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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

Rothamsted Research (2001) *00/R/SU/1 N, K and Density - Sunflowers* ; Yields Of The Field Experiments 2000, pp 164 - 165 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

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 m<sup>2</sup>:  
    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 :                      : Glyphos 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/m<sup>2</sup> with the Nodet Gougis drill.
- : T : R2                    : Antonil, tr. Apron, drilled at 12 seeds/m<sup>2</sup> 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 \*\*\*\*

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

<b>N</b>	N0	N1	Mean
<b>SEEDRATE</b>			
R1	2.06	2.06	2.06
R2	2.44	2.62	2.53
Mean	2.25	2.34	2.30

<b>N</b>	N0	N1	Mean
<b>K</b>			
K0	2.68	2.67	2.68
K1	1.82	2.02	1.92
Mean	2.25	2.34	2.30

<b>SEEDRATE</b>	<b>N</b>	N0	N1
	<b>K</b>		
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 \*\*\*

<b>SEEDRATE</b>	<b>K</b>	<b>N</b>	<b>SEEDRATE</b>
			<b>K</b>
0.253	0.253	0.253	0.357

<b>SEEDRATE</b>	<b>K</b>	<b>SEEDRATE</b>
	<b>N</b>	<b>K</b>
		<b>N</b>
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		