



NEW ZEALAND AGRICULTURAL ENGINEERING INSTITUTE

LINCOLN COLLEGE

CANTERBURY

NEW ZEALAND

Public

TEST REPORT T/38

HYDRAULIC PERFORMANCE OF EFFLUENT SPREADERS

T. D. Heiler
Research Officer

This report presents the results of a testing project carried out at Lincoln College to determine the characteristics of the currently available hydraulic effluent spreaders in New Zealand.

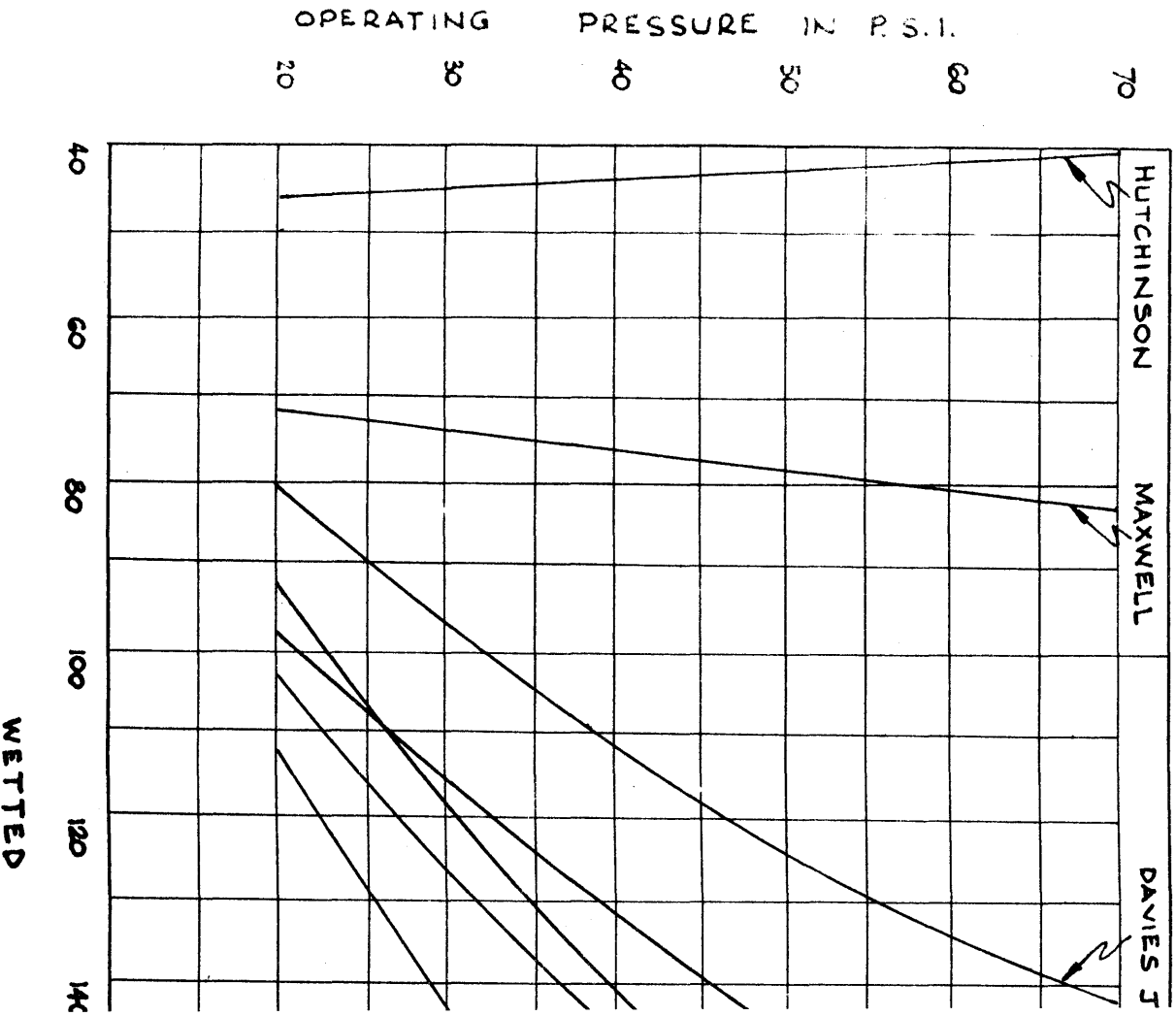
Figure One represents the wetted diameter obtainable for each of the spreaders tested for various operating pressures. Tests were conducted in the open air in conditions as near as possible to still-air conditions.

Figure Two represents the discharge obtainable for each of the spreaders tested for various operating pressures. Flow and pressure measurements were conducted using flow measuring techniques conforming to E.S. 1042.

Some details of the spreaders tested are given below:

<u>Trade Name</u>	<u>Supplier for Test</u>
Wright Rain 'Manurain' Nozzle Nos 9 & 15	A. C. Harrison & Co Christchurch
Bauer '180' Nozzle Nos 12 & 14	Andrews & Beaven Palmerston North
'Maxwell'	Dalhoff & King (NZ) Ltd Christchurch
Davies 'J33'	B. R. Homersham & Co Christchurch
'Hutchinson'	Geo. Hutchinson & Co Morrinsville

FIGURE ONE P



ure - Wetted Diameter

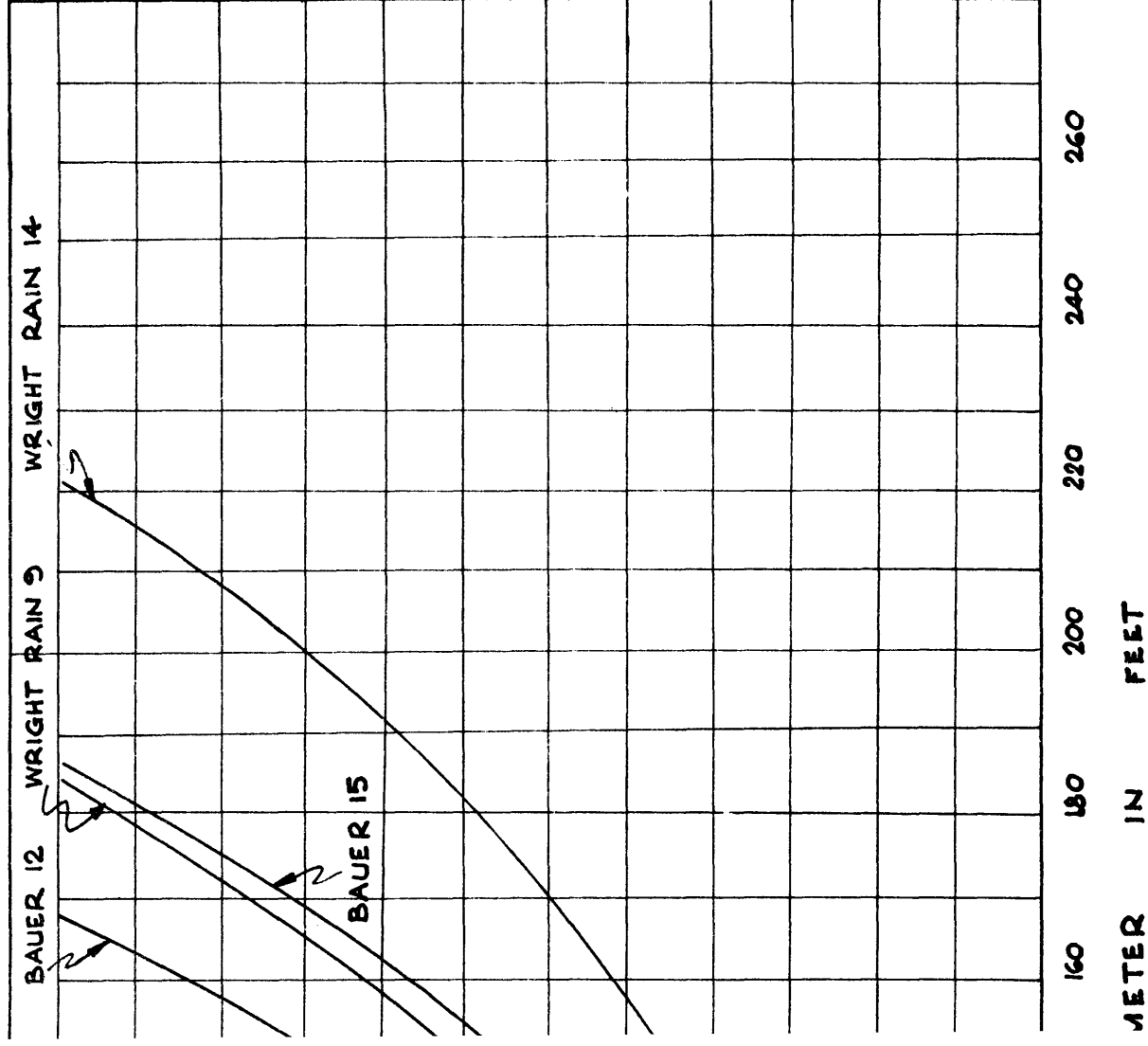


FIGURE TWO · Pressure - Discharge

