

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 2000

[Full Table of Content](#)



---

### 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		