

properly metalled with broken stone, those roads within a few miles of the town will necessarily fall into a similarly impracticable condition in the course of next winter. To this report I have to draw your attention, as it enters closely into details of the requirements of the various roads, and the consequent contingent expenditure.

## SOUTHLAND DIRECTORY.

### TRADES AND CALLINGS

*Banks*—Union Bank of Australia, David McDonald, Manager; Bank of New South Wales, Alex. Jamieson, Manager; Bank of New Zealand, Thomas Watson, Manager.

*Brewers*—C. S. Button & Co., Dee-street.

*Brickmakers*—John Hill & Co., Waikiri.

*Bushmen*—W. Nahr & Co., Town Belt Tramroad.

*Butchers*—A. T. Clark & Son, Tay-street; Longley and Cozen, Tay-street.

*Drapers*—Robert Mitchell, Tay-street.

*Furniture Dealers*—James Mackay, Dee-street.

*General Carriers*—J. W. Wade & Co., Tay-street.

*Insurance Companies*—New Zealand Insurance Company, W. Russell, Agent; Surman and Creasar, Riverton agents; J. G. Janlin, Campbelltown, Bluff agent. Northern Assurance Company, of London and Melbourne, Manning and Whitton, agents. The Colonial Assurance Company, Robertson and Co., agents. Australian Mutual Provident Society, Maning and Whitton, agents.

*Ironmongers*—Samuel Bevan, Tay-street; Route, Brothers, Dee-street.

*Merchants and Storekeepers*—Dalgety, Rattray & Co., Kelvin-street; Roberts and Ferguson, Tay and Tweed-streets; T. Bruntern & Co., Dee-street; John Ross & Co., Bonded Store Wharf; Calder, Blackwell & Co., Jury-street; Manning and Whitton, Tay-street; Hay, Brothers, Tay-street; Buttner and Hallenstein, Dee-street; T. J. White, Dee-street; Cochrane, Granger, and Blackwood, Devereaux-street; J. Waddell, Campbelltown Bluff; J. Rieve, Esk-street; Clerke, Brothers, Tay-street; J. Hamilton, Clyde-street; Whittingham, Brothers, Riverton; D. & J. Mitchell, Tay-street; J. R. Mills, Riverton; G. W. Binney, Dee-street; D. McIver, Bonded Store, Tay-street; A. Nicholas, Riverton; Morison, Leno, & Co., Dee-street.

*Painters, Glaziers, &c.*—Jas. Keir & Co., Clyde-street; David Webster, Dee-street.

*Register and Labour Office*—G. Walker, Spey-street.

*Stationers and Librarians*—John Munro, Dee-street; — Rodgers, News Agent, Dee-street.

*Veterinary Surgeons*—A. Hamilton, Dee-street.

## USEFUL TABLES.

### ALE, BEER, AND PORTER MEASURE.

4 gills	make	...	1 pint	2 firkins, or 18 gallons	make 1 kild.
2 pints	...	...	1 quart	2 kilderkins, or 36 gallons	... 1 bar.
4 quarts	...	...	1 gallon	3 kilderkins, or 54 gallons	... 1 hhd.
9 gallons	...	...	1 firkin	3 hogsheads, or 108 gallons	... 1 butt.

### WINE AND SPIRIT MEASURE.

4 gills	make	...	1 pint	2 hhds., or 126	} make 1 pipe, or butt
2 pints	...	...	1 quart	galls.	
4 quarts	...	...	1 gallon	4 hhds., or 252	} ... 1 tun
63 gallons	...	...	1 hhd.	galls.	
84 gallons	...	...	1 pun.		

### GRAIN, FLOUR, AND BREAD.

A bushel of wheat weighs	...	60	A bushel of barley	...	47
A bushel of beans	...	63	A bushel of peas	...	64
A bushel of oats	...	40	A bushel of rye	...	53

6 bushels of wheat yield of fine flour 280 lbs.

280 lbs. of flour (1 sack) make 400 lbs of white bread.

A man's average annual consumption of bread is 572 lbs.

A peck loaf weighs	...	17	6	1	A half peck	...	8	11	0
A quartern	...	4	5	8	A peck or stone of flour...	...	14	0	0
A bushel of flour...	...	56	0	0	10 pecks or stones, a bolt	...	140	0	0
A barrel American	...	196	0	0	A pack or load of flour	...	240	0	0
5 bushels, or one sack	...	280	0	0	Potatoes, uncleaned, 120lbs to the cwt.	...			

### SQUARE, OR LAND MEASURE.

144 inches	...	make	...	1 square foot	...	s. f.
9 feet	...	...	...	1 square yard	...	s. yd.
100 feet	...	...	...	1 square of flooring	...	s. fl.
272½ feet	...	...	...	1 rod of brickwork	...	r. b. w.
30½ yards	...	...	...	1 pole, rod, or perch.	...	p.
16 poles	...	...	...	1 chain	...	ch.
40 poles, or 1210 square yards	...	...	...	1 rood	...	r.
4 roods, or 10 chains, or 160 poles, or 4840 yards	...	...	...	1 acre	...	a.
640 acres	...	...	...	1 mile	...	m.

LAND is measured by *Gunter's Chain*; which is as follows:

*Length*:—7.92 inches make 1 link; 12 inches, or 1.515 links, make 1 foot; 36 inches, or 4.545 links, make 1 yard; 198 inches, or 25 links, make 1 pole or perch; 702 inches, or 100 links, or 66 feet, or 22 yards, or 4 poles, make 1 chain; 7920 inches, or 1000 links, or 10 chains, make 1 furlong; 63,360 inches, or 8000 links, or 80 chains, make 1 mile.

*Square*:—62.726 square inches, make 1 square link; 2.295 square links, make 1 square foot; 22.661 square links, make 1 square yard; 625 square links, make 1 square pole; 10,000 square links, make 1 square chain; 25,000 square links, or 2.5 square chains, make 1 square rood; 100,000 square links, or 10 square chains, make 1 square acre.