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# Yields of the Field Experiments 1983

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## 83/R/CS/212 Seasonal Effects of Take-all - S. Beans, W. Wheat

### Rothamsted Research

Rothamsted Research (1984) *83/R/CS/212 Seasonal Effects of Take-all - S. Beans, W. Wheat* ; Yields Of The Field Experiments 1983, pp 130 - 131 - DOI: <https://doi.org/10.23637/ERADOC-1-44>

83/R/CS/212

# SEASONAL EFFECTS OF TAKE-ALL

Object: To study the incidence of take-all (*Gaeumannomyces graminis*) in continuous w. wheat and in first and second w. wheats after a break - Great Harpenden I.

Sponsor: D. Hornby.

The sixth year, s. beans, w. wheat.

For previous years see 78-82/R/CS/212.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 5.33 x 31.4.

Treatments:

PREVCROP                      Previous crops before w. wheat 1983:

|         | 1978 | 1979 | 1980 | 1981 | 1982 |
|---------|------|------|------|------|------|
| CONT W  | W    | W    | W    | W    | W    |
| FIRST W | BE   | W    | W    | BE   | W    |
| BEANS   | W    | BE   | W    | W    | BE   |

BE = s. beans, W = w. wheat

NOTE: An additional crop sequence was in s. beans 1983, yields not taken.

Standard applications:

W. wheat: Manures: (0:20:20) at 310 kg, combine drilled. 'Nitro-Chalk' at 350 kg. Weedkiller: Methabenzthiazuron at 3.2 kg in 250 l.

Seed: W. wheat: Avalon, sown at 200 kg.

S. beans: Minden, sown at 280 kg.

Cultivations, etc.:-

Both crops: Ploughed: 9 Sept, 1982.

W. wheat: Rotary harrowed, PK applied, seed sown: 23 Sept. Weedkiller applied: 24 Sept. N applied: 16 Apr, 1983. Combine harvested: 10 Aug.

S. beans: Spring-tine cultivated: 8 Mar, 1983. Rotary harrowed, seed sown: 9 Mar. Combine harvested: 12 Aug.

NOTE: Take-all was assessed in soil and in wheat plants. Weed counts were made.

83/R/CS/212

W.WHEAT

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

| PREVCROP | CONT W | FIRST W | BEANS | MEAN |
|----------|--------|---------|-------|------|
|          | 7.80   | 5.83    | 8.05  | 7.23 |

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

| TABLE | PREVCROP |
|-------|----------|
| ----- | -----    |
| SED   | 0.549    |

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

| STRATUM  | DF | SE    | CV% |
|----------|----|-------|-----|
| BLOCK.WP | 4  | 0.672 | 9.3 |

GRAIN MEAN DM% 87.0

PLOT AREA HARVESTED 0.00434