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Yields of the Field Experiments 1991

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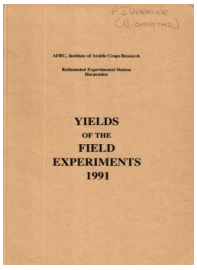

91/R/SU/2 Bird Repellent - Sunflowers

Rothamsted Research

Rothamsted Research (1992) *91/R/SU/2 Bird Repellent - Sunflowers ;* Yields Of The Field Experiments 1991, pp 161 - 162 **- DOI: https://doi.org/10.23637/ERADOC-1-46**

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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 x 10.0.

Treatments:

SAP R T	Rates and times of applying a saponin (as weight of quinoa husk):
NONE	None
S1 E	51 kg applied 8 Aug, 1991
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-tine 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.

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91/R/SU/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SAP R T	
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

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