

Harvest Summary of HRW July 1, 2022

By Mark Hodges, Executive Director, Plains Grains, Inc.

<u>State</u>	<u>Percent Complete:</u>
○ Texas	83%
○ Oklahoma	98%
○ Kansas	75%
○ Colorado	0%
○ Nebraska	0%
○ South Dakota	0%
○ Montana	0%
○ Washington	0%
○ Oregon	0%
○ Idaho	0%
○ Wyoming	0%

The 2022 HRW harvest continues to wind down in Oklahoma/Kansas/Texas. Cutting is now nearing completion in those states. Hot and windy conditions over the last 2 weeks have continued to allow significant progress with harvest. Yield reports continue to range from 20 bu/ac to 30 bu/ac range with some higher exceptions. The Texas harvest has moved into the higher elevations of the Texas/Oklahoma Panhandles.

Test weights continue to average above 60 lb/bu again this week with just short of 200 samples now collected and in various stages of testing. Protein is now averaging 13.2% (with isolated reports again this week of over 15%). There are now just short of 200 samples in the lab with no expectation of that pace slowing over next week to 10 days. Early falling numbers are reflective of excessive rain events accompanied by high humidity during final stages of development. As Colorado and Nebraska ramp up for the start of harvest this week, Oklahoma/Texas/Kansas are winding down very quickly.

PGI only pulls samples when at least 30% of the harvest is complete within a geographical area. The Oklahoma Wheat Commission extended report starts on page 5 and the Kansas extended report starts on page 8.

June 24, 2022

Tst	Exp	MST	Pro %	DKG	TKW	FN	Grade	Test Weight	FM	DMG	S&B	DEF
126**	520	11.1	12.3	0.4	30.3		HRW 1	60.5 79.6	0.1	0.4	0.8	1.3

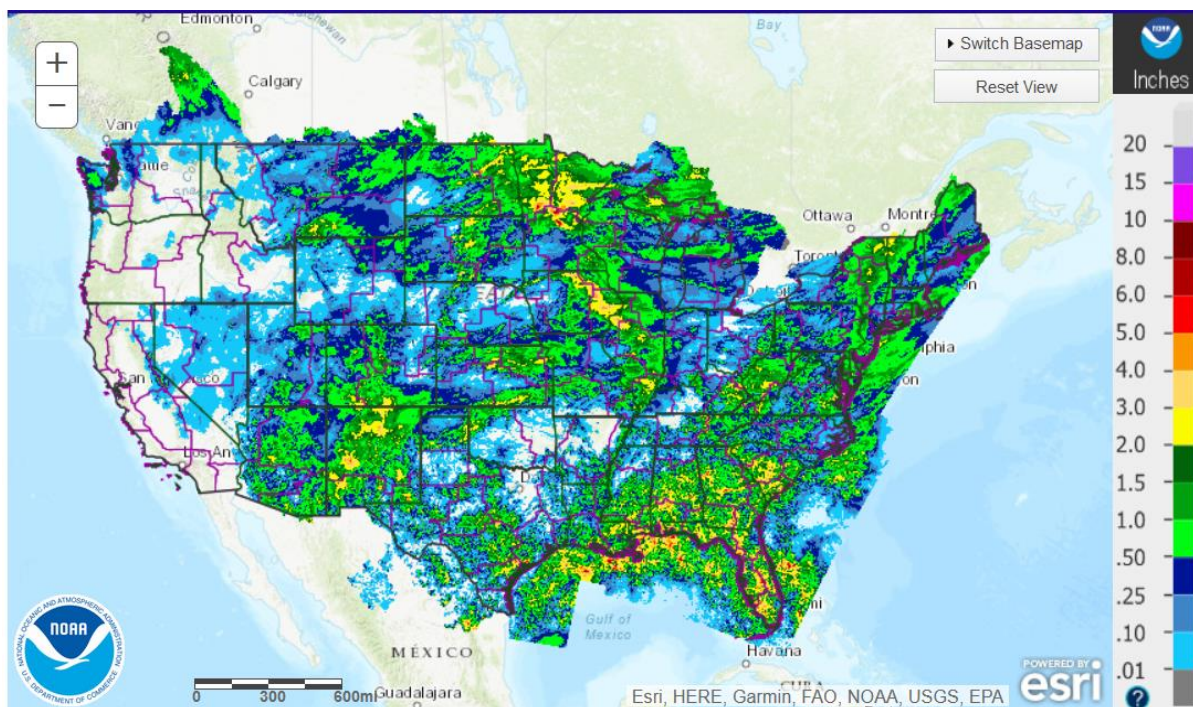
July 1, 2022

Tst	Exp	MST	Pro %	DKG	TKW	FN	Grade	Test Weight	FM	DMG	S&B	DEF
196**	520	10.8	13.2	0.4	29.7	284	HRW 1	60.7 79.8	0.1	0.4	0.8	1.3

**All 196 samples are in various stages of testing.

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NOAA Observed Precipitation over the last 7 Days ending 6/30/2022

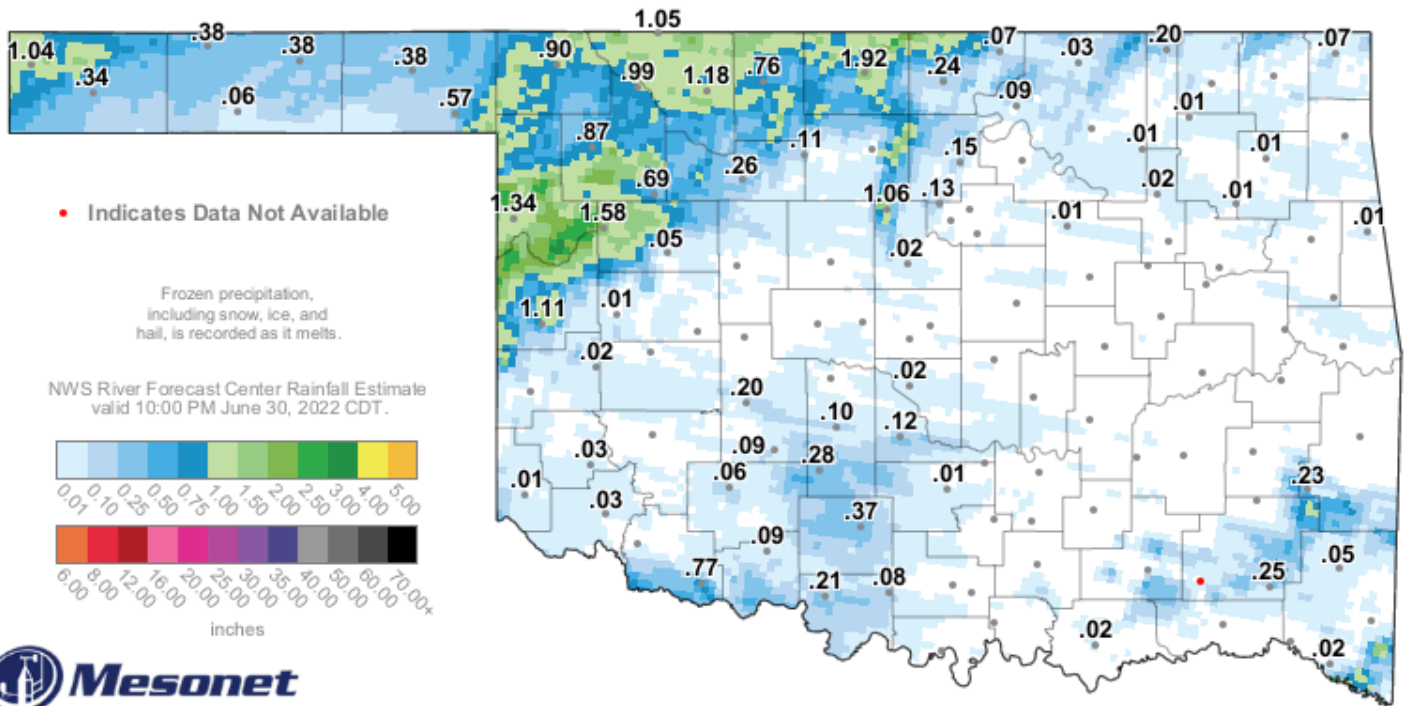


States Update:

June 30, 2022

1. **Texas** – 80% harvest Monday. Expect July 4th end of harvest, in line with avg. Farther north – irrigated, slightly higher yields (50 bu/ac), some good yields. Hot/dry, some storms past weekend.
2. **Oklahoma** – 95% harvested. Sprout damage est. 5-10% of crop. 12-13% pro. Variable yields - low teens to mid-20's SW, S.Central - 10 mid 30's. Central/N 15 bushels – 65 bu. In the Northern tier (better yields) 20's to mid-30's. TW avg. in S/Central 58 lb/bu. TW avg. N/Panhandle 56-61 lb/bu.
3. **Kansas** – 70-75% harvested. Rain delays last week. Uneventful, variable yields (double crop yields low 10-20). Fallow wheat better (40-60 bu avg.) USDA 271 mln by, avg yield 39. 62-64 lb TW, rainy areas more 58/59 lbs. Expect state avg. Over 60 lb. Higher protein 12%+.
4. **Colorado** – More heat, wind, snow. Good areas – hail last week. 27% P, 31% VP. Harvest started - slow. Northern CO yields 10-20 range. Concerns over TW issues due to heat. Swathing E/Central for sawfly.
5. **Nebraska** – Harvested started most along KS border.
6. **Wyoming** – Minimal precip. Increased freeze damage in earliest planted dryland crop. Ratings improved 60% F-G, 40% P-VP. Harvest start in next 2 weeks.
7. **South Dakota** - HRW: 43% G/E, 95% Headed, Harvest expected to start 2nd week in July. NASS estimate = 33.8 million bushels (+24% over 2021) HRS: 68% G/E, 45% Headed. Harvest expected to start late July.

8. **Montana** – Pockets of problem areas. Drought area shrinking - stronger in Golden Triangle. Timely showers, variability for yields/quality. Lost about 400,000 acres of spring, durum declined slightly. Dry planting. Far out from winter harvest. Cool at night. Grasshoppers.
9. **Idaho** – High temps. NASS reports some hail damage N/ID. Rust reports S/Central. Consistent crop, Winter mostly headed 75% vs, 88% avg. 71% G-E, Spring 29% headed vs. 35% avg. 69% G-E, 2 weeks out from harvest. Avg. to above avg. yields.
10. **Oregon** – Warmer temps, harvest delays. Drastic improvement in crop conditions. Winter 77% G-E vs. 2021 71% P-VP. Topsoil/subsoil good. Expect some insect/disease pressure due to wet weather.
11. **Washington** – 6.7 fieldwork days. Hot/above avg. temps. Winter improved slightly - 14% E, 59% G, 23% F, 3% P, and 1% VP. Spring improved - 11% E, 82% G, 4% F, and 3% VP. Winter 87% headed vs. 99% avg. Spring 36% headed, behind 74% avg.
12. **Minnesota** - NASS 64% G-E, 35% F, and 1% P. Planted acres are difficult to grasp/ atypical switching. Many wheat acres become bean/flower, a lot of corn acres became wheat. Slight increase in planted acres vs. 2021. Some rains/cooler temps. Flowering 4-6 weeks behind, concerns over higher temps.
13. **Maryland** – 60% harvested. 60-70% G-E, small pockets of frost damage/higher levels of DON/Vomitoxin. Yields great – avg. 70-110.
14. **Ohio** - Southern Ohio harvest complete. Yields 80-100 bu/ac range, some higher. Northern Ohio harvest started, wind/storm damage last week. Yields 75-100 bu/ac with a few reporting 120-130 bu/ac. No reports of high vomitoxin yet.
15. **PGI/NASS** – (HRW) 98% complete in OK. Remaining acres in Panhandle. 200 samples in lab. TW, Kernel size: 163 samples, other kernel characteristics: 153 samples:, FN: 90 samples. 60.7 lb/bu TW, kernel size – L 57.4%, M 41.4%, S 1.2%. Diameters good, shorter kernels but 2.58 mm avg. 66.1 hardness, moisture 10.8%, 1000 KW – 29.7 g. FN 283.8 (concerns). 13.2% Pro avg.
16. **Dave Green/WQC** - Millers liking TW/Protein (12-12.5 expected). Farinographs excellent, absorption up 2/3% from 2021. Bread bakes through KS promising. Down a few % for extraction, but overall really like the crop. **Brian Walker** – Smaller kernels, extractions may come down slightly. Take time for mills to adjust. Avgs. Solid, resilient varieties.
17. **Rail/logistics** – Embargo in S. California. Turn times to PNW improving.
18. **USW/Portland** – Technical teams with WMC and some upcoming trade teams.



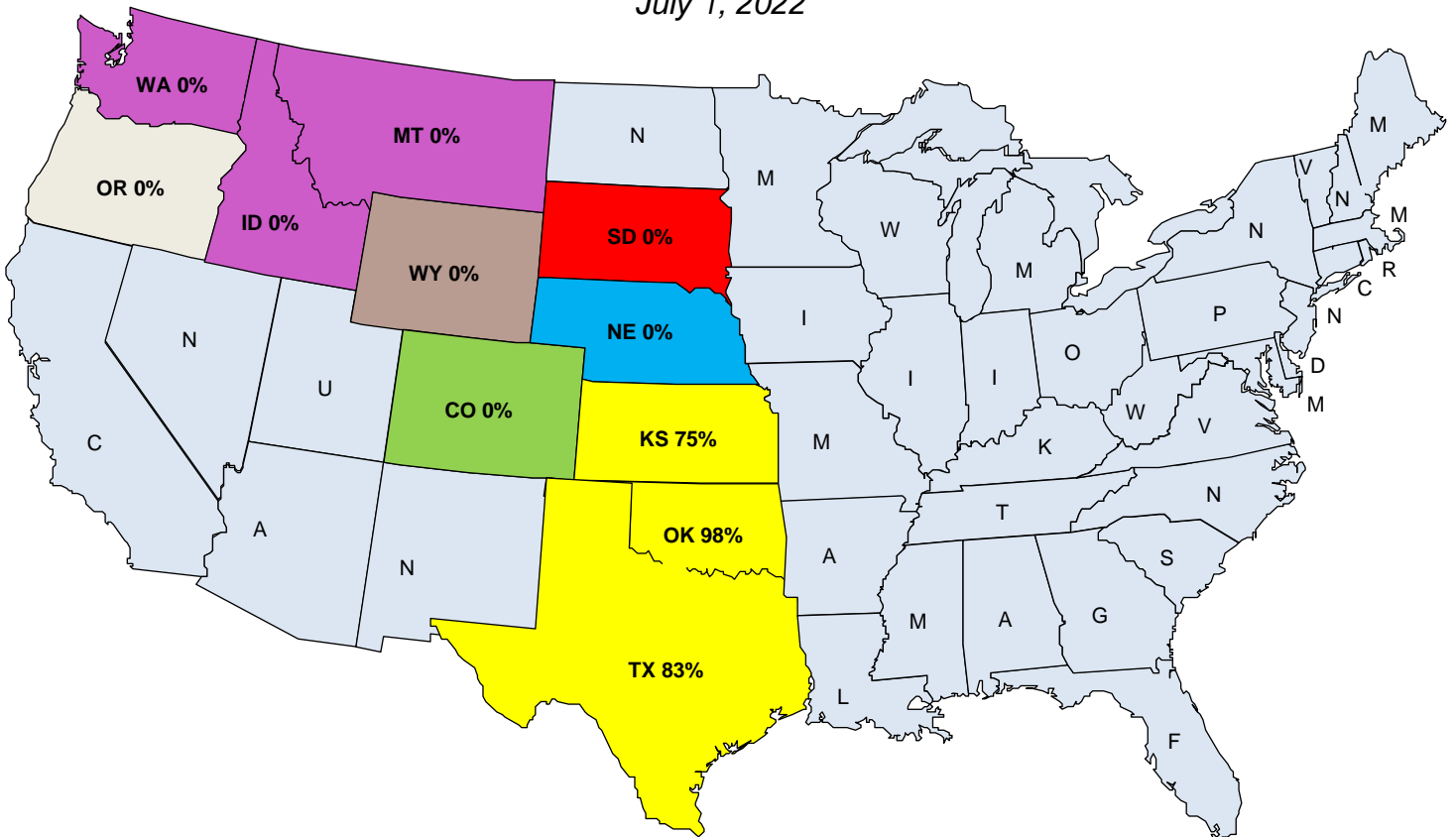
7-Day Rainfall Accumulation (inches)

11:35 PM June 30, 2022 CDT

Created 11:41:04 PM June 30, 2022 CDT. © Copyright 2022

Percent HRW Harvested by State

July 1, 2022



Oklahoma Wheat Harvest At 95% Complete

Oklahoma Harvest Report

By: the Oklahoma Wheat Commission

Monday June 27, 2022

Oklahoma Wheat harvest is wrapping up in the Northern and Panhandle regions of the state. Harvest has been hindered in spots due to rain showers over the past 5 days in the Panhandle, Northwest and North Central Oklahoma. Rain showers this afternoon across the Panhandle and Northern Oklahoma will slow progress of completion. (*Note: Quality of the crop has not changed on what was previously reported from last week.*) Sprout damage being reported in the state from regions hit by heavy rains is accounting for approximately 5 to 10% of the crop. It is important to note much of the crop that has sprout damage is also reporting minimal numbers in that 5 to 7% range. When looking at the averages for blending purposes it seems sprout is not going to be as big an issue as previously thought. Proteins across the state are favorable with averages coming in between 12 to 13% in most places. Yields are ranging all over the board from the low teens to mid-20's in Southwest, Oklahoma. In South Central Oklahoma, yields being reported from 10 bushels per acre to the mid 30's. Yields in central and Northern Oklahoma are being reported as higher ranging from 15 bushels per acre to as high as 65 bushels per acre. In the Northern tier of the state where yields are better, regions are still looking at averages in the high 20's to mid-30's. It is also important to note several areas in Northwest Oklahoma up by Cherokee and Burlington had severe drought and large portions of that region will not be harvested, which will also have major impact on statewide bushels that are taken in. Test weight average in Southern and Central Oklahoma will be 58 pounds per bushel. Test weight averages in Northern Oklahoma and in the Panhandle will be higher falling in the 59 pound to 61 pound per bushel range depending on location. *The Oklahoma Wheat Commission is now calling Oklahoma wheat harvest 95% complete.* Due to lack of harvest taking place on the minimal amount left to harvest with the rains this week and the 4th of July holiday a final harvest report from the Oklahoma Wheat Commission will be published on *Wednesday, July 6, 2022.*

See definitions of classes and what they are used for on the next page.

**Hard Red Winter Wheat-Versatile, with excellent milling and baking characteristics for pan bread, Hard Red Winter is also a choice wheat for Asian noodles, hard rolls, flat breads, general purpose flour and cereal.

**Soft Red Winter Wheat- A versatile weak-gluten wheat with excellent milling and baking characteristics, Soft Red Winter is suited for cookies, crackers, pretzels, pastries and flat breads.

Southwest

Grandfield/Devol/Chattanooga/Lawton- Grandfield is 99% complete, Devol is 99% complete, Chattanooga is 99% complete, Lawton is reported 99% complete. Test weights in this region ranging from 58-60 pounds per bushel. Yields ranging in the low teens to mid-20's. Proteins ranging from the 11.5% to 12.5%. No sprout damage reported from these locations.

Frederick- Harvest in this region is 99% complete. Test weights ranging from 60 to 61 pounds/bushel. Proteins ranging from 12 to 12.5% range. Yields being reported from low teens to high twenties, averaging in the low 20's.

Altus/Duke/Carter- Harvest in this region reported as 99% done. Test weights now trending 56-59 pounds per bushel compared to earlier cuttings making 59 to 60 pounds per bushel. Yields reported from 5 bushel an acre to mid-20's. Proteins ranging from 13% to 16%.

Lone Wolf/Hobart- Harvest in these regions is reported at 99% complete. Test weights being reported from 55 to 58 pounds per bushel. Yields ranging from low teens to mid-20's. Proteins reported making from 13% to 16%.

South Central

Apache- *Wheat harvest is moving along in this region and is considered 99% complete.* Test weights have been ranging from 57 pounds to 58 pounds per bushel for the most part. On the intensive management wheat, they are seeing some 60-pound test weights. Yields for the most part are ranging from 10 to 35 bushels per acre depending on location, management and variety.

Chickasha- *Harvest in this region 99% complete.* Yields are doing much better than expected based on all the heavy rains, high winds and hail damage that occurred. Test weights ranging from 58 to 59 pounds per bushel. Yields making in the mid 20's to mid-30's. Some minor sprout damage is being reported but not as bad as expected. Some producers have had 20 to 40% hail damage losses.

Western Oklahoma

Sentinel/Rocky- *Harvest has made great progress over the weekend and is reported at 99% complete.* Test weights reported in the 56 to 60 pounds per bushel range. Yields being reported from 14 to 28 bushels per acre. Proteins ranging from 13% to 17% depending on variety and management practices.

Hinton- *This region is reported at 99% complete.* Yields are doing better than expected after all the storms that hit prior to last week. Yields ranging in the mid 30's, test weights averaging 60.5 pounds. Proteins ranging from 10% to 17% with a 13.5% average.

Central Oklahoma

El Reno- *They are reporting 99% harvested in this region.* Yields are being reported from the low 20's to the low 40's depending on variety and management. Test weights ranging from 57 to 59.5 pounds per bushel. Protein ranging from 11% to 14.5%

Kingfisher/Omega- *Harvest in this region reported to be 99% complete.* Test weights with ranges reported from 57 to 60 pounds per bushel. Yields averaging in the high 20's to low 30's. Proteins have ranged from 10% to 15%, seeing a lot in the 11.5% to 12.5% range.

Reeding- *Harvest in this region reported 99% complete.* Test weights with ranges from 57 to 59 pounds per bushel being reported. Yields averaging mid-teens to low 30's depending on variety and management. Proteins ranging from 11% to 12%.

Loyal- *Harvest in this region reported at 99% complete.* Test weights averaging 57 to 59 pounds per bushel. Yields on early harvested wheat making in the low 20's to low 40's. Protein ranging from 11.5% to 12.5% on early samples.

Northwest OK

Shattuck/Fort Supply- *This region being reported at 96% complete.* Test weights ranging from 57 to 62 pounds per bushel depending on variety and management. Yields ranging from 5 bushels to 25 bushels per acre. Proteins are ranging from 12% to 14%.

Burlington- *Harvest in this region reported at 99% complete.* A large area in this region will not be harvested due to the severe drought. On the crop that will be harvested, test weight for this region is averaging 58 pounds per bushel. Yields making in the mid 20's to mid-40's on the wheat that will be harvested depending on where moisture was received in a timely manner and management practices. Proteins ranging from 12% to 13%.

Helena/Goltry- *Harvest in this region 98% complete.* Yields reported from the mid-teens to mid 30's. Yields have increased as harvest has progressed as producers have gotten into better wheat. Test weights ranging from 58 to 60 pounds per bushel. Proteins are averaging 13%.

Northern Oklahoma

Pond Creek/Lamont- *This area reported to be 95% complete.* Test weights ranging from 58 to 60 pounds per bushel. Yields being reported in the low 30's to mid-40's. Proteins ranging from 12% to 16%.

Medford/Deer Creek- *Producers in this region are moving forward and harvest is reported 95% complete.* Test weights on early cuttings ranging from 58 to 61 pounds per bushel. Yields in this region have been reported to be making better because of timely rains. The yields are ranging from low 30's to mid-40's. Some reports on management intensive wheat to be making in the high 60's. Proteins have been ranging from 11% to 16%.

Perry/Tonkawa/Ponca City/Blackwell- *Harvest reported at 96% complete. Test weights ranging from 58 to 61 pounds per bushel. Protein averages around 12 to 13%. Yields making in the mid 20's to mid-40's with some areas reporting higher yields on management intensive wheat.*

Northeast & Eastern Oklahoma

Afton/Miami/Wetumka/Webber Falls - *Afton is 95% complete, Miami is 85% complete. Wetumka and Webber Falls is at 95% complete. Test weights on both the Hard Red Winter (HRW) and Soft Red Winter (SRW) wheat is ranging from 60 pounds to 65 pounds per bushel. Yields on both the HRW and SRW ranging from 30 bushels to 65 bushels per acre, depending on variety and management practices. No proteins reported at this time, no sprout damage has been reported for wheat in this region.*

Panhandle

Balko- *Dryland harvest is 95% complete, irrigated wheat harvest is 85% complete. The dryland wheat in parts of this region are doing better than anticipated with reports ranging from mid-teens to low 40's. Irrigated wheat in this region ranging from mid 40's to the mid 80's with higher yields than expected given the year. Test weights ranging from 62 to 64 pounds per bushel. Proteins averaging 12.5%*

Hooker- *Harvest on the dryland wheat is progressing with 95% of the dryland wheat being harvested. Harvest on the irrigated wheat reported at 85% complete. Yields on the dryland wheat making from 5 bushels per acre to in the mid 20's depending on location. Yields on the early irrigated wheat not favorable with reports on early cuttings making in the low to mid 40's, with a few reports of some making in the mid 60's to low 70's. Test weights on the dryland wheat weighing 63 pounds to 64 pounds per bushel, nothing weighing less than 60 pounds per bushel on the irrigated wheat. Protein for this region being reported at 12.5%.*



FOR IMMEDIATE RELEASE

June 29, 2022

Contact: Marsha Boswell, mboswell@kswheat.com

Day 13, Kansas Wheat Harvest Report

For audio file, please visit kswheat.com.

This is day 13 of the Kansas Wheat Harvest Reports, brought to you by the Kansas Wheat Commission, Kansas Association of Wheat Growers and the Kansas Grain and Feed Association.

Combines are now on the roll in northwest and north central Kansas with the return of hot, windy weather. Mid-harvest rains have reduced test weights, but variety selection and farming practices are making a big difference in how the crop is finishing out.

Tanner Durham was cutting south of Randall in Jewell County on Wednesday. The family also farms in neighboring Mitchell County. Harvest here in north central Kansas is on time, having started on Monday and hoping to finish up by Friday without rain delays.

Yields are coming in from the upper 30 bushels per acre up to the 60s bushels per acre range. Proteins are averaging around 12 percent. Test weights started at 62 pounds per bushel, but after some mid-harvest rains are now at 57 pounds per bushel.

Overall, Durham reported it's been a good harvest with clean wheat and decent seed size. The wheat is short compared to a normal year, but nowhere near as short as in other parts of the state. With spring planting also complete, farm life in north central Kansas is right on track.

Closer to the Colorado border, the Schemm family — son Clay and parents Lisa and David — started harvest in Logan County on June 21 and now have moved west to Wallace County. The family operation has more wheat acres this year, so they are harvesting about a third of their acres and hiring custom cutters to cut the other two-thirds. Altogether, they hope to be done cutting by the upcoming holiday.

Clay Schemm noted there was not much fall growth, but a hefty early spring snow of 24 inches brought much-needed moisture during an otherwise dry year. The snow and May rains helped the wheat significantly.

As a result, their farm yields — while still below normal — are averaging around 50 bushels per acre. Test weights are heavy at 61 to 63 pounds per bushel. Proteins are averaging 12.5 percent and above. Clay Schemm noted two varieties — KS Dallas from the Kansas Wheat Alliance and AgriPro/Syngenta's SY Wolverine — are performing particularly well.

Fields have a little weed pressure where stands are thin but no disease pressure. The operation recently switched back to minimum tillage, where the family tills the ground before planting wheat to control perennial grasses that are resistant to chemical applications. Clay Schemm said they would ideally use a cost-effective herbicide to control the weeds, but without that option, tilling the soil is essential to keeping weeds down to preserve soil moisture.

Tillage is a tool also used by Mosbarger Family Farms, which grows wheat in three northwest Kansas counties. Wheat is an important part of their crop rotation, building residue for next year's crop.

"That's the way we make two years of dryland corn work," said John Mosbarger, who is based in Goodland. They plan to continue their normal crop rotation regardless of price changes for the different crops.

Mosbarger explained their operation was entirely no-till until three years ago when they decided to start making two to three passes with the sweep before drilling wheat. Working the ground is giving them larger soil particle size, less wind erosion and better wheat emergence.

"We like to pull from a lot of different practices so that we have the most tools in our toolbox," he said.

In addition, they've been fighting palmer amaranth and kochia, two weeds that are resistant to herbicides.

"They aren't resistant to steel yet," he joked.

This year's wheat harvest just started for Mosbarger Family Farms on June 27 and is expected to last about two weeks.

While harvesting a field of KS Hamilton in Cheyenne County, Mosbarger said, "Wheat is pretty amazing," noting that they didn't get the stand they wanted in the fall and there was limited moisture throughout the growing season. Variability from field to field is based on emergence last fall. Regardless, he expects their farm to average 45 bushels per acre this year. Test weights are averaging 60 pounds per bushel and protein is right around 12 percent.

Mosbarger noted their expectations of yield have changed over the years, normally hoping to grow at least 60-bushel wheat. Even though this year's crop isn't meeting those expectations, it's much better than they anticipated in March.

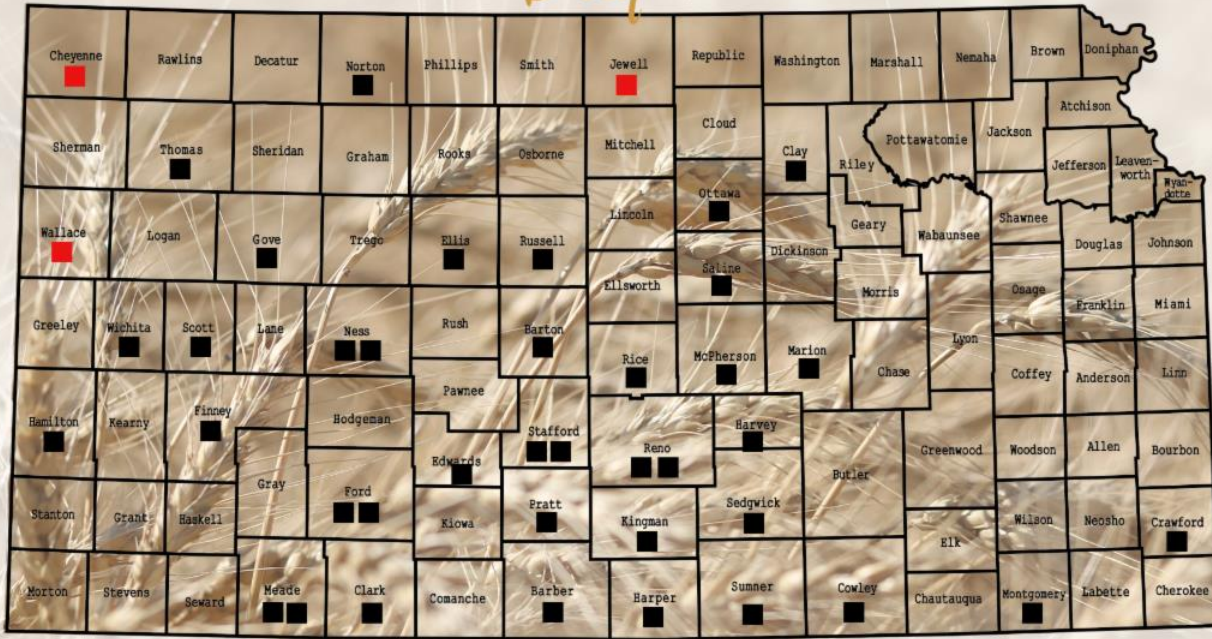
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Written by Julia Debes for Kansas Wheat

2022 Harvest Reports

Day 13



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