Monday June 10th

AGwx Report
https://www.youtube.com/watch?v=5mZGBJzug98&feature=youtu.be&hd=1
Weekly U.S. Crop Report

June 9, 2019

Plant Progress

2019
AVERAGE
2018

Corn
Soybeans
Wheat

Percent Experiencing Drought

Corn
Soybeans
Wheat

Emergence

Conditions

Excellent
Good
Fair
Poor
Very Poor

Percent Experiencing Drought

Corn
Soybeans
Wheat

Emergence Chart:
- Corn: 0%
- Soybeans: 0%
- Wheat: 0%

Plant Progress Chart:
- Corn: 2019: 0%
- Soybeans: 2019: 0%
- Wheat: 2019: 0%

Percent Experiencing Drought Chart:
- Corn: 0%
- Soybeans: 0%
- Wheat: 0%

Emergence Chart:
- 5-May: 0%
- 12-May: 0%
- 19-May: 5%
- 26-May: 10%
- 2-Jun: 20%
- 9-Jun: 30%

Conditions Chart:
- Corn: Excellent: 0%
- Soybeans: Fair: 32%
- Wheat: Poor: 18%
Drought Analysis

June 4, 2019

U.S. Drought Monitor

(Released Thursday, Jun. 6, 2019)
Valid 8 a.m. EDT

U.S. Drought Monitor Class Change - CONUS
1 Week

Soil Temperature and Moisture Analysis

<table>
<thead>
<tr>
<th>Location</th>
<th>T:</th>
<th>5:</th>
<th>10:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iowa</td>
<td>73°F</td>
<td>70°F</td>
<td>70°F</td>
</tr>
<tr>
<td>Nebraska</td>
<td>74°F</td>
<td>72°F</td>
<td>72°F</td>
</tr>
<tr>
<td>Illinois</td>
<td>74°F</td>
<td>72°F</td>
<td>72°F</td>
</tr>
<tr>
<td>T: 37%</td>
<td>5: 32%</td>
<td>10: 32%</td>
<td></td>
</tr>
<tr>
<td>T: 34%</td>
<td>5: 30%</td>
<td>10: 30%</td>
<td></td>
</tr>
<tr>
<td>T: 39%</td>
<td>5: 34%</td>
<td>10: 33%</td>
<td></td>
</tr>
</tbody>
</table>

Percent of Ag Experiencing Drought

- Corn: 0%
- Soybeans: 0%
- S. Wheat: 0%
- Hay: 1%
- W. Wheat: 1%
- Cattle: 1%

Author:
David Semerad
Western Regional Climate Center
Discussion

This week, a deepening upper level trough will swing through the Ag Belt, bringing well-below normal temperatures to the eastern 2/3 of the United States (top left). Additionally, at the surface we see much drier air work in under high pressure, with precipitable water values below normal (bottom right). In week two, the pattern returns to more of a northwest flow, much like we saw during the month of May. This will bring a return of more frequent and heavier precipitation, as well as additional severe weather threats to the central and northern Plains and the Great Lakes/Ohio Valley.
No new tropical development is expected across the Atlantic Main Development Region or the eastern Pacific in the next 5 days. Model data is not indicative of any new development in the next two weeks (left and center). Remnants of Invest 91L in the Gulf of Mexico this past weekend dropped areas of 6-10” over water. Over land, this tropical moisture was ingested into a surface cyclone and produced widespread 2-4” of rainfall across the southeastern United States. This should aid in reducing some of the drought conditions in that area this week.
<table>
<thead>
<tr>
<th>Time Period</th>
<th>Forecast Overview (Primary Ag Belt)</th>
<th>Confidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jun 10 – Jun 14</td>
<td>Calmer with well below normal temperatures.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jun 15 – Jun 19</td>
<td>Active with below normal temperatures and a return of severe weather chances.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jun 20 – Jun 24</td>
<td>Active with moderating temperatures.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jun 25 – Jun 29</td>
<td>Active with near to below normal temperatures.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jun 30 – Jul 4</td>
<td>Active with near-normal to below normal temperatures and the potential for severe weather.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jul 5 – Jul 9</td>
<td>Active with near-normal temperatures and the potential for severe weather.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jul 10 – Jul 14</td>
<td>Active with near-normal temperatures.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jul 15 – Jul 19</td>
<td>Monitoring a storm system early in the period.</td>
<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
<tr>
<td>Jul 20 – Jul 24</td>
<td>Monitoring a storm system with near-normal temps.</td>
<td>Low</td>
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<td></td>
<td></td>
<td>High</td>
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<td>Low</td>
</tr>
<tr>
<td></td>
<td></td>
<td>High</td>
</tr>
</tbody>
</table>
### Ag Weather Matrix

**June 10, 2019**

<table>
<thead>
<tr>
<th>Location</th>
<th>Avg 7-Day High</th>
<th>Avg 7-Day Low</th>
<th>Fcst Avg 7-Day High</th>
<th>Fcst Avg 7-Day Low</th>
<th>Avg 7-Day Precip</th>
<th>Fcst 7-Day Precip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indianapolis, IN</td>
<td>82</td>
<td>62</td>
<td>76</td>
<td>59</td>
<td>1.06</td>
<td>1.65</td>
</tr>
<tr>
<td>Chicago, IL</td>
<td>79</td>
<td>57</td>
<td>73</td>
<td>57</td>
<td>0.81</td>
<td>0.90</td>
</tr>
<tr>
<td>Springfield, IL</td>
<td>82</td>
<td>61</td>
<td>76</td>
<td>59</td>
<td>0.80</td>
<td>1.30</td>
</tr>
<tr>
<td>Cleveland, OH</td>
<td>78</td>
<td>59</td>
<td>74</td>
<td>59</td>
<td>0.86</td>
<td>2.05</td>
</tr>
<tr>
<td>Columbus, OH</td>
<td>81</td>
<td>61</td>
<td>75</td>
<td>58</td>
<td>0.91</td>
<td>2.90</td>
</tr>
<tr>
<td>Cincinnati, OH</td>
<td>82</td>
<td>62</td>
<td>76</td>
<td>58</td>
<td>0.96</td>
<td>2.50</td>
</tr>
<tr>
<td>Madison, WI</td>
<td>77</td>
<td>56</td>
<td>71</td>
<td>53</td>
<td>0.77</td>
<td>1.15</td>
</tr>
<tr>
<td>Detroit, MI</td>
<td>79</td>
<td>59</td>
<td>74</td>
<td>57</td>
<td>0.88</td>
<td>1.80</td>
</tr>
</tbody>
</table>

**Temperature Key**
- MBN (Much below normal)
- BN (Below normal)
- AN (Above normal)
- MAN (Much above normal)

**Precipitation Key**
- MBN (Much below normal)
- BN (Below normal)
- AN (Above normal)
- MAN (Much above normal)

**Abbreviations:**
- MBN (Much below normal)
- BN (Below normal)
- AN (Above normal)
- MAN (Much above normal)
Temperature Analysis

June 10, 2019

EPS Day 1-5 Anomaly

EPS Day 6-10 Anomaly

EPS Day 11-15 Anomaly

GEFS Day 1-5 Anomaly

GEFS Day 6-10 Anomaly

GEFS Day 11-15 Anomaly

TBSWEATHER.COM
The majority of the Ag Belt will still see above normal precipitation this week, though the pattern will be less active than the past three weeks have been. Dry conditions are expected across Dixie Alley. Below normal temperatures are expected across the eastern 2/3 of the United States as a trough digs in. Above normal temperatures are expected in the western United States with significant upper level ridging. Confidence is relatively high for this outlook.
The majority of the Ag Belt will still see above normal precipitation in week two, with a more active pattern returning. The northwest flow should allow for the development of multiple MCS-type systems to dive southeast through the Great Lakes and Ohio Valley regions during this period. Below normal temperatures are forecast to continue through week two, but temperatures will be moderating some. Warmer than normal temperatures are expected to persist across the western United States. Confidence is medium in this outlook. Higher confidence lies with the precipitation outlook than the temperature outlook.
Discussion

Through the next 30 days, the pattern over the Ag Belt will remain cool and wet as a general consensus. Confidence is moderate in the wet pattern persisting into mid-July and possible past that as well. The area of above normal precipitation may shift slightly eastward through the summer, with a bit drier pattern over the Plains. Temperature-wise, confidence is lower. While we do anticipate below normal temperatures through week 1 and 2, lesser confidence lies with weeks 3 and 4. Warmer risks may develop in that time period, but quite a lot of uncertainty remains. Overall confidence in the 30-day outlook is moderate.