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NONTOX-SILICA™ AND WHEAT

TRAIL SITE AND DESIGN

A planting of wheat, cultivar SST 876 in the district of Bothaville was selected. An application of 10m³ manure plus 100 litre E-EM per ha were the only fertilisation. **Planting date:** 20 July 2005.

A randomised block design with 4 repeats of 20m² blocks was used. The first treatment was applied at stage 5 (advanced tillering) and the second at the appearance of the flag leaf.

TREATMENTS

The Nontox Silica™ was dissolved and applied with 400 litres water per ha.

RESULTS

Two parameters were used to evaluate the responds on 16/02/2006 by two independent individuals, namely.

1. % Defoliation.
2. % Infection of the 3rd and 4th leaf from the flower bud by blackspot.

<i>Treatment</i>	<i>NTS kg/ha At tillering</i>	<i>NTS kg/ha Flag leaf</i>	<i>Yield kg/ha</i>
1	1,50		6 800 ^a
2	0,50	1,00	7 318 ^b
3	1,00	0,50	7 125 ^b
4		1,50	7 256 ^b
5		1,00	7162 ^b
6		0,50	7 250 ^b
7	Control	Control	6 531 ^a

^b Indicates significance at a 15% level. LSD = 564kg

CONCLUSION

A single application of only 0,50, 1,00 or 1,5kg Nontox Silica™ per ha (treatments 4 to 6) at the flag leaf stage, gave an average improvement of 691kg per ha. The cost of the Nontox Silica™ amounts to less than R120 per ha but results in a potential extra income of about R1900 per ha.

RECOMMENDATION

Apply 0,50kg Nontox Silica™ per ha at tillering followed by 1,50kg Nontox Silica™ just before the flag leaf appears.

PREPARATION OF THE CONCENTRATE

- Dissolve 400g Nontox Silica in 1000ml water and leave overnight.
- Do not acidify the concentrate.
- The concentrate is stable for at least 3 months.
- NONTOK SILICA^R is also available as a concentrate in 5 and 200 litre containers.

For technical enquiries contact John Pretorius 083-228 0258 or Hannes Coetzee 082-785 7595.