



Freshwater: A Precious Resource



Developed by the Global Precipitation Measurement mission Education and Public Outreach Team Floods submerge 475 Assam villages Many states in state of

Blue Gold: Have the Next Resource Wars Begun? nt floods sweep Bengal claimed two lives and affected over 80,000 people over the past 24 hours, West Bengal relief minister on metres, thus spreading the H.A. Sairani said in Kokata.

Re-tic base of ratio don't die for we Perhaps that parchial view water and Som Perhaps that parchial view serious, says Centre

In the assistance, including possible caused by assistance, including postponement caused by an encluding postponement sanitation of farm loan recovery in 12 drought affected states to mitigate drought. affected states, to mitigate the plight Replying to a two-day debate on drought and floods in various than the

than us parts of the country, agriculture in Eng minister Alit Singh said the onus of controlling managing and music parts of the country, agriculture controlling, managing and executgreates controlling, managing and execut-war of ing such relief was on states as they alone ware in a rooting to idea.

they alone were in a position to iden. tify the areas worst affected by natu-

al catamities. Terming the drought situation as agriculture and relief minist and and and an and among the it was doubted states at Very serious, he said among the it was decided to Jasthan, Haryana and Past

Rain rewrites

record books

The minister said the Centre was also ready to release the next instal. ment of CRF, which would be due only in October, if states utilised it properly. If CRF is inadequate, steps would be taken to provide help under the National Calamity Contin-Regarding the demand for waiv-

> Grim task for farmers after

big downpour

ing and writing off loans, he said he was in the process of discussing the matter with the finance minister as t involved much wider arena and different authorities.

Singh said the Centre had already held a stock-taking meeting with agriculture and relief ministers of

SUMMER DELUGE **Relief pledge to farmers**

Film fans hit by elements

IMMER DELUGE

Wow! What a washout

rain goes on

Damage bill mounts as rain goe

the 'food for work' programme to states facing acute resource crunch. Stating that food output would be adversely affected due to drought auversely automotion of the solution of the so Singh said substantial damage had already been caused to coarse cere. als like bajra, oliseeds and pulses.

Paddy prospects would also be af. though it may recover to some extent if rainfall takes place in the next 10 days, he said. On the criticism that the meteorological department had failed in

forecasting monsoons, he said the were so many variable

shout

What

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i battles heavy downp

IEGH WATER OVERTAKES DOWNTOWN CEDAR RAPIDS

THOUSANDS EVACUATED IN UNPRECEDENTED FLOOD POWER LOSS WIDESPREAD; WATER IN SHORT SUPPLY **EPIC SURGE**



BBBBB

11111

worry over late rains

3-Months Prediction Pessimistic

Daily Times-News



Little Rain Seen In Near Future



Civil Defense Proposes Offer For Lines, Pumps

B-MICTOR

Waterless Tuesday

Project Is Planned

Elon College Mayor Asks Residents To Begin Conservation Of Water





SOLID

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NASA

How much of Earth's water is freshwater? We will make a model of Earth's freshwater. 1. Take the plastic cup, and imagine that the cup is a model of Earth's surface. 2.Fill up ~ 75% with water. This represents how much of Earth's surface is covered with water. 3. Take out one eye-dropper of water, and place it in the small medicine cup. This represents how much of Earth's water is freshwater- ~ 2.5% 4. Take one drop of this water- this represents how much freshwater is easily accessible to us!

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Where is all the water on Earth?

Distribution of Earth's Water

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Source: Igor Shiklomanov's chapter "World fresh water resources" in Peter H. Gleick (editor), 1993, Water in Crisis: A Guide to the World's Fresh Water Resources.



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In addition to home use, freshwater is used for transportation, agriculture, heating and cooling, industry, livestock, and many other purposes. That one percent of water is primarily used in eight different ways, or categories:

- *Domestic*. Residential home indoor and outdoor use, such as drinking, cleaning, and watering lawns
- *Public supply*. Public and commercial buildings, such as schools and restaurants
- Irrigation. Watering systems for farms that grow food

Estimated Water Use in US



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Other- 8%: Mining 1%, Industrial 4%, Aquaculture 2%, Livestock 1%

From the American Water Works Assoc.



- Rain gauges- not evenly distributed, none over oceans, measures at local level which varies widely
- Weather radar- ground-based, not evenly distributed, not over oceans, measures at local level
- Satellites: operational and research, global level NOAA, NWS- operational: predicting, forecasting NASA- research:
- Impact of climate change on freshwater availability
- Impact of global rainfall on natural disasters: drought, tropical cyclones, landslides, etc...
- World health concerns: water-borne disease, water availability, etc...