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ROTHAMSTED
RESEARCH

Collection of Plans for the Highfield Ley-arable Experiment

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Highfield Ley-arable 1980-90

Rothamsted Research

Rothamsted Research (1949-1990) *Highfield Ley-arable 1980-90* ; Collection Of Plans For The Highfield Ley-Arable Experiment, pp 32 - 43

1980

HIGHFIELD

80/R/R/N/1

32nd YEAR

LE1 - 11/10/82

KOTHAN'S ED

SPONSORS: Blocks 1-4 A.C. Tomlinson, 5-12 D.A. Slope

CROPPING

WHEAT (Blocks 1+4, 5+8)

Flanders, Test N

1, 2, 3. None, 50,

100, 150 kg/ha (-15, 5, 85, 134 kg N/ha)

Y.S. Yield, Sample Areas

NEW SEQUENCES (Blocks 6, 7, 10, 11, 12)

Lk Lucerne, v. r. f. v. s.

Lc Grass / clover

Rg Perennial Ryegrass

Rgt as Rg but not ploughed after 3 years

Bf Beans, m. inden

B Barley

O Oats

P Potatoes Pentland Crown (00)

W Wheat Flanders

TREATMENT CROPS (Blocks 9+3)

Lk Lucerne

Lm Grass / ley

Lc Grass / clover / ley

Sb Sugar beet

R Reseeded grass

G Old grass

[c] Ardo - old grass

133	135	137	139	141	143
RB	Rgt	Bf	W	Lk	Lc
134	136	138	140	142	144
(Lm)	(G)	(A)	(Rg)	(Lk)	(Lc)

12 NEW SEQUENCES (3rd year)

097	099	101	103	105	107	109	111	113	115	117	119
W	RG	Lc	Bf	Rgt	Lk	O	Rgt	Lk	Lc	B	RG
098	100	102	104	106	108	110	112	114	116	118	120
(Rg)	(Lk)	(Lc)	(A)	(G)	(Lm)	(A)	(G)	(Lm)	(Lc)	(Rg)	(Lm)

9 NEW SEQUENCES (2nd year)

121	123	125	127	129	131
O	RG	B	Lc	Rgt	Lk
122	124	126	128	130	132
(A)	(Lm)	(Rg)	(Lc)	(G)	(Lm)

11 NEW SEQUENCES (1st year)

049	051	053	055	057	059	061	063	065	067	069	071
W	Lc	Rgt	Rg	A	R	R	R	P	Rgt	B	
050	052	054	056	058	060	062	064	066	068	070	072
(Lk)	(Lc)	(G)	(Lm)	(A)	(R)	(R)	(Lm)	(Lc)	(A)	(G)	(R)

5 WHEAT (1st best crop)

073	075	077	079	081	083	085	087	089	091	093	095
Rgt	Lc	B	P	R	Lk	Lk	AR	A	Rgt	Lc	R
074	076	078	080	082	084	086	088	090	092	094	096
(G)	(Lc)	(R)	(A)	(Lm)	(Lm)	(Lm)	(R)	(A)	(G)	(Lc)	(Lm)

7 NEW SEQUENCES (2nd year)

085	087	089	091	093	095
W	Lc	Rgt	A	Rgt	Lc
086	088	090	092	094	096
(Lm)	(R)	(A)	(G)	(Lc)	(Lm)

8 WHEAT (1st best crop)

001	003	005	007	009	011	013	015	017	019	021	023
G	Lc	R	Lk	A	Lc	Lc	Lc	Lk	Sb	Lk	G
002	004	006	008	010	012	014	016	018	020	022	024
(Lk)	(Lc)	(G)	(Lm)	(A)	(Lc)	(Lc)	(Lc)	(Lm)	(Sb)	(Lk)	(G)

1 WHEAT (2nd best crop)

025	027	029	031	033	035	037	039	041	043	045	047
Lk	Sb	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk
026	028	030	032	034	036	038	040	042	044	046	048
(Lk)	(Sb)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)

3 TREATMENT CROPS (3rd year)

029	031	033	035	037	039	041	043	045	047
Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk	Lk
030	032	034	036	038	040	042	044	046	048
(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)	(Lk)

4 WHEAT (3rd best crop)

NOTE: R, G & etc. refers to year that reseeded (R) and old grass (G), first under arable crop (163 v 162 etc.) (F) (10): None, dung (residual treatments), c, g, n, none, N & K top dress in spring v after each cut except the last.

ROTHAMSTED KEY-ARABLE 33rd. YEAR. 81/R/RN/1 HIGHFIELD 1981

Sponsors: Blocks 1-4 A.E. Johnston, Blocks 5-12 Q

12 WHEAT (1st test crop)

133	135	137	139	141	143
-	3	1	1	1	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	1	3	1
RF	RF+	A	AR	L4	L4
134	136	138	140	142	144
3	1	3	3	2	2
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	2	-	3
(A)	(B)	(A)	(B)	(A)	(L4)

9 WHEAT (1st Test crop)

097	077	101	103	105	107
2	-	3	-	3	3
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	-	3	2	1	1
RF	RF	LC	A	RF+	L4
098	100	102	104	106	108
2	1	1	1	-	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	2	2	2
(RF)	(L4)	(LC)	(A)	(G)	(L4)

10 NEW SEQUENCES (2nd year)

109	111	113	115	117	119
P	RF+	L4	LC	B	RF
120	112	114	116	118	120
(A)	(G)	(L4)	(LC)	(B)	(L4)

11 NEW SEQUENCES (2nd year)

121	123	125	127	129	131
P	RF	B	LC	RF+	L4
122	124	126	128	130	132
(A)	(L4)	(B)	(LC)	(G)	(L4)

12 WHEAT (1st test crop)

133	135	137	139	141	143
-	3	1	1	1	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	1	3	1
RF	RF+	A	AR	L4	L4
134	136	138	140	142	144
3	1	3	3	2	2
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	2	-	3
(A)	(B)	(A)	(B)	(A)	(L4)

5 WHEAT (2nd test crop)

049	051	053	055	057	059
2	1	3	2	3	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	3	2	-	-	-
L4	LC	RF+	RF	A	RF
050	052	054	056	058	060
2	1	3	3	1	2
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	2	-	3
(L4)	(LC)	(G)	(L4)	(A)	(RF)

6 NEW SEQUENCES (3rd year)

061	063	065	067	069	071
RF	L4	LC	BE	RF+	W
072	074	076	078	080	082
(L4)	(L4)	(L4)	(A)	(B)	(RF)

7 NEW SEQUENCES (3rd year)

083	081	079	087	085	089
L4	RF	BE	AR	L4	RF
090	088	086	092	094	096
(L4)	(A)	(L4)	(RF)	(L4)	(RF)

8 WHEAT (2nd test crop)

097	077	079	087	085	089
2	-	1	1	2	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	-	3	2	3	-
L4	LC	W	AR	L4	RF
098	100	102	104	106	108
3	1	1	1	-	-
V+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	2	2	2
(L4)	(L4)	(RF)	(L4)	(L4)	(RF)

9 WHEAT (1st Test crop)

109	111	113	115	117	119
P	RF+	L4	LC	B	RF
120	112	114	116	118	120
(A)	(G)	(L4)	(LC)	(B)	(L4)

3 TREATMENT CROPS (3rd year)

025	027	029	031	033	035
LC	O	L4	L4	L4	L4
036	038	040	042	044	046
(L4)	(L4)	(L4)	(L4)	(L4)	(L4)

4 WHEAT (3rd Test Crop)

047	045	043	041	039	037
L4	LC	L4	L4	L4	L4
048	046	044	042	040	038
(L4)	(L4)	(L4)	(L4)	(L4)	(L4)

2 TREATMENT CROPS (3rd year)

021	023	025	027	029	031
L4	L4	L4	L4	L4	L4
032	034	036	038	040	042
(L4)	(L4)	(L4)	(L4)	(L4)	(L4)

1 WHEAT (3rd test crop)

001	003	005	007	009	011
L4	L4	L4	L4	L4	L4
012	014	016	018	020	022
(L4)	(L4)	(L4)	(L4)	(L4)	(L4)

TREATMENT CROPS (Blocks 2+3)

001	003	005	007	009	011
L4	L4	L4	L4	L4	L4
012	014	016	018	020	022
(L4)	(L4)	(L4)	(L4)	(L4)	(L4)

NOTE: R, G etc. refers to years reseeded (R) and old grass (G) first under arable crop (1913-1968 etc)
(F) (D) None, FYM (Residual treatments), C, N, None N+K top dressed in spring, and after each cut except the last.

ROTHAMSTED LEY-ARABLE 34th YEAR 82/R/RN/1 HIGHFIELD 1982

Sponsors: Blocks 1-4 A.E. Johnston, Blocks 5-12 D.B. Slope

CROPPING
 WHEAT (Blocks 5, 6, 7, 8, 9, 12)
 Flanders Test N
 - 1, 2, 3. None, 50, 100, 150 kg N/ha
 (None, 45, 89, 134 lb N/acre)
 Y, S. yield, sample area
 Sum of 176 slope (1984/ha)
 on 17 October

153	137	139	141	143
3	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S
1	2	1	3	1
RG	RG	RG	RG	RG
134	136	140	142	144
3	3	3	2	2
Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	2	3
3	2	2	2	3
(LN)	(A)	(R)	(L)	(LC)

099	101	103	105	107	109
3	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	3	1	1	1
RR	LC	R	RG+	LN	BE
098	100	102	104	106	108
3	2	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	2	2	2	2
(RR)	(LN)	(LC)	(A)	(G)	(LN)

112	114	116	118	120
RG+	LN	LC	W	RG
111	113	115	117	119
3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1
(G)	(LN)	(LC)	(R)	(LN)

121	123	125	127	129	131
BE	RG	W	LC	RG+	LN
122	124	126	128	130	132
(A)	(LN)	(R)	(LC)	(G)	(LN)

NEW SEQUENCES (Blocks 10+11)
 LN Lucerne, Vetch
 LC Grass / Clover
 RG Perennial Ryegrass
 RG+ AS RG, but not ploughed after 3 years
 BE Beans
 W Wheat - Flanders

TREATMENT CROPS (Blocks 1+4)
 LN Lucerne
 LN Grass ley
 LC Grass Clover ley
 R Reseeded grass
 G Old grass
 [G] Pseudo old grass
 H 1 year hay

TREATMENT CROPS (Block 203)
 Potatoes, Parland Corn
 - ploughed 22 April

NEW SEQUENCES (3rd year)
 11 NEW SEQUENCES (3rd year)

NEW SEQUENCES (3rd year)
 11 NEW SEQUENCES (3rd year)

049	051	053	055	057	059
2	3	3	2	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
LC	RG	RG	RG	A	RR
050	052	054	056	058	060
1	2	1	3	1	2
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	1	1	2	3	3
(LN)	(LC)	(LN)	(LN)	(A)	(R)

061	063	065	067	069	071
2	1	1	3	1	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	3	1	1	2
RG	LN	LC	A	RG+	RR
062	064	066	068	070	072
3	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	2	2	2	1
(LN)	(LN)	(LC)	(A)	(G)	(R)

073	075	077	079	081	083
3	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	2	2
RG+	LC	RR	A	RG	LN
074	076	078	080	082	084
1	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	1
(G)	(LC)	(R)	(A)	(LN)	(LN)

085	087	089	091	093	095
2	1	2	2	2	2
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	3	2	3	2	3
LN	RR	A	RG+	LC	RR
086	088	090	092	094	096
3	2	3	3	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	2
(LN)	(RR)	(A)	(R)	(LC)	(LN)

001	003	005	007	009	011
1	1	1	1	1	1
G	R	LC	LN	H	LC
002	004	006	008	010	012
1	1	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(LN)	(LN)	(LN)	(LN)	(LN)	(LN)

013	015	017	019	021	023
3	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
RR	(F)	(D)	(D)	(D)	(D)
014	016	018	020	022	024
3	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(F)	(F)	(D)	(D)	(D)	(D)

025	027	029	031	033	035
3	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(B)	(F)	(F)	(F)	(D)	(D)
026	028	030	032	034	036
2	3	3	3	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(G)	(D)	(F)	(F)	(F)	(F)

037	039	041	043	045	047
1	1	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
R	C	N	H	LN	LC
038	040	042	044	046	048
1	1	1	1	1	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	1	1	1	1
(LN)	(LN)	(LN)	(LN)	(LN)	(LN)

NOTE: R3+4 etc. refer to years recorded (R) and old grass (G) first under arable. Def (1963+1982 etc.)
 (F) (D) None; FYM (residual treatments); C, N, none No X top dressed in Spring, and after each cut except the last.

SEQUENCE

ROTHAMSTED 1983 35th YEAR 83/R/R/V/1 HONFIELD 1983

Spacings: Blocks - 4 of 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

CROPPING

WHEAT Blocks 5, 6, 7, 8, 9, 10, 11, 12

Flanders TEST N

1, 2, 3, None, 50, 100, 150 1/2 Ha

(None, 45, 89, 134 1/2 Ha)

Y/S, Yield, Sample Area

Sown on 11 November

must have been 1/2 1/2 - 17 Nov. to 2

TREATMENT CROPS Blocks 1 + 4

Lk Intense

Ln Grass ley

Lc Grass Clover ley

R Reseeded grass

G Old grass

[G] Pseudo old grass

SB Sugar beet

TEST CROP Blocks 2 + 3

Wheat: Flanders

Sown on 18 November

NOTE: RG + pots are not Flanders

Direct drilled or blocks 6, 7,

10/11. Soil are ploughed and

compacted, sown on 11/12.

5, 18, 9 + 12.

NOTE: R₁ + G₁ etc. refers to years reseeded (R₁ and old grass (G₁) first under arable crop (1963 + 1968 etc.)

(FID), None, FYM (residual treatments), C, N, None, N+K top dressed in Spring and 1/2R each cut except the last

Table with 13 columns (133-143) and 2 rows of crop treatments.

12 WHEAT (3rd test crop)

Table with 13 columns (109-119) and 2 rows of crop treatments.

10 WHEAT (1st Test Crop)

Table with 13 columns (121-131) and 2 rows of crop treatments.

11 WHEAT (1st Test Crop)

Table with 13 columns (097-107) and 2 rows of crop treatments.

9 WHEAT (3rd test crop)

Table with 13 columns (073-083) and 2 rows of crop treatments.

7 WHEAT (2nd test crop)

Table with 13 columns (001-011) and 2 rows of crop treatments.

5 WHEAT (4th test crop)

Table with 13 columns (025-035) and 2 rows of crop treatments.

8 WHEAT (4th test crop)

Table with 13 columns (025-035) and 2 rows of crop treatments.

3 WHEAT (1st test crop)

TREATMENT CROPS (2nd year) 2 WHEAT (1st year) and test crop

ROTHAMSTED LEY-FARABLE 36H YL NR 84/R/RN/1 110H/1220 1784

Sponsors: Blocks 1-4 A.E. Johns-ston, Blocks 6, 7, 9, 12, R.J. Gooding

CROPPING

WHEAT Blocks 6, 7, 9, 12
 Flanders Tree N
 - 1, 2, 3, None, 50, 100, 150 kg/ha
 (None, 45, 87, 134 kg/ha)
 Y, S, Yield, sample area.

WHEAT Blocks 5, 8, 10, 11
 Sown solid uniform N
 No yields

12 WHEAT (4th test crop)

133	135	137	139	141	143
-	3	1	-	1	-
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	2	-	1	3	1
RG	RG+	A	AR	LH	LC
134	136	138	140	142	144
3	1	3	3	2	2
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	-	2	2	-	3
(LN)	(GN)	(R)	(RN)	(LH)	(LC)

9 WHEAT (4th test crop)

097	099	101	103	105	107
2	3	3	-	3	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
-	3	2	3	1	1
AR	RR	LC	A	RG+	LH
098	100	102	104	106	108
3	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	2	2	2
(RN)	(LN)	(LC)	(R)	(RG)	(LH)

10 WHEAT

073	075	077	079	081	083
3	-	3	-	-	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	1	2	2
RG+	LC	AR	A	RG	LH
074	076	078	080	082	084
-	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	-
(GN)	(LC)	(R)	(A)	(LN)	(LH)

11 WHEAT

121	123	125	127	129	131
A	RG	AR	LC	RG+	LH
122	124	126	128	130	132
NO YIELDS					
(R)	(LN)	(RG)	(LC)	(GN)	(LH)

TREATMENT CROPS Blocks 1+4

- LN lucerne
- LC Grass ley
- R Grass clover ley
- G Reseeded grass
- O Old grass
- [G] Pseudo old grass
- O Oats

TEST CROP Blocks 2+3

Wheat Flanders, 18 Oct 60

1 TREATMENT CROPS (3rd year)

001	003	005	007	009	011
-	112	-	-	-	-
G	-	R	-	-	-
n/c	-	n/c	-	-	-
002	004	006	008	010	012
-	112	-	-	-	-
-	-	-	-	-	-
(F)D	(F)D	(F)D	(F)D	(F)D	(F)D

2 WHEAT (P.W.M) 3rd test crop

013	015	017	019	021	023
-	112	-	-	-	-
-	R	213	211	211	G
-	-	(F)D	(F)D	(F)D	C, N
014	016	018	120	022	024
-	112	-	-	-	-
-	-	-	-	-	-
(F)D	(F)D	(F)D	(F)D	(F)D	(F)D

3 WHEAT (P.W.M) 3rd test crop

025	027	029	031	033	035
-	-	-	-	-	-
-13	-12	-11	R	[G]	21-
(F)D	(F)D	(F)D	C, N	(D)D	(D)D
026	028	030	032	034	036
-	-	-	-	-	-
112	311	213	-	-	113
(F)D	(D)D	(F)D	(F)D	(F)D	(F)D

4 TREATMENT CROPS (3rd year)

037	039	041	043	045	047
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
038	040	042	044	046	048
-	-	-	-	-	-
-	-	-	-	-	-
(F)D	(F)D	(F)D	(F)D	(F)D	(F)D

5 WHEAT

049	051	053	055	057	059
LH	LC	RG+	AR	A	AR
050	052	054	056	058	060
-	-	-	-	-	-
(LN)	(LC)	(GN)	(LN)	(R)	(AR)

6 WHEAT (3rd test crop)

061	063	065	067	069	071
2	-	1	3	-	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	3	1	1	2
DE	LH	LC	A	RG+	AR
062	064	066	068	070	072
3	Y+S	Y+S	Y+S	Y+S	Y+S
-	2	2	-	2	-
(LN)	(LN)	(LN)	(LC)	(A)	(GN)

7 WHEAT (3rd test crop)

073	075	077	079	081	083
3	-	3	-	-	3
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
1	1	-	1	2	2
RG+	LC	AR	A	RG	LH
074	076	078	080	082	084
-	3	1	2	3	1
Y+S	Y+S	Y+S	Y+S	Y+S	Y+S
2	2	2	3	1	-
(GN)	(LC)	(R)	(A)	(LN)	(LH)

8 WHEAT

085	087	089	091	093	095
SOWN SOLID UNIFORM N					
LH	AR	A	RG+	LC	RG
086	088	090	092	094	096
NO YIELDS					
(LN)	(RS)	(R)	(GN)	(LC)	(LN)

ROTHAMSTED LEY ARABLE 37th YEAR HIGHFIELD 1985 9

Sponsors: Blocks 1-4 A.E. Johnston, Blocks 6 & 7 R.T. Gutteridge

85/R/R/N/1

CROPPING

W. wheat blocks 6+7
 Flanders manure at 1704/ha (14/6) on 2 November
 TEST N
 1, 2, 3, None, 50, 100, 150 kg N/ha
 (None, 45, 89, 134 lb N/ac)
 V, S, Yield, sample area
 Wheat blocks 5, 8, 9, 10, 11+12
 Sown solid, uniform N
 No yields. Sown at 1108/ha (11/6) on 2 November

133	135	137	139	141	143
Sown solid, uniform N					
RG	RB+	A	AR	L4	LC
134	136	138	140	142	144
No yields					
(LN)	(G)	(A)	(R)	(L4)	(LC)

097	099	101	103	105	107
Sown solid, uniform N					
AR	RG	LC	A	RB+	L4
098	100	102	104	106	108
No yields					
(R)	(LN)	(LC)	(A)	(G)	(L4)

109	111	113	115	117	119
Sown solid, uniform N					
A	RB+	L4	LC	AR	RG
110	112	114	116	118	120
No yields					
(A)	(G)	(L4)	(LC)	(R)	(LN)

121	123	125	127	129	131
Sown solid, uniform N					
A	RG	AR	LC	RB+	L4
122	124	126	128	130	132
No yields					
(A)	(LN)	(R)	(LC)	(G)	(LN)

TREATMENT CROPS blocks 2+3

L4 Lucerne
 LN grass ley
 LC grass Clover ley
 H 1 year hay
 R reseeded grass
 G Old grass
 [G] Pseudo - old grass

049	051	053	055	057	059
Sown solid, uniform N					
L4	LC	RB+	RG	A	AR
050	052	054	056	058	060
No yields					
(LN)	(LC)	(G)	(LN)	(A)	(R)

073	075	077	079	081	083
Sown solid, uniform N					
RG+	LC	AR	A	RG	L4
074	076	078	080	082	084
No yields					
(G)	(LC)	(R)	(A)	(LN)	(LN)

085	087	089	091	093	095
Sown solid, uniform N					
L4	AR	A	RG+	LC	RG
086	088	090	092	094	096
No yields					
(LN)	(R)	(A)	(G)	(LC)	(LN)

TEST CROP blocks 1+4

W. wheat
 Flanders manure at 1704/ha (14/6) on 2 November
 NOTE: TEST CROP to wheat replaces potatoes

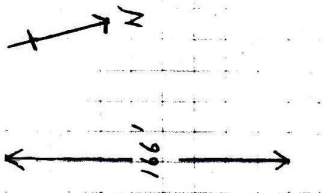
001	003	005	007	009	011	013	015	017	019	021	023
TEST CROPS (1st year)											
G	R	R	-13	112	-11	R					G
(F)	(F)	(F)	(F)	(F)	(F)	(F)					(F)
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4
002	004	006	008	010	012	014	016	018	020	022	024
TEST CROPS (1st year)											
112											
(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)	(F)

025	027	029	031	033	035
TEST CROPS (1st year)					
LC	H	L4	L4	L4	L4
026	028	030	032	034	036
TEST CROPS (1st year)					
(D)	(D)	(D)	(D)	(D)	(D)

037	039	041	043	045	047
TEST CROPS (1st year)					
113	R	112	-11	3	2
(F)	(F)	(F)	(F)	(F)	(F)
L4	L4	L4	L4	L4	L4
038	040	042	044	046	048
TEST CROPS (1st year)					
21-					
(D)	(D)	(D)	(D)	(D)	(D)

NOTE: R3+G8 etc refers to years reseeded (R) and old grass (G). First under arable crop (1963-1968 etc.) (F) (D), None FYM (residual treatments. C.N. None, N+K top dressed in spring and after each cut except the last

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 38th YEAR HIGHFIELD 1986
 Sponsor: A.E. Johnston



025	027	029	031	033	035	037	039	041	043	045	047
			R	[G]		1/3	R	1/2	-1	3/2	G
			c, n			(F)(F)	c, n	(F)(D)	(F)(D)	(D)(F)	n, c
	LC	SB	LN	LN	LN	LN	LN	LN	LN	LN	LN
046	048	050	052	054	056	058	060	062	064	066	068
						2		-1	2/3	1	
						(D)(D)		(D)(F)	(F)(D)	(D)(F)	

001	003	005	007	009	011	013	015	017	019	021	023
G	1/2	R	-3	1/2	-1	R					G
n, c	(D)(F)	n, c	(D)(F)	(D)(F)	(D)(F)	c, n					c, n
	LN		LN	A	LE	LN	LC	LN	SB	LN	LN
002	004	006	008	010	012	014	016	018	020	022	024
1/2	-3		2	1	-3	2	3				
	(F)(D)		(D)(F)	(F)(D)	(D)(F)						

1 WHEAT (2nd test crop) 2 TREATMENT CROPS (2nd year) 3 TREATMENT CROPS (2nd year) + WHEAT (2nd test crop)

CROPPING

TREATMENT CROPS Blocks 2 + 3 TEST CROPS blocks 1 + 4

- LN Ancerme
- LN Grass ley
- LC Grass / Clover ley
- SB Sugar beet
- R Reseeded grass
- G Old grass
- [G] Pseudo old grass

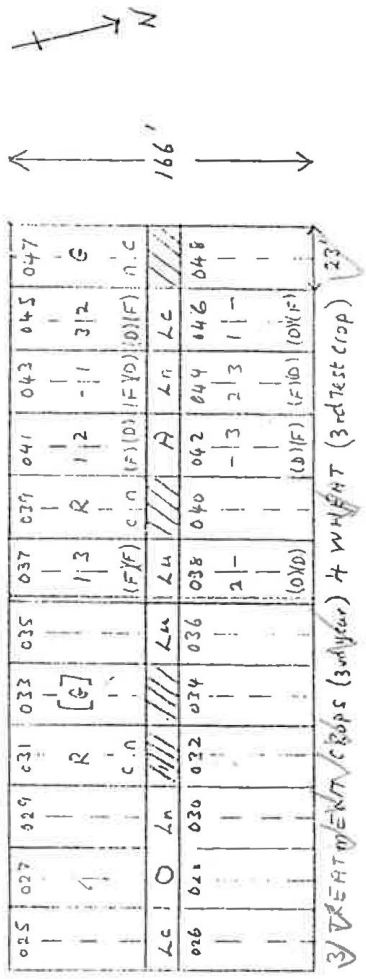
Winter wheat, sown 10 October
 Avalon

Notes: (F)(D); None, FYM (residual treatments), c, n, None, N+K top dressed in spring and after each cut except the last.

NOTE: Crop sequence blocks (old blocks 5-12) all to be sown solid, uniform N, no yields.

Variety Avalon

87/R/RN/V ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 39th YEAR HIGHFIELD 1987
 Sponsor: A.E. Johnston



001	003	005	007	009	011	013	015	017	019	021	023
G	1 2	R	-3	1 2	-1	R	-1	-1	-1	-1	G
n.c	(D)(F)	n.c	(D)(F)	(D)(F)	(D)(F)	c.n	c.n	c.n	c.n	c.n	c.n
LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC	LC
002	004	006	008	010	012	014	016	018	020	022	024
1 2	-3	-3	2 1	-3	2 1	-1	-1	-1	-1	-1	-1
(F)(D)	(F)(D)	(F)(D)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)	(D)(F)

1 WHEAT (3rd test crop) 2 TREATMENT CROPS (3rd year) 3 TREATMENT CROPS (3rd year) + WHEAT (3rd test crop)

CROPPING

TREATMENT CROPS blocks 2 + 3

- LC Lucerne
- LN Grass ley
- LO Grass / Clover ley
- O Oats
- R Reseeded grass
- G Old grass
- [G] Pseudo old grass

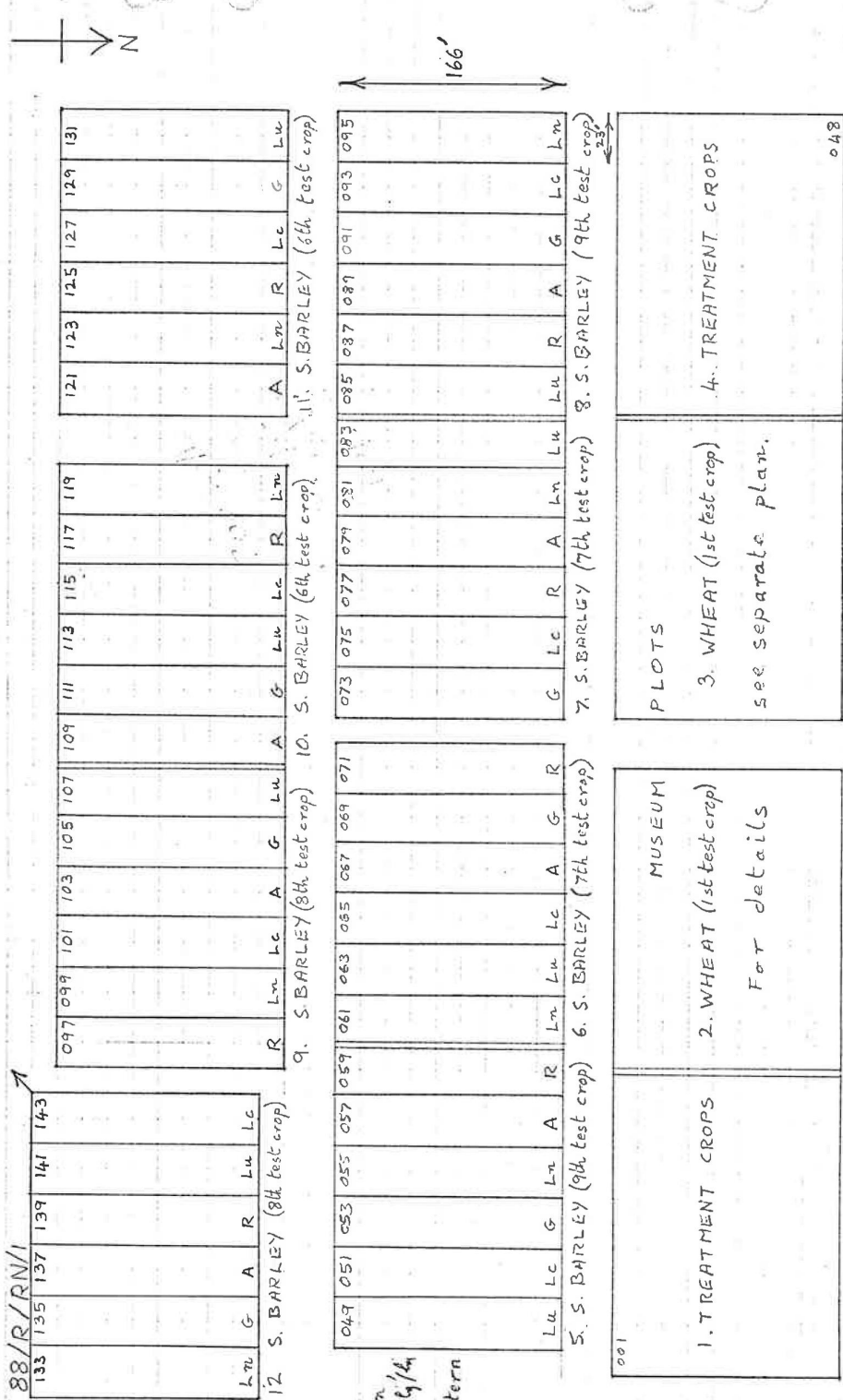
TREATMENT CROPS blocks 1 + 4

- Winter Wheat
- AVALON, nonn 4000lb

Notes: (F)(D), None, FYM (Residual treatments), c.n, None, N + K top dressed in spring and after each cut except the last.

4 crops
6th test crop
7
8
9
9a

ROTHAMSTED LEY ARABLE S. Barley 40TH YEAR 1988
 Sponsor: A.E. Johnston



TREATMENT CROPS

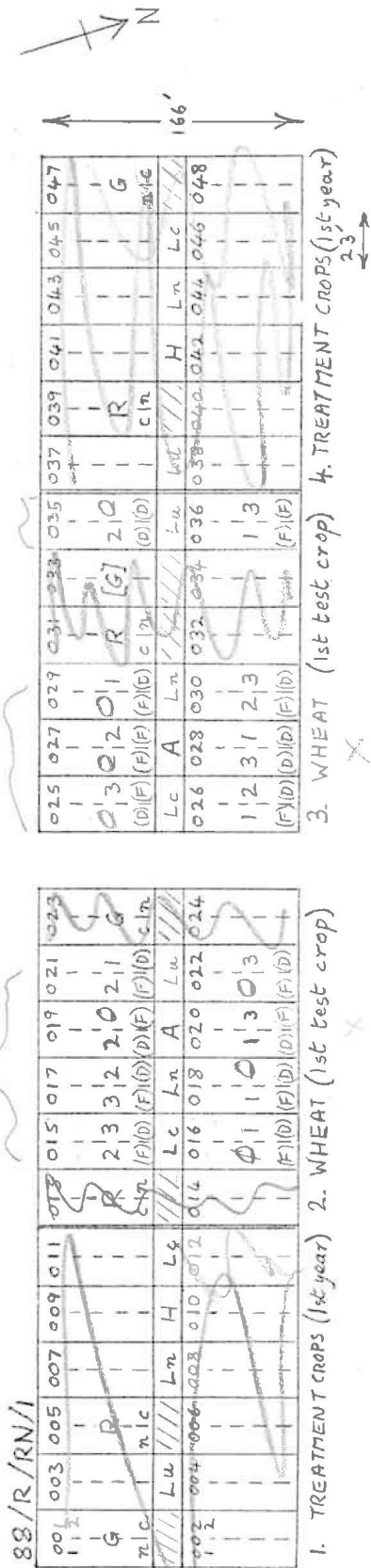
- A Arable
- G Old Grass
- Lc Grass clover ley
- Ln Grass ley
- Lu Lucerne
- R Reseeded grass

CROPPING 1988

Blocks 5-12
 S Barley: Variety: Klaxon
 sown 0.1 m. only sown at 158g/ha
 on 3rd March, 1988
 Yields taken from eastern
 half of each plot only

Thea Rot x FYM + W
Block —
NS = 0

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) OF 10
40TH YEAR
HIGHFIELD 1988
Sponsor: A.E. Johnston



CROPPING

TREATMENT CROPS blocks 1 & 4

- Lc Lucerne
- Ln Grass Ley
- Hc Grass/clover Ley
- H 1 year Hay
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 & 3

Winter Wheat
Avalon, Sown 5 Oct, 87

N test to Wheat

- None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

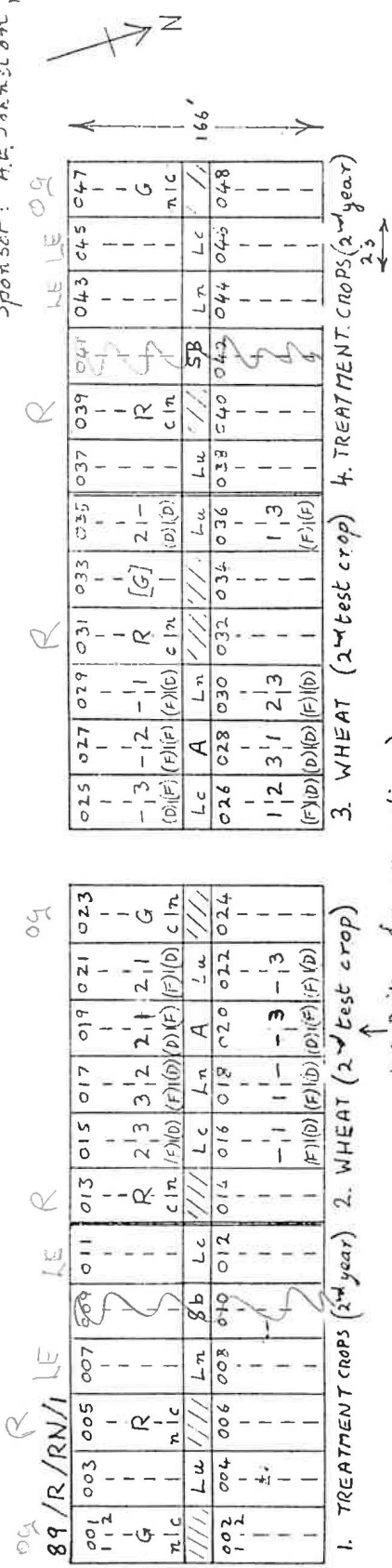
Notes: (F), (D): None; FYM (residual treatments)
c, n: None; NOK top dressed in spring and after each cut except the last.

9

HIGHFIELD 1759
Sponsor: A.K. Johnston, P.R. Poulton

41st YEAR

RCTHAMSTED LEY ARABLE (MUSEUM PLOTS)



001	003	005	007	009	011	013	015	017	019	021	023
L4	L4	R	L4	L4	L4	R	L4	L4	L4	L4	L4
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4

1. TREATMENT CROPS (2nd year) 2. WHEAT (2nd test crop)

025	027	029	031	033	035	037	039	041	043	045	047
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4
L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4	L4

3. WHEAT (2nd test crop) 4. TREATMENT CROPS (2nd year)

Note: Position of N-9 NI seed (in error) in several of blocks in 1989

CROPPING

TREATMENT CROPS blocks 1 r 4

- L4 Lucerne
- L4 Grass Ley
- L4 Grass/clover Ley
- Sb Sugar beet
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 r 3

Winter Wheat
Avalon, mean: 270t

N test to W Wheat

- None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None, FYM (residual treatments)
c, n: None, N&K top dressed in spring and after each cut except the last.

ROTHAMSTED LEY ARABLE (MUSEUM PLOTS) 42nd YEAR 1990
 HIGHFIELD SPONSOR: P.R. Poulton



001	003	005	007	009	011	013	015	017	019	021	023
112		R				R	2 3	3 2	2 1	2 1	G
n/c		n/c				c/n	(F)(D)	(F)(D)	(D)(F)	(F)(D)	c/n
///	Lu	///	Ln	O	Lc	///	Lc	Ln	A	Lu	///
002	004	006	008	010	012	014	016	018	020	022	024
113							- 1	1 -	- 3	- 3	
							(F)(D)	(F)(D)	(D)(F)	(F)(D)	

1. TREATMENT CROPS (3rd year) 2. WHEAT (3rd test crop) 3. WHEAT (3rd test crop) 4. TREATMENT CROPS (3rd year)

CROPPING

TREATMENT CROPS blocks 1 & 4

- Lu Lucerne
- Ln Grass Ley
- Lc Grass/clover Ley
- O Oats
- R Reseeded grass
- G Old grass
- [G] Pseudo Old Grass

TEST CROPS blocks 2 & 3

- Winter Wheat
- Avalon, sown: 4 Oct

N Test to Wheat

- None
- 1 50 Kg N ha⁻¹
- 2 100 ..
- 3 150 ..

Notes: (F), (D): None, FYM (residual treatments)
 c, n: None, N & K top dressed in spring and after each cut except the last.