

# Chemical Fertiliser Reduction in Hong Kong Golf Club

## Bermuda Turf Trial, 2003, Hong Kong

### Monthly Fertiliser Dosages and Total Nitrogen Used Comparisons

Fertilizer Schedule in Chipping Green of HK Golf Club: fertiliser unit, kg N per 100 sq meters

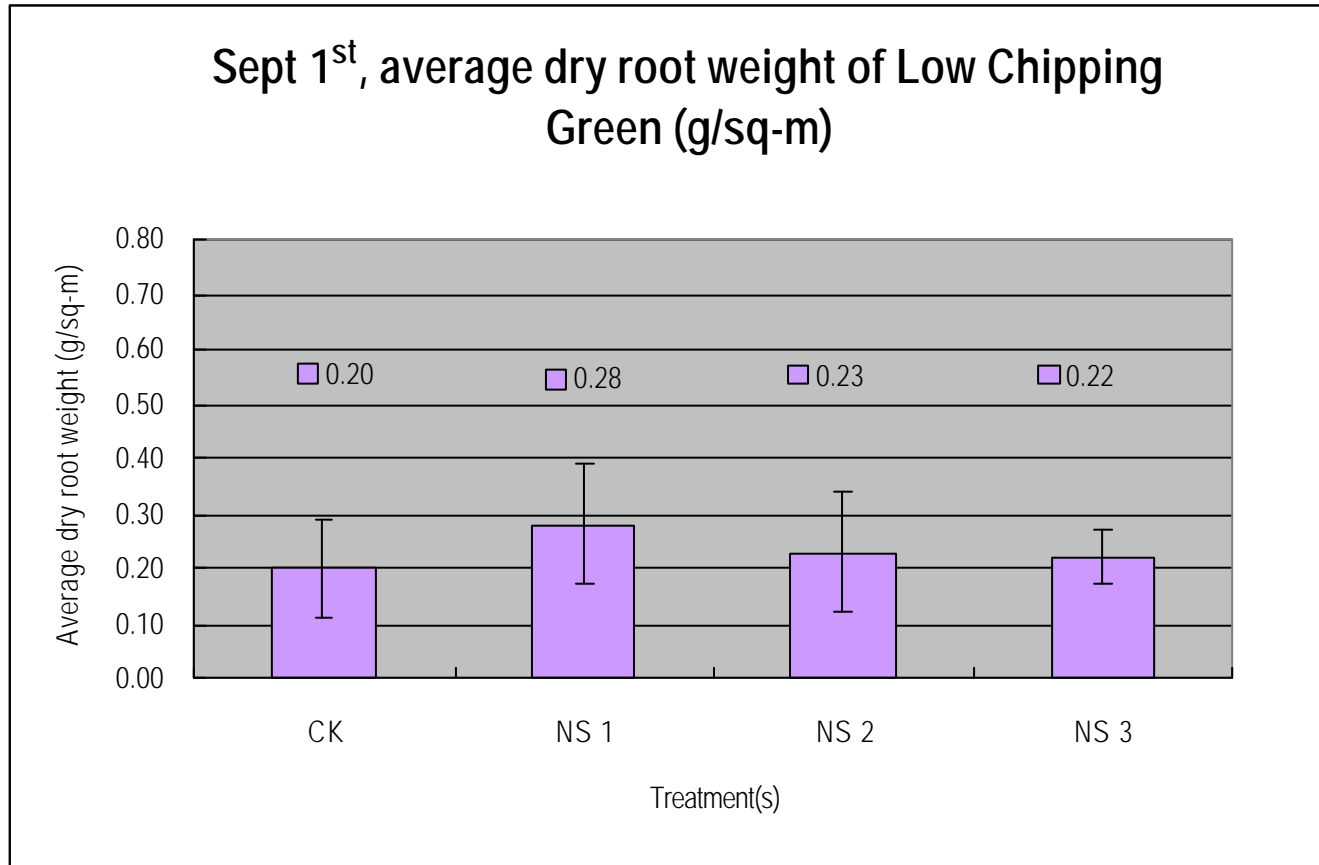
Date of Application	Fertiliser	Control	Control Total N	NS1	NS1 Total N	NS2	NS2 Total N	NS3	NS3 Total N
Mar-10	20:02:22	2.00	0.40	0.80	0.16	1.40	0.28	1.40	0.28
Apr-07	15:00:34	2.00	0.30	2.00	0.30	2.00	0.30	2.00	0.30
May-06	20:02:22	3.10	0.62	0.80	0.16	1.40	0.28	1.40	0.28
Jun-01	20:02:22	2.00	0.40	2.00	0.40	2.00	0.40	2.00	0.40
Jul-28	20:02:22	2.50	0.50	0.40	0.08	1.00	0.20	1.00	0.20
Aug-25	20:02:22	2.00	0.40	0.80	0.16	1.40	0.28	1.40	0.28
<b>% N Reduced</b>			<b>0.0%</b>		<b>52%</b>		<b>34%</b>		<b>34%</b>
<b>Total kg N</b>			2.62		1.26		1.74		1.74

\*Chemical fertiliser reduction is around 50% and 35%

\*\*Fertiliser price for 20:2:22 and 15:0:34 are around HK\$9.30 per kg, NutriSmart™ (NS) price in HK is around HK\$3.9 per kg, 1/3 as the chemical fertilisers. NS1=600 kg/ha, NS2=400 kg/ha, and NS3 = 600 kg/ha

# Hong Kong Golf Club Trial

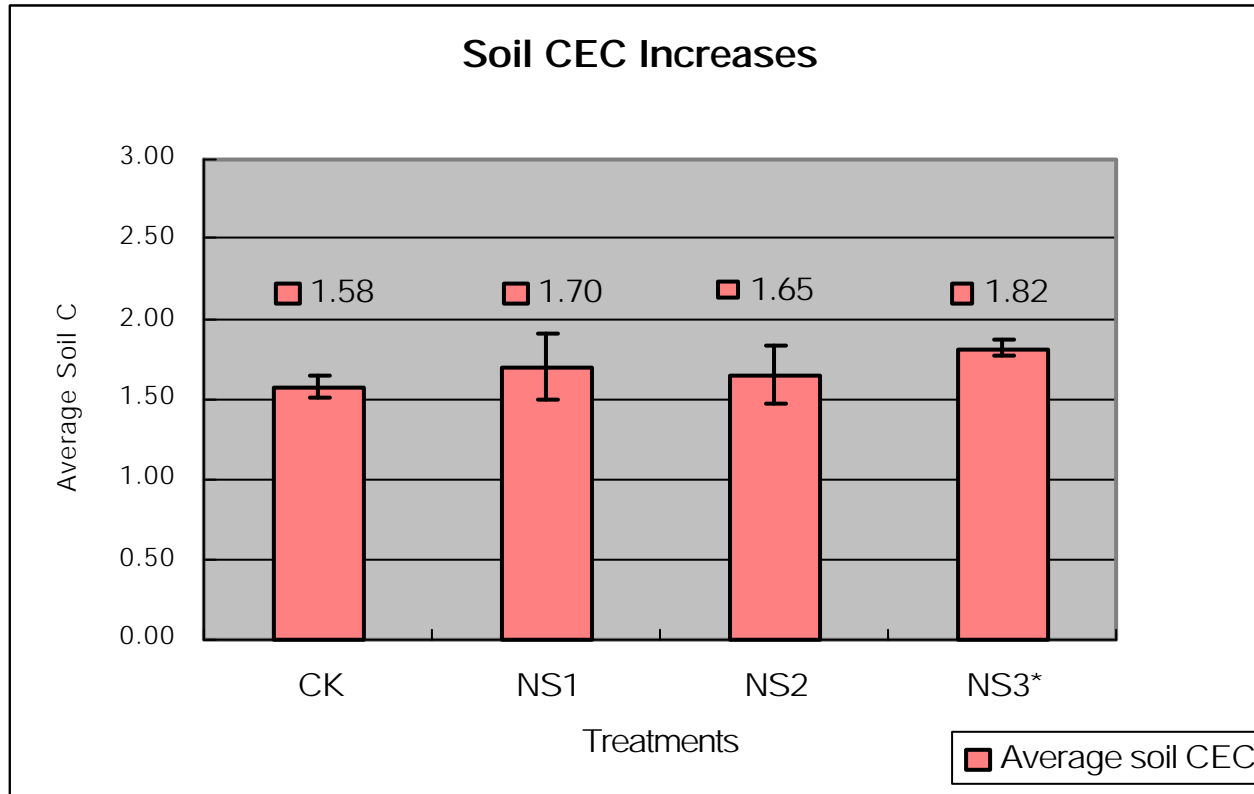
Root dry weight analysis on September 1st, 2003 (5<sup>th</sup> month after application)



- The date from initial NutriSmart™ application is about 5 months. The trend of root dry weight increases is obvious in the test. The root dry weight increase is from 10% (NS3, NS2) to about 40% (NS1).
- For control (CK), chemical fertiliser 20:2:22 was used for control.

# Hong Kong Golf Club Trial, Hong Kong, 2003

Soil CEC meq/100 gram increases on Bermuda chipping green, Hong Kong Golf Club 2003



- Overall soil CEC measurement. All NutriSmart™ plots had higher CEC than that of control (CK) plot. Treatment NS3 showed about 15% increases in CEC meq/100 gram. It is a significant increase as to control.
- CK=control, NS1,600kg/ha, chemical fertiliser 50% reduction;
- NS2 and NS3 NS=400kg/ha and 600 kg/ha, both had 35% chemical fertiliser reduction.