What to Watch in 2017 – Corn Prices and Corn Acres are Down

2012 – Mega Drought (largest deviation from trend since ’88)

2013 – trend yields + big acres (economy recovers)

2015 – June rally, TS Bill, western cornbelt carries country

2014 – record yields, perfect weather

2016 – June rally, heat breaks for July, perfectly timed rains, large garden spot, wet August
What to Watch in 2017 – Corn Prices and Corn Acres are Down

**Corn and Soybean Planted Acreage - United States**

- Any stress in July weather corn prices will respond quickly.
- Must watch August rain for beans

Source: [http://farmdocdaily.illinois.edu/](http://farmdocdaily.illinois.edu/)

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**Change in corn planted area from 2016 to 2017 (1,000 acres)**
**USDA farm production regions**

US Corn Yield 1948-2016 (USDA NASS)

y = 1.9180x - 3,700.2137

July - It's all about July for corn
The Good Years...
2012 – Drought Monitor (July 3)

What causes this?
So what types of weather patterns shut off the rain and bring in the heat?

Flow of the Jet Stream
- Trough
- Ridge
- Block storm systems
  - Move heat north

What to Watch in 2017 – Record Soybean Acres + Record 2016 US Yields + Record 2017 South American Crop

- Soybean Acres = 89.5 Million (up 7% on 2016)
- Kansas +950,000
- North Dakota +850,000
- Minnesota +700,000

Figure 1. Change in Planted Soybean Acres from 2011 to 2016

Source: National Agricultural Statistical Service, USDA
What to Watch in 2017 – Record Soybean Acres + Record 2016 US Yields + Record 2017 South American Crop

US Soybean Yield 1948-2016 (USDA NASS)

y = 0.3912x - 743.82

Total Accumulation from August 2016

http://water.weather.gov/precip/
What to Watch in 2017 – Record Soybean Acres + Record 2016 US Yields + Record 2017 South American Crop

- 85+% Harvested
- Estimates = 110+ Million Metric Tons
- Weak La Niña, No heat stress, timely rains

Source: [http://www.tropicaltidbits.com/analysis/models/](http://www.tropicaltidbits.com/analysis/models/)

Source: [http://www.ospo.noaa.gov/Products/ocean/sst/anomaly/](http://www.ospo.noaa.gov/Products/ocean/sst/anomaly/)
Weak/Moderate Strength El Niño by Summer

Correlation of July Temperatures and Precipitation Rate with El Niño (MEI)

***Very weak correlation. Secondary predictor of July weather at best.

Source: https://www.esrl.noaa.gov/psd/data/correlation/

Source: [http://droughtmonitor.unl.edu/](http://droughtmonitor.unl.edu/)


Source: [http://droughtmonitor.unl.edu/](http://droughtmonitor.unl.edu/)

U.S. Drought Monitor

April 11, 2017
(Released Thursday, Apr. 13, 2017)
Valid 8 a.m. EDT

Source: http://droughtmonitor.unl.edu/

90 Trillion Gallons since Oct 2016

Distribution of Landfalling Atmospheric Rivers on the U.S. West Coast
(From 1 Oct 2016 to 31 March 2017)

- 45 atmospheric rivers have made landfall on the West Coast thus far during the 2017 water year (1 Oct. – 31 March 2017)
- This is much greater than normal
- 1/3 of the landfalling ARs have been "strong" or "extreme"

By P.H. Keppl, B. Kashef, C. Hecht, J. Kilemey
Planting Progress Through Week #15


Source: www.tropicaltidbits.com/analysis/models/

GFS Total Accumulated Precipitation (inches) from 08z19Apr2017 to 12z24Apr2017
Init: 08z Apr 19 2017  Forecast Hour: [126]  valid at 12z Mon, Apr 24 2017

Source: www.tropicaltidbits.com/analysis/models/

GFS 2-meter Air Temperature (°F)
Init: 08z Apr 19 2017  Forecast Hour: [102]  valid at 12z Sun, Apr 23 2017

Source: www.tropicaltidbits.com/analysis/models/

Day of the Last Spring Freeze
from the 1981–2010 U.S. Climate Normals

Source: NOAA

What to Watch in 2017 – Elevated Severe Weather Threat

US Tornado Risk 2017:
Above average
April 2017 = +0.42 sd
March 2017 = +0.04 sd
February 2017 = +0.04 sd
January 2017 = +0.03 sd
Dec 2016 Forecast = +0.325 sd
Nov 2016 Forecast = +0.47 sd

2017 Compared to Average So Far
Tornadoes = 151%
Hail = 156%
Severe Winds = 203%

Preliminary Severe Weather Report Database (ROUGH LOG)
NOAA/Storm Prediction Center Norman, Oklahoma
Severe Weather Reports
January 01, 2017 - April 12, 2017
Updated: Wednesday, April 12, 2017 11:12 CT

Source: http://www.spc.noaa.gov/climo/online/monthly/newm.html
Look for Radar Reflectivity Values greater than 60 dBZ.

What to Watch in 2017 – Spring Forecast

Source: [https://www.usanpn.org/data/spring](https://www.usanpn.org/data/spring)
What to Watch in 2017 – Spring Forecast

Source: https://www.nohrsc.noaa.gov/snowfall_v2/

What to Watch in 2017 – Spring Forecast

Source: https://www.nohrsc.noaa.gov/nsa/
What to Watch in 2017 – Spring Forecast

Source: NOAA
What to Watch in 2017 – Summer Forecast

Source: IRI and NMME

Agrible, Inc June-August Temperature Pattern Forecast

Weak – Moderate Strength El Niño
FREE SOFTWARE – Just enter “ERIC” in the Promo Code and get a free 1-year subscription to our expansive product line

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