethiye Yanıklar Köyü

2004



Kuşadası-Kirazlı



2004



Samsun-Terme



İstanbul Büyükşehir Belediyesi 2005-2006'da Doğu Anadoluda 9 ilde organik buğday projesi başlatmıştır.



Organic Products



Çiftliğin ziyarete açılarak organik ürünlerin pazarlanması oldukça etkili bir yoldur. Bu tip çiftlikte restoran, çocuklar için bölüm, araba parkı, tuvalet vb. bulunmalıdır.



www.yariskasi.com

Organik yöntemle üretilen ürünler sertifikalı, organik ürün olduğunu belirten etiket ve logoya sahip ürünlerdir.



Turistik mekanlar, özel restoranlar, okul kantinleri ve otellerde sunulan organik ürünler müşteri talebini artırır.

Some inputs used in organic farming



Kireç, asit toprakların ıslahında kullanılır.



gips, alkali toprakların ıslahında kullanılır.



Ahır, ağıl ve Kümes gübreleri işlemden



Hindistan'da yetişen neem ağacının tohumlarından elde edilen azadirachtin, Asya'da yüzyıllardır böcek öldürücü (insektisit) olarak ve tıbbi amaçlarla kullanılmaktadır.



Deniz yosunu preparatları toz veya sıvı şekile toprağa verilebilir. Bitki gelişimi üzerine etkileri içerdikleri makro ve mikro besin elementleri (N, Ca, Mg, Mn, B, Fe, Zn, Cu, Co) ve doğal bitki büyüme düzenleyicileri gibi bileşiklerden kaynaklanmaktadır.

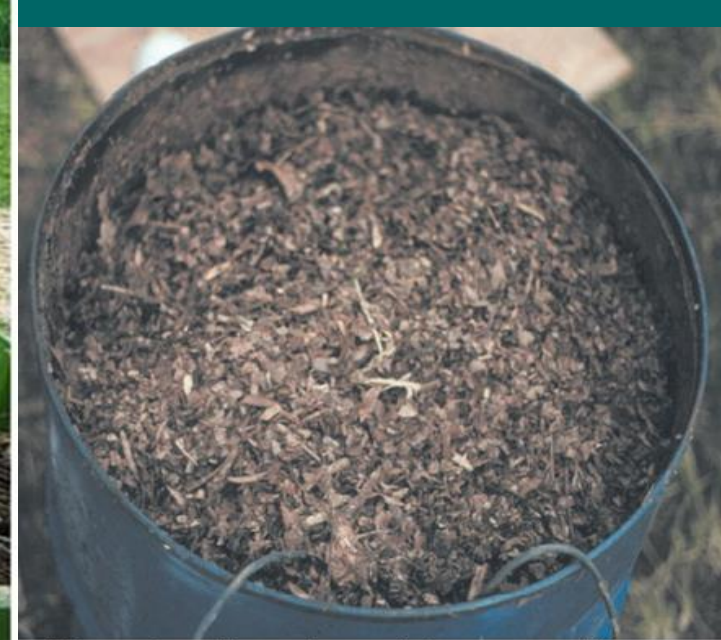


gübreler azot bağlayan, fosfor ve selülozik bakteri ve mantarlar





Yığın usulü kompostun basit bir yapılış şekli.



Çiftlik organik artıkları varil içerisinde kompost yapılabilir.
Iowa State University Extension, 2003.

All farm animal leftovers, plant residues and home organic wastes can be used for compost.



Compost is made from organic leftovers by decomposition under aerobic conditions. It lasts about a year and it needs to be mixed 3-4 times.

Vermicompost

Биотор от червен калифорнийски червей



Wind is a clean energy resource.



We should benefit from geothermal energy



Batman-Kozluk-Taşlıdere köyü
jeotermal sera



Afyonkarahisar-Çobanlar
ilçesi jeotermal sera



Cavlak-Boğazlıyan-Yozgat

Modern biyokütle enerjisi

Isı, elektrik, sıvı ve gaz yakıtlar elde edilir.

- Modern biyokütle enerjisi üretiminde yararlanılan kaynaklar:
 - Enerji ormanları: Kavak, titrek kavak, söğüt ve okaliptus gibi hızlı gelişen odunsu bitkilerin üretilmesi
 - Enerji tarlaları: Darılar, mısır, sorgum, miskantus, okaliptus, titrek kavak ve yağ bitkilerinin tarla üretimleri
 - Tarımsal yan ürünler: sap, saman, hayvan dışkısı, melas, yağ vb.

We should increase oil seed production for edible oil and biodiesel



Safflower (*Carthamus tinctorius*)



Canola (*Brassica napus*)

Oil seeds for biodiesel production



From field



To your vehicle



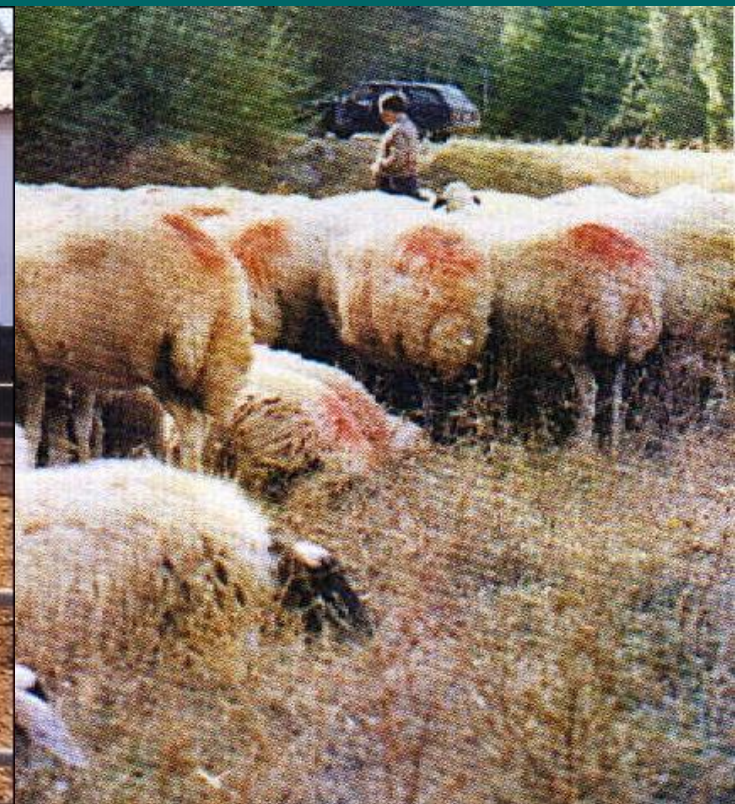
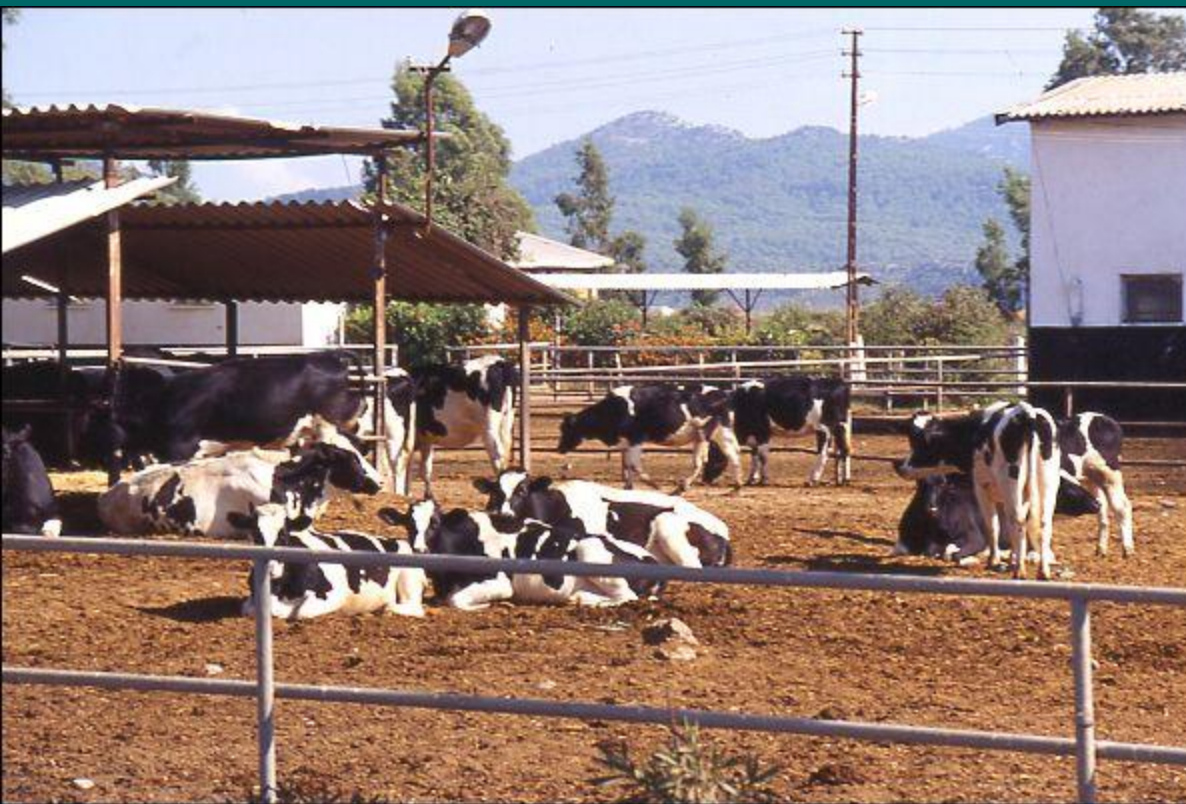
Energy plants and plant leftover can be used for ethanol production

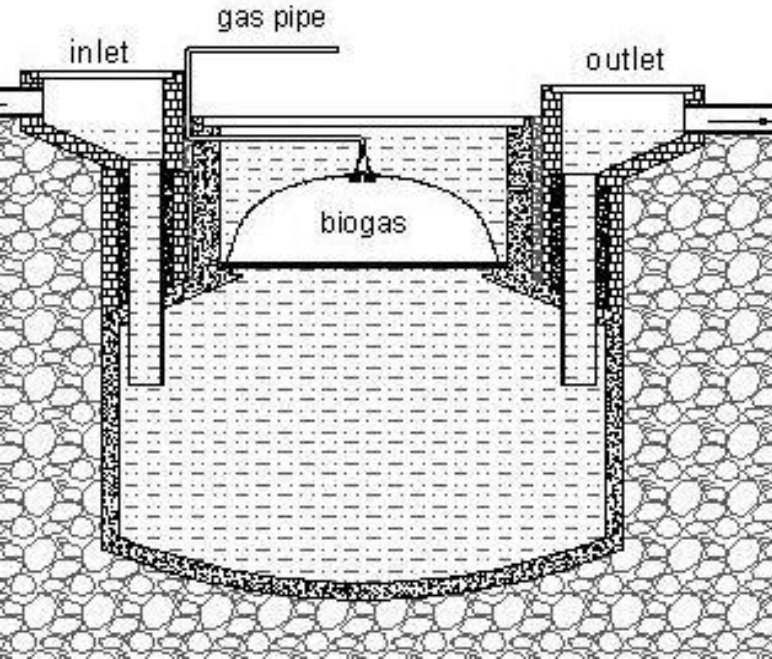
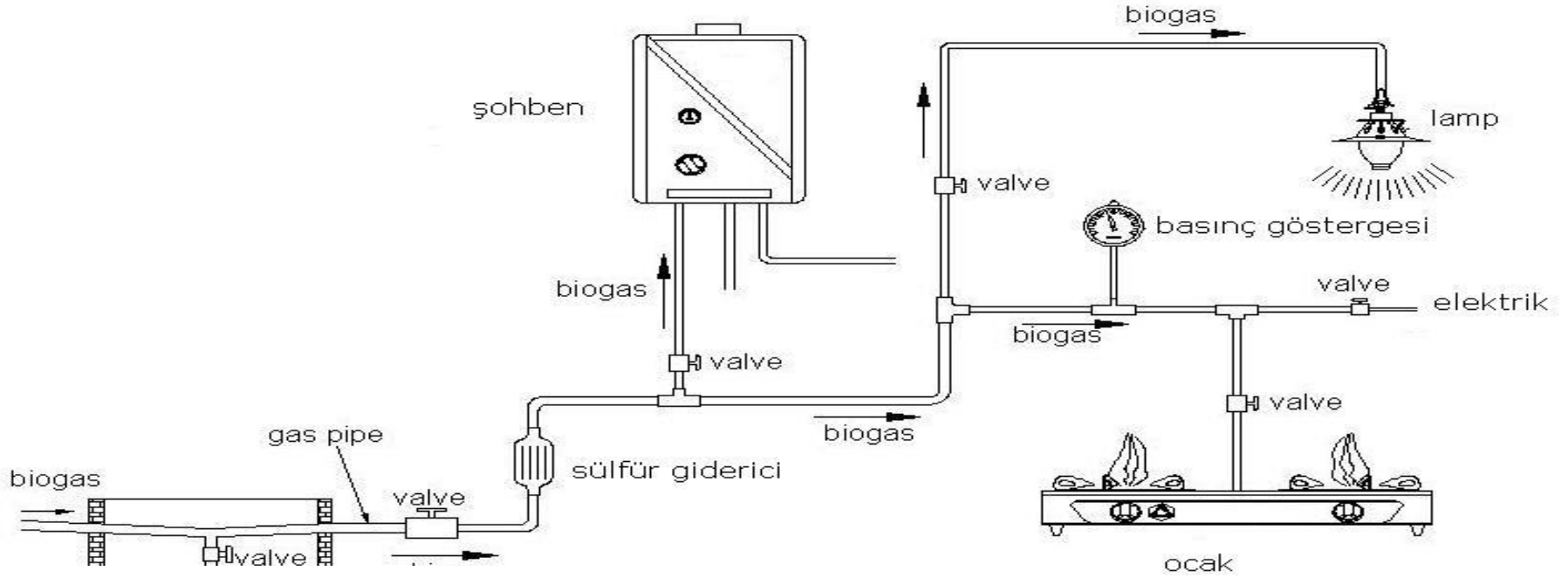


Etanol üretiminde kullanılan bitkiler



Biogase Production from Manure and other organic wastes





Biyogaz; aydınlatma, şofben-ocak-fırınlarda ısıtma ve elektrik üretimi amacıyla kullanılabilir.

www.soleaenerji.com

15 m³ LÜK BİYOGAZ TESİSİNDEN GÖRÜNTÜLER



Biogas production can also create good-quality organic fertilizer



Biogas can be used in gasoline-powered vehicles



Biodiversity

The Black Sea Flora



КЫРГЫЗСТАНДЫН ӨСҮМДҮКТӨРҮ

KIRGIZISTAN `IN BİTKİLERİ

NAZGUL IMANBERDIEVA



Nesli tehlikede olan; Ağlayan gelin, Ters lale
(Hakkari: *Fritillaria imperialis*, Kerbela, Kral
lesi)



BAZI ÖNEMLİ UÇUCU YAĞ BİTKİLERİ



Kekik



Adaçayı



Lavanta



Nane



Melissa



Biberiye



Çörekotu



Anason



Safran



Defne



Karabiber/Akbiber



Çemen



Yenibahar



Karanfil



Tarçın



K.Hind.cevizi



Kakule



Zencefil



Zerdeçal



Kıyış



Rezene



Kimyon



Çörekotu

Baharat Bitkileri

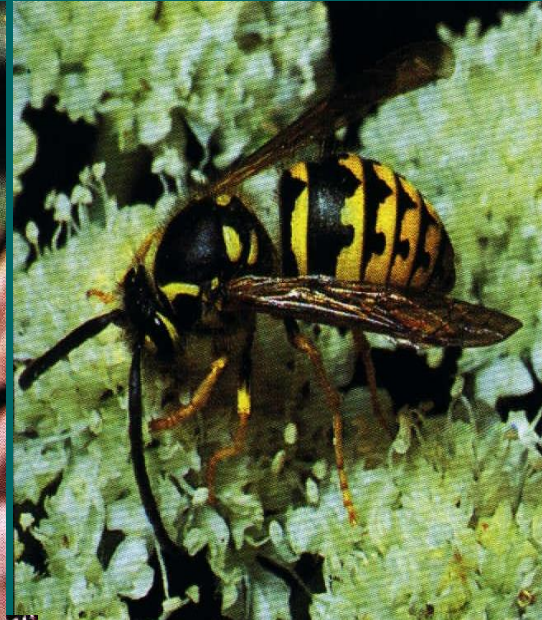
BİYOÇEŞİTLİLİK ÖRNEKLERİ



Spraying in wheat field



Insects and birds play an important role in pollination.



Whitefly and its parasitoid (*Encarsia formosa*)



Bats are natural enemy of some insects such as cotton bollworm and European corn borer



Hunting

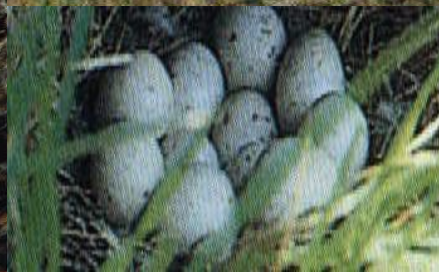
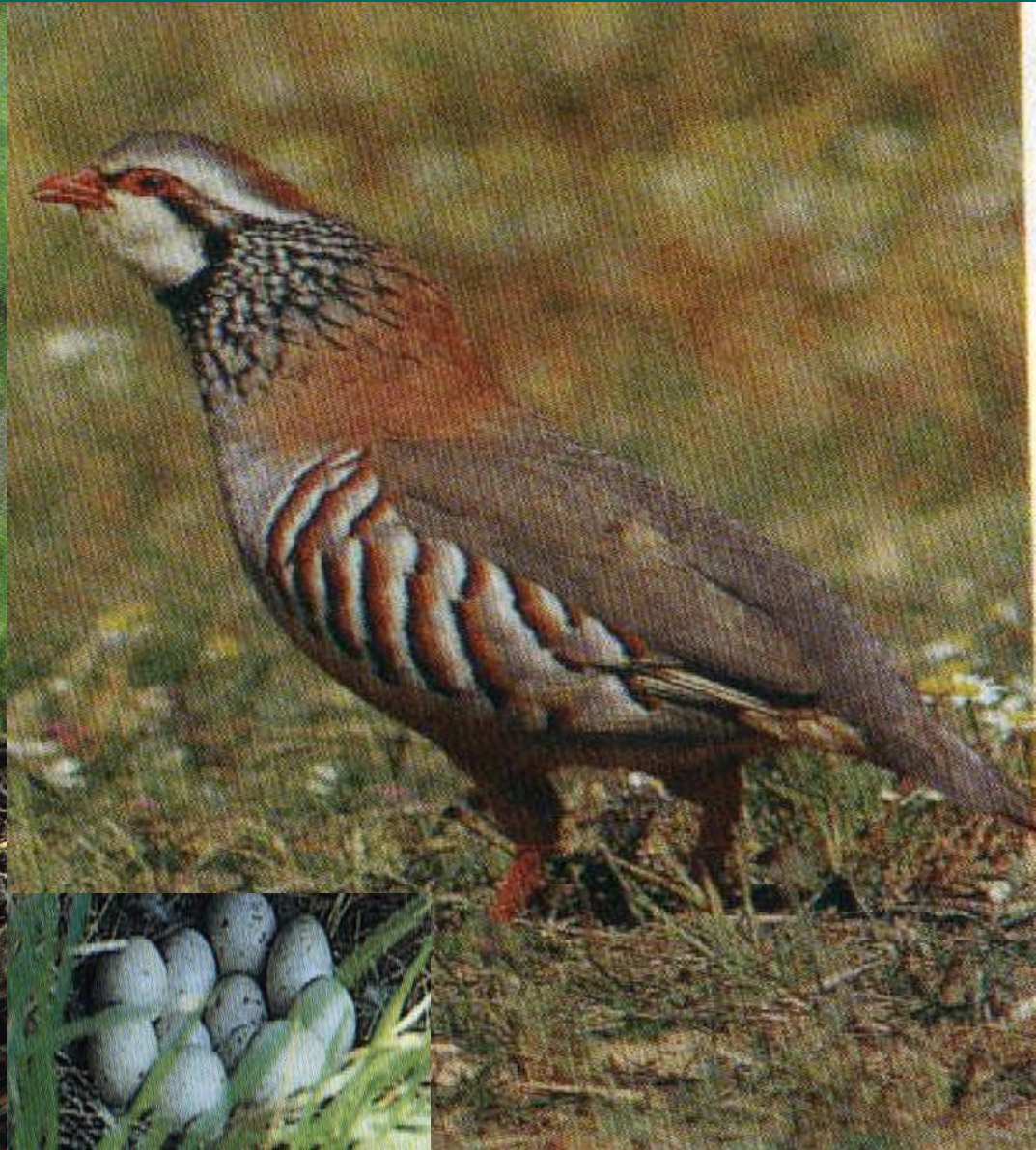


Some extinct and endangered animals in Turkey

(Anadolu leoparı, kelaynak, dağ keçisi, ceylan, vaşak and etc.)



Hunting should be sustainable.



We should protect inheritance of natural resources and culture











19 April 2009 IV. Photosafari-Photography Competition at Sultan Sazlığı



Income-generating Rural Development Activities



Bostaniçi Beldesi
DAKP ve KIR-DER

Dekoratif El Sanatları Kursu (Buca)

Halicilik Kursu
(Erzurum)





Kökboya



1.Boyama



2.Boyama



3.Boyama

**Doğal Boyamacılık
(KÖKBOYACILIK)**



Ünlü Isparta Halısı







Coğrafi İşaret Tescili

Geographical Indication

➤ Uluslararası Coğrafi İşaretler Ağı (OriGIn)

The Organization for an International Geographical Indications Network

<http://www.origin-gi.com>

Geneva, Switzerland



➤ Türk Patent Enstitüsü:

<http://www.tpe.gov.tr>



➤ Avrup Birliği (EU):

<http://ec.europa.eu/agriculture/quality/schemes>



**protected designation of origin (PDO),
protected geographical indication (PGI),
traditional specialities guaranteed (TSG).**

TEŞEKKÜRLER!
ЧОН ЫРАХМАТ!
THANKS!

