



OXFORD AGRICULTURAL TRIALS LIMITED

DRAFT REPORT

Title: An evaluation of Efficient 28 when applied to sugar beet

Trial ID: 901A

OAT Project No: 901-17-VIT-BEE

Testing Organisation:

Chris Kay
Oxford Agricultural Trials Limited
West Farm Barns
Launton Road
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Sponsor Details:

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Signed for OAT by:

Managing Director

Date: 22 November 2017

The project comprised a single trial on sugar beet, CV Sabatini, at Haltham, Horncastle, Lincs.

Efficient 28 was applied at 20L/ha on the 7th August when the crop was at growth stage 42 and had 85% ground cover. The crop had previously received 105 kg/ha of nitrogen on the 18th April, before the final cultivation and drilling on the 4th May, and a dressing of 38 kg/ha of nitrogen on the 19th June at crop growth stage 14

The trial was harvested by hand on the 16th October and samples from each plot were sent for sugar analysis. In each plot, two rows 3.6 m long were dug, topped and weighed. The results were then converted to tonnes per hectare of beet and finally, when the sugar analysis was obtained, to tonnes per hectare of sugar.

The data showed that within each replicate the yield was greater where the crop had been treated with Efficient 28. This gave a mean yield that was significantly different from the treatment without Efficient 28.

Sugar analysis results showed that within each replicate the % sugar was lower in plots treated with Efficient 28 but the mean value was not significantly different from the treatment without Efficient 28. When the tonnage of sugar per hectare was calculated it showed that Efficient 28 at 20 L/ha delivered an 8.5% increase in sugar yield.

All data transcribed correctly. J. Scholey 21.11.17

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Trial ID: 901A Location: Haltham Trial Year: 2017
 Protocol ID: 901-17-VIT-BEE Investigator: Lucy Howkins
 Project ID: Study Director: Chris Kay
 Sponsor Contact: Peter Townley

Investigator: Jim Scholey
Organization: OAT (Central)
Address: Stratton Audley **Phone No.:** 01869 278172
City+State/Prov: Oxfordshire **Mobile No.:** 07767 260380
Postal Code: OX27 9AS **E-mail:** jim.scholey@oxagtrials.co.uk
Country: GBR United Kingdom

Cooperator/Landowner
Cooperator: J.Scholey **Role:** FALDOW
Organization: G.A.Scholey & Son **Org. Type:** Farm
Address 1: Manor Farm **Address 2:** Wood Enderby
City: Boston
State/Prov: Lincs
Postal Code: PE22 7PQ
Country: GBR United Kingdom

Crop Description

Crop 1: BEAVA Beta vulgaris vulg. altissima **Sugarbeet**
Variety: Sabatini
Planting Rate, Unit: 110000 S/ha
Depth, Unit: 2 cm
Row Spacing, Unit: 50 cm
Spacing Within Row, Unit: 16 cm
Planting Date: 4.5.17
Planting Method: DRILLE drilled
Planting Equipment: FE field equipment
Harvest Date: 16.10.17
Harvested Width, Unit: 1 m
Harvested Length, Unit: 3.6 m
Harvest Equipment: HAND
Weighing Equipment: BALANCE 50

Site and Design

Treated Plot Width: 2 m
Treated Plot Length: 10 m
Treated Plot Area: 20 m² **Treatments:** 2
Replications: 4
% Slope: 0.0
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RAOBL Randomized Complete Block (RCB)

Trial Initiation Comments:

Trial was level and exposed

No.	Previous Crop
1.	Winter Wheat

Maintenance

No.	Date	Type	Maintenance Product Name	Rate	Rate Unit
1.	31.5.17	MAINT	Betanal MaxxPro	1.0	L/ha
2.	31.5.17	MAINT	Goltix Flowable	1	L/ha
3.	31.5.17	MAINT	Debut	10	g/ha
4.	13.6.17	MAINT	Betanal MaxxPro	1.25	L/ha
5.	13.6.17	MAINT	Goltix Flowable	1	L/ha
6.	13.6.17	MAINT	Debut	10	g/ha
7.	18.7.17	MAINT	Escolta	0.35	L/ha
8.	15.8.17	MAINT	Opus	1.0	L/ha

Soil Description

% Sand: 48 **% OM:** 3.1 **Texture:** SC sandy clay
% Silt: 19 **pH:** 8.0
% Clay: 33 **Fert. Level:** G good
Soil Drainage: G good

Analyzed By:
 NRM Laboratories

Additional Measured Elements

Element	Quantity	Unit
N	143	kg/ha

Moisture and Weather Conditions

Overall Moisture Conditions: NORMAL normal
Closest Weather Station: Coningsby **Distance, Unit:** 6.2 km

No.	Date	Amount	Unit	Min Temp	Max Temp	Temp Unit
1.	4.4.17	0	mm	4	14.8	C

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2.	5.4.17	0	mm	0	15.1	C
3.	6.4.17	0	mm	1.4	16.6	C
4.	7.4.17	0	mm	1.3	15.1	C
5.	8.4.17	0	mm	1.1	20.4	C
6.	9.4.17	0	mm	5.9	25.2	C
7.	10.4.17	0	mm	6.1	15.3	C
8.	11.4.17	0	mm	1.9	16.2	C
9.	12.4.17	0	mm	7.2	13.8	C
10.	13.4.17	0	mm	2.2	14.7	C
11.	14.4.17	2.8	mm	7.7	15.7	C
12.	15.4.17	0.3	mm	6	14.2	C
13.	16.4.17	2.8	mm	4.8	13.7	C
14.	17.4.17	0	mm	5.8	14.5	C
15.	18.4.17	0	mm	1.6	12.8	C
16.	19.4.17	0	mm	-1.4	15.3	C
17.	20.4.17	0	mm	4.1	16.6	C
18.	21.4.17	0	mm	3.1	15.1	C
19.	22.4.17	0.3	mm	6.6	14.8	C
20.	23.4.17	0	mm	4	17	C
21.	24.4.17	1	mm	3	13.4	C
22.	25.4.17	1.5	mm	-0.9	10.7	C
23.	26.4.17	5.6	mm	-1.1	10.9	C
24.	27.4.17	2.3	mm	-2.1	12.3	C
25.	28.4.17	0.3	mm	1.3	14	C
26.	29.4.17	0	mm	7.4	15.1	C
27.	30.4.17	0	mm	7.8	15.6	C
28.	1.5.17	0.3	mm	8	16	C
29.	2.5.17	0	mm	6.3	16.7	C
30.	3.5.17	0	mm	6.2	12.2	C
31.	4.5.17	0	mm	7.2	14.6	C
32.	5.5.17	0	mm	6.3	16.8	C
33.	6.5.17	0	mm	8.4	12.3	C
34.	7.5.17	0	mm	7.3	14.9	C
35.	8.5.17	0	mm	7.9	11.4	C
36.	9.5.17	0	mm	0	11.4	C
37.	10.5.17	0	mm	-1.2	20.5	C
38.	11.5.17	0	mm	0.8	20	C
39.	12.5.17	1.3	mm	7.4	20.3	C
40.	13.5.17	0.3	mm	9.7	17.6	C
41.	14.5.17	1.8	mm	9.4	20.9	C
42.	15.5.17	5.1	mm	6.8	16.9	C
43.	16.5.17	2	mm	14.3	20.1	C
44.	17.5.17	22.1	mm	0	16.4	C
45.	18.5.17	4.3	mm	8.2	21.9	C
46.	19.5.17	5.3	mm	8.8	12.5	C
47.	20.5.17	8.1	mm	7.6	16.3	C
48.	21.5.17	0	mm	6.6	19.4	C
49.	22.5.17	0	mm	7.9	23.9	C
50.	23.5.17	0	mm	10.6	23.7	C
51.	24.5.17	0	mm	9.9	26.8	C
52.	25.5.17	0	mm	10.1	29.4	C
53.	26.5.17	0	mm	10.1	26.5	C
54.	27.5.17	0	mm	15.4	27.3	C
55.	28.5.17	0	mm	14.6	24.6	C
56.	29.5.17	7.6	mm	12.8	16.4	C
57.	30.5.17	0.3	mm	13.5	21.2	C
58.	31.5.17	0	mm	8.1	23.9	C

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59.	1.6.17	0	mm	12.5	25.4	C
60.	2.6.17	0	mm	13.1	23	C
61.	3.6.17	2	mm	13.4	21.8	C
62.	4.6.17	0.5	mm	8.6	20.7	C
63.	5.6.17	2	mm	8.6	17.4	C
64.	6.6.17	25.9	mm	10.5	14.1	C
65.	7.6.17	1	mm	10.8	19.5	C
66.	8.6.17	2	mm	12.1	18.9	C
67.	9.6.17	0	mm	12.9	21.6	C
68.	10.6.17	1	mm	12.8	22.7	C
69.	11.6.17	0	mm	14.6	22	C
70.	12.6.17	0	mm	12.4	19	C
71.	13.6.17	0	mm	12.2	23.9	C
72.	14.6.17	0	mm	11.3	26.2	C
73.	15.6.17	0	mm	14.8	23.3	C
74.	16.6.17	0	mm	13.1	23.8	C
75.	17.6.17	0	mm	13.8	31	C
76.	18.6.17	0	mm	17.9	32	C
77.	19.6.17	0	mm	0	32.7	C
78.	20.6.17	0	mm	14.4	20.2	C
79.	21.6.17	0	mm	13.5	28.3	C
80.	22.6.17	0	mm	15.3	23.2	C
81.	23.6.17	0.5	mm	13.3	20.5	C
82.	24.6.17	0.5	mm	15.3	22.6	C
83.	25.6.17	0	mm	12.7	21.7	C
84.	26.6.17	0	mm	6.5	22.2	C
85.	27.6.17	5.3	mm	12.9	16.2	C
86.	28.6.17	33.8	mm	10.8	13.8	C
87.	29.6.17	3.6	mm	10.9	14.7	C
88.	30.6.17	3.3	mm	13.2	20.2	C
89.	1.7.17	0	mm	12.9	22	C
90.	2.7.17	0	mm	10.8	22.9	C
91.	3.7.17	0	mm	10.2	23.8	C
92.	4.7.17	0	mm	13.2	22.5	C
93.	5.7.17	0	mm	10.5	26	C
94.	6.7.17	6.9	mm	13.5	26.5	C
95.	7.7.17	2	mm	14.4	25.4	C
96.	8.7.17	0	mm	13.1	24.7	C
97.	9.7.17	0	mm	12.2	28.3	C
98.	10.7.17	3.3	mm	13.2	24.4	C
99.	11.7.17	10.4	mm	12	17.3	C
100.	12.7.17	0.3	mm	10.3	21.6	C
101.	13.7.17	0	mm	9.5	22.5	C
102.	14.7.17	0.5	mm	13.6	21.5	C
103.	15.7.17	0.3	mm	12.9	22.8	C
104.	16.7.17	0	mm	11.6	24.4	C
105.	17.7.17	0	mm	7.2	29	C
106.	18.7.17	0	mm	14.6	23.1	C
107.	19.7.17	2.8	mm	15.9	25	C
108.	20.7.17	7.9	mm	11.4	19.5	C
109.	21.7.17	0	mm	10.1	22.2	C
110.	22.7.17	11.2	mm	11.8	22.8	C
111.	23.7.17	5.6	mm	11	21	C
112.	24.7.17	4.3	mm	13.8	15.1	C
113.	25.7.17	0	mm	12.7	22.4	C
114.	26.7.17	3.3	mm	11.8	21.6	C
115.	27.7.17	0.3	mm	11.2	21.6	C

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116.	28.7.17	5.6	mm	12.4	21.4	C
117.	29.7.17	3.3	mm	14	21.2	C
118.	30.7.17	4.8	mm	12.8	21.8	C
119.	31.7.17	0	mm	12.2	23.1	C
120.	1.8.17	0.3	mm	12.6	23.4	C
121.	2.8.17	0	mm	13.2	19.7	C
122.	3.8.17	0	mm	14.7	22.3	C
123.	4.8.17	0	mm	12.3	22.7	C
124.	5.8.17	0	mm	11.3	20.1	C
125.	6.8.17	0	mm	8.7	22.1	C
126.	7.8.17	0	mm	14.2	22.3	C
127.	8.8.17	18	mm	12.3	16.3	C
128.	9.8.17	2.8	mm	10.8	14.8	C
129.	10.8.17	0	mm	8.9	20.3	C
130.	11.8.17	1	mm	8.5	22.2	C
131.	12.8.17	0	mm	12.6	21.5	C
132.	13.8.17	0	mm	8.4	22.9	C
133.	14.8.17	0	mm	11.4	23.5	C
134.	15.8.17	0.3	mm	13	23.5	C
135.	16.8.17	0	mm	10	22.9	C
136.	17.8.17	14.5	mm	13.9	24.3	C
137.	18.8.17	0	mm	11.1	20.6	C
138.	19.8.17	0.3	mm	8.8	19	C
139.	20.8.17	0	mm	10.5	20.9	C
140.	21.8.17	0	mm	10.7	20.6	C
141.	22.8.17	0	mm	15.5	23.1	C
142.	23.8.17	0	mm	14.5	23.1	C
143.	24.8.17	0	mm	10.8	21.8	C
144.	25.8.17	0	mm	10.2	25.9	C
145.	26.8.17	0.3	mm	15	23.7	C
146.	27.8.17	0	mm	10.8	24.9	C
147.	28.8.17	0	mm	12.9	28.7	C
148.	29.8.17	0	mm	12.9	21.2	C
149.	30.8.17	1	mm	11.6	15.2	C
150.	31.8.17	0	mm	7.8	22.2	C
151.	1.9.17	9.7	mm	7.3	19.8	C
152.	2.9.17	0.3	mm	8	21.9	C
153.	3.9.17	1.3	mm	10.4	19.9	C
154.	4.9.17	1.8	mm	12.5	21.5	C
155.	5.9.17	14.7	mm	12.5	21.9	C
156.	6.9.17	0.3	mm	10.9	17.9	C
157.	7.9.17	1.8	mm	9.4	19.8	C
158.	8.9.17	2.3	mm	10.3	19.1	C
159.	9.9.17	5.1	mm	9.5	18.7	C
160.	10.9.17	1.3	mm	7.8	16.5	C
161.	11.9.17	0.5	mm	10.4	17.9	C
162.	12.9.17	3.3	mm	10.3	18.3	C
163.	13.9.17	3.3	mm	8.5	16.3	C
164.	14.9.17	2	mm	7.8	16.8	C
165.	15.9.17	3	mm	5.7	14.3	C
166.	16.9.17	1.3	mm	8.9	13.6	C
167.	17.9.17	0.5	mm	8.6	16.9	C
168.	18.9.17	1.3	mm	10.5	15.6	C
169.	19.9.17	0	mm	8	18.1	C
170.	20.9.17	0	mm	9.4	18.5	C
171.	21.9.17	6.9	mm	9.5	18.5	C
172.	22.9.17	0.3	mm	5.5	18.4	C

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173.	23.9.17	0	mm	11.3	19.7	C
174.	24.9.17	0	mm	10.9	20.5	C
175.	25.9.17	0	mm	13.3	19.4	C
176.	26.9.17	0	mm	11.9	19.6	C
177.	27.9.17	6.3	mm	10.5	20	C
178.	28.9.17	8.1	mm	12.9	20.8	C
179.	29.9.17	1	mm	11.3	18.4	C
180.	30.9.17	0.5	mm	8.3	17.9	C
181.	1.10.17	2	mm	12.7	17.7	C
182.	2.10.17	0	mm	10.5	16.3	C
183.	3.10.17	0	mm	9.3	15.5	C
184.	4.10.17	0.5	mm	9.4	14	C
185.	5.10.17	0	mm	8.2	16.1	C
186.	6.10.17	0	mm	6.8	14.1	C
187.	7.10.17	1.8	mm	9.8	16.1	C
188.	8.10.17	0.3	mm	8.1	15.9	C
189.	9.10.17	0	mm	9.3	16.9	C
190.	10.10.17	0	mm	11.8	19.1	C
191.	11.10.17	0	mm	11.6	17.1	C
192.	12.10.17	0	mm	8.7	17.3	C
193.	13.10.17	0	mm	10.4	20.8	C
194.	14.10.17	0	mm	13.8	22.3	C
195.	15.10.17	0	mm	11.3	19.3	C
196.	16.10.17	0	mm	11.4	21.9	C

Application Description

	A	B	C
Application Date:	18.4.17	19.6.17	7.8.17
Appl. Start Time:			19:00
Appl. Stop Time:			19:10
Application Method:	SPDINC	SPREAD	SPRAY
Application Timing:			LAPOCR
Application Placement:	SOIL	SOIL	FOLIAR
Applied By:	GROWER	GROWER	J.Scholey
Air Temperature, Unit:			19.0 C
% Relative Humidity:			67
Wind Velocity, Unit:			1.5 MPS
Wind Direction:			W
Dew Presence (Y/N):			N no
Soil Temperature, Unit:			20.1 C
Soil Moisture:			NORMAL
% Cloud Cover:			50

Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	BEAVA BSUG	BEAVA BSUG	BEAVA BSUG
Stage Scale Used:	BBCH	BBCH	BBCH
Stage Majority, Percent:	0 100	14 100	42 80
Stage Minimum, Percent:	0 100	14 100	39 20
Stage Maximum, Percent:	0 100	14 100	42 80
Crop coverage (%):		20	85

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Application Equipment

	A	B	C
Appl. Equipment:	GROWERS	GROWERS	AZO
Equipment Type:	MISBLO	MISBLO	PSHCAP
Operation Pressure, Unit:			3 BAR
Nozzle Type:			TEEJET
Nozzle Size:	Setting 6	Setting 6	F110-02
Nozzle Spacing, Unit:			50 CM
Nozzles/Row:			4
Band Width, Unit:			50 CM
Boom ID:	MB4	MB4	18
Boom Length, Unit:			2 M
Boom Height, Unit:			50 CM
Ground Speed, Unit:			1.5 M/S
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:			200 L/HA
Propellant:	AIRFAN	AIRFAN	PROPANE
Tank Mix (Y/N):	N no	N no	N no

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Trial Map Treatment Description

Trt	Code	Description
1	CHK	Farmer Applied N 60 Kg/ha;Farmer Applied N 60 Kg/ha
2		Farmer Applied N 60 Kg/ha;Farmer Applied N 60 Kg/ha;Efficient 28 20.0 L/ha



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Crop Code	BEAVA	BEAVA	BEAVA	BEAVA
BBCH Scale	BSUG	BSUG	BSUG	BSUG
Crop Scientific Name	Beta vulgaris >	Beta vulgaris >	Beta vulgaris >	Beta vulgaris >
Crop Name	Sugarbeet	Sugarbeet	Sugarbeet	Sugarbeet
Part Assessed	ROOT C	ROOT C	ROOT C	SUGAR C
Assessment Date	16.10.17	16.10.17	16.10.17	16.10.17
Assessment Type	YIELD	YIELD	SUGCON	YIELD
Assessment Unit	kg	T-MET	%	T-MET
Number of Subsamples	1	1	1	1
SE Group No.	1	6	3	8
Days After First/Last Applic.	181 70	181 70	181 70	181 70
ARM Action Codes		TY1		T2 APOC
Number of Decimals	2	2	2	1
Trt Treatment	Rate Appl			
No. Name	Rate Unit Code	1*	2*	3*
1 Farmer Applied N 105 Kg/ha	A	22.58 b	62.72 b	17.36 a
Farmer Applied N 38 Kg/ha	B			10.9 a
				(100.0%)
2 Farmer Applied N 105 Kg/ha	A	25.24 a	70.11 a	16.86 a
Farmer Applied N 38 Kg/ha	B			11.8 a
Efficient 28	20.0 l/ha C			(108.5%)
LSD P=.05	2.585	7.180	0.641	1.13
Standard Deviation	1.149	3.190	0.285	0.50
CV	4.8	4.8	1.66	4.44
Bartlett's X2	0.199	0.199	0.51	0.139
P(Bartlett's X2)	0.656	0.656	0.475	0.71
Skewness	0.4254	0.4254	-0.5832	0.3012
Kurtosis	0.2806	0.2806	0.2644	0.3379
Replicate F	1.928	1.928	1.093	3.167
Replicate Prob(F)	0.3016	0.3016	0.4719	0.1845
Treatment F	10.727	10.727	6.356	6.762
Treatment Prob(F)	0.0466	0.0466	0.0861	0.0803

Crop Code

BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = IE

Part Assessed

ROOT = root

C = Crop is Part Rated

Assessment Type

YIELD = yield

SUGCON = sugar content

Assessment Unit

kg = kilogram

T-MET = ton (metric=1000 kg)

% = percent

ARM Action Codes

APOC = Automatic percent control (Control forced to 100% on AOV Means Table)

TY1 = 2.77778*[1]

T2 = (([C2]/100)*[C3])

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.
 * Adjusted means

OAT Ltd.**An evaluation of Efficient 28 when applied to sugar beet**

Trial ID: 901A Location: Haltham Trial Year: 2017
 Protocol ID: 901-17-VIT-BEE Investigator: Lucy Howkins
 Project ID: Study Director: Chris Kay
 Sponsor Contact: Peter Townley

Crop Code	BEAVA	BEAVA	BEAVA	BEAVA
BBCH Scale	BSUG	BSUG	BSUG	BSUG
Crop Scientific Name	Beta vulgaris >	Beta vulgaris >	Beta vulgaris >	Beta vulgaris >
Crop Name	Sugarbeet	Sugarbeet	Sugarbeet	Sugarbeet
Part Assessed	ROOT C	ROOT C	ROOT C	SUGAR C
Assessment Date	16.10.17	16.10.17	16.10.17	16.10.17
Assessment Type	YIELD	YIELD	SUGCON	YIELD
Assessment Unit	kg	T-MET	%	T-MET
Number of Subsamples	1	1	1	1
SE Group No.	1	6	3	8
Days After First/Last Applic.	181 70	181 70	181 70	181 70
ARM Action Codes		TY1		T2 APOC
Number of Decimals	2	2	2	1
Trt Treatment	Rate Appl			
No. Name	Rate	Unit	Code	Plot
				1
1 Farmer Applied N 105 Kg/ha	A			102
Farmer Applied N 38 Kg/ha	B			201
				302
				401
				Mean =
				22.58
2 Farmer Applied N 105 Kg/ha	A			101
Farmer Applied N 38 Kg/ha	B			202
Efficient 28	20.0 l/ha			C 301
				402
				Mean =
				25.24

Crop Code

BEAVA, BSUG, Beta vulgaris vulg. altissima, Sugarbeet = IE

Part Assessed

ROOT = root

C = Crop is Part Rated

Assessment Type

YIELD = yield

SUGCON = sugar content

Assessment Unit

kg = kilogram

T-MET = ton (metric=1000 kg)

% = percent

ARM Action Codes

APOC = Automatic percent control (Control forced to 100% on AOV Means Table)

TY1 = $2.777778 * [1]$ T2 = $(([C2]/100) * [C3])$