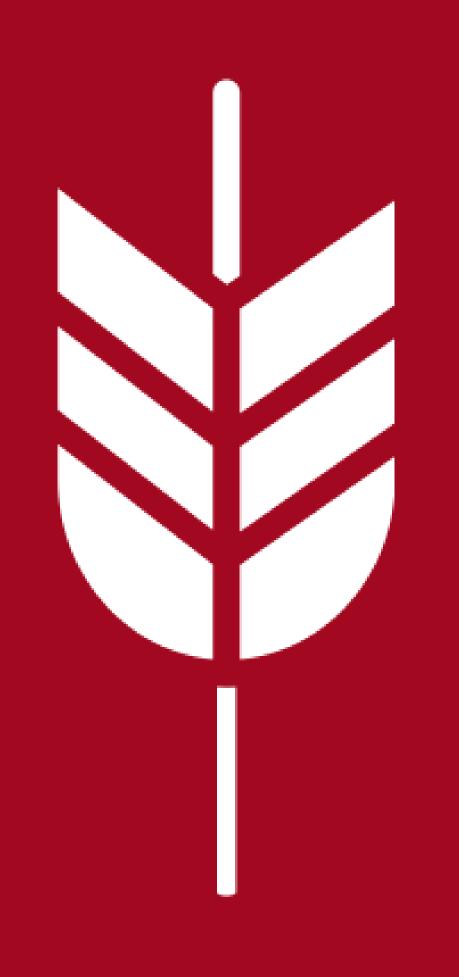
Agriculture in Türkiye

Prof. Dr. Celal TAŞDOĞAN

A Case Study: Turkish Agriculture Sector in Terms of Sustainability





Some Problems in Turkish Agriculture

- arable lands
- High cost of inputs
- Low yield and quality in cereals
- Lack of planning
- Migration from rural to urban
- Aging agricultural population
- Lack of education
- Difficulty in accessing finance
- Problems in cooperative structures
- Inefficiency of markets
- Low dissemination of information

• Multi-plot and scattered arrangement of

• Inefficient use of natural resources • Lack of mechanization and technology



Priorities for Sustainability

- (restorative agriculture).
- at the right time (Drip Method)
- agriculture.
- child labor and informal employment
- people seeking employment
- applications

• Some of the good agricultural practices that ensure that soil, air, water and minerals are conserved and enriched are in terms of quality • Irrigation of soil and plants at the right amount

• Use of technological machinery and equipment in

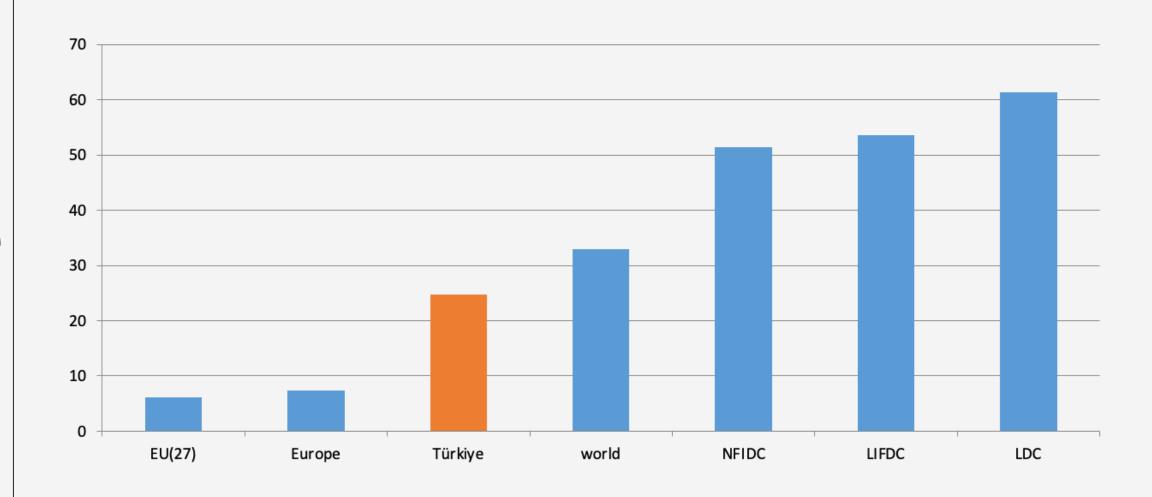
• Legal assurance of workers' rights, prevention of

• Making agricultural activities attractive to

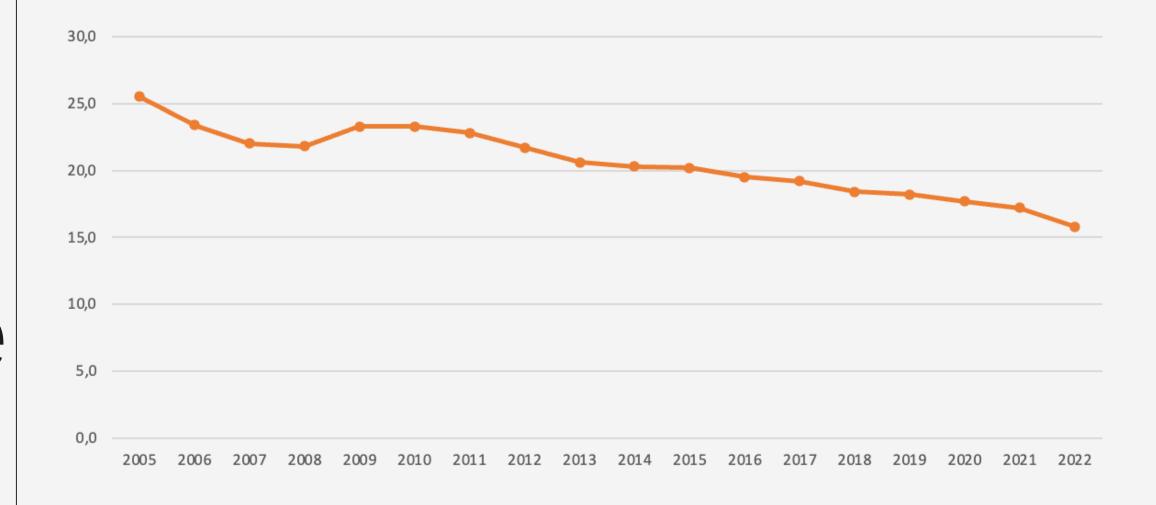
• Efficiency and value-added digital transformation

• Supporting small farmers to implement good

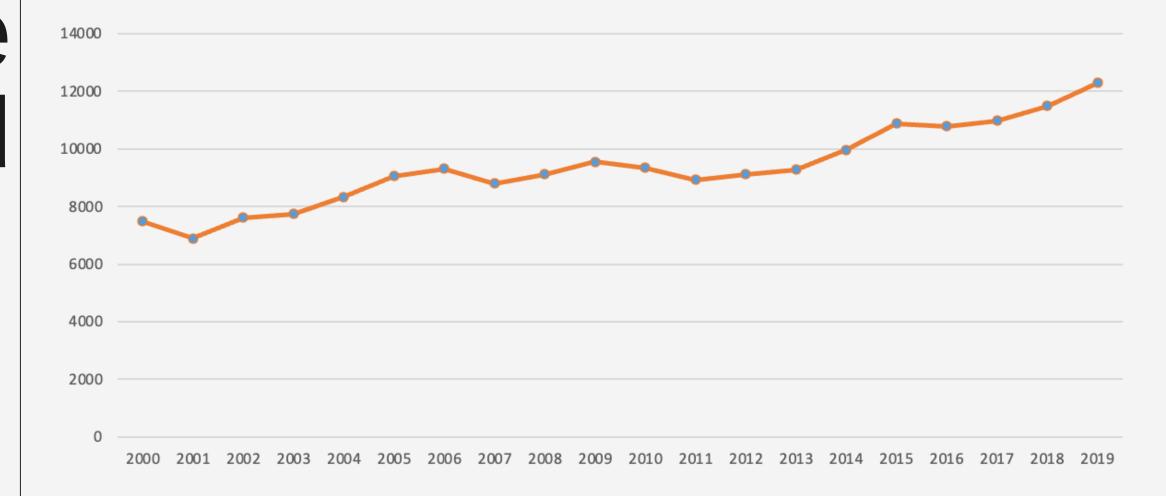
Share of Employment lnAgriculture , Forestry and Fishing in Total Employment



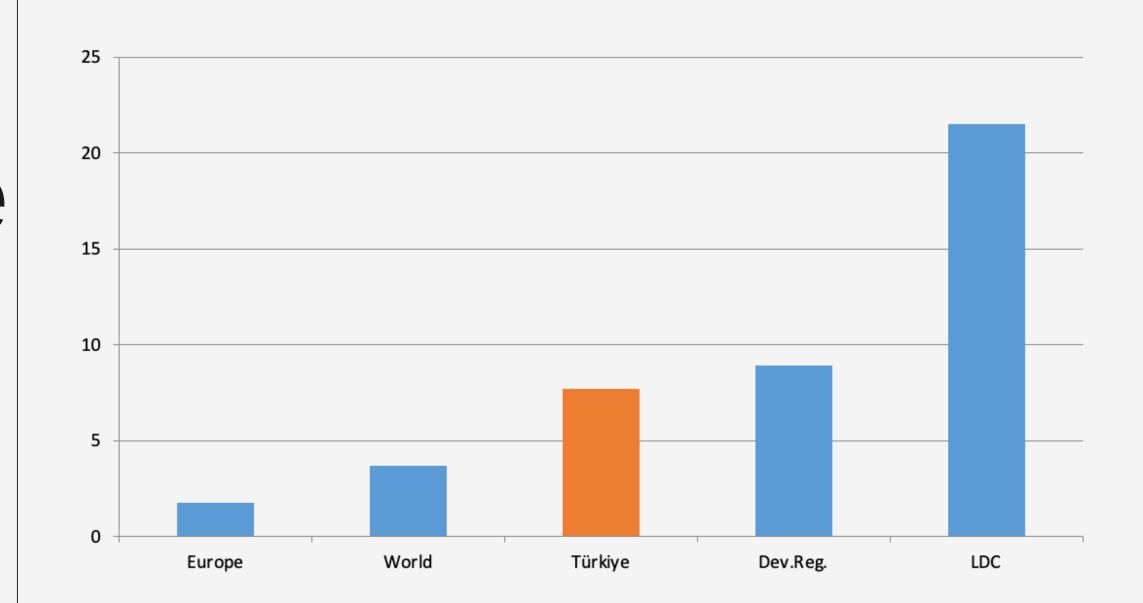
Share of Employment **1n** Agriculture Sector in Turkiye (%)



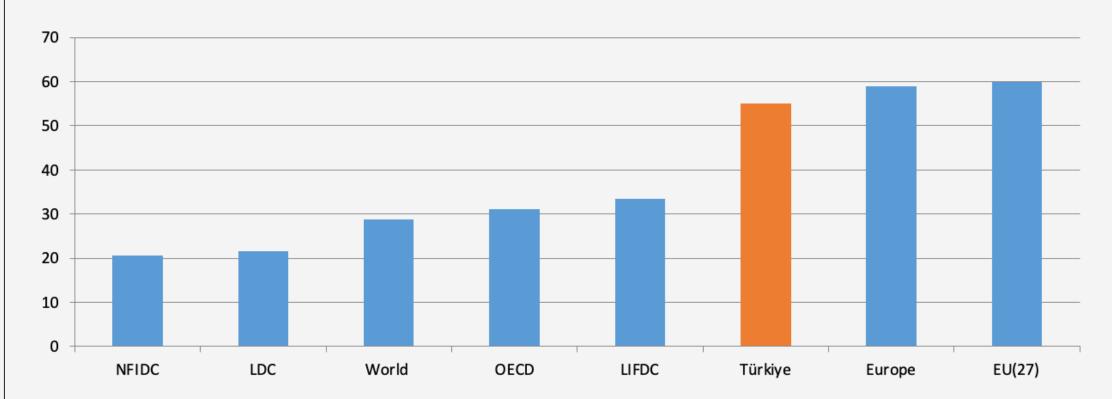
Agriculture Value Added per Worker (constant, 2015 US\$)



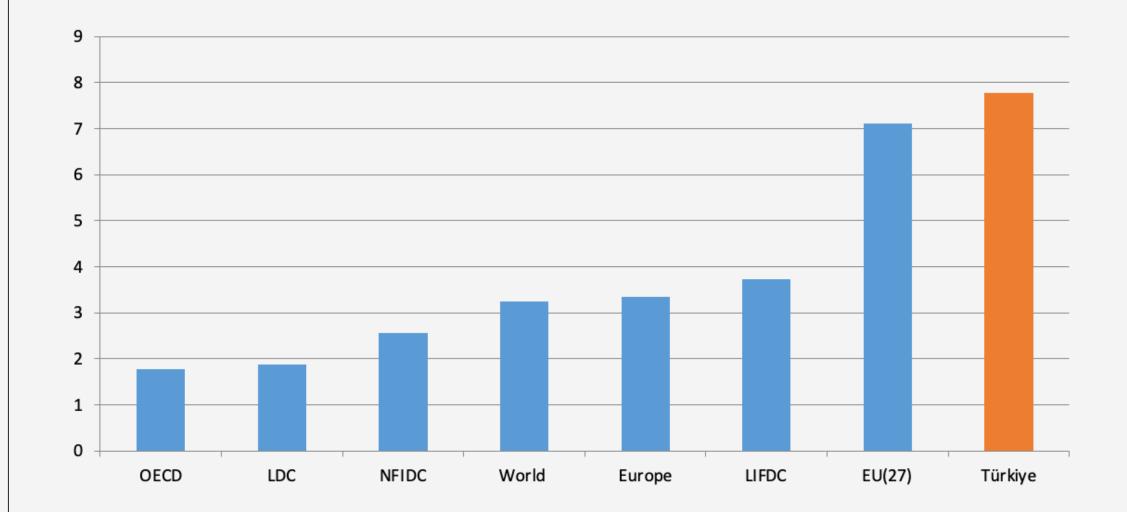
Agriculture Value Added, Share of GDP



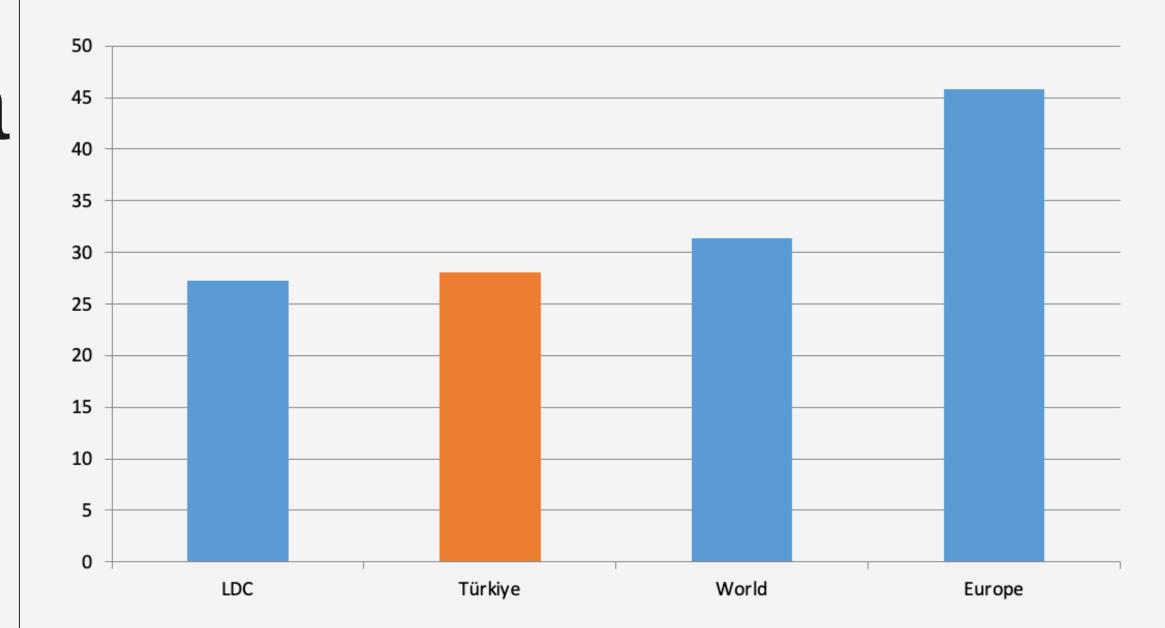
Shares in Arable Land



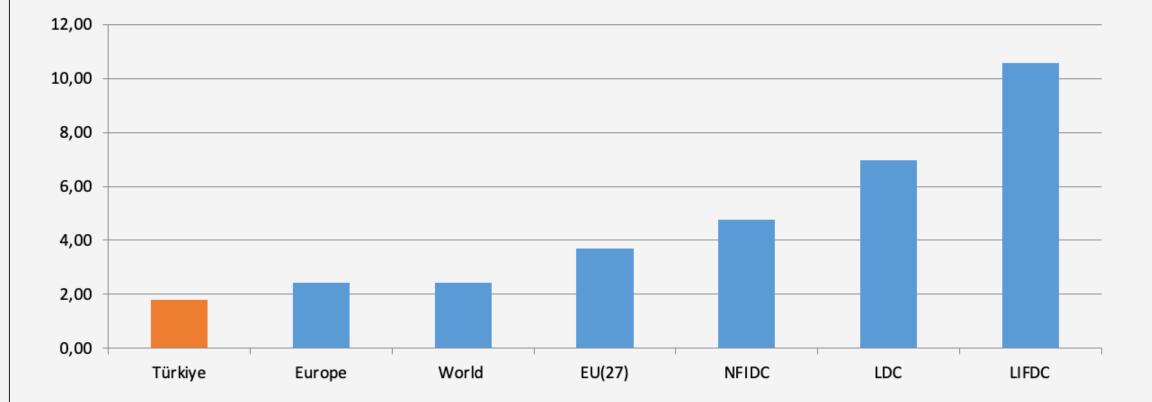
Land Under Permanent Crops



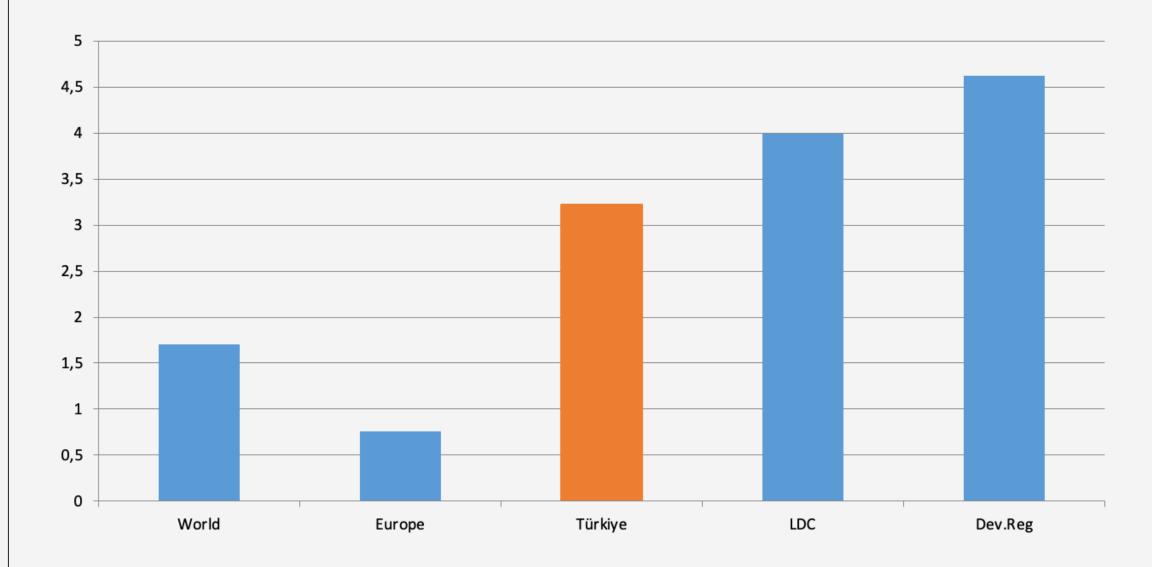
Forest Area as a Proportion of Total Land Area



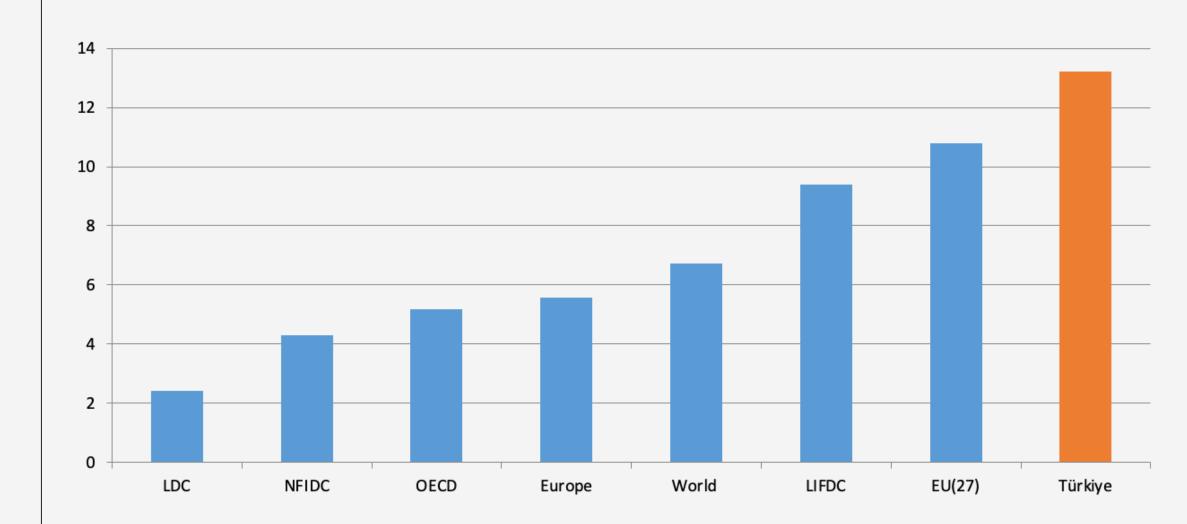
Share of Total Credit, US\$



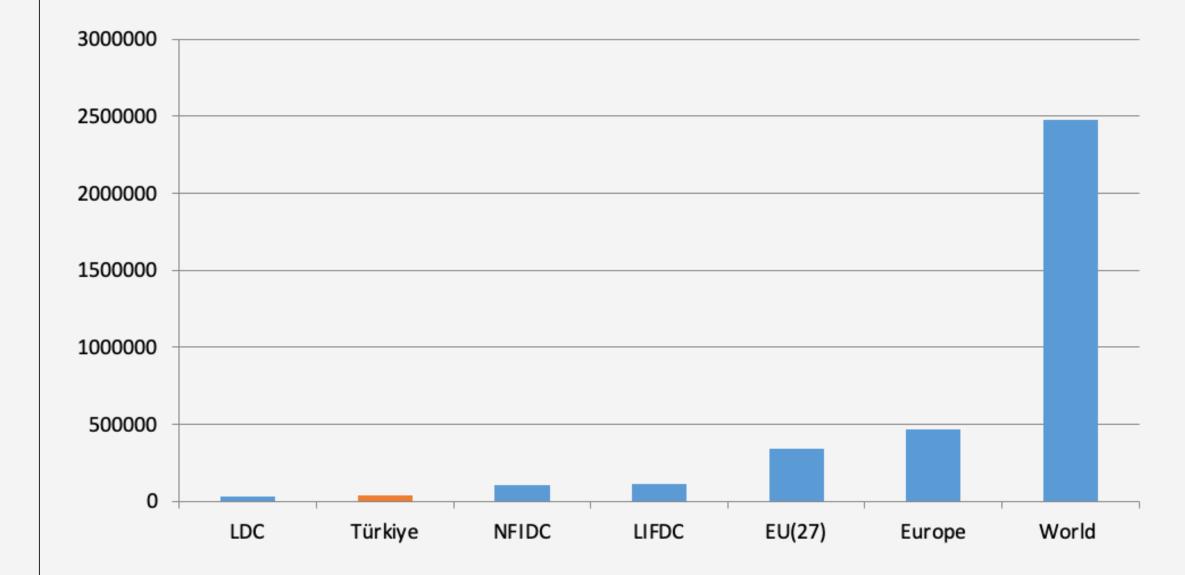
Share of Agriculture in Government Expenditure



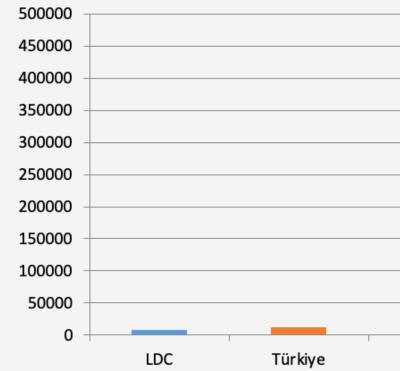
Land area Equipped for Irrigation



Pesticide Use

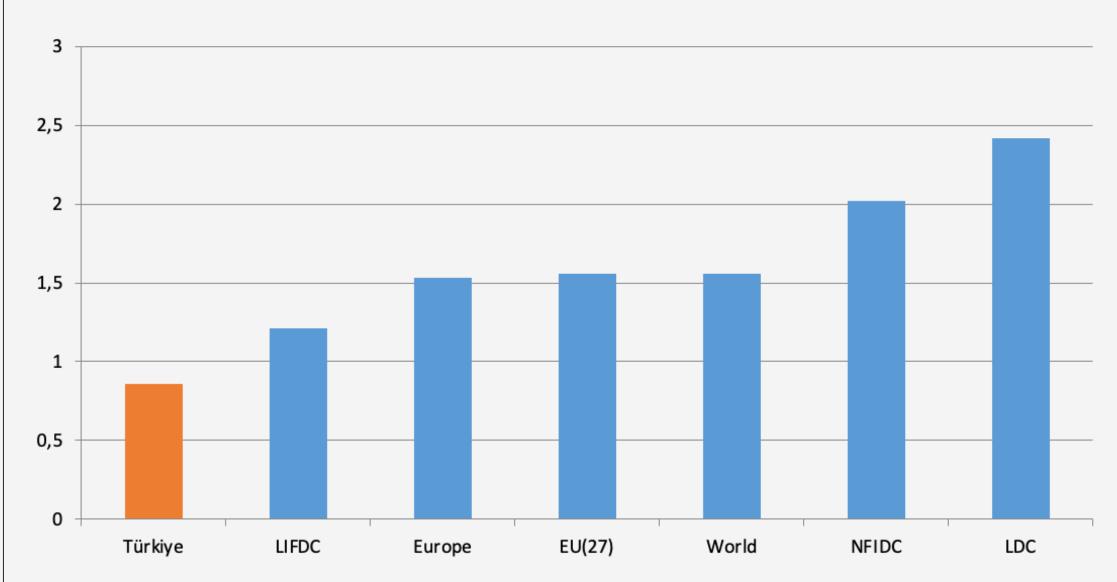


Insecticide S

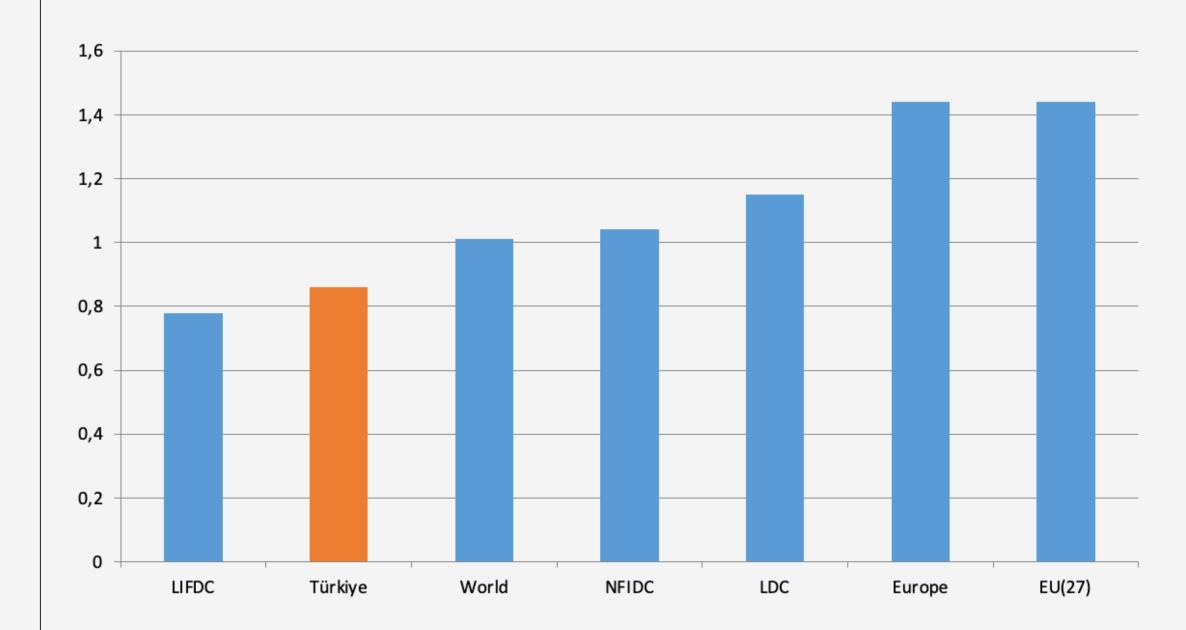


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NFIDC	EU(27)	,	LIFDC	Europe	,	World	

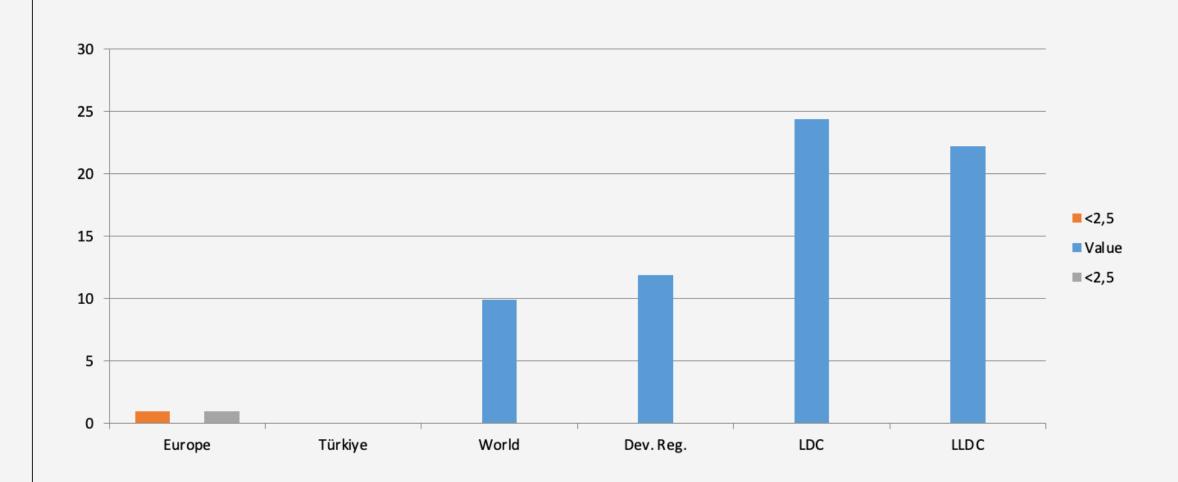
Emission Shares of Agriculture Land



Emissions from Farm Gate



Prevalence of Undernourishme nt as SDG Indicator



New Trends in Good Agricultur a Practices

- production.
- only as needed.

 A data-driven management approach is applied to keep productivity at the optimum levels at every stage of agricultural

 Dry farming essentially refers to agricultural production activities in which water is used

Hydroponic Agriculture

 Vertical fields are an alternative agricultural production method that does not require agricultural land and replaces the sun in indoor environments such as buildings, containers, warehouses and houses.



Investment Opportuniti es

- Productic systems
- Tractor, tractor attachments and farm equipment production
- Electric or hydrogen fueled vehicles
- Agricultural applications using artificial intelligence
- Renewable energy generation and storage
- Less harmful chemical additives to nature
- Energy and resource efficient processes
- Effective waste management

Production and trade of drip irrigation