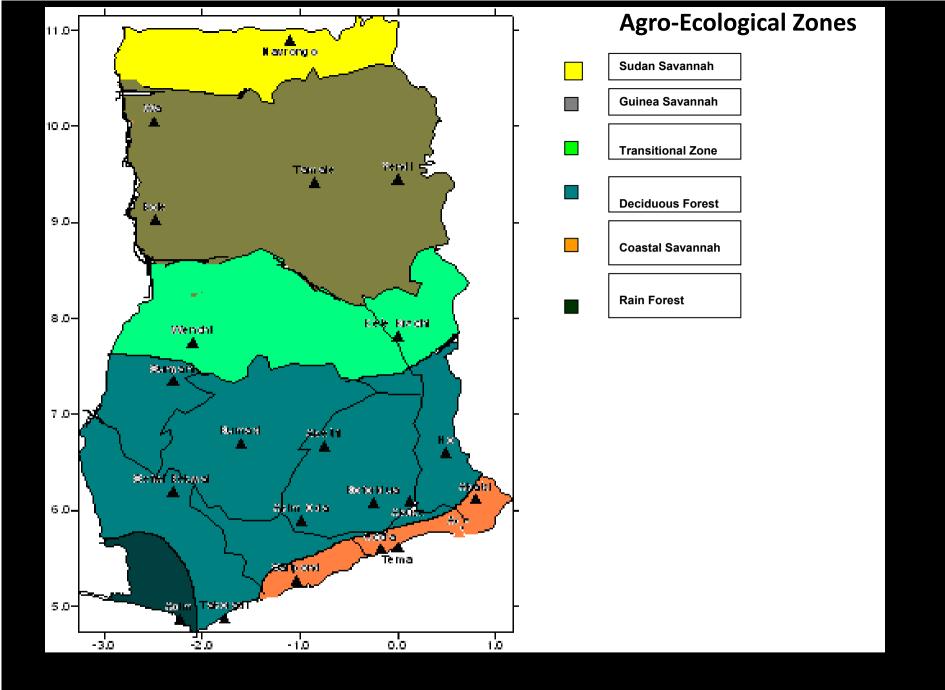
DROUGHT CONDITIONS AND MANAGEMENT STRATEGIES IN GHANA

Capacity Development to Support National Drought Policies

4 -7 May 2015

M PLAZA, ACCRA

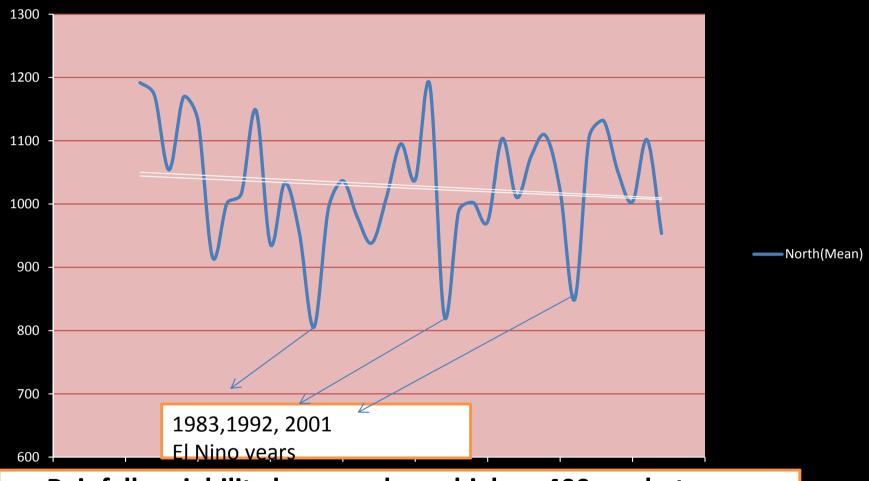
Carl Kojo Fiati
Environmental Protection Agency
Starlet 91 Street, Ministries Post Office Box M326,
Accra -Ghana



Hydrological inter connectivity

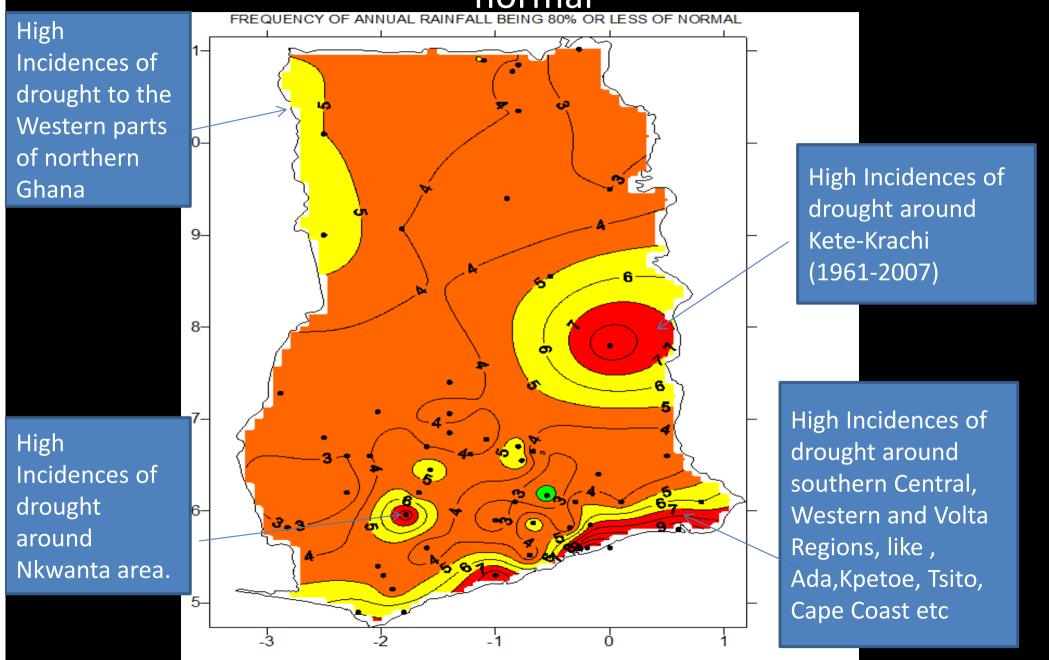


Drought occrrence



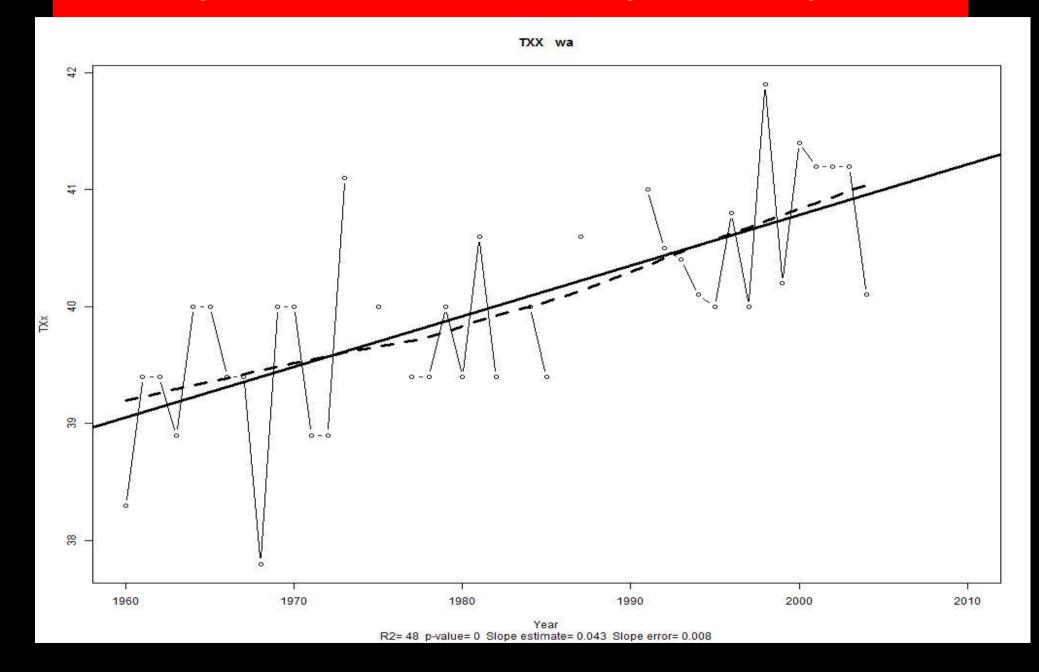
Rainfall variability here can be as high as 400mm between seasons

Frequency of annual rainfall being 80% or less of

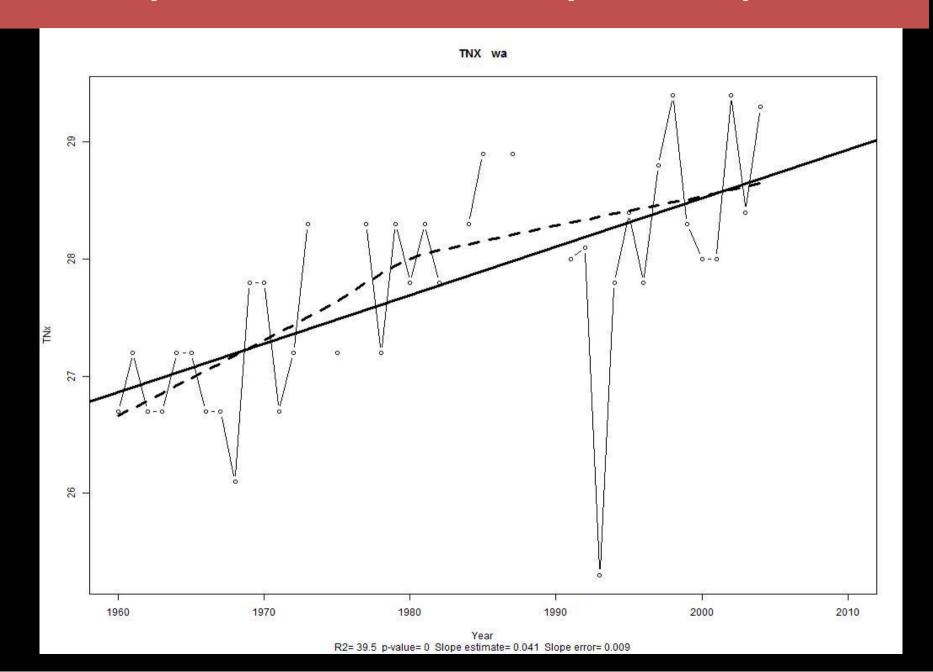


FREQUENCY OF ANNUAL RAINFALL BEING 75% OR LESS OF NORMAL 11-10-Here high Incidences of drought covering most of the Western part of Ghana. (1961-2007)Areas around Kete-Krachi, Southern Volta, Central and Western Regions as well as Eastern Coasts are much affected (1961-2007)5-

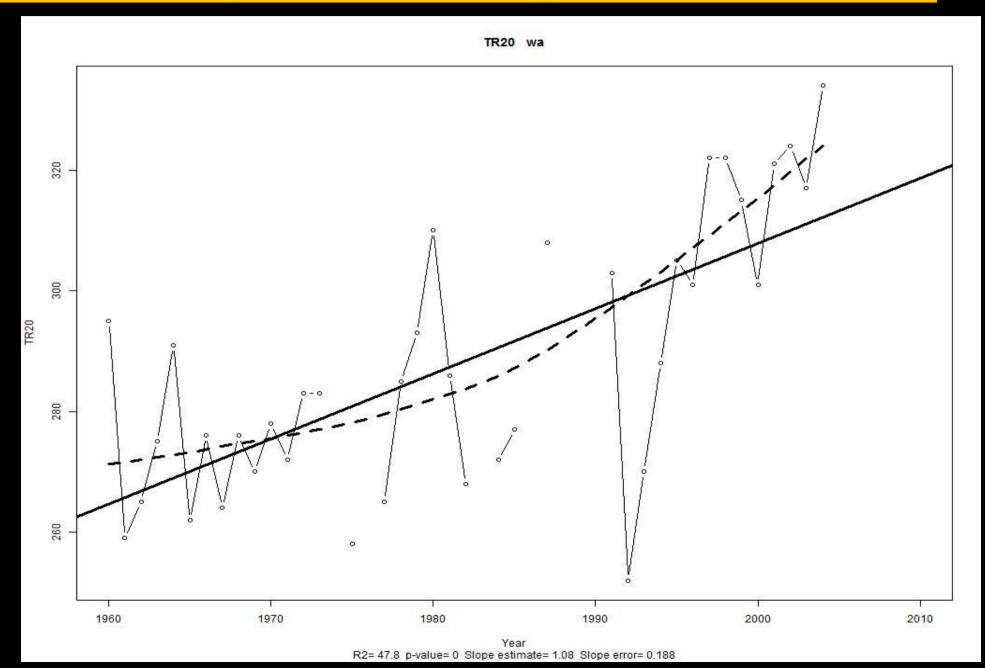
Monthly Maximum Value of Daily Max Temp for Wa



Monthly Minimum value of Daily Min Temp for Wa



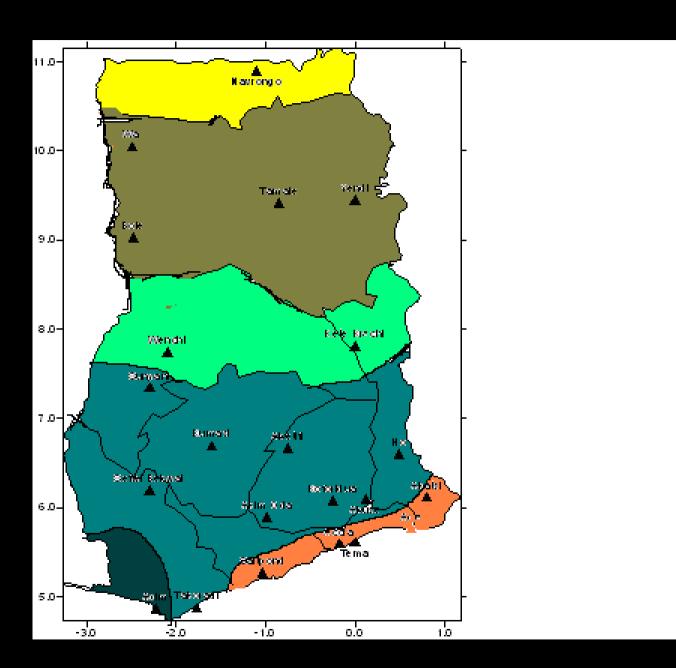
Annual Count when Daily Minimum Temperature >20 degrees for Wa



Monitoring and Early Warning

MONITORING INSTITUTIONS

- Ghana Meteorological Authority
- Ministry of Food and Agriculture
- Hydrological Services Department
- Water Resources Commission
- Environmental Protection Agency
- Research Institutions (Water Research Institute, Soil research Institute, and Universities)



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- Research Institutions and Universities

Vulnerability Assessment

Vulnerable sectors in order of severity

- Energy
- Agriculture and food production
- Industry
- Water supply
- Fisheries

Most Vulnerable Groups

- Women and Children
- Small scale farmers without irrigation infrastructure
- Unskilled industrial workers

Emergency relief and drought response

- Key institution National Disaster
 Management Organization (collaborating with other sectors through the Hydrometeorological disaster committee)
- Other groups –(CSOs, WFP)
- Measures are mainly in the form of food relief

Mitigation Measures

- Building resilience in food production systems
 - Involving soil fertility improvement and soil water conservation measures focused on the Guinea and Sudan Savanna zones in the north
 - Formulation of a riparian buffer zone policy for protection of river and micro water sheds (2013)
 - Capacity development for development of community micro watershed plans in vulnerable communities

Training in Soil conservation methods



Courtesy: EPA, Wa-Ghana

Improving Soil Carbon through training in production and application of compost

Sample of prepared compost





Courtesy: EPA, Wa-Ghana

Need for Knowledge Skills on Drought Management

 National Committee for Drought and Desertification inaugurated to facilitate actions to combat drought

- Absence of an integrated national geospatial information infrastructure
- Low level of skills for soil fertility and soil water conservation

I thank you for your attention