

Location: Scotland

Plot reference: Arbroath

Crop: Main crop Potatoes **Variety:** Piper

Date: 26.10.2015 (assessed)

Trial aim: To compare and assess the effect on tuber yield and yield within marketable constraints when applying the Glenside treatment against the control which is the standard farm practice.

Treatments:

1. Glenside Bioscience in Action
2. Control – standard farm practice

Assessment method:

6 x 1.8m digs were selected at random in each treatment block. These tubers were then washed, graded and each category weighted individually. The following table gives an accurate account of the results.



Yield weights and tuber numbers averaged form all digs. Summary

Treatment	Control	Bioscience	Difference	Difference
Over 45mm Tubers	74	82	8	+ 10.8%
Over 45mm Weight	9.3	11	1.7	+ 18%
Under 45mm Tubers	21.8	8.6	- 13.2	- 153%
Under 45mm weight	0.76	0.49	-0.27	- 55%
Total Tubers	95.6	90.3	- 5.3	-5.8%
Total weight	10.1	11.49	+1.4	+ 13.8%

Bioscience increased total Yield by 12.9% Bioscience increase sale able yield by 18%

The actual yield from the control was 23T/ac (57.5T/Ha) the yield from the Bioscience was 26.2T/ac (65.4T/Ha) + 13.8%

Financial benefits

Treatments	Control	Bioscience
Total yield T	57.5	65.4
Saleable yield T	52.9T (92% of Total yield)	62.2T (95% of total yield)
Saleable yield value (£150/T)	£7935	£9324.50

The Bioscience program added a £1389.5 GM contribution/Ha (£556/ac) over control.

The Glenside Group Ltd.

9 caputhall road, Deans Estate, Livingston, West Lothian, EH54 8AS. Tel: 01506 420950

'E' enquiries@glensidegroup.com

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Detailed plot data

Bioscience	Total Tubers	Total Weight	Tubers >45mm	Weight >45mm	Tubers <45mm	Weight <45mm
Plot 1	78	10.85	75	10.55	3	0.3
Plot 2	99	11.75	87	11.1	12	0.65
Plot 3	98	10.6	82	9.9	16	0.7
Plot 4	94	11.75	87	11.3	7	0.45
Plot 5	82	11.5	77	11.15	5	0.35
Plot 6	91	11.65	82	11.15	9	0.5
Average	90.3	11.35	13.6	10.85	8.6	0.5

Control	Total Tubers	Total Weight	Tubers >45mm	Weight >45mm	Tubers <45mm	Weight <45mm
Plot 1	85	9.85	67	9.2	18	0.65
Plot 2	102	12.25	79	11.5	23	0.75
Plot 3	101	9.4	74	8.3	27	1.1
Plot 4	110	9.4	87	8.6	23	0.8
Plot 5	84	9.9	64	9.3	20	0.6
Plot 6	92	9.8	72	9.1	20	0.7
Average	95.6	10.1	73.8	9.3	21.8	0.76