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Yields of the Field Experiments 1991



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Rotations

Rothamsted Research

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LEY/ARABLE

Object: To compare the effects on soil fertility of rotations with or without leys - Woburn, Stackyard D.

Sponsor: P.R. Poulton.

The 54th year, leys, w. beans, w. wheat, s. barley.

For previous years see 'Details' 1967 & 1973 and 74-90/W/RN/3.

Design: 5 series of 8 plots, split for treatments other than rotations.

Whole plot dimensions: 8.53 x 40.7.

Treatments: All phases of four five-course rotations were originally present:

ROTATION

CLO	Clover/grass ley: All legume ley:	L, L, L, P, W SA, SA, SA, P, W until 1971 then CL, CL CL, P, W
A	Arable with roots:	P, R, C, P, W until 1971 then P, B, B, P, W
АН	Arable with hay:	P, R, H, P, W until 1971 then P, B, H, P, W
		rots, W = w. wheat, B = s. barley, = sainfoin ley, CL = red clover ley
	Rotations themselv	es followed different cycles:
	On four plots in e	ach block the rotations were repeated
		ach block arable rotations alternated with ley rotations
	From 1976 all the	rotations were changed on all phases
	except for the	first and second test crops in 1976:
LN 3	(Previous LEY) LN,	LN. LN. W. B
LC 3	(Previous CLO) LC,	
AF	(Previous A) F, F,	BE, W, B
AB	(Previous A H) B,	

LN1 to LN3 = three year grass ley with N, 1st year to 3rd year, LC = clover/grass ley no N, BE = beans (s. oats until 1980), F = fallow

Plots hitherto in alternating rotations were changed to test eight-year leys:

LLN LN, LN, LN, LN, LN, LN, LN, W, B LLC LC, LC, LC, LC, LC, LC, LC, W, B

LLN1 to LLN8 = eight year grass ley with N, first year to eighth year, similarly for LLC

The new scheme started by sowing these new leys in spring 1976 on four phases and in spring 1977 on the fifth phase (2nd test crop in 1976).

Yields are taken only from the leys and the test crops.

Treatments to first test crop w. wheat, all combinations of:

Whole plots

1. ROTATION Rotations:

LN 8

LN 3

LC 8

LC 3

AF

AB

1/2 plots

2. FYMRES65 Farmyard manure residues, last applied 1965:

NONE None

FYM 38 tonnes on each occasion

1/8 plots

N Nitrogen fertilizer (kg N) as 'Nitro-Chalk':

0

70

140

210

Treatments to second test crop s. barley, all combinations of:

Whole plots

1. ROTATION Rotations:

LN 8

LN 3

LC 8

LC 3 AF

AB

1/2 plots

2. FYMRES64 Farmyard manure residues, last applied 1964:

NONE None

FYM 38 tonnes on each occasion

1/8 plots

N Nitrogen fertilizer (kg N) as 'Nitro-Chalk':

60 120

120 180

Treatments to leys:

FYM RES Farmyard manure residues:

NONE None

FYM 38 tonnes on each occasion, last applied 1963 to 1st and 6th year leys, 1962 to 2nd and 7th year leys, 1966 to 3rd and 8th year leys, 1965 to 4th year leys, 1964 to 5th year leys

Corrective K dressings (kg K2O) as muriate of potash, applied to first test crop w. wheat and long-term leys in the wheat block, applied: 13 Mar, 1991:

Continuous rotations	No FYM half plots	FYM half plots
LN	0	0
LC	0	0
AF	295	180
AB	180	180
Ex-alternating rotations		
LN 8 ploughed for w. wheat	0	0
LN 8 not ploughed	100	35
LC 8 ploughed for w. wheat	0	0
LC 8 not ploughed	0	0

Standard applications: -

Grass ley and clover/grass ley, 1st year: Manures: (0:16:36) at 470 kg. N at 75 kg to grass ley as 'Nitram', N at 54 kg to clover/grass ley as 'Nitro-Chalk'. (25:0:16) at 300 kg to grass ley in spring and after the first cut. K2O at 54 kg to clover/grass ley in spring and after the first cut.

Grass ley, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th years: Manures:
Magnesian limestone at 5.0 t to 5th year only. (0:16:36) at
470 kg, (25:0:16) at 300 kg in spring and after the first cut.

Clover/grass ley, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th years:
Manures: Magnesian limestone at 5.0 t to 5th year only.
(0:16:36) at 470 kg, K20 at 54 kg in spring and after the first cut.

Standard applications:-

- S. barley, 1st and 2nd treatment crops: Manures: (20:10:10) at 400 kg. Weedkiller: Metsulfuron-methyl at 6.0 g applied with the fungicide in 200 l. Fungicide: Tridemorph at 0.26 kg.
- W. beans, 3rd treatment crop: Manures: (0:24:24) at 170 kg. Weedkillers: Simazine at 0.14 kg and trietazine at 0.97 kg in 220 l. Fungicide: Chlorothalonil at 1.5 kg applied with the insecticide in 300 l. Insecticide: Pirimicarb at 0.14 kg.

Fallow, 1st and 2nd treatment years: No applications.

- W. wheat, 1st test crop: Manures: (0:24:24) at 260 kg. Weedkillers: Glyphosate at 0.36 kg in 220 l. Diflufenican at 0.10 kg and isoproturon at 1.0 kg applied with the deltamethrin in 220 l. Fungicides: Fenpropimorph at 0.38 kg in 210 l and on a second occasion with chlorothalonil at 0.49 kg and flutriafol at 0.078 kg in 300 l. Insecticide: Deltamethrin at 5.0 g. Carbofuran at 7.5 kg. Desiccant: Glyphosate at 1.4 kg in 200 l.
- S. barley, 2nd test crop: Manures: Magnesian limestone at 5.0 t. (0:24:24) at 260 kg. Weedkiller: Metsulfuron-methyl at 6.0 g applied with the fungicide in 200 l. Fungicide: Tridemorph at 0.26 kg. Insecticide: Carbofuran at 7.5 kg.
- Seed: Grass ley: Stella meadow fescue at 15 kg, RVP Erecta timothy at 15 kg, mixture sown at 30 kg.
 - Clover/grass ley: Stella meadow fescue at 14 kg, RVP Erecta timothy at 14 kg, Huia white clover at 3.0 kg, mixture sown at 30 kg.
 - S. barley: Klaxon, dressed triadimenol and fuberidazole, sown at 135 kg.
 - W. beans: Banner sown at 120 kg, (21 seeds per square metre).
 - W. wheat: Mercia sown at 150 kg.

Cultivations, etc.:-

Treatment crops:

- Grass ley and clover/grass ley, 1st year: Ploughed: 21 Aug, 1990. N, P and K applied: 28 Aug. Rotary harrowed with crumbler attached, seed sown, rolled: 29 Aug. Spring manures applied: 25 Mar, 1991. Cut: 4 June. Produce removed: 11 June. Second manures applied: 19 June. Cut: 9 Sept. Produce removed: 17 Sept.
- Grass ley and clover/grass ley, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th years: Magnesian limestone applied to 5th year only: 19 Aug, 1990. Spring manures applied: 22 Mar, 1991. Cut: 4 June. Produce removed: 11 June. Second manures applied: 19 June. Cut: 9 Sept. Produce removed: 17 Sept.
- S. barley, 1st and 2nd treatment crops: Ploughed: 21 Aug, 1990 and 20 Mar, 1991. N, P and K applied, rotary harrowed, seed sown: 22 Mar. Weedkiller and fungicide applied: 24 May. Combine harvested: 14 Aug.
- W. beans, 3rd treatment crop: P and K applied: 28 Sept, 1990. Disced, seed broadcast, ploughed: 23 Oct. Weedkiller applied: 21 Nov. Fungicide and insecticide applied: 10 July, 1991. Combine harvested: 3 Sept.
- Fallow, 1st and 2nd treatment years: Ploughed 1st year only: 21 Aug, 1990. Disced 2nd year only: 23 Oct. Ploughed: 20 Mar, 1991. Rotary cultivated: 5 July.

Cultivations, etc.:-

Test crops:

- W. Wheat, 1st test crop: Glyphosate applied: 22 Aug, 1990. Subsoiled with tines 1.5 m apart and 0.40 m deep: 20 Sept. Rolled, disced and ploughed: 21 Sept. P, K and carbofuran applied, rotary harrowed with crumbler attached, seed sown: 28 Sept. Diflufenican, isoproturon and deltamethrin applied: 8 Nov. Corrective K applied: 13 Mar, 1991. N treatments applied: 2 Apr. Fenpropimorph applied: 24 Apr and with chlorothalonil and flutriafol: 20 June. Desiccant applied: 12 Aug. Combine harvested: 21 Aug.
- S. barley, 2nd test crop: Magnesian limestone applied: 19 Aug, 1990. Ploughed: 23 Jan, 1991. P, K and carbofuran applied, rotary harrowed, seed sown: 15 Mar. N treatments applied: 18 Mar. Weedkiller and fungicide applied: 26 May. Combine harvested: 14 Aug.

LEYS

1ST CUTTING OCCASION (4/6/91) DRY MATTER TONNES/HECTARE

**** Tables of means ****

FYM RES	NONE	FYM	Mean
LEY			
LC1	2.02	2.85	2.43
LC2	3.07	3.41	3.24
LC3	5.35	5.79	5.57
LN1	5.05	5.03	5.04
LN2	4.82	6.40	5.61
LN3	4.63	4.79	4.71
LLC1	2.34	2.35	2.34
LLC2	3.46	3.64	3.55
LLC3	5.04	4.71	4.87
LLC4	4.72	4.10	4.41
LLC5	2.94	1.78	2.36
LLC6	3.14	3.88	3.51
LLC7	3.89	4.57	4.23
LLC8	5.13	4.62	4.88
LLN1	4.29	4.02	4.15
LLN2	5.63	6.21	5.92
LLN3	4.78	4.84	4.81
LLN4	4.36	4.76	4.56
LLN5	4.64	4.51	4.58
LLN6	5.78	5.78	5.78
LLN7	5.93	5.39	5.66
LLN8	5.54	6.17	5.85
Mean	4.39	4.53	4.46

1ST CUT MEAN DM% 23.5

LEYS

2ND CUTTING OCCASION (9/9/91) DRY MATTER TONNES/HECTARE

**** Tables of means ****

FYM RES	NONE	FYM	Mean
LEY			
LC1	3.05	2.91	2.98
LC2	3.63	3.89	3.76
LC3	3.24	4.36	3.80
LN1	3.33	3.88	3.61
LN2	4.50	4.14	4.32
LN3	5.18	5.30	5.24
LLC1	3.50	2.56	3.03
LLC2	3.75	3.92	3.83
LLC3	3.21	3.23	3.22
LLC4	4.49	4.26	4.38
LLC5	2.92	1.27	2.09
LLC6	0.52	0.62	0.57
LLC7	3.77	2.71	3.24
LLC8	5.02	4.53	4.77
LLN1	4.27	3.49	3.88
LLN2	3.27	3.73	3.50
LLN3	4.43	4.13	4.28
LLN4	5.80	5.73	5.76
LLN5	3.27	3.89	3.58
LLN6	3.31	3.59	3.45
LLN7	3.47	3.65	3.56
LLN8	4.90	5.44	5.17
Mean	3.76	3.69	3.73

2ND CUT MEAN DM% 32.8

LEYS

TOTAL OF 2 CUTTING OCCASIONS DRY MATTER TONNES/HECTARE

**** Tables of means ****

FYM RES	NONE	FYM	Mean
LEY			
LC1	5.07	5.76	5.41
LC2	6.70	7.29	7.00
LC3	8.59	10.14	9.37
LN1	8.38	8.91	8.64
LN2	9.32	10.54	9.93
LN3	9.80	10.09	9.95
LLC1	5.84	4.91	5.37
LLC2	7.20	7.56	7.38
LLC3	8.25	7.94	8.09
LLC4	9.21	8.36	8.78
LLC5	5.86	3.05	4.46
LLC6	3.66	4.50	4.08
LLC7	7.66	7.28	7.47
LLC8	10.15	9.15	9.65
LLN1	8.56	7.51	8.03
LLN2	8.89	9.94	9.42
LLN3	9.21	8.97	9.09
LLN4	10.15	10.49	10.32
LLN5	7.91	8.40	8.16
LLN6	9.09	9.37	9.23
LLN7	9.39	9.05	9.22
LLN8	10.44	11.61	11.03
Mean	8.15	8.22	8.19

TOTAL OF 2 CUTS MEAN DM% 28.1

PLOT AREA HARVESTED 0.00200

91/W/RN/3

W.WHEAT 1ST TEST CROP

GRAIN TONNES/HECTARE

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

FYMR	ES65	NONE	FYM	Mean		
ROTA	TION					
	LN 8	8.62	8.46	8.54		
	LN 3	9.27	8.71	8.99		
	LC 8	8.63	8.68	8.66		
	LC 3	9.01	9.38	9.20		
	AF	7.47	8.42	7.95		
	AB	8.00	8.61	8.30		
	Mean	8.50	8.71	8.61		
	N	0	70	140	210	Mean
ROTA	TION					
	LN 8				9.75	8.54
	LN 3	6.75	8.85	9.96	10.41	8.99
	LC 8	6.08	8.81	9.63	10.10	8.66
	LC 3		9.37		10.48	9.20
	AF	3.46	8.00	9.75	10.57	7.95
	AB	4.48	8.56	9.94	10.23	8.30
	Mean	5.53	8.74	9.90	10.26	8.61
	N	0	70	140	210	Mean
	ES65					
	NONE	5.42	8.60	9.92	10.06	8.50
	FYM	5.64	8.87	9.87	10.45	8.71
	Mean	5.53	8.74	9.90	10.26	8.61
		N	0	70	140	210
	TION	FYMRES65				
	LN 8	NONE	5.81			9.69
		FYM	6.07			9.81
	LN 3	NONE	7.61	8.87		10.21
		FYM	5.88			10.61
	LC 8	NONE	6.33			10.01
		FYM	5.83	8.88	9.83	10.20
	LC 3	NONE	6.12	9.36		
		FYM	6.82	9.38		
	AF	NONE	2.63	7.51		
		FYM	4.30	8.48		10.82
	AB	NONE	4.02	8.07		9.89
		FYM	4.93	9.05	9.88	10.58

GRAIN MEAN DM% 87.3

PLOT AREA HARVESTED 0.00183

S.BARLEY 2ND TEST CROP

GRAIN TONNES/HECTARE

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

FYMRES 64	NONE	FYM	Mean		
ROTATION					
LN 8	6.51	6.60	6.56		
LN 3	6.40	6.68	6.54		
LC 8	6.86	6.99	6.92		
LC 3	6.74	6.94	6.84		
AF	5.53	5.43	5.48		
AB	5.87	5.75	5.81		
Mean	6.32	6.40	6.36		
N	0	60	120	180	Mean
ROTATION					
LN 8	5.46	6.87	7.05	6.84	6.56
LN 3	4.68	6.69	7.41	7.38	6.54
LC 8	5.78	7.12	7.61	7.18	6.92
LC 3	5.26	6.99	7.63	7.47	6.84
AF	1.75	5.92	6.94	7.31	5.48
AB	2.73	5.94	7.22	7.33	5.81
Mean	4.28	6.59	7.31	7.25	6.36
N	0	60	120	180	Mean
FYMRES 64					
NONE	4.16	6.55	7.22	7.34	6.32
FYM	4.40	6.63	7.40	7.16	6.40
Mean	4.28	6.59	7.31	7.25	6.36
	N	0	60	120	180
ROTATION	FYMRES64				
LN 8	NONE	5.08	6.84	7.00	7.12
	FYM	5.85	6.90	7.10	6.56
LN 3	NONE	4.54	6.51	7.15	7.42
	FYM	4.83	6.87	7.68	7.34
LC 8	NONE	5.63	7.22	7.60	6.98
	FYM	5.93	7.02	7.62	7.39
LC 3	NONE	5.02	6.72	7.70	7.51
	FYM	5.50	7.26	7.57	7.43
AF	NONE	1.89	5.90	6.73	7.60
	FYM	1.62	5.93	7.15	7.03
AB	NONE	2.80	6.09	7.14	7.44
	FYM	2.66	5.79	7.31	7.22

GRAIN MEAN DM% 86.5

PLOT AREA HARVESTED 0.00183

ORGANIC MANURING

Object: To study, from crop yields and soil analyses, the effects of a range of types of organic matter - Woburn, Stackyard B.

Sponsor: P.R. Poulton.

The 27th year, w. beans, w. wheat.

For previous years see 'Details' 1973 and 74-90/W/RN/12.

Design for each crop: 2 blocks of 8 plots split into 6.

Whole plot dimensions: 8.53 x 30.5.

1 TOPATION Provious treatments.

Treatments: From 1966 to 1971 the experiment had a preliminary period designed to build up organic matter, derived from different sources. An arable rotation was started on two blocks in 1972 and the remaining two blocks in 1973. After a period of testing the residues built up, a further period of accumulation was started; on two blocks (which included ley sown in 1979) in 1981 and on the other two (which included ley sown in 1980) in 1982. On the first pair leys were ploughed for 1st test crop in 1987, on the second pair for 1st test crop in 1988.

4th test crop w. beans, after w. wheat 1988, potatoes 1989, w. wheat 1990 tested all combinations of:

Whole plots

1.	TREATMNT	Previous treatments:
	LC 8 GM	Eight-year clover/grass ley until 1987, green manure in the preliminary period
	LC 8 PT	As above, peat in the preliminary period
	TC 6 TC	Six-year clover/grass ley until 1987, clover/grass ley in the preliminary period
	LC 6 LN	As above, grass ley with N in the preliminary period
	FYM	Farmyard manure annually 1981 to 1986 and in the preliminary period
	STRAW	Straw in both periods
	FERT-FYM ·	Fertilizers only in both periods, rates of P, K & Mg equivalent to amounts in FYM
	FERT-STR	Fertilizers only in both periods, rates of P, K & Mg equivalent to amounts in straw (+P)
Sul	b plots	
2.	N RES	Residues of nitrogen fertilizer to w. wheat in 1990 (kg N):
		1-5 -1/ -
	(0) (50)	
	(100)	
	(150)	
	(200)	
	(250)	

5th test crop w. wheat, after w. wheat 1987, potatoes 1988, w. wheat 1989, w. beans 1990 tested all combinations of:

Whole plots

1.	TREATMNT	Previous treatments:
	LC 8 GM	Eight-year clover/grass ley until 1986, green manure in the preliminary period
	LC 8 PT	As above, peat in the preliminary period
	LC 6 LC	Six-year clover/grass ley until 1986, clover/grass ley in the preliminary period
	LC 6 LN	As above, grass ley with N in the preliminary period
	FYM	Farmyard manure annually 1981 to 1985 and in the preliminary period
	STRAW	Straw in both periods
	FERT-FYM	Fertilizers only in both periods, rates of P, K and Mg equivalent to amounts in FYM
	FERT-STR	Fertilizers only in both periods rates of P, K and Mg equivalent to amounts in straw (+P)
Sul	o plots	
2.	N	Nitrogen fertilizer to w. wheat in 1991 (kg N as 'Nitro-Chalk'):
	0	
	50	
	100	
	150	
	200	
	250	

Standard applications:

4th test crop:

W. beans: Manures: (0:16:36) at 560 kg. Manganese at 0.16 kg in 300 l. Weedkillers: Glyphosate at 0.54 kg in 220 l. Simazine at 0.14 kg and trietazine at 0.97 kg in 220 l. Fungicides: Chlorothalonil at 1.5 kg applied with the pirimicarb in 300 l. Insecticides: Azinphos-methyl at 0.28 kg and demeton-S-methyl sulphone at 0.085 kg in 400 l. Pirimicarb at 0.14 kg.

5th test crop:

W. wheat: Manures: (0:16:36) at 560 kg. Manganese at 0.16 kg in 300 l. Weedkillers: Glyphosate at 0.54 kg in 220 l. Diflufenican at 0.10 kg and isoproturon at 1.0 kg applied with insecticide in 220 l. Mecoprop at 0.80 kg also applied with insecticide in 220 l. Fungicides: Fenpropimorph at 0.38 kg in 210 l, and on a second occasion with chlorothalonil at 0.49 kg and flutriafol at 0.078 kg in 300 l. Insecticide: Deltamethrin at 5.0 g on two occasions.

Seed: W. beans: Banner, sown at 120 kg.
W. wheat: Mercia, sown at 150 kg.

Cultivations, etc.:-

- W. beans: Glyphosate applied: 10 Sept, 1990. P and K applied: 27 Sept. Disced: 12 Oct. Seed broadcast, ploughed: 23 Oct. Remaining weedkillers applied: 21 Nov. Manganese applied: 9 May, 1991. Azinphos-methyl and demeton-S-methyl sulphone applied: 10 May. Chlorothalonil and pirimicarb applied: 10 July. Combine harvested: 3 Sept.
- W. wheat: Glyphosate applied: 10 Sept, 1990. Ploughed: 19 Sept. P and K applied, rotary harrowed with crumbler attached, seed sown: 27 Sept. Diflufenican, isoproturon and deltamethrin applied: 8 Nov. Mecoprop and deltamethrin applied: 30 Nov. Nitrogen treatments applied: 4 Apr, 1991. Fenpropimorph applied: 24 May. Manganese applied: 19 May. Fenpropimorph, chlorothalonil and flutriafol applied: 20 June. Combine harvested: 22 Aug.

W. BEANS

GRAIN TONNES/HECTARE

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

N RES	(0)	(50)	(100)	(150)	(200)	(250)	Mean
TREATMNT							
LC 8 GM	4.53	4.24	4.83	3.75	4.73	4.37	4.41
LC 8 PT	4.98	4.88	4.87	4.91	5.05	4.90	4.93
LC 6 LC	5.06	5.27	4.93	4.42	4.85	5.28	4.97
LC 6 LN	5.23	5.10	4.91	4.74	4.41	4.75	4.86
FYM	4.35	4.29	4.31	4.46	4.51	4.52	4.41
STRAW	4.81	4.88	4.85	4.81	4.68	5.18	4.87
FERT-FYM	4.06	4.08	4.14	4.15	4.16	4.70	4.21
FERT-STR	5.08	4.90	5.02	4.49	4.89	5.01	4.90
Mean	4.76	4.70	4.73	4.47	4.66	4.84	4.69

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

	TREATMNT		N RI	ES	TREAT	MNT	
					N	RES	
	0.461		0.15	51	0.	604	
Except when	comparing means	with	the	same		(s)	of
INDALITAL					٠.	720	

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

Stratum	d.f.	s.e.	CA8
BLOCK.WP	7	0.461	9.8
BLOCK . WP . SP	40	0.428	9.1

GRAIN MEAN DM% 86.3

SUB PLOT AREA HARVESTED 0.00192

W. WHEAT

GRAIN TONNES/HECTARE

**** Tables of means ****

N	0	50	100	150	200	250	Mean
TREATMNT							
LC 8 GM	4.45	7.09	8.73	9.49	9.52	9.59	8.15
LC 8 PT	4.52	7.35	8.77	9.55	9.51	9.68	8.23
LC 6 LC	4.39	7.78	9.05	9.60	9.58	9.76	8.36
LC 6 LN	4.73	8.46	9.12	9.57	9.49	9.85	8.54
FYM	4.41	7.22	8.71	9.90	9.79	10.26	8.38
STRAW	3.57	6.34	8.49	9.70	9.90	10.39	8.06
FERT-FYM	2.82	6.34	8.74	8.67	9.01	9.35	7.49
FERT-STR	3.20	6.66	7.40	8.67	8.98	9.74	7.44
Mean	4.01	7.15	8.63	9.39	9.47	9.83	8.08

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

		TREATMNT				N	TREATMNT	
							N	
			0.644		0.13	36	0.734	
Except	when	comparing	means	with	the	same	level(s)	of
TREATE	TMM						0.386	

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

Stratum	d.f.	s.e.	CV%	
BLOCK.WP	7	0.644	8.0	
BLOCK.WP.SP	40	0.386	4.8	

GRAIN MEAN DM% 87.6

STRAW TONNES/HECTARE

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

N	0	50	100	150	200	250	Mean
TREATMNT		-					
LC 8 GM	2.54	3.62	5.33	5.23	5.48	5.86	4.67
LC 8 PT	1.96	3.87	4.65	4.87	5.45	5.94	4.46
LC 6 LC	2.50	4.34	5.94	6.05	5.58	6.62	5.17
LC 6 LN	2.58	5.97	6.07	5.77	6.30	6.31	5.50
FYM	1.79	3.21	5.03	4.35	4.33	5.88	4.10
STRAW	1.98	2.06	4.63	3.53	4.37	5.24	3.63
FERT-FYM	1.73	3.00	3.60	3.80	4.75	3.19	3.35
FERT-STR	1.75	2.82	4.48	4.11	4.22	4.56	3.66
Mean	2.10	3.61	4.97	4.71	5.06	5.45	4.32

STRAW MEAN DM% 91.8

SUB PLOT AREA HARVESTED 0.00183