**Hydrosphere**

**What does Water Balance mean?**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Water Cycle**

🡪Water is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ moving among the \_\_\_\_\_\_\_\_\_\_\_, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the solid \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Parts of the water cycle**

1. **Evaporation** – water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into the\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. **Precipitation** – \_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_ water from the \_\_\_\_\_\_\_\_\_\_\_\_
3. **Infiltration** - water\_\_\_\_\_\_\_\_\_\_\_ through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. **Transpiration** - water\_\_\_\_\_\_\_\_\_\_\_\_ from \_\_\_\_\_\_\_\_\_\_\_
5. **Runoff** – when \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ hits the \_\_\_\_\_\_\_\_\_\_\_and is not \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Distribution of the Water on Earth**

* \_\_\_\_\_\_\_\_of Earth is \_\_\_\_\_\_\_\_
* \_\_\_\_\_\_ in the \_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Water Supply and Use - How is water used?**

**\_\_\_\_\_\_\_\_\_\_\_**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**\_\_\_\_\_\_\_\_\_\_\_**-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ocean Currents**

Ocean circulation also influences climate

* Ocean ­\_\_\_\_\_\_\_\_\_\_\_: ocean water ­­­\_\_\_\_\_\_\_\_\_\_\_\_ heat in the \_\_\_\_\_\_\_\_ with the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_ circulation: a \_\_\_\_\_\_\_\_\_\_\_\_\_ current \_\_\_\_\_\_\_\_\_\_ in the \_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_, fresher \_\_\_\_\_\_\_\_\_\_moves along the \_\_\_\_\_\_\_\_\_ and carries \_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **North American Deep Water** (**NADW**): the \_\_\_\_\_\_\_\_\_\_\_\_ portion of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
  + \_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_ water that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + moves \_\_\_\_\_\_\_\_\_\_\_\_\_ beneath the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**NADW is vulnerable**

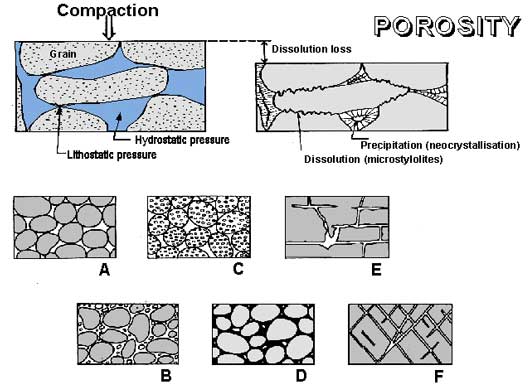
* If \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ice melts, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ would \_\_\_\_\_\_\_ surface waters, making them \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and stopping \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. – This has occurred in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Ocean Currents:**

1. Primary Forces--start the water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Secondary Forces--\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Warm and Cold Currents**

* Warm ocean currents: \_\_\_\_\_\_\_\_\_\_\_\_\_ water from \_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Cold ocean currents: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water from \_\_\_\_\_\_\_\_\_\_\_\_\_ toward the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, is a \_\_\_\_\_\_\_\_\_\_\_-water \_\_\_\_\_\_\_\_\_\_\_ that moves up the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ coast of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Groundwater**

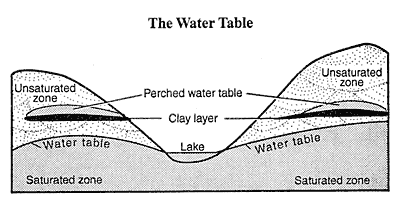
**Movement of water underground**

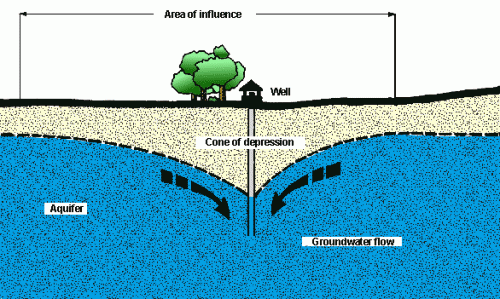
**Porosity:** percentage of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ showing how much \_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_

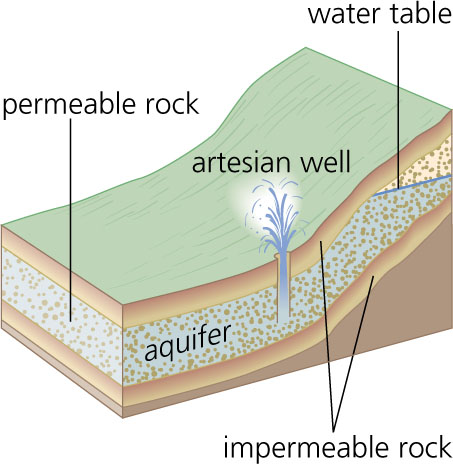
**Permeability:** \_\_\_\_\_\_\_\_\_\_\_\_\_ can \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ pore spaces

**Clay:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_amount of pore \_\_\_\_\_\_\_\_\_\_\_of any \_\_\_\_\_\_\_\_ type – not \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* **Zone of Aeration** – area \_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_ where \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ passes \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The **water table** is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_



* **Zone of Saturation** – area where the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_\_\_\_\_\_\_
* **Groundwater** is the \_\_\_\_\_\_\_\_\_\_\_ within the \_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Aquifer** : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ permeable rock (\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_) from which \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ can be extracted using a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* A **cone of depression** occurs in an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ when a lot of \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* **Artesian well:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_ rises on its \_\_\_\_\_\_\_\_\_\_\_\_ under \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_can cause the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to be \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Problems with Groundwater**

* Withdrawing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contaminating the \_\_\_\_\_\_\_\_\_\_\_\_\_

(\_\_\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, &\_\_\_\_\_\_\_\_\_\_\_\_\_\_)

* \_\_\_\_\_\_\_\_\_water\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

From ocean\_\_\_\_\_\_\_\_\_\_\_\_\_ the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_)\_.

**Caverns**

* A \_\_\_\_\_\_\_\_\_ is a \_\_\_\_\_\_\_\_\_\_\_\_\_ formed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ chamber when \_\_\_\_\_\_\_\_\_\_\_\_ is withdrawn \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_forms most \_\_\_\_\_\_\_\_\_\_\_\_ at or below the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* **Sinkholes:**\_\_\_\_\_\_\_\_\_\_\_ near the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ causing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**A stream’s profile**

* **Headwater** (\_\_\_\_\_\_\_\_\_\_\_\_\_) – at the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of a stream
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
* Higher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Fish found:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* **Mouth** (\_\_\_\_\_\_\_\_\_\_\_\_\_\_)– at the \_\_\_\_\_\_\_\_\_\_\_\_\_\_of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Murky \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dissolved \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Fish found:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Watershed**

\*An area of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that contains a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Tributary** –a \_\_\_\_\_\_\_\_\_\_\_ that \_\_\_\_\_\_\_\_\_\_\_\_\_ into another \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Drainage Basins**

\*A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ basin is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ area that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Base Level**

**Base level** - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to which a \_\_\_\_\_\_\_\_\_\_\_ can \_\_\_\_\_\_\_\_\_\_\_\_

* Ultimate base level is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Temporary or local base levels**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Meandering Stream**

\_\_\_\_\_\_\_\_\_ moving \_\_\_\_\_\_\_\_\_\_ located in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Three ways streams erode channels**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Controlling Floods**

**Natural Levees**

* A **natural levee** \_\_\_\_\_\_\_\_\_\_\_\_\_ a \_\_\_\_\_\_\_\_\_\_\_\_ and helps to contain its \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, except during \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Artificial Levees**

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ mounds are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on the\_\_\_\_\_\_\_\_\_\_\_\_ of a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, increasing the amount of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ it can hold.

**Results of Floods**

* **Floodplains**– areas where \_\_\_\_\_\_\_\_\_\_\_\_ floods the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Provides a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ silt to\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ areas.
* Recharge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* Kill and causes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Human activities causing Flooding**

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Drought**

41% of people live in river basins that do not have enough fresh water!

* + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
  + \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Causes of a Decrease in Available Water**

* Dry \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- a period in which \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is much \_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is much \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- drying of \_\_\_\_\_\_\_\_\_\_ because of such \_\_\_\_\_\_\_\_\_\_\_\_\_\_ as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- low per capita \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ caused by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.