

Trial ID:CM25N01

BlackCreek Research

2025 C&M Seeds Hard Red Winter Wheat Fertilizer Program

Location: HB Block 1

Wheat Variety _Adrianus_ ; Planted _12-Oct-2024 at 1.8_m s/ac; Harvested _6-Aug-2025

Plot Size: 3m x 15m x 4 reps Harvested plot dimensions: 1.25m wide x 15m long



Knowledge grows



Trt #	Treatment	Rate	Timing	Rating Date	Rating Type	06-Aug	06-Aug	06-Aug	06-Aug	06-Aug	Description					
				Collection Type	Statistics	Moisture	Yield	Protein	Test Weight	Falling #						
												%	bu/ac	%	g/0.5L	
												Sample	Plot	Sample	Sample	Sample
				LSD p=0.05	LSD p=0.05	LSD p=0.05	LSD p=0.05	LSD p=0.05								
1	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B	13.0	-	111.5	e	11.08	c	368.6	e	423	c	Bare Bones, one shot only 80 N as liquid. Low Yield, Low Protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
2	28% UAN	160 lbs N & 19 lbs S/ac	Green Up (BBCH 13-22)	B	12.7	-	128.5	b	13.30	b	373.9	a-d	473	a	One Shot Early as liquid. Good Yield but Low Protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
3	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B	12.7	-	118.5	d	13.60	ab	371.7	cde	461	ab	Split App using Liquid. 2nd app at Z32. Will usually make strong yield, but not usually very strong protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Early stem elongation (BBCH 31-32)	C												
	ATS	combined	Early stem elongation (BBCH 31-32)	C												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
4	AMM SU	95 lbs/ac (20N 23S)	Extra Early Green Up	A	12.7	-	130.3	b	13.60	ab	372.5	b-e	443	bc	Same as TRT#3, but with Early AMM SU booster broadcast. (NET 175N, 34S)	
	28% UAN	75 lbs N	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Early stem elongation (BBCH 31-32)	C												
	ATS	combined	Early stem elongation (BBCH 31-32)	C												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
5	MAP	100 lbs/ac	Extra Early Green Up	A	12.7	-	126.1	bc	13.83	ab	372.4	b-e	477	a	Same as TRT#3, but with Early MAP booster broadcast.	
	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B												
	ATS	combined	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Early stem elongation (BBCH 31-32)	C												
	ATS	combined	Early stem elongation (BBCH 31-32)	C												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
6	AMM SU	95 lbs/ac (20N 23S)	Extra Early Green Up	A	12.7	-	127.5	bc	13.63	ab	373.3	a-d	464	ab	Same as TRT#7, but with Early AMM SU booster broadcast. (NET 180N, and 42S) **should have left out the AMS liquid in B app.**	
	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B												
	ATS	combined	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	ATS	combined	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
7	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B	12.7	-	122.1	cd	13.73	ab	370.0	de	432	ab	Split App using Liquid. 2nd app at FLAG. High Burn Risk. Will usually make strong yield, and decent protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	ATS	combined	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
8	MAP	100 lbs/ac	Extra Early Green Up	A	12.6	-	126.0	bc	13.78	ab	372.1	b-e	484	a	Same as TRT#7, but with Early MAP booster broadcast.	
	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B												
	ATS	combined	Green Up (BBCH 13-22)	B												
	28% UAN	80 lbs N & 11 lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	ATS	combined	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
9	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B	12.6	-	127.4	bc	13.53	ab	374.7	abc	475	a	Split App. 2nd app using AMIDAS broadcast at Flag Leaf (heads cracking from boot). No Burn Risk. Usually TOP yields with BEST Protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	Amidas 200lb	80 lbs N & 11lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
10	MAP	100 lbs/ac	Extra Early Green Up	A	12.7	-	139.9	a	13.93	ab	376.3	abc	456	ab	Same as TRT#9, but with Early MAP booster broadcast.	
	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B												
	ATS	combined	Green Up (BBCH 13-22)	B												
	Amidas 200lb	80 lbs N & 11lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												
11	28% UAN	80 lbs N & 8 lbs S/ac	Green Up (BBCH 13-22)	B	12.7	-	125.3	bc	13.33	b	377.5	a	437	bc	Split App 140N. 2nd app less AMIDAS broadcast at Flag Leaf (heads cracking from boot). No Burn Risk. Usually OK yields, OK Protein.	
	ATS	combined	Green Up (BBCH 13-22)	B												
	Amidas 150lb	60 lbs N & 8lbs S/ac	Flag leaf emergence (BBCH 41)	D												
	Miravis Ace	0.4047 L/ac	Early Flowering (BBCH 61)	E												

Application Timings:										
Application Information:										
Date / Time	Wheat Timing / Stage (BBCH)	Appl. Code	Comment	Height (cm)	Leaves	Tillers	Air Temp - C	Humidity	Soil Temp - C	Soil Condition
25-Apr / 2:30 pm	Green Up (BBCH 24-26)	A	MAP App	8-10	3-4	2-6	10.2	47.6	12	Wet
7-May / 11:30 am	Early stem elongation (BBCH 30-31)	B	1st N + S App	20-25	6+	2-6	19.3	68.8	15	Wet
14-May / 11:40 am	Late Flag leaf emergence (BBCH 32-33)	C	2nd N + S App	40-50	6+	2-6	24.4	45.2	20	Moist
26-May / 4:30 pm	Boot Splitting (BBCH 49-55)	D	3rd N + S App	65-90	6+	2-6	16.8	41.1	22	Moist
14-Jun / 1:00 pm	Early Flowering (BBCH 60-61)	E	Blanket Fungicide App	100	6+	2-6	14.9	36.5	15	Moist

Soil Information			
OM:	3.3	%	
pH:	7.7		
CEC:	15.0	meq/100g	
P	21	ppm	
K	84	ppm	
Sandy Loam	Sand	57.0 %	
	Silt	30.0 %	
	Clay	13.0 %	