Local water storage reservoirs for agriculture



Owing to limited discharges during dry periods the streams and rivers in the Jura Mountains of the Swiss canton of Basel-Landschaft do not provide enough water for the use by local fruit and vegetable farms. In the context of a federal pilot project on climate-change adaptation, we ascertained under which conditions local water storage reservoirs could contribute to enable sufficient irrigation. We summarized our findings in a fact sheet that has been made available to local farmers.

Our services

- Assessment of the viability of measuring discharge at rivers and streams using smartphone apps
- Calculation of agriculture-related water demand per farm and region
- Case study to assess water supply and demand
- Assessment of various means of local water storage, fact-finding to establish a basis for decision-making, and ascertainment of the structural, technical, and legal prerequisites
- Drafting of a water-storage factsheet for local farmers

Client

Canton of Basel-Landschaft, Environmental Protection and Energy Agency / Canton of Solothurn, Environmental Protection Agency / Swiss Federal Office for Agriculture (FOAG) / Swiss Federal Office for the Environment (FOEN)

Facts

Period	2019 - 2021
Project Country	Switzerland

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Pond with geomembrane liner, drainage pipe, and tire ladder



Pump and distribution station



Orchard with drip-irrigation system