1898. $N \to W$ ZEALAND.

EDUCATION:

CANTERBURY AGRICULTURAL COLLEGE THE

(ANNUAL REPORT OF).

Presented to both Houses of the General Assembly by command of His Excellency.

Sir,--Canterbury Agricultural College, Lincoln, 17th June, 1898. I have the honour, by direction of the Chairman, to forward you herewith a copy of the Director's annual report for the year ending 31st December, 1897, as approved of by the Board of Governors; also, a copy of statement of receipts and expenditure for the year ending 31st Decem-I have, &c., ber, 1897.

The Secretary of Education, Wellington.

O. B. Pemberton, Secretary.

DIRECTOR'S ANNUAL REPORT.

Canterbury Agricultural College, Lincoln, 31st December, 1897. I have the honour to report on the work done at the Agricultural College, on the live-stock, Str. and on the condition of the farm, for the year ending 31st December, 1897.

College.—During the first term, ending about the middle of June, thirty-six students were in attendance; during the second term, thirty-eight were in attendance.

The subjects of instruction were, as in former years, agriculture, chemistry, botany, entomology, meteorology, physiography, book-keeping, applied mechanics, mensuration, surveying and levelling,

and veterinary science. The diploma, which includes both scientific knowledge and practical farm-work, and is the highest distinction conferred, has been gained by the following students: Norman McPherson Duncan, Christchurch; Vernon Montgomerae Hutton, Christchurch; Walter Manning, Wellington; Thomas Palethorpe, Burnham; and Harold Small, Otaki. The certificate for practical farm-work

has been gained by Edward Narbey, Akaroa.

Annual certificates have been gained by the following students of the second year: Harold Small, first in principles of agriculture, practical chemistry, botany, practical botany, farm-books, and equal with N. M. Duncan in entomology; Norman McPherson Duncan, first in practical agriculture, live-stock and dairying, and equal with H. Small in entomology and with V. M. Hutton in veterinary science; Vernon Montgomerae Hutton, first in general chemistry, agricultural chemistry, surveying, mechanics, and equal with N. M. Duncan in veterinary science; Thomas Palethorpe, first in book-keeping.

Annual certificates have been gained by the following students of the first year: William Thomas Grant, first in agriculture; Harold Campbell Pockley, first in entomology, botany, physiography, meteorology, book-keeping, farm-books, and equal with M. Bethell and D. J. Willis in veterinary science; Yeo Trissilian Shand, first in agricultural chemistry and practical entomology; Daniel Jarvis Willis, first in general chemistry, mensuration, plotting, and equal with M. Bethell and H. C. Pockley in veterinary science; Walter Thomas Bent, first in practical chemistry; John Blunden, first in practical botany; Marmaduke Bethell, first, equal with D. J. Willis and H. C. Pockley, in veterinary science.

A change has occurred in the teaching staff, Mr. C. C. Farr, B.Sc., of Adelaide University, having been appointed lecturer on applied mathematics, in place of Mr. C. E. Adams, B.Sc., of New Zealand University, who resigned his position after four years' service. Messrs. Gray, Lillie, and Charlton are still in charge of the chemical, natural science, and veterinary science departments respectively.

ments respectively.

Farm.—The farm is in good order. The gorse fences continue to die, and wire fences are being erected in their stead. The autumn cereal crops look well; those sown in spring look poor, and are stunted in growth, and, should the dry weather continue, are likely to prove a failure. The root crops were good, especially the mangels and carrots; potatoes fair; clover-seed good; hay poor. Some twenty different experiments with manures, crops, cultivations, &c., were tried throughout the year, and the results published in the leading Canterbury newspapers. An experiment to determine which is the best breed of rams to use on crossbred ewes in order to obtain the best fat lambs for freezing was tried. The rams used were Border Leicester, English Leicester, Shropshire, and Southdown. The lambs are being shipped, and will be reported on by the London salesman.

The stock look well, though the feed is scarce. The cattle consist of a herd of Shorthorns and a couple of the following breeds, kept for educational purposes: Jerseys, Ayrshires, Herefords. The sheep include a small flock of pure-bred Border Leicester, English Leicester, Lincoln, Romney Marsh, and Shropshire, besides a small flock of crossbreds. The live-stock stand at present as follows: Sheep and lambs, 1,373; cattle, 84; horses, 21; pigs, 77. The annual valuation of stock took place on Thursday, 21st December, and was conducted by the Executive Committee of the Board, consisting of Messrs. H. Overton, W. Boag, H. F. Gray, and J. Rennie. The results compare favourably with those of last year.

compare favourably with those of last year.

To the Executive Committee and to the other members of the Board, Hon. W. Rolleston and Hon. E. C. J. Stevens, and Mr. F. de C. Malet, I desire to express my indebtedness for their ready

and judicious co-operation in carrying on the work connected with the Agricultural College.

I have, &c.,

The Chairman, Board of Governors, Canterbury Agricultural College, Lincoln. J. BAYNE, Director.

FARM ACCOUNT.

STATEMENT of I	RECEIPTS and	EXPENDITURE for the Year ending 31st December, 1	1897.
	Receipts.	\pounds s. d. Expenditure.	£ s. d.
To Rent of land		15 0 0 By Farm wages (including share of Di-	
Sale of grain, &c		rector's salary)	806 6 7
Wheat		267 0 11 Students' wages	$102 \ 15 \ 2$
Grass-seed		77 12 8 Trade accounts—repairs, sheep-dip, corn-	
Clover-seed		95 8 0 sacks, &c	236 11 0
Barley		29 5 0 Manures	26 6 7
Potatoes		104 7 0 Seeds	10 8 2
Sacks		9 18 10 Fuel (farm)	$16 \ 13 \ 1$
Sale of live-stock—		Rates	36 14 4
Sheep		557 7 0 Insurance of farm-buildings	$34 \ 5 \ 9$
Cattle	• • • • • •	143 14 6 Implements	$18 \ 7 \ 6$
Horses		12 5 0 Repairing gates and fences, material and	
Pigs	• • • • •	226 5 10 labour	117 18 8
		173 2 0 Lochead's drain	$1 \ 5 \ 0$
Sale of dairy-produce		175 16 11 Permanent improvements	$11 \ 12 \ 0$
		Contingencies (farm) Live-stock, Purchase of, &c.—	30 7 9
		Sheep	117 14 1
		Horses	$34 \cdot 19 \cdot 7$
		Cattle	$16 \ 2 \ 8$
		Balance carried to General Account	2 6 8 15 9
			,887 3 8

GENERAL ACCOUNT.

Statement o	f Receipts	and	EXPEND	ITU	RE	for	the	Year	ending	31st	December,	1897.
	Receipts.		£							xpendi	ture.	£
Dont of magazine	~		1.693	4	7	Bv !	Salari	ise of et	t.a.ff			1 267

		песе	vpis.		æ	8.	α.
Τо	Rent of reserves		~		1,623	4	7
	Interest on Supr	eme Ce	ourt awar	\mathbf{d} of			
	£6,250				159	4	11
	Receipts from stud	lents—					
	Fees				1,380		0
	Sale of books				53	10	1
	Penalties		• •		8	7	10
	Laboratories—R				13	13	10
	Loan from Agricul	tural ar	id Pastora	l As-			
	sociation	••			500	0	0
	Balance from Farm	n Accou	ınt		268	15	9
	Balance at 31st De	ecember	, 1897		428	6	3

	Expenditure.	£	s.	d.
y	Salaries of staff	1,367	4	6
•	Library—Books, periodicals, &c		18	3
	Travelling-expenses of students	20	5	Ō
	Printing and advertising	17	17	3
	Laboratories—Apparatus, &c	9	8	0
	Office requisites—stationery, stamps, and			
	telegrams	79	14	10
	Prizes and certificates	1	12	6
	Inspection of reserves	14	11	3
	Maintenance of students and teaching			
	staff	1,593	17	6
	Maintenance of buildings and grounds—			
	Insurance of buildings	42	12	11
	Repairs to college buildings, water-			
	supply, new furniture, &c	180		0
	Labour in grounds and plantations, &c.	157	17	8
	Books and instruments for students	27	5	0
	Contingencies (college), including pre-			
	miums on guarantee policies	82	8	3
	Experimental work	36	3	6
	Orchard—Labour, &c	70	3	0
	Workshops—			
	Wages	84		0
	Material and tools	24	7	6
	Interest on loan from Agricultural and			
	Pastoral Association	14	5	9
	Extras for visitors		15	0
	Telephone Exchange, subscription	19	_	0
	Lawn-mower	24	O	0
	Changing sink and fitting up servants'			
	room	16	6	5
	Meeting-room for Board, and library, and			
	office of Director	21	11	2
	Repayment of loan to Agricultural and		_	_
	Pastoral Association	500	0	0

£4,435 13

£4,435 13 3

CAPITAL ACCOUNT.

		Oni	111	ידנ	A0000111.					
	Receipts.	£	s.	d.	Expenditure.	£	s.	\mathbf{d}		
To Part payment of Court of £6,250 Payment on accoun Canterbury Colleg	award of Supreme at of moneys held by ge	250			By Refund for deficient acreage in land purchased out of Reserve 1574 Balance at 31st December, 1897		17 2			
		£1,250	0	0		£1,250	0	0		
BALANCE. \pounds s. d. \vdash Bank, &c. \pounds s. d.										
Cr. Capital Account	Accounts.	£ 1,188		d. 9	Bank, &c. Cr. Balance at Bank of New South Wales	£ 762				
Dr. General Account					Less unpresented cheques	3	2	ŏ′		
		£759	16	6		£759	16	6		

J. BAYNE, Director.

Examined and found correct.

J. K. WARBURTON, Controller and Auditor-General.

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