

## Chase SM6 Seaweed Extract Kumara (Sweet Potato) Trial

Dargaville. New Zealand 2006/2007.

A small scale trial to observe the effects of **Chase SM6** on Kumara.

Planted on 03.11.06. Spacing 30" x 14".

**SM6** applied on 06.11.06 at 2.8lt/ha as a drench treatment.

**SM6** applied on 03.01.07 at 2.8lt/ha in 500lt/ha water as a foliar spray.

Trial digs were made on 15.03.07, two sites were selected by the grower in the treated and untreated areas, and in each three plants were dug and the tubers weighed and graded.



<u>Results</u>		Grade 1	Jumbo	Grade 2	Total
<b>SM6</b>	<b>Sample 1</b>				
	Tubers	12	1	2	15
	Kgs				4
	<b>Sample 2</b>				
	Tubers	12	1	3	16
	Kgs				4
	<b>Total Tubers</b>	<b>24</b>	<b>2</b>	<b>5</b>	<b>31</b>
	<b>Kgs</b>	<b>5.8</b>	<b>0.865</b>	<b>1.355</b>	<b>8</b>
	<b>Value 15.03.07 NZ\$</b>	<b>13.16</b>	<b>1.56</b>	<b>1.97</b>	<b>16.69</b>
				<b>2012 equivalent 21.07</b>	
<b>Control</b>	<b>Sample 1</b>				
	Tubers	8	1	2	11
	Kgs				3.3
	<b>Sample 2</b>				
	Tubers	4	1	4	9
	Kgs				3.2
	<b>Total Tubers</b>	<b>12</b>	<b>2</b>	<b>6</b>	<b>20</b>
	<b>Kgs</b>	<b>4.625</b>	<b>0.655</b>	<b>1.22</b>	<b>6.5</b>
	<b>Value 15.03.07 NZ\$</b>	<b>10.50</b>	<b>1.18</b>	<b>1.80</b>	<b>13.48</b>
				<b>2012 equivalent 17.02</b>	

As well as greater total weight from the plants treated with **SM6**, their root structure was visually better and tuber numbers increased. This latter response would be expected in potatoes treated with **SM6** but the grower had thought that it would not affect kumara tuber numbers.

**SM6** can be mixed with most fungicides and trials have shown that this can have beneficial effects. If in doubt about compatibility consult your distributor or the manufacturer concerned.

### Application Rates

2.75 lt/ha at 6 leaf stage and a further 2.75 lt 4 weeks later, in 220-440 lt/ha water. When adopting the 'little and often' basis with more than four applications then the rate could be reduced to 1-1.4 lt/ha. For optimum results do not spray in the middle of the day during hot, sunny periods.