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Yields of the Field Experiments 2000

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00/R/SU/1 N, K and Density - Sunflowers

Rothamsted Research

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00/R/SU/1

SUNFLOWERS

N, K AND DENSITY

Object: To test potassium, nitrogen and seed rates on the yield of sunflowers - Long Hoos VI/VII 6.

Sponsors: C.G. Peters, P. Hutley-Bull.

Design: 2 blocks of 2 x 2 x 2

Whole plot dimensions: 10 x 3.

Treatments:

All combinations of:

1. **SEEDRATE** Seeds per m²:

 R1 8
 R2 12
2. **K** Potassium, kg K:

 K0 0
 K1 850
3. **N** Nitrogen, kg N:

 N0 0
 N1 6

Experimental diary:

03-Jun-00 : B : : Glyfos at 4.0 l in 200 l.
07-Jun-00 : B : : Rotary harrowed.
08-Jun-00 : T : K1 : Muriate of potash at 1700 kg.
 : T : R1 : Antonil, tr. Apron, drilled at 8 seeds/m² with the
 Nodet Gougis drill.
 : T : R2 : Antonil, tr. Apron, drilled at 12 seeds/m² with the Nodet
 Gougis drill.
22-Jun-00 : T : N1 : 34.5% N at 20 kg.
11-Oct-00 : B : : Hand harvested.

Previous crops: W. wheat 1998, s. barley 1999.

00/R/SU/1

GRAIN TONNES/HECTARE

**** Tables of means ****

K	K0	K1	Mean
SEEDRATE			
R1	2.63	1.50	2.06
R2	2.72	2.34	2.53
Mean	2.68	1.92	2.30

N	N0	N1	Mean
SEEDRATE			
R1	2.06	2.06	2.06
R2	2.44	2.62	2.53
Mean	2.25	2.34	2.30

N	N0	N1	Mean
K			
K0	2.68	2.67	2.68
K1	1.82	2.02	1.92
Mean	2.25	2.34	2.30

	N	N0	N1
SEEDRATE	K		
R1	K0	2.70	2.56
	K1	1.42	1.57
R2	K0	2.67	2.78
	K1	2.21	2.46

*** Standard errors of differences of means ***

SEEDRATE	K	N	SEEDRATE
			K
0.253	0.253	0.253	0.357

SEEDRATE	K	SEEDRATE
N	N	K
		N
0.357	0.357	0.505

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	7	0.505	22.0
GRAIN MEAN DM% *			
PLOT AREA HARVESTED	0.00030		