## FOR FARMERS AND STOCKMEN

TABLE No. 2-Continued.

Rambouillet totals and averages	312	10.29	9 28 (	2.91
10 Delaine lambs, first experiment		9.35	9 76	3.78
Summary for the Merinos, both experiments.	570	9.85	19 04	3.34
Grand total, all breeds, second experiment	3,568	9.6 <del>7</del>	108 45	3.04
Grand total, first 7 breeds, second experiment	2,842	9.58	86 56	3.04
Grand total, first 7 breeds, first experiment	3,281	7.25	94 69	2.88
Grand total, first 7 breeds, both experiments	6,123	8.33	181 25	2.96
Grand total, all breeds, both experiments	8,246	8.38	245 69	2.97
(Sept. 16 to 30.	72	5.96	I 21	1.69
10 Shropshire ewes, second ex. October	102	9.94	3 42	3.34
periment	77	12.41	3 09	4.03
(December	82	12.57	2 89	3.52
Shropshire ewes, totals and averages	323	10.30	10 61	3.18

NO. 3 WEIGHTS AND VALUE OF THE FLEECES.

Breed.	Date of shearing.	Average age of fleece.	Average weight of fleece.	Value per pound in natural condition.	Per cent. shrinkage in scouring.	Value per pound in scoured condition. Value of	fleece per head.
		Days.		Cts.		Cts.	
TO C. (T. 1) 1	Mar. 23 Mar. 21-23 Mar. 21 Mar. 17-20 Mar. 18-20 Mar. 18-20 Mar. 18-20 Mar. 18-20 Mar. 18-20 Mar. 20-21	383 332 348 334 355 359 334 321	8.75 10.95 7 65 12.85 11.55 12.65	$ \begin{array}{c} 11 \frac{1}{2} \frac{1}{3} \\ 11 \\ 12 \frac{3}{4} \\ 11 \\ 13 \frac{3}{4} \\ 14 \frac{3}{4} \\ 13 \\ 10 \frac{3}{4} \\ 13 \\ 10 \frac{3}{4} \\ 11 \frac{3}{4} \\ 11 \frac{3}{4} \\ 12 \frac{1}{2} \\ 12 \frac{1}{$	54 14 56 14 47 54 14 40 38 1/2 43 1/3 55 14 67 1/2 53 48 49	25 24 23 24 23 24 23 24 30 25 24	\$.75 .98 1.44 .76 1.79 1.76 1.76 1.76 .77 1.00 .90 .67 1.34

\* The values in this column are obtained by dividing the value of wool from each breed by the number of sheep. The Chicago weights varied a little from the home weights taken at date of shearing.

Breed.	Month	Mixed grain. Pounds.	Roots. Pounds.	Hay. Pounds.	Total gain. Pounds.	Average gain per head daily. Pounds.	Fotal dry matter. Pounds.	Pounds of dry matter per pound of gain. ( verage.) Total cost of feed.	Cost of feed per pound of gain (average.) Cents.
10 Shropshire lambs	Jan Feb Mar	595 648 681	279 269 234	4 <b>6</b> 4 495 564		. 39 . 46 . 56	957.7 1,030.4 1,093.6	7.78 \$3.78 7.57 4.14 6.43 4.45	3.7 3.4 2.61
Totals and averages	•••••	1,924	782	1,523	429.5	. 48	3,081.7		2.88
	Jan. Feb Mar	403 362 340	186 174 136	250 216 233	59 38 52.5	· 34 . 26 · 35	594.3 527.4 516.6	10.07 2.38 13.88 2.16 9.93 2.10	4 5 7 4
Totals and averages		1,105	496	699	149.5	.33	1,638.3	11 6.64	4.44

NO. 4. FEEDING OF LAMBS AND YEARLINGS COMPARED.

in which the cost of producing gain on pure-bred Shropshire wethers and lambs under the same conditions and on the same rations were compared. See Table No. 4.

It will be seen that it costs 56 per cent. more to produce gain on yearlings than on lambs of the same breed; perhaps this difference is somewhat greater than would ordinarily occur on account of the wethers being somewhat fatter at the beginning of the experiment than the lambs, although the comparison from month to month shows a wide difference in each case. It always costs proportionately less to make gains on young animals than on older ones. LAMBS PREFERRED IN THE MARKET.

The market also favors the younger animals. In this case the yearlings sold for \$4.25 per hundred, live weight, and the lambs for \$4.75 on the same market, a difference of 10 per cent. in favor of the lambs. On this account it is generally more profitable to finish sheep for market under one year of age than to hold them longer unless an abundance of cheap feed is available, as is the case where lands are cheap or free range accessible.

In the slaughter test the lambs dressed the following percentages of net carcases to live weight :

PERCENTAGES OF YIELD OF DRESSED MUTTON.

Breed.	Fırst experi- ment.	Second experi- ment.
Southdown Shropshire Oxford	·· 56.3	55.26 52. <b>88</b> 50.08
Suffolk Lincoln Leicester	·· 55·7	52,54 51,08 51,87
Cotswold Dorset Merino	52.6 51.8	53• <b>57</b> 34.11 49• <b>57</b>
Crossbred	•• 53•7	••••

The Shropshire yearlings fed in comparison with the Shropshire lambs dressed 62.3 per cent.

The details of the slaughter test of lambs in the first experiment made by Swift & Co., of Chicago, are shown in the following tables, giving the weight and percentage of each part :

## METHOD OF CUTTING MUTTON.

The method of cutting a carcass is shown in the accompanying diagram, and the prices given for the several cuts are based upon the Chicago market for prime mutton at the time of this experiment.

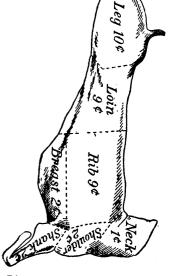


Diagram showing cuts of mutton.

The weights and values given below for the several cuts are the averages made by the seven special mutton breeds in the first experiment.

Leg, 22.2 pounds, at 10 cts..\$2.22 Loin, 17.5 pounds, at 9 cts.. 1.57 Rib, 14.5 pounds, at 9 cts... 1.30 Chuck,\* 19.8 pounds, at 1<sup>3</sup>/<sub>4</sub> cts...34

\* The chuck consists of the breast, shank, shoulder and neck.