Water Scarcity in Germany:

Use the articles provided to make notes in the appropriate columns below.

1. Add as many points of your own to the table from the articles:

* Read: [Water Scarcity and It's Impact on Germany](https://www.euractiv.com/section/development-policy/news/german-economy-vulnerable-to-global-water-scarcity-wwf-warns/) (9b)
* Read: [German Water Supply Threatened](https://www.bloomberg.com/news/articles/2014-07-30/german-water-supply-threatened-as-climate-change-boosts-droughts) (9b)

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| --- | --- |
| **Factors Affecting Water Scarcity in Germany** | |
| **Physical water scarcity** | |
| Environmental factors | Human factors |
| **Economic water scarcity** | |
| Environmental factors | Human factors |
| **Factors affecting water quality** | |

Water Quality in The Bahamas:

Use the articles provided to make notes in the appropriate columns below.

1. Sort the following statements below into one of the categories in the table.
2. Add as many points of your own to the table from the article “Water Scarcity in The Bahamas”

|  |  |
| --- | --- |
| **Factors Affecting Water Scarcity in The Bahamas** | |
| **Physical water scarcity** | |
| Environmental factors | Human factors |
| **Economic water scarcity** | |
| Environmental factors | Human factors |
| **Factors affecting water quality** | |
|  |  |

Outlying rural communities have poor access to piped water – on Long island most houses have rainwater collection!

Population – New Providence has a large population so there is less water per head (only 45 gallons per person compared to Grand Bahama 1984)

Northern islands receive more rainfall so have more freshwater per person. (50 inches in North only 30 inches in South)

80% of people use bottled water in New Providence – the most populated island – very expensive

Thickness of limestone (forms the islands of The Bahamas) ensures VERY high calcium content as freshwater for Bahamians comes from reserves below the limestone islands.

Salinity, pollution of freshwater high in certain areas (New Providence) due to over abstraction, pollution from private septic tanks, pollution from illegal dumping, sewage dumping from cruise ships.

Tourists consume an estimated 400 to 1,000 liters of water per person per day. Residential consumption uses 150 to 200 liters per person.

Reverse osmosis very expensive 25% of cost is in energy for process! R.O. 6 times more expensive than freshwater. RO plants produce brine wastes - 35,000 mg/L dissolved solids. This brine is diluted with treated effluent and disposed of by spraying on golf courses and/or other open space areas.

In the urban areas, 98% of the population had access to improved water source - In rural areas only 86%