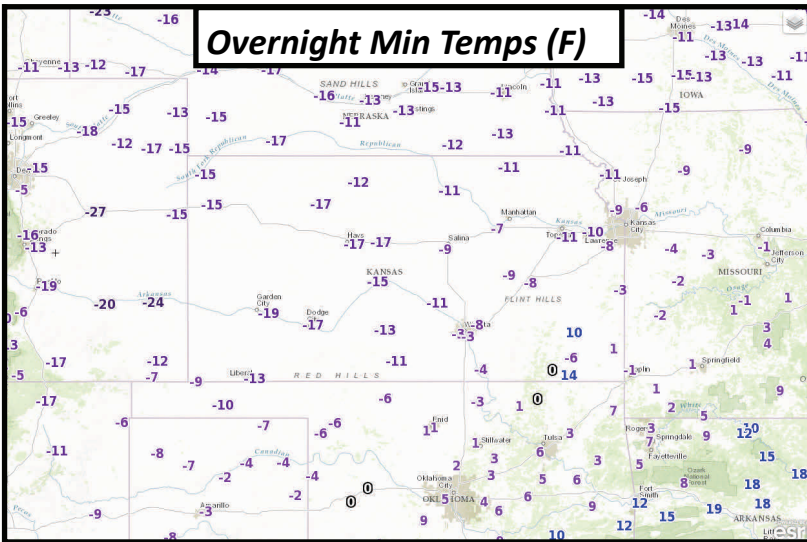




U.S. Wheat Winterkill Event

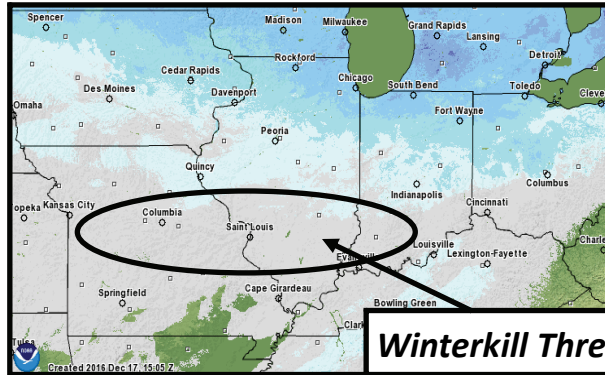
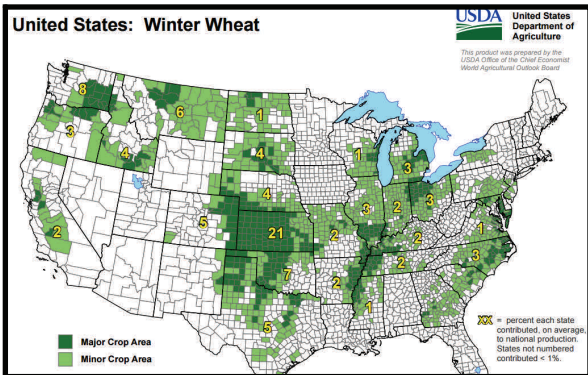
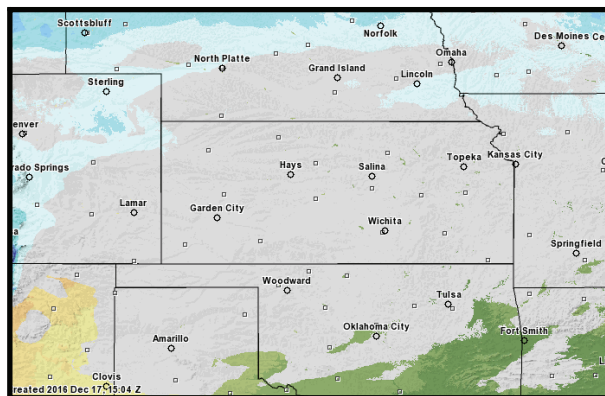
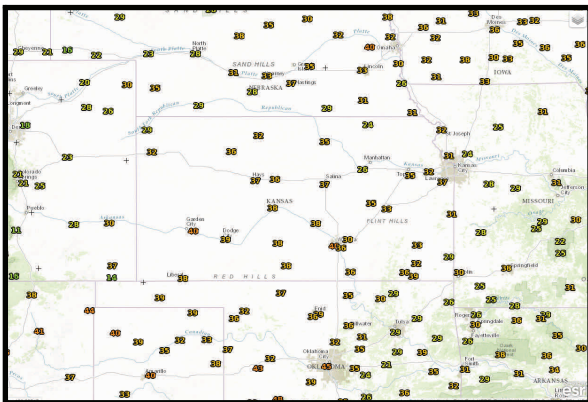
10:15 am ET Sunday December 18, 2016



- At Least 1/2 of Plains Hard Red Winter Wheat Below Winterkill Threshold Overnight
- Snow Cover Insufficient to Protect Crop (Mainly <2")
- Strong Winds/Drifting Snow Diminished Protection as Well

Max Wind Gusts Past 24 Hours

Estimated Snow Cover



Winterkill Threat Tonight

- Plains hard red winter wheat damage focused in S. NE/N. & W. KS/SE CO/OK Panhandle (50% of national hard red winter wheat acreage); losses of 10 to 20% typical for such intense cold; poor fall establishment due to dryness added to vulnerability
- Midwest soft red wheat holding on to better protective snow cover in coldest areas tonight, but there is still a risk in C. MO/S. IL/SW IN (10% of national soft red winter wheat acreage)
- Next cold push early next week (12/25 to 12/27), but limited access to Arctic air keeps winterkill risk low in Midwest/Plains