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## Yields of the Field Experiments 1994

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### 94/R/BS/1 Triasulfuron Dose and Weed Density - S. Barley

#### Rothamsted Research

Rothamsted Research (1995) *94/R/BS/1 Triasulfuron Dose and Weed Density - S. Barley* ; Yields Of The Field Experiments 1994, pp 107 - 109 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/R/BS/1

SPRING BARLEY

TRIASULFURON DOSE AND WEED DENSITY

**Object:** To study the effects of suppressed weeds on the growth and yield of s. barley - Webbs.

**Sponsor:** P.J.W. Lutman.

**Design:** 2 randomised blocks of 2 x 5 x 4 plots.

**Whole plot dimensions:** 3.0 x 14.0.

**Treatments:**

1. **WEED SP** Weed species sown:

SM	<i>Stellaria media</i> (chickweed)
SA	<i>Sinapis arvensis</i> (charlock)

2. **WEED DEN** Weed density, plants per m<sup>2</sup>:

	SM	SA
D0	0	0
D1	69	19
D2	125	32
D3	197	71
D4	454	143

3. **HERBICIDE** Rate of triasulfuron, g active ingredient:

H0	None
H1	2.5
H2	5.0
H3	7.5

**NOTE:** Target weed densities, plants per m<sup>2</sup>:

SM: 0, 100, 200, 400 and 800

SA: 0, 50, 100, 200 and 400

**Experimental diary:**

03-Nov-93 : B : Ploughed.  
18-Apr-94 : B : Rotary harrowed.  
: T : **WEED SP:** Weed seeds broadcast by hand.  
: B : Rotary harrowed, Alexis, dressed Panocrine Plus, drilled at 350 seeds per m<sup>2</sup>.  
10-May-94 : B : 34.5% N at 435 kg.  
02-Jun-94 : T : **HERBICIDE** H1: Logran 20 WG at 12.5 g in 220 l.  
: T : **HERBICIDE** H2: Logran 20 WG at 25.0 g in 220 l.  
: T : **HERBICIDE** H3: Logran 20 WG at 37.5 g in 220 l.  
23-Jun-94 : B : Derosal WDG at 312.5 g with Dorin at 1.0 l in 260 l.  
09-Aug-94 : B : Combine harvested.

Previous crops: S. barley 1992 and 1993.

94/R/BS/1

NOTES: (1) Crop and weed dry weights were measured in early and late June and in late July.  
 (2) Yields, cleaned of weed seeds, are presented.

GRAIN TONNES/HECTARE

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

WEED DEN	D0	D1	D2	D3	D4	Mean
WEED SP						
SM	5.35	5.09	5.36	5.03	5.14	5.19
SA	5.24	5.26	4.83	5.12	4.93	5.08
Mean	5.30	5.18	5.10	5.07	5.04	5.14

HERBCIDE	H0	H1	H2	H3	Mean
WEED SP					
SM	4.94	5.25	5.25	5.34	5.19
SA	4.72	5.23	5.23	5.12	5.08
Mean	4.83	5.24	5.24	5.23	5.14

HERBCIDE	H0	H1	H2	H3	Mean
WEED DEN					
D0	5.03	5.45	5.32	5.38	5.30
D1	4.93	5.49	5.01	5.27	5.18
D2	4.86	5.19	5.31	5.03	5.10
D3	4.80	4.94	5.31	5.23	5.07
D4	4.53	5.14	5.25	5.23	5.04
Mean	4.83	5.24	5.24	5.23	5.14

WEED SP	WEED DEN	HERBCIDE	H0	H1	H2	H3
SM	D0		5.14	5.42	5.42	5.42
	D1		4.79	5.34	4.96	5.26
	D2		5.15	5.51	5.46	5.32
	D3		4.69	4.79	5.21	5.41
	D4		4.91	5.19	5.18	5.27
SA	D0		4.92	5.49	5.21	5.34
	D1		5.06	5.63	5.07	5.29
	D2		4.56	4.87	5.16	4.75
	D3		4.92	5.10	5.41	5.05
	D4		4.14	5.09	5.32	5.18

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

WEED SP	WEED DEN	HERBCIDE	WEED SP WEED DEN
0.068	0.108	0.097	0.153

WEED SP HERBCIDE	WEED DEN HERBCIDE	WEED SP WEED DEN HERBCIDE
0.137	0.216	0.306

94/R/BS/1

GRAIN TONNES/HECTARE

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	39	0.306	6.0

GRAIN MEAN DM% 87.7

PLOT AREA HARVESTED 0.00276