




Greenbugs in Winter Wheat


Greenbugs have been seen in many fields in SW Oklahoma and many producers are considering control measures. If you want to make a decision based in science and production economics you can use the OSU Glance and Go Sampling method. It can be found at <http://agweather.mesonet.org/crops/default.html>. At this site go to **crops** and select **OSU Greenbug Adviser** then answer the questions that follow.

I have used the Glance and Go Sampling program for Greenbugs in Winter Wheat for Altus, Oklahoma in January with the control cost of \$10 per acre and the price of wheat of \$6 and \$10 per bushel and the results are shown below:

Total tillers with 1 or more greenbugs <input checked="" type="checkbox"/>	● Mummies	☒ Infested Tillers 		
	Don't Treat ▼	Don't Treat ▼	Keep Sampling ▼	Treat ▼
▶ /15 ▶	4 or more	6 or less	7-13	14 or more
▶ /30 ▶	4 or more	16 or less	17-24	25 or more
▶ /45 ▶	5 or more	27 or less	28-34	35 or more
▶ /60 ▶	6 or more	37 or less	38-44	45 or more
▶ /75 ▶	7 or more	48 or less	49-55	56 or more
▶ /90 ▶	8 or more	58 or less	59-65	66 or more

Cost per acre \$10.00

Bushel price \$6.00

Total tillers with 1 or more greenbugs ☒	● Mummies	☒ Infested Tillers 		
	Don't Treat ▼	Don't Treat ▼	Keep Sampling ▼	Treat ▼
▶ /15 ▶	4 or more	5 or less	6-11	12 or more
▶ /30 ▶	4 or more	14 or less	15-20	21 or more
▶ /45 ▶	5 or more	23 or less	24-29	30 or more
▶ /60 ▶	6 or more	32 or less	33-38	39 or more
▶ /75 ▶	7 or more	41 or less	42-47	48 or more
▶ /90 ▶	8 or more	51 or less	52-56	57 or more

Cost per acre \$10.00

Bushel price \$10.00

In the first table using \$6 per bushel wheat and \$10 per acre for control, if you inspect 15 tillers and find 12 or more infested with greenbugs (or if you inspect 90 tillers and find 57 or more infested tillers) it would be economically rewarding to implement control. A similar action level is shown in the 2nd table except when using wheat that sells for \$10 per bushel it takes 12 or more infested tillers out of 15 or 57 or more infested tillers out of 90 tillers inspected to be economically rewarding.

It is easy to see that very few greenbugs in your wheat can trigger the use of chemical control due to the projected prices for wheat in 2008. It sounds as though Lorsban and Dimethioate are the most common products being used this year with Dimethioate being used in the presence of mites and aphids. Consult with your OSU County Extension Service for details on products and their proper use.

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