6N - Northern Great Plains

Geography
Total area TBA (km²): 770 000
No. countries sharing: 2
Countries sharing: Canada, United States of America
Population: 2 000 000
Climate zone: Humid Continental
Rainfall (mm/yr): 430

Hydrogeology
Aquifer type: Data not available
Degree of confinement: Data not available
Main Lithology: Data not available

Map and cross-section are only provided for illustrative purposes. Dimensions are only approximate.
**6N - Northern Great Plains**

### TWAP Groundwater Indicators from Global Inventory

No data available.

### TWAP Groundwater Indicators from WaterGAP model

<table>
<thead>
<tr>
<th></th>
<th>Renewable groundwater per capita</th>
<th>Human dependency on groundwater (%)</th>
<th>Human dependency on groundwater for domestic water supply (%)</th>
<th>Human dependency on groundwater for irrigation (%)</th>
<th>Human dependency on groundwater for industrial water use (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recharge, incl. recharge from irrigation (mm/yr)</td>
<td>Current state (m³/y/capita)</td>
<td>Projection 2030 (% change to current state)</td>
<td>Projection 2050 (% change to current state)</td>
<td>current state</td>
</tr>
<tr>
<td>Canada</td>
<td>43</td>
<td>13 000</td>
<td>5</td>
<td>-3</td>
<td>10</td>
</tr>
<tr>
<td>United States of America</td>
<td>46</td>
<td>20 000</td>
<td>5</td>
<td>-4</td>
<td>14</td>
</tr>
<tr>
<td>TBA level</td>
<td>45</td>
<td>18 000</td>
<td>5</td>
<td>-4</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Groundwater depletion (mm/yr)</th>
<th>Population density (Persons/km²)</th>
<th>Groundwater development stress (°)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current state</td>
<td>Projection 2030 (% change to current state)</td>
<td>Projection 2050 (% change to current state)</td>
</tr>
<tr>
<td>Canada</td>
<td>0</td>
<td>4</td>
<td>16</td>
</tr>
<tr>
<td>United States of America</td>
<td>0</td>
<td>2</td>
<td>15</td>
</tr>
<tr>
<td>TBA level</td>
<td>0</td>
<td>3</td>
<td>15</td>
</tr>
</tbody>
</table>

### Key parameters table from Global Inventory

No data available.

### Aquifer description

No data available.

### Contributors to Global Inventory

No contributions.

### Considerations and recommendations

Canada and the United States of America did not provide data to the global inventory. This unfortunately presents a major gap in the first global transboundary groundwater assessment. The only information that could be presented here has been derived from the global WaterGAP model. See colophon for more information, including references to data from other sources.
Transboundary Aquifer Information Sheet

6N - Northern Great Plains

Request:
If you have data or information about this transboundary aquifer that can improve the quality of this information sheet and the underlying database, please contact us via email at info@un-igrac.org. If appropriate, the information will be uploaded to the database of transboundary aquifers and will also be used in new versions of this information sheet.

Colophon
This Transboundary Aquifers information sheet has been produced as part of the Groundwater Component of the GEF Transboundary Water Assessment Programme (GEF TWAP). GEF TWAP is the first truly global comparative assessment of transboundary groundwater, lakes, rivers, large marine ecosystems and the open ocean. More information on TWAP can be found on: www.geftwap.org. The Groundwater component of TWAP carried out a global comparison of 199 transboundary aquifers and the groundwater systems of 41 Small Island Developing States. The data used to compile this transboundary aquifer information sheet has been made available by national and regional experts from countries involved in the TWAP Groundwater project. For aquifers larger than 20 000 km² and which are not overlapping, additional data are available from modelling done by the Goethe University Frankfurt (Germany) as part of TWAP Groundwater. All data were compiled by UNESCO-IHP and the International Groundwater Resources Assessment Centre (IGRAC – UNESCO Category II Institute). Values given in the fact-sheet represent an approximate guide only and should not replace data obtained from recent local assessments. The editors of this information sheet are not responsible for the quality of the data.

For more information on TWAP Groundwater and for more data, please have a look at the TWAP Groundwater Information Management System which is accessible via www.twap.isarm.org or www.un-igrac.org.

References:
- Climate: Climate indicates the major climate zone which occurs in the aquifer area. If more than 1 climate zone is present the zone with the largest surface area was selected. Source climate data: ArcGIS Online (2015), Simplified World Climate zones. Owner: Mapping Our World GIS Education. Original map: National Geographic World Atlas for Young Explorers (1998).
- All other data: TWAP Groundwater (2015).

Version: October 2015