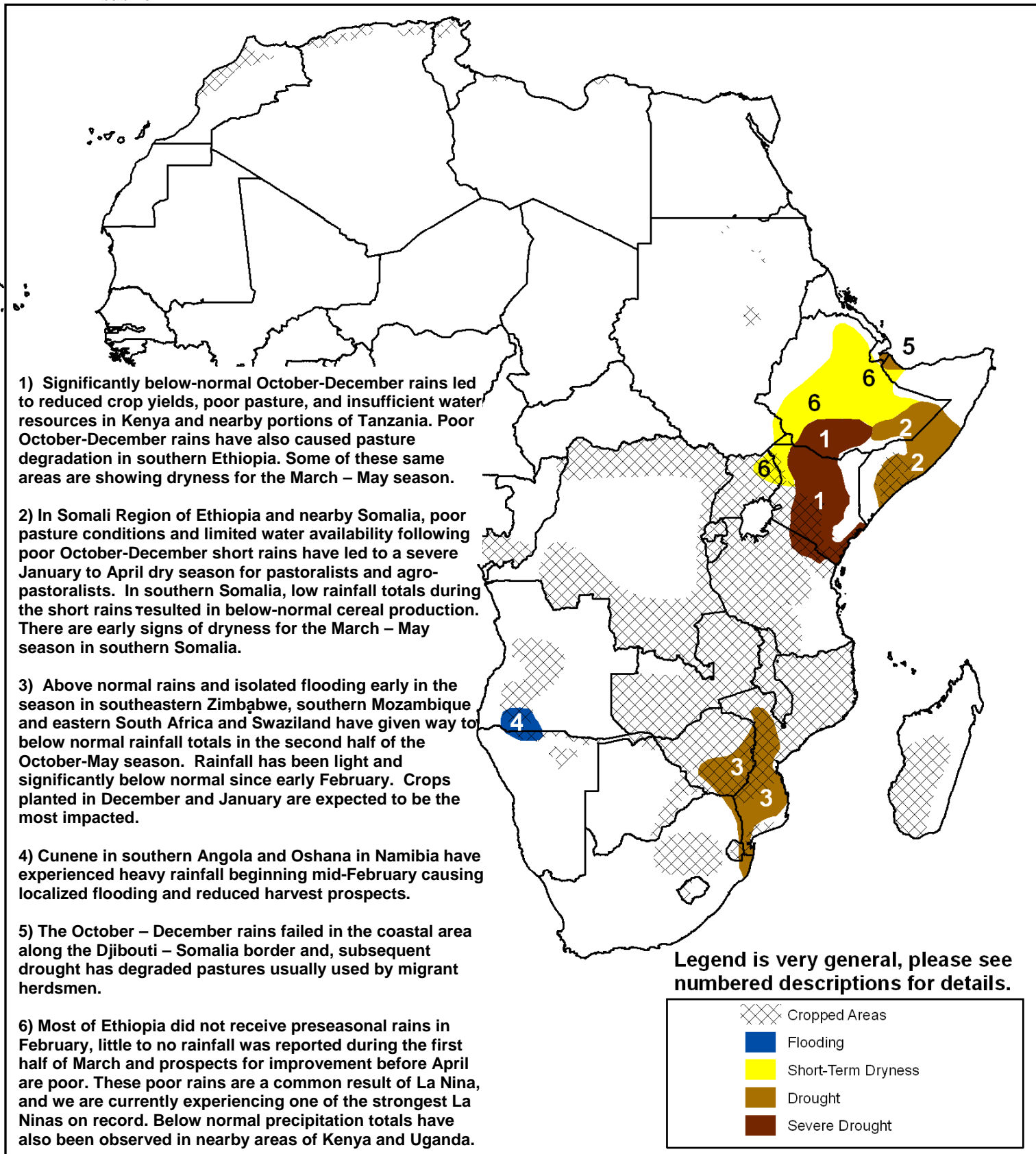


# The USAID FEWS NET Weather Hazards Impacts Assessment for Africa March 20 – 26, 2008

- Rainfall has been slow to return to Ethiopia and Kenya for the March – May rains. This is a typical signal of a La Nina event, and we are currently experiencing one of the strongest La Ninas on record. The outlook for the season is not favorable.
- As the season begins to come to a close in much of southern Africa, some areas are expected to have a reduced harvest after heavy rainfall has given way to a dry spell. The most affected areas are southern Mozambique and nearby portions of Zimbabwe.



## La Nina hampering east Africa rains

The March to May season in Ethiopia, has not been favorable thus far. Although it is still early in the season, the outlook does not favor improvement. Weather models are indicating continued dry conditions across Ethiopia for the next two weeks and similar conditions in nearby areas of Kenya and Somalia. Some regions, such as near the Ethiopia-Kenya and Ethiopia-Somalia borders, desperately need rainfall to relieve the drought from last season's poor rains.

The longer term outlook also looks poor. The Ethiopian Met department has stated that the rains will likely be poor in the eastern two thirds of the country, and Djibouti has released a similar statement for its own outlook.

These conditions are very common during La Nina episodes, and it is expected that poor rainfall totals will be common across most of the region.

(See **Figure 1**)

## Southern African season remains a mix

Different areas of southern Africa have had a wide range of conditions during the October – May season.

In the unimodal areas of Tanzania consistent rainfall that was rarely too heavy or too light has given way to good ground conditions for both pasture and crops. Further south in northern Mozambique, conditions have been favorable, with only isolated flooding events, mainly along the regions major rivers. This has similarly produced generally good conditions for crops and pastures.

Malawi, Zambia and northern Zimbabwe had flooding problems early in the season, but in early February rainfall eased. In some areas, precipitation may have eased up too much and damaged the few crops in this area that would have been at a vulnerable stage of development. Although there was no significant flooding earlier in the season, similar conditions are likely in Botswana and the South Africa's maize triangle.

Southern Zimbabwe and southern Mozambique were impacted by the dry spell, which has continued since early February. Early-planted crops that had reached the maturation stage before dry conditions moved into the region were not as affected as later crops. This early planted crop includes a small proportion of crops in Zimbabwe, but a majority of the crops in Mozambique, where harvests are already taking place. Crops planted later, however, were more likely to be at the vulnerable reproductive stage when the dry spell arrived. For these crops the dry spell has had serious implications.

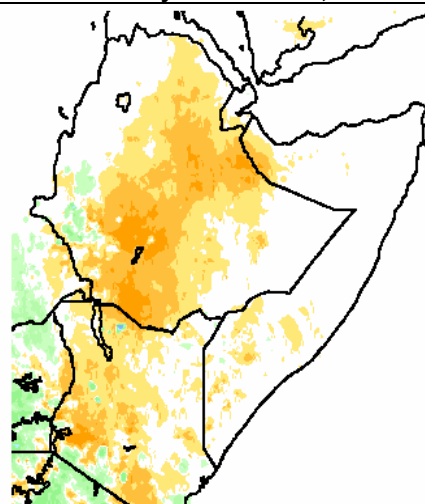
(See **Figure 2**)

## The odds favor a better than average season in West Africa

Preliminary model output shows signs of a better than normal season along the Gulf of Guinea region northward towards the Sahel. (See **Figure 3**) It is important to note that these are model forecasts depicting tilting odds and cover the April – June time period, whereas the season is May - October.

The model is keying in on a weak sea surface temperatures dipole in the Gulf of Guinea and the Atlantic Ocean off the Senegal-Mauritania coast. This is commonly a mechanism for a wetter than normal season across West Africa.

**Satellite Estimate Rainfall Anomaly  
February 1- March 16, 2008**



-250 -200 -150 -100 -50 -25 -10 10 25 50 100 150 200 250

Figure 1: Early season dryness has moved into Kenya, Ethiopia and is showing early signs of moving into Somalia.

Source: NOAA

**Soil Water Index for Maize  
March 16, 2008**

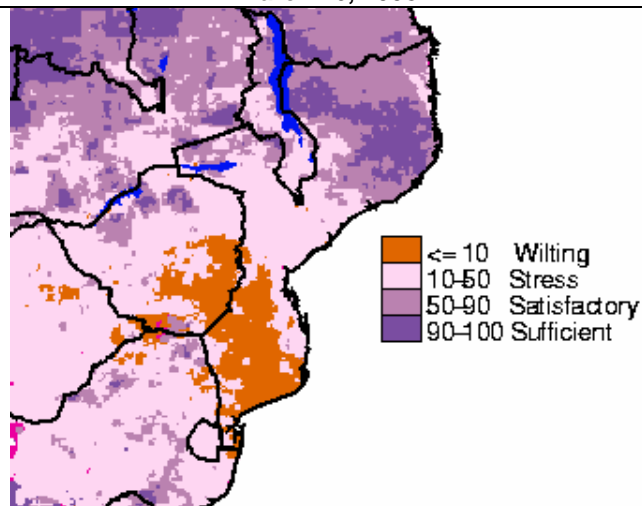


Figure 2: A wet season across most of southern Africa, has turned abruptly dry affected crop conditions.

Source: USGS

**Outlook for April – June in the Gulf of Guinea Region**

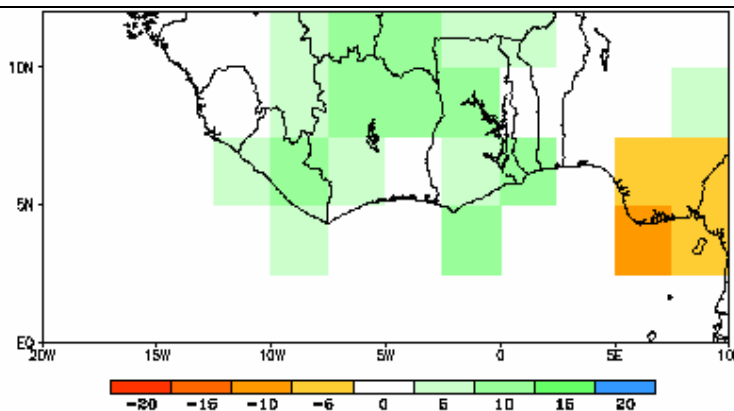


Figure 3. Outlook for the Gulf of Guinea region, similar outlooks have been mentioned for the Sahel.

Source: NOAA