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## General Area Crop Progress

Conditions have changed from too dry to too wet. A small amount of cotton has yet to be harvested and wheat planting is behind schedule. Some producers are preparing to broadcast seed to cover more acres in less time. The earlier planted wheat is emerging and is being monitored for Hessian fly. Hessian flies are very difficult to monitor because of their small size and no pheromone to attract them to traps is available. Wheat seedlings can be monitored for fly eggs and larva with careful dissection and magnification.

Hessian fly eggs are being found on seedling wheat leaves throughout the Blacklands. In Hunt county the highest egg counts are being found in fields with standing wheat stubble. Volunteer wheat seedlings in those conditions in Hunt county show eggs on 80% of seedlings. Adjacent fields that have been plowed, and seeded with buried residue show 20% or less infestation. Adjacent fields that emerged later in November and were rotated from other crops do not have any eggs.



Figure 1. Wheat stubble with Hessian fly pupa and emerged wheat seedlings, left, A seedling wheat leaf with Hessian fly eggs under 15X magnification, right.

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Note that Hessian fly eggs and may not survive to be larvae but it does show the that flies are out and infesting wheat. Some research from North Carolina shows the only benefit to spraying for flies at egg lay was under conditions favorable for the flies: October plantings, a susceptible variety, and no seed treatment. They used a pyrethroid and combined it with a fungicide. Jim Swart did some spraying many years ago with several products and did not see any benefit. The conditions and timing would need to be very specific to benefit. The North Carolina State University Small Grains page information can be found here <https://smallgrains.ces.ncsu.edu/2017/11/hessian-fly-adults-are-active-should-you-spray-2/> Wheat Variety Ratings for Hessian fly resistance from Howe are on page 2 and others have been posted in past newsletters, on the TAMU variety testing page, and were presented at wheat field days.

We will address Hessian Fly IPM at our Ag Technology Conference on Dec. 8th 2022. The agenda a registration follows in this newsletter.

Hessian Fly Ratings of Wheat Varieties at Howe, TX 2022

Howe, TX 2022	Rating	pupa/tiller	% dead tillers	lodging score
AGS 2024	R	0.06 a	36	3.3
AGS 2038	MS	1.42 abc	48	3.7
AGS 2055	R	0.52 ab	44	2
AgriMaXX 492	S	0.27 a	49	4.7
AgriPro SY 547	MS	1.3 abc	49	2.7
AgriPro SY 747	S	0.43 ab	66	4.3
AgriPro SY Richie	S	0.37 ab	61	5.7
AgriPro SY Viper	S	0.08 a	48	6.3
Blackland 2034	S	2.08 de	59	4.3
Blackland 2166	R	0 a	49	1
Blackland 2167	R	0.36 ab	36	2.3
Blackland 2174	S	2.6 de	58	6.3
Blackland 2175	S	0.15 a	42	5
Blackland 2184	S	3.3 e	70	5.3
Dyna-Gro 9002	R	0 a	27	1
Dyna-Gro 9120	MR	0.24 a	36	4.3
Dyna-Gro 9172	R	0.11 a	33	3.3
Dyna-Gro 9393	R	0.1 a	31	2
Dyna-Gro 9701	MR	0.37 ab	41	3.3
Dyna-Gro 9811	R	0.09 a	39	1.7
Dyna-Gro WX20738	S	1.68 cde	63	3.7
Go Wheat GW 2032	R	0.09 a	37	1.3
Go Wheat GW 6000	R	0.35 ab	33	2.7
LANC 11558-33	R	0.03 a	46	1
Pioneer 25R40	S	1.42 abc	49	3.7
Pioneer 25R74	R	0 a	37	1
TX16DDH579	R	0.09 a	34	2
TX17D2337	R	0.06 a	52	1.7
TX18D3212	R	0.06 a	34	2.7
USG 3118	R	0.06 a	43	1
USG 3329	S	2.19 cd	64	5.3
USG 3352	S	1.02 abc	60	6.3
USG 3472	R	0.07 a	41	3.3
USG 3536	R	0.13 a	42	3.3
USG 3640	R	0.11 a	21	2.3
USG 3783	R	0.35 ab	29	2
USG 3895	S	1.13 abc	47	5
Monsanto WB-4418	R	0.18 a	43	1.3
Monsanto WB-4523	R	0 a	20	1.3
Monsanto WB-4699	S	1.23 abc	58	6.7
TAM 114	R	0.19 a	44	1.7
TAM 205	S	0.45 ab	63	7.7
TAM 304	R	0.08 a	31	1.3
Mean		0.58	44	3.28

Lodging Score 1 = Best 10 = flat on ground



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# Calendar

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Texas Plant Protection Conference—Bryan Dec. 6 & 7, 2022  
Ag Technology Conference—TAMU-Commerce Dec. 8, 2022  
Texas Wheat Producers Board Election Jan 6-20, 2023  
North Texas Pest Management CEU Conference—Sherman Jan. 30, 2023  
Small Land Owner Conference—Farmersville June 2, 2023



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