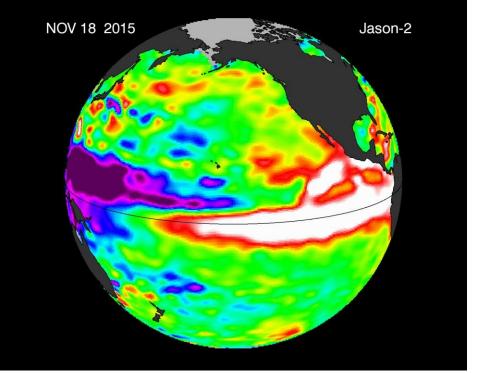


dtn Progressive 2016 Crop Weather:



El Nino Dominar

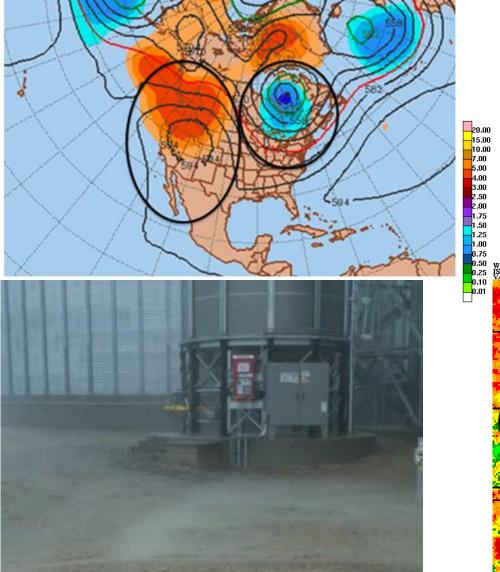


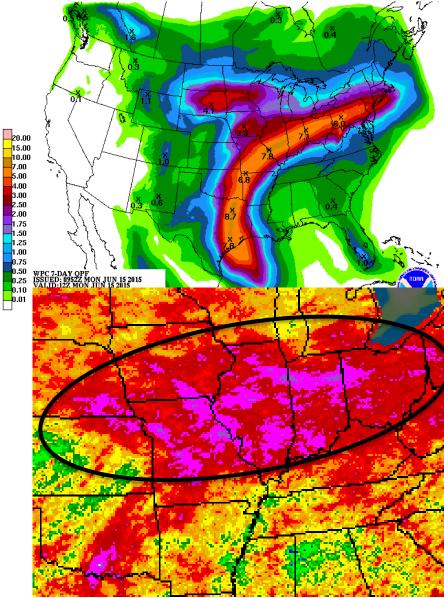


9th Annual DTN/Progressive Farmer Ag Summit



OGRESSIVEStubborn Pattern = Stormy StartRMERStubborn Pattern = Stormy Start







WCB-ECB July Contrast





Eastern Nebraska

Southwestern Illinois



dtn Progressive Wide US Variety













El Nino Rides In—July '15



Latest Southern Oscillation Index (SOI) values

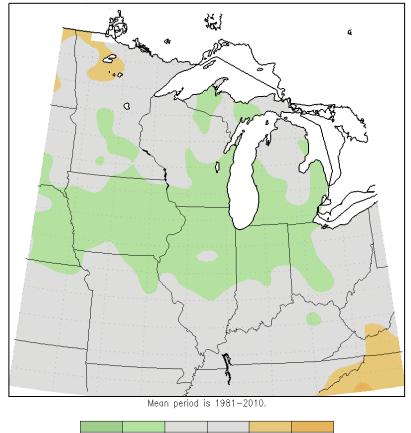


Values in El Nino category.



El Nino Temperature Effect

Average Temperature (°F): Departure from Mean June 1, 2015 to August 31, 2015





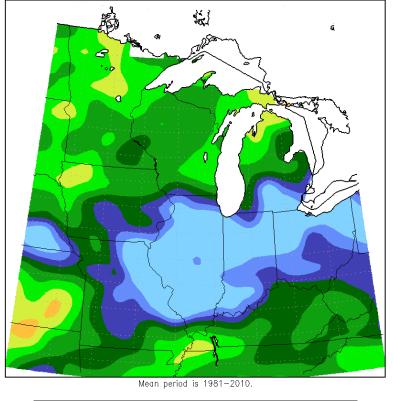
Midwestern Regional Climate Center Illinois State Water Survey, Prairie Research Institute University of Illinois at Urbana-Champaign Summer temps in Midwest were not stressfully hot.

Most values near to below normal.



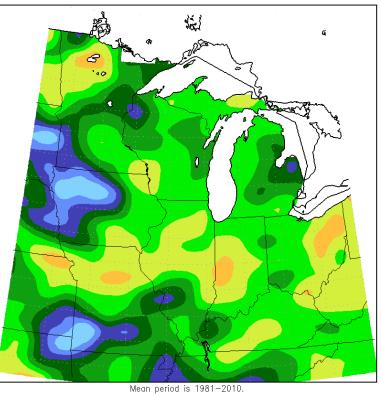
El Nino Precip Effect

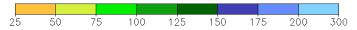
Accumulated Precipitation: Percent of Mean June 1, 2015 to June 30, 2015





Midwestern Regional Climate Center Illinois State Water Survey, Prairie Research Institute University of Illinois at Urbana-Champaign Accumulated Precipitation: Percent of Mean August 1, 2015 to August 31, 2015





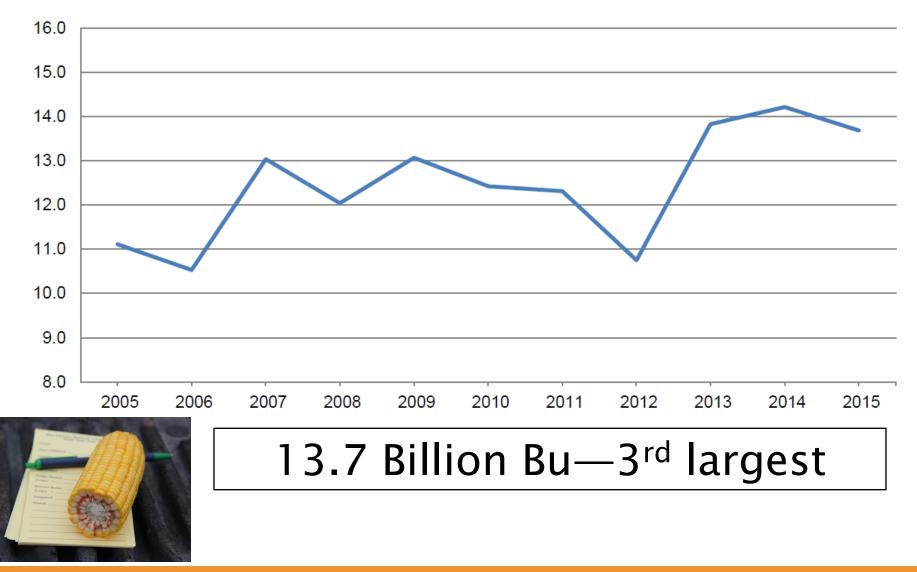
Midwestern Regional Climate Center Illinois State Water Survey, Prairie Research Institute University of Illinois at Urbana-Champaign

Drier versus normal later in summer.



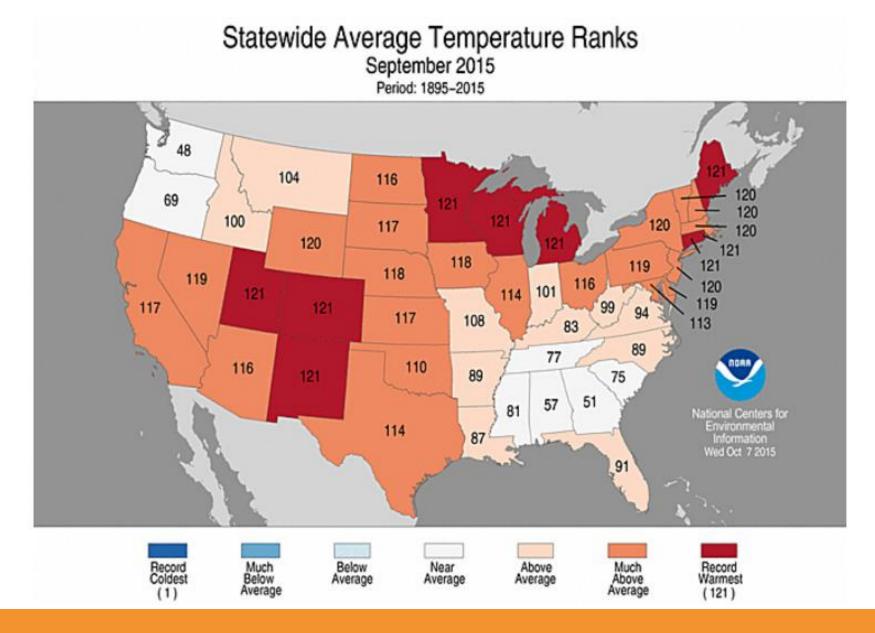
August USDA Corn Estimate

Billion bushels



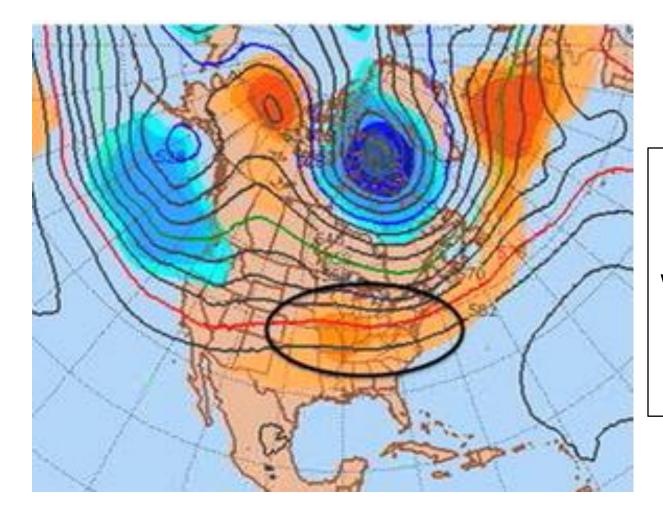


September Frost? Nope.





Fall 2015 Upper Air Pattern



Zonal flow allowed warm temps for ripening crops.



Harvest Stays Large



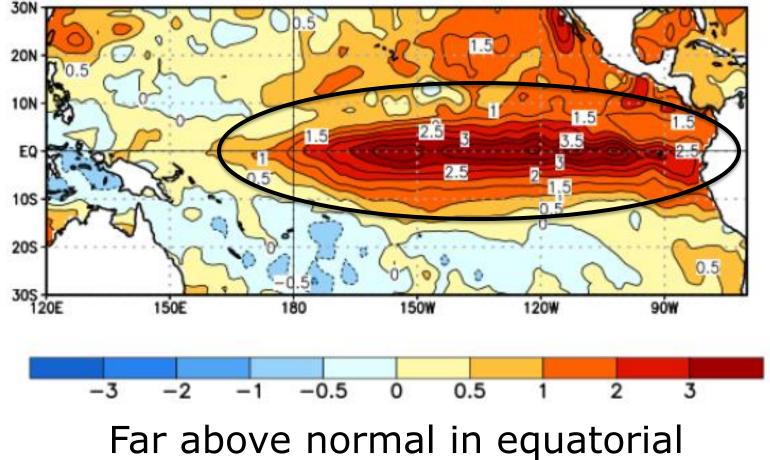
Corn—13.7 Bil Bushels

Soy—3.98 Bil Bushels



Pacific Temperatures

Average SST Anomalies 1 NOV 2015 - 28 NOV 2015



Pacific. 3rd warmest on record.



Australia SOI—Dec 2 2015

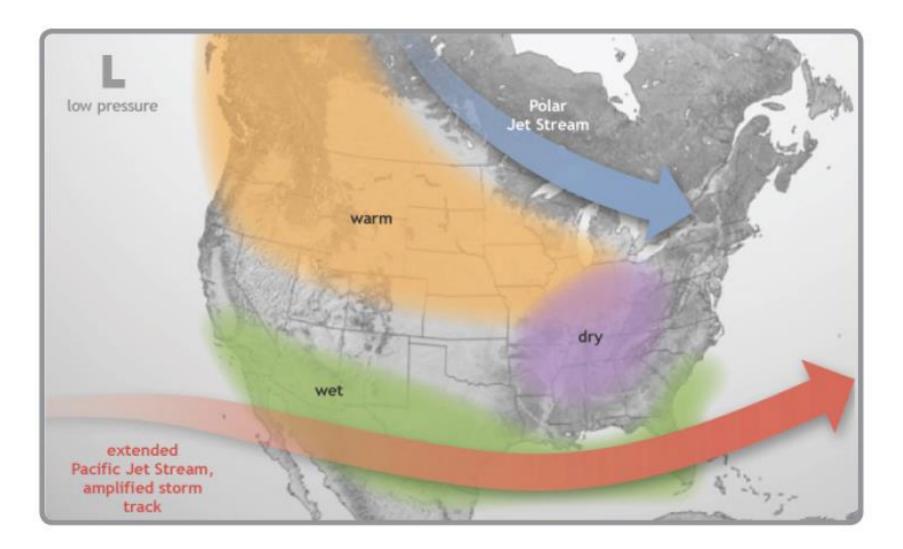




Values in moderate to strong El Nino category.

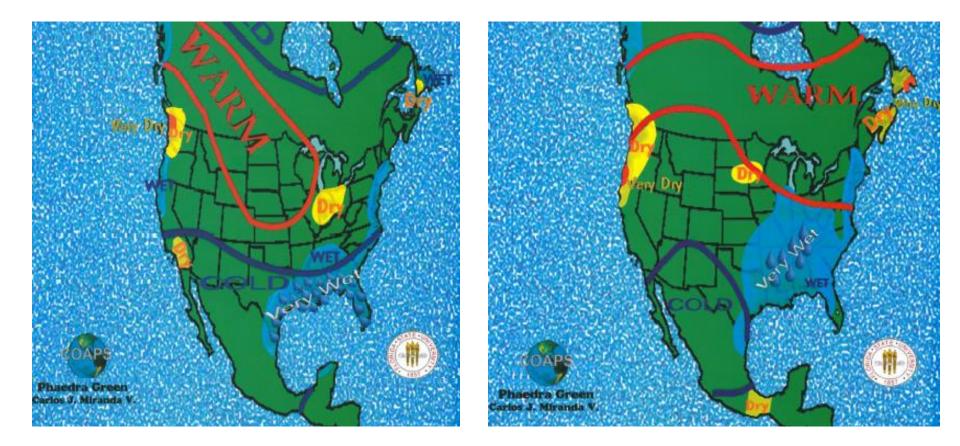


Winter El Nino Pattern





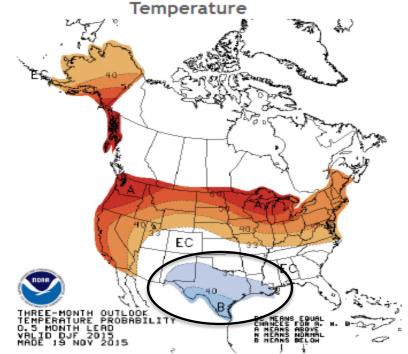
Winter & Spring Effect



Trends for U.S. weather pattern when El Nino is in effect.

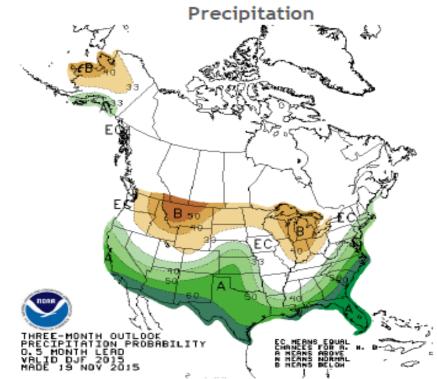


Winter Forecast

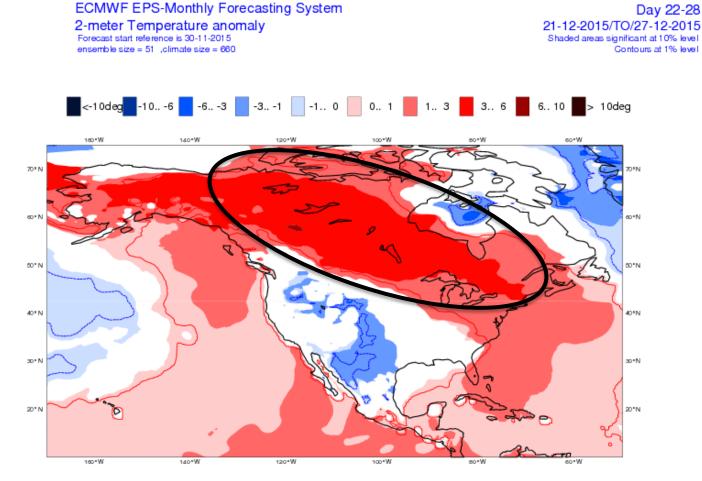


Above normal precip S Plains, S'east. Dry NW & Midwest.

Below normal temps confined to SW Plains.



Warmth Indeed For December

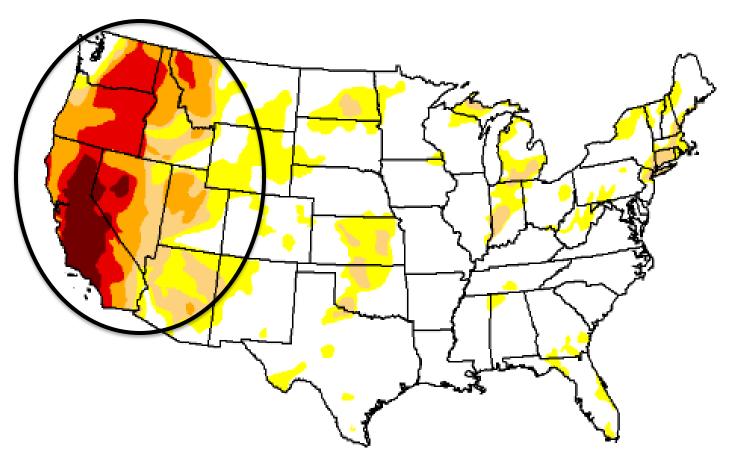


RESSIVE

Well above normal in Canadian Prairies. No Polar Vortex trifecta.



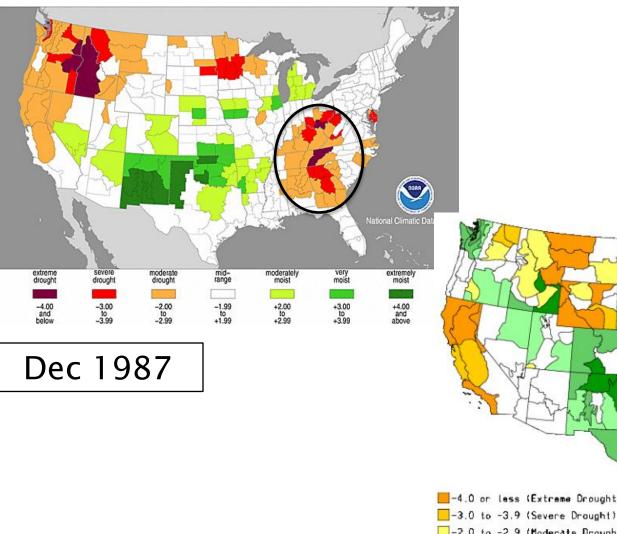
Drought Monitor



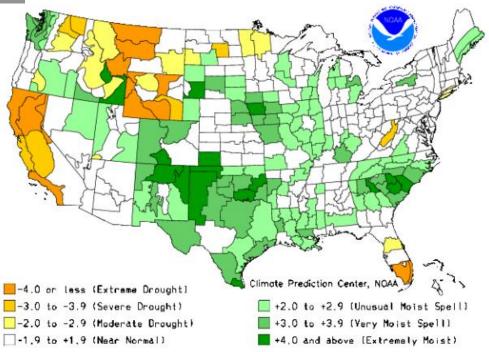
Issues still focus on western states.



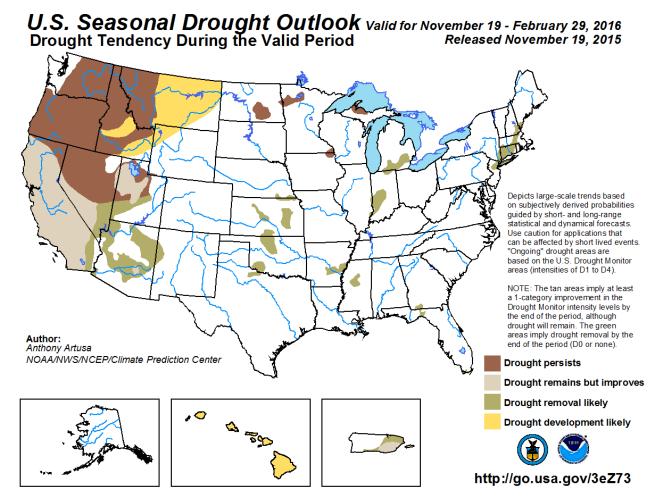
Palmer Drought Index



Nov 2015



Drought Forecast



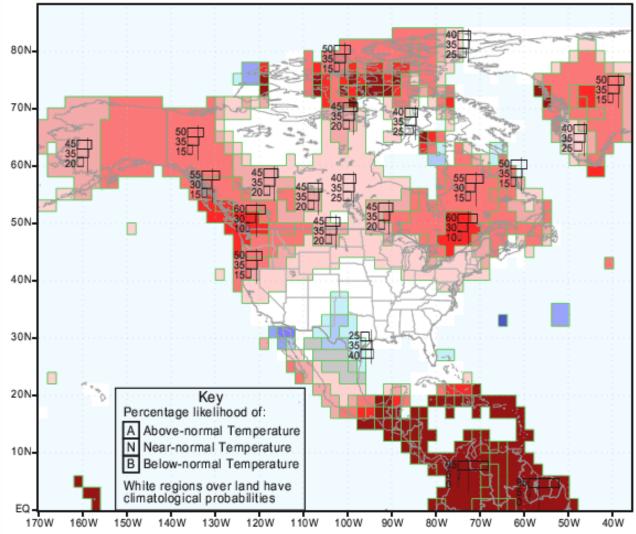
GRESSIVE

West improvement. Northwest constant. Removal elsewhere.



Spring Forecast

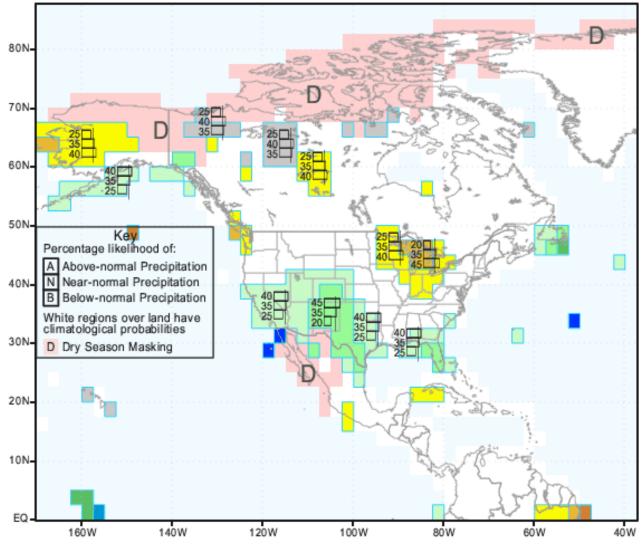
IRI Multi-Model Probability Forecast for Temperature for March-April-May 2016, Issued November 2015





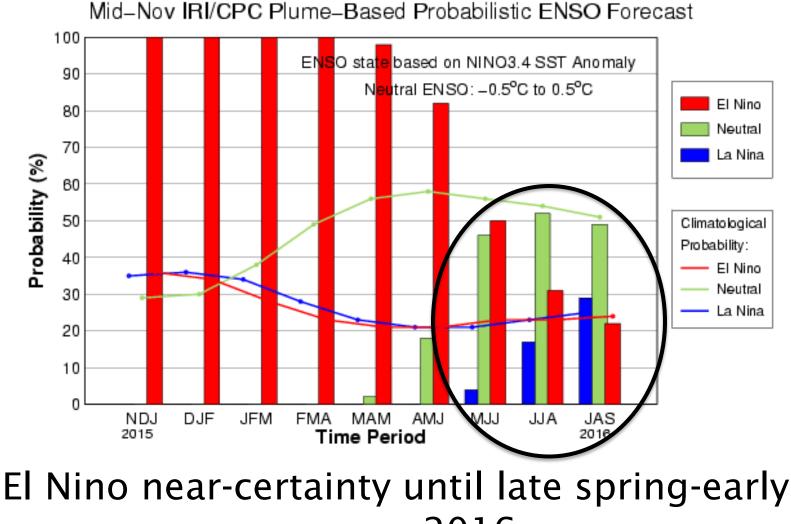
Spring Forecast

IRI Multi-Model Probability Forecast for Precipitation for March-April-May 2016, Issued November 2015





IRI El Nino Forecast



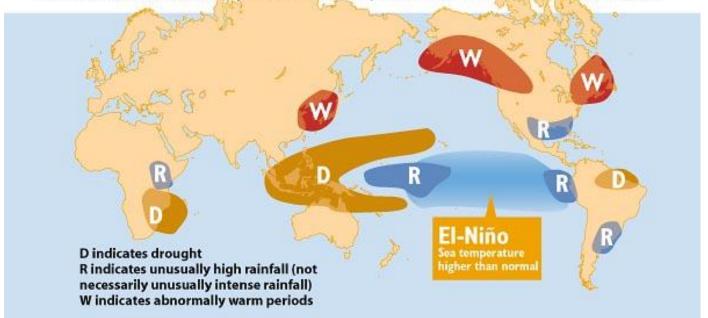
summer 2016.



Global El Nino Effect

Climatic impacts of warm El Niño events (October-March)

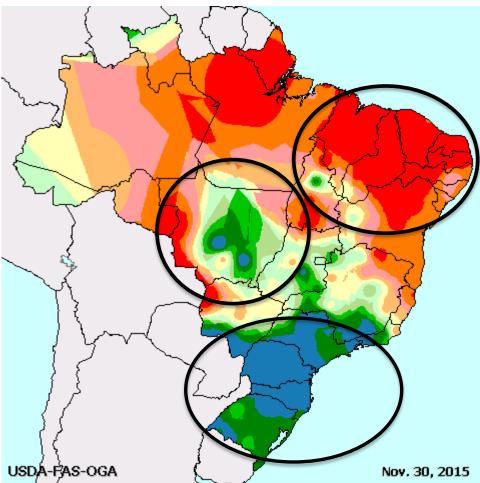
El Niño has different impacts in different parts of the world and at different times of the year. During the northern hemisphere winter, El Niño's expected impacts include drought in southern Africa, continuing drought in northern Australia and Indonesia, high rainfall in three continents and unseasonably warm weather in parts of North America and eastern China.



Above-normal rain S Brazil/Argentina. Dry S'east Australia, Indonesia, S. Africa.



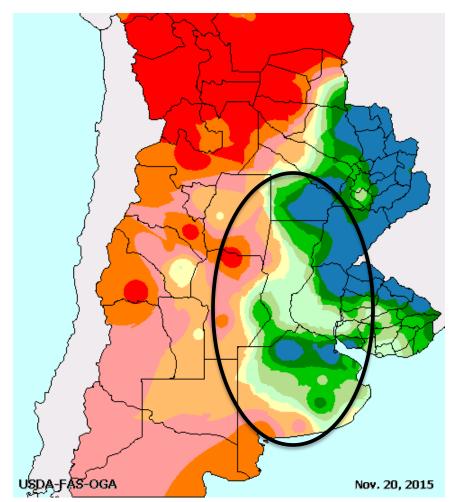
Brazil Soil Moisture



Wet south. Dry northeast. Mixed central (Mato Grosso).



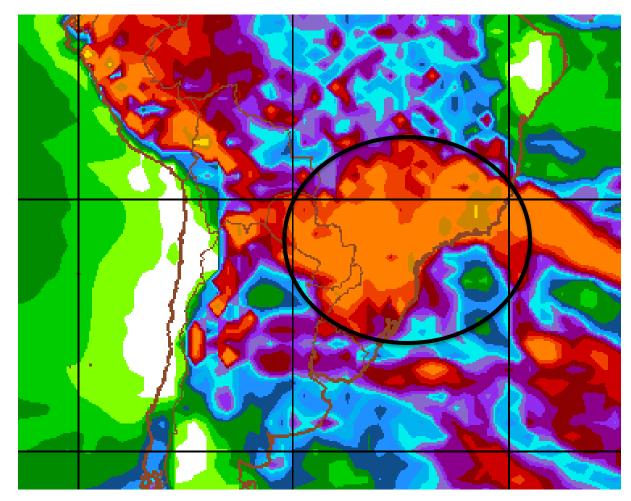
Argentina Soil Moisture



Adequate to surplus central and eastern crop areas.



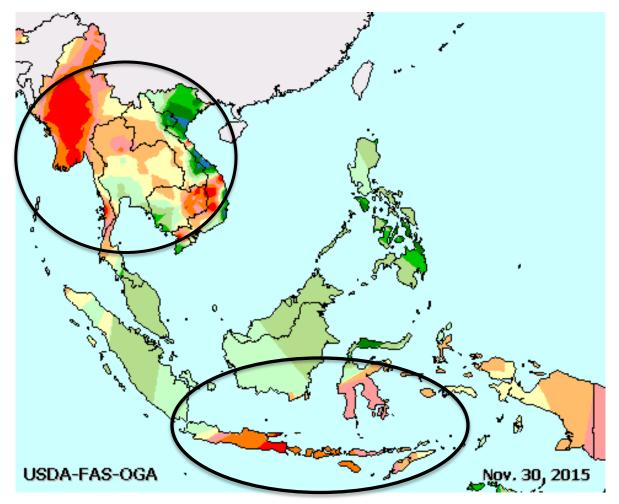
South America Forecast



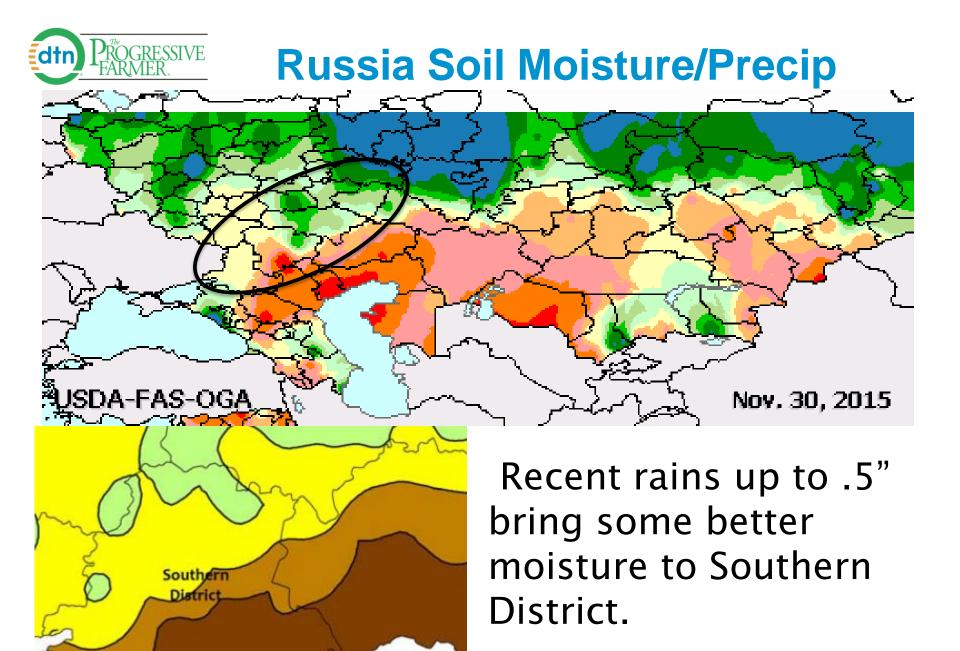
Heavy rain southern Brazil. Moderate central Brazil and Argentina.



Southeast Asia Soil Moisture

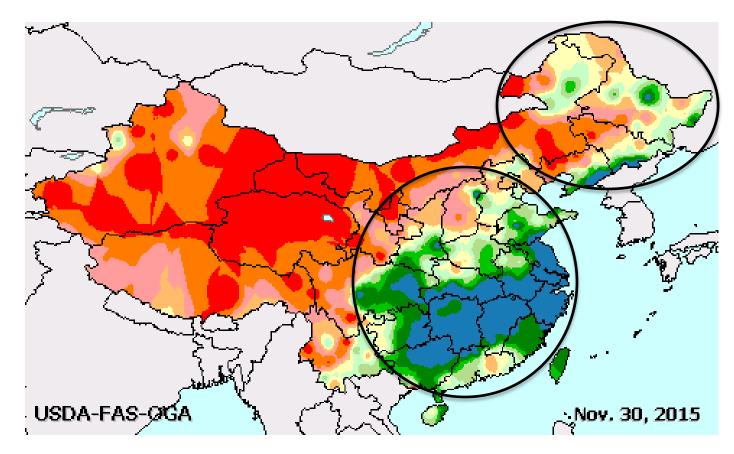


Quite a few dry areas—some concern for palm oil production.





China Soil Moisture



Adequate to surplus southeast. Mixed central. Some dryness northeast.



Thanks! As Usual--

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