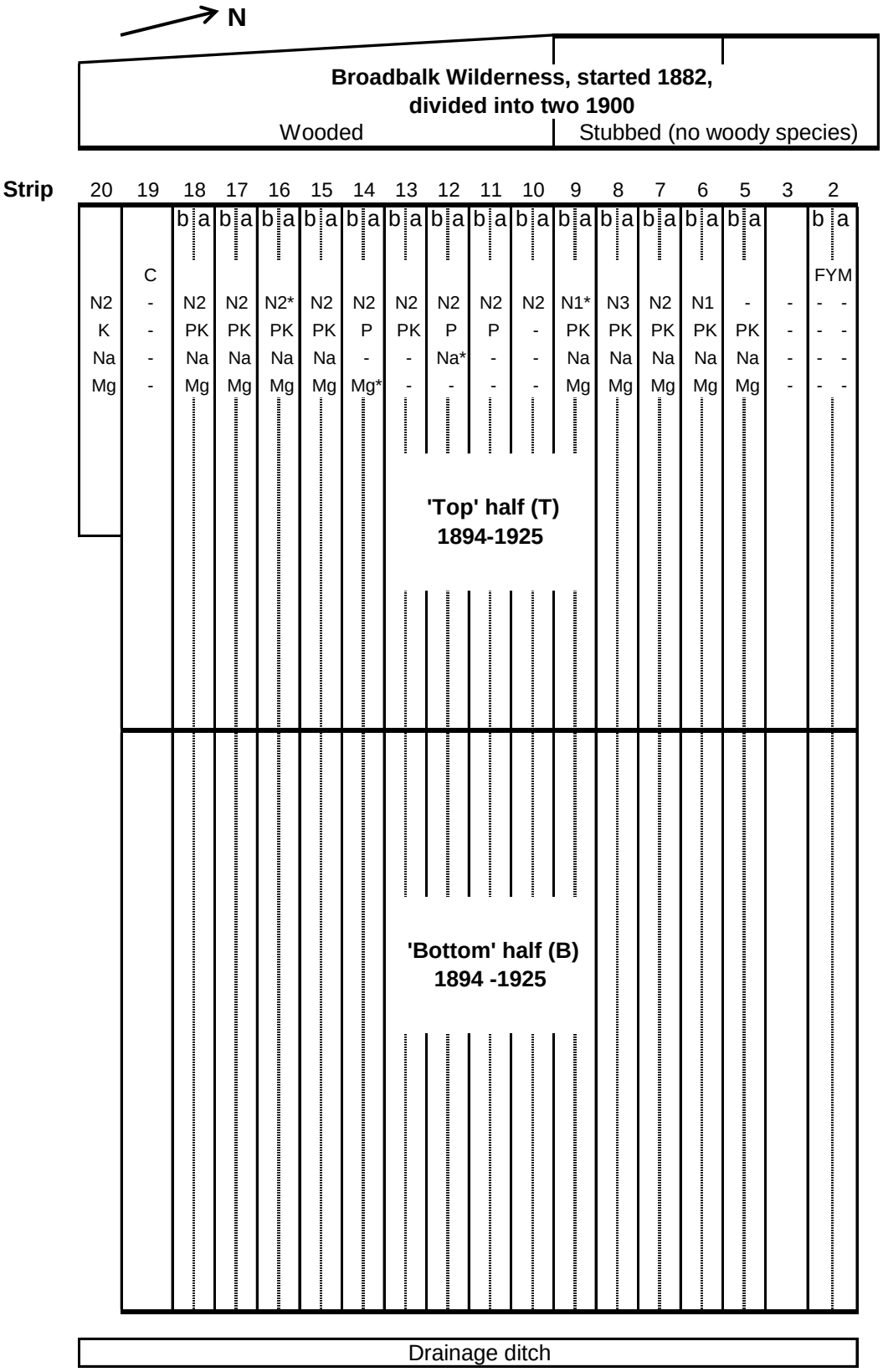
BROADBALK PLAN 1852-1925



Most strips divided into 2 halves length ways (a and b) 1847-1893
a and b halves combined to make one strip in 1894.
Strips divided into Top (T) and Bottom (B) halves most years 1894-1925

Fertilizer and organic manure treatments 1852-1925

Strip	Treatments applied each year since 1852:
2a	FYM since 1885
2b	FYM
3	No fertilizer or manure
5	PKNaMg
6	N1 PKNaMg
7	N2 PKNaMg
8	N3 PKNaMg
9	N1* PKNaMg since 1894; 9a and 9b received different treatments 1852-93
10	N2
11	N2 P
12	N2 P Na*
13	N2 PK
14	N2 P Mg*
15	N2 PKNaMg (timing of N application different to other plots, see below)
16	N4 PKNaMg 1852-64; unmanured 1865-83; N2*PKNaMg since 1884

Plots 17 and 18 treatments alternate each year:

17	N2 applied in even years; PKNaMg applied in odd years
18	N2 applied in odd years; PKNaMg applied in even years
19	N1.5 P and rape cake 1852-78, 1879-1925 rape cake only
20	N2 KNaMg since 1906, previously no manure or fertilizer

Annual treatment per hectare:

FYM:	Farmyard manure at 35t supplying approx. 225 kgN/ha
C:	Rape cake: Supplying approx. 96kgN (N2). 0.56t 1852-78; 1.91t 1879-82; 2.12t 1883-1925 (omitted 1917-1920).
P:	35 kgP as superphosphate (omitted 1915)
K:	90 kgK as potassium sulphate (omitted 1915, 1917-19)
Na:	16 kgNa as sodium sulphate (omitted 1915)
Na*	57 kgNa as sodium sulphate (omitted 1915, 1917-19)
Mg:	11 kgMg as magnesium sulphate (omitted 1915)
Mg*	31 kgMg as magnesium sulphate (omitted 1915, 1917-19)

Nitrogen: Annual treatment per hectare

N1:	48 kgN as ammonium sulphate
N1.5	72 kgN as ammonium sulphate
N2:	96 kgN as ammonium sulphate
N3:	144 kgN as ammonium sulphate
N4:	192 kgN as ammonuim sulphate
N1*:	48 kgN as sodium nitrate
N2*:	96 kgN as sodium nitrate

Timing of Nitrogen applications:

Ammonium sulphate:

1852-72	All applied in autumn
1873-77	All applied in autumn, except plot 15 in spring
1878-83	All applied in spring, except plot 15 in autumn
1884-1967	24 kgN applied in autumn, remainder in spring (except plot 15 all in autumn)

Sodium nitrate:

1867-1967	All applied in spring, as one application 1867-98, as two equal amounts since 1899, applied from six days to six weeks apart

Sources of data:

Johnston & Garner (1969) Rothamsted Report for 1968, Part 2, pp12-25
Rothamsted Research (2006) 'Guide to the Classical and other Long-term Experiments' Lawes Agricultural Trust, Harpenden, UK.
Please contact the e-RA Curators for further information