

sheltered before Irma

hit. EWS strengthened

Climate Services for Adaptation: Case Studies

Source: State of Climate Services Report 2019, 2020

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Key Messages

Weather and climate services are vital for sustainable development and climate change adaptation. The benefits of investment greatly outweigh the cost.

Providing training and seminars to

improve decision-making at the

local level in West Africa- **35%**

increase in crops yields reported

and USD 45/ha savings achieved

- Climate services investments overall have a cost benefit ratio of one to 10. The evidence suggests that the benefits of investing systematically in strengthening the operational global regional-national hydro meteorological system needed for climate services outweigh the costs by about 80 to one.
- // It is estimated that improved weather, climate, water observations and forecasting could lead to up to USD 30 billion per year in increased global productivity and up to USD 2 billion per year in reduced asset losses.

2019, 2020 State of Climate Services Report Contributing Partners:

Change Agriculture and Food Security, Climate Policy Initiative, Climate Risk & Early Warning

Examples

Desert locusts & drought

warnings in the Greater Horn of Africa

Climate- and drought-related products

designed to reduce the impact of

extreme climate events & 720 000 tons

of cereal saved across 10 countries,

worth around US\$ 220 million

Effective heat alert system in Australia- 200+ lives saved in 2014 heat wave

- Operational Agro-met Advisory Services in India have decreased cultivation costs overall by up to 25% and, increased net returns to farmers up to 83%.
- In Bangladesh: The Forecast-based financing (FbF) approach, implemented by WFP and the Bangladesh Red Crescent Society (BRCS), has created many benefits for flood-affected households. The average asset loss for Bangladeshis affected by floods has dropped from US\$ 78 to US\$ 57 - a 27% decrease.
- √ In East Africa, early warnings are protecting those living and working in the Lake Victoria Basin, East Africa. 46% of the beneficiaries - estimated at around 400 000 people - saved more than US\$ 1 000, and 2.56% saved more than US\$ 10 000 from loss of property.
- ✓ In China, Climate Services served as a starting point for shaping a climate change adaptation strategy. Average per capita income among farmers rose by USD 326 per year, and high-value crop production rose from 3.2 million tons to 4.2 million tons per year.
- ✓ In West Africa, Roving Seminars increased crop production by building rural farmers' knowledge and access to information during the growing seasons. 35% increase in crops yields were reported in project evaluations for four countries and USD 45/ha savings achieved by not weeding.

For more detailed information Click on the links below

Learning from Cyclones & flooding

in Mozambique - accurate cyclone

forecasting and collaboration at

national level