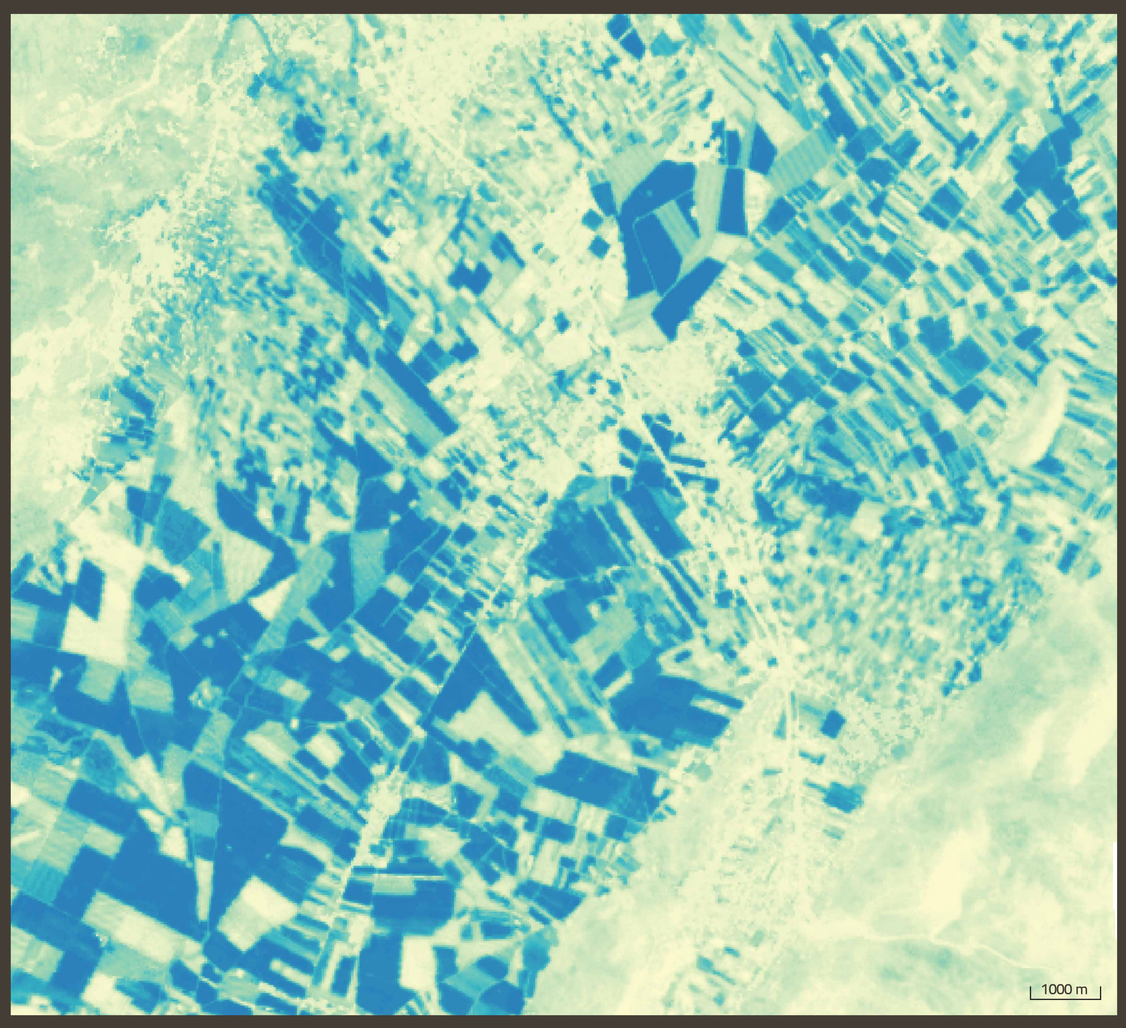
Food and Agriculture Organization
of the United Nations

FAO WaPOR SUB-NATIONAL LEVEL MAPS (30M)

ASSESSING THE WATER CONSUMPTION OF CROPS | BEKAA, LEBANON

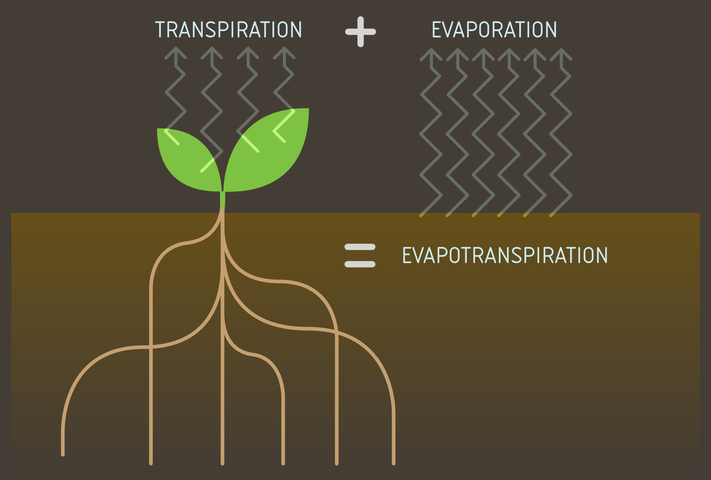


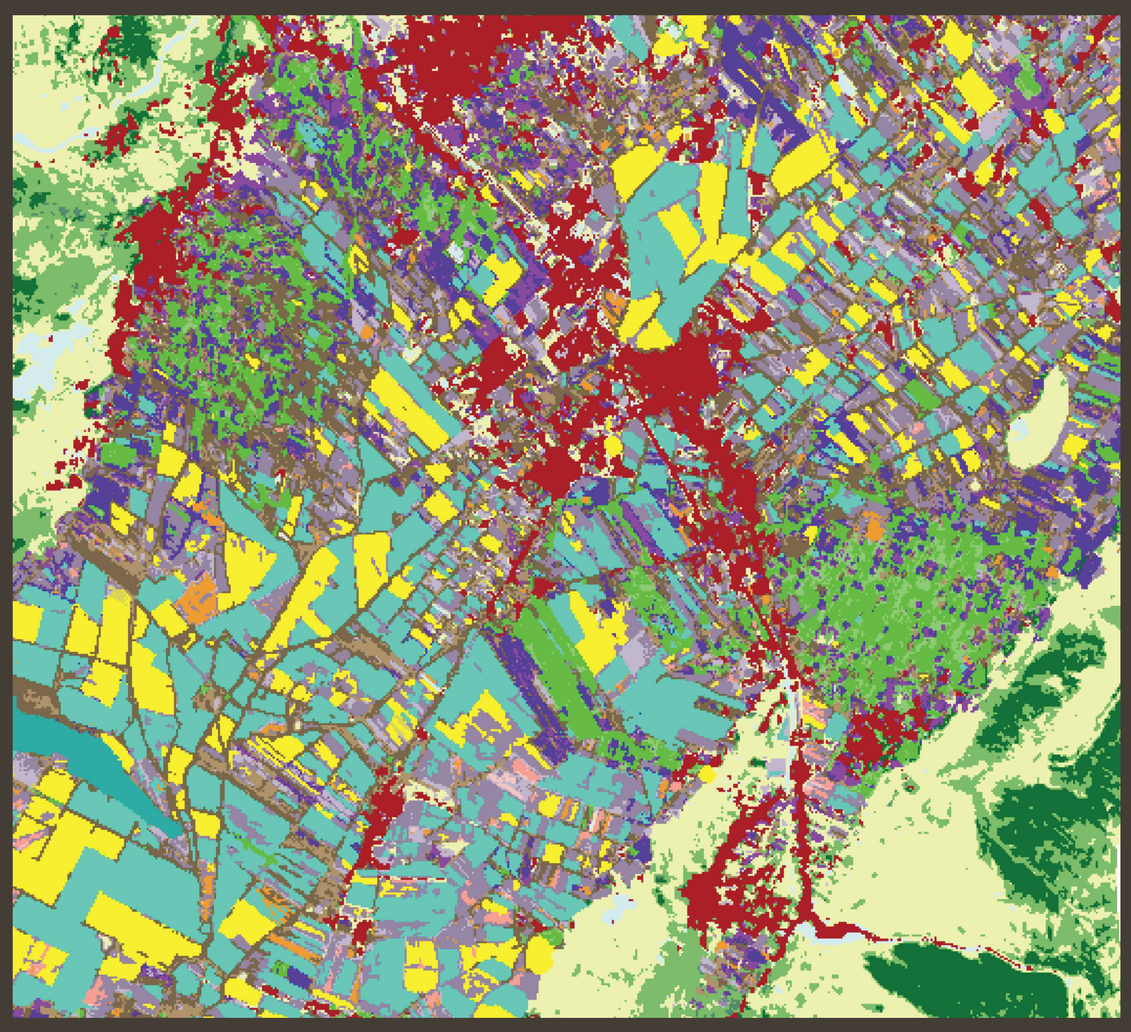
This map shows the amount of water consumed through **evapotranspiration**, or the amount of water released back into the air through soil evaporation and plant transpiration, per day, in millimetres. Timely information on water consumption represents a critical tool for improving water management in agriculture and irrigation. For example, it provides an objective and common information base for discussing consumption-related water quotas, or for monitoring the impact of irrigation on water resources. All data are made publicly accessible, thereby allowing for participatory planning. Further distinction between evaporation and transpiration, as allowed by WaPOR, provides key information for reducing non-beneficial water consumption.

Legend (water consumed, mm/day)

- 0.1 mm
- 2.5 mm
- 5.0 mm
- 7.5 mm
- 10 mm

Evapotranspiration is a key component of the water cycle in agriculture and is a combination of **evaporation** and plant **transpiration**.





Here, **land cover classification** is used to identify the spatial distribution of various crops.

This map shows the land cover classification of the same area as the one represented in the evapotranspiration map on the left. This allows for the identification of the most common crops grown in any area.

If information from both maps, land cover and evapotranspiration, are combined, it can help with setting policies to target specific problem areas, and providing farmers with recommendations on which agronomic practices best suit their cropping patterns.

Legend (crop type)

- Wetland
- Grassland
- Bare
- Artificial
- Fallow
- Maize
- Potato
- Vegetables
- Tree cover (dense)
- Orchard (dense)
- Other perennial
- Irrigated maize
- Irrigated potatoes
- Irrigated vegetables
- Irrigated orchard (dense)
- Irrigated grapes
- Irrigated & rainfed wheat
- Other crop
- Grapes
- Irrigated orchard (sparse)
- Irrigated other crops
- Irrigated other perennial
- Orchard (sparse)

This photo shows potato crops commonly grown in this area of Lebanon, as shown in the yellow areas of the map on the right.

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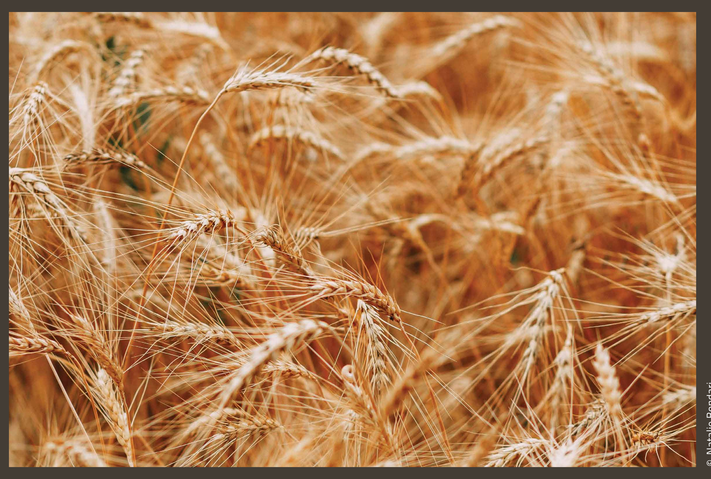
This photo shows wheat, grown in the aquamarine areas on the map. Because of the importance of cereal crops - like wheat - for food security, additional efforts are required in monitoring land and water productivity trends.



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