Water for Resilience and Recovery in Syria

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The Orontes River Basin

Addressing water management complexity and uncertainties

Partner institutions
Graduate institute of International and Development Studies
University of Neuchâtel
Swiss Institute of Technology Lausanne
University of Lausanne
Center for Advanced Agronomic Mediterranean Studies
Geo Expertise

Lebanese Agricultural Research Institute
Litani River Authority
Lebanese University, Beirut
Saint Joseph University, Beirut
MEF University, Istanbul
Mustapha Kemal University, Hatay
The Orontes River Basin

Hydro-physical meta system
Topography hydrology
Hydrogeology
Climatology

Human activities
Water infrastructures
Land use, agriculture
Industry
Pollution...

Social economic political meta system
Demography
Sectarian and ethnic diversity
Institutional settings
Policies........

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Map of the Orontes River Basin with various markers indicating infrastructures andland use activities.
Prior to the conflict, the Orontes basin provided in Syria:
a quarter of the agricultural production and
about a third of industrial production of the country.
A Complex Ethnic and Sectarian Distribution
2010

The Orontes River Basin
Areas of control and demarcation lines, May 2017

The Orontes River Basin
Availability of drinking water, February 2014
Availability of drinking water
December 2015
Population Displacement, December 2015

The Orontes River Basin
Decline in Crop Production
2010 - 2015

The Orontes River Basin
The Orontes River Basin

Ar Ruj Irrigation scheme, August 2010 - 2015
Rehabilitation and Management of Water Networks Crossed by Demarcation Lines and/or Sectarian Territorial Limits in North-Western Syria
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Rehabilitation and Management of Water Networks Crossed by Demarcation Lines and/or Sectarian Territorial Limits in North-Western Syria
The aim of the project is to contribute to a water sharing agreement between the districts of Afrin and Izaz.

Request from the local committees of Izaz and Dar Aa Izaah

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Rehabilitation and Management of Water Networks Crossed by Demarcation Lines and/or Sectarian Territorial Limits

Identification and mapping of key actors

- Political actors
- Economic actors
- Local authorities
- Technical actors
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Rehabilitation and Management of Water Networks Crossed by Demarcation Lines and/or Sectarian Territorial Limits

<table>
<thead>
<tr>
<th>Irrigation schemes</th>
<th>Area (Hectares)</th>
<th>Main productions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Al Qusayr</td>
<td>6,800</td>
<td>Apricot trees, apple trees, vegetables</td>
</tr>
<tr>
<td>Homs - Hama</td>
<td>20,190</td>
<td>Wheat, sesame, vegetables</td>
</tr>
<tr>
<td>Al Hulah</td>
<td>2,200</td>
<td>Wheat, potatoes, vegetables</td>
</tr>
<tr>
<td>Al Asharinah and Al Ghab</td>
<td>65,568</td>
<td>Wheat, cotton, sugar beet, groundnuts, vegetables, sesame, potatoes, vegetables</td>
</tr>
<tr>
<td>Ar Ruj</td>
<td>15,500</td>
<td>Wheat, cotton, sugar beet, sesame, potatoes, vegetables</td>
</tr>
<tr>
<td>Afrin</td>
<td>24,900</td>
<td>Apricot trees, pomegranate, vegetables</td>
</tr>
<tr>
<td>Total</td>
<td>134,590</td>
<td></td>
</tr>
</tbody>
</table>
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Rehabilitation of the Ar Ruj irrigation scheme

Location Map

Total area: 11’800 hectares
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Creating a water users association
Atlas of the Orontes River Basin

www.water-security.org

Library of the Orontes River Basin

https://docs.water-security.org