

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

Trial ID: Verification Location: Gembloux Trial Year: 2013
 Protocol ID: Verification_1 Investigator (Creator): Matthew Elsinger
 Study Director: R.E. Cearch
 Sponsor Contact:

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=150 mL)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Lot Type Code	Specific Gravity	Rate Unit	Appl Code	Appl Amount	Amount Unit	Mix Size	Mix Unit	Amt Product to Measure	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check						ABC						104		301	403
2	ERO	200 G/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	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	EC			0.6 l/100 l	AB	200 L/HA		2.15 L		12.9 mL/mx	102	203	303	404
	STIC 2000	100 %V/V	EW		1.1	1 % v/v	AB	200 L/HA		2.15 L		23.65 g/mx				

Sort Order: Treatment

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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	GA/L	SL	
40.313	mL	4	250	GA/L	EC	
20.156	g	ZIR	760	GA/KG	WG	
32.250	mL	MICO 60	600	GA/L	EC	
53.750	mL	STIC 2000	100	%WWW	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.

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Pest Type			D Disease	D Disease	D Disease
Pest Code			SEPTTR	SEPTTR	SEPTTR
Pest Scientific Name			Zymoseptoria tr>	Zymoseptoria tr>	Zymoseptoria tr>
Pest Name			Speckled leaf b>	Speckled leaf b>	Speckled leaf b>
Crop Type, Code	C TRZAW	C TRZAW	C TRZAW	C TRZAW	C TRZAW
BBCH Scale	BCER	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Rating Date	May-1-2013	May-1-2013	May-13-2013	May-13-2013	Jun-18-2013
SE Group No.	5	6	7	8	9
Part Rated	LEAF C	PLANT C	LEAF3 P	LEAF3 P	LEAF3 P
Rating Type	PHYGEN	MGOR	PESSEV	PESSEV	PESSEV
Rating Unit	%	%	%	%UNCK	%
Sample Size			10	10	10
Reporting Basis			LEAF	LEAF	LEAF
Number of Subsamples	1	1	10	1	10
Crop Stage Scale			BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max			32	32	59
Pest Density			4.42	4.42	8.25
Footnote Number			PERCENT	PERCENT	PERCENT
Rating Timing			1	1	2
Days After First/Last Applic.	16 16	16 16	28 28	28 28	64 15
Trt-Eval Interval	16 DA-A	16 DA-A	28 DA-A	28 DA-A	15 DA-B
Plant-Eval Interval	213 DP-1	213 DP-1	225 DP-1	225 DP-1	261 DP-1
ARM Action Codes	P	P		TAB[3] EC	
Number of Decimals			2	3	2
Trt Treatment	1	2	3	4	5
No. Name					
1 Untreated Check	ABC				
	0.0 a	100.0 a	4.55 a	0.000	8.25 a
	0.0 Min	100.0 Min	0.00 Min	0.000 Min	0.00 Min
	0.0 Max	100.0 Max	12.00 Max	0.000 Max	15.00 Max
	0.0 StDev	0.0 StDev	3.93 StDev	0.000 StDev	3.93 StDev
2 ERO	0.5 l/ha ABC				
	0.0 a	100.0 a	1.00 a	57.982 a	1.83 b
	0.0 Min	100.0 Min	0.00 Min	15.217 Min	0.00 Min
	0.0 Max	100.0 Max	12.00 Max	80.488 Max	7.00 Max
	0.0 StDev	0.0 StDev	2.80 StDev	29.495 StDev	1.95 StDev
3 TUB	1 l/ha ABC				
	0.0 a	100.0 a	1.00 a	67.058 a	1.46 b
	0.0 Min	100.0 Min	0.00 Min	52.174 Min	0.00 Min
	0.0 Max	100.0 Max	6.00 Max	88.889 Max	8.00 Max
	0.0 StDev	0.0 StDev	1.75 StDev	17.378 StDev	1.67 StDev
4 ZIRAMO	0.5 kg/ha ABC				
	0.0 a	100.0 a	1.83 b	59.518 a	2.30 b
	0.0 Min	100.0 Min	0.00 Min	46.667 Min	0.00 Min
	0.0 Max	100.0 Max	10.00 Max	72.000 Max	6.20 Max
	0.0 StDev	0.0 StDev	2.80 StDev	10.388 StDev	2.11 StDev
5 MICO 60	0.6 l/100 l AB				
STIC 2000	1 % v/v AB				
	0.0 a	100.0 a	2.80 a	39.923 a	1.67 b
	0.0 Min	100.0 Min	0.00 Min	17.073 Min	0.00 Min
	0.0 Max	100.0 Max	10.00 Max	52.174 Max	6.20 Max
	0.0 StDev	0.0 StDev	2.80 StDev	15.595 StDev	1.64 StDev
LSD P=.05			1.264	33.2297	2.598
Standard Deviation	0.00	0.00	0.821	20.7739	1.686
CV	0.0	0.0	32.76	37.02	54.39
Levene's F	0.00	0.00	1.153	0.614	3.29
Levene's Prob(F)	0.00*	0.00*	0.37	0.619	0.04*
Skewness			0.4943	-0.6128	1.8499*
Kurtosis			-0.8027	0.3826	2.6407*
Replicate F	0.000	0.000	0.757	0.529	0.625
Replicate Prob(F)	1.0000	1.0000	0.5394	0.6733	0.6123
Treatment F	0.000	0.000	8.877	1.227	11.778
Treatment Prob(F)	1.0000	1.0000	0.0014	0.3555	0.0004

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}
 Column 9 Footnote: % Green Leaf Area

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

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Pest Type	D Disease	D Disease	D Disease	D Disease	
Pest Code	SEPTTR	SEPTTR	SEPTTR	ZZYYFY	
Pest Scientific Name	Zymoseptoria tr>	Zymoseptoria tr>	Zymoseptoria tr>	Complex of know>	
Pest Name	Speckled leaf b>	Speckled leaf b>	Speckled leaf b>	Complex, dif. f>	
Crop Type, Code	C TRZAW	C TRZAW	C TRZAW	C TRZAW	C TRZAW
BBCH Scale	BCER	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Rating Date	Jun-18-2013	Jul-2-2013	Jul-2-2013	Jul-15-2013	Aug-7-2013
SE Group No.	10	11	12	13	14
Part Rated	LEAF3 P	LEAF2 P	LEAF2 P	LEAGRE P	GRAIN C
Rating Type	PESSEV	PESSEV	PESSEV	ARE A	YIELD
Rating Unit	%UNCK	%	%UNCK	%ARE A	KG
Sample Size	10	10	10	5	1
Reporting Basis	LEAF	LEAF	LEAF	LEAF	PLOT
Number of Subsamples	1	10	1	5	1
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max	59	70	70	84	99
Pest Density	8.25 PERCENT	15.5 PERCENT	15.5 PERCENT	1.75 PERCENT	
Footnote Number				2	
Rating Timing	2	3	3	4	5
Days After First/Last Applic.	64 15	78 29	78 29	91 7	114 30
Trt-Eval Interval	15 DA-B	29 DA-B	29 DA-B	7 DA-C	30 DA-C
Plant-E val Interval	261 DP-1	275 DP-1	275 DP-1	288 DP-1	311 DP-1
ARM Action Codes	TAB[5] EC		TAB[7] EC		
Number of Decimals	3	2	3	2	2
Trt Treatment	Rate	Rate	Rate	Rate	Rate
No. Name	Rate Unit	Rate Unit	Rate Unit	Rate Unit	Rate Unit
1 Untreated Check	ABC				
2 ERO	0.5 l/ha ABC				
3 TUB	1 l/ha ABC				
4 ZIRAMO	0.5 kg/ha ABC				
5 MICO 60	0.6 l/100 l AB				
STIC 2000	1 % v/v AB				
LSD P=.05	21.4619	3.146	14.2372	19.666	0.360
Standard Deviation	13.4172	0.042	8.9006	12.765	0.233
CV	18.27		10.36	61.07	2.9
Levene's F	0.389	0.523	3.444	2.032	1.28
Levene's Prob(F)	0.763	0.085	0.052	0.141	0.321
Skewness	-1.4879*	1.7361*	-1.4806*	0.3594	0.1737
Kurtosis	1.5309	2.3213*	2.7562*	-1.0412	-0.5835
Replicate F	8.502	4.360	2.287	0.626	22.649
Replicate Prob(F)	0.0054	0.0270	0.1474	0.6121	0.0001
Treatment F	0.437	35.175	4.085	3.466	5.873
Treatment Prob(F)	0.7318	0.0001	0.0437	0.0421	0.0074



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 Sponsor Contact:

Pest Type			
Pest Code			
Pest Scientific Name			
Pest Name			
Crop Type, Code	C TRZAW	C TRZAW	C TRZAW
BBCH Scale	BCER	BCER	BCER
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>
Crop Name	Winter wheat	Winter wheat	Winter wheat
Rating Date	Aug-7-2013	Aug-7-2013	Aug-7-2013
SE Group No.	15	18	17
Part Rated	GRAIN C	GRAIN C	GRAIN C
Rating Type	MOICON	YIELD	YIELD
Rating Unit	%	Q-MET	%UNCK
Sample Size		1 HA	
Reporting Basis			
Number of Subsamples	1	1	1
Crop Stage Scale	BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max	99	99	99
Pest Density			
Footnote Number		1	1
Rating Timing		5	5
Days After First/Last Applic.	114 30	114 30	114 30
Trt-Eval Interval	30 DA-C	30 DA-C	30 DA-C
Plant-E val Interval	311 DP-1	311 DP-1	311 DP-1
ARM Action Codes		TY1	@UPOCR
Number of Decimals	1	3	2
Trt Treatment	11	12	13
No. Name			
1 Untreated Check	ABC		
	11.7 a	79.254 b	100.00 b
	11.3 Min	74.670 Min	100.00 Min
	12.1 Max	86.176 Max	100.00 Max
	0.3 StDev	4.975 StDev	0.00 StDev
2 ERO	0.5 l/ha	ABC	
	11.6 a	86.157 a	108.68 a
	11.2 Min	80.769 Min	108.07 Min
	12.3 Max	94.446 Max	109.60 Max
	0.5 StDev	5.876 StDev	0.71 StDev
3 TUB	1 l/ha	ABC	
	12.2 a	85.119 a	107.51 a
	11.4 Min	81.598 Min	104.37 Min
	13.0 Max	89.947 Max	109.83 Max
	0.7 StDev	3.491 StDev	2.53 StDev
4 ZIRAMO	0.5 kg/ha	ABC	
	12.1 a	85.620 a	108.16 a
	11.7 Min	80.797 Min	103.50 Min
	13.3 Max	89.192 Max	111.70 Max
	0.8 StDev	3.511 StDev	3.43 StDev
5 MICO 60	0.6 l/100 l	AB	
STIC 2000	1 % v/v	AB	
	12.5 a	84.779 a	106.90 a
	11.1 Min	77.034 Min	103.17 Min
	15.0 Max	91.919 Max	114.01 Max
	1.7 StDev	7.442 StDev	4.98 StDev
LSD P=.05	1.46	3.6576	4.640
Standard Deviation	0.95	2.3740	3.012
CV	7.86	2.82	2.83
Levene's F	1.126	1.362	2.005
Levene's Prob(F)	0.381	0.294	0.145
Skewness	2.0681*	0.0812	-0.1934
Kurtosis	5.3045*	-0.6516	-0.872
Replicate F	0.945	20.694	0.803
Replicate Prob(F)	0.4494	0.0001	0.5161
Treatment F	0.695	5.587	5.584
Treatment Prob(F)	0.6094	0.0089	0.0089



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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

Treatment Name

TUB = ||

MICO 60 = a+b|25+25|

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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 Study Director: R.E. Cearch
 Sponsor Contact:

Pest Type				D Disease	D Disease	D Disease
Pest Code				SEP TTR	SEP TTR	SEP TTR
Pest Scientific Name				Zymoseptoria tr>	Zymoseptoria tr>	Zymoseptoria tr>
Pest Name				Speckled leaf b>	Speckled leaf b>	Speckled leaf b>
Crop Type, Code	C TRZAW	C TRZAW		C TRZAW	C TRZAW	C TRZAW
BBCH Scale	BCER	BCER		BCER	BCER	BCER
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>		Triticum aestiv>	Triticum aestiv>	Triticum aestiv>
Crop Name	Winter wheat	Winter wheat		Winter wheat	Winter wheat	Winter wheat
Rating Date	May-1-2013	May-1-2013		May-13-2013	May-13-2013	Jun-18-2013
SE Group No.	5	6		7	8	9
Part Rated	LEAF C	PLANT C		LEAF3 P	LEAF3 P	LEAF3 P
Rating Type	PHYGEN	VGOR		PESSEV	PESSEV	PESSEV
Rating Unit	%	%		%	%UNCK	%
Sample Size				10 LEAF	10 LEAF	10 LEAF
Reporting Basis						
Number of Subsamples	1	1		10	1	10
Crop Stage Scale				BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max				32	32	59
Pest Density				4.42 PERCENT	4.42 PERCENT	8.25 PERCENT
Footnote Number						
Rating Timing				1	1	2
Days After First/Last Applic.	16 16	16 16		28 28	28 28	64 15
Trt-Eval Interval	16 DA-A	16 DA-A		28 DA-A	28 DA-A	15 DA-B
Plant-E val Interval	213 DP-1	213 DP-1		225 DP-1	225 DP-1	261 DP-1
ARM Action Codes	P	P			TAB[3] EC	
Number of Decimals				2	3	2
Trt Treatment	Rate Appl					
No. Name	Rate Unit Code Plot					
1 Untreated Check	ABC 104					
	203					
	301					
	403					
Mean =						
2 ERO	0.5 l/ha ABC 103					
	201					
	304					
	402					
Mean =						
3 TUB	1 l/ha ABC 101					
	205					
	302					
	405					
Mean =						
4 ZIRAMO	0.5 kg/ha ABC 105					
	202					
	305					
	401					
Mean =						
5 MICO 60	0.6 l/100 l AB 102					
STIC 2000	1 % v/v AB 204					
	303					
	404					
Mean =						

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 = &100*@AvgSub([12])/[TUC12]
 Footnote: Adjusted at 15 % Moisture



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Pest Type	D Disease	D Disease	D Disease	D Disease	
Pest Code	SEPTTR	SEPTTR	SEPTTR	ZZYYFY	
Pest Scientific Name	Zymoseptoria tr>	Zymoseptoria tr>	Zymoseptoria tr>	Complex of know>	
Pest Name	Speckled leaf b>	Speckled leaf b>	Speckled leaf b>	Complex, dif. f>	
Crop Type, Code	C TRZAW	C TRZAW	C TRZAW	C TRZAW	C TRZAW
BBCH Scale	BCER	BCER	BCER	BCER	BCER
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>
Crop Name	Winter wheat	Winter wheat	Winter wheat	Winter wheat	Winter wheat
Rating Date	Jun-18-2013	Jul-2-2013	Jul-2-2013	Jul-15-2013	Aug-7-2013
SE Group No.	10	11	12	13	14
Part Rated	LEAF3 P	LEAF2 P	LEAF2 P	LEAGRE P	GRAIN C
Rating Type	PESSEV	PESSEV	PESSEV	AREA	YIELD
Rating Unit	%UNCK	%	%UNCK	%AREA	KG
Sample Size	10	10	10	5	1
Reporting Basis	LEAF	LEAF	LEAF	LEAF	PLOT
Number of Subsamples	1	10	1	5	1
Crop Stage Scale	BBCH	BBCH	BBCH	BBCH	BBCH
Crop Stage Majority/Min/Max	59	70	70	84	99
Pest Density	8.25 PERCENT	15.5 PERCENT	15.5 PERCENT	1.75 PERCENT	
Footnote Number				2	
Rating Timing	2	3	3	4	5
Days After First/Last Applic.	64 15	78 29	78 29	91 7	114 30
Trt-Eval Interval	15 DA-B	29 DA-B	29 DA-B	7 DA-C	30 DA-C
Plant-Eval Interval	261 DP-1	275 DP-1	275 DP-1	288 DP-1	311 DP-1
ARM Action Codes	TAB[5] E C		TAB[7] E C		
Number of Decimals	3	2	3	2	2
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot			
1 Untreated Check	ABC	104			
		203			
		301			
		403			
Mean =					
2 ERO	0.5 l/ha	ABC	103		
			201		
			304		
			402		
Mean =					
3 TUB	1 l/ha	ABC	101		
			205		
			302		
			405		
Mean =					
4 ZIRAMO	0.5 kg/ha	ABC	105		
			202		
			305		
			401		
Mean =					
5 MICO 60	0.6 l/100 l	AB	102		
STIC 2000	1 % v/v	AB	204		
			303		
			404		
Mean =					

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 Study Director: R.E. Cearch
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Pest Type				
Pest Code				
Pest Scientific Name				
Pest Name				
Crop Type, Code	C TRZAW	C TRZAW	C TRZAW	
BBCH Scale	BCER	BCER	BCER	
Crop Scientific Name	Triticum aestiv>	Triticum aestiv>	Triticum aestiv>	
Crop Name	Winter wheat	Winter wheat	Winter wheat	
Rating Date	Aug-7-2013	Aug-7-2013	Aug-7-2013	
SE Group No.	15	18	17	
Part Rated	GRAIN C	GRAIN C	GRAIN C	
Rating Type	MOICON	YIELD	YIELD	
Rating Unit	%	Q-MET	%UNCK	
Sample Size		1		
Reporting Basis		HA		
Number of Subsamples	1	1	1	
Crop Stage Scale	BBCH	BBCH	BBCH	
Crop Stage Majority/Min/Max	99	99	99	
Pest Density				
Footnote Number		1	1	
Rating Timing	5	5	5	
Days After First/Last Applic.	114 30	114 30	114 30	
Trt-Eval Interval	30 DA-C	30 DA-C	30 DA-C	
Plant-Eval Interval	311 DP-1	311 DP-1	311 DP-1	
ARM Action Codes		TY1	@UPOCR	
Number of Decimals	1	3	2	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot		
1 Untreated Check	ABC	104		
		203		
		301		
		403		
Mean =				
2 ERO	0.5 l/ha	ABC	103	
		201		
		304		
		402		
Mean =				
3 TUB	1 l/ha	ABC	101	
		205		
		302		
		405		
Mean =				
4 ZIRAMO	0.5 kg/ha	ABC	105	
		202		
		305		
		401		
Mean =				
5 MICO 60	0.6 l/100 l AB	102		
STIC 2000	1 % v/v AB	204		
		303		
		404		
Mean =				

10

12

13

86.176

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 Protocol ID: Verification_1 Investigator (Creator): Matthew Elsinger
 Study Director: R.E. Cearch
 Sponsor Contact:

Additional Treatment Information

Treatment Name

TUB = J

MICO 60 = a+b[25+25]

Rate Unit

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

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

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]