

# Woburn long term liming experiment W/CS/10 Plan 1962-1973

Not to scale

Stackyard

Lime and PK plot treatments

N

Plot	33	34	35	36	37	38	39	40	Block 1
Lime	O	L	H	L	M	O	L	H	
PK	none	none	PK	K	P	K	P	K	
	41	42	43	44	45	46	47	48	1
	O	M	O	M	H	L	M	H	
	PK	none	P	PK	P	PK	K	none	
	49	50	51	52	53	54	55	56	2
	L	L	M	O	O	H	O	L	
	none	K	PK	K	P	PK	none	P	
	57	58	59	60	61	62	63	64	2
	H	L	H	O	M	H	M	M	
	K	PK	none	PK	none	P	P	K	

76.8m

51.2m

## Treatment factors:

**Lime** t CaCO<sub>3</sub> ha<sup>-1</sup>, total 1962-1973

O	0
L	5
M	12
H	19

<b>PK treatment:</b>	kg ha <sup>-1</sup> yr <sup>-1</sup>	
<b>1962-1980:</b>	P	K
none	0	0
K	0	104
P	27.5	0
PK	27.5	104

No P or K in fallow years, and different rate for potatoes.

Plot area 6.4m x 18.3m Fallow 1969

# Woburn long term liming experiment W/CS/10

Not to scale

## Plan 1974-1980

Mg applied to sub-plots

Stackyard

Lime and PK whole plot treatments

N

Sub-plot	331	341	351	361	371	381	391	401	Block 1  1  76.8m  2  2  51.2m
Mg	Mg	Mg	-	Mg	Mg	-	-	Mg	
Lime	O	L	H	L	M	O	L	H	
Mg	-	-	Mg	-	-	Mg	Mg	-	
PK	none	none	PK	K	P	K	P	K	
Sub-plot	332	342	352	362	372	382	392	402	
	411	421	431	441	451	461	471	481	1
Mg	Mg	-	-	Mg	-	Mg	Mg	-	
O	O	M	O	M	H	L	M	H	
-	-	Mg	Mg	-	Mg	-	-	Mg	
PK	PK	none	P	PK	P	PK	K	none	
	412	422	432	442	452	462	472	482	
	491	501	511	521	531	541	551	561	2
-	-	-	Mg	-	-	Mg	-	Mg	
L	L	L	M	O	O	H	O	L	
Mg	Mg	Mg	-	Mg	Mg	-	Mg	-	
none	K	PK	PK	K	P	PK	none	P	
	492	502	512	522	532	542	552	562	
	571	581	591	601	611	621	631	641	2
Mg	Mg	-	-	-	Mg	Mg	-	Mg	
H	L	H	O	M	H	M	M	M	
-	Mg	Mg	Mg	-	-	Mg	-	-	
K	PK	none	PK	none	P	P	P	K	
	572	582	592	602	612	622	632	642	

### Treatment factors:

**Lime** t CaCO<sub>3</sub> ha<sup>-1</sup>, total 1962-1980

O	0
L	6
M	14
H	23

**Mg** kgMg ha<sup>-1</sup>yr<sup>-1</sup>

-	0
Mg	112
Mg applied 1974, 1976-78	

### PK treatment

kg ha<sup>-1</sup>yr<sup>-1</sup>

#### 1962-1980:

	P	K
none	0	0
K	0	105
P	27.5	0
PK	27.5	105

No P or K in fallow years, and different rate for potatoes.

See plans for previous years (1962-1973) for further details

Plot area 6.4m x 18.3m (6.4m x 18m 1974, 1976) Fallow 1979 & 1980

**Woburn long term liming experiment W/CS/10**  
**Plan 1981-1986**

Not to scale

Stackyard

Lime and P plot treatments

N

Plot	33	34	35	36	37	38	39	40	Block 1
Lime	O	L	H	L	M	O	L	H	
P	P0	P0	P3	P1	P2	P1	P2	P1	
	41	42	43	44	45	46	47	48	1
	O	M	O	M	H	L	M	H	
	P3	P0	P2	P3	P2	P3	P1	P0	
	49	50	51	52	53	54	55	56	2
	L	L	M	O	O	H	O	L	
	P0	P1	P3	P1	P2	P3	P0	P2	
	57	58	59	60	61	62	63	64	2
	H	L	H	O	M	H	M	M	
	P1	P3	P0	P3	P0	P2	P2	P1	

76.8m

51.2m

**Treatment factors:**

**Lime** t CaCO<sub>3</sub> ha<sup>-1</sup>, total 1962-1986

O	0
L	8
M	24
H	43

PK treatment	P treatment	kgP ha <sup>-1</sup> total	
1962-1980:	1981-1988:	1962-80	1981-86
None	P0	0	0
K	P1	0	100
P	P2	495	75
PK	P3	495	200

See plans for previous years (1962-1980) for further details

Plot area 6.4m x 18.3m (6.0m x 18m 1983) Fallow 1984

# Woburn long term liming experiment W/CS/10

Not to scale

## Plan 1987-1990

Mn applied to sub-plots

Stackyard

Lime and P whole plot treatments

N

Sub-plot	331	341	351	361	371	381	391	401	Block 1
Mn	-	-	-	-	-	-	-	-	
Lime	O	L	H	L	M	O	L	H	
Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	
P	P0	P0	P3	P1	P2	P1	P2	P1	
Sub-plot	332	342	352	362	372	382	392	402	
76.8m									
	411	421	431	441	451	461	471	481	Block 2
	-	-	-	-	-	-	-	-	
	O	M	O	M	H	L	M	H	
	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	
	P3	P0	P2	P3	P2	P3	P1	P0	
	412	422	432	442	452	462	472	482	
76.8m									
	491	501	511	521	531	541	551	561	Block 2
	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	
	L	L	M	O	O	H	O	L	
	-	-	-	-	-	-	-	-	
	P0	P1	P3	P1	P2	P3	P0	P2	
	492	502	512	522	532	542	552	562	
76.8m									
	571	581	591	601	611	621	631	641	Block 2
	Mn	Mn	Mn	Mn	Mn	Mn	Mn	Mn	
	H	L	H	O	M	H	M	M	
	-	-	-	-	-	-	-	-	
	P1	P3	P0	P3	P0	P2	P2	P1	
	572	582	592	602	612	622	632	642	
51.2m									

### Treatment factors:

**Lime:** t CaCO<sub>3</sub> ha<sup>-1</sup>, total 1962-1987

O	0
L	9
M	25.5
H	45.5

**Mn spray treatment**

**1987-1990:**

-	not applied
Mn	foliar spray applied

**PK treatment**

**1962-1980:**

None
K
P
PK

**P treatment**

**1981-1988:**

P0
P1
P2
P3

kgP ha<sup>-1</sup> total

1962-80 1981-88

0	0
0	125
495	100
495	275

See plans for previous years (1962-1986) for further details

Plot area 6.0m x 18.3m

# Woburn long term liming experiment W/CS/10

Not to scale

Plan 1991-1996

S applied to sub-plots

Stackyard

Lime and P whole plot treatments

N

Sub-plot	331	341	351	361	371	381	391	401	Block 1
S	S	-	-	S	S	-	-	-	
Lime	O	L	H	L	M	O	L	H	
S	-	S	S	-	-	S	S	S	
P	P0	P0	P3	P1	P2	P1	P2	P1	
Sub-plot	332	342	352	362	372	382	392	402	Block 2
411	421	431	441	451	461	471	481		
S	-	S	S	S	S	S	-		
O	M	O	M	H	L	M	H		
-	S	-	-	-	-	-	S		
P3	P0	P2	P3	P2	P3	P1	P0		Block 3
412	422	432	442	452	462	472	482		
491	501	511	521	531	541	551	561		
-	S	-	S	S	-	-	S		
L	L	M	O	O	H	O	L		
S	-	S	-	-	S	S	-		Block 4
P0	P1	P3	P1	P2	P3	P0	P2		
492	502	512	522	532	542	552	562		
571	581	591	601	611	621	631	641		
S	S	S	S	-	-	S	-		
H	L	H	O	M	H	M	M		Block 5
-	-	-	-	S	S	-	S		
P1	P3	P0	P3	P0	P2	P2	P1		
572	582	592	602	612	622	632	642		

51.2m

## Treatment factors:

**Lime:** t CaCO<sub>3</sub> ha<sup>-1</sup>, total 1962-1987

O	0
L	9
M	25.5
H	45.5

**S treatment**

<b>1991-1996:</b>	kgS ha <sup>-1</sup> yr <sup>-1</sup>
-	0
S	30

**PK treatment**

**1962-1980:**

None
K
P
PK

**P treatment**

**1981-1988:**

P0
P1
P2
P3

kgP ha<sup>-1</sup> total

1962-80 1981-88

0	0
0	125
495	100
495	275

See plans for previous years (1962-1990) for further details

Plot area 6.0m x 18.3m 1991, 1992; 5.6m x 16.1m 1993, 1994; 6.0m x 16.1m 1995, 1996