

style Pettiality Lust-; flounce is

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eral adoption of the dual purpose type by the beef producers outside the range cwt., not counting labor.

"The items of labor and feed in caring breeding over a large area of the States, is a problem that this generation must from \$45 to \$50. meet unless some practicable solution cattle producing our beef supplies.

"Some of the pertinent points for consideration are: 1. Can cows be found that will throw them into the class of profitable industry. dairy cows, and at the same time when bred to bulls of beef breeding, produce steers that will make, when properly fattened, a satisfactory grade of beef?

facts presented to local conditions.

a satisfactory grade 2. What average capacity for production of milk and butter fat may be men and yet not observing them.

"What's up, I wonder?" mused the the value of such products?
3. The standard of excellence pos-

sible in the steers bred from such cows, and the value of the calves produced on supplemented skim milk?

4. Knowing approximately present possibilities of production, what is the probable expense including feed and labor, of accomplishing certain dual onin' on us!

5. Lastly, what are the possibilities of improvement in perfe economy of production in dual purpose types? There is, of course some limit to the development of the dual capacity. If that li nit has been reached in this country, it must be admitted that it has been reached quickly and without much concerted action upon the part of any large number of breeders.

"Definite data bearing directly upon the possibilities of profit in handling of the dual purpose type of cattle are

1. In the introduction the writer has declared that individual animals of the dual purpose type, the desirable characteristics of which are generally understood, exist.

Performance of grade and registered Shorthorns at the Michigan Experimental Station, grade Shorthorns at the Wisconsin station, and again registered Shorthorns at the Nebraska station, to say nothing of numerous breeders and farmers throughout the country, should be sufficient to prove the possibility of dairy excellence in cows of Iowa station, as well as breeders and farmers, have fattened and marketed "What is't Jim?" asked the Master, somewhat pronounced beef type. The farmers, have fattened and marketed steers from such cows, in some instances the produce of cows with which satisfactory dairy records have been made, that have sold well up to the top of the market. While 'topping the market' is not necessarily an index of the highest | copse quality, it usually accompanies the

slaughterer. grade cows produced in one year an average of 6,288.58 pounds milk containing 251.24 pounds butter fat per receipt what I thour "Then, starting to his knees with a hourse ferry of terror "Save us! what's you theer?"

Then for the first time the Master

American farms as a grade of mixed | cow. The Michigan station published lineage, but usually showing a predomthe dairy performance of a herd of twenty-seven grade cows, the average dual purpose type is of late becoming production of which was 7,009 pounds more popular is believed by many who of milk, containing 259.91 pounds butare in a position to feel the pulse of ter fat.

agricultural sentiment. It is not the The writer is familiar with the type purpose of the writer to champion the of cows used in this latter demonstracause of the dual purpose cow. She tion test, and they were, with a possible exists in this country, and judging from her long continued popularity in Great Britain, she will continue to figure as a factor in American cattledom for generations to come. A partial at least 20 cents per pound and skim excuse for her existence, if one is needed, milk 15 cents per cwt

is that not only she but her offspring a. The Michigan station has shown have the capacity for making beef, that the calf from such cows may be The dual purpose cow bears, then, at made to weigh 380 pounds at six months the present time and is likely to for of age, when fed upon a ration of skim some years to come, a very direct rela-milk valued at 20 cents per cwt. and tion to the beef producing industry of corn bran oats, and oil meal at prevailthe United States. The writer will ing prices, used as supplements to the not long hesitate to advocate the gen- skim milk and at a cost of \$3.42 per

country, if thorough investigation prove for the cow, including milking and calf, this the most profitable type. Certain will vary widely in different sections. it is that the abandonment of beef The labor involved would amount apcattle breeding and eventually of cattle proximately to \$25. The feed for the cow twelve months and the calf six,

"In the above statements no account is soon found that will render the busi- is taken of the fertilizer produced by ness more financially attractive. Other the cow and calf, and this is by no means conditions surrounding the industry an inconsiderable item. Nor is any may change in such a way as to relieve interest on the investment charged. It the necessity for change in the type of must, be admitted that in the light of available definite experimental data on "It is because of the repeated statements of experienced beef producers and breeders of beef cattle that the ment and it is not claimed that the one future supply of beef cattle must be outlined is more than approximately bred from cows that are milked, that correct. It will be noted that a very the writer deemed it essential to con- large item in the above expense account sider briefly the subject of this discussion, leaving the reader to adapt the true when the cows are milked and the calves fed by hand.
"There are those who have settled to

their own satisfaction that the dual purpose cow must yearly become a more produce an ample milk flow, ample to important factor in the beef producing

## Bob, Son of Battle.

postman.

"The fox set 'em clackerin', I reck'n," said the Master.

"No he; he was scared 'maist oot o' his skin," the other answered. Then in tones of suppressed excitement, with his hand on James Moore's arm: "And, look 'ee, theer's ma Gyp a-beck-

There, indeed, on the crest of the rise beside the wood, was the little lurcher, creeping stealthily forward.

"Ma word! theer's summat wrong yonder!" cried Jim, and jerked the post-bags off his shoulder. "Coom on, post-bags off his shoulder. "Coom on, Master!"— and he set off running toward the dog; while James Moore, himself excited now, followed with an agility that belied his years.

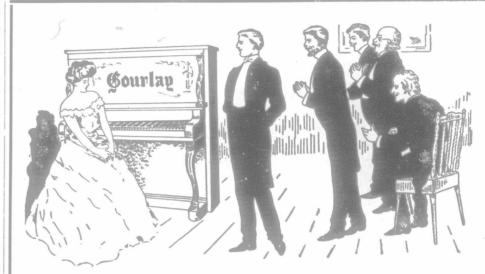
Some score yards from the lower edge of the spinney, upon the farther side of the ridge, a tiny beck babbled through its bed of peat. The two men as they topped the rise, noticed a flock of black-faced mountain-sheep clustered in the dip 'twixt wood and stream They stood marshalled in close array facing half toward the wood, half toward the newcomers, heads up, eyes glaring, handsome as sheep only look

when scared. On the crest of the ridge the two men halted beside Gyp. The postman stood with his head a little forward, listening intently. Then he dropped in the heather like a dead man, pulling

the other with him.
"Doon, mon!" he whispered, clutch

now thoroughly roused. "Summat movin' i' th' wood," the other whispered, listening weasel-eared. So they lay motionless for a while; but there came no sound from the

'Appen 'twas nowt," the postman sale of bullocks very satisfactory to the slaughterer. at length allowed, peering cautiously about. "And yet I thowt I dunno



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