

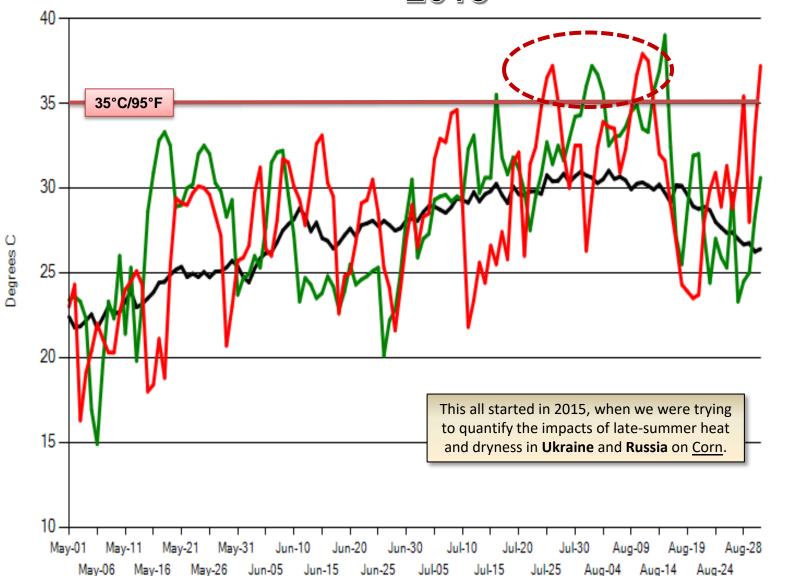
5 - UKRAINE - NORTH CENTRAL

Extreme Maximum Temperatures



2015

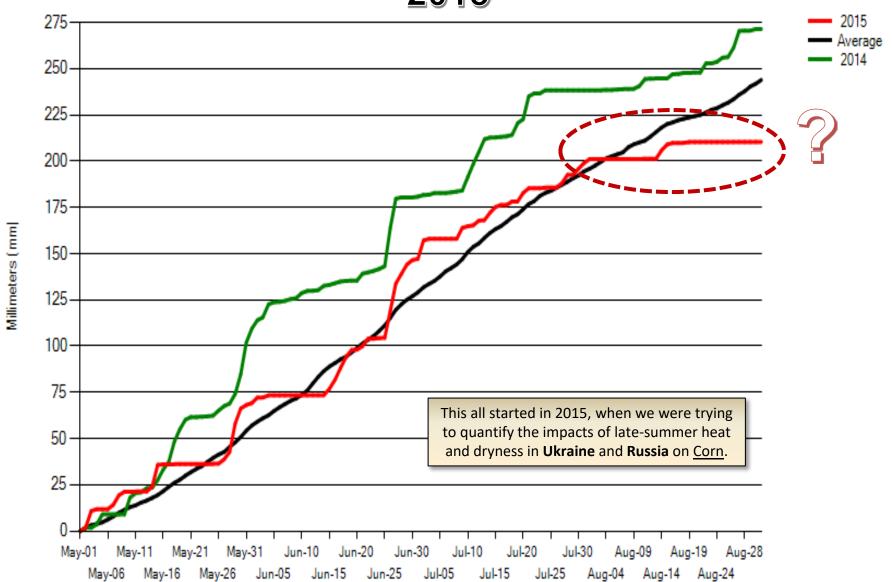
Average2014

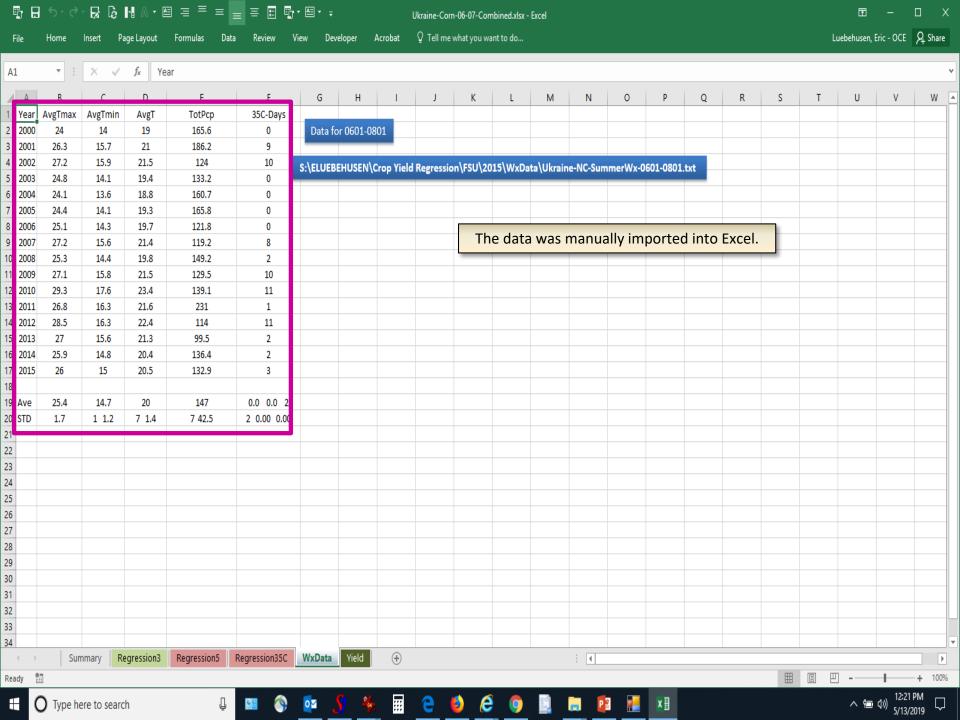


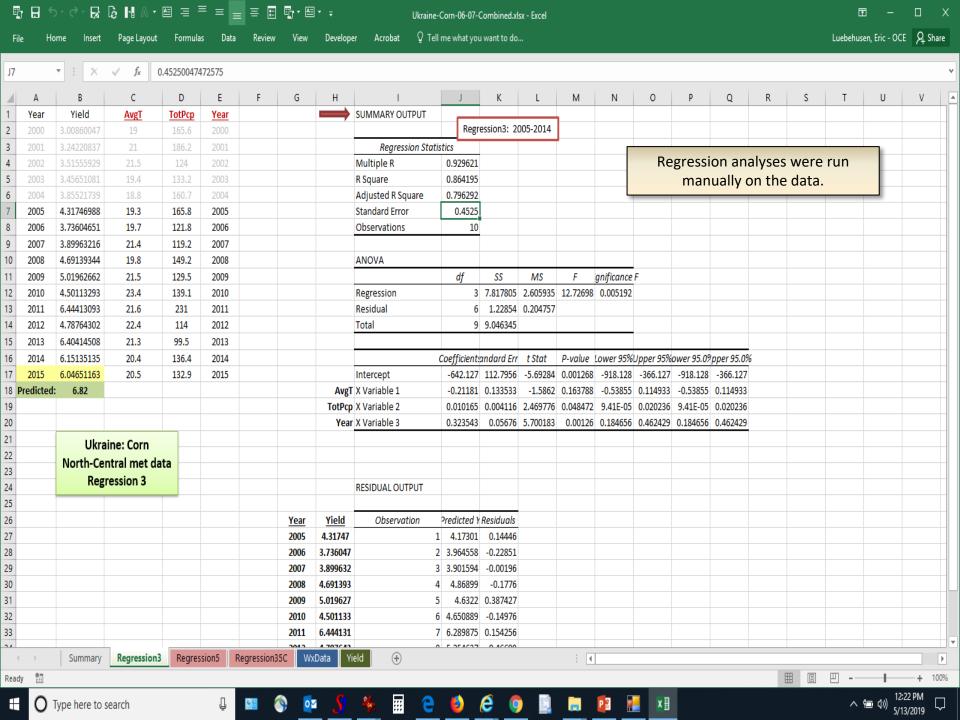
5 - UKRAINE - NORTH CENTRAL

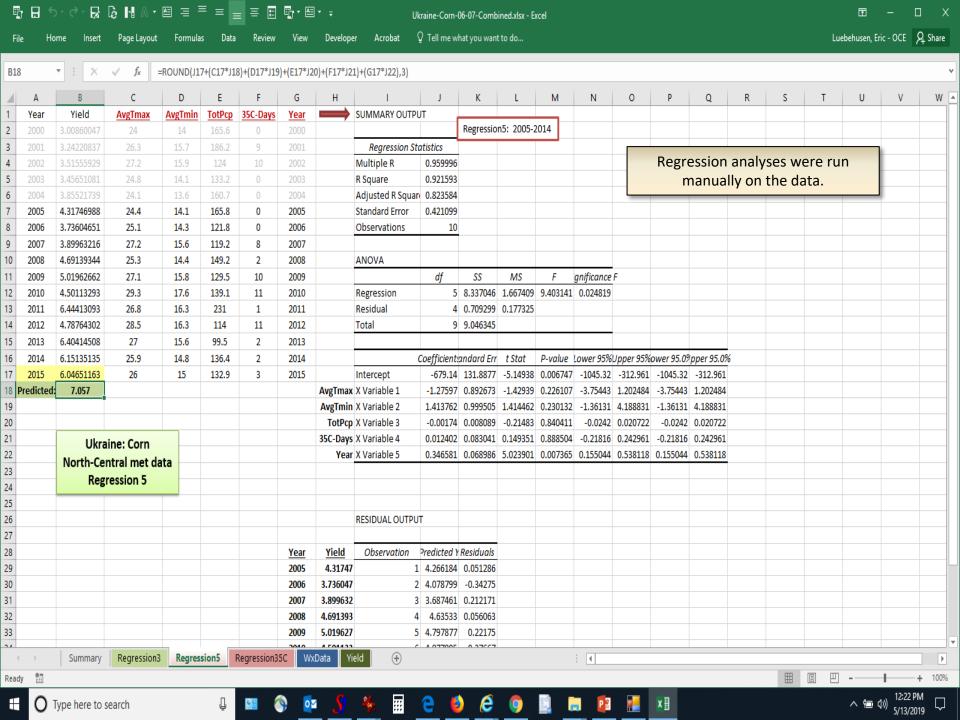
Cumulative Precipitation

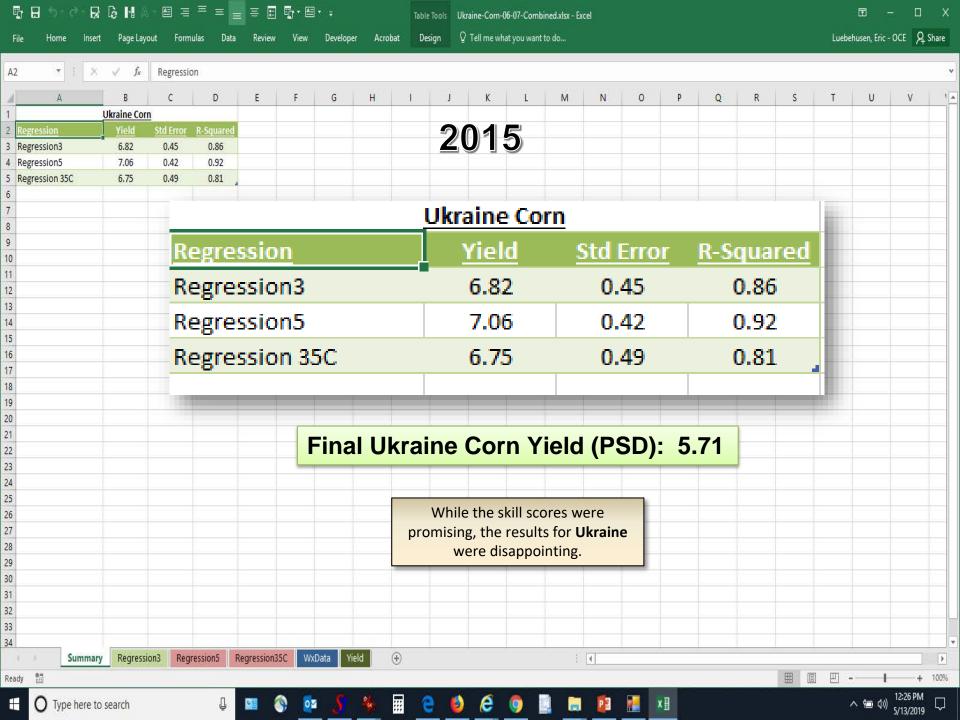


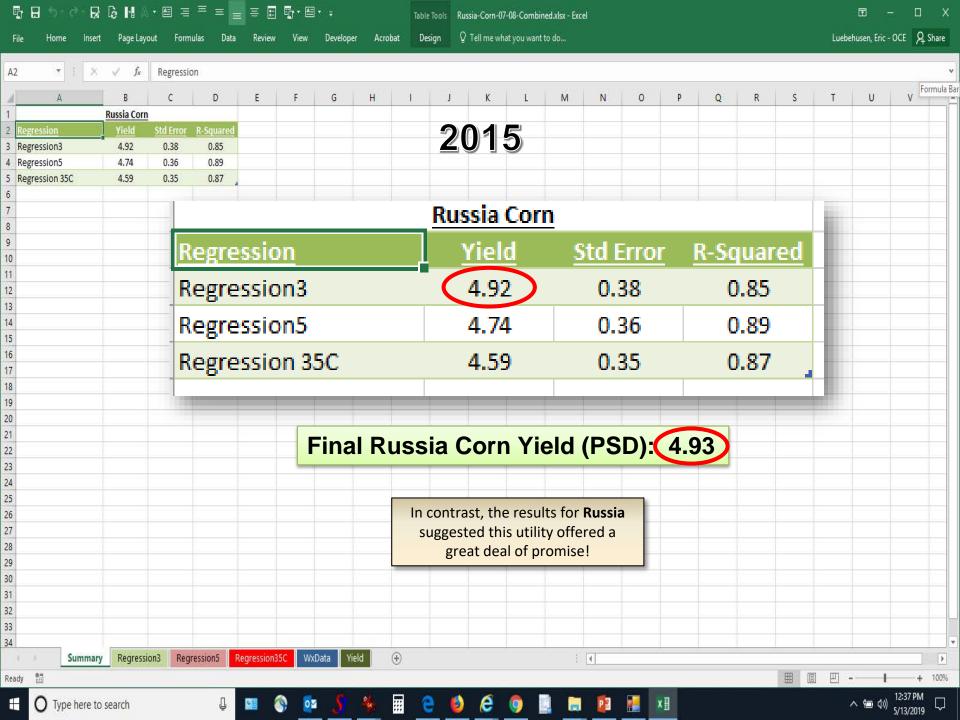






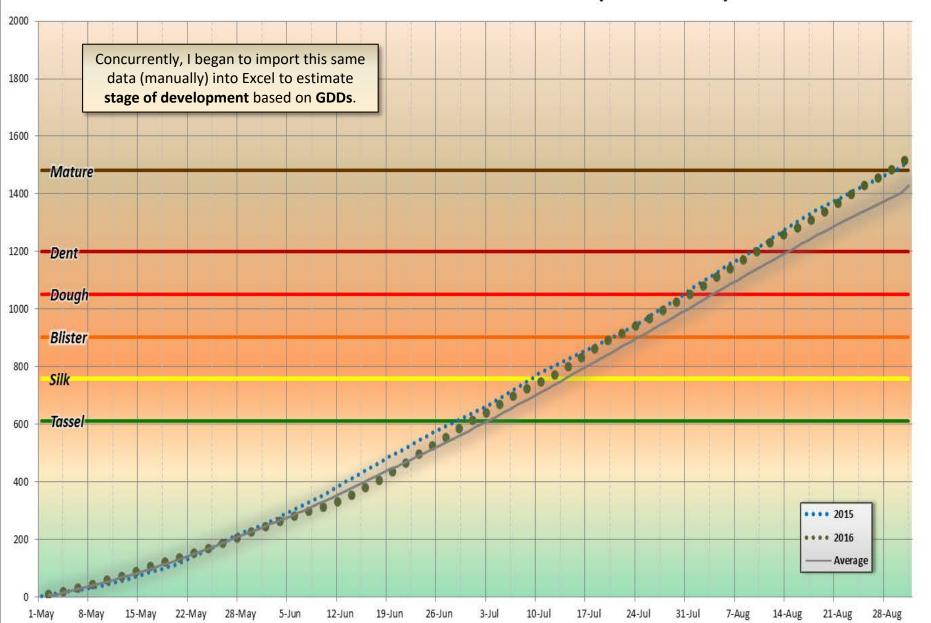


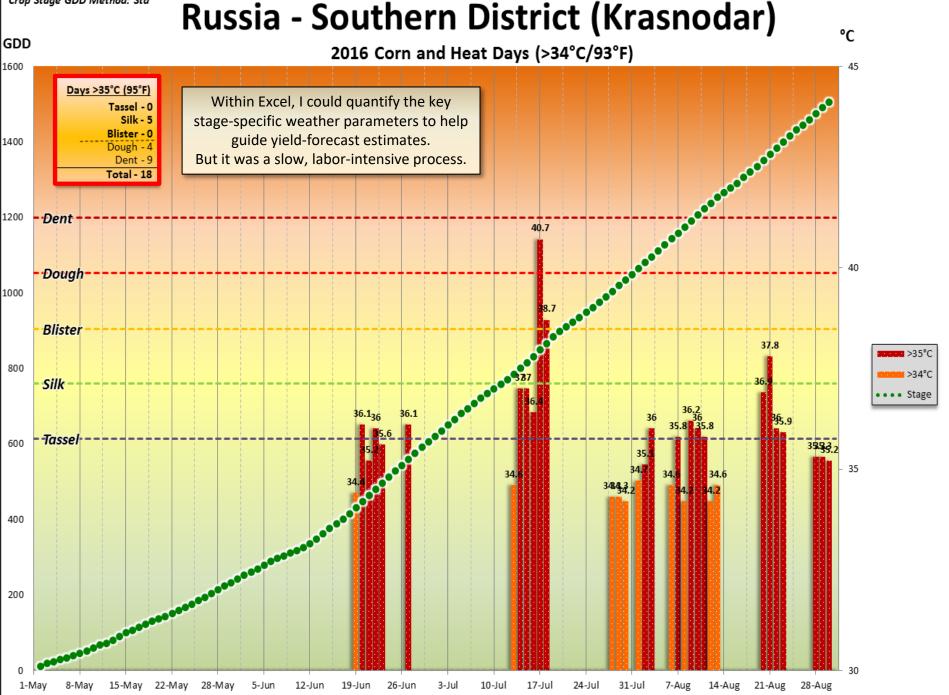


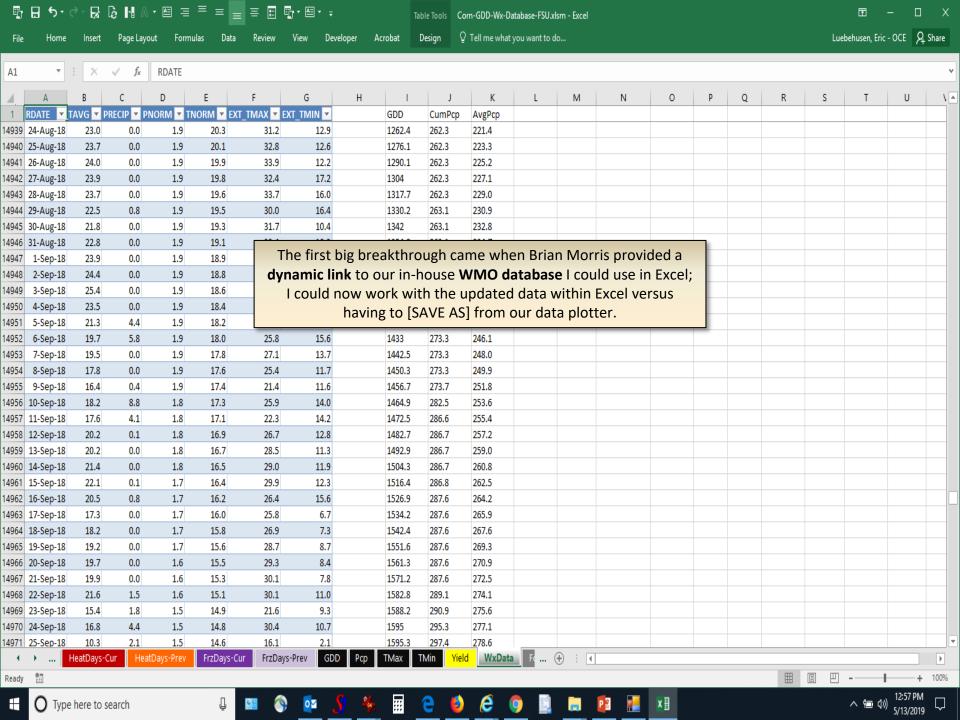


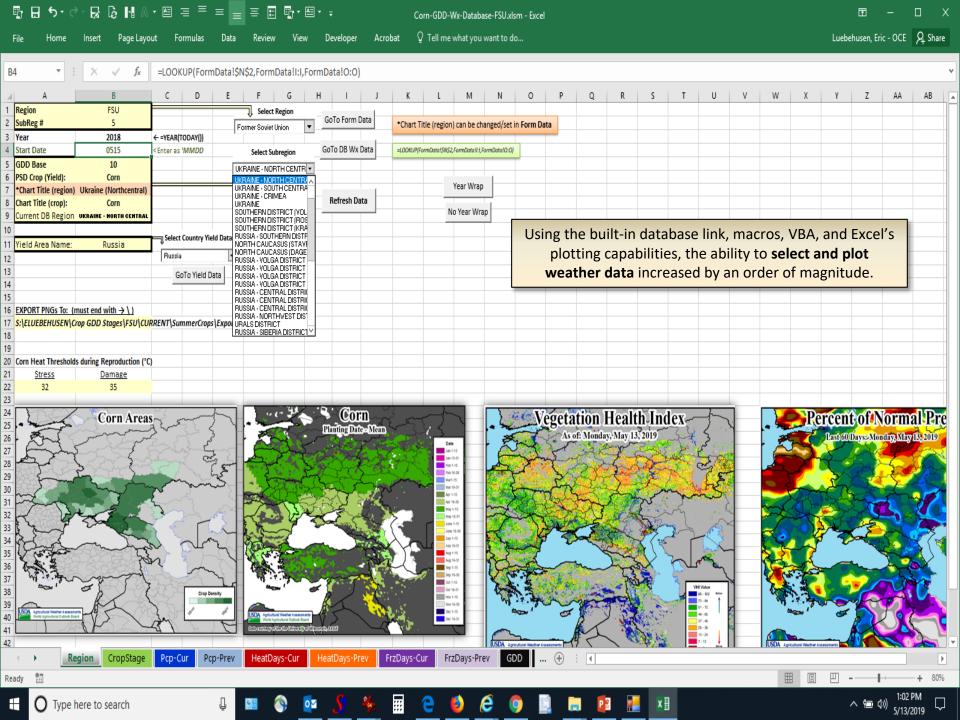
GDD

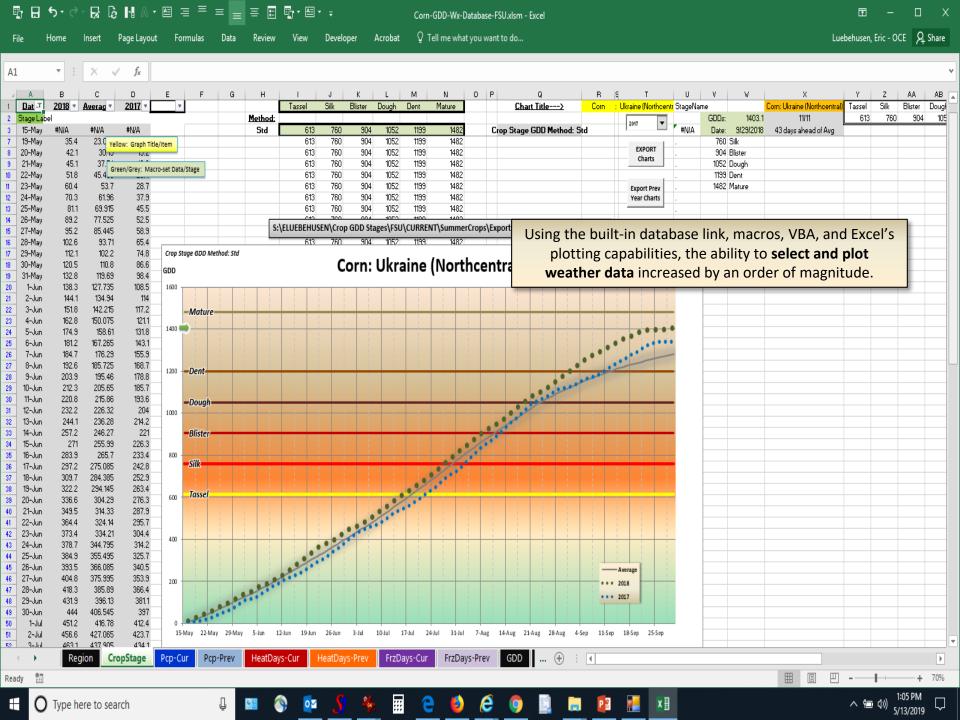
Corn: Russia - Southern District (Krasnodar)

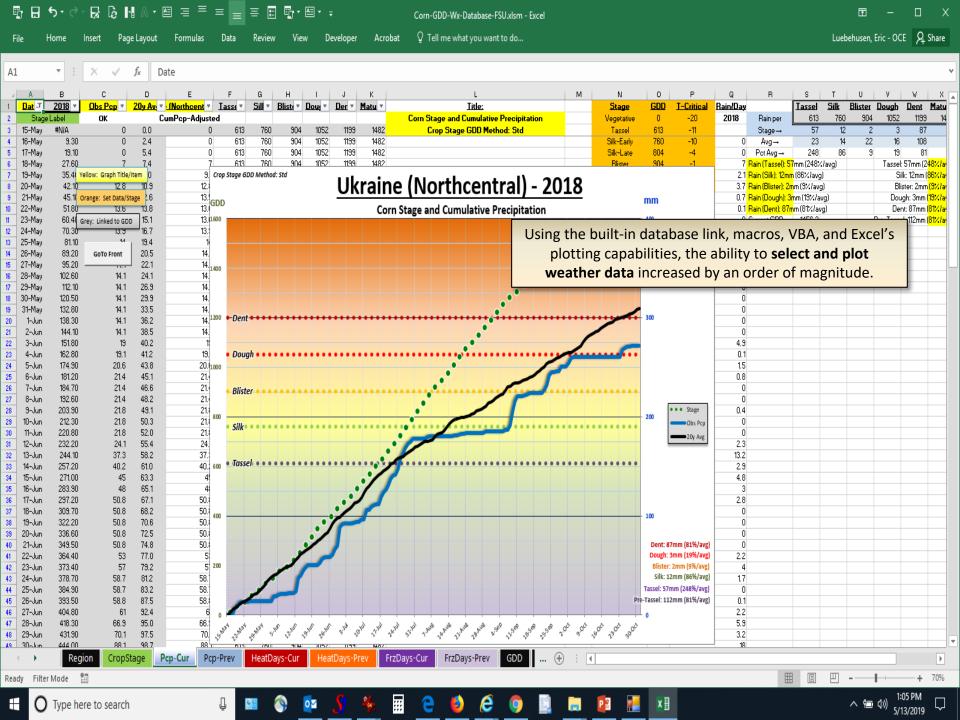


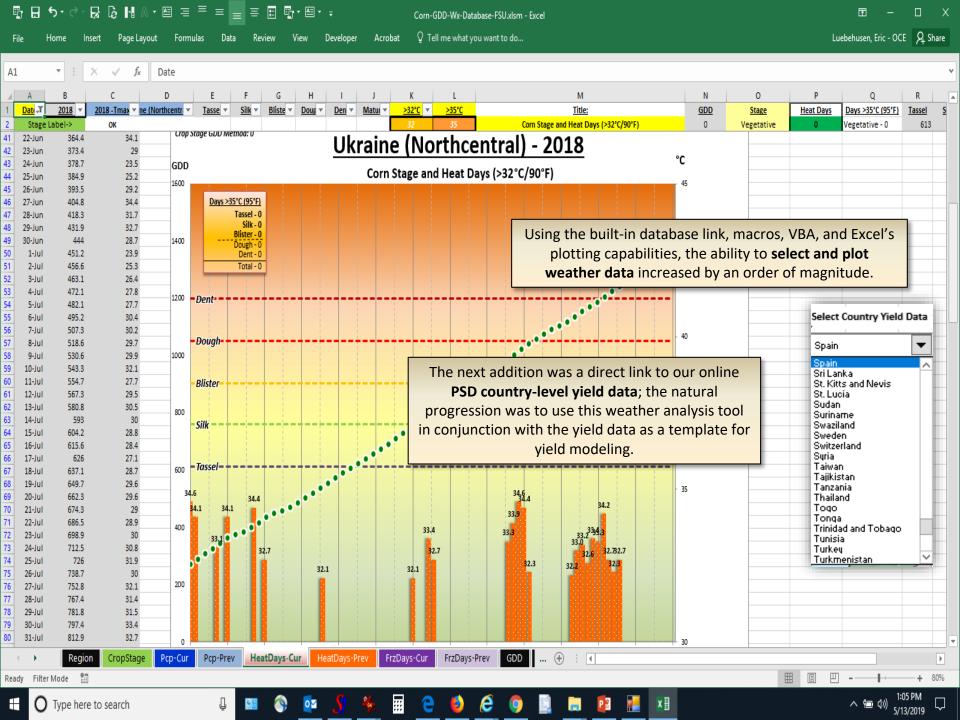


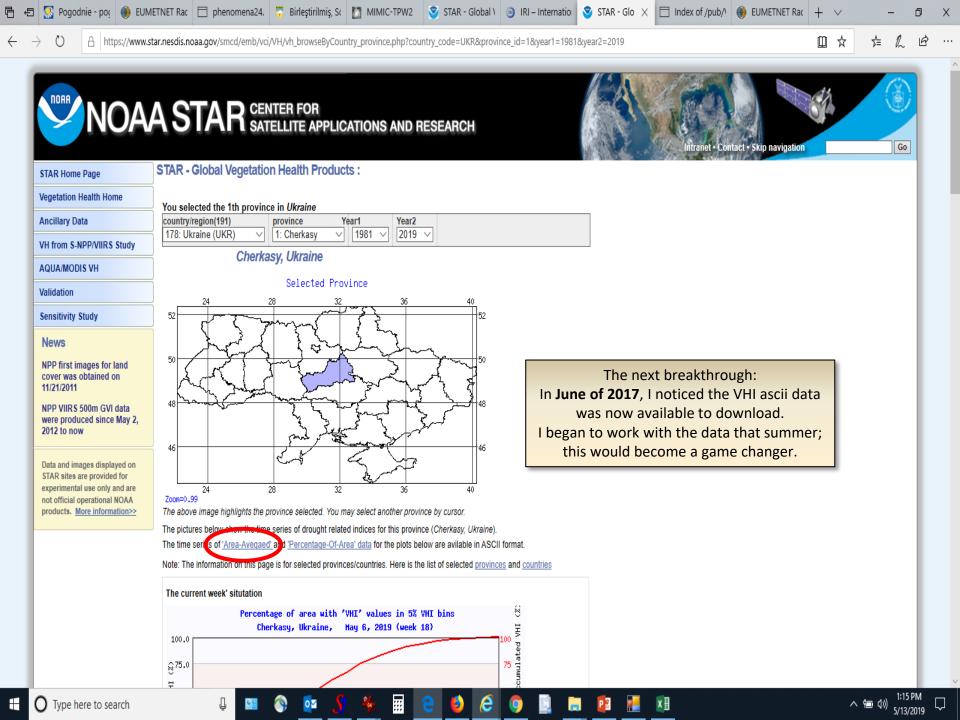






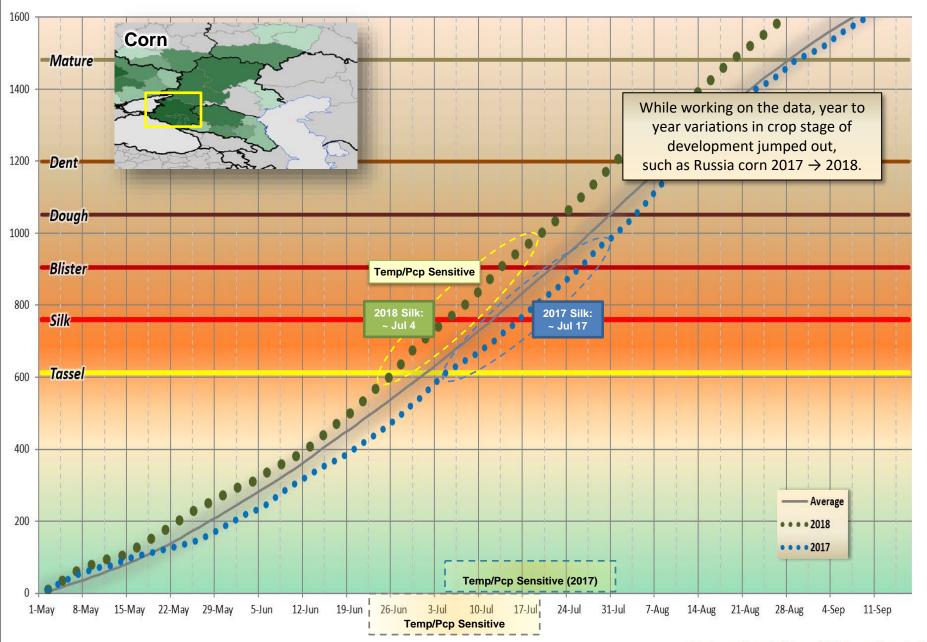


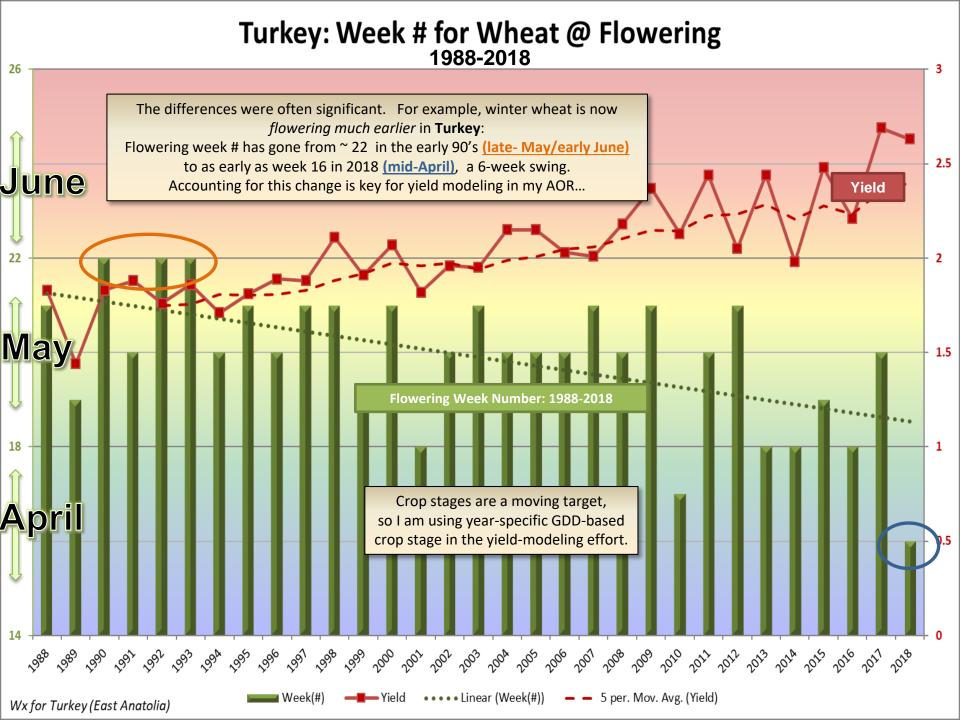




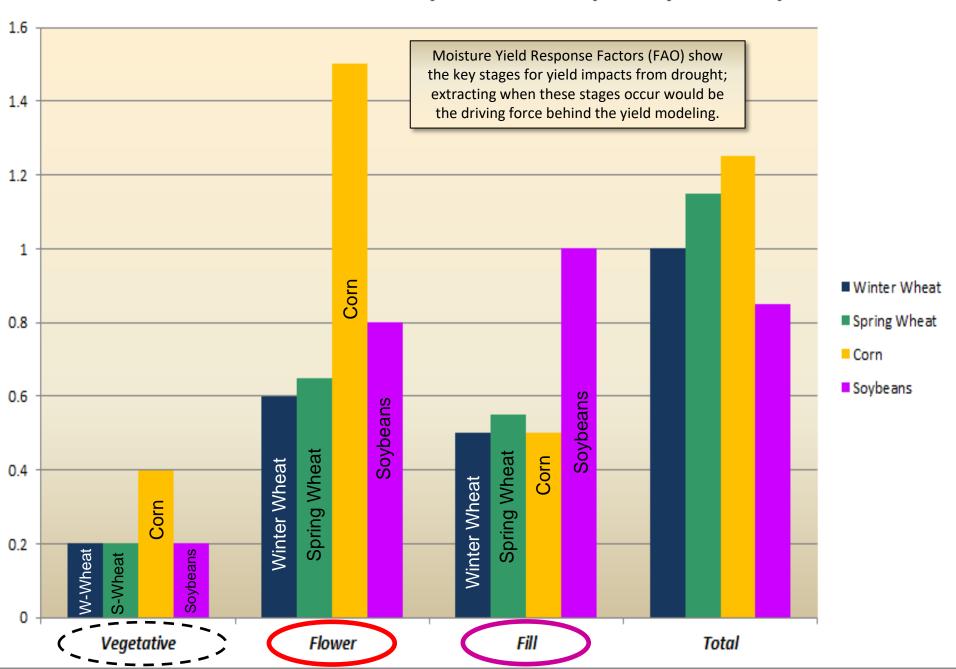
GDD

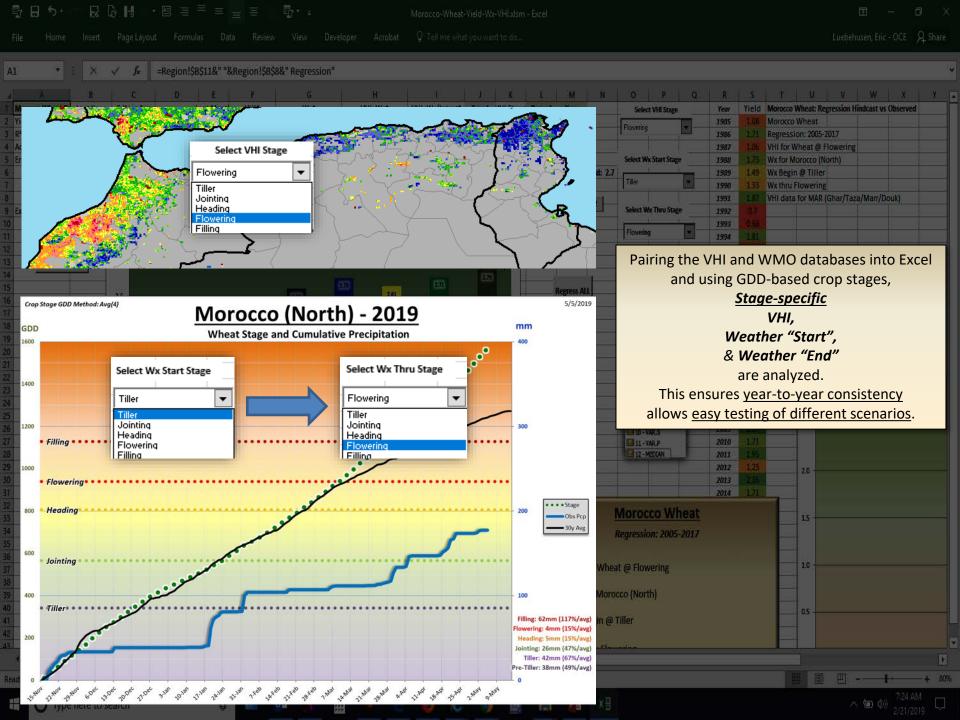
Corn: Russia (Southern - Krasnodar)

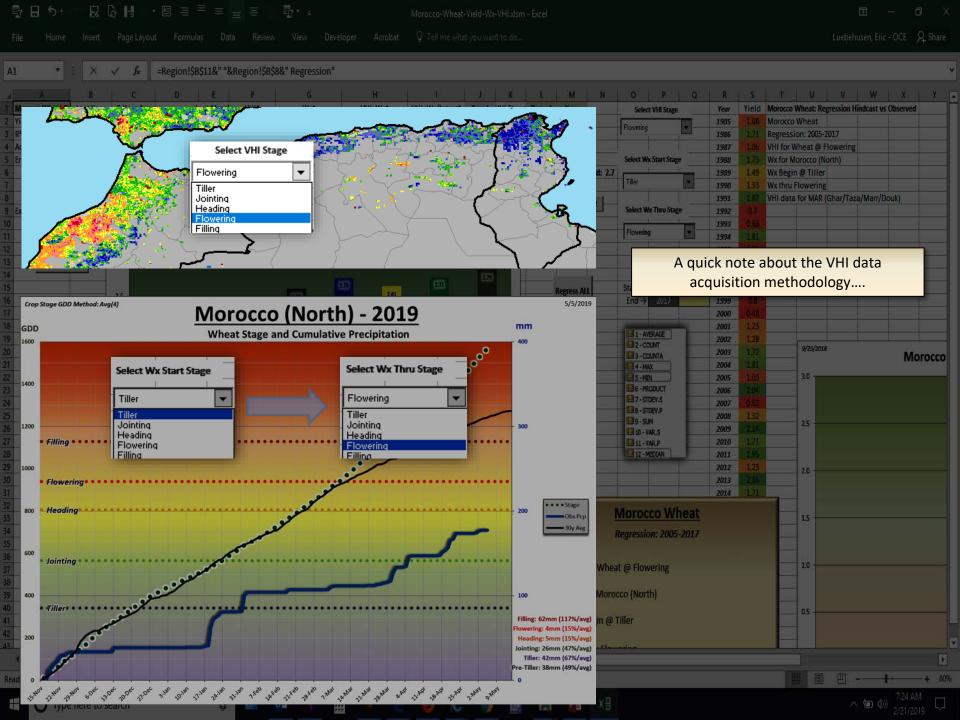


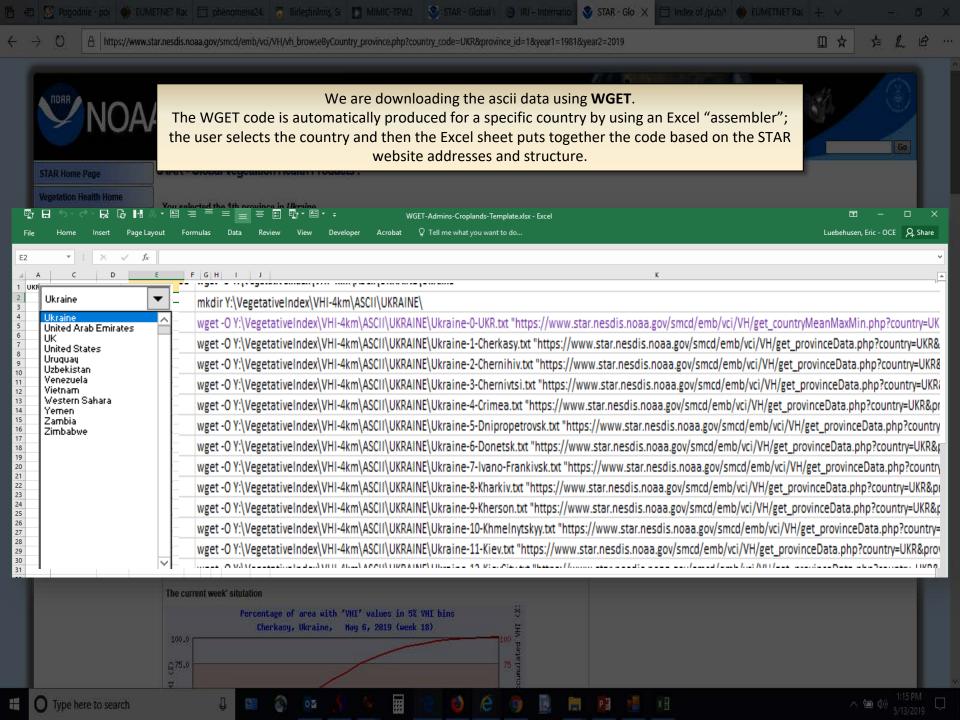


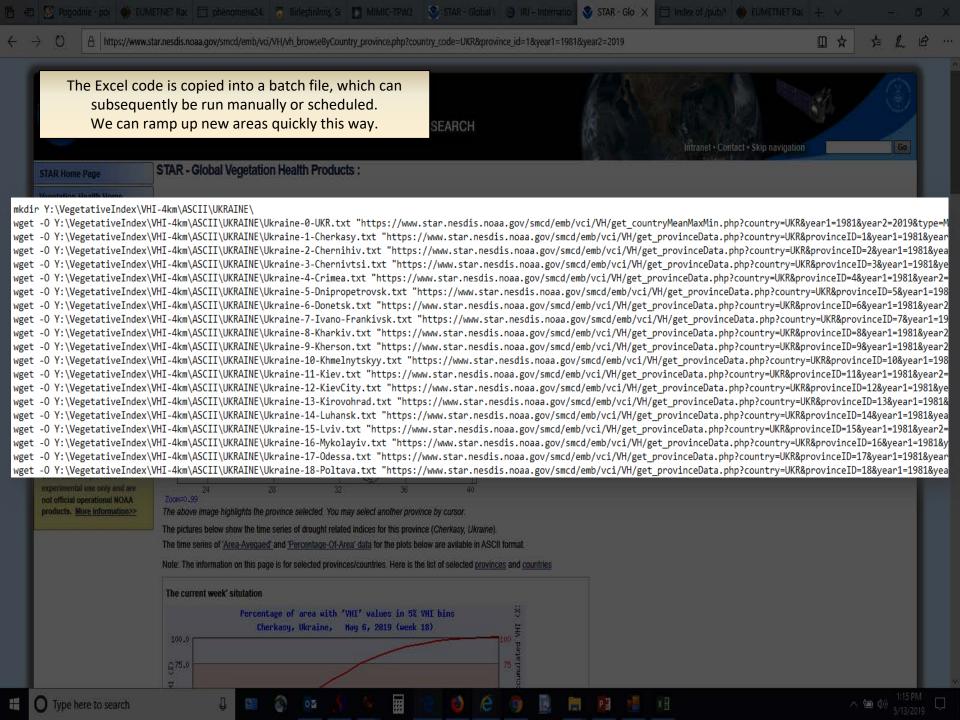
Water Deficit Yield Response Factors (ETactual/ETmeasured)

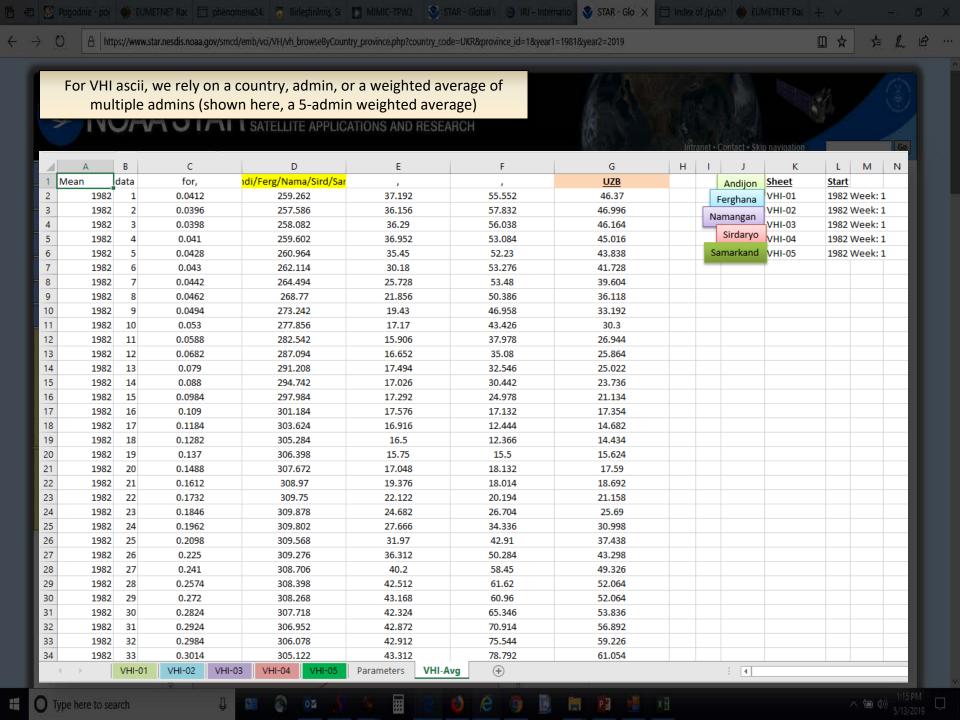


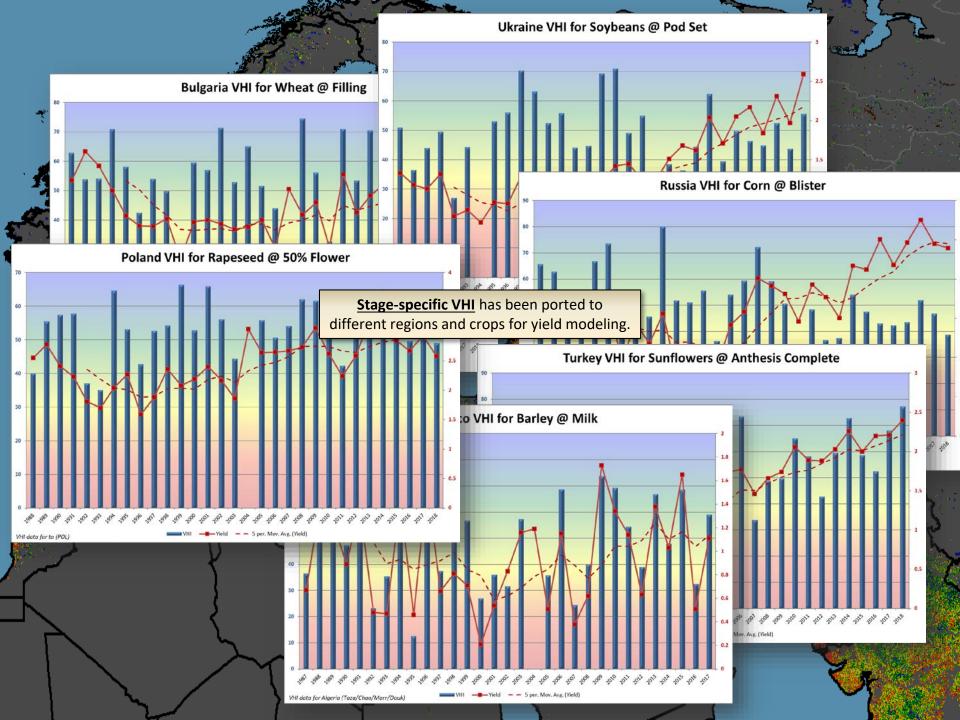


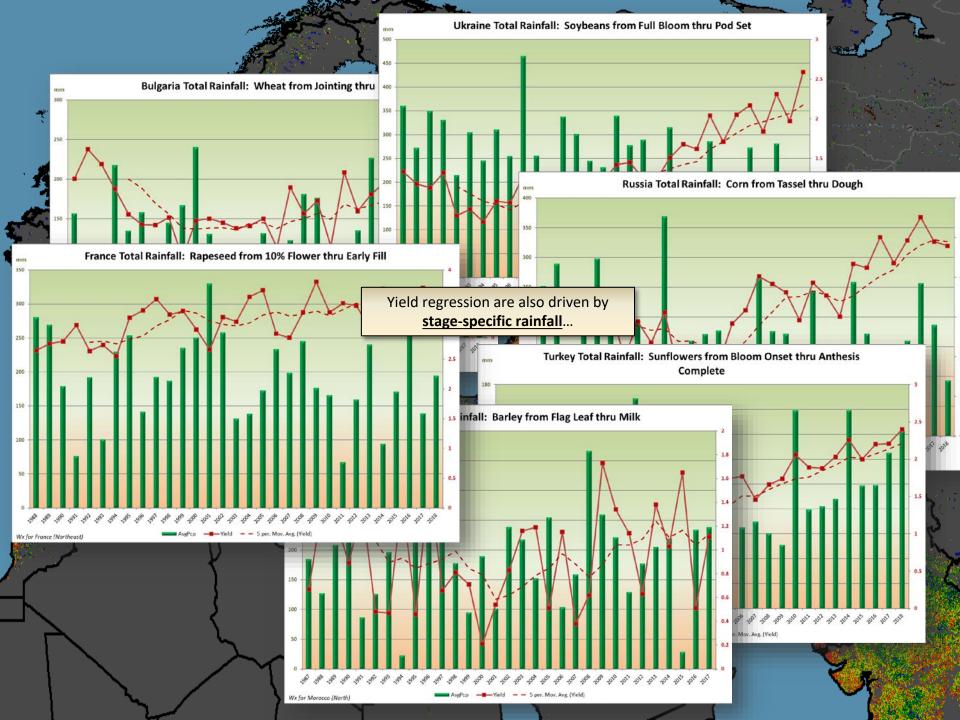


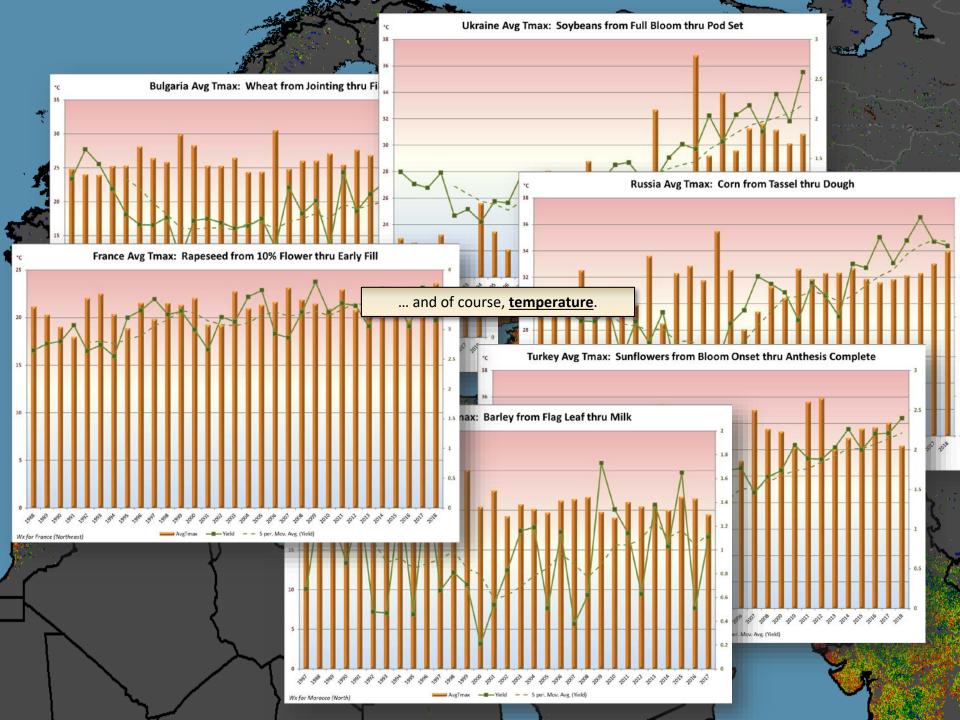


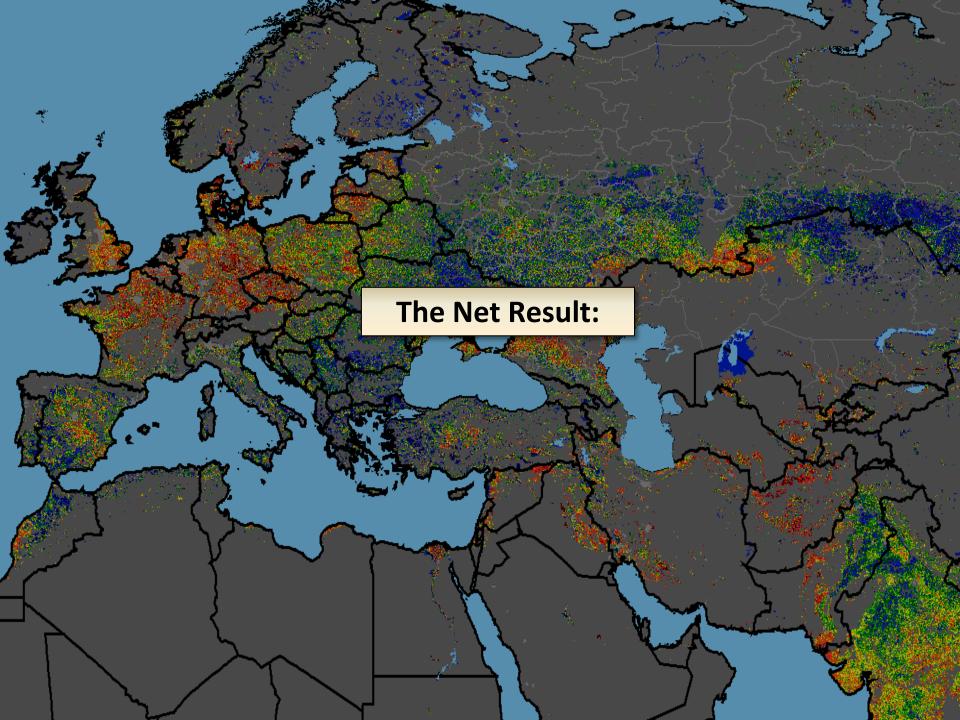


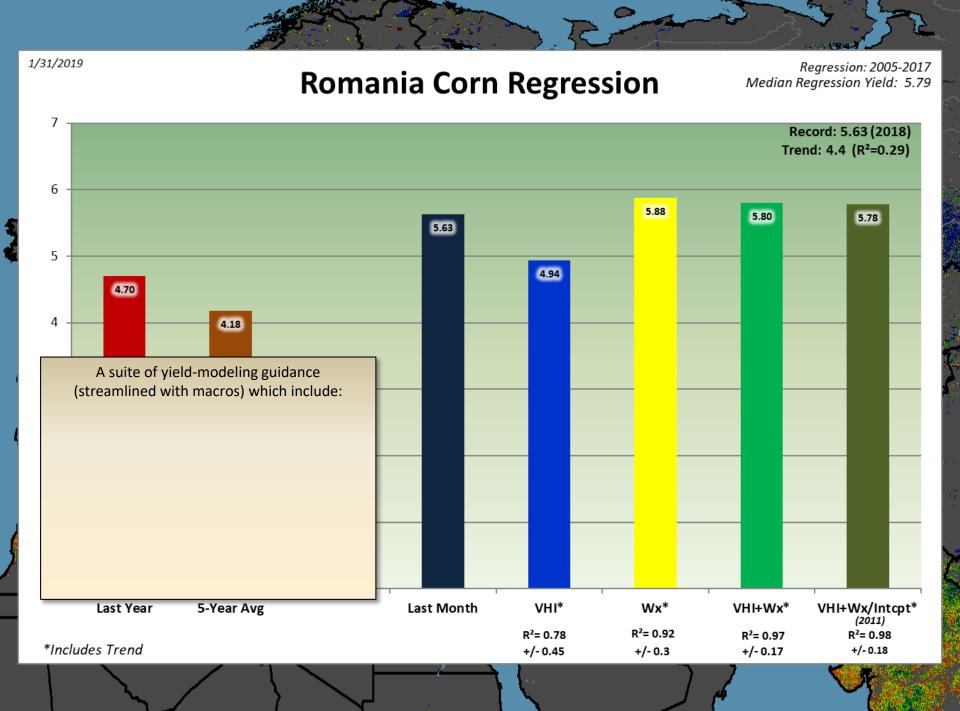








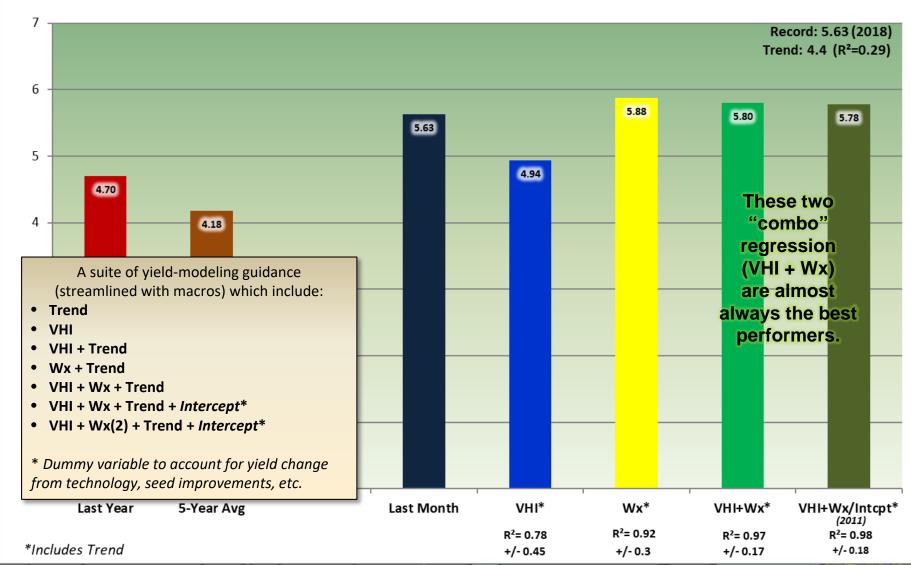


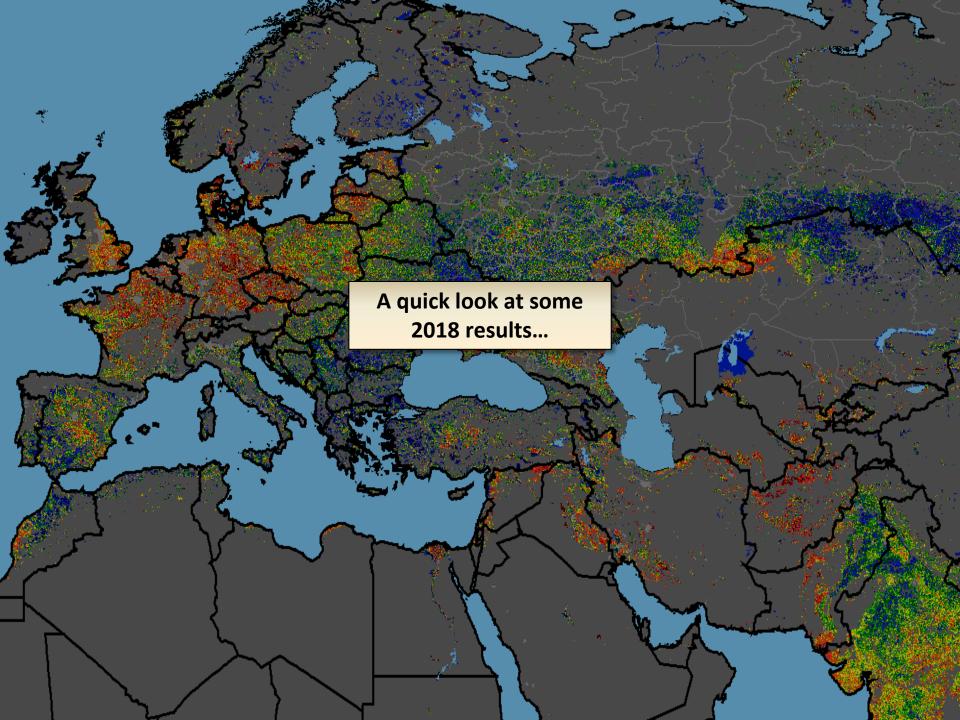


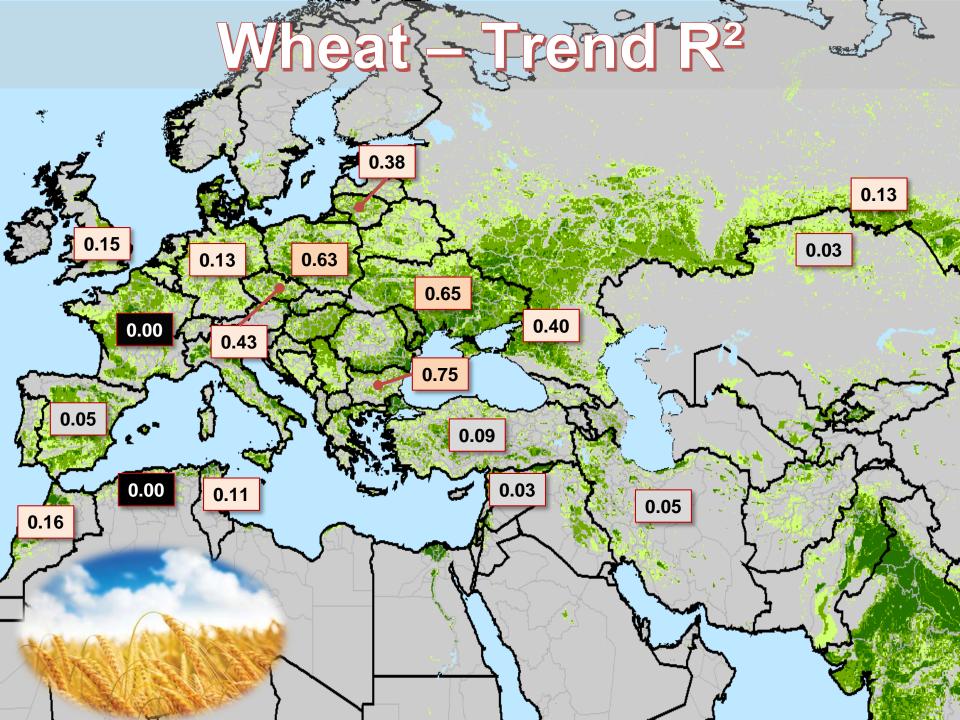
1/31/2019

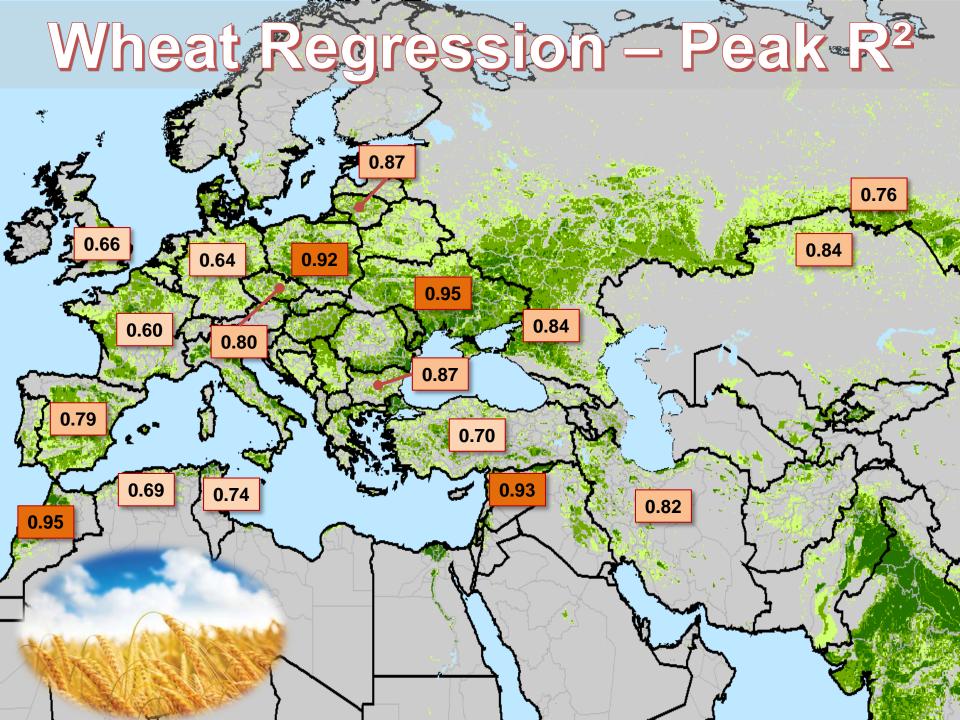
Romania Corn Regression

Regression: 2005-2017 Median Regression Yield: 5.79

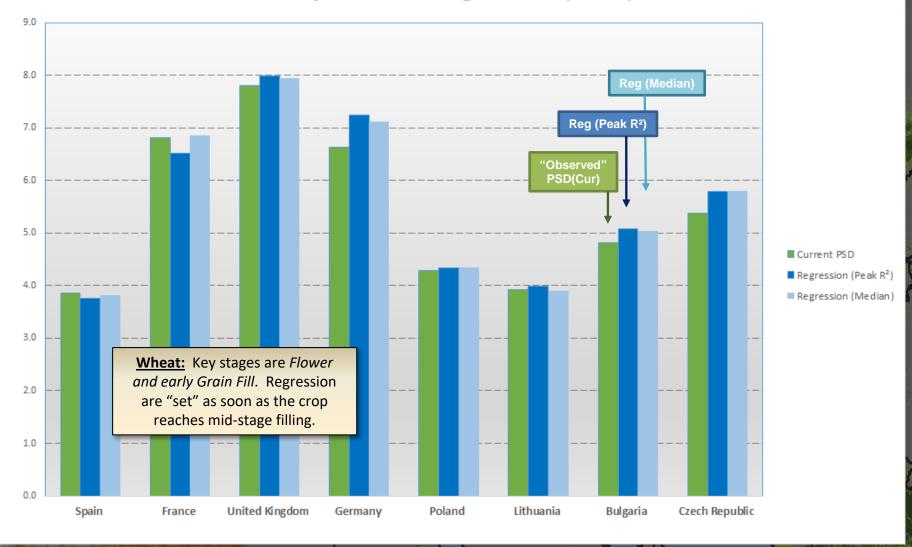


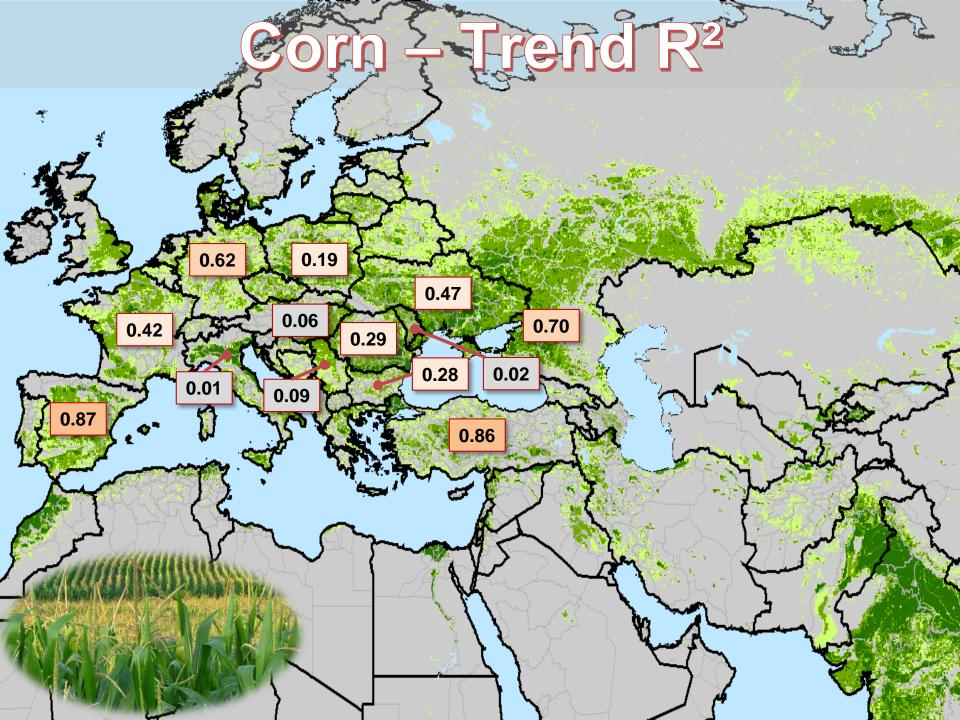


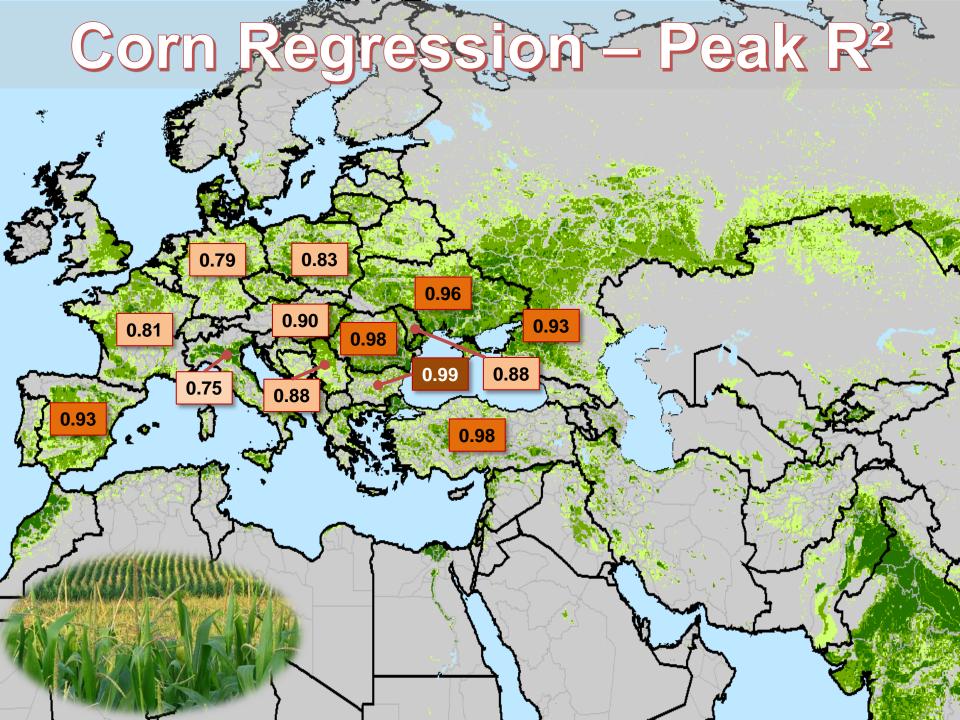




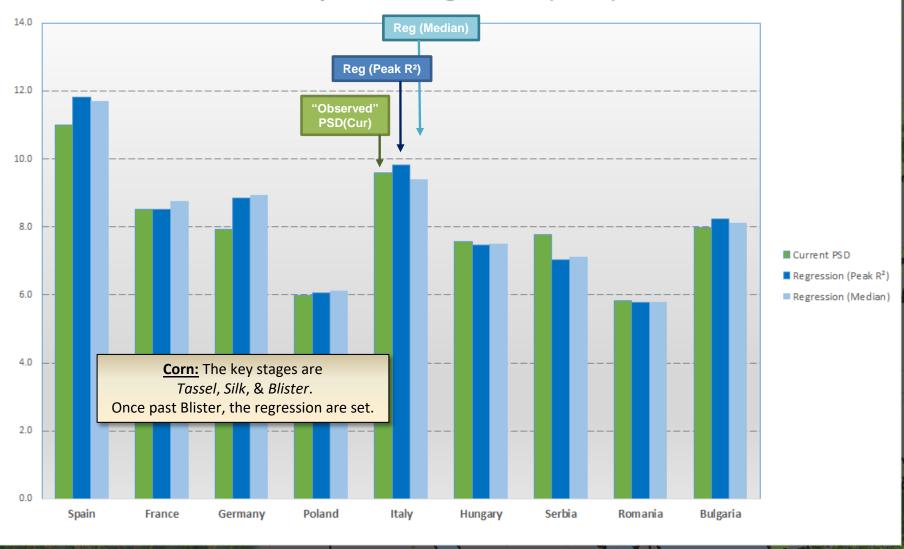
Europe Wheat Regression (2018)

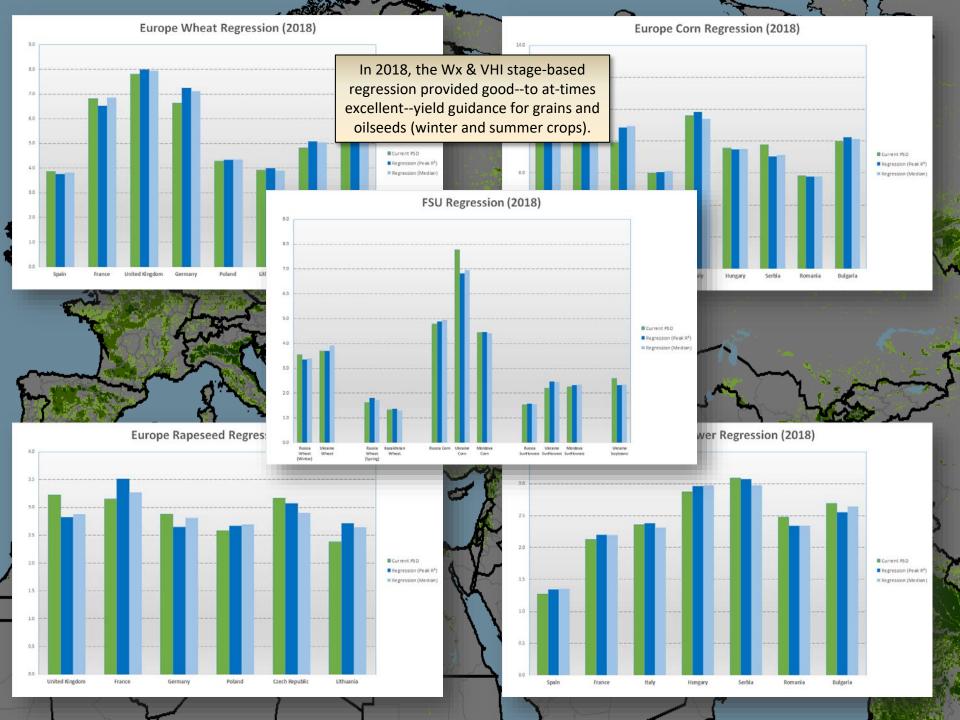


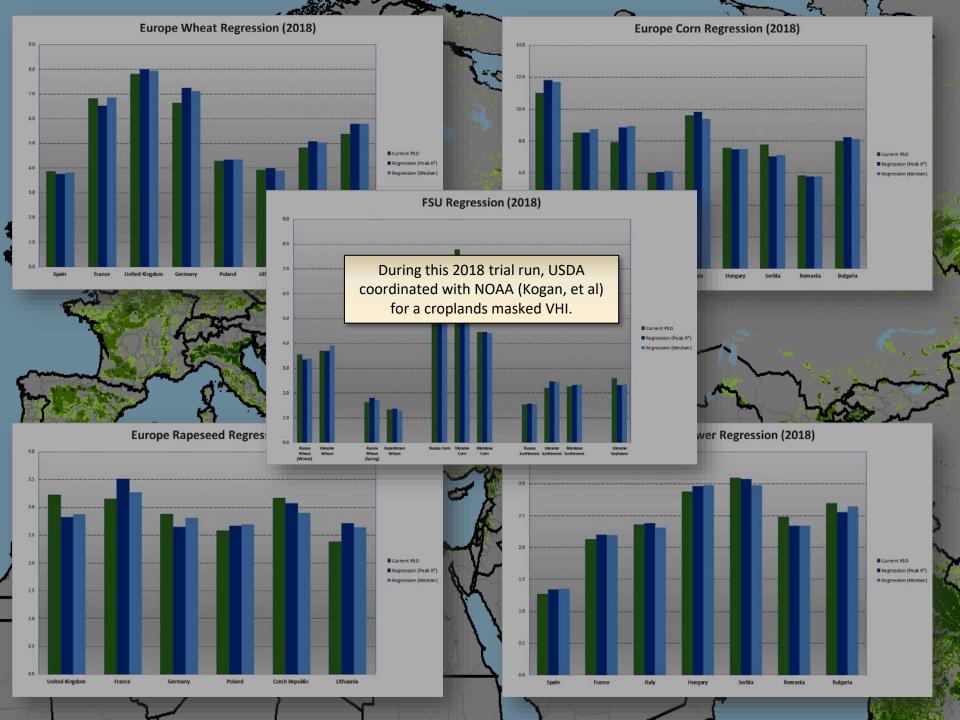


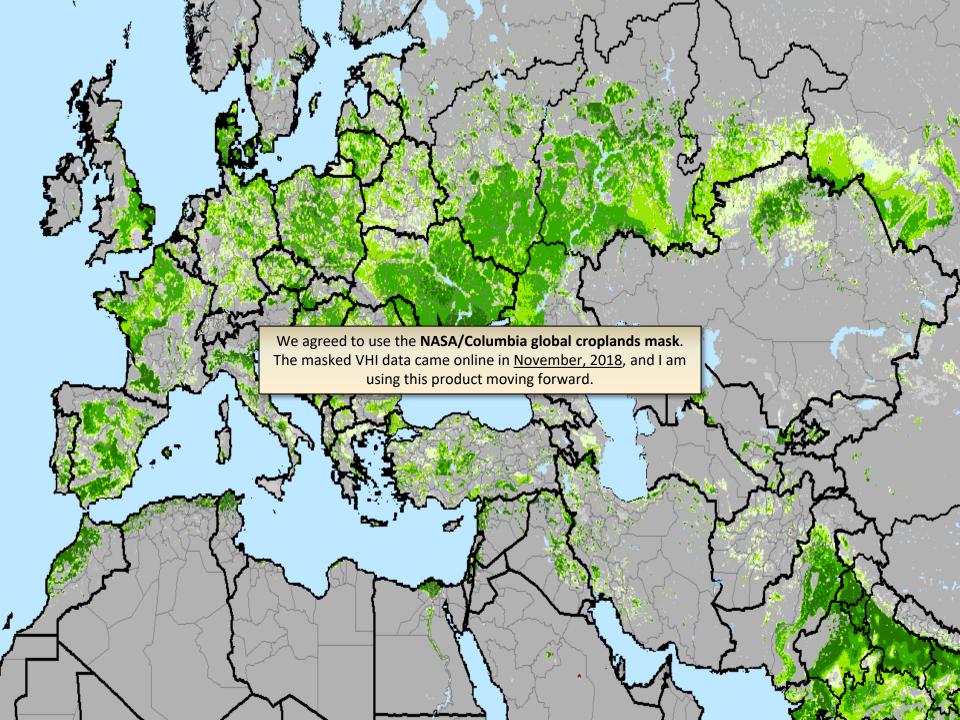


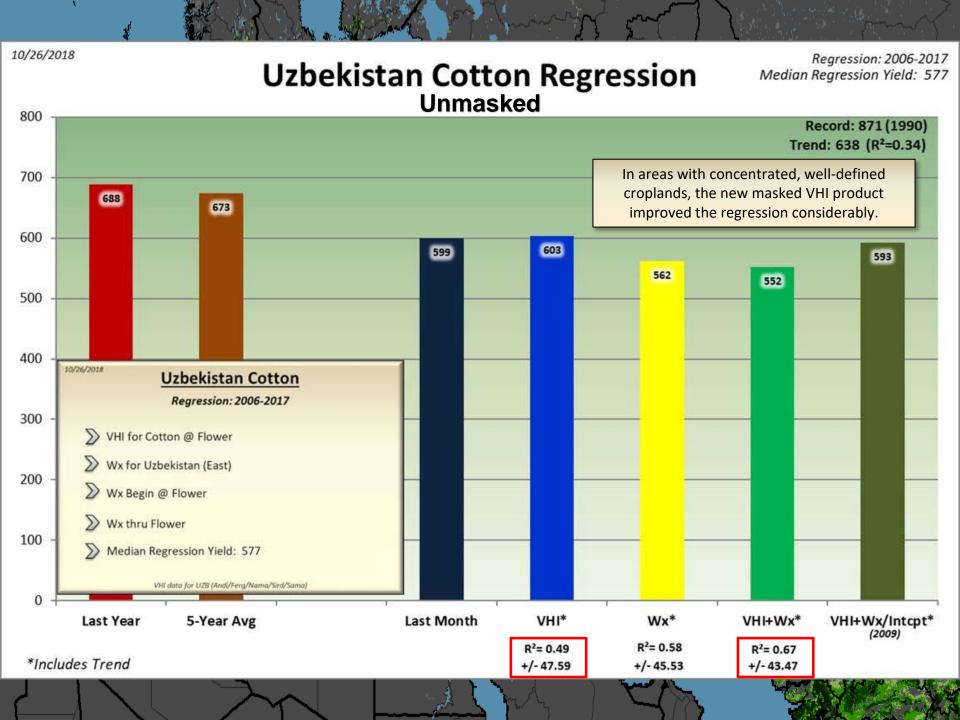
Europe Corn Regression (2018)

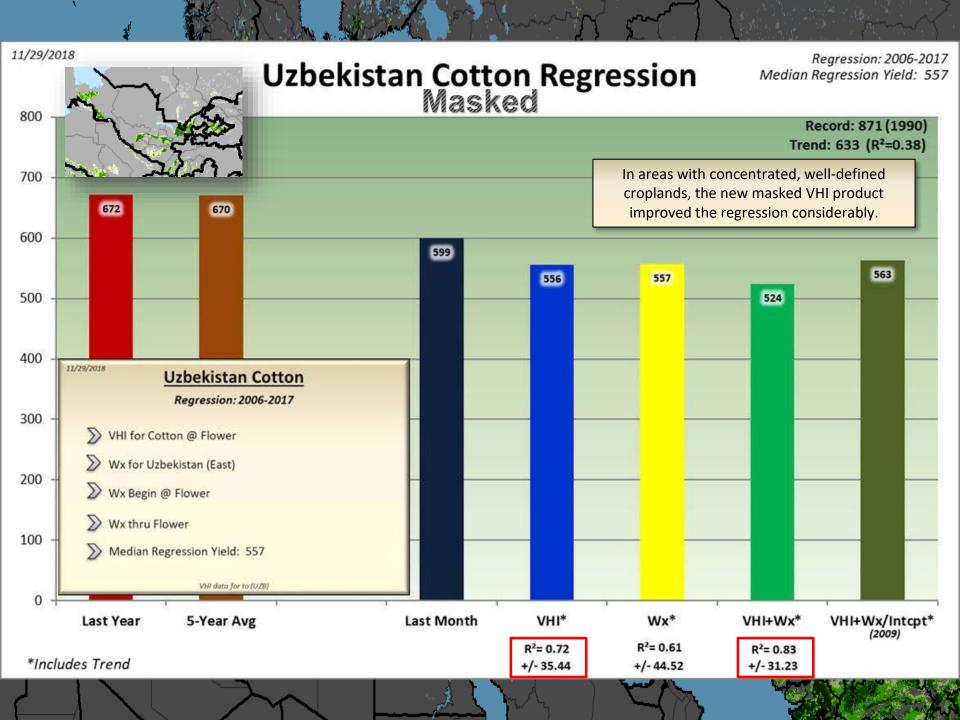


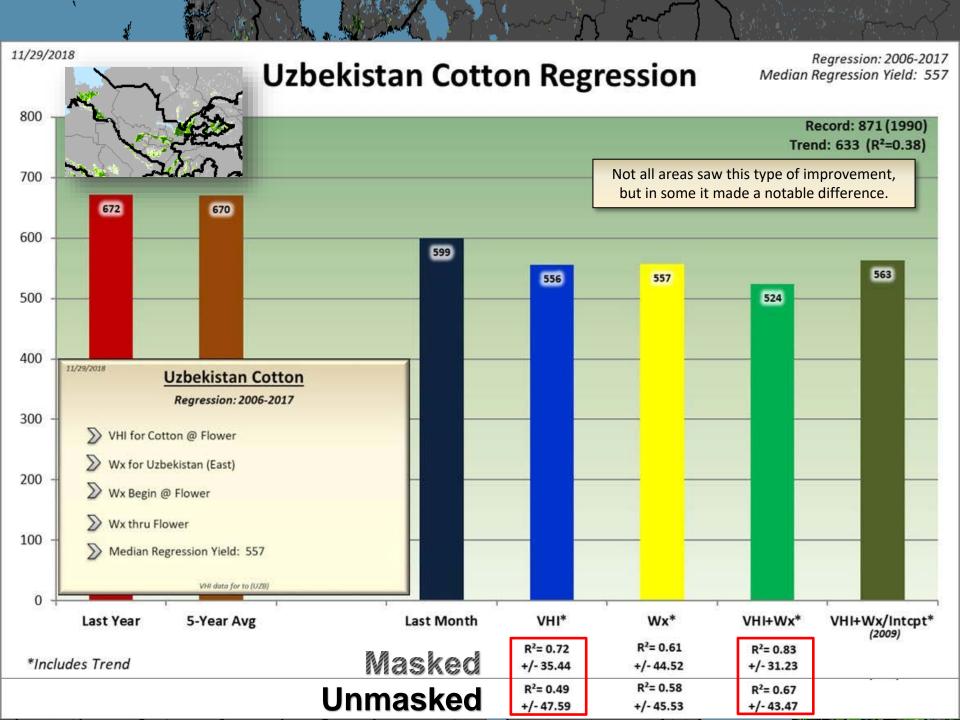


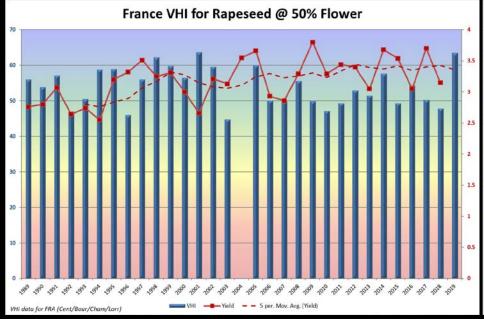


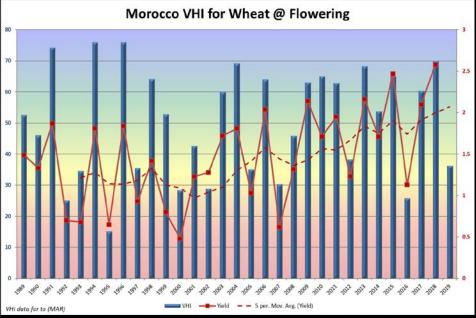


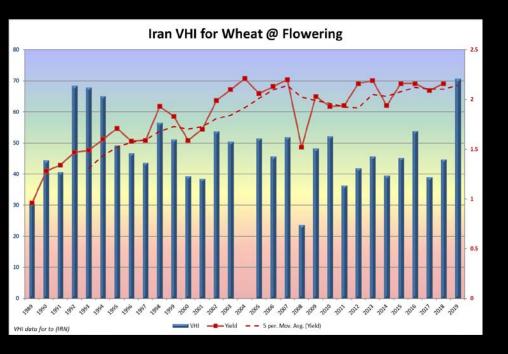




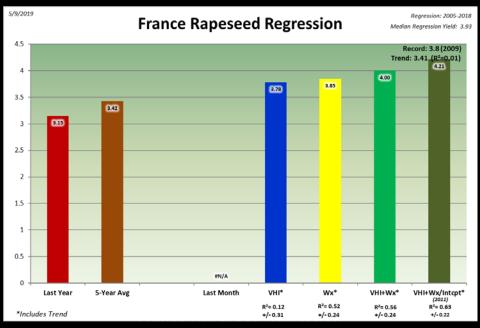


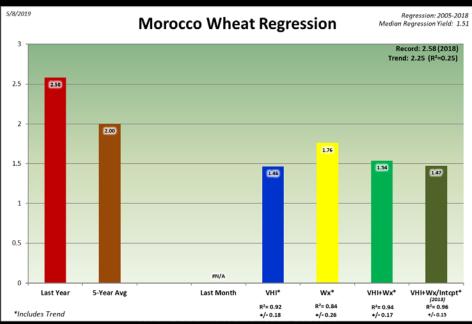


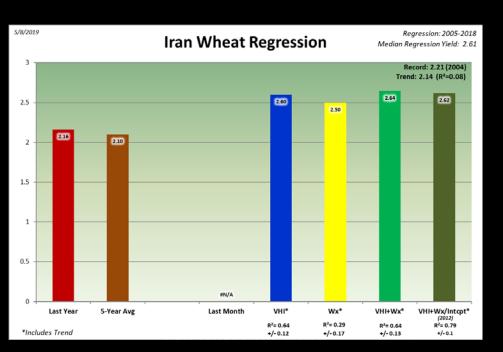




In the most recent WASDE (May, 2019), VHI & Weather data were featured prominently in my analysis, my presentation to the WAOB, and the subsequent slides used by the WAOB Chairman in the Secretary's Briefing the following morning.







For this month's WASDE, WAOB and FAS staff directly referred to the regression results to help determine the latest yield forecasts.

Rapeseed Regression Summary Table - May, 2019

5/9/2019	Last Year	Last Month	Suggestion (E)	Peak R ²	Regression (Peak R²)	Regression <u>Median</u>	Regression Range	Regression <u>Years</u>	<u>Date</u>	Trend (R²)	<u>5y</u>	<u>Record</u>
United Kingdom Rapeseed:	3.23	#N/A	3.9	0.79	4.39	3.89	<u>3.8 - 4.39</u>	2007-2018	5/9/19	3.57 (0.05)	3.56	3.94 (2017)
France Rapeseed:	3.15	#N/A	3.9	0.63	4.21	3.93	<u>3.78 - 4.21</u>	2005-2018	5/9/19	3.41 (0.01)	3.42	3.80 (2009)
Germany Rapeseed:	2.88	#N/A	3.9	0.85	4.95	5.06	<u>3.71 - 5.21</u>	2003-2018	5/9/19	3.54 (0.01)	3.58	4.48 (2014)
Poland Rapeseed:	2.58	#N/A	2.8	0.72	2.76	2.75	<u>2.55 - 3.41</u>	2007-2018	5/9/19	2.88 (0.02)	2.89	3.44 (2014)
Denmark Rapeseed:	2.61	#N/A	3.6	0.84	3.62	4.40	<u>3.62 - 5.59</u>	2008-2018	5/9/19	3.52 (0.03)	3.69	4.29 (2014)
Lithuania Rapeseed:	2.38	#N/A	2.8	0.93	3.07	3.13	<u>2.83 - 3.45</u>	2006-2018	5/9/19	3.02 (0.64)	2.72	3.17 (2017)
Czech Republic Rapeseed:	3.17	#N/A	3.4	0.87	2.54	3.04	<u>2.54 - 4.74</u>	2007-2018	5/9/19	3.38 (0.12)	3.38	3.95 (2014)
Slovakia Rapeseed:	2.88	#N/A	4.1	0.89	4.12	4.18	<u>3.35 - 4.76</u>	2007-2018	5/9/19	3.46 (0.52)	3.24	3.59 (2017)
Hungary Rapeseed:	2.95	#N/A	3.7	0.91	3.65	3.73	<u>3.31 - 3.89</u>	2007-2018	5/9/19	3.42 (0.59)	3.19	3.60 (2016)
Romania Rapeseed:	2.36	#N/A	3.6	0.96	3.36	3.62	<u>2.96 - 4.05</u>	2007-2018	5/9/19	3.35 (0.63)	2.98	3.65 (2016)
Bulgaria Rapeseed:	2.79	#N/A	3.2	0.92	3.13	3.12	<u>2.97 - 3.32</u>	2006-2018	5/9/19	3.07 (0.65)	2.81	3.05 (2016)

Pct Diff Tolerance: 5 Red = Record

In fact, the **Chairman of the Oilseeds Committee** and his assistant used this "Summary Table" to calculate the range of rapeseed production possibilities within the EU.

EU Wheat:

Spain Italy France UK . Denmark Germany **Poland** Lithuania Czech Republic Hungary Serbia Romania

Bulgaria

EU Rapeseed: Spain

UK France Germany Poland Denmark Lithuania Czech Republic Slovakia Hungary Romania

EU Sunflowers:

EU Corn: Spain France Italy Hungary Serbia Romania Bulgaria

France

Poland

Hungary

Romania

Bulgaria

Serbia

Italy

Germany

Wx- & VHI-driven regression are being run operationally for nearly 70 different country-crop pairs in my AOR alone! Many of these were specific requests from WAOB Economists or FAS personnel.

Russia Corn Moldova Corn Ukraine Sunflowers Russia Sunflowers Moldova Sunflowers Ukraine Soybeans Uzbekistan Cotton Kazakhstan Cotton

NW Africa:

Bulgaria

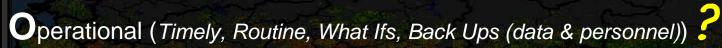
Morocco Wheat Algeria Wheat Tunisia Wheat Morocco Barley Algeria Barley **Tunisia Barley**

MIDEAST:

Turkey Wheat Syria Wheat Iran Wheat Turkey Barley Iran Barley Turkey Corn Turkey Sunflowers **Turkey Cotton**

egetation Health Index Final VHI Thought: "ROPE"

Reliable (Established, Peer Reviewed, Quality Controlled, Updated)



Portable (Global, Amin 00 & Admin 01, Universal Cropland, Uniform Format, Compatible)



Expedient (Openly Available, Easily Acquired, Simple, "Schedule-able") 🗸 & 🥇



Thank you!

