WINTER WHEAT AND RYE.—These crops are much improved by harrowing. If the ground is dry, the plants will not be harmed, but the crust will be loosened, earth will be drawn over the plants that have been heaved, and the just starting weeds will be killed. The Thomas harrow, having light, leasting teath is admirable for this work but the slanting teeth, is admirable for this work, but the common harrow enay be used instead of it. Agriculturist.

DIVERSIFY MORE-Let us have more sheep. They are a safe investment even in grasshopper regions. There is no meat so wholesome as good mutton, and it is always in demand. And then wool commands fair prices, though a good deal of it should be worked and used at home. In these hard times much money could be saved, if we had more homemade woolens and stockings, giving us something durable and substantial in place of the shoddy which comes in from abroad.

BARLEY .- Skillful management is required to succeed with this crop. Peculiar soils are required to produce a clear thin skinned, bright colored sample, such as brings the best price in the market. A friable, clean, mellow, dry, limestone clay loam is perhaps the best soil, but some lighter soils, that are warm and rich, will poluce good barley. The soil must be thoroughly worked, and free from weeds. Barley should always be drilled, and the seed placed at an even depth below the surface. There is no better crop with which to sow to

How to PREVENT WEEVIL IN WHEAT .- A correspondent in the Country Gentleman says: "Some years ago, hearing complaint of weevil in wheat about the close of the harvest, when I was ricking my wheat, I got fresh slacked lime and threw over the rick in building it—laying two courses of sheves, then lime sufficient to whiten the stack. There was no weevil in my wheat. A neighbor who threshed his wheat from the shock came to me a few days after and said he should loose his wheat, for it was alive with weevil. I told him to throw lime over it, and shovel it through his wheat, which he did. Two days afterwards there was not a weevil to be seen in it.

How to Build A Snoke-House.—The Western Farm Journal says: "A smoke-house built so as to prevent the admission of light and at the same time insure ventilation, and a degree of coolness so that the meat will not mold, may be had by placing it under the shade of a spreading tree. It should be built of brick, with an ample flue on the top, protected with blinds at the sides, and a wire gauze at the bottom to prevent the admission of insects, the gauze to be removed when smoking the meat. Another flue at the bottom protected with gauze allows the admission of air. Thus the house may keep cool and well ventilated, and by throwing it entirely open occasionally at night, when dry, meat may be kept perfectly for a long time. This smokehouse may be used for a variety of purposes, as for the keeping of ashes in districts where wood is used

OATS.—Oats will succeed upon soils were barley would fail. A rough sod and a moist soil will grow good oats; it is the best spring crop for a reclaimed swamp or a newly broken clayey meadow. Two and a half bushels of seed per acre is light seeding; three bushels if drilled, or three and a half of broadcast, is sometimes sown with good results. The thick seeding yields a finer stock, which makes a more desirable fodder than stouter straw. Oats and peas, sown together, produce a very nutritious fod-der. The two crops together, upon one acre of good soil, will yield nearly, if not quite as much fodder as would an acre of each sown separately. We have sown two bushels of oats and six pecks of peas to the acre. If sown early, the fodder may be cut for soiling cows or horses in May or June. and a succession for continuous use may be sown every two weeks until early in May, Roll the ground after sowing, so that the crop may be cut with a mower, which may easily be done, as the oats support the peas and prevent lodging. Other fodder crops are barley and tare, vetches, spring rye, and in the Southern States the cow pea may be added to these. A few acres of some early fodder crops will be found useful for feeding green, or for cutting or curing for hay.

NORMAL MILK SECRETION .- Milk in its normal secretion is a pure, yellowish-white fluid, of an agreeable, sweetish taste, with more or less peculiar odor. Professor Mott, of New York, in his late paper, read before the New York State Dairymen's Association, enumerates the following conditions, which it is essential to note prior to the analysis of a cow's milk by the chemist:-The age of the cow; the number of calves she has had; how long after she dropped her calf was the sample obtained; breed of the cow; color; from which teat was the sample obtained? was the sample a fair average of the milk drawn at the regular time of milking; or was the sample taken from the begining, middle or end of milking? How large was the secretion? Was the cow in perfect health or pregnant? of strong or feeble constitution? worried or quiet just previous to or when milked? Had she plenty of good food? Was the sample morning or evening? It is manifest from the conditions enumerated above, which are far from being exhaustive, that all should be known before the milk of two cows can be compared by analysis. Goup Besaney suggests that "strictly speaking, only those analyses are comparable that are made by the same method of analysis." Below is given the average analyses of thirty-four chemists, all possible conditions, as stated, having been considered. The following is one of not less than 1000 analyses :--

	. 00.00
Milk-solids	. 13.40
	100.00
Fat	286
Caseine	
Milk-sugar	. 418
Mineral constituents	. 0.68

Facts and observations go to prove that the quality of milk depends upon the race and breed of the cow, more perhaps than upon the feed. It was found by Vernois and Becquerel, on examining the milk of fourteen breeds and races of cows, that the milk-solids varied between 11.70 and 19.68 per cent. (the average as stated above being 13 40 per cent.), the fat or butyraceous quality being 3.24 and 9.88 per cent. E. Marchand found, by analysis, that the milk of the pure Normandy breed is richer than the milk of the cross bred with the Shorthorn. O. C. Wiggin found, by analysis, that the milk of seven breeds of cows contained of milk-solids between 12.85 and 16.96 per cent., and fat between 3.87 and 8.07 per cent. J. Kuhu, and J. Lehmann came to the conclusion, after a series of analyses, that quality of milk depends, largely upon breed. They demonstrated that the milk of the Shorthorn is considerably richer than that of the Holstein, though the latter furnished the larger quantity of milk. Though the Shorthorn cow gave 11.36 pounds of milk less than the Holstein, the butter in the given quantity of milk amounted to five pounds more than that of the Holstein.

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		Capt R. S. Watts.
MANITOBAN		
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1	и	************************	2,000		2,000	
1	41	** ****** ***** ***********************	.1,000	00	1,008	
1	u	•••••	500	00	500	
5	"	****** **** ******************	100	00	500	00
5	44	···· ···· ··· ··· ··· ··· ··· ··· ···	50	80	250	00
25	4	****** ***********************	10	60	250	00
500	Building	Lots, valued each at	000	00	250,000	00
50	Prizes,	44	24	00	1,200	
20	u	α	20	00	400	
42	46	"	18	00	756	00
8	"	"	6	00	48	00
12	tt	"	32	00	384	00
12	44	"	6	00	• 72	00
12	16	41	30	00	360	00
290	u	"	3	00	870	00
1000	44	"	2	00	2,000	00
2000	16		1	00	2,000	
1	"	44	4	00		00
				—		
	Т	tal			\$272,594	00

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