

# “Perfect” Repeat??



*Bryce Anderson*

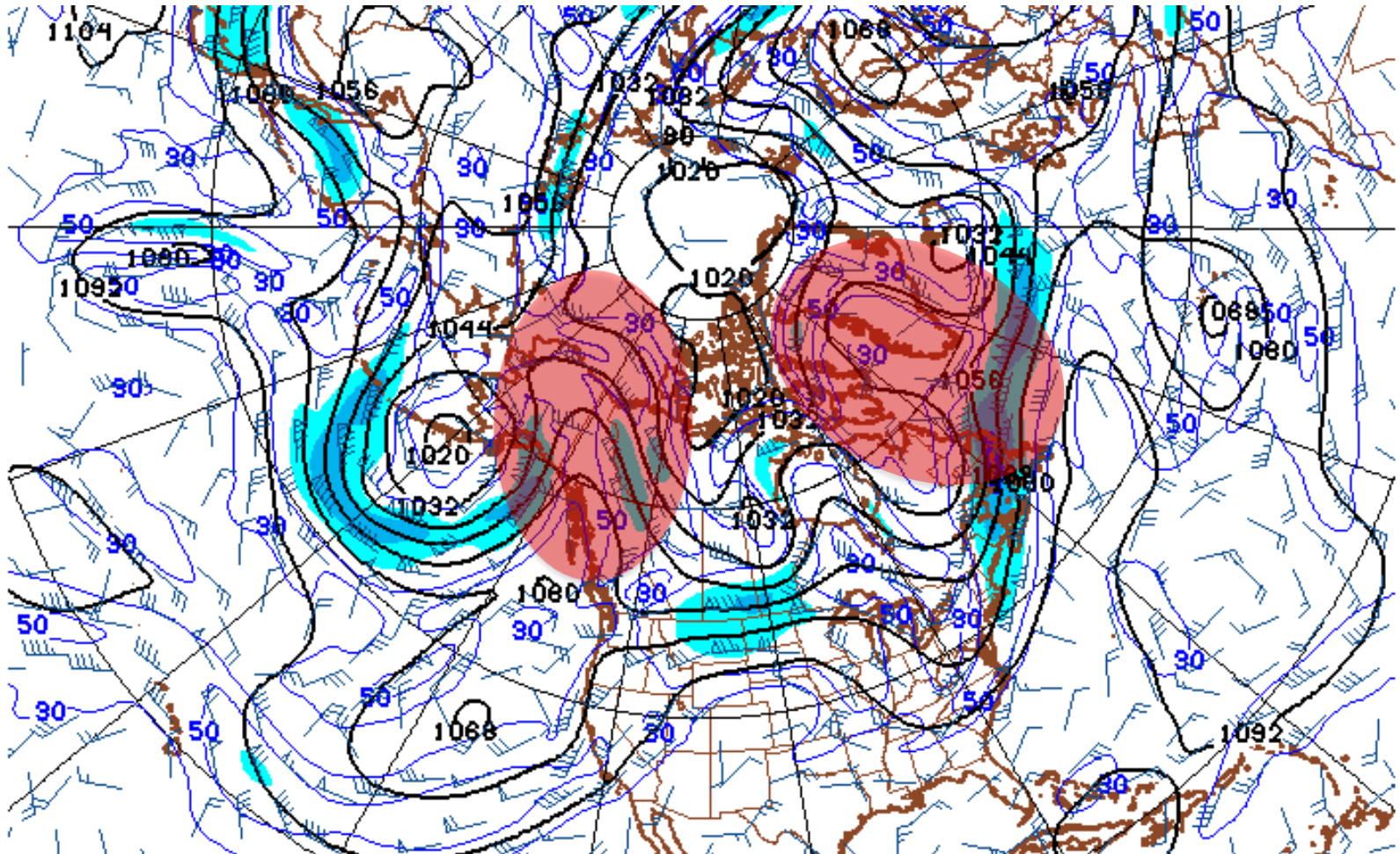
# 2014 Crop Weather



Jason Scott

***Bryce Anderson***  
***DTN Sr Ag Meteorologist***

# High-Latitude Blocking



Upper-level highs forced disturbances & jet stream south. Result—cooler & wetter.



# Weather Makers

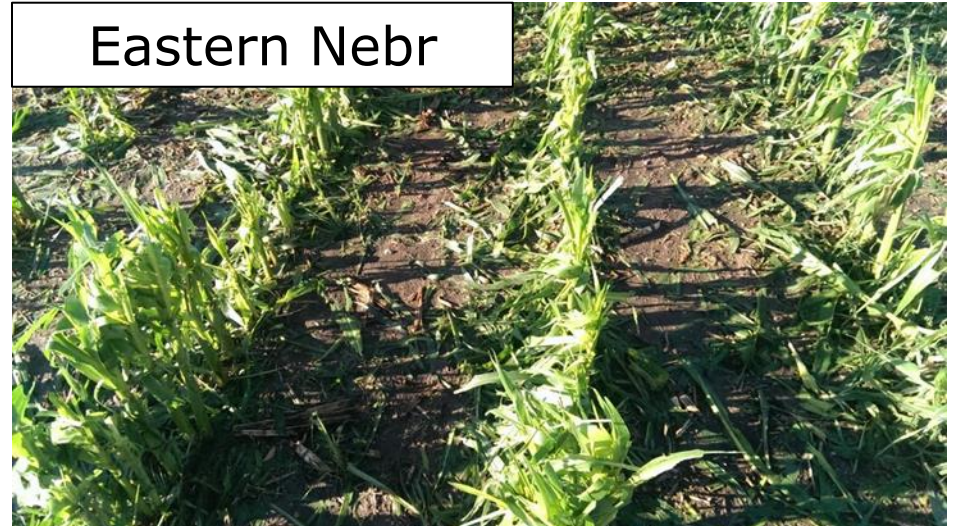
SW MN Flood



Pilger



Eastern Nebr



Keene Nebr



# Weather Makers



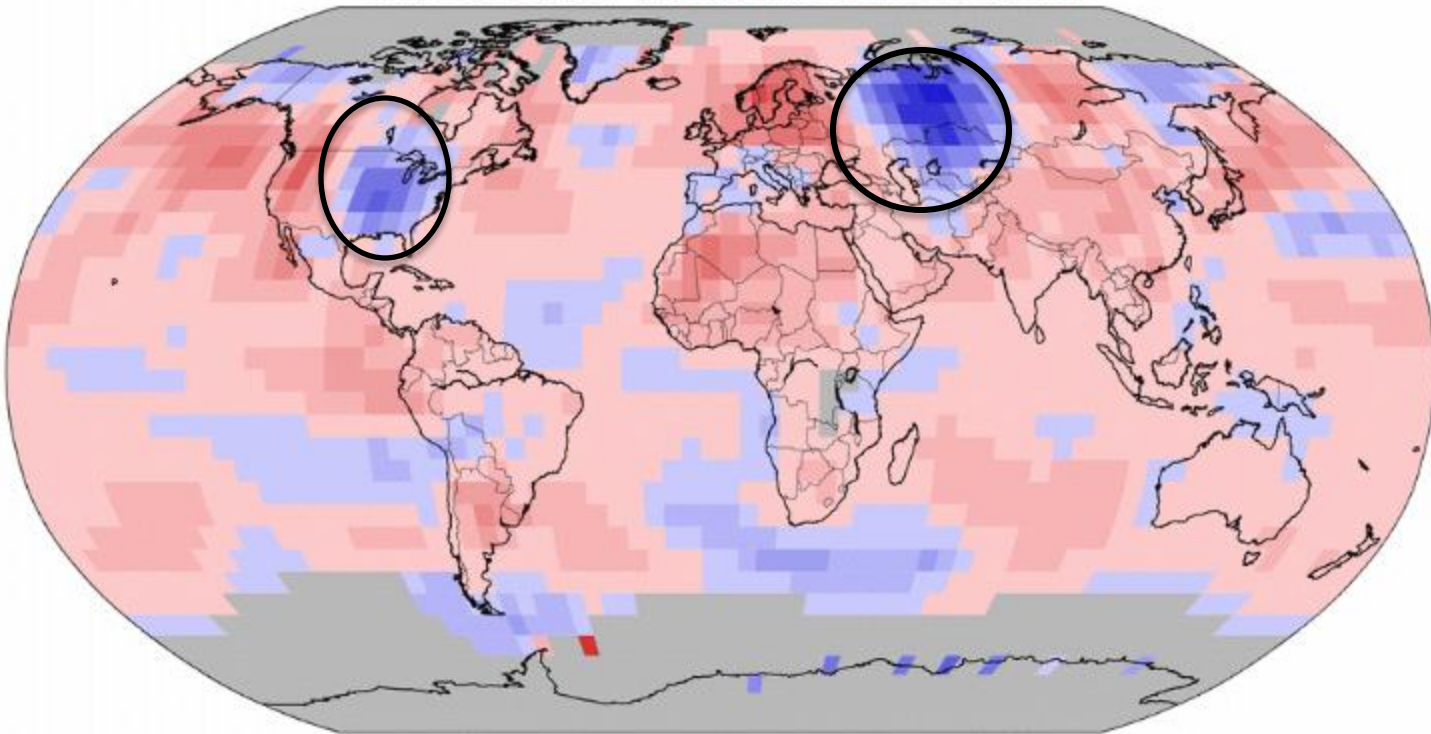
Saskatoon Saskatchewan



# World July 2014 Temps

Land & Ocean Temperature Departure from Average Jul 2014  
(with respect to a 1981–2010 base period)

Data Source: GHCN–M version 3.2.2 & ERSST version 3b



NOAA's National Climatic Data Center  
Wed Aug 13 08:13:27 EDT 2014

Degrees Celsius

Please Note: Gray areas represent missing data  
Map Projection: Robinson

## Cool North America and FSU

# Rebound (Obviously)

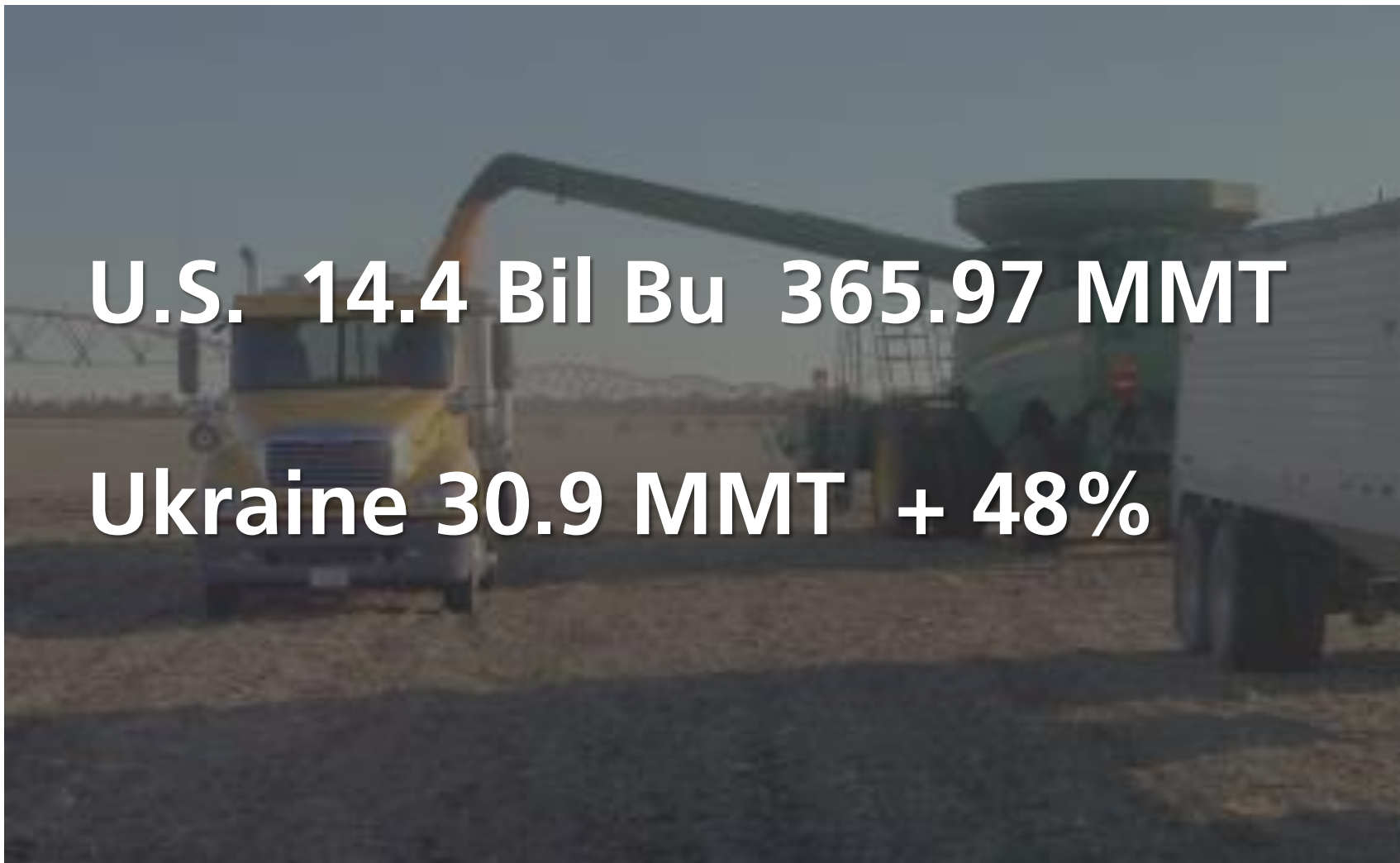




# Northern Hemisphere Corn

**U.S. 14.4 Bil Bu 365.97 MMT**

**Ukraine 30.9 MMT + 48%**





# Northern Hemisphere Soy

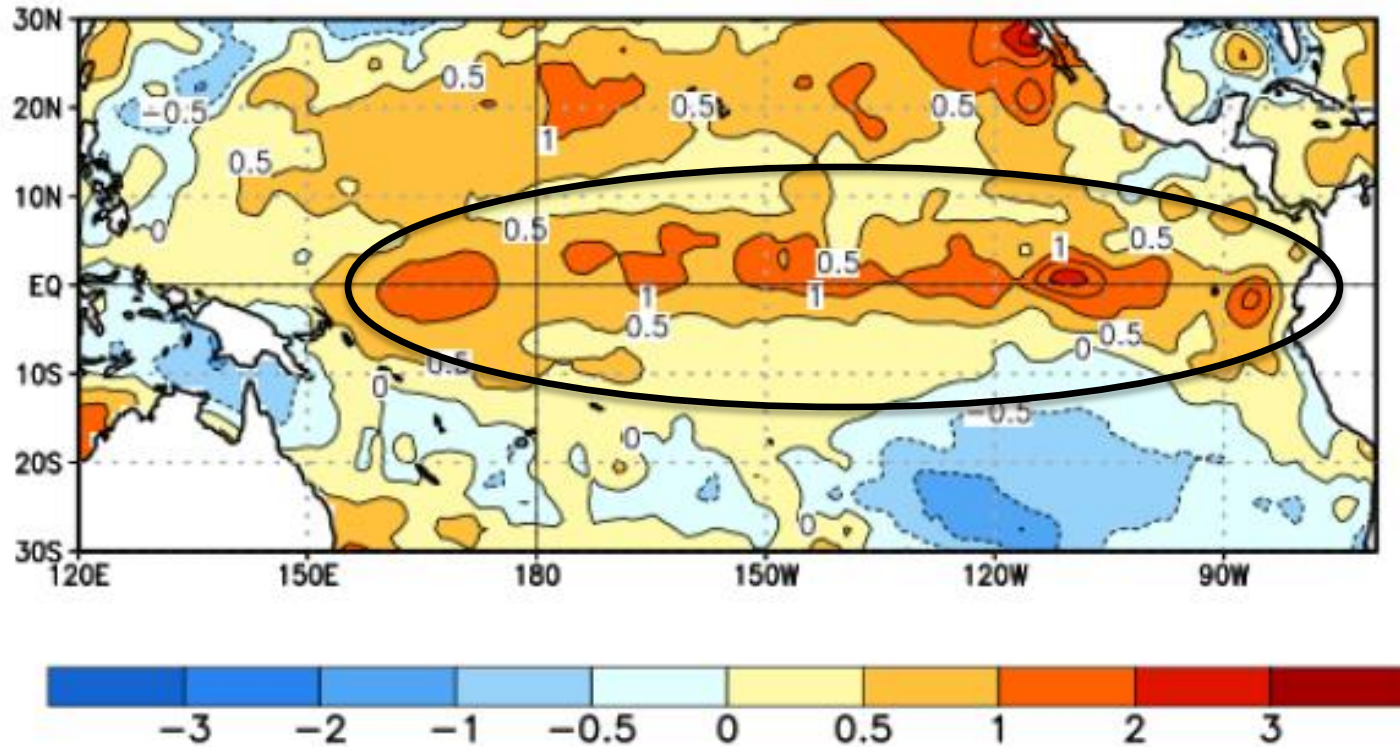
**U.S. 3.96 Bil Bu 107.7 MMT**

**Canada 6.0 MMT**



# Pacific Temperatures

Average SST Anomalies  
2 NOV 2014 – 29 NOV 2014



Above normal over much of equatorial Pacific.



# Australia SOI



## SOI values for 04 Dec 2014

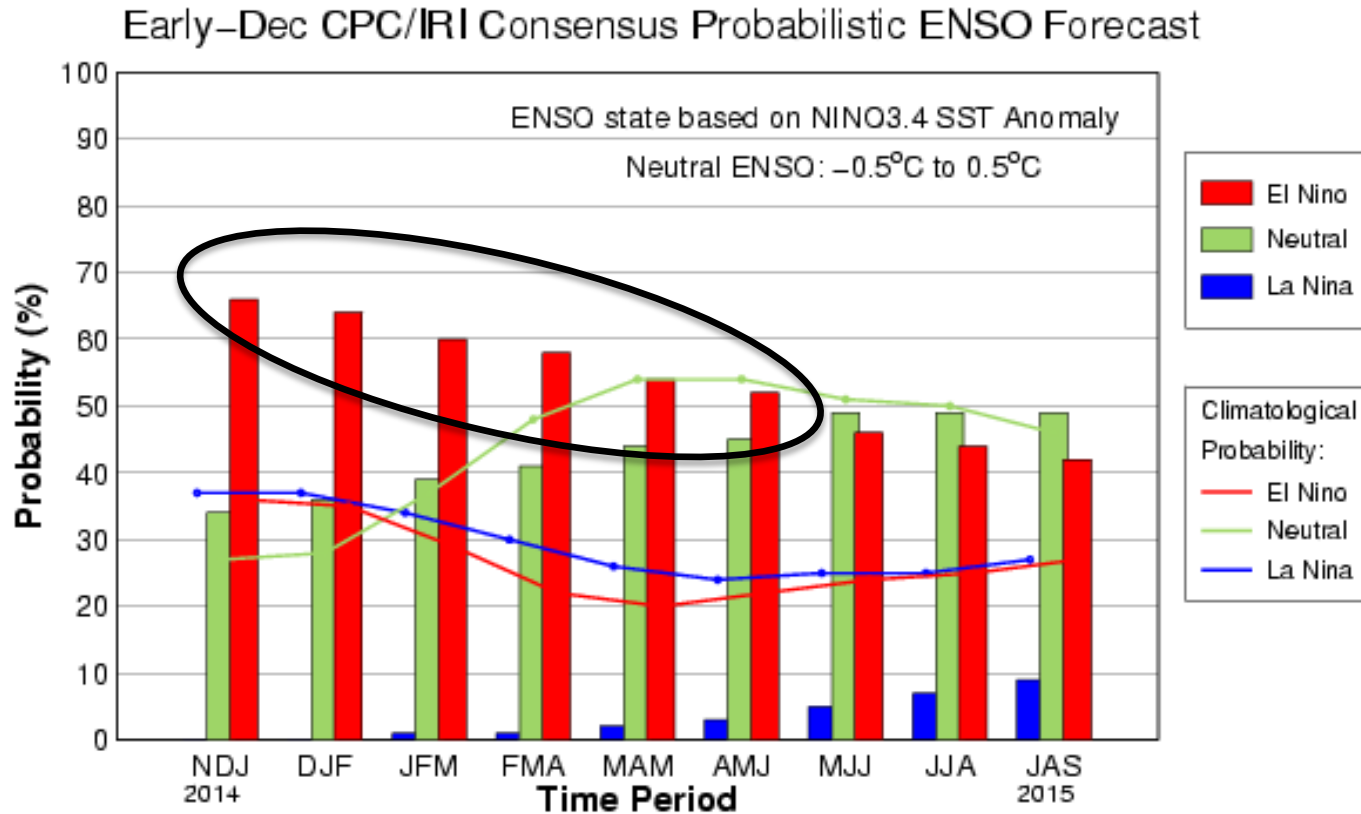
Average for last 30 days	<b>-8.4</b>
Average for last 90 days	<b>-7.7</b>
Daily contribution to SOI calculation	-3.4

## Monthly average SOI values

September	-6.6
October	-8.2
<b>November</b>	<b>-8.0</b>

Values hovering around El Nino.

# IRI—El Nino To Build

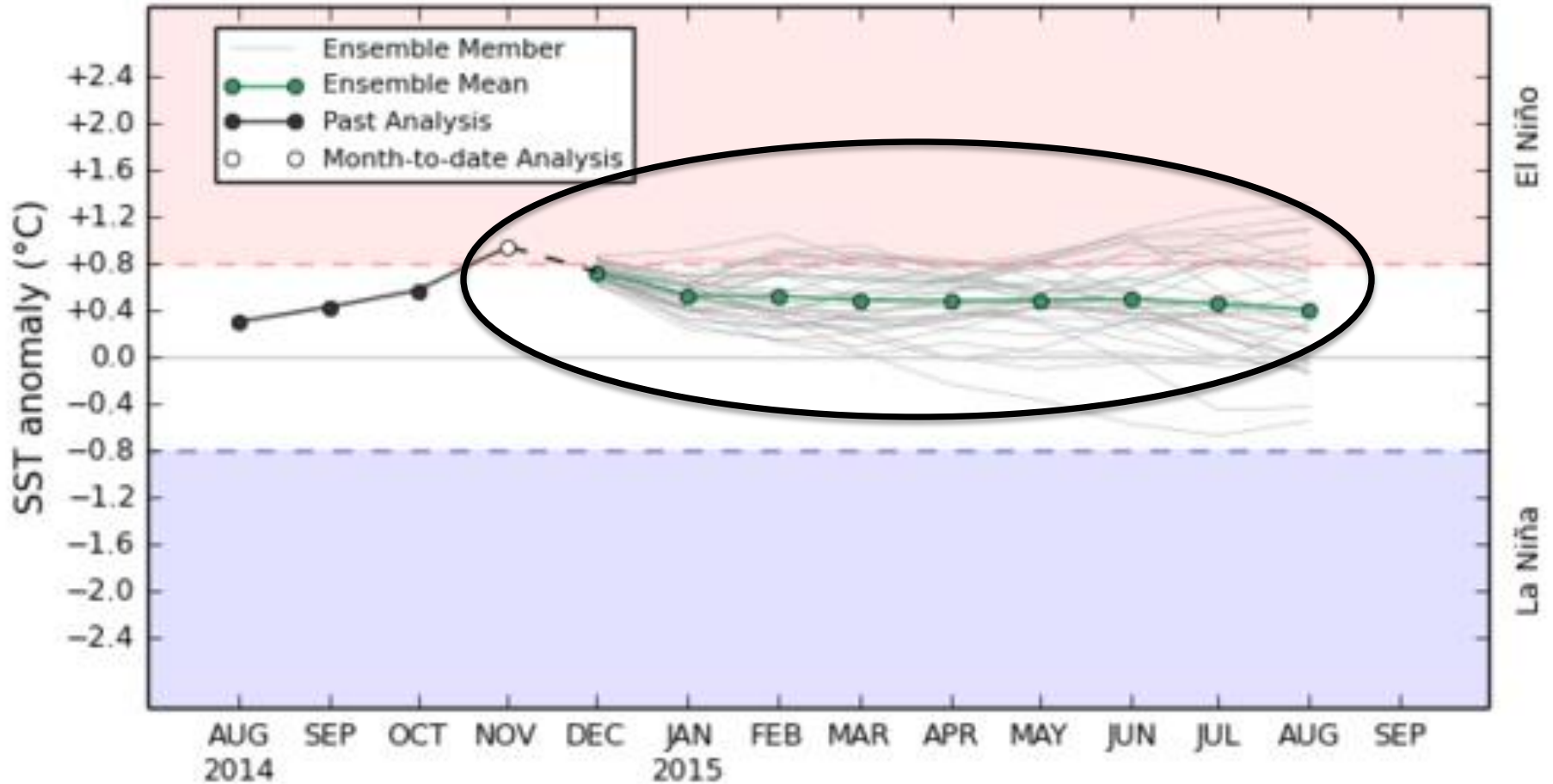


Continued trend toward El Niño during summer through fall season.



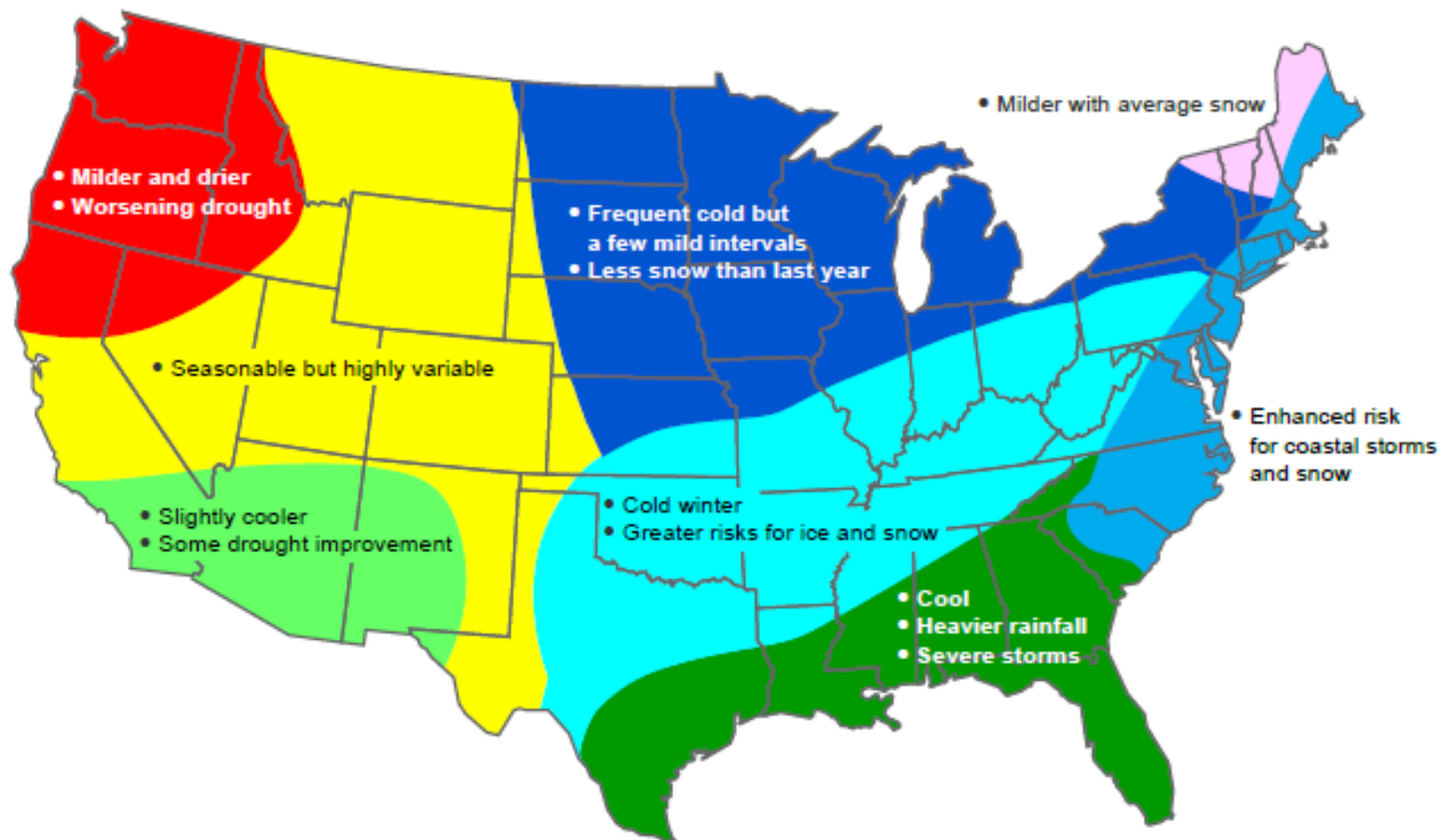
# Australia El Niño Forecast

POAMA monthly mean NINO34 - Forecast Start: 30 NOV 2014



# DTN Winter Forecast

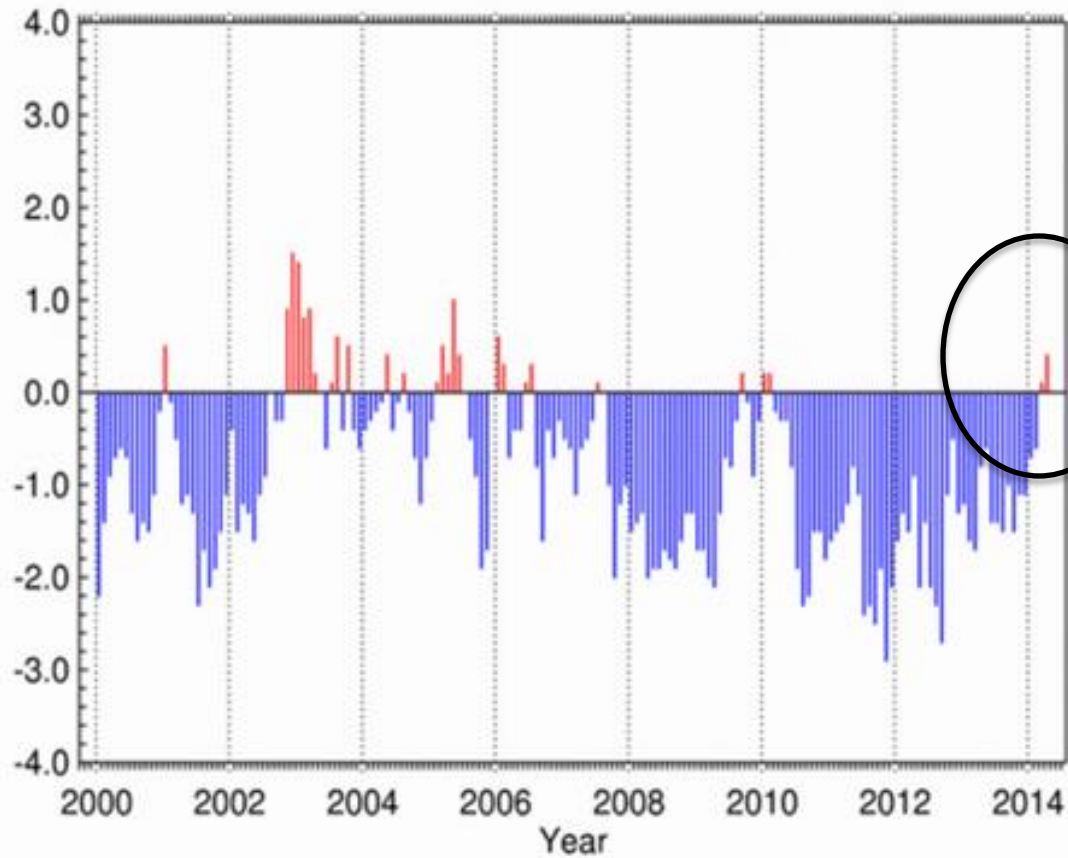
## Winter Outlook 2014-15





# PDO Update

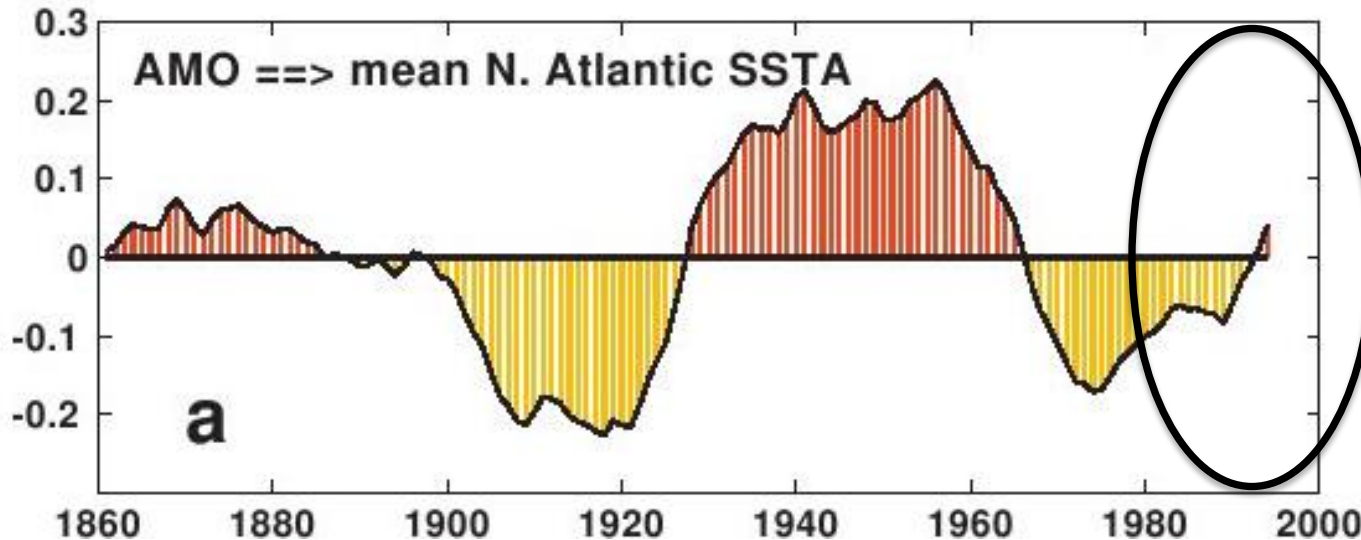
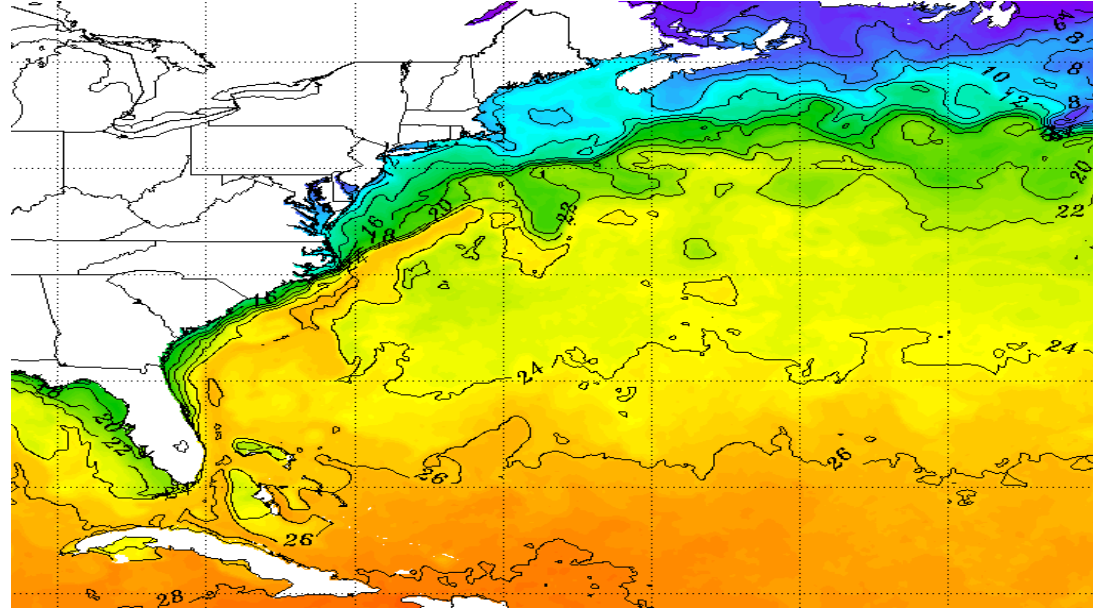
## Pacific Decadal Oscillation (PDO)



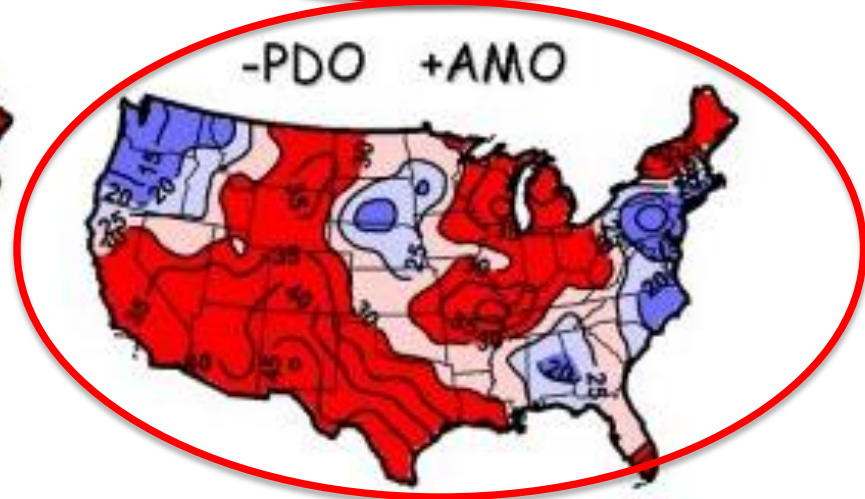
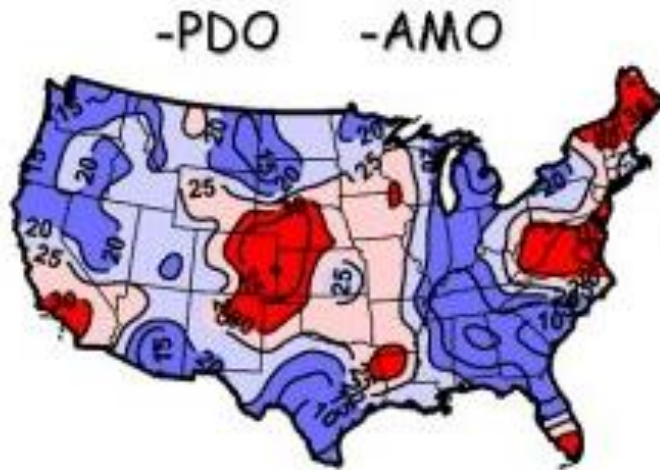
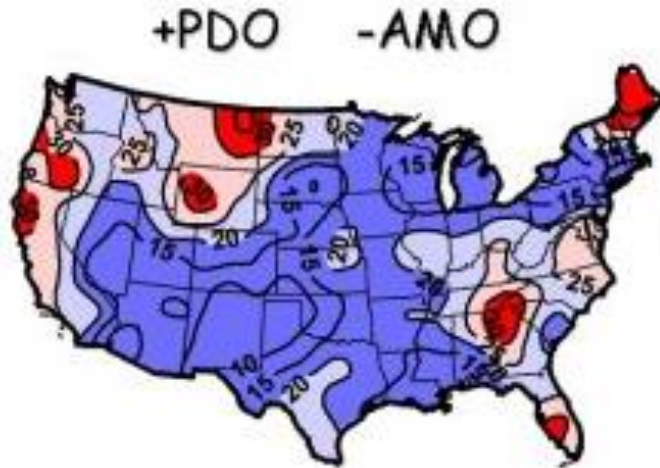
Weak Positive

# AMO Update

Warm values in much of the basin.



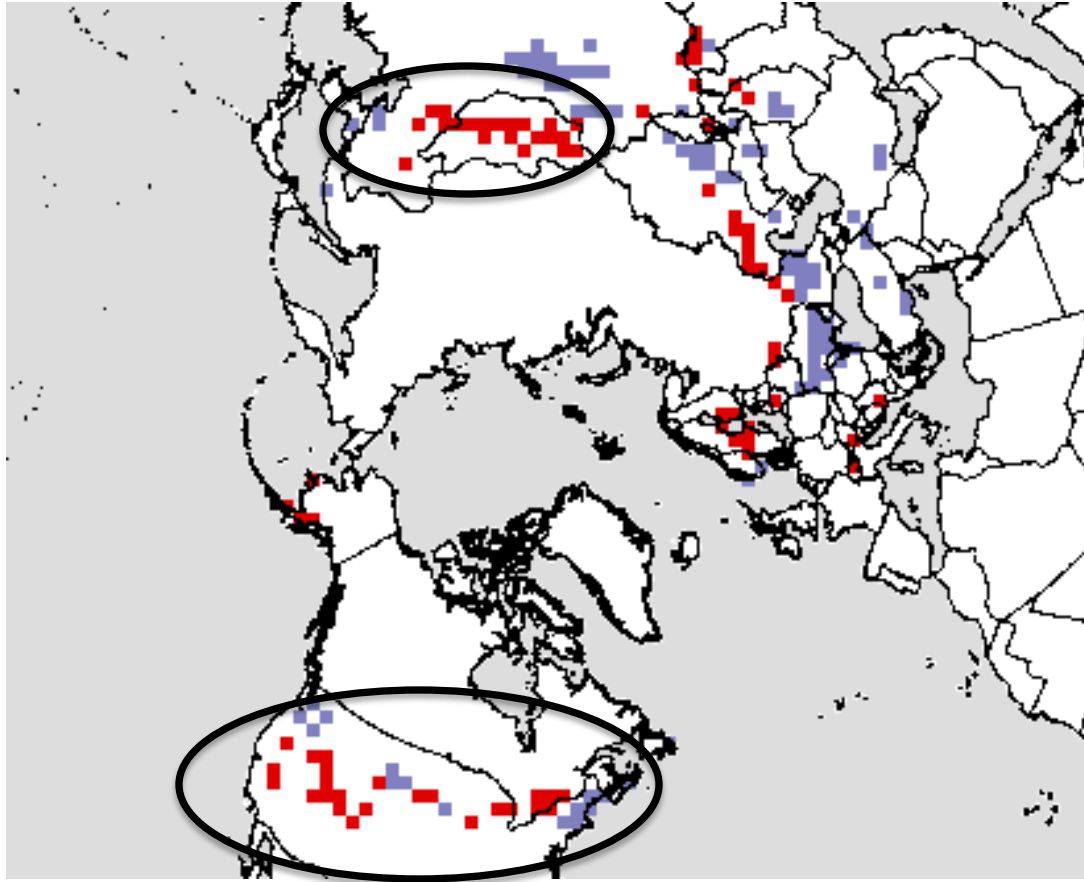
# PDO-AMO Impact



25% = normal drought frequency



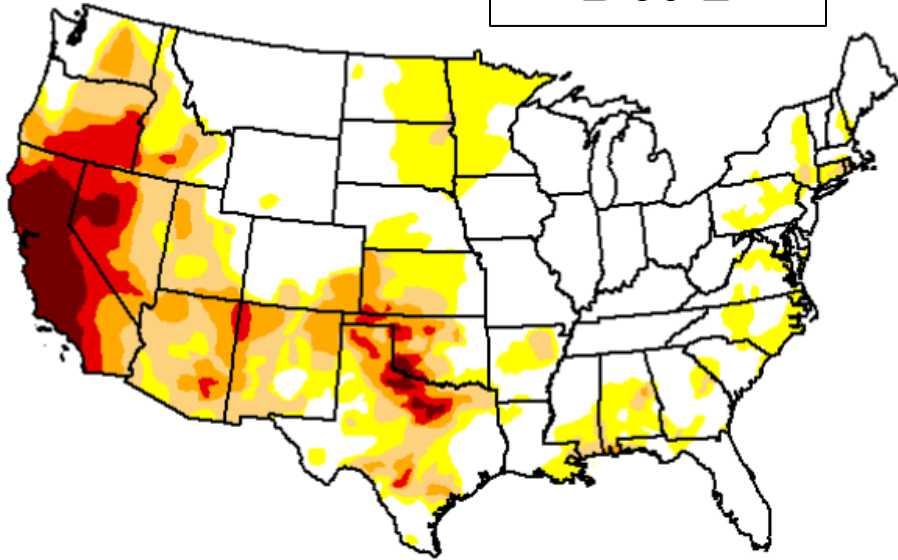
# No. Hemisphere Snow Cover



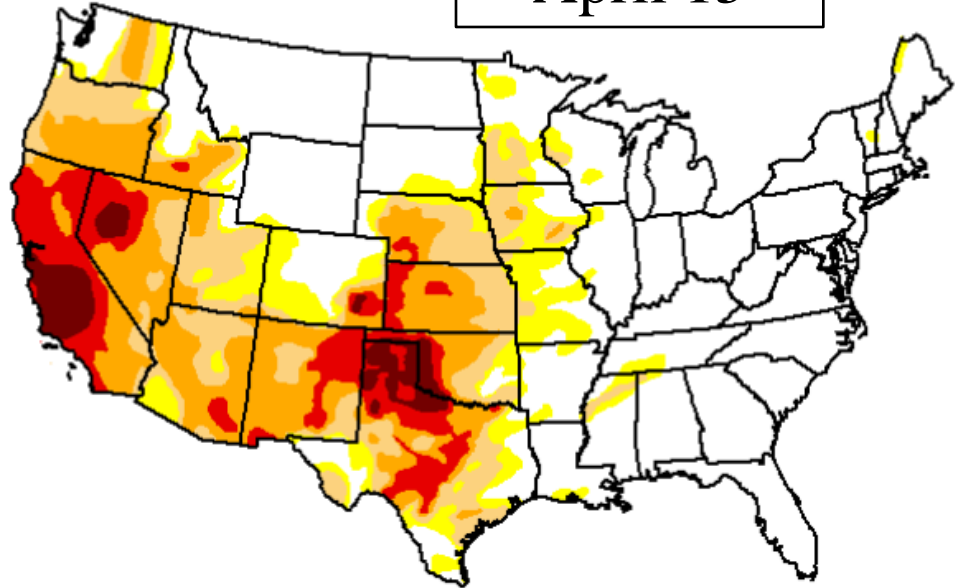
Tradeoff in below and above normal.

# Drought Monitor

Dec 2



April 15



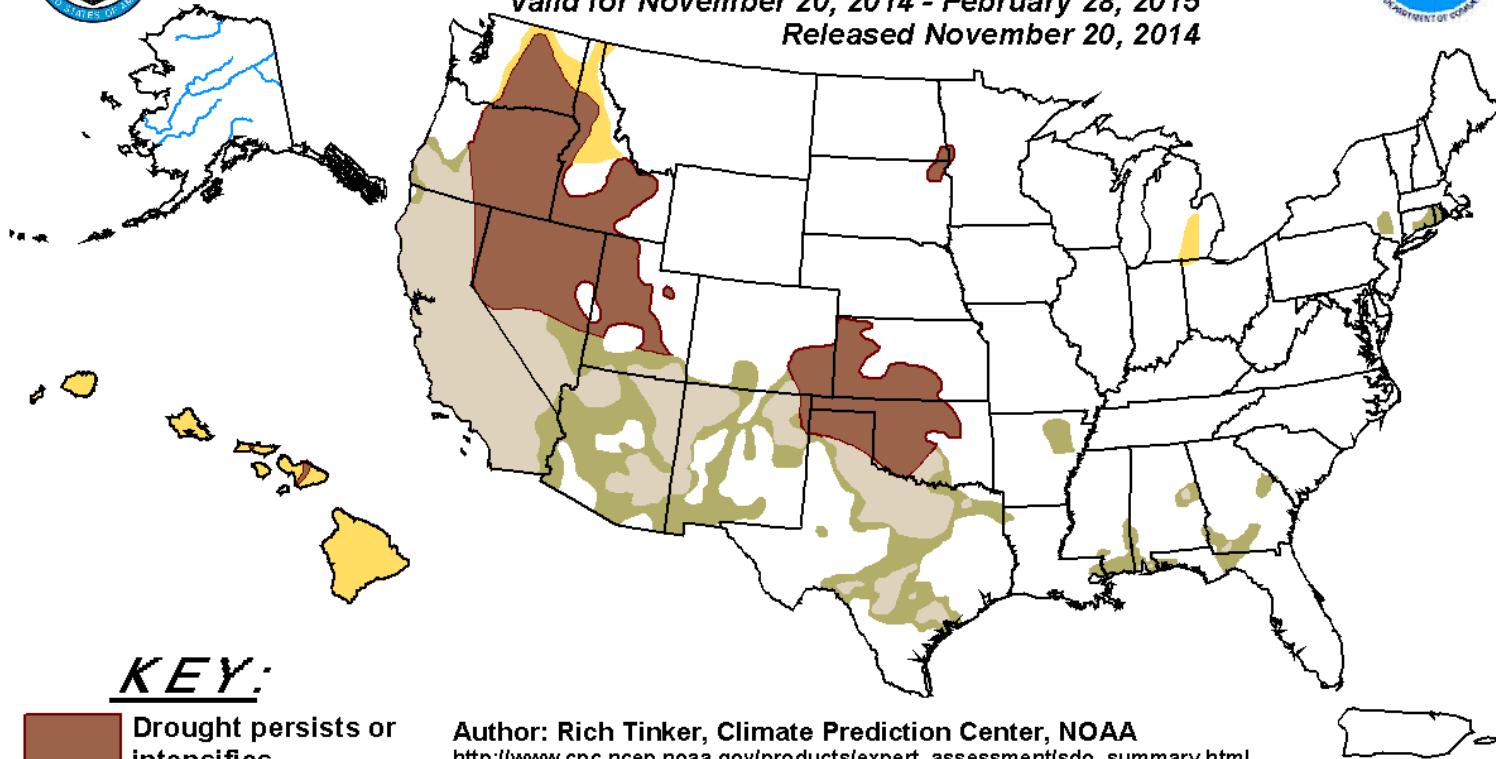
# Drought Forecast







## U.S. Seasonal Drought Outlook

### Drought Tendency During the Valid Period

Valid for November 20, 2014 - February 28, 2015  
Released November 20, 2014



### KEY:

-  Drought persists or intensifies
-  Drought remains but improves
-  Drought removal likely
-  Drought development likely

**Author: Rich Tinker, Climate Prediction Center, NOAA**  
[http://www.cpc.ncep.noaa.gov/products/expert\\_assessment/sdo\\_summary.html](http://www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.html)

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity).

For weekly drought updates, see the latest U.S. Drought Monitor.

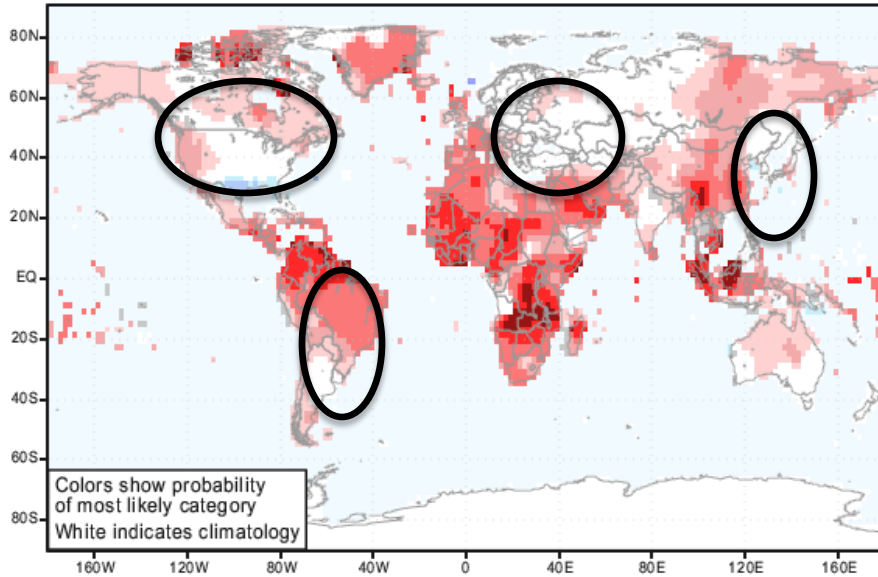
NOTE: The tan area areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period although drought will remain.

The Green areas imply drought removal by the end of the period (D0 or none)

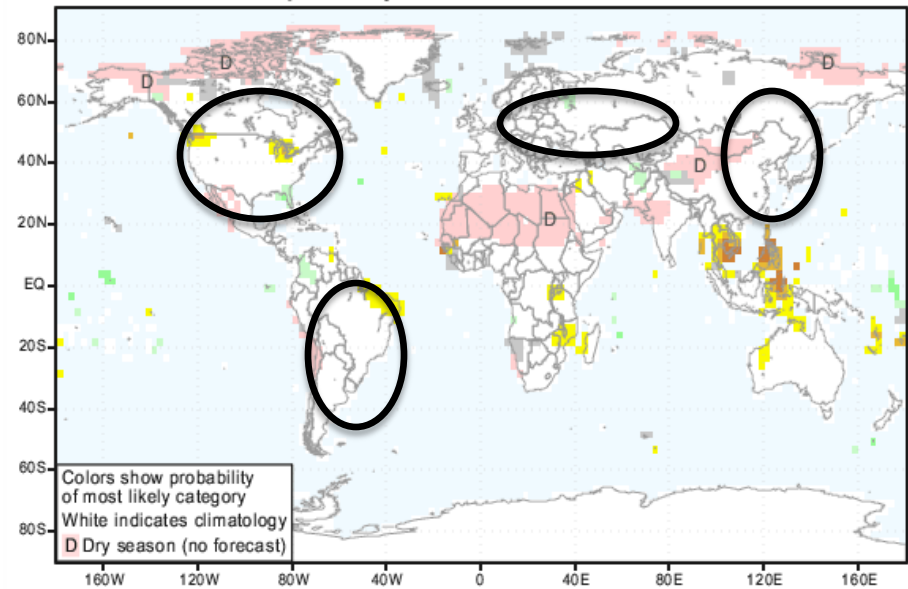


# Look At 2015 Spring

IRI Multi-Model Probability Forecast for Temperature for March-April-May 2015, Issued November 2014



IRI Multi-Model Probability Forecast for Precipitation for March-April-May 2015, Issued November 2014



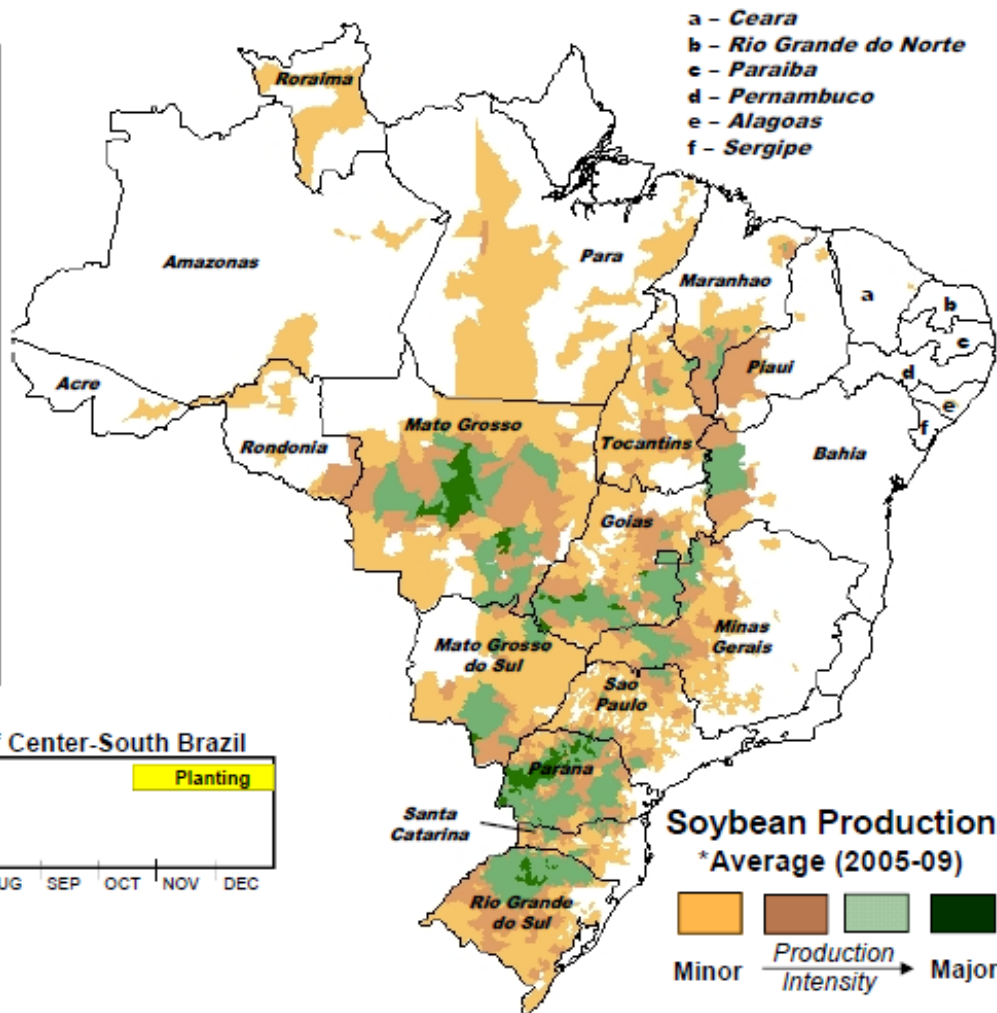
# Brazil Soybean Areas

## Brazil Soybeans

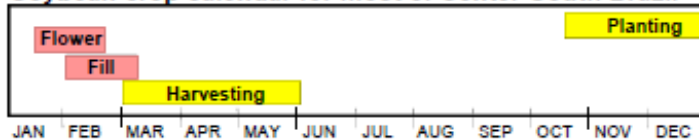
**\* State-Level Production (as % of total)**

Mato Grosso	30
Parana	19
Rio Grande do Sul	13
Goias	12
Mato Grosso do Sul	8
Minas Gerais	5
Bahia	4
Sao Paulo	3
Maranhao	2
Santa Catarina	2
Tocantins	2
Other	~2

\* 2005 to 2009 Average  
Source: IBGE Brazil

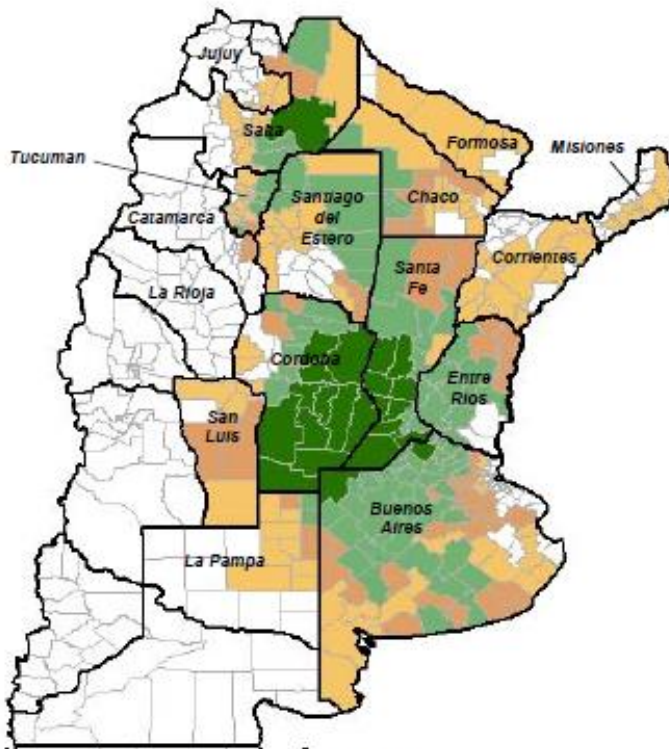


Soybean crop calendar for most of Center-South Brazil



# Argentina Soybean Areas

## Argentina Soybeans

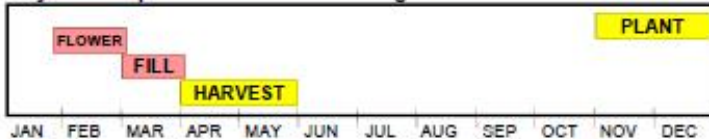


**\* State-Level Production (as % of total)**

Cordoba	29
Buenos Aires	27
Santa Fe	24
Entre Rios	7
Santiago del Estero	4
Salta	3
Chaco	3
Tucuman	2
La Pampa	1
Other States	~1

\* 2005/06 to 2009/10 Average  
Source: SAGPyA

Soybean crop calendar for most of Argentina



2<sup>nd</sup> soybean crop is double cropped after winter wheat (harvested May – Jun)

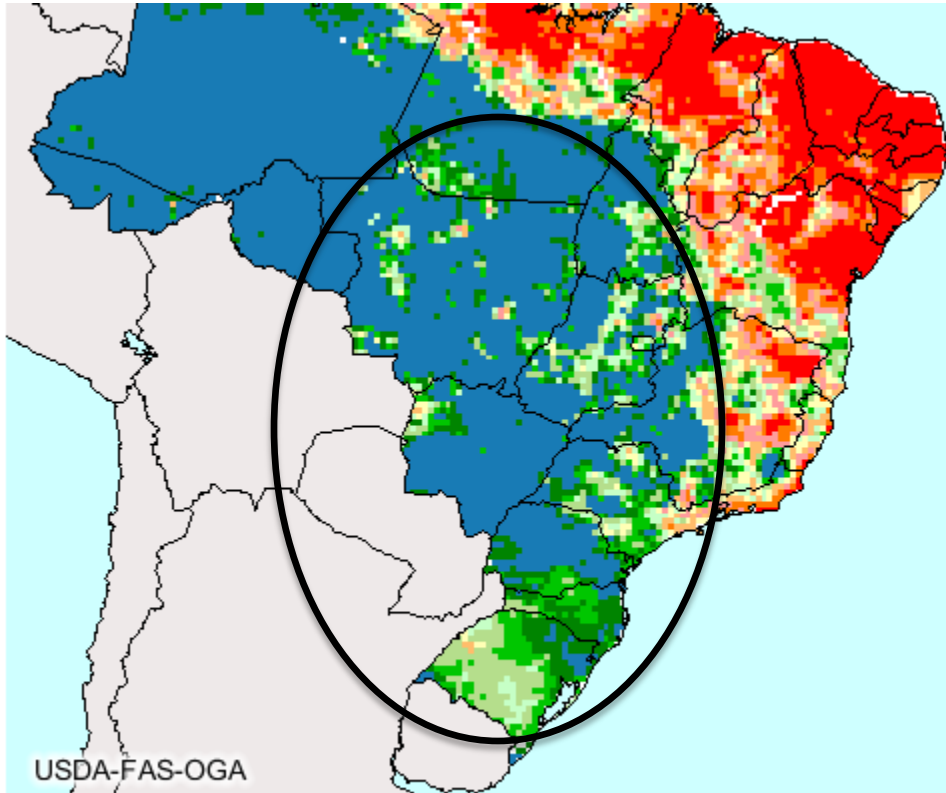
**Soybean Production**  
\*Average (2005/06-09/10)



\*Source: SAGPyA

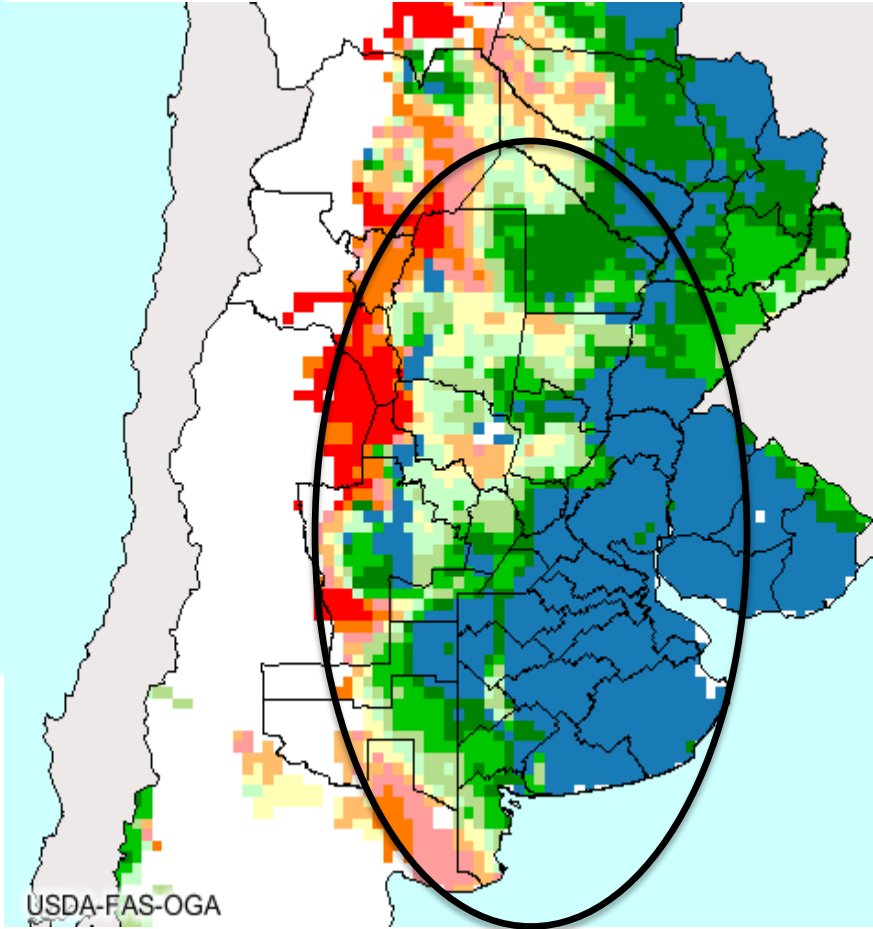


# South Am Soil Moisture



Brazil

Argentina

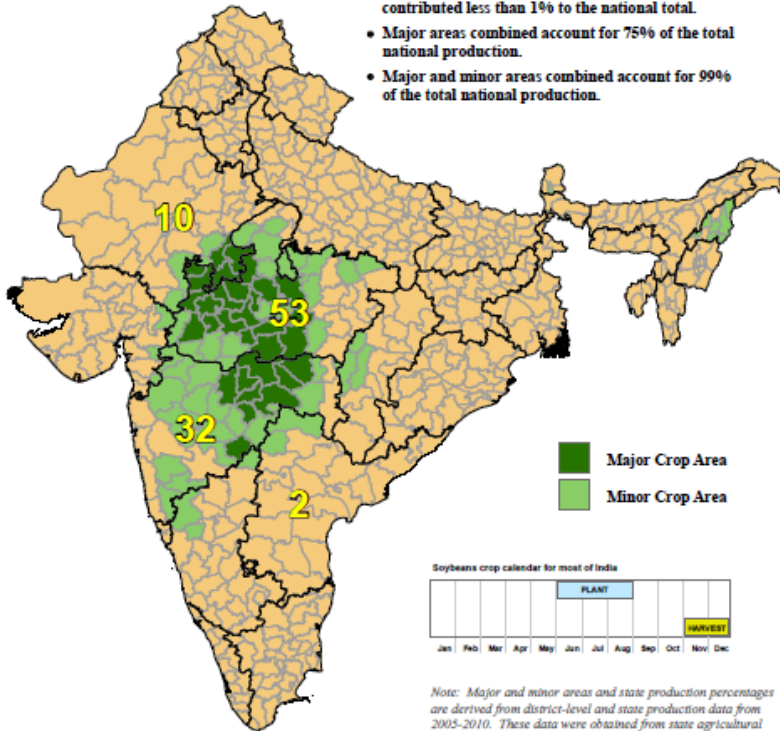


USDA-FAS-OGA

# India Crop Areas

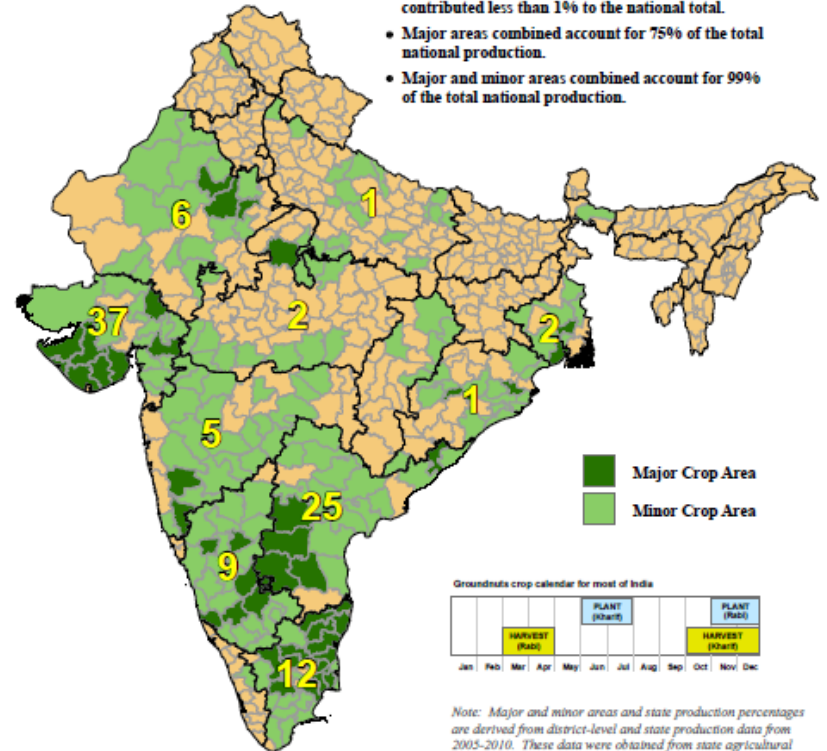
## India: Soybeans

- Yellow numbers indicate the percent each state contributed to the total national production. States not numbered contributed less than 1% to the national total.
- Major areas combined account for 75% of the total national production.
- Major and minor areas combined account for 99% of the total national production.

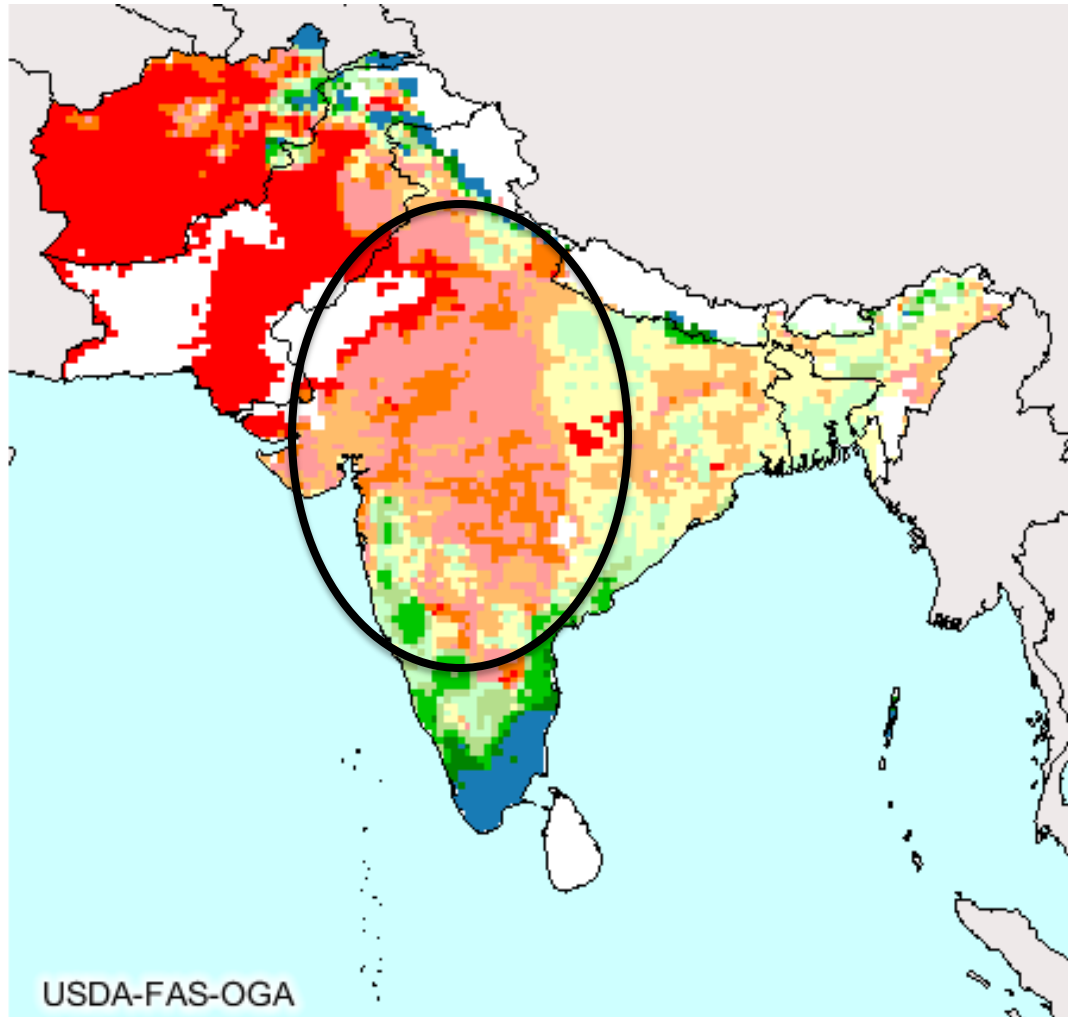


## India: Groundnuts

- Yellow numbers indicate the percent each state contributed to the total national production. States not numbered contributed less than 1% to the national total.
- Major areas combined account for 75% of the total national production.
- Major and minor areas combined account for 99% of the total national production.



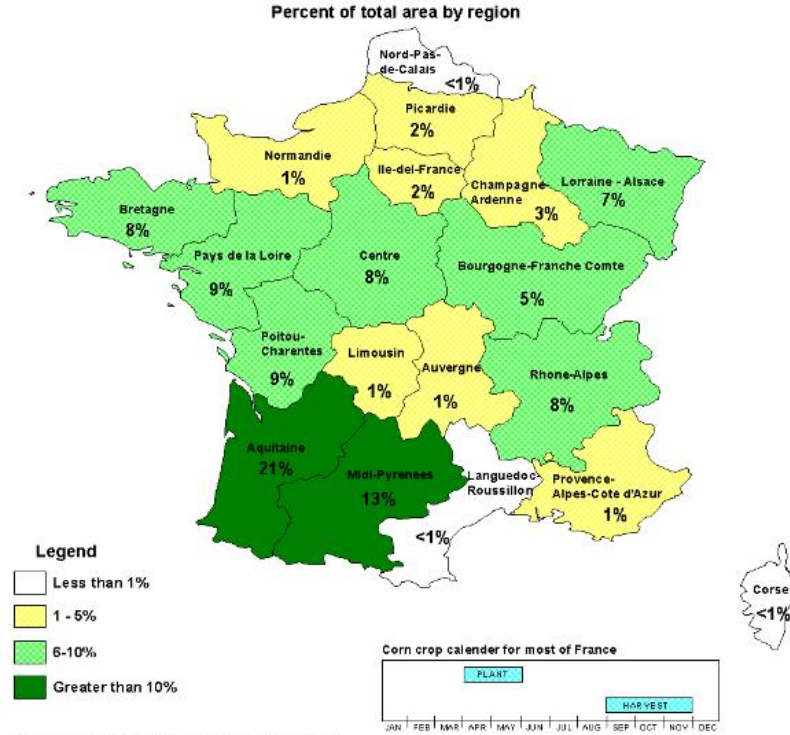
# India Soil Moisture



Short in many oilseed areas.

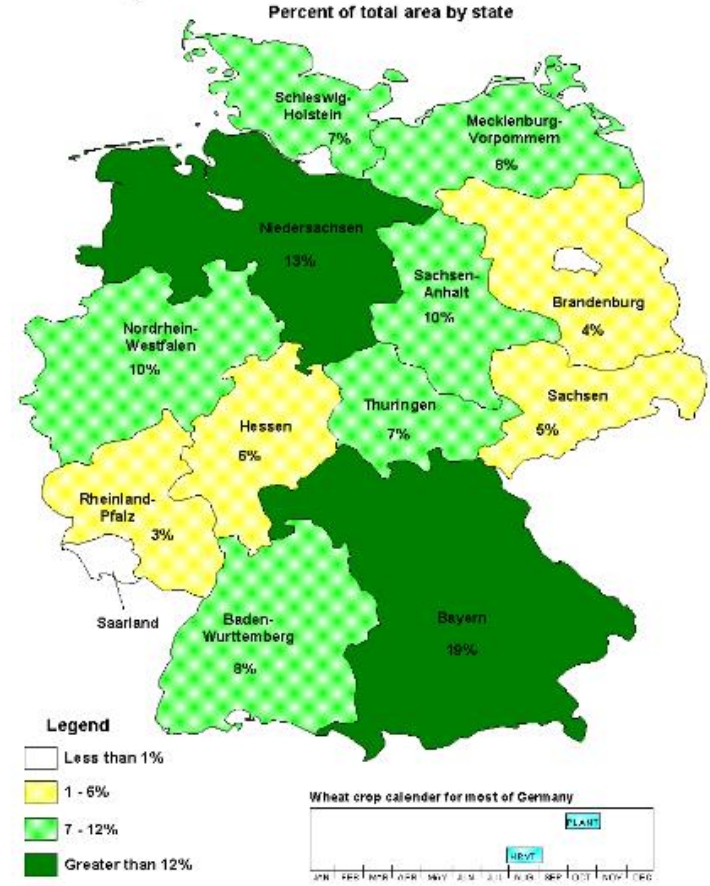
# Europe Crop Areas

## France: Corn



France Corn

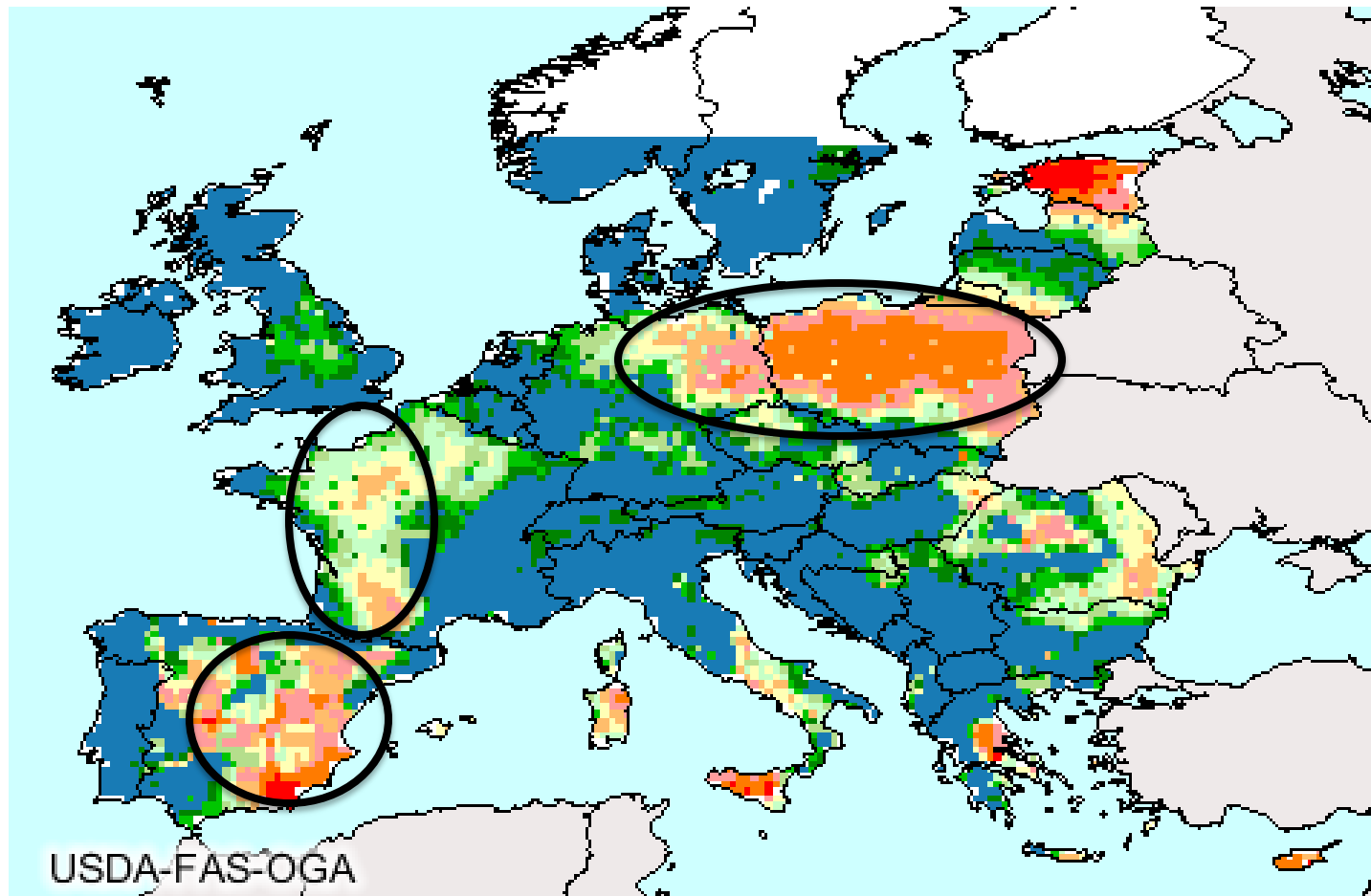
## Germany: Wheat



Germany Wheat



# Europe Soil Moisture

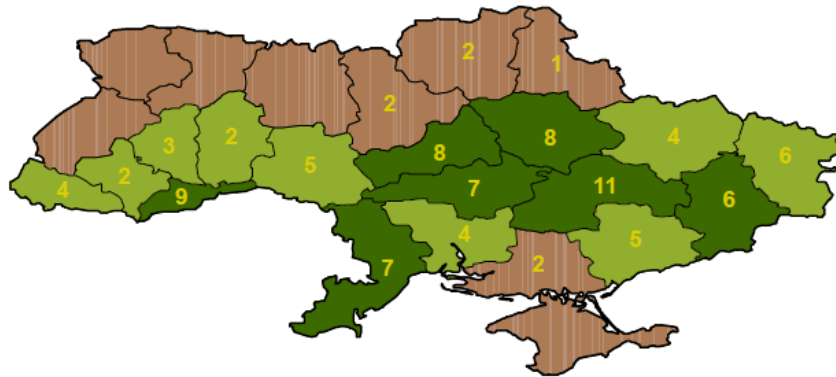


Scattered dry areas.

# Ukraine Crop Areas

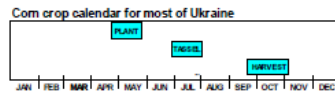
## Ukraine: Corn

Yellow numbers indicate percent of national total each oblast contributes to national area. Oblasts not numbered contribute less than 1% to the national total.



**Legend**  
■ Major growing areas  
■ Minor growing areas

- Major growing areas combined account for 60% of total national area
- Major and minor growing areas combined account for 90% of total national area
- Major and minor growing areas and country production percentages based upon averaged oblast-level data from 2000 obtained from the Ukraine Ministry of Statistics



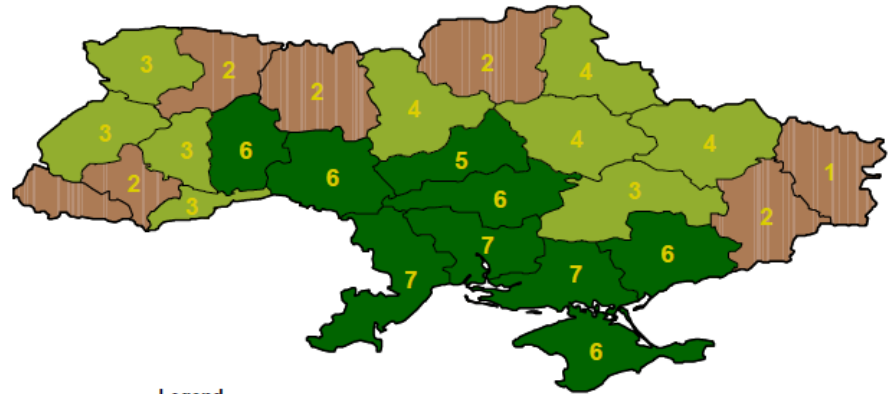
JOINT AGRICULTURAL WEATHER FACILITY (JAWF)

# Corn

# Winter Wheat

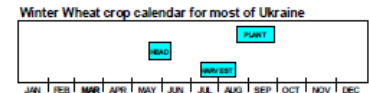
## Ukraine: Winter Wheat

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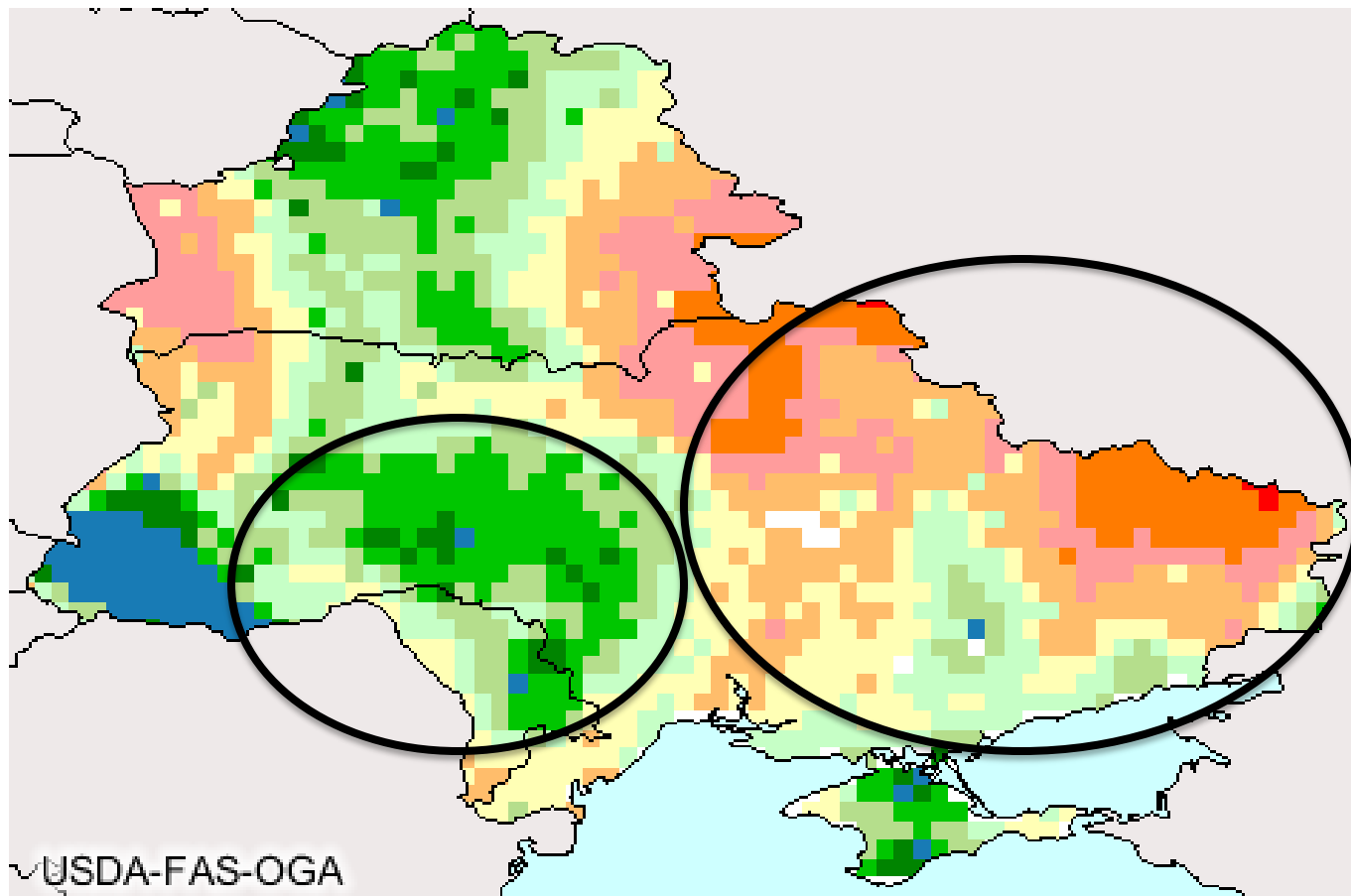
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JOINT AGRICULTURAL WEATHER FACILITY (JAWF)

# Ukraine Soil Moisture

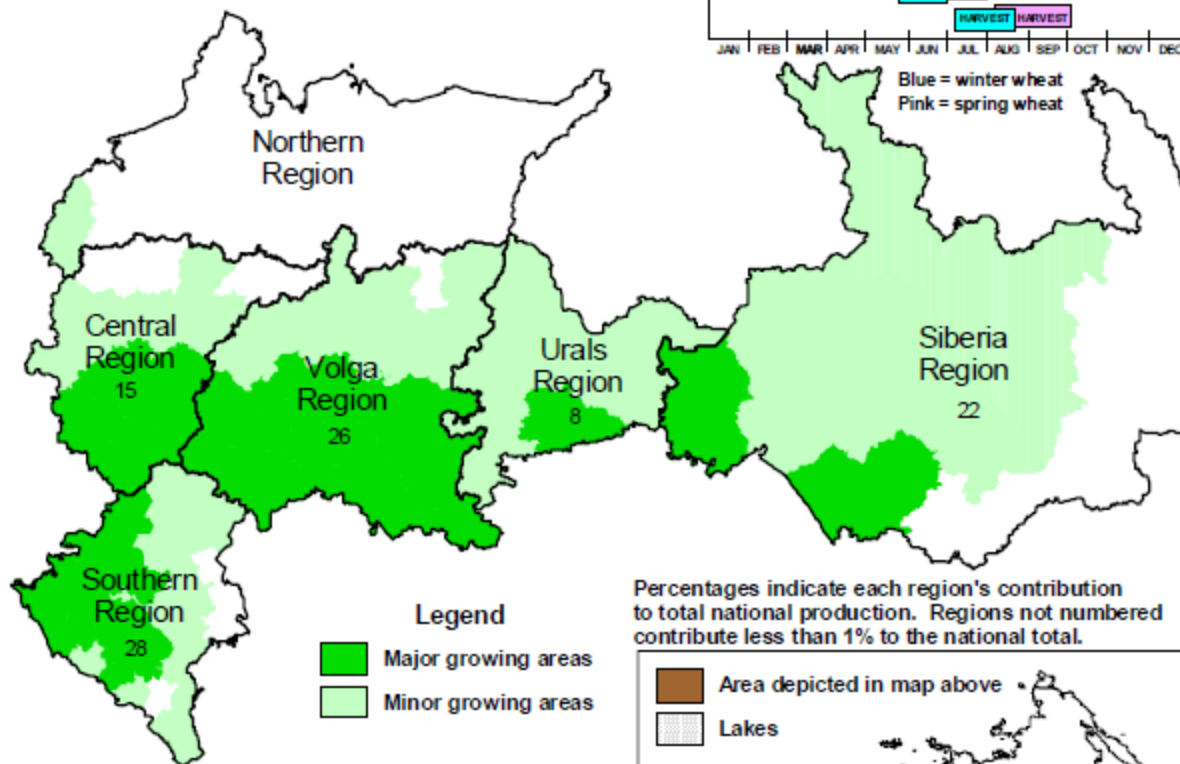




Adequate to surplus west. Much drier east.

# Russia Wheat Areas

## Russia: Wheat

Wheat crop calendar for most of Russia



**Legend**  
 Major growing areas  
 Minor growing areas

Percentages indicate each region's contribution to total national production. Regions not numbered contribute less than 1% to the national total.

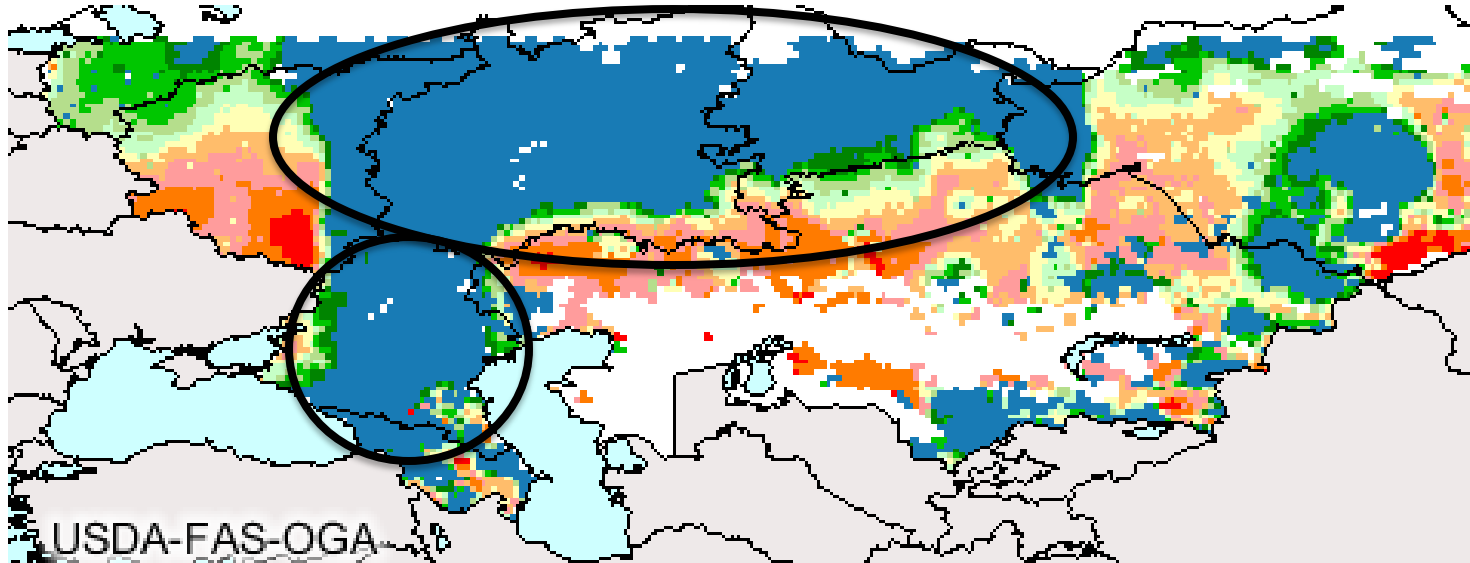


- Major growing areas combined account for 75% of total national production
- Major and minor growing areas combined account for 99% of total national production
- Major and minor growing areas and country production percentages based upon averaged oblast-level data from 1996-2000.

Source: Sovecon Agrokhele Bulletin Statistics and Forecasts February 18, 2003 Issue No.4 (41), 2002.



# Russia Soil Moisture



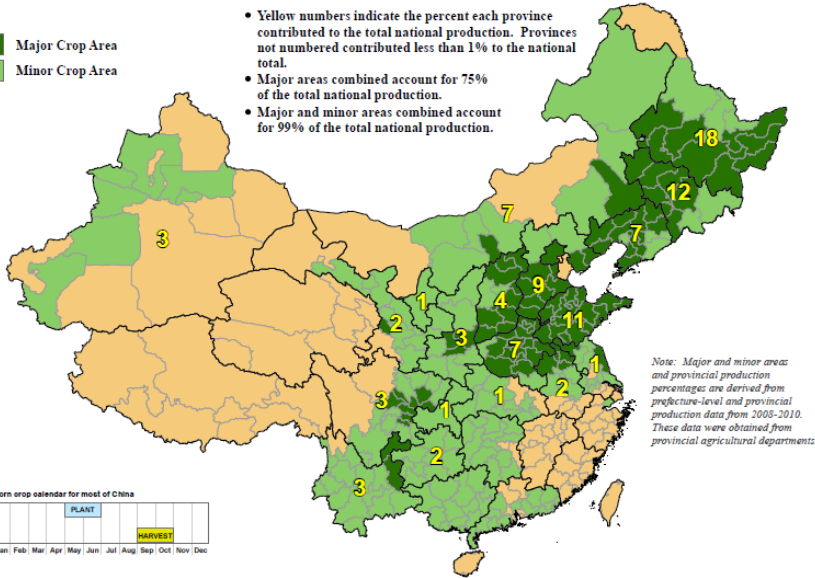
Adequate to surplus in many areas.

# China Row Crop Areas

## China: Corn

- Major Crop Area
- Minor Crop Area

- Yellow numbers indicate the percent each province contributed to the total national production. Provinces not numbered contributed less than 1% to the national total.
- Major areas combined account for 75% of the total national production.
- Major and minor areas combined account for 99% of the total national production.



USDA Agricultural Weather Assessments  
World Agricultural Outlook Board

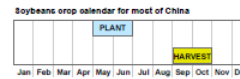
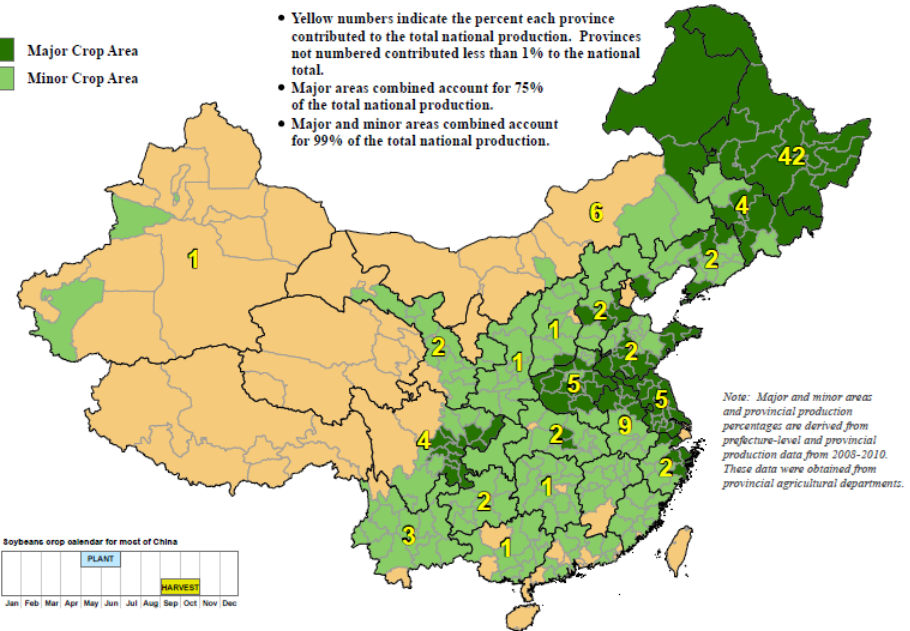
## Corn

## Soybeans

## China: Soybeans

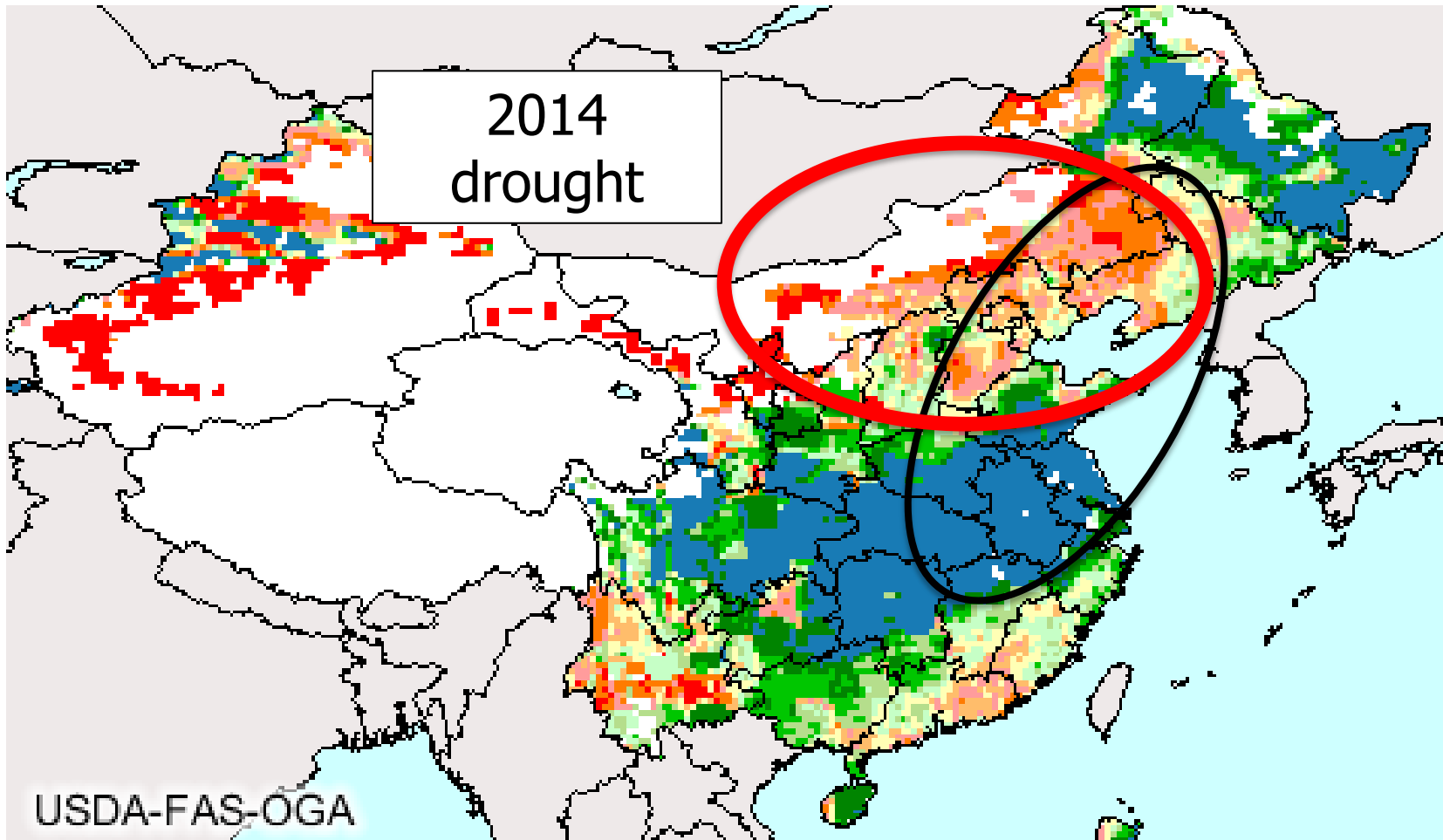
- Major Crop Area
- Minor Crop Area

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- Major and minor areas combined account for 99% of the total national production.



USDA Agricultural Weather Assessments  
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# China Soil Moisture



Variable in major corn areas.

**Thank You!**

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***DTN Sr Ag Meteorologist***

