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Yields of the Field Experiments 1975

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75/ R/CS/110 - Fertiliser & Fym - Barley

Rothamsted Research

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75/R/CS/110

FERTILISER AND FYM

Object: To study the residual effects of a range of rates of NPK fertiliser and FYM applied to potatoes, on the yields of subsequent crops - Stackyard.

Sponsor: F.V. Widdowson.

The third year, spring barley.

For previous years see 73-74/R/CS/110.

Design: Single replicate in 3 blocks of 18 plots.

Whole plot dimensions: 4.27 x 16.2.

Treatments: All combinations of:-

1. Farmyard manure in 1973 (tonnes) to supply 377 kg N: FYM(73)

None	0
80	80
2. N and PK fertilisers in 1973 to give rates of nitrogen* (kg N): N(73)

188	188
377	377
565	565
3. Times of applying PK fertilisers in 1973: PK TIME(73)

All in autumn	AUTUMN
All in spring	SPRING
Half in autumn, half in spring	AUT/SPNG
4. Nitrogen fertiliser to barley in 1975 (kg N): N 75

None	0
50	50
100	100

* The ratio of N:P2O5:K2O was 1:1.5:1.5 for all N treatments.

Basal applications: Weedkiller: Dicamba with mecoprop and MCPA ('Tetralix Plus' at 7.0 l in 220 l).

Seed: Julia, dressed ethirimol, sown at 160 kg.

Cultivations, etc.: - Ploughed: 6 Dec, 1974. Spring-tine cultivated: 25 Feb, 1975. N applied, power harrowed and seed sown: 26 Feb. Weedkiller applied: 20 May. Combine harvested: 8 Aug.

75/R/CS/110

GRAIN TONNES/HECTARE

*** TABLES OF MEANS ***

N(73)	188	377	565	MEAN
FYM(73)				
0	2.84	3.14	3.01	2.99
80	3.59	3.60	3.97	3.72
MEAN	3.21	3.37	3.49	3.36

PKTIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
FYM(73)				
0	2.93	3.48	2.58	2.99
80	3.79	4.22	3.16	3.72
MEAN	3.36	3.85	2.87	3.36

PKTIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
N(73)				
188	3.38	3.61	2.65	3.21
377	3.07	4.09	2.94	3.37
565	3.63	3.84	3.01	3.49
MEAN	3.36	3.85	2.87	3.36

N75	0	50	100	MEAN
FYM(73)				
0	1.91	3.24	3.84	2.99
80	2.67	3.47	5.02	3.72
MEAN	2.29	3.36	4.43	3.36

N75	0	50	100	MEAN
N(73)				
188	1.76	3.32	4.55	3.21
377	2.40	3.36	4.35	3.37
565	2.70	3.38	4.39	3.49
MEAN	2.29	3.36	4.43	3.36

N75	0	50	100	MEAN
PKTIME(73)				
AUTUMN	2.28	3.22	4.57	3.36
SPRING	2.78	3.66	5.10	3.85
AUT/SPNG	1.80	3.19	3.62	2.87
MEAN	2.29	3.36	4.43	3.36

75/R/CS/110

GRAIN TONNES/HECTARE

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

TABLE	FYM(73)	N(73)	PKTIME(73)	N75
SED	0.184	0.226	0.226	0.226
TABLE	FYM(73) N(73)	FYM(73) PKTIME(73)	N(73) PKTIME(73)	FYM(73) N75
SED	0.319	0.319	0.391	0.319
TABLE	N(73) N75	PKTIME(73) N75		
SED	0.391	0.391		

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

STRATUM	DF	SE	CV%
BLOCK.WP	13	0.677	20.2

GRAIN MEAN DM% 87.1

75/R/CS/110

STRAW TONNES/HECTARE

*** TABLES OF MEANS***

N(73)	188	377	565	MEAN
FYM(73)				
0	1.06	1.27	1.33	1.22
80	1.51	1.87	1.82	1.73
MEAN	1.28	1.57	1.58	1.48
PKTIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
FYM(73)				
0	1.41	1.26	0.99	1.22
80	1.75	1.85	1.60	1.73
MEAN	1.58	1.56	1.30	1.48
PKTIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
N(73)				
188	1.38	1.36	1.11	1.28
377	1.56	1.74	1.41	1.57
565	1.81	1.57	1.36	1.58
MEAN	1.58	1.56	1.30	1.48
N75	0	50	100	MEAN
FYM(73)				
0	0.69	1.36	1.61	1.22
80	1.00	1.80	2.40	1.73
MEAN	0.84	1.58	2.01	1.48
N75	0	50	100	MEAN
N(73)				
188	0.59	1.39	1.87	1.28
377	0.94	1.70	2.06	1.57
565	1.00	1.65	2.08	1.58
MEAN	0.84	1.58	2.01	1.48
N75	0	50	100	MEAN
PKTIME(73)				
AUTUMN	1.03	1.62	2.08	1.58
SPRING	0.78	1.55	2.33	1.56
AUT/SPNG	0.71	1.56	1.61	1.30
MEAN	0.84	1.58	2.01	1.48

STRAW MEAN DM% 92.3

PLOT AREA HARVESTED 0.00460