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# Yields of the Field Experiments 1991



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# 91/R/SU/2 Bird Repellent - Sunflowers

# **Rothamsted Research**

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#### 91/R/SU/2

#### SUNFLOWERS

#### BIRD REPELLANT

Object: To study the effects of applying two rates of a saponin, at two times, on damage by birds to and yields of sunflowers - Great Harpenden I.

Sponsor: V.J. Church.

Design: 5 x 5 quasi-complete Latin square.

Whole plot dimensions:  $3.5 \times 10.0$ .

#### Treatments:

SAP R T Rates and times of applying a saponin (as weight of quinoa husk):

NO	NE	None				
S1	E	51	kg	applied	8 Aug, 1993	1
S1	L	51	kg	applied	28 Aug	
S2	E	57	kg	applied	8 Aug	
S2	L	57	kg	applied	28 Aug	

- NOTES: (1) On S1 plots saponin was applied as ground quinoa husk in 860 l/ha.
  - (2) On S2 plots saponin was applied as ground quinoa husk as a dry dust.

Basal applications: Manures: (0:16:36) at 980 kg. (12:20:20) at 380 kg. Weedkillers: Trifluralin at 1.1 kg in 200 l. Linuron at 0.50 kg, in 400 l.

Seed: Allegro, sown at 9 seeds per square metre.

Cultivations, etc.:- First PK applied: 3 Sept, 1990. Ploughed: 11 Dec.
NPK applied: 11 Apr, 1991. Heavy spring-time cultivated: 24 Apr.
Rotary harrowed, trifluralin applied, rotary harrowed, seed sown,
rolled: 26 Apr. Linuron applied: 3 May. Hand harvested: 10 Sept.
Previous crops: W. barley 1989 and 1990.

NOTE: Growth stage and bird damage was monitored twice weekly. Rainfall was recorded after repellant application. Disease was assessed before harvest and seed moisture measured on three occasions before harvest.

## 91/R/SU/2

## GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

NONE 1.91 S1 E 2.08 S1 L 1.84 S2 E 1.80 S2 L 2.03 Mean 1.93

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

SAP R T 0.115

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

Stratum d.f. s.e. cv%

ROW.COL 12 0.182 9.4

GRAIN MEAN DM% 62.4

PLOT AREA HARVESTED 0.00150