

FACT SHEET

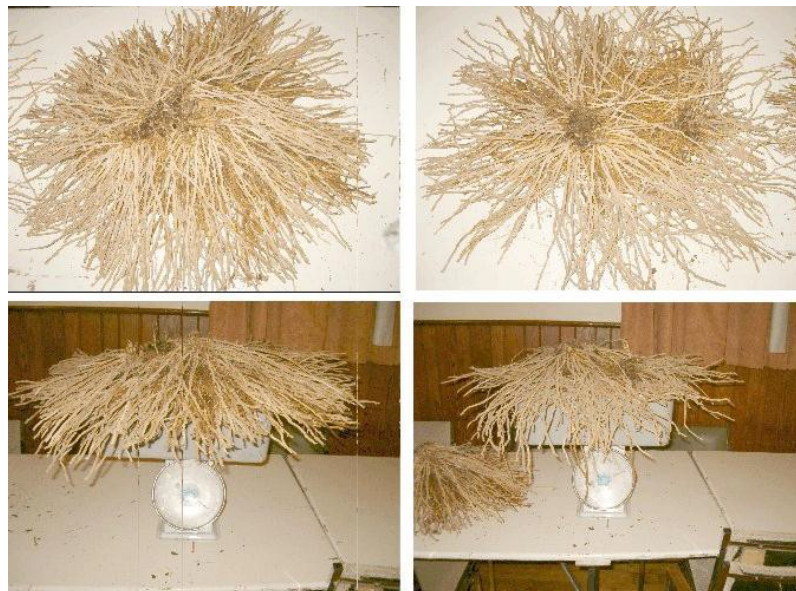
Asparagus
Applications
芦笋应用

SPANISH RIVER
CARBONATITE
"Remineralizing Your Soil"

Spanish River Carbonatite was involved in a three-year trial with the Norfolk Soil and Crop Improvement Association. The trial was on a new asparagus plantation. 2004 was the first full harvest on this 4 year old stand. The plot was set up in alternating 32-foot strips covering 9 acres. The application rate of SRC was 1300 lbs/acre per year. This spring was the third application of SRC for a total of 3900 lbs/acre. The control plot was fertilized with recommended asparagus fertility rates based on an OMAFRA approved soil test. The fertilizer was a blend of 150lbs Nitrogen, 60 lbs Phosphate and 175 lbs Potash per acre. The SRC plot received no additional fertilizer or soil amendments.

西班牙河岩参与了诺福克土壤和作物改良协会一项为期三年的试验。试验为新的芦笋种植。这个4年生植物在2004年迎来了第一个完整的收获。这块地是由32英尺的长条交替覆盖了9英亩面积。SRC的应用率为每年1300磅/英亩。今年春天是第三次施用SRC，总共3900磅/英亩。对比组的试验田按照安大略农业粮食和农村事务部（OMAFRA）通过土壤测试认证的推荐芦笋施肥率施肥。肥料是按每英亩150lbs氮、60磅磷和175磅钾肥的混合物。SRC试验田则没有施用额外的肥料或土壤改良剂。

Root Mass Observations 根群观察



<u>Spanish River Carbonatite Plot</u> <u>SRC实验组</u>	<u>Control Plot</u> <u>对照组</u>
Inputs: 1300 lbs/acre SRC 输入：1300磅/英亩的Src	Inputs: 150 lbs/acre Nitrogen 输入：150磅/英亩的氮
	60 lbs/acre Phosphate 60磅/英亩磷酸盐
	175 lbs/acre Potash 175磅/英亩的钾肥

Weight was 17.5 lbs 重量为17.5磅	Weight was 10.0 lbs 重量为10磅
Root mass produced 64 spears 根群长出64枝笋	Root mass produced 30 spears 根群长出30枝笋
June 24, 2004 - 4th Year - First Full Harvest 第四年2004年6月24日-第一个全面丰收	

Harvesting of asparagus spears will continue until brix levels drop between 7 and 8%. The control strips as of June 24th measured between 7 and 8%. The Spanish River Carbonatite (SRC) plots brix readings all averaged between 12 and 13%. The average spear production for the district is between 2500 and 3000 lbs per acre, this year it has been closer to 2000 lbs/acre; due to a severe winter and a cool wet spring. The yield calculation for the control plots was 5242 lbs. The final production on the SRC plots was 5832 lbs per acre (> 10% increase in yield)

芦笋将持续收获直到白利糖度水平下降7-8%。对照组6月24日测量的结果为7-8%。西班牙河岩（SRC）组白利糖度读数平均为12到13%之间。该地区的平均产量为每英亩2500至3000磅，由于严冬和湿冷的春天，今年的产量是接近2000磅/英亩。对照区的产量计算为5242磅。SRC组的最终产量为每英亩5832磅（增产超过10%）。

**Spanish River Carbonatite -
Asparagus 2004 Test Plots
Yield Records**

**西班牙河碳酸盐岩-芦笋试验田
2004产量记录**

Date	1 - 10 C	11 - 20 T	21 - 30 C	31 - 40 T	41 - 50 C	51 - 55 C	56 - 60 T	61 - 65 T	66 - 70 C	71 - 75 C	76 - 80 T	81 - 85 T	86 - 90 C
May 8, 2004	1.5	2	1.5	2	1.5	2.5	2	2	1.5	1.5	2	2	1.5
May 11, 2004	4	4	3	4	4	12	13	13	18	14	15	15	14
May 12, 2004	5	6	5	5	5	8	8	15	15	8	8	13	10
May 13, 2004	7	6	6	6	6	16	15	16	15	14	15	16	14
May 14, 2004	6	6	6	5	5	16	14	15	13	10	12	12	10
May 15, 2004	4	4	4	3	4	10	10	9	4	3	6	4	4
May 18, 2004	6	6	6	6	6	18	19	19	19	19	20	20	18
May 19, 2004	4	3	3	3	3	10	9	10	9	8	12	12	10
May 21, 2004	6	5	5	6	6	17	15	15	14	12	14	14	12
May 22, 2004	3	3	3	3	3	10	8	4	4	8	6	5	8
May 24, 2004	4	4	4	4	4	6	6	12	11	10	10	12	10
May 26, 2004	3	3	3	3	3	4	5	9	4	4	9	7	5
May 28, 2004	3	3	3	3	3	9	8	5	4	8	8	7	6
May 29, 2004	2	3	2	2	3	6	6	6	5	5	6	6	5
May 31, 2004	4	3	4	3	4	11	10	6	5	5	7	7	5
June 1, 2004	1	2	2	2	1	5	5	6	6	5	5	6	5
Totals	63.5	63.0	60.5	60.0	61.5	160.5	153.0	162.0	147.5	134.5	155.0	158.0	137.5
June 3, 2004	1	2	2	2	2	5	6	6	5	5	6	6	5
June 4, 2004	2	3	2	3	2	2	6	6	4	4	6	6	4
June 5, 2004	1	1	1	2	1	2	4	4	4	4	5	5	4
June 7, 2004	3	3	3	4	3	4	5	5	4	4	5	5	4
June 8, 2004	2	2	2	2	2	3	3	3	3	4	4	4	4
June 9, 2004	3	3	2.5	3	2.5	4	4.5	4.5	3.5	3.5	4	4	3
June 10, 2004	2	2	2	2	2	3	2	2	2	2	2	2	2
June 12, 2004	1.5	1.5	1.5	1.5	1.5	2.5	2	2.5	2.5	2.5	2.5	2.5	2.5
June 14, 2004	4	4	3	3.5	3.5	5.5	5	5	5	5	5	5	4
June 15, 2004	2	2.5	2	2	2	3	3	3.5	3	3	3	3	2.5
June 16, 2004	2	2	2	2	2	3	2.5	2	2.5	2	2	2.5	2.5
Totals	23.5	26	23	27	23.5	37	43	43.5	38.5	39	44.5	45	37.5
Cumulative Total	87	89	83.5	87	85	197.5	196	205.5	186	173.5	199.5	203	175
June 17, 2004	2	1.5	1.5	1.5	1.5	2.5	2	2	2.5	2	2.5	2	2
June 18, 2004	1.5	1.5	1.5	1.5	1.5	2.5	2	2	2	2	2	2.5	2
June 19, 2004	1.5	1.5	1.5	1.5	1.5	2	2.5	2.5	2	2	2	2.5	2

June 21, 2004	2	2	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
Totals	7	6.5	6	6	6	9.5	9	9	9	8.5	9	9.5	8.5
Cumulative Total	94	95.5	89.5	93	91	207	205	214.5	195	182	208.5	212.5	183.5
Total (lbs)	2350	2387.5	2237.5	2325	2275	5175	5125	5362.5	4875	4550	5212.5	5312.5	4587.5
lbs/acre	4351.8	4421.2	4143.5	4305.5	4212.9	6468.7	6406.2	6703.1	6093.7	5687.5	6515.6	6640.6	5734.3
Overall Average	5514	lbs/acre											
SRC Test Plot	5832	lbs/acre											
Control Plot	5242	lbs/acre											

General Comments 概论

The total yields for this test plot were double the district. The Norfolk plain is a coarse well-drained soil subject to acidification. The heavy use of chemical fertilizers will result in accelerating soil aging inevitably resulting in aluminum toxicity, thus overwhelming the soil system. Doug Wall has maintained exceptional fertility through the regular renewal of organic matter and liming. The high-test results are due to good soil fertility through careful management of these two critical soil requirements.

这个试验区的总产量达到该地区的两倍。诺福克平原土壤粗糙、排水良好、易发生酸化。大量使用化肥会加速土壤老化，会不可避免地导致铝中毒，从而使土壤系统遭到破坏。Doug Wall通过定期更新有机物和石灰以保持肥力。通过细致管理这两个关键的土壤需求，获得了良好的土壤肥力，因而得到较高的试验结果。

