



JANUARY 2022

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Winter Wheat Disease and Weed Control in OK, KS and TX

- Topguard fungicide & Topguard EQ Fungicide
- Topguard “5 on 5”
- Affinity Broadspec Herbicide

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Outstanding Early Disease Protection and Proven Weed Control for Wheat in One Convenient Tank-Mix Application at Green Up

Features and Benefits:

- Convenient tank-mix timing: Manage early spring diseases with Topguard® fungicide and control broadleaf weeds with Affinity® Broadspec herbicide with TotalSol® soluble granules during green up (Feekes 3-7).
- Combines the benefits of a highly systemic and long-lasting triazole fungicide with a market-leading, broadleaf herbicide with rotational flexibility.
- Topguard fungicide is upwardly systemic to provide protection of newly emerging wheat tissue after application, suppressing disease and protecting vegetative growth prior to standard flag leaf timing fungicide application.
- Follow with Topguard or Topguard EQ fungicide at flag leaf for superior protection and maximum yields. This program approach to managing diseases through the whole growing season is referred to as **Topguard “5 on 5.”**

Variety: Everest
No fungicide control
Ashland Bottoms 6/2/2021



Variety: Everest
Topguard “5 on 5”
Ashland Bottoms 6/2/2021



Topguard® and Topguard® EQ Fungicide Plus Affinity® Broadspec Herbicide Technical Information:

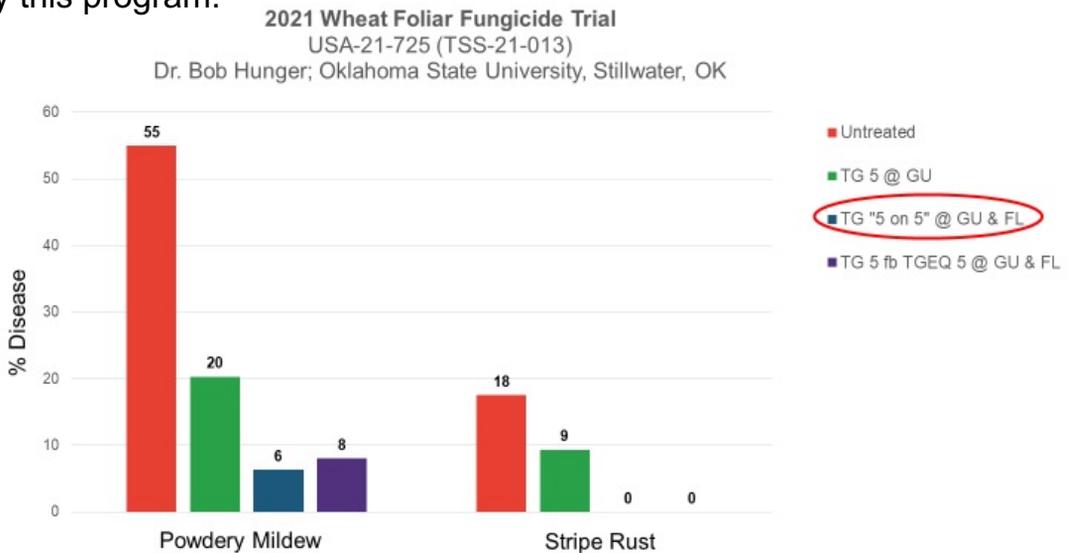
Product Attributes	TOPGUARD FUNGICIDE	TOPGUARD EQ FUNGICIDE	AFFINITY BROADSPEC HERBICIDE
Active Ingredients:	Flutriafol	Flutriafol + Azoxystrobin	Thifensulfuron-methyl + Tribenuron-methyl
Class:	DMI: FRAC Group 3	DMI & QoI: FRAC Group 3 and 11	ALS: HRAC Group 2
Rates:	10-14 fl. oz./A	4-7 fl. oz./A	0.4-1.0 oz./A
REI	12 hours	12 hours	12 hours
PHI	30 days grain; 15 days hay; 0 days forage	30 days grain; 15 days hay; 7 days forage	45 days
Diseases/ Weeds Controlled:	Common rust, stripe rust, powdery mildew and leaf blotch.	Leaf rust, powdery mildew, septoria leaf and glume blotch, stem rust, stripe rust and tan spot.	Henbit, common chickweed, wild buckwheat, mustards, and many other broadleaf weeds.
Application Guidelines:	May be applied via air or ground. Apply in a minimum of 10 gallons of spray solution per acre by ground and a minimum 5 gallons of spray solution by air. For broader weed spectrum, add MCP (amine or ester) at 6-10 fl. oz./A. Use of a non-ionic surfactant @ 1/4-1/2% is recommended to be added to improve weed/disease control.		



- Reliable control of common chickweed, henbit, wild buckwheat, mustards and over 60 other broadleaf weed species.
- Formulated with **TotalSol® soluble granules technology**, a patented formulation that dissolves completely, getting more active ingredient on the weeds for faster, better control and leaving less residue in the tank for easier clean-out and faster spray operation.

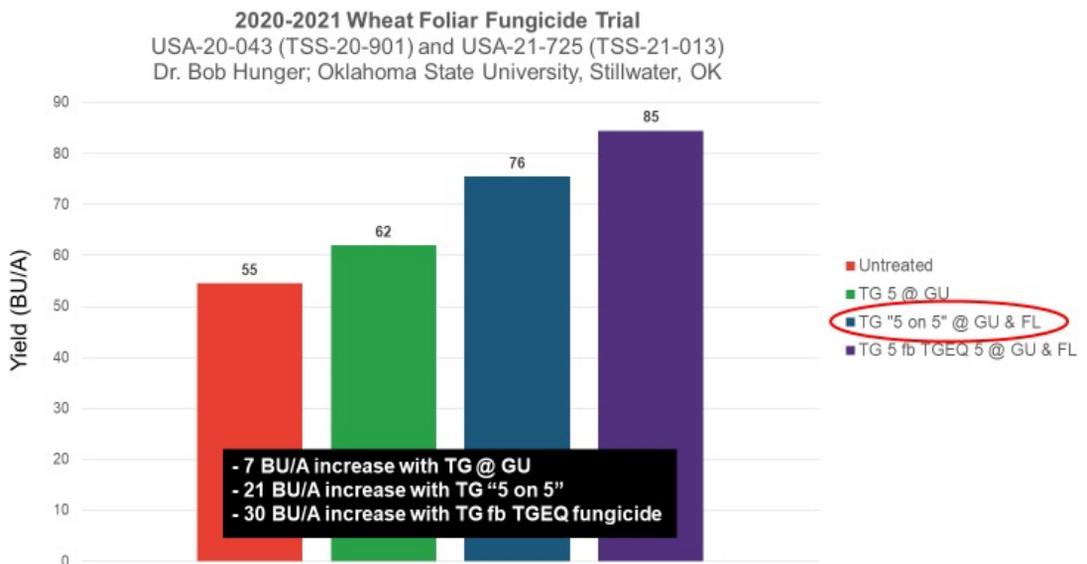
Research Trials:

Research trials have shown that Topguard® fungicide at 5 fl. oz./A applied at green up (Feekes 3-7) and then followed by Topguard fungicide at 5 fl. oz./A applied at flag leaf (Feekes 8-10)¹ provides affordable, effective control of important wheat diseases and, ultimately, increases yields. This program approach to managing diseases through the whole growing season is referred to as **Topguard “5 on 5.”** Diseases such as common and stripe rust, powdery mildew, leaf and glume blotches, and tan spot¹ are controlled by this program.



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TG = Topguard® fungicide; TG "5 on 5" = Topguard "5 on 5"; TGEQ = Topguard EQ fungicide; GU = Green Up application made on March 28, 2021; FL = Flag Leaf April 21, 2021. Variety: Bulkit; Planting Date: October 20, 2020; Seeding Rate: 90 lb/A; Harvest Date: June 11, 2021. Powdery mildew rating made 4-6-21 and 5-7-21.



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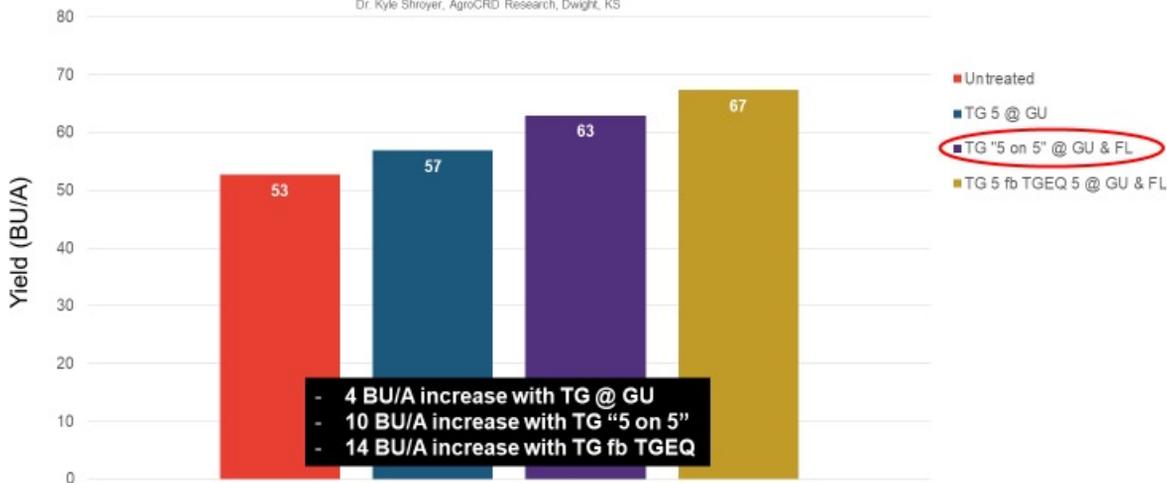
TG = Topguard® fungicide; TG "5 on 5" = Topguard "5 on 5"; TGEQ = Topguard EQ fungicide; GU = Green Up application made on March 11, 2020, and March 28, 2021; FL = Flag Leaf application made on April 10, 2020, and April 21, 2021. Variety: Bulkit; Planting Date: October 3, 2019, and October 20, 2020; Seeding Rate: 180 lb/A and 90 lb/A; Harvest Date: June 2, 2020, and June 11, 2021.

¹ Please see the Topguard fungicide FIFRA SECTION 2(e) recommendation for early disease management in winter wheat in Colorado, Kansas, Missouri, Montana, Nebraska, North Dakota, Oklahoma and South Dakota.

Research Trials:

2020-2021 Wheat Foliar Fungicide Trial (N=6)

USA-20-043 (TSS-20-901 & 902); USA-21-725 (TSS-21-013 & 015 & 016 & 017)
 Dr. Bob Hunger, Oklahoma State University, Stillwater, OK
 Dr. Jessica Rupp, Kansas State University, Manhattan, KS
 Dr. Shane Hennigh, Southwind Ag Research and Consulting, Hillsboro, KS
 Dr. Kelsey Onofre, Kansas State University, Bellefonte, KS
 Dr. Kyle Shroyer, AgroCRD Research, Dwight, KS



TG = Topguard® fungicide; TG "5 on 5" = Topguard "5 on 5"; TGEQ = Topguard EQ fungicide; GU = Green Up application made in March-April 2021; FL = Flag Leaf application made in April-May 2021; Planting was in October 2020; Harvest Date: June-July 2021.

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Topguard® Fungicide "5 on 5" + Affinity® Broadspec Herbicide Program:

Delivers Affordable, Effective Control of Yield-Robbing Diseases and Weeds in Wheat Throughout the Growing Season

- ✓ **Step 1:** Apply Topguard fungicide at 5 fl. oz./A + Affinity Broadspec herbicide at 0.4-1.0 oz./A at green up¹ to provide early-season disease and broadleaf weed control. The highly systemic fungicide moves into the new leaves reducing disease pressure and the long-lasting herbicide keeps yield robbing weeds away.
- ✓ **Step 2:** Apply Topguard fungicide at 5 fl. oz./A at flag leaf¹ to provide late-season disease control, increase plant health and maximize yields.

If the wheat variety is highly disease susceptible or severe disease pressure exists, then the flag leaf application may need to be Topguard EQ fungicide at 5-7 fl. oz./A to maximize disease control and yields.



¹Please see the Topguard fungicide FIFRA SECTION 2(ee) recommendation for early disease management in winter wheat in Colorado, Kansas, Missouri, Montana, Nebraska, North Dakota, Oklahoma and South Dakota.