



Mar-20-2024 (Verification)

ARM 2024.0 Spray/Seeding Plan Page 1 of 10

GDM Solutions, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat

Title No. 2:

Trial ID: Verification

Official Trial ID:

Cooperator Trial ID:

Protocol ID: Verification_1

Location: Gembloux

Trial Year: 2013

Study Director: R.E. Ceurch

Sponsor Contact:

Investigator: François Mercken

Reps: 4

Plots: 2.5 by 10 meters

Appl. Amount: 200 L/ha

Mix Size: 2.15 L (total for 4 plots; minimum=2 L, overage=1.50 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Lot Type	Specific Gravity	Rate Rate Unit	Appl Code	Appl Amount Unit	Amount Mix Unit	Mix Size Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check						ABC					104	204	301	403
2	ERO	200 G/L	L	SL	1.13	0.5 l/ha	ABC	200 L/HA	2.15 L		6.074 g/mx	101	201	304	402
3	TUB	250 G/L	L	EC		1 l/ha	ABC	200 L/HA	2.15 L		10.75 mL/mx	101	201	302	405
4	ZIRAMO	760 G/KG	WG			0.5 kg/ha	ABC	200 L/HA	2.15 L		5.375 g/mx	105	202	305	401
5	MICO 60	600 G/L	L	EC		0.6 l/100 l	AB	200 L/HA	2.15 L		12.9 mL/mx	102	201	303	404
	STIC 2000	100 %V/V	EW		1.1	1 % v/v	AB	200 L/HA	2.15 L		23.65 g/mx	102	201	303	404

Sort Order: Treatment



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Location: Gembloux

Trial Year: 2013

Study Director: R.E. Ceurch

Sponsor Contact:

Investigator: François Mercken

Trt # Equation ID	Calculated Amount
2 prod/area $2.15 * 0.5 * 1000 * (10000 / 10000) / 200 * 1.13$	6.074 g/mx
3 prod/area $2.15 * 1 * 1000 * (10000 / 10000) / 200$	10.75 mL/mx
4 prod/area $2.15 * 0.5 * 1000 * (10000 / 10000) / 200$	5.375 g/mx
5 /100 gal-L $2.15 * 0.6 * 1000 / (200 * (100 / 200)) / 1$	12.9 mL/mx
5 percent $2.15 * 1 * 10 * 1.1$	23.65 g/mx

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
20.156	mL	ERO	200	GAL	SL	
40.313	mL	4	250	GAL	EC	
20.156	g	ZIRAN	760	GAKG	WG	
32.250	mL	MICO 60	600	GAL	EC	
53.750	mL	STIC 2000	100	%V/V	EW	

* 'Per area' calculations based on application amount= 200 L/HA, mix size= 2.15 L (mix size basis).

* Product amount calculations increased 25 % for overage adjustment.

* 'Per volume' calculations use spray volume= 200 L/HA, mix size= 2.15 L.

* Adjusted for multiple applications in treatment list.

**GDM Solutions, Inc.****An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat**

Title No. 2:
 Trial ID: Verification Official Trial ID: Cooperator Trial ID:
 Protocol ID: Verification_1 Location: Gembloux Trial Year: 2013
 Study Director: R.E. Cearch Sponsor Contact:
 Investigator: François Mercken

Rating Date	May-1-2013	May-1-2013	May-13-2013	May-13-2013	Jun-18-2013	Jun-18-2013
Part Rated	LEAF, C	PLANT, C	LEAF3, P	LEAF3, P	LEAF3, P	LEAF3, P
Rating Type	PHYGEN	MGOR	PESSEV	PESSEV	PESSEV	PESSEV
Rating Unit	%	%	%	%UNCK	%	%UNCK
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -	10 LEAF	0, 100, -	10 LEAF
Sample Size			10 LEAF	10 LEAF	10 LEAF	10 LEAF
Reporting Basis						
Number of Subsamples	1	1	10	1	10	1
Crop Type, Code	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW
BBCH Scale	BCER	BCER	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Crop Stage Scale			BBCH	BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max			32, -, -	32, -, -	59, -, -	59, -, -
Pest Type			D, Disease	D, Disease	D, Disease	D, Disease
Pest Code			SEPTTR	SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name			Zymoseptoria >	Zymoseptoria >	Zymoseptoria >	Zymoseptoria >
Pest Name			Speckled leaf>	Speckled leaf>	Speckled leaf>	Speckled leaf>
Pest Stage Scale			DESC	DESC	DESC	DESC
Pest Density			4.42 %	4.42 %	8.25 %	8.25 %
Rating Timing			1	1	2	2
Days After First/Last Applic.	16, 16	16, 16	28, 28	28, 28	64, 15	64, 15
Trt-Eval Interval	16 D-A-A	16 D-A-A	28 D-A-A	28 D-A-A	15 D-A-B	15 D-A-B
Plant-Eval Interval	213 DP-1	213 DP-1	225 DP-1	225 DP-1	261 DP-1	261 DP-1
ARM Action Codes				TAB[3] EC		TAB[5] EC
Number of Decimals			2	3	2	3
Footnote Number						
Trt Treatment	1	2	3	4	5	6
Rate						
Rate Unit						
Appl Code						
1 Untreated Check ABC	0.0 a 0.0 Min 0.0 Max 0.0 StDev	100.0 a 100.0 Min 100.0 Max 0.0 StDev	4.55 a 0.00 Min 12.00 Max 2.80 StDev	0.000 0.000 Min 0.000 Max 0.000 StDev	8.25 a 0.00 Min 15.00 Max 3.93 StDev	0.000 0.000 Min 0.000 Max 0.000 StDev
2 ERO 0.5 l/ha ABC	0.0 a 0.0 Min 0.0 Max 0.0 StDev	100.0 a 100.0 Min 100.0 Max 0.0 StDev	57.982 a 15.217 Min 80.488 Max 29.495 StDev	1.83 b 0.00 Min 7.00 Max 1.95 StDev	71.651 a 36.175 Min 90.398 Max 24.392 StDev	
3 TUB 1 l/ha ABC	0.0 a 0.0 Min 0.0 Max 0.0 StDev	100.0 a 100.0 Min 100.0 Max 0.0 StDev	67.058 a 52.174 Min 88.889 Max 17.378 StDev	1.46 b 0.00 Min 8.00 Max 1.67 StDev	80.069 a 67.512 Min 87.026 Max 8.599 StDev	
4 ZIRAMO 0.5 kg/ha ABC	0.0 a 0.0 Min 0.0 Max 0.0 StDev	100.0 a 100.0 Min 100.0 Max 0.0 StDev	1.83 b 0.00 Min 10.00 Max 2.80 StDev	59.518 a 46.667 Min 72.000 Max 10.388 StDev	2.30 b 0.00 Min 6.20 Max 2.11 StDev	70.596 a 50.922 Min 90.571 Max 17.002 StDev
5 MICO 60 STIC 2000 0.6 l/100 l AB 1 % v/v AB	0.0 a 0.0 Min 0.0 Max 0.0 StDev	100.0 a 100.0 Min 100.0 Max 0.0 StDev	39.923 a 17.073 Min 52.174 Max 15.595 StDev	1.67 b 0.00 Min 6.20 Max 1.64 StDev	71.490 a 21.889 Min 94.175 Max 33.355 StDev	
LSD P=.05			1.264	33.2297	2.598	21.4619
Standard Deviation	0.00	0.00	0.821	20.7739	1.686	13.4172
CV	0.0	0.0	32.76	37.02	54.39	18.27
Levene's F	0.00*	0.00*	1.153	0.614	3.29*	0.389
Skewness			0.4943	-0.6128	1.8499*	-1.4879*
Kurtosis			-0.8027	0.3826	2.6407*	1.5309
Replicate F	0.000	0.000	0.757	0.529	0.625	8.502
Replicate Prob(F)	1.0000	1.0000	0.5394	0.6733	0.6123	0.0054
Treatment F	0.000	0.000	8.877	1.227	11.778	0.437
Treatment Prob(F)	1.0000	1.0000	0.0014	0.3555	0.0004	0.7318

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Column 4: TAB[3] = Abbott (% of Untreated)[3]
 Column 6: TAB[5] = Abbott (% of Untreated)[5]
 Column 8: TAB[7] = Abbott (% of Untreated)[7]

**GDM Solutions, Inc.****An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat**

Title No. 2:
 Trial ID: Verification Official Trial ID: Cooperator Trial ID:
 Protocol ID: Verification_1 Location: Gembloux Trial Year: 2013
 Study Director: R.E. Cearch Sponsor Contact:
 Investigator: François Mercken

Rating Date	Jul-2-2013	Jul-2-2013	Jul-15-2013	Aug-7-2013	Aug-7-2013	Aug-7-2013
Part Rated	LEAF2, P	LEAF2, P	LEAF2, P	GRAIN, C	GRAIN, C	GRAIN, C
Rating Type	PESSEV	PESSEV	AREA	YIELD	MOICON	YIELD
Rating Unit	%	%UNCK	%AREA	KG	%	Q-MET
Rating Min/Max/Interval	0, 100, -				0, 100, -	
Sample Size	10 LEAF	10 LEAF	5 LEAF	1 PLOT		1 HA
Reporting Basis						
Number of Subsamples	10	1	5	1	1	1
Crop Type, Code	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW
BBCH Scale	BCER	BCER	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max	70, -, -	70, -, -	84, -, -	99, -, -	99, -, -	99, -, -
Pest Type	D, Disease	D, Disease	D, Disease			
Pest Code	SEPTTR	SEPTTR	ZZVVFY			
Pest Scientific Name	Zymoseptoria >	Zymoseptoria >	Complex of kn>			
Pest Name	Speckled leaf>	Speckled leaf>	Complex, dif>			
Pest Stage Scale	DESC	DESC	DESC			
Pest Density	15.5 %	15.5 %	1.75 %			
Rating Timing	3	3	4	5	5	5
Days After First/Last Applic.	78, 29	78, 29	91, 7	114, 30	114, 30	114, 30
Trt-Eval Interval	29 DA-B	29 DA-B	7 DA-C	30 DA-C	30 DA-C	30 DA-C
Plant-Eval Interval	275 DP-1	275 DP-1	288 DP-1	311 DP-1	311 DP-1	311 DP-1
ARM Action Codes		TAB[7] EC				TY1
Number of Decimals	2	3	2	2	1	3
Footnote Number			2			1
Trt Treatment	7	8	9	10	11	12
No. Name						
1 Untreated Check	ABC					
	15.51 a	0.000	2.50 b	7.55 b	11.7 a	79.254 b
	8.00 Min	0.000 Min	0.00 Min	7.10 Min	11.3 Min	74.670 Min
	30.50 Max	0.000 Max	20.00 Max	8.25 Max	12.1 Max	86.176 Max
	5.67 StDev	0.000 StDev	5.26 StDev	0.50 StDev	0.3 StDev	4.975 StDev
2 ERO	0.5 l/ha ABC					
	1.74 b	88.744 ab	22.50 ab	8.20 a	11.6 a	86.157 a
	0.00 Min	85.337 Min	0.00 Min	7.75 Min	11.2 Min	80.769 Min
	6.00 Max	95.090 Max	80.00 Max	8.95 Max	12.3 Max	94.446 Max
	1.52 StDev	4.395 StDev	26.53 StDev	0.53 StDev	0.5 StDev	5.876 StDev
3 TUB	1 l/ha ABC					
	0.83 b	95.616 a	33.00 a	8.16 a	12.2 a	85.119 a
	0.00 Min	89.544 Min	0.00 Min	7.75 Min	11.4 Min	81.598 Min
	4.30 Max	99.422 Max	90.00 Max	8.70 Max	13.0 Max	89.947 Max
	1.00 StDev	4.538 StDev	31.81 StDev	0.39 StDev	0.7 StDev	3.491 StDev
4 ZIRAMO	0.5 kg/ha ABC					
	85.108 ab	29.00 ab	8.20 a	12.1 a	85.620 a	
	77.384 Min	0.00 Min	7.70 Min	11.7 Min	80.797 Min	
	98.092 Max	80.00 Max	8.50 Max	13.3 Max	89.192 Max	
	2.28 StDev	9.082 StDev	26.98 StDev	0.36 StDev	0.8 StDev	3.511 StDev
5 MICO 60	0.6 l/100 l AB					
STIC 2000	1 % v/v AB					
	3.88 b	74.085 b	17.50 ab	8.16 a	12.5 a	84.779 a
	0.00 Min	52.590 Min	0.00 Min	7.40 Min	11.1 Min	77.034 Min
	13.20 Max	90.686 Max	90.00 Max	9.10 Max	15.0 Max	91.919 Max
	3.18 StDev	17.218 StDev	25.11 StDev	0.80 StDev	1.7 StDev	7.442 StDev
LSD P=.05	3.146	14.2372	19.666	0.360	1.46	3.6576
Standard Deviation	0.942	8.9006	12.765	0.233	0.95	2.3740
CV	0.023	10.36	61.07	2.9	7.86	2.82
Levene's F	3.444	2.032	1.28	1.126	1.362	
Skewness	1.7361*	-1.4806*	0.3594	0.1737	2.0681*	0.0812
Kurtosis	2.3213*	2.7562*	-1.0412	-0.5835	5.3045*	-0.6516
Replicate F	4.360	2.287	0.626	22.649	0.945	20.694
Replicate Prob(F)	0.0270	0.1474	0.6121	0.0001	0.4494	0.0001
Treatment F	35.175	4.085	3.466	5.873	0.695	5.587
Treatment Prob(F)	0.0001	0.0437	0.0421	0.0074	0.6094	0.0089

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Title No. 2:
 Trial ID: Verification Official Trial ID: Cooperator Trial ID:
 Protocol ID: Verification_1 Location: Gembloux Trial Year: 2013
 Study Director: R.E. Ceairch Sponsor Contact:
 Investigator: François Mercken

Rating Date	Aug-7-2013
Part Rated	GRAIN, C
Rating Type	YIELD
Rating Unit	%UNCK
Rating Min/Max/Interval	
Sample Size	
Reporting Basis	
Number of Subsamples	1
Crop Type, Code	C, TRZAW
BBCH Scale	BCER
Crop Scientific Name	Triticum aest>
Crop Name	Winter wheat
Crop Stage Scale	BBCH
Crop Stage Majority/Min/Max	99, -, -
Pest Type	
Pest Code	
Pest Scientific Name	
Pest Name	
Pest Stage Scale	
Pest Density	
Rating Timing	5
Days After First/Last Applic.	114, 30
Trt-Eval Interval	30 DA-C
Plant-Eval Interval	311 DP-1
ARM Action Codes	@UP OCR
Number of Decimals	2
Footnote Number	1
Trt Treatment	Rate Appl
No. Name	Rate Unit Code
1 Untreated Check	ABC
	100.00 b 100.00 Min 100.00 Max 0.00 StDev
2 ERO	0.5 l/ha ABC
	108.68 a 108.07 Min 109.60 Max 0.71 StDev
3 TUB	1 l/ha ABC
	107.51 a 104.37 Min 109.83 Max 2.53 StDev
4 ZIRAMO	0.5 kg/ha ABC
	108.16 a 103.50 Min 111.70 Max 3.43 StDev
5 MICO 60 STIC 2000	0.6 l/100 l AB 1 % v/v AB
	106.90 a 103.17 Min 114.01 Max 4.98 StDev
LSD P=.05	4.640
Standard Deviation	3.012
CV	2.83
Levene's F	2.005
Skewness	-0.1934
Kurtosis	-0.872
Replicate F	0.803
Replicate Prob(F)	0.5161
Treatment F	5.584
Treatment Prob(F)	0.0089



GDM Solutions, Inc.

An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat

Title No. 2:

Trial ID: Verification	Official Trial ID:	Cooperator Trial ID:
Protocol ID: Verification_1	Location: Gembloux	Trial Year: 2013
Study Director: R.E. Ceirach	Sponsor Contact:	
Investigator: François Mercken		

Column 9 Footnote: % Green Leaf Area

Column 12: $TY1 = 10.10101 * [C10] * (100 - [C11]) / 85$

Footnote: Adjusted at 15 % Moisture

Column 13: $@UPOCR = 8100 * @AvgSub([12]) / [TUC12]$

Footnote: Adjusted at 15 % Moisture

Could not calculate LSD (% mean diff) for columns 1,2 because error mean square = 0.

Additional Treatment Information

Rate Unit

L/ha = Liters Product per Hectare (US=GAL/A)[T

kg/ha = Kilograms Dry Product per Hectare (US=kg/A)[

L/100 L = Liters Product per 100 Liters Mix (US=GAL/100 GAL)[X

% V/V = Percent, Volume Product per Volume Mix Basis (US=same)[Z

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Title No. 2:

Trial ID: Verification

Official Trial ID:

Cooperator Trial ID:

Protocol ID: Verification_1

Location: Gembloux

Trial Year: 2013

Study Director: R.E. Ceurch

Sponsor Contact:

Investigator: François Mercken

Rating Date	May-1-2013	May-1-2013	May-13-2013	May-13-2013	Jun-18-2013	Jun-18-2013		
Part Rated	LEAF, C	PLANT, C	LEAF3, P	LEAF3, P	LEAF3, P	LEAF3, P		
Rating Type	PHYGEN	VIGOR	PESSEV	PESSEV	PESSEV	PESSEV		
Rating Unit	%	%	%	%UNCK	%	%UNCK		
Rating Min/Max/Interval	0, 100, -	0, 100, -	0, 100, -		0, 100, -			
Sample Size			10 LEAF	10 LEAF	10 LEAF	10 LEAF		
Reporting Basis								
Number of Subsamples	1	1	10	1	10	1		
Crop Type, Code	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW		
BBCH Scale	BCER	BCER	BCER	BCER	BCER	BCER		
Crop Scientific Name	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>		
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat		
Crop Stage Scale			BBCH	BBCH	BBCH	BBCH		
Crop Stage Majority/Min/Max			32, -, -	32, -, -	59, -, -	59, -, -		
Pest Type			D, Disease	D, Disease	D, Disease	D, Disease		
Pest Code			SEPTTR	SEPTTR	SEPTTR	SEPTTR		
Pest Scientific Name			Zymoseptoria >	Zymoseptoria >	Zymoseptoria >	Zymoseptoria >		
Pest Name			Speckled leaf>	Speckled leaf>	Speckled leaf>	Speckled leaf>		
Pest Stage Scale			DESC	DESC	DESC	DESC		
Pest Density			4.42 %	4.42 %	8.25 %	8.25 %		
Rating Timing			1	1	2	2		
Days After First/Last Applic.	16, 16	16, 16	28, 28	28, 28	64, 15	64, 15		
Trt-Eval Interval	16 DA-A	16 DA-A	28 DA-A	28 DA-A	15 DA-B	15 DA-B		
Plant-Eval Interval	213 DP-1	213 DP-1	225 DP-1	225 DP-1	261 DP-1	261 DP-1		
ARM Action Codes				TAB[3] EC		TAB[5] EC		
Number of Decimals			2	3	2	3		
Footnote Number								
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
1 Untreated Check		ABC 104	0.0	100.0	5.00	0.000	7.53	0.000
		203	0.0	100.0	4.10	0.000	9.79	0.000
		301	0.0	100.0	4.60	0.000	4.34	0.000
		403	0.0	100.0	4.50	0.000	11.33	0.000
		Mean =	0.0	100.0	4.55	0.000	8.25	0.000
2 ERO	0.5 l/ha	ABC 103	0.0	100.0	1.30	74.000	1.82	75.830
		201	0.0	100.0	0.80	80.488	0.94	90.398
		304	0.0	100.0	3.90	15.217	2.77	36.175
		402	0.0	100.0	1.70	62.222	1.79	84.201
		Mean =	0.0	100.0	1.93	57.982	1.83	71.651
3 TUB	1 l/ha	ABC 101	0.0	100.0	2.30	54.000	1.28	83.001
		205	0.0	100.0	1.10	73.171	1.69	82.737
		302	0.0	100.0	2.20	52.174	1.41	67.512
		405	0.0	100.0	0.50	88.889	1.47	87.026
		Mean =	0.0	100.0	1.53	67.058	1.46	80.069
4 ZIRAMO	0.5 kg/ha	ABC 105	0.0	100.0	1.40	72.000	0.71	90.571
		202	0.0	100.0	1.70	58.537	2.27	76.813
		305	0.0	100.0	1.80	60.870	2.13	50.922
		401	0.0	100.0	2.40	46.667	4.07	64.078
		Mean =	0.0	100.0	1.83	59.518	2.30	70.596
5 MICO 60	0.6 l/100 l AB	102	0.0	100.0	2.70	46.000	1.09	85.525
STIC 2000	1 % w/v AB	204	0.0	100.0	3.40	17.073	1.53	84.372
		303	0.0	100.0	2.20	52.174	3.39	21.889
		404	0.0	100.0	2.50	44.444	0.66	94.175
		Mean =	0.0	100.0	2.70	39.923	1.67	71.490

Column 4: TAB[3] = Abbott (% of Untreated)[3]

Column 6: TAB[5] = Abbott (% of Untreated)[5]

Column 8: TAB[7] = Abbott (% of Untreated)[7]

Column 9 Footnote: % Green Leaf Area

Column 12: TY1 = 10.10101*[C10]*(100-[C11])/85

Footnote: Adjusted at 15 % Moisture

Column 13: @UPOCR = 8100*@AvgSub([12])/[TUC12]

Footnote: Adjusted at 15 % Moisture

**GDM Solutions, Inc.****An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat**

Title No. 2:
 Trial ID: Verification Official Trial ID: Cooperator Trial ID:
 Protocol ID: Verification_1 Location: Gembloux Trial Year: 2013
 Study Director: R.E. Ceurch Sponsor Contact:
 Investigator: François Mercken

Rating Date	Jul-2-2013	Jul-2-2013	Jul-15-2013	Aug-7-2013	Aug-7-2013	Aug-7-2013	
Part Rated	LE AF2, P	LEAF2, P	LEAGRE, P	GRAIN, C	GRAIN, C	GRAIN, C	
Rating Type	PESSEV	PESSEV	AREA	YIELD	MOICON	YIELD	
Rating Unit	%	%UNCK	%AREA	KG	%	Q-MET	
Rating Min/Max/Interval	0, 100, -				0, 100, -		
Sample Size	10 LEAF	10 LEAF	5 LEAF			1 HA	
Reporting Basis				1 PLOT			
Number of Subsamples	10	1	5	1	1	1	
Crop Type, Code	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	C, TRZAW	
BBCH Scale	BCER	BCER	BCER	BCER	BCER	BCER	
Crop Scientific Name	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	Triticum aest>	
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat	
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH	BBCH	
Crop Stage Majority/Min/Max	70, -, -	70, -, -	84, -, -	99, -, -	99, -, -	99, -, -	
Pest Type	D, Disease	D, Disease	D, Disease				
Pest Code	SEPTTR	SEPTTR	ZZYYFY				
Pest Scientific Name	Zymoseptoria >	Zymoseptoria >	Complex of kn>				
Pest Name	Speckled leaf>	Speckled leaf>	Complex, dif>				
Pest Stage Scale	DESC	DESC	DESC				
Pest Density	15.5 %	15.5 %	1.75 %				
Rating Timing	3	3	4	5	5	5	
Days After First/Last Applic.	78, 29	78, 29	91, 7	114, 30	114, 30	114, 30	
Trt-Eval Interval	29 DA-B	29 DA-B	7 DA-C	30 DA-C	30 DA-C	30 DA-C	
Plant-Eval Interval	275 DP-1	275 DP-1	288 DP-1	311 DP-1	311 DP-1	311 DP-1	
ARM Action Codes		TAB[7] EC				TY1	
Number of Decimals	2	3	2	2	1	3	
Footnote Number			2			1	
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	7	8	9	10	12
1 Untreated Check	ABC	104	10.23	0.000	3.00	8.25	86.176
		203	13.85	0.000	2.00	7.55	79.223
		301	16.25	0.000	4.00	7.30	76.947
		403	21.71	0.000	1.00	7.10	74.670
		Mean =	15.51	0.000	2.50	7.55	79.254
2 ERO	0.5 l/ha	ABC	103	85.337	22.00	8.95	94.446
		201	0.68	95.090	16.00	8.15	85.616
		304	2.22	86.338	18.00	7.95	83.799
		402	2.56	88.208	34.00	7.75	80.769
		Mean =	1.74	88.744	22.50	8.20	86.157
3 TUB	1 l/ha	ABC	101	98.729	26.00	8.70	89.947
		205	0.08	99.422	46.00	8.10	84.417
		302	0.85	94.769	48.00	8.10	84.513
		405	2.27	89.544	12.00	7.75	81.598
		Mean =	0.83	95.616	33.00	8.16	85.119
4 ZIRAMO	0.5 kg/ha	ABC	105	80.841	18.00	8.50	89.192
		202	2.20	84.116	41.00	8.40	86.545
		305	0.31	98.092	26.00	8.20	85.947
		401	4.91	77.384	31.00	7.70	80.797
		Mean =	2.35	85.108	29.00	8.20	85.620
5 MICO 60	0.6 l/100 l	AB	102	4.85	2.00	9.10	91.919
STIC 2000	1 % w/v	AB	204	1.29	10.00	8.55	90.326
		303	2.46	84.892	16.00	7.60	79.838
		404	6.91	68.171	42.00	7.40	77.034
		Mean =	3.88	74.085	17.50	8.16	84.779

**GDM Solutions, Inc.****An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat**

Title No. 2:
 Trial ID: Verification Official Trial ID: Cooperator Trial ID:
 Protocol ID: Verification_1 Location: Gembloux Trial Year: 2013
 Study Director: R.E. Ceairch Sponsor Contact:
 Investigator: François Mercken

Rating Date Aug-7-2013
 Part Rated GRAIN, C
 Rating Type YIELD
 Rating Unit %UNCK
 Rating Min/Max/Interval
 Sample Size
 Reporting Basis
 Number of Subsamples 1
 Crop Type, Code C, TRZAW
 BBCH Scale BCER
 Crop Scientific Name Triticum aest>
 Crop Name Winter wheat
 Crop Stage Scale BBCH
 Crop Stage Majority/Min/Max 99, -, -
 Pest Type
 Pest Code
 Pest Scientific Name
 Pest Name
 Pest Stage Scale
 Pest Density
 Rating Timing 5
 Days After First/Last Applic. 114, 30
 Trt-Eval Interval 30 DA-C
 Plant-Eval Interval 311 DP-1
 ARM Action Codes @UPOCR
 Number of Decimals 2
 Footnote Number 1

Trt	Treatment	Rate	Appl	
No.	Name	Rate Unit	Code Plot	
1	Untreated Check		ABC 104	100.00
			203	100.00
			301	100.00
			403	100.00
			Mean =	100.00
2	ERO	0.5 l/ha	ABC 103	109.60
			201	108.07
			304	108.90
			402	108.17
			Mean =	108.68
3	TUB	1 l/ha	ABC 101	104.37
			205	106.56
			302	109.83
			405	109.28
			Mean =	107.51
4	ZIRAMO	0.5 kg/ha	ABC 105	103.50
			202	109.24
			305	111.70
			401	108.21
			Mean =	108.16
5	MICO 60	0.6 l/100 l AB	102	106.66
	STIC 2000	1 % v/v AB	204	114.01
			303	103.76
			404	103.17
			Mean =	106.90

**GDM Solutions, Inc.****An assessment of the efficacy of TUB and other fungicides for the control of Septoria Diseases in Winter wheat**

Title No. 2:

Trial ID: Verification

Official Trial ID:

Cooperator Trial ID:

Protocol ID: Verification_1

Location: Gembloux

Trial Year: 2013

Study Director: R.E. Ceurch

Sponsor Contact:

Investigator: François Mercken

Additional Treatment InformationRate Unit

L/ha = Liters Product per Hectare (US=GAL/A)(T

kg/ha = Kilograms Dry Product per Hectare (US=kg/A)

L/100 L = Liters Product per 100 Liters Mix (US=GAL/100 GAL)(X

% V/V = Percent, Volume Product per Volume Mix Basis (US=same)(Z