

United Nations Economic and Social Commission for Western Asia

The Agricultural Sector of Lebanon

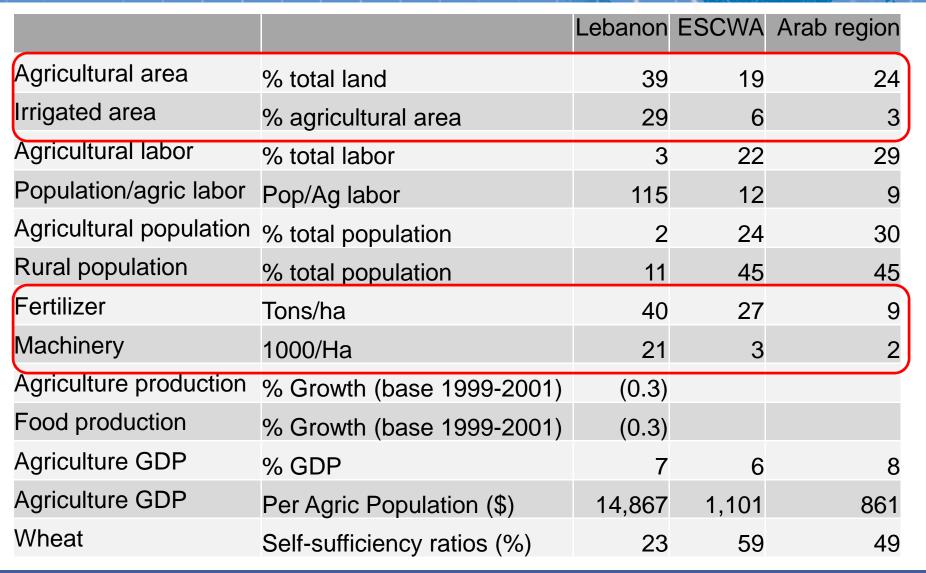
Fidèle Byiringiro Productive Sectors Section Sustainable Development and Productivity Division

National Consultation on Microinsurance as a Tool for Extending Social Protection

Beirut, Lebanon, 1 October 2013



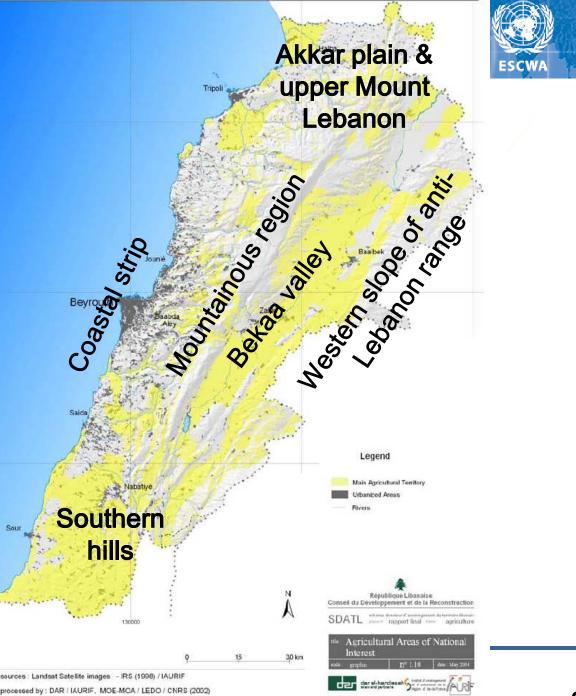
Agriculture at a glance



Source: FAOSTAT (2010)

Main agricultural areas

- Coastal strip: citrus, banana & horticulture & greenhouse production
- Akkar plain with upper Mount Lebanon: cereals, potatoes, grapes & vegetables
- **Bekaa valley**: potatoes, grains, fruits & vegetables
- Mountainous region: orchards & vegetables
- Western slope of Anti-Lebanon range: grapes, olives & cherries
- Southern hills: olives, tobacco, almonds & grains

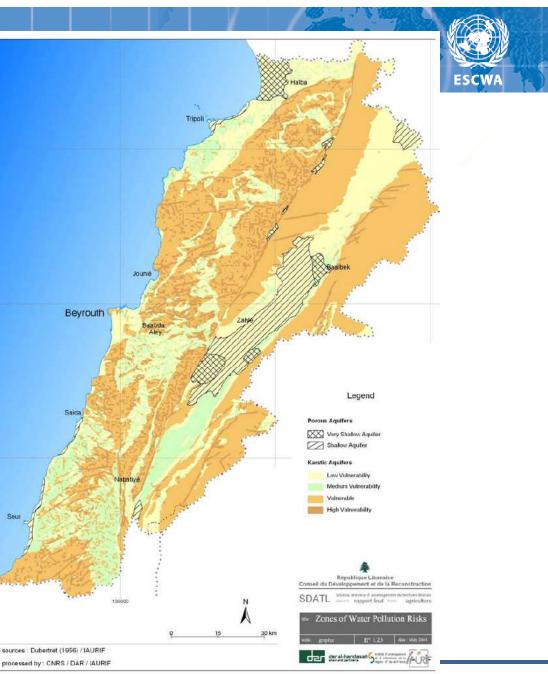


Source: CDR (2005)

Water vulnerability

Year	Irrigated area (1000 ha)	Total water (Mm ³ /year)
2005	160	1,140
2010	190	1,280
2015	195	1,450
2020	195	1,450
2025	212	1,272
2030	235	1,410
Source: CDR (2005)		

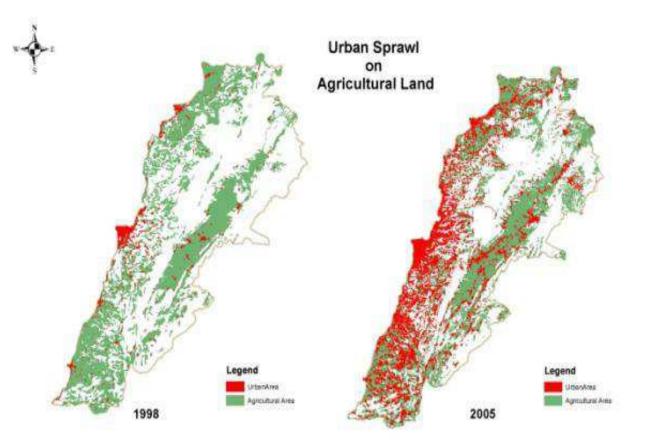
Increasing water scarcity and agriculture intensification should lead to more demand for irrigation



Source: CDR (2005)

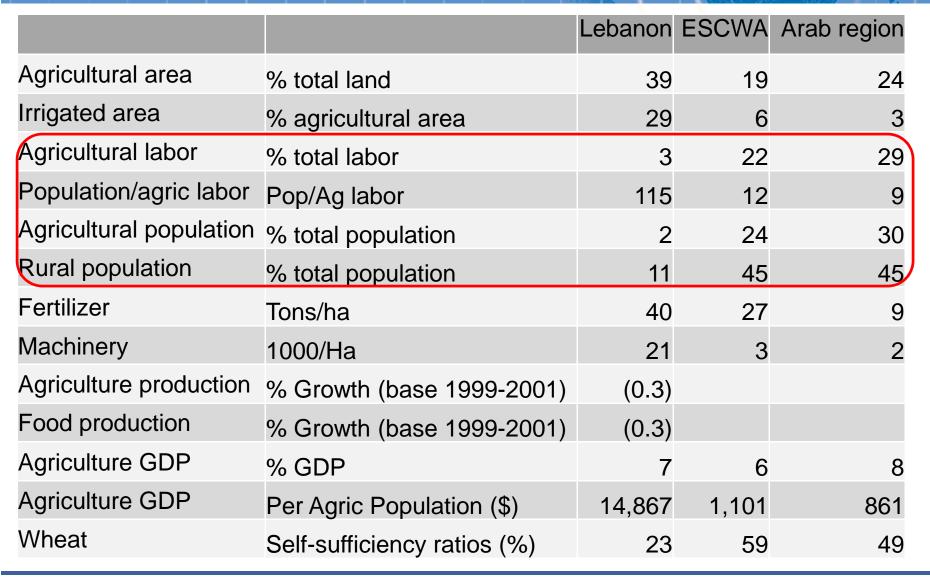
Urbanization risk

- High pressure on cultivated land
- More intensification: more chemical use, increased water for irrigation, etc.
- Increasing water demand to meet water demand in the domestic and industrial sector. MoE estimate that by 2015 a little bit more than 30% of water will be used for other activities



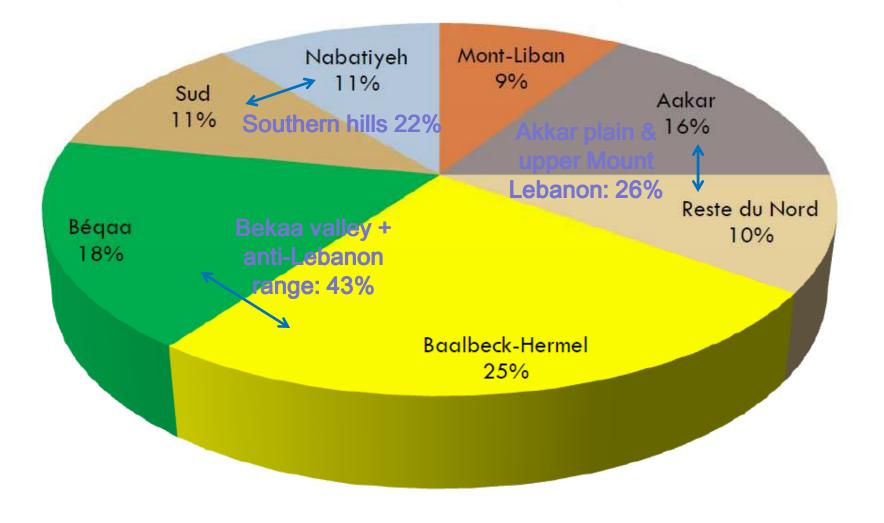
Source: UNDP/MoE (2010)

Agriculture at a glance



Source: FAOSTAT (2010)

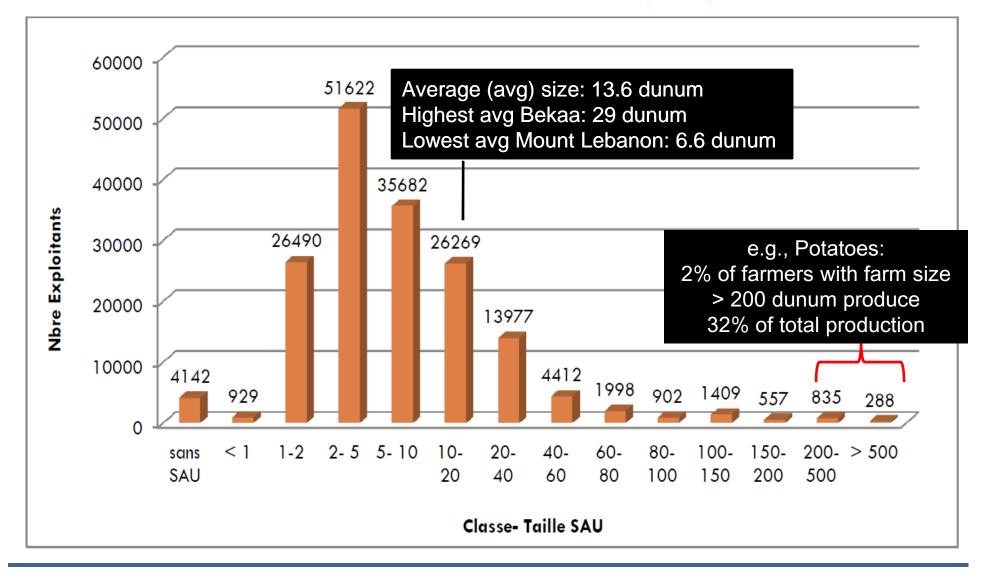
Distribution of farms



Source: MoA et al (2012)

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Farm sizes



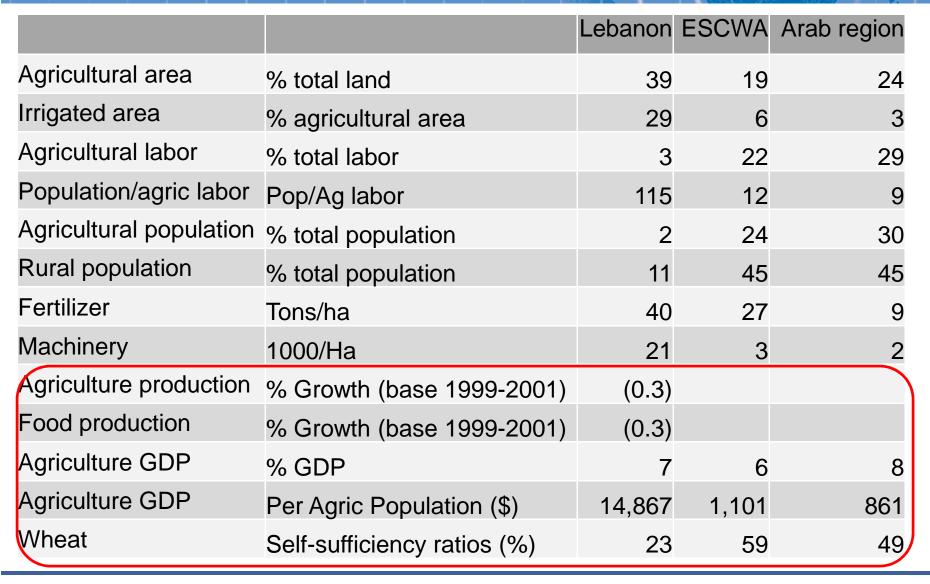
Source: MoA et al (2012)

ESCW

Other issues (risks)

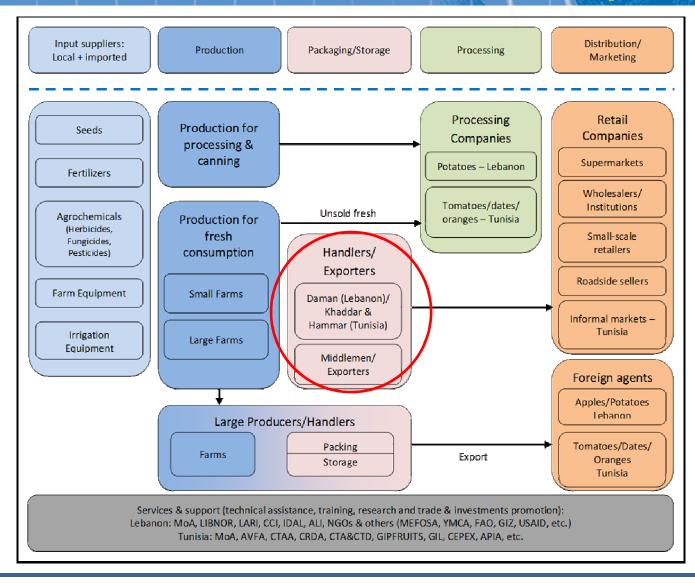
- <u>Age</u>: < 35 years 11% & > 65 years: 23%
- <u>Social security</u>: 75% have no access
- <u>Second income</u>: None for about 50%
- <u>Extension services</u>: less than 11% receive it but 86% get it through input providers
- <u>Cooperatives</u>: 96% do not belong to one
- <u>Credit</u>: only 1% of farmers used it
- Irrigation: about 50% use some form of irrigation

Agriculture at a glance



Source: FAOSTAT (2010)

Agriculture value chain map



Source: ESCWA (Forthcoming)

Issues in value chains

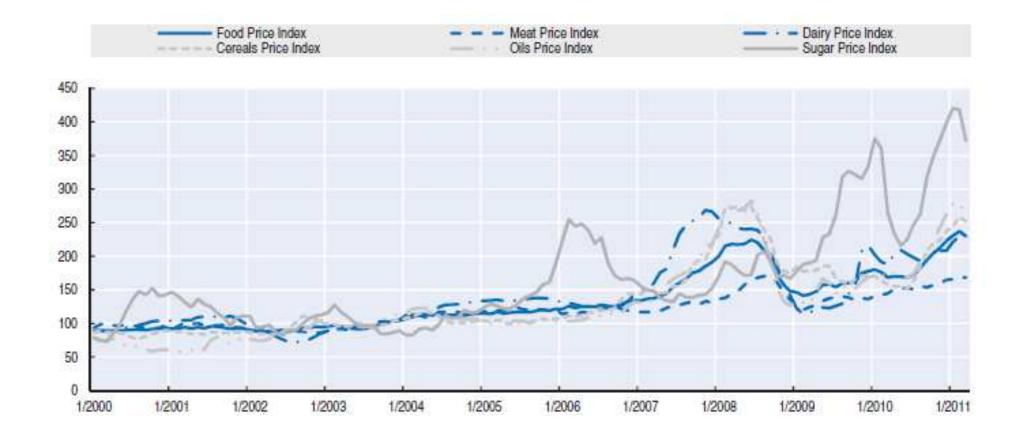
Daman (intermediary):

- Buys entire production well before harvest taking in charge all remaining activities until harvest
- Farmers (mostly small holders) get low prices but are guaranteed a fixed income and early in the season

ALTERNATIVE

• Potential of getting a higher price at the end of the season but at with risk/uncertainty

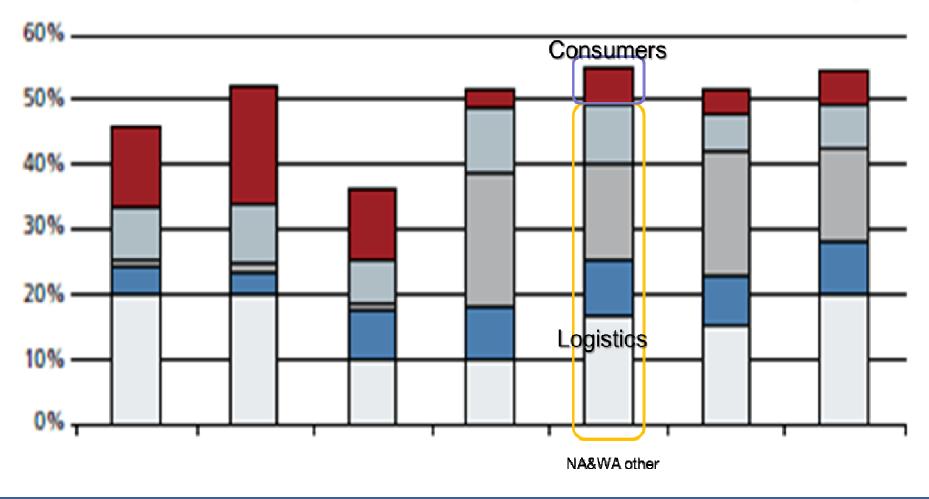
World agricultural prices



ESCWA

Losses & wastes

Fruits & vegetables

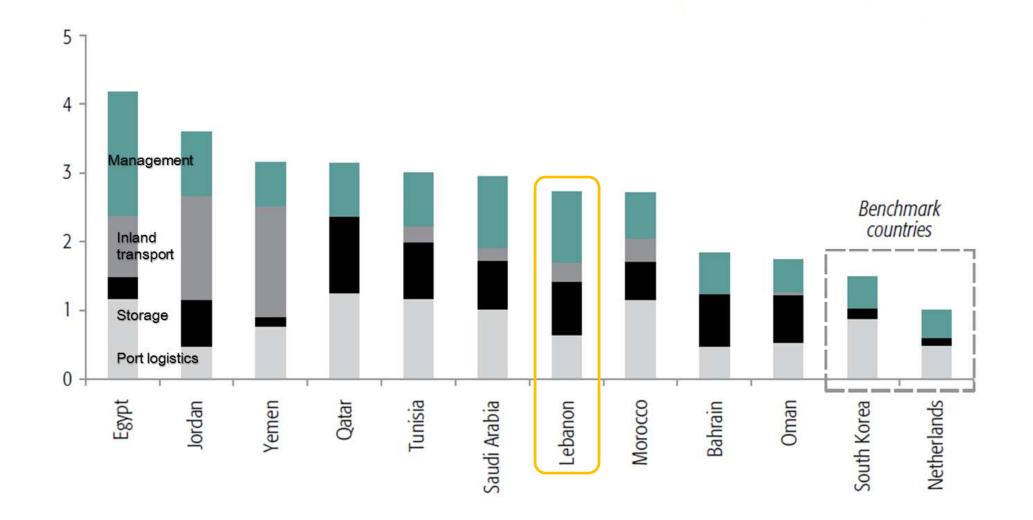


Source: Adapted from Gustavsson et al (2011)

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Logistic costs





Source: Adapted from World Bank & FAO (2011)

Role of government

- Setting proper laws and an adequate environment for financing and innovation (innovative financial products)
- Supporting farmers esp. small holders (to access credit and other products)
- Ensuring a good flow of information (particularly towards small farmers)
- Developing & strengthening rural infrastructures

Concluding remarks

- Impact of climate change will greatly impact agriculture
- Investments (both from private and public sector) are still low given the numerous challenges
- Annual budget to agriculture: 1-3% of annual budget
- Smallness of plots makes agriculture
 unprofitable

Thank you!



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