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SOIL STUDIES IN A HIGH COUNTRY CATCHMENT

- PADDLE CREEK, SOUTH CANTERBURY

A thesis
submitted in partial fulfilment
of the requirements for the Degree
of
Master of Agricultural Science
in the
University of Canterbury

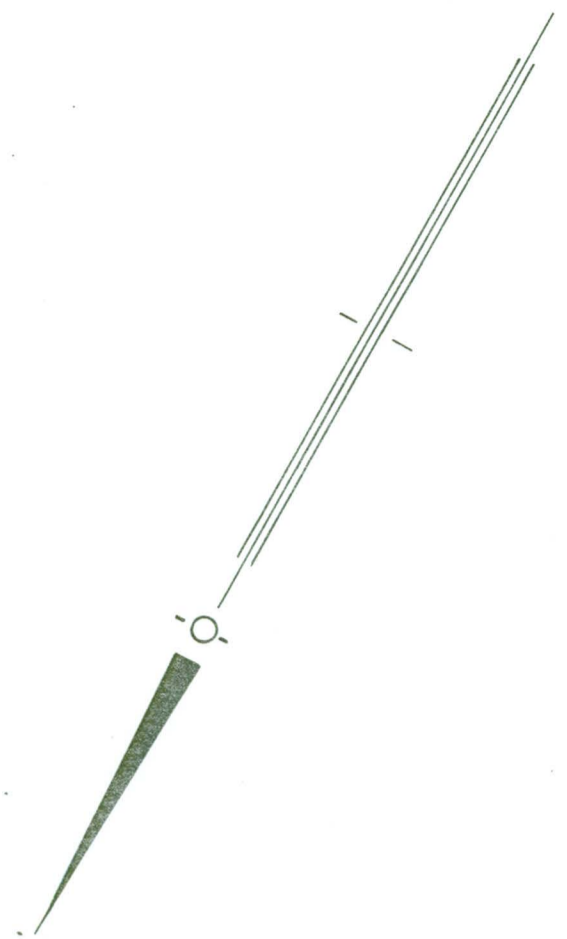
by
M.D. Harvey

Lincoln College

1974

UNCONTROLLED PHOTOMAP OF PADDLE CREEK CATCHMENT
(SOUTH ASHBURTON RIVER)
SURVEY AREA DELINEATED BY CATCHMENT BOUNDARY

Approx Scale : 110m to 10mm
(14 chain to 1 inch)



LEGEND

VARIANTS WITHIN THE PUKETERAKI ASSOCIATION

- P1 Puketeraki silt loam.
- P11 Puketeraki silt loam, mottled phase.
- P12 Puketeraki silt loam, strongly mottled phase.
- P2 Puketeraki silt loam, eroded variant.
- P3 Puketeraki silt loam, eroded variant with open stone pavement.
- P4 Puketeraki gravel on silt loam, stone pavement variant.
- P4X Puketeraki gravel on silt loam, vegetated stone pavement variant.
- DR Dog Range peaty loam and associated peaty soils.

VARIANTS WITHIN THE KAIKOURA STEEPLAND ASSOCIATION

- K1 Kaikoura complex, stony silt loam and associated lithic variant.
- K2 Kaikoura stony silt loam, weakly eroded variant.
- K3 Kaikoura stony silt loam, strongly eroded variant.
- K4 Kaikoura lithic variant.
- K/G Kaikoura stony silt loam, gleyed variant and associated peaty soils.

VARIANTS WITHIN THE CASS HILL ASSOCIATION

- CH Cass silt loam, gently sloping phase.
- CH/S Cass silt loam, strongly to steeply sloping phase.
- CH/G Cass silt loam, gleyed variant and associated peaty soils.

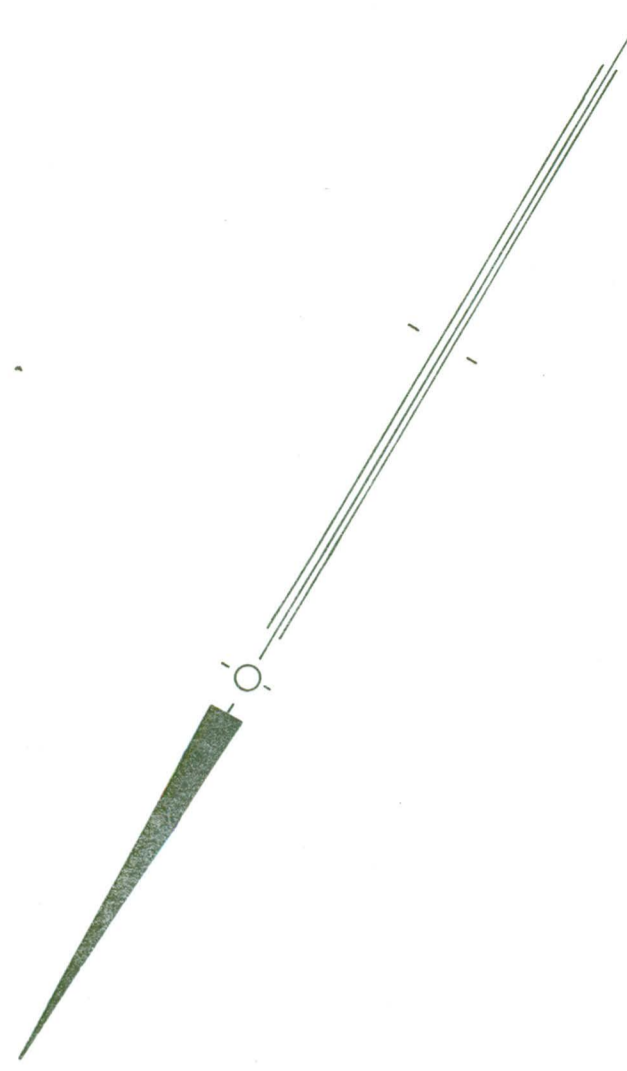
VARIANTS WITHIN THE CASS - SNOWGRASS - PADDLE CREEK ASSOCIATION

- C Cass silt loam and bouldery silt loam complex.
- S Snowgrass silt loam and stony silt loam complex.
- C/S Paddle Creek silt loam and stony silt loam complex.
- S/G Snowgrass silt loam, gleyed variant and associated peaty soils.

OTHER FEATURES

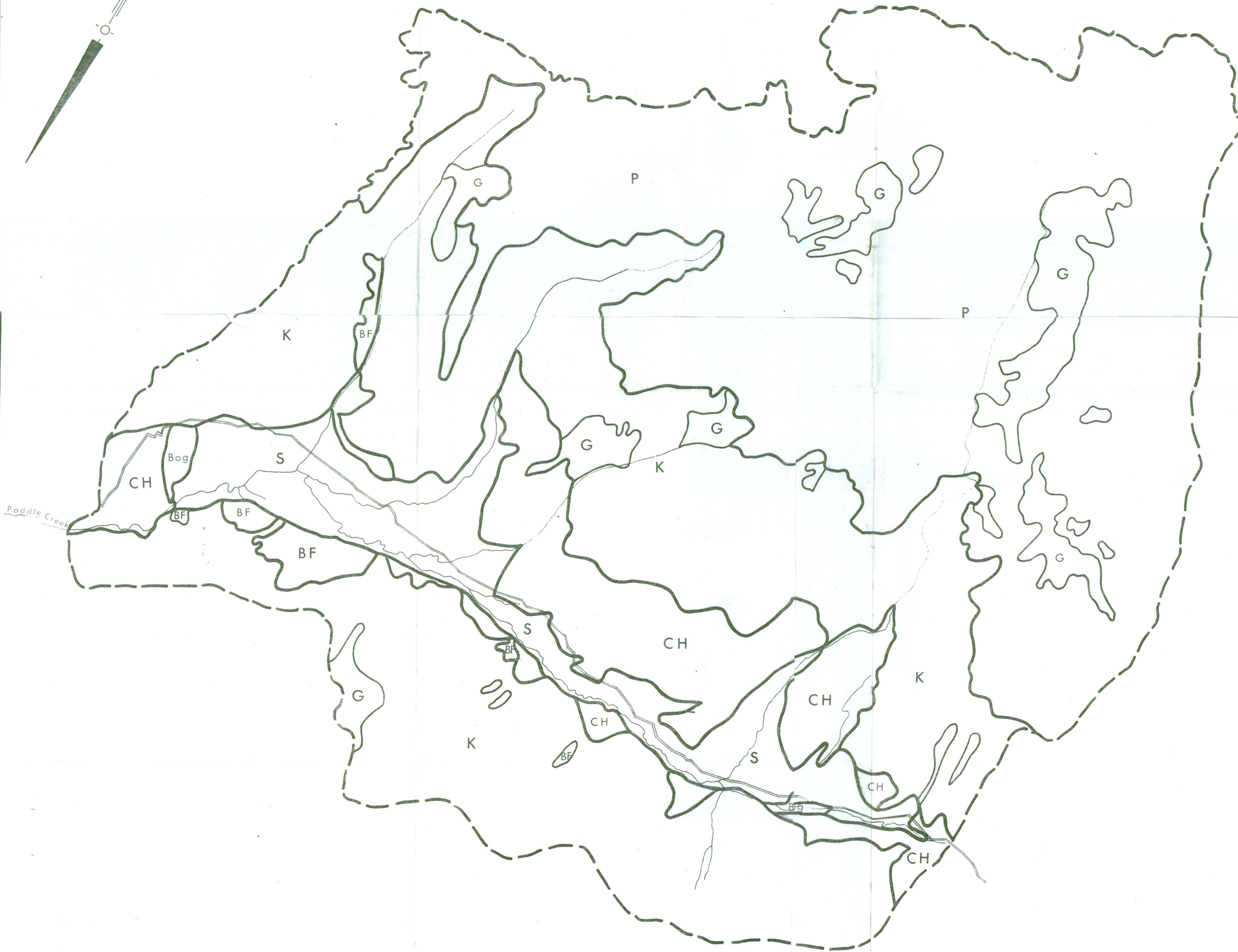
- B.F. Block Field
- Bog Bogs with open water.

UNCONTROLLED PHOTOMAP OF PADDLE CREEK CATCHMENT
 (SOUTH ASHBURTON RIVER)
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LEGEND

- P ¹⊙ Puketeraki Association
 - K ²⊙ Kaikoura Steepland Association
 - CH ³⊙ Cass Hill Complex
 - S ⁴⊙ Cass Complex
 - S □ Snowgrass Complex
 - S □ Paddle Creek Complex
- } Cass - Snowgrass - Paddle Creek Association
- G □ Named and unnamed peaty gley and gley soils associated with the above mapping units.
- OTHER FEATURES
- B.F. Block Fields
 - Bog Bogs with open water



FOOTNOTES:
 Soil Sets S.B. Bull. 27 Map Scale 1 250,000
 1 - Puketeraki soils (55b)
 2 - Kaikoura Steepland soils (57)
 3 - Cass Hill (53H)
 4 - Cass (53)
 ⊙ Names taken from S.B. Bull. 27
 □ Names devised for purpose of the survey