

SynTech Research, Inc.

Effect of Tranlin's 5-0-2 fulvic liquid fertilizer on broccoli yield

Trial ID: Vastly-broccoli-Fert Location: Sanger CA, UE Trial Year: 2017
 Protocol ID: Vastly-broccoli-Fert Investigator: Thomas Duvall

General Trial Information

Investigator: Thomas Duvall

Methods

The objective of this trial was to test fertilizer 5-0-2 on broccoli. The complete randomized block design consisted of five treatments and four replications. Each plot consisted of four 50 foot rows of broccoli. Each plot received two 50 foot drip lines for applications and irrigation. Each individual drip line used a coupler with a valve to regulate applications to each individual treatment. All irrigation lines used were 5/8" 16mm drip tape. The output of the drip tape was 0.6 GPM/100ft at 15 psi. The applications were made using a Dosatron D14M22 running at 15psi. Large plastic graduated cylinders were used to feed undiluted 5-0-2 into the Dosatron. The Dosatron was set at a ratio of 0.5% or 1:200 giving a total application time of one hour. For each plot, 15 feet was measured in the center and the four rows harvested. Broccoli heads were harvested using standard commercial techniques. Evaluations such as total weight, height, and width were conducted in the field. For the root size and weight, 10 samples were gently pulled from each plot and cleaned on wire mesh using a water jet hose nozzle. After cleaning, the roots were air-dried and weighed on a digital scale and measured for length.

All data was entered into ARM 2018.2 and analyzed using an unprotected Fisher's LSD test with alpha set a 0.10

Results

Statistical differences between the control and the treated means were detected in nearly all post-applications evaluations. Plant height, width (N-to-S and E-to-W), yield, and average plant weight were all statistically higher in the treated plots than in the control plots. Only numerical differences were found in root weight.

Investigator: Thomas Duvall
Organization: Syntech Research
Address: 17915 East Annadale Ave
City+State/Prov: Sanger **Mobile No.:** 650 387 7324
Postal Code: 93657

Crop Description

Crop 1: BRSOK Brassica oleracea italica Asparagus broccoli
Variety: Broccoli **BBCH Scale:** BVBB
Planting Rate, Unit: 0.8 P/FT2
Harvested Width, Unit: 5 FT
Harvested Length, Unit: 15 FT

Site and Design

Treated Plot Width: 5 FT
Treated Plot Length: 50 FT
Treated Plot Area: 250 FT2 **Treatments:** 5
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

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Application Description

	A	B	C
Application Date:	Oct-27-2017	Nov-6-2017	Nov-16-2017
Appl. Start Time:	1:30 PM	1:00 PM	1:00 PM
Appl. Stop Time:	2:30 PM	1:35 PM	1:30 PM
Interval to Prev. Appl., Unit:		10 DAYS	10 DAYS
Application Method:	INJECT	INJECT	INJECT
Application Placement:	SOIL	SOIL	SOIL
Applied By:	TD	TD	NV
Air Temperature, Unit:	85 F	63 F	70 F
% Relative Humidity:	28	42	43
Wind Velocity, Unit:	3.8 MPH	4 MPH	6.8 MPH
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	70 F	62.6 F	62.8 F
% Cloud Cover:	0	15	100

Application Equipment

	A	B	C
Appl. Equipment:	Dosatron	Dosatron	Dosatron
Equipment Type:	INJECT	INJECT	INJECT
Carrier:	WATER	WATER	WATER
Minimum Mix/Treatment:	0 liters	0 liters	0 liters

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Effect of Tranlin's 5-0-2 fulvic liquid fertilizer on broccoli yield									
Trial ID: Vastly-broccoli-Fert		Location: Sanger CA, UE		Trial Year: 2017					
Protocol ID: Vastly-broccoli-Fert		Investigator: Thomas Duvall							
Crop ID Code	1 BRSOK			1 BRSOK					
BBCH Scale	BVBB			BVBB					
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica					
Crop Name	Asparagus broccoli			Asparagus broccoli					
Crop Variety	Broccoli			Broccoli					
Description	Plant Height			Plant Height					
Part Rated	PLANT C			PLANT C					
Rating Date	Oct-27-2017			Nov-5-2017					
Rating Type	HEIGHT			HEIGHT					
Rating Unit	IN			IN					
Sample Size, Unit	1 PLANT			1 PLANT					
Number of Subsamples	6			6					
Days After First/Last Applic.	0 0			9 9					
Trt-Eval Interval	0 DA-A			9 DA-A					
ARM Action Codes									
Number of Decimals									
Trt Treatment	Form	Form	Rate	Appl					
No. Name	Conc	Type	Rate	Unit	Code				
1Control						*			
2NF			4.292a			6.42ab			
5-0-2 fulvic liquid	L		6gal/a	A		4.192a			
3NF			4.233a			6.23ab			
5-0-2 fulvic liquid	L		6gal/a	AB		4.233a			
4NF			4.104a			6.63a			
5-0-2 fulvic liquid	L		6gal/a	ABC		4.104a			
50.85 x NF			4.171a			6.40ab			
5-0-2 fulvic liquid	L		6gal/a	AB		4.171a			
LSD P=.10				0.3250					
Standard Deviation				0.2579					
CV				6.14					
Levene's F				1.183					
Levene's Prob(F)				0.358					
				0.544					
				0.432					
				6.8					
				0.719					
				0.592					

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)

Due to missing data, larger LSD values (col. 8: >=5.49 and <=6.07) are used for mean comparisons of treatment pairs with missing data.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 14,15,16,17,18,19,20,21,22,23,24 because error mean square = 0.

SynTech Research, Inc.

Crop ID Code	1	BRSOK		1	BRSOK
BBCB Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	Plant Height			Plant Height	
Part Rated	PLANT C			PLANT C	
Rating Date	Nov-16-2017			Nov-27-2017	
Rating Type	HEIGHT			HEIGHT	
Rating Unit	IN			IN	
Sample Size, Unit	1	PLANT		1	PLANT
Number of Subsamples	6			6	
Days After First/Last Applic.	20	10		31	11
Trt-Eval Interval	20 DA-A			31 DA-A	
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
					*
1Control			7.79b		10.77b
2NF			7.78b		12.02ab
5-0-2 fulvic liquid	L		6gal/a	A	
3NF			9.17a		13.48a
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF			9.10a		13.50a
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF			9.05a		13.14a
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10			0.937		2.246
Standard Deviation			0.743		1.782
CV			8.66		14.16
Levene's F			0.138		0.389
Levene's Prob(F)			0.966		0.814

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Crop ID Code		1	BRSOK		1	BRSOK
BCH Scale			BVBB			BVBB
Crop Scientific Name		Brassica oleracea italica			Brassica oleracea italica	
Crop Name		Asparagus broccoli			Asparagus broccoli	
Crop Variety		Broccoli			Broccoli	
Description		Plant Height			Head Width E-W	
Part Rated		PLANT C			HEAD C	
Rating Date		Feb-13-2018			Feb-13-2018	
Rating Type		HEIGHT			WIDTH	
Rating Unit		IN			IN	
Sample Size, Unit		1	PLANT		1	PLANT
Number of Subsamples		6			6	
Days After First/Last Applic.		109	89		109	89
Trt-Eval Interval		109 DA-A			109 DA-A	
ARM Action Codes						
Number of Decimals						
Trt Treatment	Form Form	Rate	Appl			
No. Name	Conc Type	Rate Unit	Code	*	*	
1Control				15.38b	6.69bc	
2NF				15.90ab	6.65c	
5-0-2 fulvic liquid	L	6gal/a	A			
3NF				16.21ab	7.21a	
5-0-2 fulvic liquid	L	6gal/a	AB			
4NF				16.96a	7.08ab	
5-0-2 fulvic liquid	L	6gal/a	ABC			
50.85 x NF				16.31ab	6.89abc	
5-0-2 fulvic liquid	L	6gal/a	AB			
LSD P=.10				1.373	0.409	
Standard Deviation				1.090	0.325	
CV				6.75	4.7	
Levene's F				0.778	0.574	
Levene's Prob(F)				0.556	0.686	

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Crop ID Code	1	BRSOK		1	BRSOK
BBCB Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	Head Width N-S			Stand Counts	
Part Rated	HEAD C			PLANT C	
Rating Date	Feb-13-2018			Feb-13-2018	
Rating Type	WIDTH			COUPLA	
Rating Unit	IN			NUMBER	
Sample Size, Unit	1	PLANT		15	ROWFT
Number of Subsamples	6			1	
Days After First/Last Applic.	109	89		109	89
Trt-Eval Interval	109 DA-A			109 DA-A	
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
					*
1Control					6.50b
2NF					6.58ab
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					6.88a
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF					6.71ab
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF					6.80ab
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					0.313
Standard Deviation					0.248
CV					3.71
Levene's F					1.082
Levene's Prob(F)					0.40
					5.49
					4.23
					7.17
					0.882
					0.503

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Could not calculate LSD (% mean diff) for columns 14,15,16,17,18,19,20,21,22,23,24 because error mean square = 0.

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Crop ID Code	1 BRSOK		1 BRSOK
BCH Scale	BVBB		BVBB
Crop Scientific Name	Brassica oleracea italica		Brassica oleracea italica
Crop Name	Asparagus broccoli		Asparagus broccoli
Crop Variety	Broccoli		Broccoli
Description	Weight-Head/Stalk		Weight-Head/Stalk/ac
Part Rated	HEAD C		HEAD c
Rating Date	Feb-13-2018		Feb-13-2018
Rating Type	YIELD		YIELD
Rating Unit	LB		LB
Sample Size, Unit	15	ROWFT	1 A
Number of Subsamples	1		1
Days After First/Last Applic.	109	89	109 89
Trt-Eval Interval	109 DA-A		109 DA-A
ARM Action Codes			TY2
Number of Decimals			1
Trt Treatment	Form Form	Rate Appl	
No. Name	Conc Type	Rate Unit Code	
1Control			*
2NF			*
5-0-2 fulvic liquid	L	6gal/a A	
3NF			
5-0-2 fulvic liquid	L	6gal/a AB	
4NF			
5-0-2 fulvic liquid	L	6gal/a ABC	
50.85 x NF			
5-0-2 fulvic liquid	L	6gal/a AB	
LSD P=.10		7.6961	4469.88
Standard Deviation		5.9374	3448.43
CV		14.19	14.19
Levene's F		0.228	0.228
Levene's Prob(F)		0.917	0.917

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Crop ID Code	1	BRSOK		1	BRSOK
BBCB Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	Avg Weight per plant			Root Weight	
Part Rated		HEAD	C		ROOT
Rating Date	Feb-13-2018			Feb-19-2018	
Rating Type	YIELD			WEIGHT	
Rating Unit	LB			g	
Sample Size, Unit	1	PLANT		1	PLANT
Number of Subsamples	1			10	
Days After First/Last Applic.	109	89		115	95
Trt-Eval Interval					
ARM Action Codes	T1				
Number of Decimals	2				
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					*
2NF			0.66b		18.3b
5-0-2 fulvic liquid	L		6gal/a	A	17.9b
3NF			0.82a		23.4a
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF			0.66b		21.2ab
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF			0.78ab		22.0ab
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10			0.120		4.45
Standard Deviation			0.092		3.53
CV			13.05		17.19
Levene's F			0.14		0.566
Levene's Prob(F)			0.964		0.691

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Crop ID Code	1	BRSOK			1	BRSOK
BCH Scale		BVBB				BVBB
Crop Scientific Name	Brassica oleracea italica		Brassica oleracea italica			
Crop Name	Asparagus broccoli		Asparagus broccoli			
Crop Variety	Broccoli		Broccoli			
Description	Root Length		N			
Part Rated	ROOT		C			
Rating Date	Feb-19-2018		Dec-27-2017			
Rating Type	LENGTH		CONNIT			
Rating Unit	IN		%			
Sample Size, Unit	1	PLANT	1		SAMPLE	
Number of Subsamples	10		1			
Days After First/Last Applic.	115	95	61		41	
Trt-Eval Interval						
ARM Action Codes						
Number of Decimals						
Trt Treatment	Form	Form	Rate	Appl		
No. Name	Conc	Type	Rate	Unit	Code	
*						
1Control			4.225a			.
2NF			4.340a			.
5-0-2 fulvic liquid	L		6gal/a	A		.
3NF			4.503a			.
5-0-2 fulvic liquid	L		6gal/a	AB		.
4NF			4.463a			3.270
5-0-2 fulvic liquid	L		6gal/a	ABC		.
50.85 x NF			4.607a			.
5-0-2 fulvic liquid	L		6gal/a	AB		.
LSD P=.10			0.5099			.
Standard Deviation			0.4046			.
CV			9.14			.
Levene's F			0.108			.
Levene's Prob(F)			0.978			.

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Crop ID Code	1	BRSOK		1	BRSOK
BCH Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	P			K	
Part Rated	LEAF		C	LEAF	
Rating Date	Dec-27-2017			Dec-27-2017	
Rating Type	CONP			CONK	
Rating Unit	%			%	
Sample Size, Unit	1	SAMPLE		1	SAMPLE
Number of Subsamples	1			1	
Days After First/Last Applic.	61	41		61	41
Trt-Eval Interval					
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					.
2NF					.
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF			0.340		2.350
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					.
Standard Deviation					.
CV					.
Levene's F					.
Levene's Prob(F)					.

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Crop ID Code	1	BRSOK		1	BRSOK
BBCH Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description		Zn			Mn
Part Rated		LEAF	-		LEAF -
Rating Date	Dec-27-2017			Dec-27-2017	
Rating Type		CONZN			CONMN
Rating Unit		mg/kg			mg/kg
Sample Size, Unit	1	SAMPLE		1	SAMPLE
Number of Subsamples		1			1
Days After First/Last Applic.	61	41		61	41
Trt-Eval Interval					
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					.
2NF					.
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF					29.0
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					.
Standard Deviation					.
CV					.
Levene's F					.
Levene's Prob(F)					.

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Crop ID Code	1	BRSOK		1	BRSOK
BBCH Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	Na			B	
Part Rated	LEAF		-	LEAF	
Rating Date	Dec-27-2017			Dec-27-2017	
Rating Type	CONNA			CONB	
Rating Unit	%			mg/kg	
Sample Size, Unit	1	SAMPLE		1	SAMPLE
Number of Subsamples			1		
Days After First/Last Applic.	61	41		61	41
Trt-Eval Interval					
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					.
2NF					.
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF			0.550		21.0
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					.
Standard Deviation					.
CV					.
Levene's F					.
Levene's Prob(F)					.

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Crop ID Code	1	BRSOK		1	BRSOK
BBCH Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description	Ca			Mg	
Part Rated	LEAF		-	LEAF	
Rating Date	Dec-27-2017			Dec-27-2017	
Rating Type	CONCa			CONMg	
Rating Unit	%			%	
Sample Size, Unit	1	SAMPLE		1	SAMPLE
Number of Subsamples		1			1
Days After First/Last Applic.	61	41		61	41
Trt-Eval Interval					
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					.
2NF					.
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF			2.840		0.290
5-0-2 fulvic liquid	L		6gal/a	ABC	
50.85 x NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					.
Standard Deviation					.
CV					.
Levene's F					.
Levene's Prob(F)					.

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Crop ID Code	1	BRSOK		1	BRSOK
BBCH Scale		BVBB			BVBB
Crop Scientific Name	Brassica oleracea italica			Brassica oleracea italica	
Crop Name	Asparagus broccoli			Asparagus broccoli	
Crop Variety	Broccoli			Broccoli	
Description		Fe			Cu
Part Rated		LEAF	-		LEAF
Rating Date	Dec-27-2017			Dec-27-2017	
Rating Type		CONFe			CONCu
Rating Unit		mg/kg			mg/kg
Sample Size, Unit	1	SAMPLE		1	SAMPLE
Number of Subsamples		1			1
Days After First/Last Applic.	61	41		61	41
Trt-Eval Interval					
ARM Action Codes					
Number of Decimals					
Trt Treatment	Form	Form	Rate	Appl	
No. Name	Conc	Type	Rate	Unit	Code
1Control					.
2NF					.
5-0-2 fulvic liquid	L		6gal/a	A	
3NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
4NF					210.0
5-0-2 fulvic liquid	L		6gal/a	ABC	6.0
50.85 x NF					.
5-0-2 fulvic liquid	L		6gal/a	AB	
LSD P=.10					.
Standard Deviation					.
CV					.
Levene's F					.
Levene's Prob(F)					.

Means followed by same letter or symbol do not significantly differ (P=.10, LSD)

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