

2017 Guide for No-till Winter Wheat Production after Soybeans in Dodge & Washington Counties

Step 1: Variety selection

Table 1. Recommended varieties based on 2014-2016 trial yield data in Saunders County and *promising* varieties (only tested 1 year) based on 2016 yield data. 2017 data below was collected at the Washington County location.

Variety (year of release)	2017 Heading Date (days diff)	2017 Relative Height (inches)	2017 Lodging % May 16 Event	2017 Stripe Rust Ratings (1-Resistant, 9 Suscept.)	Fusarium Head Blight†
SY Wolf (2011) - Reference	0	0	1	1.4	MS
HG Ruth (2016)	+2	+5	13	2.0	MS
HG Freeman (2013)	-1	+1	20	2.8	MS
WB Cedar (2010)	-6	-3	5	3.4	S
<i>Promising – WB Grainfield (2012)</i>	-1	+3	14	2.0	MS
<i>Promising – WB 4303 (2015)</i>	-2	-2	0	2.2	MS
<i>Promising – WB 4721 (2015)</i>	+1	+1	0	2.0	S
<i>Promising – Zenda (2016)</i>	-2	+1	0	1.8	MS-MR

† S = susceptible, MS = moderately susceptible, MR = moderately resistant, R = resistant. More info at CropWatch Wheat Varieties Virtual Tour (<http://cropwatch.unl.edu/wheat/virtual>) & Winter Wheat Variety Test Results (<http://cropwatch.unl.edu/winter-wheat-variety-test-results>).

Local seed suppliers:

- Rezac Seed in Saunders County, 402-784-3875.
- Kubik Seed Sales in Saunders County, 402-663-4379
- Kaup Seed at West Point, 402-844-3304
- More information in 2016-17 NE Crop Improvement Association Seed Book at <http://www.necrop.org/SEED%20BOOKS/2016Small.pdf>



Figure 1. SY Wolf in 2017 Variety Trial in Washington County and grower selected variety.

Step 2: Planting practices

- Fungicide seed treatment recommended. Ask seed provider for seed treatment fungicides options.
- Recommended seeding dates of Sept 25 to Oct. 15, w/late planting until Oct. 30
- Final planting date for 100% crop insurance coverage is Oct. 15 (See Map at http://www.rma.usda.gov/fields/ks_rso/2017/final/newheat.pdf). Delayed planting coverage until Oct. 30.

- Recommended seeding rates of 1.2 million pure live (PLS) seeds per acre or 28 PLS per square foot. Increase seeding rates by 150,000 PLS/acre per week after October 1 up to a maximum of 1.8 million PLS/acre or 40 PLS per square foot at the end of October.
 - Mid-September – Oct. 6 = 1.2 million PLS/acre
 - Oct. 7 – Oct. 14 = 1.35 million PLS/acre
 - Oct. 15 – Oct 21 = 1.5 million PLS/acre
 - Oct. 22 – Oct 29 = 1.65 million PLS/acre
 - Oct. 30 or later = 1.8 million PLS/acre
- Calculate seeding rate (lbs/acre) = (1,200,000 pure live seeds per acre) / (% pure seed/100) / (% germ/100) / (seeds per pound). Assuming 99.5% purity, 96% germ, and 14,300 seeds per pound, the recommended seeding rate would be 88 lbs per acre or 1.5 bushels/acre. Seed size varies greatly by variety and year.
- Use new Seeding Rate Calculator at <http://croptechcafe.org/winterwheat>
- Recommended planting depth of 1.0 to 1.5 inches. Seeding less than 1" and more than 2" decreases overwintering survival.
- Since planning into no-till into soybean stubble, you can add 20 lbs/ace of P₂O₅ in-furrow with MAP fertilizer for increased winter hardiness.

Step 3: Nitrogen (N) fertilizer

- Based on regional N recommendations and local grower experience: 80 – 120 lbs N/acre.
- Apply most or all of your nitrogen as wheat begins to green up in February or March
- Grain protein is improved with sufficient N. N applications at flag leaf (Feekes 9) can still improve protein.

Step 4: Diseases and foliar fungicide

- Most common fungal diseases in our area that can cause significant yield or grain value loss:
 - Fusarium head blight: <http://extensionpublications.unl.edu/assets/pdf/ec1896.pdf>
 - Stripe and leaf rust: <http://extensionpublications.unl.edu/assets/pdf/g2180.pdf>
- Use variety selection, field scouting, and fungicides to help manage these diseases.
- Foliar fungicide application at flowering (Feekes 10.51) will help reduce scab and vomitoxin (DON) that may cause dockage or rejection at local elevators.
 - Caramba at 14 oz/ac or Prosaro 6.5 oz/ac are to examples of fungicides and rates to use for controlling scab.
- Get a copy of the 2017 Guide for Weed, Disease, and Insect Management in Nebraska for more information on fungicide use in winter wheat. Available at the Dodge or Washington County Extension office.

Step 5: Local elevators in Fremont

- Call Scoular Grain at 402-721-9767 or ADM at 402-721-1468
- Protein above 12.0% and less than 13.5% moisture

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