



Drought Status and Climate Outlook for Upcoming 12 Months
FWS SFESO – Vero Beach, FL
July 6, 2011

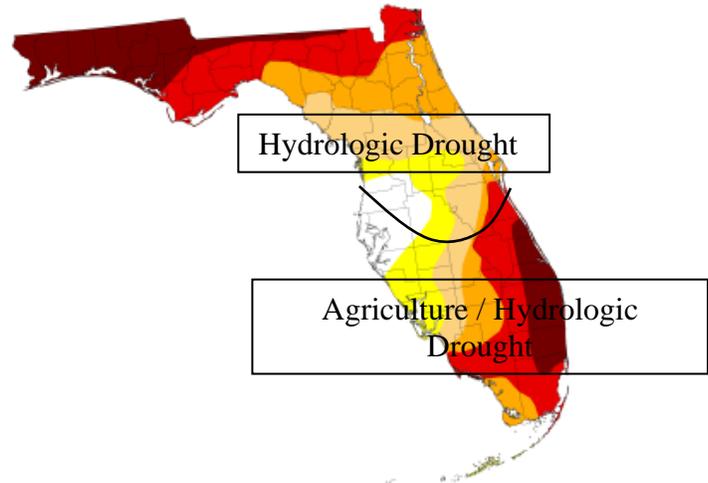
Short Term Drought Map:

U.S. Drought Monitor

June 28, 2011
 Valid 7 a.m. EST

Florida

	Drought Conditions (Percent Area)					
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	6.53	93.47	82.96	66.48	47.59	20.65
Last Week (06/21/2011 map)	6.53	93.47	86.30	70.27	50.41	22.46
3 Months Ago (03/29/2011 map)	0.04	99.96	82.72	54.43	20.42	0.00
Start of Calendar Year (12/28/2010 map)	0.18	99.82	86.04	50.84	20.21	0.00
Start of Water Year (09/28/2010 map)	54.97	45.03	18.02	4.22	0.00	0.00
One Year Ago (06/22/2010 map)	100.00	0.00	0.00	0.00	0.00	0.00



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

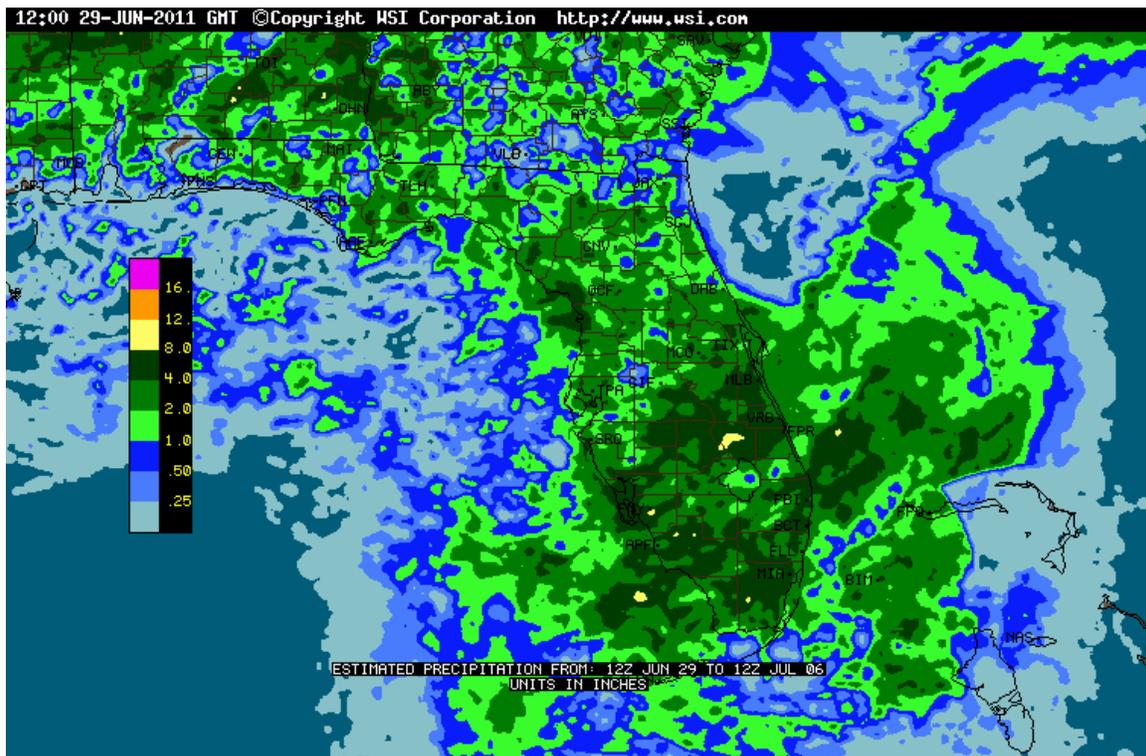
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>



Released Thursday, June 30, 2011
 Richard Heim/Liz Love-Brotak, NOAA/NESDIS/NCDC

Synopsis: Drought conditions have worsened for the Florida Panhandle and north Florida. The Florida Panhandle has now been listed as experiencing an Exceptional Drought along with coastal southeast Florida. An Extreme Drought continues for most of South Florida, although the area has experienced some very beneficial rains as of last week. The Treasure Coast, Kissimmee Chain of Lakes, and most of South Florida received 4-8 inches of rain with isolated amounts of 10 inches last week. The majority of the rest of the state received 1-2 inches of rain. Areas north of Orlando are in a hydrologic drought (water tables and aquifers are suffering due to lack of rainfall). Areas south of Orlando are experiencing a hydrologic drought, as well as an agricultural drought (crops, pastures, and grasslands suffering in the upper most portions of the soil). The agricultural drought will likely ease due to the rains that fell last week.



Rain totals for the week of June 29, 2011 ending the morning of July 6, 2011.

Drought Impacts in the News:

Water Shortage Watch – is in effect for Palm Beach, Broward, and northern Dade counties where landscape irrigation is limited to two days per week. However, on June 9th, SFWMD approved a one day per week restriction for the City of West Palm Beach and Lake Worth. On June 13th, the City of West Palm Beach implemented additional emergency restrictions. Lake Okeechobee, which is the backup water supply for South Florida, is approximately 3.5 feet below normal.

Salt Water Intrusion and Salinity – SFWMD water managers are closely monitoring wells for saltwater intrusion since water levels in the conservation areas on the southeast side of Lake O got so low that SFWMD had to cut off the supply of freshwater to coastal wells. June 22, 2011
The Miami Herald

The SFWMD reports that Florida Bay salinity has risen to hypersaline conditions (>40 psu) due to the lack of rainfall. However, with recent rains and a forecasted tropical wave this week, these conditions should improve.

State of Emergency – Governor Rick Scott has declared a state of emergency in Florida due to wildfires and drought conditions. June 13, 2011 Miami Herald

Wildfires – Due to recent rains, muck fire risks have been greatly reduced in the water conservation areas. A large fire that burned during the first couple of weeks of June in WCA-3

destroyed 68,000 acres (107 square miles) of prairie. It appears that the muck did not burn and that this fire was confined to only to vegetation.

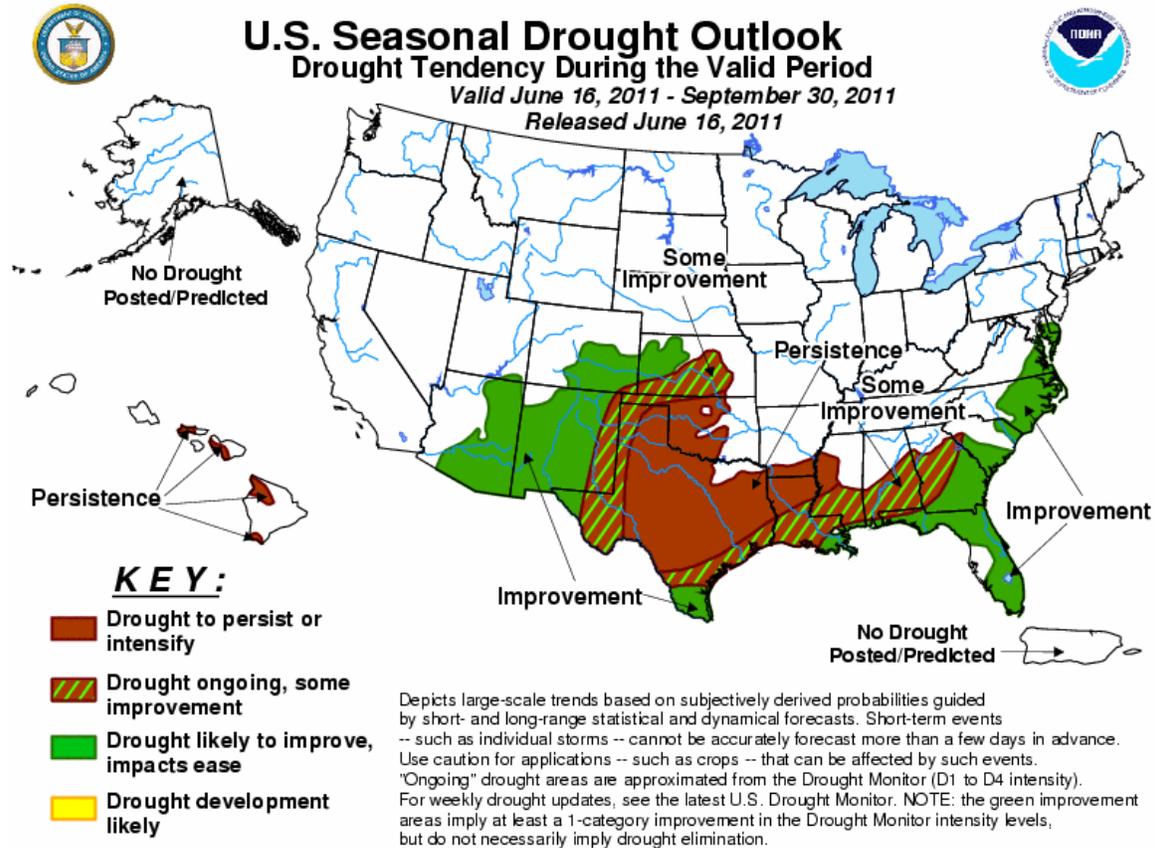
2011 Wet Season Totals (June 1-30):

Upper Kissimmee Chain of Lakes: 7.3" (normal)
Lower Kissimmee Chain of Lakes: 5.8" (-1.5" below normal rain)
Lake "O": 5.5" (-1.5" below normal rain)
St. Lucie basin: 4.1" (-2.4" below normal rain)
Caloosahatchee basin: 9" (normal)
EAA: 6.4" (-1.5" below normal rain)
Southwest Florida: 7.4" (-2.6" below normal rain)
Coastal Palm County: 4.8" (-3.4" below normal rain)
Coastal Broward County: 3.7" (-5" below normal rain)
Lox & WCA-2: 8.6" (-5.5" below normal rain)
WCA-3: 6" (-1.5" below normal rain)
Coastal Dade County: 5" (-4" below normal rain)
Big Cypress: 6.4" (-3.5" below normal rain)
ENP: 5.5" (-3.4" below normal rain)
The Keys: 1.5" (-2.5" below normal rain)

2011 Yearly Totals (January 1 – June 30):

Upper Kissimmee Chain of Lakes: 21.5" (normal)
Lower Kissimmee Chain of Lakes: 16" (-4.2" below normal rain)
Lake "O": 14" (-5.4" below normal rain)
St. Lucie basin: 14" (-8" below normal rain)
Caloosahatchee basin: 18.3" (-4" below normal rain)
EAA: 15" (-6" below normal rain)
Southwest Florida: 17" (-6" below normal rain)
Coastal Palm County: 13.7" (-12.4" below normal rain)
Coastal Broward County: 12.2" (-12.6" below normal rain)
Lox & WCA-2: 14.6" (-7" below normal rain)
WCA-3: 13" (-9" below normal rain)
Coastal Dade County: 13.6" (-10" below normal rain)
Big Cypress: 15" (-8" below normal rain)
ENP: 14" (-7.6" below normal rain)
The Keys: 7" (-7.5" below normal rain)

Drought Outlook for the Next 3 Months:



2011 Atlantic Hurricane Season Outlook:

Cyclone	Normal	12/8/2010 Issued Forecast	4/6/2011 Issued Forecast	6/1/2011 Issued Forecast	8/1/2011 Next Forecast				
Named Storms	10	17	16	16					
Hurricanes	6	9	9	9					
Major Hurricanes	2	5	5	5					

Probability of a Major Hurricane landfall on the U.S east coast (inc. Florida)	Normal = 31%	2011 Prediction = 48%
---	--------------	-----------------------

Probability of a Major Hurricane landfall on the Gulf coast (inc. Florida)

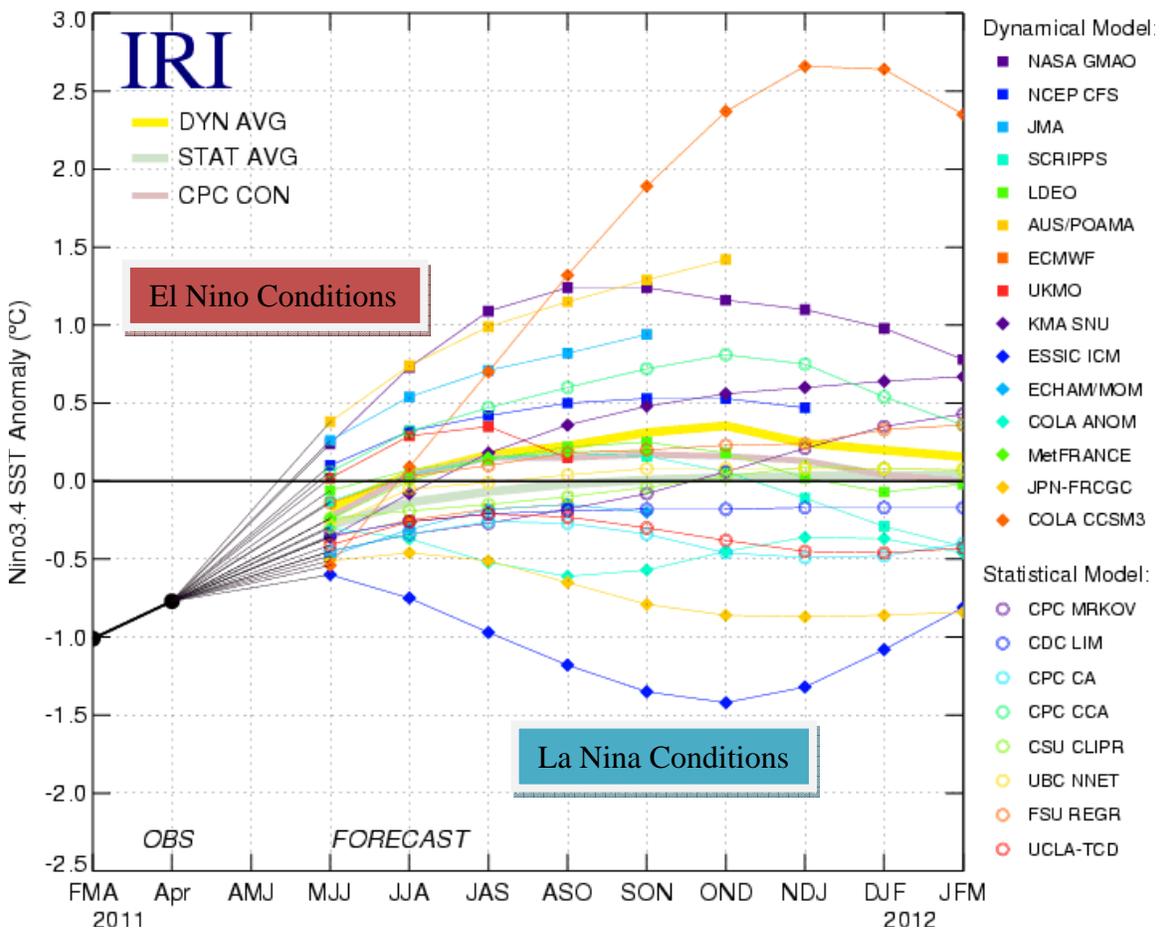
Normal = 30%

2011 Prediction = 47%

**El Nino / La Nina (ENSO) Status
(Climate Prediction Center)**

ENSO-neutral conditions have developed and are expected to continue through at least summer 2011. La Nina dissipated in May 2011 transitioning into ENSO-neutral last month. During this transition though, atmospheric and oceanic circulations continued to exhibit some very weak La Nina characteristics. These characteristics are showing up as impacts in the global tropics (which is evident in the current tropical Atlantic wind shear patterns). Most models continue to predict ENSO-neutral to continue into the 2011-2012 Dry Season. However, uncertainty in the models beyond the summer is high due to lower model forecast skill for longer lead times during this time of year.

Model Predictions of ENSO from May 2011



Central & South Florida Temperature Outlook:

July thru September - Much Above

October - Above

November thru April 2012 – Normal

May 2012 – Above

June 2012 – Much Above

Central & South Florida Rainfall Outlook:

July – Above Normal

August thru September – Much Above Normal

October – Above normal

November thru June 2012 - Normal

Lori Miller – FWS Hydrologist - 772.469.4231