

EDITORIAL.

Publishers' Announcement.

430

The present is a critical period in Canadian farming. Men realize, as never before, the need for *reliable*, *practical* and *seasonable* information on all branches of agriculture—general farm management, the growing of crops, the rearing of live stock, and the preparation and marketing of farm products. To keep posted, read the FARMER'S ADVOCATE.

Intelligent, wide-awake farmers everywhere appreciate the ADVOCATE because they find reading it pays them. To succeed, men must read about *their* own business. One dollar (\$1) for the ADVOCATE from now till the end of 1895 is a small but paying investment. Next year it will be made better than ever before.

We thank our readers for their appreciation, and ask them to induce others to give it a trial for one year. By so doing you will benefit them, and help us to improve the paper. Renew promptly and send us the names and post-office addresses of any persons not taking it, and we will mail them a sample copy free. Our circulation may thus be easily doubled.

Those subscribing now will receive the remainder of this year free. Thrifty, enterprising men quickly recognize its merits, and our agents are doing well.

Read the premium page elsewhere, and secure the advantage of an early start.

An Outspoken Reader.

DISCARDS A BATCH OF WORTHLESS PAPERS, BUT RETAINS THE "FARMER'S ADVOCATE."

DEAR SIR,—I have been looking over my list of papers, with a view to economy, and culling out the useless ones, for the majority are worthless for any purpose but waste paper; but I cannot afford to be without yours, for I consider it can stand by the side of any agricultural paper printed on the American continent. Furthermore, I consider myself mean for running behind in my subscription. You will find enclosed \$2 for the balance of this year and next year's subscription.

I remain, yours truly,

W. D. CAVAN, Dunmore. P. S.—You are at liberty to publish this.—W. D. C.

The annual meeting of the Ontario Agricultural and Experimental Union will be held at Guelph on Dec. 20 and 21.

Even full-grown hogs can be killed by an overfeed of wheat. It is very toothsome to swine, and in their greed they swallow a lot of imperfectly masticated grain, that causes a derangement often fatal. Wheat should be ground or rolled coarsely. If ground finely it forms into a doughy mass (unless made very sloppy) in the animal's stomach, which is very hard indeed to digest, and is very liable to produce colic. Even ground wheat is better to be soaked before feeding. Commence feeding it

Our First Page Portrait.

On the first page in this issue appears a portrait of the champion English Hackney stallion Ganymede 2076, the property of Mr. Tom Mitchell, The Park, Eccleshill, Bradford. This portrait was from the original picture by Mr. Palfrey in the possession of the Hackney Horse Society, and reproduced by permission in the London (Eng.) Live Stock Journal. Ganymede was got by Sir Walter Gilbey's Danegelt 174, his dam having been Patience 491 by Phenomenon 584. He was first and champion at the Hackney Society's London Show this year, and previous to that occasion had won the following prizes :- First Pocklington, 1890; second Hackney Horse Society's Show, and reserve number for champion cup, London, 1891 (182 entries). 1892: Third Hackney Horse Society's Show, London; first Yorkshire Agricultural Society; first Otley; first Bradford; first Doncaster; first Royal Manchester and Liverpool; first Peterborough; first Keighley; first Skipton; first Harrogate; first Halifax : first Bingley. His son Goodmanham Squire was winner of the first prize in the three-year-old class at London, and of the cup as the best young stallion; while other animals got by him are of high promise, and have distinguished themselves.

Agriculture in British Columbia.

Notwithstanding the fact that British Columbia is in some respects a new country, farming has been enabled, by the aid of the Department of Agriculture of that country, to make very rapid strides during the last few years. We are in receipt of the third annual volume issued by that department. Reports from many centres give a general impression that British Columbia is fast becoming an important agricultural province. All sorts of cereals that grow well in Ontario do well there. In some districts drouth calls for irregation, which is extensively carried on. Summer frosts rarely if ever do any appreciable damage. In most sections roots and potatoes find conditions extremely suitable to their growth and development. The size often obtained under ordinary conditions exceed Ontario's most pampered produce. Ordinary fruits do well in many sections. Apple trees that have been set out a few years are now bearing well, which fact is inducing the planting of many large orchards. Dairying, hog-raising and poultry-keep. ing are not as yet receiving much attention, but the tendency is a marked increase in those directions in the near future. Unfortunately diseases of both animals and plants are there doing deadly work whenever neglected. Weeds and insect pests require about the same attention as in Ontario. Coyotes or prairie wolves hinder sheep-raising considerably, as they are very destructive on young lambs. The \$2.50 bounty now being paid for their brush is having a decreasing effect on their numbers. There is still a serious lack of good roads, many of them crossing streams without bridges, so

NOVEMBER 1, 1894

A Glance Abroad.

We sometimes flatter ourselves that Canada has devised exceedingly liberal things for the advancement of agriculture. During recent years, it is true, Dominion and Provincial Governments have vied with each other in setting agencies at work for the purpose of increasing the sum total of agricultural knowledge and placing it within access of the people. As the country grows older improved methods and new lines of farming become more and more necessary. Great Britain realized this long ago. Many of us have but a faint idea of the high standard of agriculture very commonly maintained in the motherland. Agricultural education is constantly receiving more and more attention there. but across the channel, in France, technical instruction in this department of human industry is far in advance of what is attempted in Great Britain. In fact, one of our British exchanges frankly states that in comparison with France, what Britain is doing is hardly worth naming.

In Great Britain the Board of Agriculture has the sum of £8,000 placed at its disposal, and when this is added to what county councils and semi-private organizations provide the sum total is really very small. In France £1,047,600 is set aside annually to encourage agriculture, and of this sum £131,320 is devoted exclusively to what we understand by technical education, while no inconsiderable proportion of the balance of £906,281 is in one form or another made subservient to the same end. This very large amount is voted even in the excitable arena of the French Chamber of Deputies without a cavil, all parties being agreed that no money is more profitably expended from the national exchequer.

The whole system is so graduated that every department of agriculture is given due consideration. At the top stands the highly scientific Agronomic Institute, a nursery for professors and men of study and research. Then comes three great national schools of agriculture, in which twenty-six professors and large staffs of demonstrators and lecturers are bending their energies to the training of landowners and extensive farmers. In connection with these are numerous dairy institutes. There are horse-breeding schools, as well as institutions that give their entire attention to poultry rearing, and others to the teaching of the principles of draining and irregation. In the same grade are what are called apprentice schools, in which the children of the peasants are taught how to become efficient farm servants; and after all this, the State devotes £4,000 per annum to the subsidizing of private dairy schools, and defrays the expense of a limited number of pupils attending the chief Poultry Rearing Schools. Under this head parties of young people are sent to study the systems of buttermaking followed in Holland, Denmark and Switzerland. And for the benefit of those who are too old or too stubborn to attend some of the numerous places of instruction, are sent 90 travelling professors and 114 assistant professors itinerating country, lecturing, experimenting and advising in countless ways and forms. Last year these gentlemen delivered 3,509 lectures, which were listened to by something like 300,000 persons engaged in the cultivation of the soil. France does even more than this, but enough has been said to indicate the littleness, comparatively, of what Great Britain and our own country are doing to promote technical instruction in agriculture.



in conjunction with other food, and in accordance with suggestions thrown out in the last issue of the ADVOCATE.

Generally speaking, the best time to sell winter apples is as soon as they are picked, as it saves the cost and loss in storing, rotting, extra handling, etc. We have no hesitation in saying that the above rule may safely be departed from this season, provided a suitable storing place can be secured. Reports of the world's apple crop look like a shortage, which must, according to the law of supply and demand, raise the present price to a considerably advanced one before long. The price being paid at present in many Ontario sections is from \$1 to \$1.50 per bbl. for first quality winter fruit. This price is not enough, as will be seen before three months have gone round.

Says the English "Chronicle":--"This year British farmers are blessed with a bounteous crop of roots and hay, which they are unable to consume profitably, owing to the high price of store stock, and yet the Ministry of Agriculture still keeps our ports closed to Canadian cattle, which make beef very quickly in England when fed by English graziers. Deputations without end have waited upon Mr. Gardner, from the Scotch farmers, asking him to remove the embargo, but hitherto in vain, and now these, reinforced by the feeders of Lincolnshire and Norfolk, in their demand are becoming very angry. We have 'Free Trade' to compete with, they say, and we are prepared to contend against the world, but surely, while you insist upon Free Trade, you cannot expect us to quietly submit to the total exclusion of one of the most heable of our raw materials."

that fording is necessary. In times of freshets, which often occur from the mountains, transit is entirely shut off. Much is being done at present to improve these conditions. The exports from British Columbia to countries outside of Canada from June 30, 1892, to the same date in 1893, are :

III Julie 00, 1002, 00 the state	
Horses to the value of\$	2,955.00
Horned cattle	200.00
Swine	10.00
Poultry and other animals	8,568.00
Meats etc.	71,722.00
Grain, seeds, etc., and produce of	21,880.00
Fruit and vegetables	3,502.00
Dairy produce	3,210.00
Hay	60.00
Trees and bushes	112.00
Trees and ousnes.	

Total \$112,219.00

" Half Fat" Hogs.

Reports in the daily papers lately contained a great outcry against the number of "half fat" hogs that were going into the Toronto market. From the excessively fat extreme, feeders have been going to another, stimulated by the demand for "lean" bacon. Packers have asked for what used to be called "half fat" hogs, but we do not think they meant store hogs or poorly fed hogs. To get a good, edible quality of meat, we believe hogs, as well as, for example, beef cattle, must be well fed. What could be less inviting than a piece of roast or steak from a skinny, half-finished beeve. By a proper system of breeding and feeding, pork can be produced which, while not excessively fat, is at the same time toothsome and nutritious. For other reasons as well, it is a great mistake to flood the market with animals that should have a month or two more of good feeding before going there.

It is not surprising to find that the agricultural exports of France are largely increasing.

We have received from Isaac Usher & Son, the cement manufacturers, Thorold, Ont., a vigorous specimen of the Russian thistle, picked up near one of their warehouses, where the seed is supposed to have been brough in a car, the cleanings of which were probably dumped alongside the track. We are under the impression that this pest has secured a lodgment in more places than is generally suspected. The description and illustrations which have appeared in the ADVOCATE will enable our readers to recognize it at once, and then take the necessary precautions to prevent its spread. Too great vigilance cannot be exercised at the outset, otherwise the country will be overrun with it. The Manitoba Government is to be commended for the energetic measures they have taken to root it out of that Province. Municipal councils would do well to issue special instructions to their "thistle" or "weed inspectors" to make a careful inspection, particularly all along all railway lines, in order that the very first encroaches may be checked. Every farmer living along a railway line should watch for it in his own interests.

NOVEMBER 1, 1894

FARMER'S ADVOCATE. THE

STOCK.

Mr. Duthie's Successful Sale.

offered and sold, on October 9th, a large draft of

grandly-bred females, and the whole of his 1894

'crop" of bull calves. The sale took place at the

farm of Tillycairn, in the presence of a distin-

many breeders of eminence from England and Ire-

land, one or two from Canada, and the elite of the

many years since the appearance of an Englishman

at a sale of Shorthorns in Scotland was an almost

unheard-of occurrence. Every sale, since Mr.

Duthie's first, has had an increased number of Eng-

to secure some of the best strains of "Cruickshank"

Collynie in natural succession to Sittyton, upon

The draft, which, as has been stated, included, in addition to the bull calves, a draft of over forty

saying that breeders appreciated the opportunity

that was offered of securing some of the blood upon which Mr. Cruickshank made his world-wide repu-

tation. The bull calves were a "crack" lot, dis-

tation. The bull calves were a clack third playing quite as much type, breeding and quality as playing quite as much type. Collynie sales. The

average of the bull calves just stopped short of the record average of 1893, but, with this exception, it

is the highest of the eleven sales which have been

held at Collynie. One hundred and ten guineas, which was paid for each of two, was the highest

figure reached. One animal, being a roan calf, "Now

or Never," got by Scottish Archer, and out of Sitty-

ton Nonpariel, is a low-standing, deep-fleshed, blocky" animal, with rare middle. He was com-

menced at 45 guineas, and ultimately knocked down

to Mr. Garne at 110 guineas. The other was Bride-groom, also a roan of beautiful symmetry and sub-

stance. He was secured by Mr. Gilmore, of Montrave.

Another roan calf, Watchward, reached the three

quarters. These envied figures, at this age of ac-

To think that this year's sale has only been sur-

those generally seen at the Collynie sales.

indeed, his standard has been largely

Shorthorn" men of the north. It is not very

THE FARMER'S ADVOCATE & HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE

DOMINION. PUBLISHED BY

THE WILLIAM WELD COMPANY (LIMITED).

LONDON, ONT., and WINNIPEG. MAN. JOHN WELD, Manager. F. W. HODSON, Editor

guished and representative company, including 1. The Farmer's Advocate is published on the first and fifteenth of each month.

It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most profitable, practical and reliable information for farmers, dairymen, gardeners and stockmen, of any publication in Capada in Canada.

- Terms of Subscription—\$1.00 per year in advance: \$1.25 if in arrears; sample copy free. European subscription, 6s. or \$1.50. New subscriptions can commence with any month.
- 8. Advertising Rates—Single insertion, 30 cents per line. Con-tract rates furnished on application.
- lishmen, who now form quite an important ele-ment of discriminating and liberal purchasers. The position which the Collynie herd holds in that coun-Discontinuances—Remember that the publisher must be notified by letter or post card when a subscriber wishes his paper stopped. All arrearages must be paid. Returning your paper will not enable us to discontinue it, as we cannot find your name on our books unless your Post Office address try has not come by chance, but by long-continued and persistent effort on the part of the owner, who,
- 5. The Law is, that all subscribers to newspapers are held responsible until all arrearages are paid, and their paper blood, has spent what would be considered a fortune by many. By breeding only the best to the best, keeping in view individual excellence, as found ordered to be discontinued.
- 6. Remittances should be made direct to this office, either by Registered Letter or Money Order, which will be at our risk. When made otherwise we cannot be responsible. in the best of the Scotch tribes of Shorthorns, and by bestowing much attention and care on the produc-tion of naturally well-fleshed and sound-constitu-tioned stock, Mr. Duthie has succeeded in placing
- 7. The Advocate is sent to subscribers until an explicit order is received for its discontinuance. All payments of arrearages must be made as required by law.
- 8. Always give the Name of the Post Office to which your paper Your name cannot be found on our books unless this is done
- 9. The Date on your Label shows to what time your subscrip-tion is paid. head of cows and heifers, was, to put it briefly, worthy of the reputation of the owner and his mag-
- 10. Subscribers failing to receive their paper promptly and regularly will confer a favor by reporting the fact at once.
- regularly will confer a favor by reporting the fact at once. 11. We Invite Farmers to write us on any agricultural topic. We are always pleased to receive practical articles. For such as we consider valuable we will pay ten cents per inch printed matter. Criticisms of Articles, Suggestions How to Improve the ADVOCATE, Descriptions of New Grains, Roots or Vegetables not generally known, Particulars of Experi-ments Tried, or Improved Methods of Cultivation are each and all welcome, Contributions sent us must not be furnished other papers until after they have appeared in our columns. Rejected matter will be returned on receipt of postage. uificent herd, and the response of the breeders was quite in keeping with the high character of the offering. Among the cows there were a number of straight-bred Sittyton cattle, and it goes without of postage.
- 12. Replies to circulars and letters of enquiry sent from this office will not be paid for as provided above. 13. No anonymous communications or enquiries will receive
- attention

Address THE FARMER'S ADVOCATE, or THE WILLIAM WELD CO., LONDON, ONTARIO, CANADA.

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Chatty Stock Letter from the States. FROM OUR CHICAGO CORRESPONDENT.

since.

Top native cattle, \$6.00; being a little lower than two weeks ago; best heavy hogs, \$5.00; being Mr. Wm. Duthie, of Collynie, Scotland, who 50c. lower; best sheep, \$315; being 50c. lower; now occupies the position of almost unchallenged best lambs, \$3.75, being 50c. lower than a fortnight supremacy in that country as a Shorthorn breeder,

The beef cattle market lately has had three depressing influences at work: (1) Liberal receipts; (2) bad foreign outlet; (3) heavy runs of cheap range cattle.

The hog market has continued on the down grade, and good droves of packing hogs, averaging 250 to 300 lbs., have been bought as low as \$4.61. At these prices the demand has seemed to improve, and with \$5.00 for the top, and \$4.75 for the average, buyers seem willing to operate quite freely. The quality of the hogs is getting a little better, but is far from the average winter packing season standard.

One of Armour & Co.'s cattle buyers declares that there will be a scramble to get cattle enough as soon as the Northwestern range season is over. The first big storms on the plains usually wind up the range cattle season.

One of the largest American cattle exporters is said to have dropped over \$100,000 in the past two months.

Distillery cattle feeders are taking in large numbers of western range cattle at \$2.75 to \$3.25, getting good ones around \$3.00.

The marketing of Mexican cattle has commenced under the new ad valorem duty of 20 per cent, Owing to the poor quality of the cattle from the Southern Republic, the tax only amounts to about \$2 to \$4 per head. This rate can be paid and still leave a profit to owners, but the former specific rate of \$10 per head, regardless of quality, was prohibitive on the common cattle-the only kind Mexico has to send. The trial shipment, consisting of 234 steers, averaging 821 lbs., sold at \$2.45, and 50 cows, 762 lbs., at \$2.25. The cattle came from the George L. Cheesman ranch, at Sabinas, Mexico, and were shipped by H. Gonzalez. They crossed the line at Eagle Pass, and the ad valorem duty on the whole lot was \$600, which was about 10 per cent. of their valuation on the market. The freight was \$161.55 per car, and the cattle netted \$10.83 per head.

The Continental Pork Packing Co., headed by T. E. Wells, formerly of the International Packing Co., is the newest venture in the pork packing business. The new concern seems to be well equipped for business.

Pork packing at Chicago, since March 1, shows an increase of 284,009 hogs, compared with the returns for the corresponding time in 1893. The packers seem to have the price of hogs down to a basis they consider safe for business, and they are showing more activity than for some time past. Eleven of them are now operating in the hog mar-

Compared with a year ago, present prices for various farm products show the following changes : Cash wheat, 9c. lower; May wheat, 12c. lower; cash corn, 124c. higher; May corn, 9c. higher; cash cots, 12.30; higher; May oats, 22. higher; mess pork, January delivery, \$2.00 lower; lard, cash, \$2.70 lower; January delivery, \$1.35 lower; short rib sides, cash, \$2.60 lower; January, \$1.20 lower; hogs, \$1.85 lower; fat cattle, but little different, and sheep, \$1.00 per 100 lbs. lower The forthcoming Chicago Fat Stock show will be held in the heart of the city, at State and Sixteenth streets, and not at the stock yards as was originally planned. A prominent feature of the show this year will be the horse department, which, for a time, has been divorced from these annual exhibits of fat stock. The sheep market has been flooded with breed-ing stock. Receipts of ewes lately have been very ing stock. Receipts of ewes lately have been very heavy, and the demand for them very light. Lambs, too, except the choice kinds, have been in very heavy supply, and they have sold as low as \$1.50 per 100 lbs., which isn't much per head on a light lamb. There were three weeks in suc-cession lately when receipts here were \$0,225,95,-(0)1 and 93,425 head, making an average of \$9,780head per week. The largest run on record for one week previous was \$2,906 head, received during the middle of October. last year. There were four days middle of October, last year. There were four days in succession when the average receipts were 20,000 head. That is "slaughtering the innocents" at a rapid rate.

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Contributors and Enquirers-A Request.

Persons sending enquiries for our "QUESTIONS AND ANSWERS DEPARTMENT," or letters or articles for publication, will oblige us by always giving their Post Office, and Province or State, together with name plainly written, in order that no mistakes may arise. In several letters we have lately received this has been overlooked.

Clubbing Rates for 1895.

Our subscribers may obtain any of the pa	per
mentioned below at the following price :-	
FARMER'S ADVOCATE and Home Magazine and	
Toronto Evening News	15
Toronto Daily Globe, morning edition	0.0
Toronto Daily Globe, second edition	4 0
Toronto Empire, daily	6 (
Toronto Empire, evening edition.	3 5
Toronto Weekly Mail or Farm and Fireside	1 :
The two combined	1 (
Toronto Weekly Globe (12 pages)	14
Toronto Weekly Empire	1.5
London Free Press, weekly edition	17
London Advertiser, weekly	17
Montreal Weekly Witness	1 (

ba; Sod for Peas.	passed in average once in eleven years, and that in
	1893, must be to Mr. Duthie a pronounced satisfac- tion that his able efforts are being appreciated.
	SUMMARY.

which.

modelled.

	SUMA	Ave			То	tal.	
15	cows				£ 568	1	0
3	two-year-old heifer	. 21	0	0	63	0	0
	yearling heifers.	38	5	4	344	8	0
17	heifer calves	33	4	7	564	18	0
30	bull calves	. 49	10	6	1,485	15	0
_							-
74		£40	17	10	£3,026	2	0

The following table gives the averages for the ynie bull calves since 1883 : --

Year.	No.	Average.
1894	30	£49 10 6
1893		
1892	02	91 10 4
1890	40	
1889	10	45 6 9
1888	21	36 15 0
1887	7	24 6 0
1886	19	28 5 4
1885		37 7 6
1884	1.0	38 10 10
1883	1.9	43 6 3

Clipping and Singeing Horses.

Road horses that naturally grow heavy coats, will do their work much easier and with less risk of catching cold if clipped or singed. If clipped, it should be done no later than Nov. 1st, as they will then have a few weeks to grow at least a protec-tion before winter sets in. Except for the appearance of the horse, singeing is to be preferred, as by it the length of the hair can be controlled at will it the length of the hair can be controlled at will on the different parts of the body. For example, the flanks, thighs, shoulders and belly should be singed quite closely, while the neck and back may be left fairly well covered. A singed or clipped horse should not be allowed to stand uncovered even ten minutes after a drive, as the danger of congestion 60 from exposure is considerable in such a case. No stable that has road horses is complete without a 40 75 singer, as by it even a fine coated horse can be im70 proved in appearance by scorching off the long
69 hairs around the jaws, throat, ears, flanks, etc.

In the exposition building at the Illinois State Fair on September 28, a number of prominent poultry on September 28, a number of prominent poultry and pet stock breeders of the State effected the per-manent organization of the Illinois State Poultry and Pet Stock Association, by the election of the following officers:—President, Grant M. Curtis, of Quincy; Vice-President, Mrs. R. A. Judy, of De-catur; Secretary, Edward Levings, of Paris; Treas-urer, Rainey Miller, of Champaign; Executive Committee—Isaac Root and S. S. Noble, of Bloom-ington; Daniel Robertson, of Palmyra; S. T. Jones, of Williamsville, and M. W. Summers, of Curran.

How to Drench a Horse.

Much unnecessary cruelty has been borne by horses, simply from the ignorant brutality of attendants. The too common method of drenching a horse by way of his nostrils, merits attention on the part of societies for the prevention of cruelty to animals. Not only is such a practice extremely painful to the patient, but there is great danger of a portion of the fluid entering the windpipe instead of the gullet, thereby reaching the lungs as a foreign substance, causing violent coughing, irritation, and finally, inflammation of the lungs.

In most farmers' stables, drenching bits and such improved appliances are seldom at hand, the ordinary method being with a twitch in the nose, and the use of a long-necked bottle. In this, there is always the attendant danger of the bottle being broken by the teeth, allowing portions of the glass to be swallowed, causing much danger to the horse. To do away with risk of breaking the bottle, an ordinary bridle is recommended, with long reins attached to the upper side of the bit rings, passed through rings in the "sleeper" of the loft, directly over where the horse is to stand. Now, stand on something high enough to bring you within easy reach of his mouth when the head is raised. By means of the loose reins, draw his head high enough so that the medicine cannot run from the corners of the mouth. Allow the tongue perfect freedom, and with the right hand pour the liquid slowly into his mouth at the corner, when he will soon be noticed to swallow. Should he remain without swallowing too long, just confine the nostrils for a moment with the hand, and the medicine will go down. His head should be lowered once or twice during the operation if the dose is large.

FARM.

Popular Geology-No. 6.

BY PROF. J. HOYES PANTON, M. A., F. G. S.

ICE. - The action of ice as a disintegrative agent upon rocks, is best seen in countries where a perpetual snow line exists. The snow keeps increas ing, until so much accumulates on the mountain tops that it finally moves down into the valley. If the mountain slope is steep, the body of snow and ice will move down with great rapidity and force, sweeping everything before it.

This is an avalanche; they are often heard in the Rocky Mountains. The avenues, apparently cut through forests, up the mountain side, indicate to an observer the pathway of an avalanche.

If the slope is very gradual, the body of ice will move slowly, and form a *glacier*, or river of ice. The movement of this may be very slow, not exceeding 3-15 inches per day, but it will move on, grinding and wearing the rocks beneath it, and bordering its sides until it reaches either the sea or a place in the valley where the temperature is sufficient to melt it; there it melts and becomes the source of a river, and scatters at its terminus the boulders, gravel, sand and clay it has formed and gathered in its course through mountain ravines. The Muir Glacier, of Alaska, is three miles wide, many long, and upwards of 700 feet thick. Some of the glaciers of the Alps are twenty miles long, two miles wide, and 300 feet thick. The Humboldt, of Greenland, is 45 miles wide, and 300 feet thick. Where the glacier reaches the sea it pushes out

Soiling vs. Pasture. BY F. J. S.

In answer to the gentleman who doubts the practicability of some of my points in "Which Shall It Be ?" I would offer the following :--

1. He asks, "Will it not take more feed than I can raise to stall-feed my cows practically the year round?" No; one acre of a seasonable soiling crop will feed more milch cows than five of pasture during the major portion of a Canadian summer; for instance, the one just experienced. Certainly, less land will keep your cows on a system of partial soiling, such as we have indicated, than on a system of pasturing. It is not too much to say that cows can no longer depend upon pasture alone in Ontario, and give the most satisfactory returns. The cheapest and the best butter cannot be made from dried pasture, such as the average conditions of this country supply. In short, the partial soiling system is a necessity in the dairy herd, and the question is not, Can I raise enough feed ? but rather the price of labor? If capable help can be had at reasonable figures, the profit and satisfaction of the system is assured, at least, if the writer may judge from his own practical experience in the matter.

2. "What would you feed them during July, August, September and October?'

In Western Ontario I think the majority or farmers might very profitably seed down an acre of so to lucerne or alfalfa. While a little difficult to establish, it is pretty safe and sure when once in the soil, especially if over a rather dry, open subsoil. This is a splendid soiling crop, as it may be cut, on good soils and with proper management, four or five times a season. It should not be pastured nor allowed to mature. This will make a good, early soiling crop, and will be useful to fill gaps between other crops all through the season. During the early summer the cereals and legumes will give good results. Tares and barley and oats, mixed for first sowing, should be put in as early as possible; then such mixtures as peas and oats, peas and spring wheat, etc, may follow these, to be sown, perhaps, two weeks later. These crops in your section will, we think, see you till early corn is ready; after that your supply of green fodder is assured during the rest of the season and, if you choose to build a silo, till you turn your cows on to your fall rye, or crimson clover, in the following spring Do not feed any class of green fodder while very young, as it will usually result in disappointment. Remember that the legumes are rather better for milk-producing than the cereals.

3. "I would like your ideas as to daily rations the year round.

As to this matter, it is impossible to do more than outline. When turned to grass in the spring. the grass itself, with all the pure water they care to drink, and all the salt they care to eat (always be-fore them), will be sufficient. When grass com-mences to fail, and heat and flies increase, they should receive in the stable as much green fodder as they will eat at noon, and, as the season advances and pasture decreases, all they will eat cleanly, morn-ing and night, and they will also respond with profit to a light feed, say a pound or two, of bran, ground wheat, ground oats and corn, or some such mixture,

which may be increased to as the season advances, if required. The amount of green feed will depend upon the scarcity of the pasture to which they have access at nights. When feeding good corn fodder, less grain will be required, and what is given should be of an albuminoid and of a fat-forming character-bran, oats, peas, oil-cake, e. g. The basis of the cheapest winter rations for milch cows is undoubtedly ensilage. Forty to fifty lbs. ensilage, five to ten lbs. of hay (clover pre-ferred) and straw mixed and cut, and eight or nine lbs. of grain, may be considered a fair daily ration for an average sized cow. Of course, it is only the competent feeder. who has charge of the animals, who can say exactly how much a cow should have. The grain ration may consist of oats, wheat and bran, in equal parts by weight, or corn (the grain) may be substituted for the wheat, if desired. Peas, corn and bran might also be fed in similar proportions. If the "15 acres of (dent) corn" is to be matured, and you desire to feed more corn, you might offset the one-sideness of the ration by the addition of a pound or two of oil-cake. It is always advantageous to remember that milch cows give best results on rations that incline to an albuminoid character : that is, those having a narrow nutritive ratio. But space forbids further comment, except to say that grain is best ground and fed dry. If you desire to feed some of your mangels to your milch cows, feed a little less silage and give a small feed of the roots at noon, cutting them and sprinkling them with grain, and you may mix the whole with cut feed (hay and straw). Remember that variety is a spice to the food of milch cows, as well as to higher animals. I think your proposed cropping for '95 is better than for '94, in more ways than one. Less wheat, less hay and pasture, and more oats and corn will. we think, suit your purpose better. You might possibly increase your ensilage corn with advantage, as milch cows are not the only class of stock that will utilize fodder corn to advantage.

NOVEMBER 1, 1804

What Shall We Do? BY "PLOWMAN."

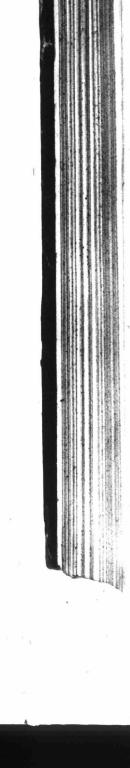
At the present time, when the scarcity of money

is felt on every hand, not only among farmers, but among men in every line of business, the above is a question that is engaging the serious consideration of every wide-awake man. The solution of such a question requires the most careful and intelligent study, not alone of the present situation, but of the future prospects. It would not be hard to decide what has been the most profitable line of farming during the past year. I believe it is an almost undisputed fact that dairymen feel the present stringency perhaps lighter than any other class of the agricultural community. But having decided this, we are confronted with the question, How long is this likely to last?" "Oh!" says some enthusiastic dairyman, "There will always be a demand for good butter and cheese ; they are staple commodities." Granted, but then wheat is a staple commodity, too, and yet it no longer pays. The time is fresh within the memory of us all when a man could make more money out of a good, roomy brood mare, than you could from half-adozen cows, and, yet, contrary to the expectation of not a few of us, this state of affairs has been exactly reversed, and as the past is always a fair index of the future, there is just reason to fear that by the time we get ourselves properly equipped for the carrying on of a rushing business in butter and cheese, these staple commodities may take a drop, and we feel a little "left," while some other branch of agriculture will be in the ascendancy. So it would be very unsafe, as well as unwise, to advocate the general adoption of any one branch of agriculture as a safe and sure remedy for that gaunt feeling from which the farmer's pocketbook is suffering. It becomes us to be very cautious in making a change from any one branch of agriculture to another. I think it safer and better to stick to that one about which we are best informed, and for which we have gotten our farms and our buildings specially equipped, and although times are a little hard just now, let us not be discouraged, for—"The tide will turn if ye bide awee." But while waiting for the tide to turn, let us examine ourselves. Are we practicing the greatest possible economy in the carrying on of our business? Are we allowing anything to go to waste which could be turned to a useful purpose? Are we making every acre do its share? Is any of our stock sponging its board, living, as it were, on the profit yielded by the others? And are we keeping ourselves informed on the latest and most approved methods, studying carefully the most reliable literature, treating of the subjects in which we are most interested, and keeping a sharp eye on our neighbor, steering clear of the rocks against which he has struck, and ever ready to take advantage of any new plan which he may have found profitable?

We need to exert ourselves in order to keep well abreast of the procession in the onward quick march in which our calling is advancing.

There was a time when "book farming," as it is called, was at a discount, and perhaps justly so, when an axe, a chain and a plow constituted the principal part of a farmer's outfit, and muscular exertion, even though coupled with comparative gnorance, was what made the mare go. But now, with our completely altered circumstances, must come altered management : theory and practice must go hand in hand, in order to attain paying results

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for a distance, the end breaks off and gives rise to an *iceberg*. Some are 300 feet high, and sometimes only a seventh is above the water. There is always only a seventh is above the water. from four to seven times as much below as above the water. It can readily be unders ood how ice in all these forms will exert a powerful influence in disintegrating the rocks in mountainous districts. Frost, as it occurs in the small cracks of rocks along the banks of a river, and on mountains, denudates by bursting off pieces of rock.

Sometimes the fragments may be very large. In such cracks you usually observe small stones, which serve as wedges, by sinking deeper as the frost causes the opening to expand, until they finally force the portion off. This accounts for much of the debris (bolus) seen at the base of mountains or along a river bank. LIFE.—All animals that burrow form passages

into which air and water get and act upon material near, so as to disintegrate it. Worms are a great help in this work. It has

been estimated by able investigators, that they increase the surface soil at the rate of one-fifth of an inch yearly by the deposition of their castings, or, expressed in other words, add sixteen tons of finely

expressed in other words, and sixteen tons of finely divided rock to an acre each year. The holes they form also afford passages for rain and air; in fact, they are "nature's ploughmen." Plants, while living, act upon rocks with acids formed in the minute root cells. This has been shown by growing plants for a time upon mapple shown by growing plants for a time upon marble, when its surface becomes quite corroded and eaten into from the solvent action of the liquids in these cells. When dead, the plant in decaying gives rise to carbonic acid, itself a great solvent, and as decay of the roots proceeds, leaves passages suitable for the access of air and water. From the facts referred to on *denudation*, the reader will readily see what an enormous change must be constantly going on where these agencies are at work, and that their combined action tends to the preparation of ma total important in the formation of soil.

If ever there was a time when good stock should be at a premium it is now. When it takes the skilful feeder all his time to make ends meet with the best of stock, what is going to become of the poor feeder and the scrub?

Now is the time to cull over our herds and flocks, even though we cannot afford to replace them at present, and gradually, as our means will permit, let us fill our stables with the very best. It is surely better to keep three or four cows yielding profit on the feed consumed than to keep seven or eight, which, if we had to buy our feed, would run us in debt at the end of the year.

By economy. I do not wish to be understood to mean the niggardly saving of every dollar, but rather the judicious expenditure of not only money, but time and labor as well. For instance, it is peor economy to work away with an old worn-out plow-share, in order to save the price of a new one. Nor is it economy sow poor, dirty seed, because it is cheap, or to sow it on poorly-prepared land, in order to save a little time and labor.

It is poor economy to starve young and growing stock to save the feed. In fact, when we properly understand the term economy in its application to every detail of our business, we have the key to the whole situation —economical cultivation, economical harvesting, economical feeding to economical stock.

Duck culture, among other branches of the poultry industry, is receiving a good deal of interest on some American farms near New York and other large cities. One duck farmer reports that he has hatched about 10,000 ducklings during the season just past. They are marketed at about ten weeks old, when they weigh from six to seven pounds. The mortality of large flocks is very light when properly cared for, seldom reaching two per cent 1, 1894

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THE FARMER'S ADVOCATE.

Mr. E. D. Tilson's New Barns.

One of our staff recently had the pleasure of inspecting the fine buildings and commodious stables erected by Mr. E. D. Tilson, of Tilsonburg. Mr. Tilson has spent a vast amount of thought and labor in planning the arrangement of the stables, having written to all the experimental stations both in Canada and the United States for plans and suggestions. In addition to this, he has personally inspected all the most conveniently arranged stables in Ontario. The results of all this labor is seen in the almost perfect internal arrangement of the buildings. In the erection of these stables no expense was spared; the walls are built entirely of white brick, while the ceiling is ceiled with plained and matched lumber, the walls plastered and then covered with a coat of hard finish.

THE DIMENSIONS

of the main building are 125 by 60 feet. There is a wing attached, the walls of which are of the same height as those of the main building, of which it really forms a part. The size of this building is 46 by 48 feet. The stalls in this stable are three feet nine inches in width, the feed passages eight feet wide, and the passage behind the cows of sufficent width to allow of a team and sleigh being driven through for the purpose of cleaning out. As will be seen by the diagram, there is a gutter seven inchesdeepand fourteen inches wide behind the cows and protected on the side next the cows by a piece of timber to which one end of the plank flooring is attached. The Portland cement floor is of the best quality, being made from first-class material, and laid by city tradesmen in the winter season while pavements could not be worked upon. First-class labor was thus obtained at a low rate. The stalls are formed by plank set up at an angle and held in place at the lower end by the two-inch flooring, the upper end fits into a groove in the upright post. The manger is on a level with the floor and is six inches high on the inside, sixteen inches wide at the bottom and slants out into the feed passage ten inches, at a height above the floor of thirty inches; thus leaving an opening fifteen inches wide through which to pass the feed. In fig. 1 our artist failed to show the manger as it really appears. The feed board extending from the bottom of the manger to the passage should have been extended much higher than is shown in cut.

The system of fastening in use is the common cattle chain which slides upon an iron bar extending from the floor to the ceiling.

THE WATER SUPPLY

is collected from several springs at the upper end of the farm, and brought 150 rods in cast iron pipes to the barns, stables, yards, etc., having sufficient is to be completed before winter, is put in order gravitation head to raise it sixteen feet at the barn and house. The supply is always sufficient to keep a four-inch pipe running full. There are three lines We would strongly advise any person who is of two-inch pipe running the length of the stable, just back of the manger, partly underneath it, with fresh water continually running through the pipes from the west to the east end of the barn. There is an upright overflow at the east end to each one cheaper material, and which will be of lasting beneof the pipes, just sufficient height to keep the water fit to him. boxes within one and a-half inches of

he pipes leading from t

same time preventing all draughts. Mr. Tilson appears to have effectually solved this question, and we must admit that the system of ventilation is the most complete which we have seen anywhere. The escape of foul air is provided for by chimneys in the wall, which open behind the cattle. The fresh air is drawn through an underground pipe which warms the air to the temperature of the earth in winter, and cools it to the same point in summer. The air is forced into the pipes by means of upright blowers, similar to those on steamers, with the exception that there is a vane on top which keeps the opening always against the wind. The air is brought into the stable by means of ventilation pipes which occupy the triangular space made by boarding up the space below the extension of the manger into the passageway. Air holes are cut into this pipe at regular intervals, and the fresh air is thus delivered where it is wanted-at the head of the animal.

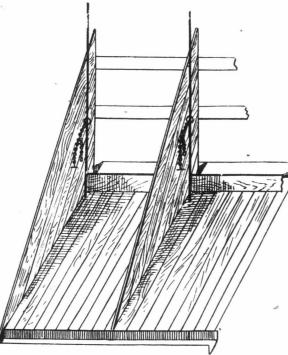


FIG. 1.-REAR VIEW OF STALL.

The milk from the herd is all made into butter in a perfect model of a creamery. This butter is sold at high prices to private customers.

Mr. Tilson believes he has the best lighthed, best ventilated, best watered, most comfortable for man and beast, the purest air, with the least bad odor, of any stable in Canada. Cool in summer and warm in winter, and when the ground ventilation, which

thinking of putting up new stables to pay a visit to those of Mr. Tilson, and though he may not be able to invest the same amount of money, still he will fish up ideas which can be worked out in

Notes from a Few Agents and Readers of the Farmer's Advocate.

GEO. L. HASLAM, Springfield, P. E. I.:-"Your paper ismuch appreciated, especially on the cheese and dairy questions.

WM. C. WILSON, East Oro, Ont .:- "The watch which you sent me for getting subscribers for the ADVOCATE has given entire satisfaction, being an excellent time-keeper. I will try to get you some more subscribers.

ERNEST WELCH, Burgessville, Ont.:-"I received the ring all right, and presented it to my sister, who says the more she wears it the better she likes it."

JACOB STOLTS, New Dundee, Ont .:- "I received the premium watch, and it has given entire satisfaction in every way. I will always endeavor to further the interests of your paper by sending a few names now and then.

D. KYTE, Richwood, Ont.:-"I have been a reader of the FARMER'S ADVOCATE, London, for a good number of years, and heartily recommend it to the farming community as an able journal fearless and open in its advocacy of all questions. I have received many valuable suggestions on many important questions, and wish it increasing success. I hope my friends will give it hearty support.

S. HARRIS, Verschoyle, Ont.:-"I have been a subscriber to the FARMER'S ADVOCATE for the past five years, and have found it the best agricultural journal that I can read. Since it comes twice a month it is far more valuable than ever before."

GEN. ALLAN, North Nation Mills, Ont.:-" Please accept thanks for your premium, "Canada's Colum-bian Victors," which I have received. It is a very handsome premium, and more than I could reasonably expect

R. P. MCGINNIS, Iberville, P. Q.:-""Canada's Columbian Victors' came to hand. I have to thank you for same, as well as for another copy of Canada's Pride.' The Ayrshires are splendid.

WM. STEWART, JR., Menie, Ont.:-" I find the ADVOCATE a first-class advertising medium, and a welcome friend at the Seymore Stock Farm, old and young looking for its arrival."

JOHN MCKERLIE & SON, Fergus :- "We consider the ADVOCATE the best agricultural journal in America.

Mission City Fair.

BY T. WADDLE

The first annual exhibition of the Mission City (B. C.) Fair Association was held on October 4th, in the new Cannery building, which is one of the largest and most substantial frame buildings erected in the Province, being 300 feet long by 100 wide, and two stories high, it being admirably adapted for the purpose, as the entire exhibit was made under one roof. In the north end of this building were exhibited the fruits, vegetables, roots, domestic manufactures, etc., while in the section next to the river were shown a fine display of live stock. The President of the Association. Mr. J. R. Wren, an able and energetic officer, occupied the chair of honor at the head of the banquet table, having as his guests the judges and a number of naving as ins guests the judges and a number of visitors from a distance, among those from Van-couver being J. W. Horn, ex-M. P. P.; J. C. Mc-Lagan, A. H. B. MacGowan, F. S. Timberlake, L. W. Paisley, R. Hickinbotham, V. S., and Harry Arkell. The inner man having been refreshed, and before the work of judging had been entered upon, President Wren deliver-

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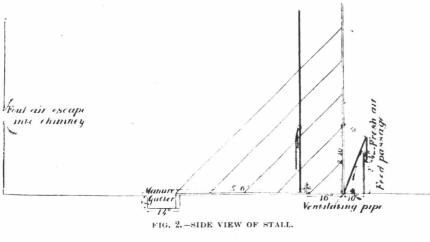
main to the iron buckets are one and one-quarter inches, entering the buck-ets at the bottom. They run at an angle of 45 degrees to within four inches of the box and then plumb up into the box, so that when the cows drink. the water will immediately rise, keeping the boxes full. It is so arranged that by turning a stop-cock at the lower end of the mains or by opening three stop-cocks, one in each main, it will drain all the boxes and pipes in the stable in one minute, and by closing the stop-cock all the boxes in the stable, 82 in number will fell in few minutes and as number, will fill in five minutes, and as this is done each day a constant supply of fresh water is obtained. Some of the boxes are covered with lids hung with hinges, so that the cows will lift the lids and drink when they desire.

The lid falls back in its place as soon as the cow removes her head. The water, coming as it does so far underground, is almost as warm in winter as in summer, a very important feature

The varieties of corn which Mr. Tilson prefers are the Learning and Mammoth Southern Sweet.

for a row of stalls front the passage, each just wide enough to admit a calf. There is also a very con-

pure air, both in winter and summer, and at the thought a change of air is necessary.



Too Much Ventilation.

The Poultry Keeper reminds us of a truth that we nad almost forgotten concerning the poultry-house. When a fowl-house is of medium size the greatest trouble in this country is to keep it warm enough during the winter season. Ventilators mean draughts, and draughts mean roup and no we had almost forgotten concerning the poultry-Some resort to putting in a glass front to obtain heat, and so long as the sun strikes directly On the opposite side of the passage are the calf upon it the end is obtained, but within one hour pens. Here there is no crowding at feeding time, after sunset the temperature will have reached too after sunset the temperature will have reached too near that of outdoors. A medium amount of win-

ed an opening address, which was followed by remarks from some of the other gentlemen present. The live stock, though limited, was

considered very good; the principal exhibitors in this department were G. Gibbard, Geo. Wharton, J. T. Wil-band, J. R. Wren, Geo. Monroe and A. York, who exhibited imported pedigreed stock or grades raised at home from such, some of them being very fine. These gentlemen were all prize takers.

On the tables along the east, north and west sides of the building, were displayed the fruits, roots and vegetables, as well as the product of the dairy and domestic manufactures. In these classes the exhibits were really excellent, and were in every respect

equal to the best seen this year any-where. A portion of this exhibit, shown as a "col-lection," consisting of potatoes, peas, beans, cab-bage, etc., was raised since the flood in the Fraser Valley, some of which were really prodigious in size. Fruits were also exhibited which had been raised in Mission City, the products of trees not vet four years old, and of excellent flavor. The displays made by Messrs. Wren, Gibbard, Murray, York, McRae, Henry, and others in this class, were extremely creditable, and we wish particularly to call attention to the exhibit of preserved fruits, which were simply put up in pure water; the flavor and a perfectly natural color had been retained, no acid or saccharine matter being used.

Take it all in all, the first show of the Mission City enough to admit a calf. There is also a very convenient sliding door which is operated from the dow doubled in the winter season is all right, but dow't allow the heat that has been accumulating all day to pass out through ventilators in the roof. University of the hardest problems for the farmer to solve has been the providing of an ample supply of pure air, both in winter and summer, and at the thought a change of air is necessary.

ber the Association will hold an agricultural dinner, at which will be discussed the best interests, farms in general, and fruit growing.

The Horse Bean in Manitoba. Editor FARMER'S ADVOCATE, Winnipeg:

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DEAR SIR, - I have pleasure in replying to your enquiry re the common Scotch or horse bean. It is true that I sowed half an acre of these along side of some English tares (both imported by me) in the spring of 1889, which, you may recollect, was our year of drouth. The tares never appeared, but a half crop of beans made fair growth, commencing to flower at about a foot high. They never got fur-ther, however, as at same time there appeared a small black beetle which, in numbers, literally covered each plant and made quick havoc with leaves and blossom, even the stalk showing deep traces of this destructive pest.

The following season I imported eight cents" worth, at a cost of two shillings for postage, and this small parcel of beans I dibbled in, in an experi-mental garden plot. Eighteen hundred and ninety was a moist spring and the plants started well, coming though one of our light May frosts unbarry coming though one of our light May frosts unharmed. Again, at the period of flowering, my old enemy appeared, but this time I met him with air-slacked lime, when a few heavy dustings with this sent his beetleship elsewhere and enabled me to harvest a couple of pounds of very nice beans. The following season I had a similar experience, but the patch fell to the lot of Jack Frost sometime in September, who claimed them for his own.

From my somewhat limited experience of horse bean growing in Manitoba, I arrived at the con-clusion that, experimentally, and in small and care-fully tended patches, this bean can be successfully raised, but, in face of the raids of the beetle pest the price of lime, and the high winds which sweep prairie throughout the season, not to mention the early autumn frosts, I very much doubt if a field crop of this most valuable legume could be raised with any certainty, much less to pay, in this part of the world. This, however, is not a matter of wonder, as even in Scotland the bean is by no means a reliable crop, and frequently proves a failure there

I do not know if the common Scotch or horse bean is the variety referred to by your correspondent, W. D. J., Middlesex, in your issue of 20th of September, as he speaks of "English horse beans." Perhaps he has been trying a variety called the "tick bean," which is shorter in the straw, more prolific than the Scotch, and is more largely grown in England than the northern variety. If so, W. D. J. might better his "luck" and reap a more fortunate experience with the Scotch variety, unless, as he indicates, he is totally averse to further "experimental" work. Yours faithfully,

C. H. MACWATT, Glenlea, Man.

Sod for Peas.

Many and important are the advantages of fall plowing land for spring crops, but there are excep-tions. In sections where peas are extensively grown, sod is the preferred land on which to grow them. The advantages of fall plowing do not ap-pear in such a case. Spring plowed sod almost in-variably gives better crops of peas than from any other method of cultivation. It also leaves the ground cleaner, and in better condition upon which to sow fall wheat than any other method, except summer-fallowing. The time lost by leaving the sod land till spring will not be serious, as there is nothing better on which to start the teams than a nice piece of sod, which may be commenced before "black land" is ready to be worked.

As matters stand, competition was so small in sections judged from appearance that cutside the Channel Islands section there is no longer any reasonable basis for prize-money distribution other

than for performance at the pail. The Shorthorn cows were nine in number, and as they all entered for the butter tests, they may be taken as good representative performers. Their milk yields ran from 38 lbs. 2 ozs. to 62 lbs. 2 ozs. daily, with an average of 55 lbs. 4 ozs., and of butter, from 1 lb. 1 oz. to 2 lbs 10 ozs., averaging 1 lb. 15 ozs. The first prize of a silver medal and £5 was awarded to C. Birdsley's Florence, who gave in one day 2 lbs. 10 ozs. butter from 54 lbs. 6 ozs. of milk. The second prize of a bronze medal and £2 was won by Sweet Briar. same owner, giving 2 lbs. 6 ozs. butter, from 45 lbs. 2 ozs. milk. The general quality of Shorthorn butter was poor, soft and pale, with two or three good samples.

The Jerseys were more numerous than any others, and most of the entries were of a very high order of merit as regards their dairy points, as may be gathered from the fact that 20 of the 26 entries forming the cow class were also entered in the butter test, a most unusual occurrence, and a very great proportion of those were of a very good, serviceable type of the breed. The 20 tested cows gave of milk in one day from 18 lbs. 8 ozs. to 41 lbs. 13 ozs. averaging 29 lbs. 7 ozs., and of butter from 5³/₄ ozs. to 2 lbs. 2³/₄ ozs. averaging 1 lb. 8 ozs. daily. The general color and quality was rich and good, with a few pale and poor samples. The first prize of gold medal and £3 was awarded to Mrs. E. R Blackwell's Flandrine II., whose yield was 2 lbs. 2³/₄ ozs. butter from 35 lbs. 13 ozs. milk in one day. The second prize of silver medal and £3 was awarded to Miss Standish's Beauty, giving 1 lb. 11 ozs. butter from 41 lbs. 10 ozs. milk in one day.

The Guernsey exhibit was very meagre, com-prising two cows, two bulls and 10 heifers. The two cows gave good accounts of themselves in the tests.

In other breeds there were four Red Poles, two Ayrshires and two crossbreds.

The goat exhibit compared favorably with the cattle in point of numbers, there being 68, against 25 last year.

CHEESE.

The cheese exhibit was a credit to British dairy farmers. The old Cheshire variety seems to be giving way to the more modern Cheddar and to the insinuating Stilton. Cheddar is the king of cheese, not in ubiquity only, but in character and in gigantic dimensions. Says the English Live Stock Journal :-

The great Cheddar (Canadian), which was one of the wonders of the World's Fair at Chicago last year, was made from one week's milk of more than 22,000 cows, and weighed ten tons This cheese ultimately found its way, as most great things seem to do, to this country, and in the hands of Mr. Jubal Webb, of Kensington, its fame has been greatly extended. The great wrought-iron vat and the massive lorry by whose means it was moved about, were in the Dairy Show, to be seen of everybody, and also a considerable remnant of the great cheese itself, being placed on exhibition by Mr. Jubal Webb. It is now more than two years since the cheese was made, and it has kept good in an ex-traordinary manner, considering that it passed through those months of tropical heat in the Chicago Fair, and ran the gauntlet of Arctic cold in a Canadian winter. The cheese is sharp to the tongue, but it is sound and of good quality, while in its youth the flavor must have been of a high order of merit."

There was a good show of bacon and hams, Skim-milk bread, too, had a place among the ex-hibits, and attracted a good deal of attention. Egg packages, honey, roots, dairy implements, vehicles, utensils, etc. were well shown and numerous, Buttermaking competitions formed an extensive feature of the show, and throughout the week a constant succession of trials took place, the entries being numerous and the proceedings watched by large crowds of spectators.

POULTRY.

The table poultry section, as far as practical ourposes are concerned, was quite an outstanding teature. It was, in fact, a great increase upon any thing that has previously been displayed in England, which is due largely to liberal prizes and low entry fees. The various kinds of Dorkings, Games, Langshans, Plymouth Rocks, Malays and Wyandottes, were the principal pure-bred varieties com-peting. The sections for cross-breds were also well filled. Ducks and geese were well shown on the tables. The live poultry exhibit was large, and with very few exceptions, choice.

A New Dairy School.

Eastern Ontario is to have the benefit of a dairy school, to be opened at Kingston on Thursday, Dec. 13th, at 9 o'clock a.m. It is a department of the School of Agriculture and Mining, which has received from the Government of Ontario an annual grant of \$1,000 a year for two years, and \$1,500 last year, for the equipment of a new dairy building, now being completed. The School is under an incorporated Board of Governors, who have raised a considerable sum in subscriptions for its support. The City of Kingston has also given them property valued at \$20,000.

The school will be under the direction of Prof. Jas. W. Robertson, Dairy Commissioner, and the Dominion Government are providing the resident superintendent and instructor, Mr. J. A. Ruddick, who has become well and favorably known as a writer on dairy topics to the readers of the FARM-ER'S ADVOCATE, being chosen for that important position. Mr. Ruddick's experimental work in connection with the Perth Dairy Station, his management of the Woodstock Winter Creamery, and of the Manitoba Travelling Dairy last summer, his success in the manufacture of Canada's big cheese, which created such a sensation at the World's Fair, and his gifts as a clear, plain, practical and fairminded speaker, are among the points that might be mentioned as indicating his worthiness for the duty now devolving upon him. He is, moreover, an Oxford County boy, and a graduate from the ranks of everyday working dairymen. He will have the assistance of other competent teachers. The governors will expect farmers to deliver to the school daily 4,000 lbs. of milk, for which would be paid \$1.25 per hundredweight. The skimmed milk will be sold back at 15 cents per hundredweight. The sale of the products will be ample to pay the expenses of the school. A certain standard to govern the unality of the milk will be fixed and a birther price quality of the milk will be fixed, and a higher price will be paid for a better quality.

There will be a series of eight regular courses, specially for cheesemakers and buttermakers, who have had the experience of working for one season at one of these branches. Each course will include practical instruction for two weeks, in either cheesemaking and the testing of milk or butter making and the testing of milk. Any student may take both courses. In addition to the practical demon-strations and illustrations in the school, a course of locations milk of a state of the school o lectures will be given on the following subjects:-Dairy Farming, Utilization of By-products of the Dairy, Cheesemaking, Buttermaking, Milk Testing, and the Chemistry and Botany of the Farm. Each lecture will be followed by a discussion for one hour on the subject of the lecture or on the practical work of the day. The First Course will begin Thursday, December 13th The Second Course will begin Thursday, December 27th.

DAIRY.

The London Dairy Show.

nineteenth annual Dairy Show of the The British Dairy Farmers' Association was opened in the Royal Agricultural Hall, London, England, on Oct. 9, lasting till the 12th inst. It was well up among the largest exhibitions of its kind ever held. The cows competing in the milking trials and but-ter tests were more numerous than before. The entries of butter showed a large increase, as did also those of cheese and the table poultry. The following statement is given of entries in the competitive classes, compared with the previous three years :--

			ENTR	IES.			
				1891.	1892.	1893.	1894.
Cattle				81	215	129	112
Milking and but					62	86	87
Goats				61	49	25	68
	••			2,152	2,125	2.169	2,498
Poultry	•••	•••	•••	2,300	2,263	2,236	2,211
Pigeons	•••	•••	• •	227	200	218	272
British cheese	••			40	80	17	47
Bacon and hams	1000	••	••	286	337	317	468
Butter	•••	••		200 54	55	.56	64
Cream				04	00	19	26
Egg packages			Sec.		45	6343	57
Skim milk bread			•••	57	45	76	84
Honey				125		2:0	
Puttermaking co	ontest	ts		42	74		295
lew inventions	1.0			19	26	24	29
Vehicles for conv	evin	g mill	k	28	25	19	26
.' 10ts				14	28	22	21
To	4.91			5.486	5,657	5,732	0.365

5,657 5,732 .. 5,486 Total

There were sections for cattle judged by ap The latter is yearly growing, while the forme-talling off, which fact indicates that the up-to-d. is show test must be one of practical utilit.

The Cheddar classes were the great feature of the show, each entry consisting of 20 cheeses, and these, with half a hundred entries, aggregated nearly 40 tons.

The Stiltons were represented by only five en-tries. Cheshires had less than a dozen entries, but most of them were of very high merit. Double Gloucester, Wilts and Derby were represented by small exhibits. Forty entries of cream cheese made an important class. British soft cheese with out extra cream made a small showing. The soft cheese industry in England does not seem to be making much headway; and, indeed, before it can do so, the taste of the British people in cheese must undergo some considerable modification. The moral for Canada is still obvious.

BUTTER.

The butter display was well worthy of commendation, due largely, no doubt, to the efforts of the British Dairy Farmers' Association. There was this year a marked increase in exhibits of an average high quality. If the current energy in dairy circles continues, it will not be long till poor butter is not made in England. In the class for butter made in the ordinary way and under ordinary popular conditions, there were 75 entries, all of which were excellent. For fresh butter made from sour cream, the entries also numbered 75, which, too, were of excellent quality. In the class for slightly salted butter there were 93 entries, which proves that English tastes are calling for the delicately flavored butter. In similar butter from sour cream there were 150 entries. For similar butter again, but from scalded cream, the entries fell to 30, which shows that scalding cream is not a very prevalent custom. There were two classes for fancy or ornamental designs in butter, in which were several superb exhibits beautifully executed, and artifially colored, to represent, for instance, different olored dahlias, a practice which we Canadians are

it likely to follow.

The Third Course will begin Thursday, January 10th.

The Fourth Course will begin Thursday, January 24th.

The Fifth Course will begin Thursday, February

The Sixth Course will begin Thursday, February 21st.

The Seventh Course will begin Thursday, March 7th.

The Eighth Course will begin Thursday, March 21st.

For admission to the school, the applicant must be at least 16 years of age, and be a member of the Dairymen's Association of Eastern Ontario or of the Ontario Creameries Association. Anyone may become a member of one of these Associations by enclosing an annual fee of \$1.00 to the Bursar, Mr. Wm. Mason, School of Mining and Agriculture, Kingston, Ont.

It is to be hoped that the dairymen and would-be dairymen of Eastern Ontario will rally round this new seat of instruction, and that it will prove as beneficial to that section of the Province as does the Guelph Dairy School for the great dairy country lying further west.

ER 1, 1894

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NOVEMBER 1, 1894

THE FARMER'S ADVOCATE.

Temperature in Milk Production.

To embark in winter dairying without making provision for the proper housing of the cows will prove an unprofitable piece of business. Some are mak ing a mistake at this very point. Disappointment naturally follows. As a usual thing the blame is laid either at the door of the cow or winter dairying itself. The real responsibility is with the man. Possibly he may not have the best cow for the business, but the chances are that he has not so adjusted her conditions that she can render him profitable service in yielding a liberal supply of milk for buttermaking in the winter season. If the untempered blast and snow beat through the cracks of the old "lean to" against her, and a zero atmosphere chills her blood, the "chop stuff" that is poured into her manger, instead of re-appearing in the milk pail, will be used up in keeping herself warm. Nature is not to be cheated. Like the Arkansas jury that Hoard used to tell about, the cow will "find for herself" first, and if the man will-persist in running his head against that inexorable fact so much the worse for the head. Though seemingly obvious, many are slow to realize how important the question of temperature in the stable really is.

In the Scottish Farmer, Mr. Alexander Pottie, M. R. C. V. S., contributed conclusive evidence on this point. A dairy farmer by degrees became unable to pay his rent, and the landlord was about to force him out. The cows, though getting plenty of food, were thin and giving very little milk. Mr. Pottie was called in to settle the dispute if possible, and undertook in one month to effect a marked improvement, the tenant acting under his instruc-tions. What was the result? In the time specified the cows had begun to appear in fair condition and were giving nearly double the quantity of milk. The stable prior to that had been extremely cold, and this condition of things was aggravated by the feeding of too watery food. Mr. Pottie gave very little extra feed, but took particular pains to bring the temperature of the byre up to 63 degrees, and keep it as near that as possible. In another instance a dairy farmer found that his cows were not milking as they should, though healthy and in fair condition. Mr. Pottie, on investigating, concluded that the temperature of the byre was too low. It was brought up to 63 and kept thereabouts for ten days instead of at about 52 degrees. What was the result? Instead of a loss of £2 per week, there was a net profit realized of £2 19s. 4d., and the following week £34s. The profits continued to vary from £2 18s. 2d. to £35s. 9d. thereafter from the herd weekly. The farmer had attempted by heavier feeding to correct his losses, but failed, and it was not till the air space of the stable was reduced (there being an open loft above the cows), and the place made comfortable, that the desired result was secured. This was done at practically no expenditure to speak of. No stove or other artificial heating was introduced,

the air of the stable being warmed by the heat of the cows' bodies once the great loft was closed. What is true in the Old Country is just as true in Canada; in fact more care must be taken here because of the severe frosty weather. Let no one, however, be alarmed that he must necessarily erect a costly bank barn. Not at all. For temporary purposes the old stable can be made warm by care-ful "battening" outside and the use of building out on and made secure by strips per carefull ath. See that there are no draughts from beneath the floors, as is usually the bane of stables hoisted up on posts. And having made the stable warm, see that it is well lighted, for a dark stable is usually a dirty one. Cows should have pure air to breathe also. Filth in the stable will find its way into the milk and butter.

FARMERS' INSTITUTES.

A Superintendent of Institutes Appointed for the Province of Ontario.

For some time past it has been clear to those who have given thought to the subject that the time has arrived when the work of arranging and providing for the successful carrying out of the annual series of Ontario Farmers' Institutes, and directing the system generally throughout the Province, should be in the hands of a superintendent, whose time and energies would be mainly given to the work. This course has been pursued with great success in several of the States to the South and West. The increasing interest manifested by the farmers of Ontario in availing themselves of this additional means of gaining information, and hearing experienced and successful men discuss questions with which they are familiar, has encouraged the Provincial Minister of Agriculture to extend the work, and to place it more directly in the hands of a capable and efficient officer. The present is an important juncture in Canadian farming. Never was knowledge more needed; but beyond this function the Institute has an inspiring and unifying value as an agency in bringing farmers into closer confidence and sympathy with each other.

The choice of the Minister of Agriculture has fallen upon Mr. F. W. Hodson for this important post. A general awakening in Institute work may be looked for. His success of recent years of developing organizations of breeders is especially a good guarantee for the future. We bespeak for him the hearty co-operation of local institute workers, and predict an era of extended and increasing usefulness in the Institute system under his supervision.

SKETCH OF THE NEW SUPERINTENDENT. BY J. C. SNELL.

The announcement that Mr. F. W. Hodson, of the FARMER'S A DVOCATE, London, Ont., has been appointed to the above position will be received with favor by all who know the man, his antecedents, his fitness for the work and the whole-souled energy which he throws into any task he undertakes. For the information of those who do not know him so well, the follow ing brief sketch of his life and career is presented :

Mr. Hodson was born in 1856, in Whitby Township, Ontario His early education was received at the Public school, the Graded school in the village of Brooklin, and the Whitby Col-legiate Institute, in all of which he distinguished himself by his energy, perseverence and ability. Of a practical turn of mind, he sought useful knowledge by reading the best books he could secure, and by close observation of his surroundings. In the spring of 1880, the late William Weld, Esq., of the FARM-ER'S ADVOCATE, whosh custom was to visit successful farmers and stock raisers, to study their methods and to learn the secret of their progress, discovered in Mr. Hodson the promise of a valuable associate, and chose him as assistant editor. On receiving this appointment, he left the farm, and for two years resided in London, throwing all his energy into the work. In 1882, finding the confinement incident to editorial work injurious to his health, he resigned and resumed farming. In April 1887, he returned to the ADVOCATE, where he has since re-mained, giving his best energies to the extension of its influ-

ence. As an organizer. Mr. Hodson has done his best work. Ir

QUESTIONS AND ANSWERS.

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[In order to make this department as useful as possible, parties enclosing stamped envelopes will receive answers by mail, in cases where early replies appear to us advisable; all enquiries, when of general interest, will be published in next succeeding issue, if received at this office in sufficient time. Enquirers must in all cases attach their name and address in full, though not necessarily for publication.]

Veterinary. ECZEMA.

THOS. IREDALE, JR., Gartmore : - "I have a horse eight years old ; came in two weeks ago with a chill, went off his feed, had a stoppage in his water for two days and a night. After I had got his kidneys to act freely, pimples came out all over the lower part of his body and neck-the pimples were about the size of a five cent piece-and broke and ran enough to form scabs, then dried up. His appetite has since then improved. Three days ago his sheath swelled up, and since then his belly has swollen up to the front legs; when pressed with the fingers, the impression remains for a short time. His eyelids also were so swollen that he could hardly see for twenty-four hours; they ran a little matter and then the swelling went away." [Your horse's ailment is a form of erzema, and is

probably due to faulty assimilation of the nutritive properties of the food, or to an inactive condition of the excretory glands of the skin, causing retention of effete material in the system. Feed the ani-mal exclusively on bran mashes for twenty-four hours, and then give the following in the form of a ball :- Barbadoes aloes, six drachms ; calomel, one drachm; ground ginger, two drachms; syrup or soap, a sufficient quantity. Continue the bran mash diet until the physic has ceased to operate. After this, give morning and evening in food, for one week : Hyposulphite of soda, three drachms; nitrate of potass. and gentian (pulverized), of each two drachms. If the skin remains sore, apply to it twice daily : Acetate of lead, one ounce ; tinct. of opium, four ounces; add water to make one quart.

W. A. DUNBAR, V. S., Winnipeg.] UNTHRIFTY CONDITION OF MARE AND SPINAL

AFFECTION.

H. DELF, Indian Ford, Man:--"(1) Could you inform me what is the matter with my mare. When is eight years old, and in poor condition. standing in the stable all night her legs stock up, her eyes are dull, skin loose, and she is troubled with a few pin-worms. I cannot get her fat. I feed her flax seed and boiled oats at night, and two gallons of oats every day, and lots of good hay. She works every day and has a good appetite. (2) I also have another horse ten years old, and in good condition. He works every day, but towards night gets played out; he seems to have no use in his hind part; when we back him up or turn him short he falls down. He sweats across the hind part, at night. He eats well, he gets three gallons of oats a day, and lots of good hay.

[(1) There are several causes that would be productive of the condition you have mentioned, but, from your description of the case, I am unable to decide as to which of them is operating. I would, however, advise you to treat as follows: —Feed on small rations of bran mash for twenty-four hours, and then give in bolus: Barbadoes aloes, five drachms; areca nut, three drachms; fluid extract of male-fern, four drachms; santonin, twenty-five grains. Forty-eight hours after giving the above, commence and give morning and evening in food. for ten days : Sulphate of iron, nitrate of potassium, and gentian, of each one drachm. (2) The horse is suffering from an affection of the spine, and being up in years, he probably will never recover. You may try the following treatment: Give morning and evening in food, for two weeks: nux vomica, pulv., bicarbonate of potassium, and gentian, of each one drachm. Rest is absolutely necessary. W. A. DUNBAR, V. S.]

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Western Ontario Dairymen's Association.

The work of cheese factory visitation and milk inspection, so efficiently carried on by Mr. T. B. Millar, under the direction of the above Association, will be continued next season, commencing on April 1st, the Executive having recently re-engaged his services. During January, February and March, Mr. Millar will have charge of the milk testing department at the Ontario Agricultural Col-lege Dairy School, Guelph.

The Association also retains the services of Mr. J. W. Wheaton, as secretary. The wonderfully increased membership, the great success of the annual and local conventions, and general helpful-ness of the Association to the dairy industry, speak volumes for his energy and executive ability.

At the annual convention to be held in Stratford on January 15, 16 and 17, the following are expected to give addresses : Hon. John Dryden, Min-ister of Agriculture ; Hon. Thos. Ballantyne ; Mr. John Gould, Ohio ; Mr. C. H. Everett, president of the Wisconsin Daimened According to the Difference the Wisconsin Dairymen's Association; Mr. F. M. Davis, Potsdam, N. Y.: Prof. Robertson, Dominion Dairy Commissioner; Prof. Fletcher, Experimental Farm, Ottawa; Prof. Dean, and Messrs. A. T. Bell and Wm. Rennie, Ontario Agricultural College, Guelph, and other practical dairymen.

When a dairyman has mastered the two points of cleanliness and temperature in the dairy, he is a long way on the road to success in producing dairy products of a uniformly high quality, and quality is what money is searching for.

1857, he returned to the ADVOCATE, where he has since remained, giving his best energies to the extension of its influence. As an organizer, Mr. Hodson has done his best work. In 1889, aided by prominent breeders, he founded the Dominion Sheep Breeders' Association, and the next year the Dominion Swine Breeders' Association. He has since been joint secretary and executive head for these two bodies, which have done so much in forwarding the interests of the breeders, in the wider diffusion of information, and in promoting the spread of improved stock. Carefully conducted sheep and swine records of the best standard have been established for registering the pedigrees of pure-bred animals. Valuable reports of the proceedings of these Associations, containing papers by practical breeders and feeders of stock, have been freely circulated and published in the agricultural papers. Delegates from these associations have been accorded a place on the committees of the leading Fair Boards of the Domine, to watch the interests of exhibitors and breeders. A list of competent judges have been nominated each year, from which Fair Boards have made their selections with good results. A very successful winter fair has been held in connection with the Provincial Fat Stock Show, and liberal prizes paid by the Breeders' Associations. This show has been instrumental in showing what splendid results can be attained by good breeding and liberal feeding combined. In 1891-2 he acted as associate judge of Ontario farms entered in competition for medals given by the Agricultural and Arts Association. In as would have discourge and and uncted a less determined and less hopeful soul. His ancestors were prominent breeders of live stock, and at an early age his inclinations in that direction manifested themselves. He is best known as a breeder and importer of Cotswold sheep and as importer of Shropshires. Though attending school part of the time from 1873 to 1876, yet, by working evening a majority of the prizes for which he competed, and

BONE SPAVIN.

F. N., Wawanesa, Man .: - "I have a mare that about a year ago became very lame in nigh hind leg, and subsequently a swelling came on the inside of hock joint on that leg. It is now quite large, and the mare very lame. I have shown it to local vets., who pronounce it bone spavin, and, under their direction, I have fired it once and blistered it repeatedly, but without any apparant benefit. Can you recommend anything likely to prove effectual?"

[I would advise you to repeat the firing, and see that the application is properly performed. Super-ficial firing is of very little value in most cases of bone spavin, and to be of benefit it should be done deeply with the budding or pointed iron. The parts, after firing, should be kept open by the judicious application of blisters for at least five weeks. A boolute rest is essential. W. A. DUNBAR, V. S.]

Miscellaneous.

RAPE CULTURE AND SHEEP FEEDING.

WM. HUNTER, Underwood :- "1st. Will rape sown this fall stand the winter, and grow up for pasture next summer. I sowed a field on the 3rd of August, but it did not come up until September, on account of dry weather? 2nd. How is the best way to feed sheep to fatten them through the winter? 3rd. What is the best ration for winter feeding without turnips? 4th. Should sheep run out in a yard when fattening, or will they do as well in a more house?" well in a roomy house?"

[1st. The rape plant is a biennial, producing seed the second year when allowed to make full growth the first year, but when so young as in the above-

mentioned field, we would not recommend depend-ing upon its producing pasture next spring. Very ing upon its producing pasture next spring. Very much will depend upon the severity of the winter and exposure of the field.

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2nd. It is very important that fattening sheep, like all other stock, have comfortable quarters. A roomy frame building set on the ground, having a tight roof and dry floor, is all that is necessary, pro-vided it is not draughty. It should be cleaned out once weekly, and be comfortably bedded. It should be so ventilated as to keep the sheep without sweating. Sheep unequal in size and vigor should not occupy the same pen. A good ration consists in as much well-cured clover fed morning and evening as will be eaten up cleanly. A forkful of bright pea straw makes a nice noon-picking, as it gives variety, an important feature in a sheep's bill-of-fare. Either turnips, mangles or ensilage are important adjuncts, fed twice daily at the rate of one bushel for fifteen sheep. Turnips preferred, cut in strips. The grain part of the ration may consist in one-half oats, one-quarter oil cake, one-quarter wheat or peas, fed twice daily, half a pint each at first, in-creased to one pint as the finishing period ap-proaches. Fresh water and salt should always be within easy reach of the sheep.

3rd. When ensilage or mangles cannot be ob-tained, the above ration answers well with an in-crease of oil cake to keep the bowels laxative. 4th. A well-ventilated, roomy house is all that is

necessary for rapid fattening.]

SCALE OF POINTS FOR AYRSHIRE BULL. T. C .: - " Please publish a scale of points required

in a perfect Ayrshire bull, and oblige The points desirable in the female are generally in the male, but must, of course, be attended with that masculine character which is inseparable from a strong and vigorous constitution; even a certain degree of coarseness is admissible ; but then it must be so exclusively of masculine description as never to be discovered in a female of his get. The following is a scale of points adopted by the American Ayrshire Breeders' Association :--

(1) The head of the bull may be shorter than that of the cow, but the frontal bone should be broad, and muzzle good size, throat nearly free from hanging folds, eyes full. The horns should have an upward turn, with sufficient size at the base to indicate strength of constitution......

(2) Neck of medium length, somewhat arched, and large in those muscles which indicate power and strength.

(3) Fore-quarters-Shouldersclose to the body, without any hollow space behind ; chest broad, brisket deep and well developed, but not too large

4) Back short and straight; spine sufficiently defined, but not in the same degree as in the cow ; ribs well sprung, and body deep in the flanks...

(5) Hind-quarters—Long, broad and straight: hip bones well apart, pelvis long, broad and straight; tail set on a level with the back; thighs 10 deep and broad...

(6) Scrotum large, with well-developed teats in front. (7) Legs short in proportion to size, joints

10

10

firm. Hind legs well apart, and not too close in (8) Skin yellow, soft, elastic, and of medium

thickness.

(9) Color, red of any shade, brown or white, or a mixture of these, each color being distinctly April, and gives you more eggs to market while they are a better price than they will be in May and June.

2nd. A larger per cent. of the eggs will hatch, and a hen will cover more to better advantage.

3rd. The weather is warmer and the chickens can run out-doors almost immediately and will not

need so much care as if confined. 4th. If the hen is cooped, the chickens, being small, can have their freedom and will not damage the newly made gardens where early chickens, if 5th. The chickens, if well cared for until after the

rain is cut, will be easily fattened while running hrough the fields.

6th. If you have Leghorns they can be made to lay in December, when eggs are scarce and high, almost as soon as early hatched chickens.

[NOTE.-In the ADVOCATE for Sept. 15th, under the heading, "Early Chick—Winter Egg," by Mrs. Tilson, to which our readers would do well again to refer in considering the points advanced by Mr.

Harding.—Editor.] Supply the hens with some dry earth under the window, for they like to have the sun shine on them while they take their dust bath. If you have more than twenty hens they will be better divided into two lots. During the short days they should be fed as soon as they are off the roosts.

In speaking of ducks, he says neither is it necessary for every farmer to winter ducks. He can buy a setting from his neighbor and put them under a hen and have a nice lot of ducks to market in the fall without much trouble, as they are easily raised after the first week or two. One thing you should not neglect to do, though, is to sprinkle the

eggs with water once or twice a week. B. H. Garner, Maxville, Ont., in writing of the advantages of poultry raising on the farm, has the following :- The poultry raising department on the farm should be tended in a more business-like way, for we must all admit that there is plenty of room for improvement. Poultry and their produce can be turned into cash quicker than any other farm stock, but to realize profitable sums we must raise large flocks and get them on the market at the right time.

In regard to marketing, he says :- Late in the fall most of the farmers crowd their summer flocks on the market, thus bring the price so low as not to cover the expense of production. This is where many farmers get "roped in." Mrs. L. H. Hogarth, of Exeter, speaks of the

luxury and convenience to the farmer's household of having on hand an abundant supply of both eggs and poultry of undoubted freshness at all seasons of the year as a consideration of great importance, and also an item of more than a little interest from the standpoint of economy, by reducing in a large degree the butcher's account. In regard to the house, there should be a covered annex into which the hens may run and be fed in fine weather during winter, as the more exercise the better. believes the consensus of opinion to be in favor of Plymouth Rocks. Use pure-bred cocks upon your present flock and you will soon have your flock well bred enough for all practical purposes. Do not attempt to keep too many. Experience has proved that small flocks are more profitable accordingly than over-large ones. When hatching early chicks do not give the hen too many eggs to cover, else you may lose the whole setting, especially if each egg gets its turn at getting chilled. Sell off all the young cockerels from the early broods that are gcockerels not wanted at home. About the first and on through July, before the markets are glutted, will be a good all the youn time for this, as a much higher price will be realized than if they were kept till everybody else is ready. During the winter I would say briefly : comply as nearly as possible with summer conditions. Mrs. Hogarth is the only essayist who emphasizes the keeping of an accurate account of all receipts and expenditures; and advises that a cheap poultry book should be kept in a convenient place with a pencil attached with a string, and a daily record of eggs gathered, sales made and other matters of interest made daily. Henry Reeves, Highland Creek, gives as his opinion that among the various enterprises which come under the head of farming there is none that will give more profit for the money invested and the time spent than poultry raising, if properly managed. He considers that the chief essential to make poultry raising profitable is cleanliness, for with cleanliness the greatest enemy of poultry, viz., vermin, is successfully dealt with. In marketing every care should be taken in dressing the poultry, as a well-dressed pair of chickens will often bring ten or fifteen cents a pair more than those poorly dressed, and the same can be said of turkeys and The attractive appearance of the fowle geese. geese. The attractive appearance of the lowing count for a great deal in selling poultry. He says : I would not advise any farmer to go into the breed-ing of the "fancy" for profit. I have tried it and found that "all is not gold that glitters." Neither is it well to have a lot of fowls commonly known as "dunghills." What is required is a good every-day kind of fowl, one that has no occasion to be ashamed of its looks, and can boast of some pure blood in its veins. Poultry requires new blood, the same as any other farm stock, and too close breeding is sure to cause degeneration. He is an admirer of the Wyandottes, for the reason that they lay good-sized eggs and a large number. They make early broilers of good size, besides looking attractive when dressed. The Plymouth Rock, he considers, run them very close as a general purpose fowl.

Mr. R. E. White, Perth, Ont., says it has now become quite evident that the farmers of Ontario have not fully availed themselves of the profits to be obtained from poultry raising. It seems that the great majority of farmers have just kept towls because they furnish excellent food supplies for home consumption, and have not studied the subject from a business standpoint, and therefore are not accustomed to look upon it as a profitable branch of agriculture. He advises the use of tar paper as a lining for the poultry house, for the reason that it is very obnoxious to vermin. As spring advances, the best bred and the strongest spring auvances, the best ored and the strongest should be picked out and placed by themselves in as roomy a place as possible, for the breeding stock requires plenty of exercise. A young cock should be mated with old hens, and a two-year-old cock with pullets. About a week after being mated, the eggs may be saved for setting, and if possible set two or three hens together. Feed, water and the dust bath should be within easy reach of the setting hen at all times. Chickens should be pushed from the start, in order to have the pullets laying when the old hens are moulting, and the cockerels ready for the early market. The poultry raiser who has his chickens hatched early and pushes them from the start has another advantage, for he can then watch the market and thus get them off his hands when choice poultry is scarce and high priced. Never allow your fowls to in-breed from year to year, or they will decrease in size and vigor, but purchase a pure-bred cock from time to time, and by breeding from him, the size, usefulness and appearance of your flock will be greatly improved. Keep only one breed unless you are prepared to give the necessary attention and have sufficient room for other breeds. Save all the droppings, as they are very valuable and will go a long way towards paying for the feed.

GARDEN AND ORCHARD.

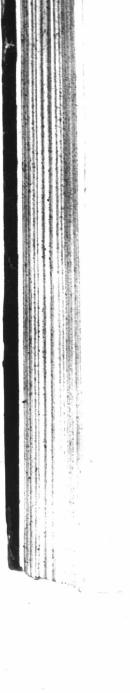
Experimental Fruit Stations.

Owing to the variation of soil and climate in the different parts of the Province of Ontario, it has been thought well to establish experimental fruit stations at different points in order to ascertain so far as possible the varieties of fruit most suitable

for all parts of the Province. The magnificent display of Ontario fruits at the World's Fair gave to the world a truer idea of our capabilities along the lines of fruit production than was ever known before. It also gave to us a knowledge that we have a possible important revenue from a source which has hitherto been neglected, and which, if cultivated and fostered, will prove a salvation to our standing among the prosperous fruit countries of the world

The Fruit Growers' Association of the Provincehave had the importance and need of such stations in view for several years. Three years ago a stand-ing committee was appointed, whose duty it was to push the experiment station scheme to a successful completion. By their enterprising management, together with the Columbian results, the Provincial Government has been so impressed with the importance of instituting such stations that at the present time four stations have been located and put in operation-one at Leamington, devoted to peaches and strawberries, under the control of W. W. Hillborn; one at Winona, devoted to grapes, under the control of Mr. M. Pettit; one at Craig-hurst, devoted to apples, under the control of Mr. G. C. Caston, and one at Trenton, devoted to apples and pears, under the control of Mr. W. H. Demp-These stations are under the control of the Fruit Growers' Association of Ontario, and of the Ontario Agricultural College. The Board of Con-trol is made up of Jas. Mills, M. A., Guelph, Presi-dent; Prof. H. T. Hutt. B. S. A., Guelph, Presi-dent; Prof. H. T. Hutt. B. S. A., Guelph, Official Visitor for the Dept. of Agriculture; T. Wolverton, M. A., Grimsby, Secretary; A. M. Smith, St. Catharines, and A. H. Pettit, Grimsby. Mr. Wolverton, together with Prof. Hutt. who Fruit Growers' Association of Ontario, and of the Mr. Wolverton, together with Prof. Hutt, who have the executive part of this matter in hand, have not only made a careful visit to each of these stations to see that the work is going on properly, but they have also visited several points where it has been thought that stations ought to be estab-lished. One of these localities is the Beaver Valley, situated in Grey County, leading from Georgian Bay southward, where fruit of nearly every kind grows to perfection almost as well as in the famous Niagara peninsular. It has proved itself peculiarly adapted to plum culture. The farm of Mr. John Mitchell, of Clarksburg, seems to be very favorably adapted to the growth of plums, and Mr. Mitchell seems well fitted to carry on experimental work with that fruit. It is decided by these gentle-men to recommend to the Board of Control that the fifth station be established in this valley, and be devoted to experiments in the cultivation of plums. It is the intention to establish five other stations in other parts of Ontario as soon as proper places for their location and suitable men for their conduct can be found. Prepared forms are used by the experimenters, from which, when properly filled out, as a result of careful work and observation throughout the season, a pretty thorough knowledge is given of the comparative values and modes of treatment of the different fruits tested. These reports are to be sent in to the Board of Control by each experimenter before the 15th November, the results of which will be made public.

NOVEMBER 1, 1894



(10) Average live weight at maturity, about	
(11) General appearance indicating style and	10
movement	19
(12) Escutcheon, large and fine development.	5
Perfection. 10	00

POULTRY.

Gleanings from Poultry Essays.

Some time ago a large number of contributions were received in connection with one of our prize essay competitions. Lack of space prevented the publication of any except the three placed first, but we give our readers the benefit of selections from some of the others.

Mr. W. E. Harding, of Amherst, Nova Scotia. mentions several things which will interfere with successful poultry raising on the farm :

1st. A dog, if he is anything of a thief, and most dogs are. He will manage to get all the meat scraps and bones to pick, which are very essential to the well-being of the hens. He will often frighten them and thus keep them wild.

2nd. On a small farm pigs and poultry may pull against one another, and the dinner scraps are apt to find their way into the pig swill. The pigs also will get what skim milk the calves don't want. The chickens get little or no milk. Maybe a few chickens will get drowned in the swill barrel.

3rd. See that your cat is trained' not to kill

chickens. 4th. Never let a hen with young chickens go but let a sleeping place, but let where she pleases to find a sleeping place, but let her go where you please to have her.

5th. There is no profit in a surplus of roosters.

For farmers where poultry is not a specialty, my experience has been that in our climate the best time to have chickens come out is about the first of 311100:

It leaves more hens to lay in March and

NOVEMBER 1, 1894

THE FARMER'S ADVOCATE.



A DARK TRANSACTION.

BY MARIANNE KENT.

A DAKK IKANSACTION. BY MARIANNE KENT. If I had described myself when I first started in life, it would simply have been as John Blount, commercial traveller. I was employed by a firm of merchants of very high standing, who only did business with large houses. My negotiations took me to all parts of the United Kingdom, and I enjoyed the life, which was full of change and activity. At least I enjoyed it in my early bachelor days, but while I was still quite young-not more than five-and-twenty-I fell in love and married ; and then I found that my roving existence was certainly a drawba k to domestic happiness. My wife, Mary, was a bright little creature, always ready to make the best of things, but even she would declare pathetically that she might as well have married a sailor as a landsman who was so celdom at home! Still, as I said, she was one to put a bright face on things, and she and my sister made their home together. It was in the second year after my marriage, when I had been away on my travels for some weeks, that I heard from my bister that a fever had broken out in the neighborhood of our home, and that Mary was down withit. Kitty wrote hope-fully, saying it was a mild attack, and she trusted by the time I was home her patient would be quite convalescent. I had unbounded faith in Ki'ty, so that I accepted her cheerful view of things. But, a few evenings later, after a long, tiring day, I returned to the hotel where I was then staying, and found a telegram awaiting me. My heart stood still as I saw the ominous yellow envelope, for I knew my sister would not have sent for me without urgent need. The message was to say that, although Kitty still hoped for the best, a serious change hat although Kitty still hoped for the best, a serious change hat although Kitty still hoped for the best, a serious change hat although Kitty still hoped for the best, a serious change hat although Kitty still hoped for the best, a serious change hat although Kitty still hoped for the best,

the next train?

the next train?" "Six five in the morning, sir. Nothing more to-night." "Nothing more to-night!" I almost shouted. "There must be! At any rate, there is the evening express from the junction; I have been by it scores of times!" "Very likely, sir; but that's a through train; it don't touch here-never stops till it reaches the junction." The man's quiet tone carried conviction with it. I was silent for a moment, and then asked wh n the express left the junction.

"Nine fifteen," was the answer. "Nine fifteen," was the answer. "How far is the junction from this by road ; could I do it

in time?" "Out of the question, sir. It would take one who knew the road the best part of three hours to drive." I looked away to my left, where the green hill-side rose up steep and clear against the evening sky. It was one of the most mountainous quarters of England, and the tunnel that pierced the hill was a triumph of engineering skill, even in hese days when science sticks at nothing. Pointing to the brick archway, I said, musingly:-"And yet, once through the tunnel, how close at hand the iunction station seems."

junction station seems.

junction station seems." "That's true enough, sir; the other side the tunnel it is not half a mile down the line." 'What length is it?" "The tunnel, sir? Close upon three miles, and straight as down?"

a dart

There was another pause, then I said, slowly : – "Nothing more goes down the line until the express has passed

Nothing more, sir."

"Anything more, str. "Anything on the up line?" was my next inquiry. "No, sir, not for some hours, except, maybe, some trucks of goods, but I have had no notice of them yet."

Slugs in all directions : I could fancy, too, the hundred other creeping things that were about. As the match died out, a noise among the stones near the wall caused me hastily to strike another, just in time to see a large rat whisk into its hole. A miner, a platelayer—in fact, anyone whose avocations took them underground—would have langhed to scorn these childish fears ; but the situation was so new to me, ard also I must confess that I am naturaly of a nervous, imaginative turn of mind. Still, I was vexed with myself for my cowardly feelings, and started on my walk again, trying not to think of these gloomy surroundings, but drew a picture of my home, wondering how Mary was, if she was well enough to be told of my coming, and was looking out for me. Then I dwelt upon the satisfaction with which I should enter the express, at the junction, feeling that the troubles of the evening had not been in vain. After a while, when these thoughts were somewhat exhausted, and I felt my mind returning to the horrors of the present moment, I tried to look at it all from a different point of view, telling myself that it was an adventure which I should live to pride myself upon. Then I recalled to mind things I had read of subterranean passages, and naturally stories of the catacombs presented themselves to me, and I though thow the early Christians had guided themselves through those dim corridors by means of a line or string ; the fantastic ngtion came to me that I was in a like predicament, and the line I was to follow was the steel rail at my feet. For a while this thought gave me courage, making me realize how straight the way was, and that I had only to go on and on until the goal was reached.
I walked for, perhaps, twenty minutes or half an hour, sometimes passing a small grating for ventilation ; but they were so choked by weeds and rubbish that they gave little light and less, thich made me, as I went along, continually put out my hand as if to ward off a blow, and was this feeling, at lesst, which made m

which had haunted me at the outset rushed upon me with redoubled force.

which had natured me at the outset rushed upon me with re-doubled force. I had faced the possibility of the station-master having been mistaken, and of a train passing through the tunnel while I was still there, but I told myself I had only to stand close in to the wall, until the train had gone on its way. Now, how-ever, I felt, with a sinking horror at my heart, that there was little room to spare. Again and again I tested it, standing with my foot well planted on the rail and my arm outstretched until my fingers touched the bricks. There was a fascination in it much as in the case of a tinid swimner who cannot bear to think he is out of depth and must keep putting down his foot to try for the bottom, knowing all the while he is only rendering himself more nervous. During the next ten minutes I know I worked myself into a perfect agony of mind, imagin-ing the very worst that could happen. Suppose that the up and the down trains should cross in the tunnel, what chance should I then have? The mere thought was appalling ! Ing the very worst that could happen. Suppose that the up and the down trains should cross in the tunnel, what chance should I then have? The mere thought was appalling! Retreat was impossible, for I must have come more than half way by this time, and turning back would only be going to meet the express. But surely in the thickness of the wall there must be here and there recesses? I was sure I had seen one, some little time back, when I had struck a light. This was a gleam of hope. Out came the matches once more, but my hands were so shaky that I had scarcely opened the box when it slipped from my fingers and its precious contents were scattered on the ground. This was a new trouble. I was down upon my knees at once, groping about to find them. It was a hopeless task in the dark, and, after wasting much time, I was forced to light the first one I found to look for the others, and, when that died out. I had only four in my hand, and had to leave the rest and go on my way, for the time was getting short and my great desire was to find a recess which should afford me shelter in case of need. But, although I grudgingly lit one match after another, and walked for some distance with my hands rubbing against the wall, I could tind nothing of the kind. At length, I don't know what time it was, or how far I had we had I some hore me a hore large way off a dim event off

At length, I don't know what time it was, or how far I had walked, I saw before me, a long, long way off, a dim speeck of light. At first I thought, with a sudden rush of glagness, that it was daylight, and that the end of the tunnel was in sight; it was daylight, and that the end of the tunnel was in sight; then I remembered that it was now evening and the sun had long set, so that it must be a lamp; and it was alamp. I began to see it plainly, for it was coming nearer and nearer, and I knew that it was an approaching train. I stood still and looked at it, and it was at that instant that the whole ground beneath me seemed to be shaken. The rail upon which one of my feet was resting thrilled as if with an electric shock, sending a strange vibration through me, while a sudden rush of wind swept down the tunnel, and I knew that the express was upon me' me

me! I shall never forget the feeling that took possession of me : it seemed as if, into that one moment, the experiences of years were crowded-recollections of my childhood-tender thoughts of my wife-dreams of the future, in which I had meant to do so much, all thronged in, thick and fast upon me. Could this be death ? I gave a wild, despairing cry for help. I prayed aloud that God would not let me die. I had lost all presence of mind ; no thought of standing back against the wall came to me. I rushed madly forward in a frenzy of despair. The sound of my voice, as it echoed through that dismal place, was drowned in an instant by the sharp, discordant scream of the express. On I dashed, right in front of the goods train ; the vellow light of the engine shone full upon me ; death was at hand. It seemed that nothing short of a miracle could save me. Only a few yards from the engine, and as I struggled blind-ly on, a strong hand seized me with a grasp of iron, and I was dragged on one side. Even in my bewilderment I knew that I was not against the wall, but in one of those very recesses I had searched for in vain. I sank upon the ground, only half conscious, yet I saw the indistinct blurr of light as the train swept by. I am not given to swooning, so that, after the first moment. I shall never forget the feeling that took possession of me swept by

Here was a predicament! Asked to pledge my word for I knew not what! To be in the dark in more sense than one; for I could not even see my mysterious deliverer's face, to judge what manner of a man he was. And yet how could I refuse his request! At last I said slowly: "If what you ask is honest and above-board, you have my word that it shall be done, no matter what it may cost me." He gave a short laugh. "You are cautious," he said, "but you are right. No, there is nothing dishonest about my request; it will wrong no one, though it may cause you some p. rsonal inconvenienc."

inconvenienc

That is enough," I said, hastily, ashmed of the half-hearted "But that won't do," he put in, quickly; "what I want must be done here and now!" I was bewildered, as well I might be, and remained silent while he wont on the silent whether a silent

must be done here and now !" I was bewildered, as well I might be, and remained silent while he went on : "There is no need to say much about myself : but this you must know. I am in great trouble. I am accused of that which makes me amenable to the law. I am innocent, but I cannot prove my innocence, and my only chance of safety is in flight. That is the reason of my being here. I am hiding from my pursuers." The poor creature paused, with a deep drawn sigh, as if he at least had not found his life worth the struggle. I was greatly shocked by his story, and warmly expressed my sympathy ; then, on his telling me he had been for two days and nights in the tunnel, with scarcely a bit of food, I remem-bered a package of sandwiches that had been provided for my journey, and offered them to him. It made me shudder to hear the ravenous manner in which they were consumed. When this was done there was another silence, broken by his saying, with evident hesitation, that the one hope he had was in disguising himself in some way, and thus eluding those who were watching for him. He concluded with— There was such an odd mixture of tragedy and comedy in the whole thing that for a moment I hardly knew how to answer him. The poor fellow must have taken my silence for anything but consent, for he said, bitterly : "You object! I felt you would, and it is my only chance!" "On the contrary," I returned, "I am perfectly willing to do as you wish-indeed, how could I do otherwise when I have given you my word ? I was only fearing that you built too much upon this exchange. Remember, it is no disguise1—the dress of one man is much like that of another." "That is true enough, as a general rule," was the answer, "but not in this case. I was last seen in a costume not common in these parts. A coarse, tweed shooting-dress, short coat, knee breeches, and rough worsted stockings—so that an every-day suit is all I want." After that there was nothing more to be said, and the change was effected without

day suit is all I want." After that there was nothing more to be said, and the change was effected without more ado. It seemed to me that my invisible companion had the advantage over me as far as seeing went, for whereas I was sensible of nothing but touch and sound, his hands invariably met and aided mine whenever they were at fault. He con-fessed to this, saying that he had been so long in the dark that his eyes were growing accustomed to it.

his eyes were growing accustomed to it. I never felt anything like the coarseness of those stocking as I drow them on. The shoes, too, were of the clumsiest make; they were large for me, which perhaps accounted for their extreme heaviness. I was a bit of a dandy; always priding myself upon my spick and span get-up. No doubt this made me critical, but certainly the tweed of which the clothes were made was the roughest thing of its kind I had ever handled. I got into them, however, without any comment, only remarking, when my toilet was finished, that I could find no pocket.

only remarking, when my toilet was finished, that I could find no pocket. My companion gave another of those short laughs. "No," he said, "that suit was made for use, not comfort!" From his tone and manner of expressing himself, I had taken him to be a man fairly educated, and when he had decia ed that he did not require my money. I naturally fancied he was not in want of funds; but the style of his clothes made me think differently, and I decided that he should have my watch—the most valuable thing I had about me It had no par-ticular associations, and a few pounds would get me another. He seemed pleased, almost ouched, by the proposal, and also by my suggesting that the money in my pockets should be divided between us. It was not a large sum, but half of it would take me to my journey's end, I knew. He seemed full of resource, for when I was wondering what to do with my loose change, in my pocketless costume, he spread out my handkerchief, and putting my money and the small things from my pockets into it, knotted it securely up and thrust it into my breast. Then, as we stood facing each other, he took my hand in farewell. I proposed our going on together, but this he would not hear of. "No" ho and with his grim laugh "the sconer I and that

"No," he said, with his grim laugh, "the sooner I and that suit of clothes part company, the better !"

So we wished each other God-speed, and turned on our different ways-he going back through the tunn el, and I keeping

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"Nothing more, sir."
 "Anything on the up line?" was my next inquiry.
 "No, sir, not for some hours, except, maybe, some trucks of goods, but I have had no notice of them yet."
 The station-master made this last answer he looked at me curiously, no doubt woadering what the object of all these questions could be; but he certainly had no notion of what some saves as he did, and left me there alone upon the platform.
 I was young and impetuous, and a sudden wild determining the had taken possession of me. In my intense anxiety to get back to my sick wife, the delay of so many hours seemed unendurable, and my whole desire was to catch the express at the junction; but how was that to be accomplished? One way alone presented itself to me, and that was through the tunnel. At another time I skould have put the notion from me as a mad impossibility, but now I clung to it as a last resource, reasoning my self out of all my fears. Where was the danger, since nothing was to come up or down the line for hours? A good level road, too, of little more than three miles, and a full hour and a half to do it in. And what would the darkness matter? There was no fear of missing the way; nothing to be done but to walk briskly forward. Yes, it could be, and I was resolved that it should be done.
 T gave myself no more time for reflection. I walked to the fund of the platform and stepped down upon the line, not very arking the kind at the station; as it was. I was fearful each moment that my intentions would be knowched on I knew, and, for this reason, I was glad to leave daylight behind me and to know that I was unseen.
 I walked on, at a smart pace, for fully ten minutes, trying was ebbing fast. Then I paused for breath. Up?! how foul the arkness and this, but feeling painfully conscious that my courage was ebbing fast. Then I paused for breath. Up?! how foul the arkness and to how hat gone through the arise, and a struck ony it as simple and ukney,

to be there, and in return asked min its name. "That does not signify," was the answer; "you can think of me as a friend." "That I shall," I returned, gratefully; "for God knows you have been a friend in need to me!" "Ah!" he said, musingly, "your life must be very sweet, for you seemed loath enough to part with it!" I admitted the truth of this -indeed, I had felt it more than once during the last hour. I had been one of those who, in fits of depression, are wont to say that life is not worth living -that we shall be well out of it, and the rest; yet, when it seemed really slipping from my grasp, I had clung to it with a tenacity which su prised myself. And now, with the future once more before me, in which so much seemed possible. I was filled with gratitude to God and to my unknown friend, by whose means I had been saved. There was a short silence: then I asked, rather doubtfully, if there were not some way in which I could prove my gratitude. "You speak as if you were sincere." my strange companion said, in his gruff, downright way: "so I will tell you frankly that you can do me a good turn if you have a mind to. I don't want your money, understand : but I want you to do me a favor." "What is it?" I asked, eagerly: "believe me, if it is in my

favor." "What is it ?" I a-ked, eagerly: "believe me, if it is in my power it shall be done !"

"I would rather you passed your word before I explain more," he said coolly. "Say my request shall be granted. I take it you are not a man to break your promise."

on. The experience of the last few hours had made a great impression on me, and, although I felt awed and somewhat shaken, my heart was light with the gladness of one who re-joices in a reprieve. The express that I had been so anxious to catch had long since gone on its way; still, in my present hopeful frame of mind, that did not trouble me. I felt a convic-tion that Mary was mending, that I should find her better, and comforted by this belief, I walked briskly on ; at least, as briskly as my clumsy shoes would allow me ; but even in spite of this hindrance, it was not long before I reached the end of the tunnel. The moonlight streaming down upon the rails was a pleasant sight, and showed me, some time before I reached it, that my goal was at hand. When I left the last shadow behind me, and stood out under the clear sky, I drew a sigh of intense thankfulness, drinking in the sweet fresh air.

air. I walked down the country road, thinking that I would rest for a few hours at the station hotel and be ready for the first train in the morning. But my adventures were not yet over. As Iglanced at my clothes, thinking how unlike myself I looked and felt, something on the sleeve of my coat attracted my attention; it must be tar, which I or the former wearer of the clothes must have rubbed off in the tunnel. But, no. I looked again-my eyes seemed riveted to it-it was unmistakable. There, on the coarse grey material of the coat, was a large broad-arrow.

10. I how a want in your of the coarse grey material of the coat, was a large broad-arrow. In an instant the whole truth had flashed upon me. No need to examine those worsted stockings and heavy shoes - no need to take of the coat and find upon the collar the name of one of Her Majesty's prisons, and the poor convict's number. As my eyes rested on the broad-arrow I understood it all. At first I was very indignant at the position I was in. I felt that a trick had been practised upon me, and I naturally resented it. I sat down by the road side and tried to think. The cool air blew in my face and refreshed me. I hat no hat; the convict-I was beginning to think of him by that name-had given me none, saying hehad lost his cap in the tunnel. After a while, when my anger had somewhat sub-ided. I thought more pitifully of the man whose clothes I wore. Poor wretch, without doubt he had had a hard time of it; what wonder that he had sead than the favor he required would entail personal inconverience on myself, and that was exactly what it did. I looked at the matter from all sides; I saw the dilemma I was in. I twould had son me at once; nothing would persuade them that I was not the convict Indeed, who was likely to believe the improbable story I had to tell I I felt that I could expect few to credit it on my mere word, and I had nothing to prove my identity, for I remembered now that my pocketbook and letters were in my coat; I had never given them at hought when making the exchange of clothes. So, as things were, it might take some days for me to establish my real personality.

FARMER'S ADVOCATE. THE

THE QUIET HOUR.

"Bear Thy Brother's Burden."

Bear Thy Brotner's Burden.
Is thy cruse of comfort wasting ? Rise and share it with another. And through all the years of famine It shall serve thee and thy brother : Love Divine will fill thy storehouse, Or thy handful still renew ; Scanty fare for one will often Make a royal feast for two. For the heart grows rich in giving ; All its wealth is living grain ; Seeds, which mildew in the garner, Scattered, fill with gold the plain. Is thy burden hard and heavy ? Do thy steps drag wearily ? Help to bear thy brother's burden ; God will bear both it and thee.

Corn.

The harvest time is the most delightful of all the seasons of the year. It is the time of fulfilled hopes and realized expectations, when the ruddy gleam of

the ripened fruit succeeds the lavish wealth of blossoms, and he who went forth weeping, bearing

precious seed, returns rejoicing, bringing his sheaves with him. . . The earth looks like a table spread for the precious food which God's own hand has

furnished. A hungry world, whose staff of life the corn forms, waits impatiently for the feast; and

Nature, like a handmaid, seems to pause in her

varied operations and to concentrate all her energies

upon the one task of bringing it to perfection. Familiar as it is to us, we greet it season after season with the same fresh enthusiasm. The meanest and homeliest scene is redeemed and hallowed by the presence of cornfields in it. It is holy ground ; God has there made the place of His

feet glorious. The old miracle of the multiplication of the loaves has been there performed anew,

in a more gradual and less startling manner indeed,

but not the less wonderful on that account. In the one case, the processes of germination and develop-

ment were suspended, and in a single moment a mere morsel became a sufficiency for thousands ; in

the other case, the processes of nature were al-

lowed to go on over weeks and months, until the

single grains deposited in the earth became a wav-

ing harvest. The miracle of the loaves was a sudden putting forth of God's bountiful hand from behind the veil of His ordinary providence; the miracle of the harvest is the working of the same

bountiful Hand, only unseen, giving power to the tiny grains to drink the dew and imbibe the sun-

shine, and appropriate the nourishment of the soil during the long bright days of summer. I under-stand the one miracle in the light of the other. That marvellous scene in the wilderness of Caper-

naum comes to me as a revelation of a real but invisible world which is working silently day after

day. It serves to open my eyes to wonders more vast and awful than its own outward phenomena.

Paradoxical as it may seem, it teaches me to look with more reverence upon the ordinary ways of God's providence, and to receive with even more of

deep thankfulness the bread that comes to me by what are called the common processes of Nature,

than if it had been given to medirectly by the hand

without being influenced by the pleasing associa-

No one can gaze upon the golden cornfields

of Jesus, with no toil or trust of my own.

provided for it

"Thou preparest them corn, when Thou hast so

and even when that was done I should still be held responsible

and even when that was done I should still be held responsible for conniving at the prisoner's escape. All things considered, therefore, I resolved not to get into the hands of the police. But this was no easy matter. There was nothing for it but to wa'k. I could not face the publicity of railway travelling or of any other conveyance; indeed, it was impossible for me to buy food for myself. I had many narrow escapes from detection, but by dint of hiding through the day and walking at night, and now and then bribing a small child to buy me something to eat, I contrived to get slowly on my way. It was on the evening of the third day that I reached home. I often thought, somewhat bitterly, of my short cut through the tunnel and all the delay it had caused !

of my short cut through the tunnel and all the delay it had caused! When I actually stood outside the little cottage which I called home, and looked up at the windows, the hope that had buoyed me up for so long deserted me, and I dreaded to enter. At last, however, I opened the gate and walked up the garden. There was a light in the small sitting-room; the curtains were not drawn, and I could see my sister, Kitty, scated at the table. She had evidently been weeping bitterly, and as she raised her face, there was an expression of such hoppless sorrow in her eyes that my heart seemed to stop beating as I looked at her. Mary must be very ill. Perhaps— but no, I could not finish the sentence even in thought. I turned hastily, lifted the latch and went in. "Kitty!" I said, with my hand on the room door; "it's I, Jack ! don't be frightened." She gave a little scream, and, it seemed to me, shrank back from me, as if I had been a ghost ; but the next instant she sprang into my arms with a glad cry of, "Jack, Jack! is it really you?" "Yes, Kitty, who else should it be?" I said, reassuringly.

"Yes, Kitty, who else should it be?" I said, reassuringly. "But tell me—how is she? How is Mary? Let me hear the truth

truth." Kitty looked up brightly: "Mary! oh, she is better, much better, and now that you are here, Jack, she will soon be well!" I drew a breath of intense relief. Then, touching my little sister's pale, tear-stained face, I asked what had so troubled

sister's pale, tear-stained face, I asked what had so troubled her. "Oh! Jack," she whispered, "it was you! I thought you were dead!" She handed me an evening paper, and pointed out a paragraph which stated that a fatal accident had occur-red in the Blank Tunnel. A man named John Blout, a commercial traveller, had been killed; it was believed while attempting to walk through the tunnel to the next junction station. The body had been found, early the previous morn-ing, by some platelayers at work on the line. The deceased was only identified by a letter found upon him. And so, por fellow, he had met his fate in the very death from which he had saved me! In the midst of my own happi-ness my heart grew very sorrowful as I thought of him, my unknown friend, whose face I had never seen!-[The Strand Magazine."

Magazine.

Bishop of Oxford's Riddles.

The following physical puns, called the Bishop Wilberforce's Riddles, have furnished much entertainment :

I have a trunk—my body: has two lids— eyelids: and two caps—knee caps: two musical instruments—drums: two established measures— feet: a great number of articles carpenters can't do without—nails. I have always too good fish—soles: a great number of small shell fish—muscles: two lofty trees-palms. Some fine flowers-tulips : two play ful domestic animals-calves : a great number of small wild animals—hairs : a fine stag—heart : a number of whips without handles—lashes. Some weapons of warfare-arms : a number of weathercocks-veins : an entrance to an hotel-instep. At a political meeting on the verge of a division-eyes and nose: two students-pupils: a number of and nose: two students—pupils: a number of Spanish grandees—tendons: a big wooden box— a chest: two fine buildings—temples: product of camphor-trees—gums: a piece of English money— crown: an article used by artists—palate: one used in racing—skull. What is used in crossing a river —bridge (of nose): pair of blades without handles buildings two file better of alphabet finished with -shoulders: twelfth letter of alphabet finished with bows-elbows : instruments used in church musicorgans.

John Ruskin's Advice to Girls.

yourself a somewhat better creature, and in order to do that, find out first what you are now. Do not think vaguely about it; take a pen and paper and See that no day passes in which you do not make write down as minute a description of yourself as you can, with the date to it. If you dare not do so, find out why you dare not, and get strength of heart enough to look yourself fairly in the face, in mind as well as body. I do not doubt that the mind is less pleasant to look at than the face, and for that very reason it needs more looking at ; so always have two mirrors on your toilet table, and see that with proper care you dress your body and mind before them daily. Write down then frankly what you are, or, at least, what you think of yourself, not dwelling upon those inevitable faults which are of little consequence and which the action of a right life will shake or smooth away, but then you may determine to the best of your intelligence what you are good for, and can be made into. Girls should be like daisies—nice and white, with an edge of red if you look close; making the ground bright wherever they are, knowing simply and quietly that they do it and are meant to do it, and that it would be wrong if they didn't do it.

MINNIE MAY'S DEPARTMENT.

PRIZE ESSAY.

Economy in Dress.

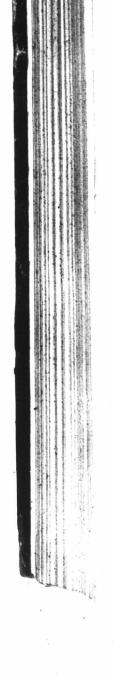
BY MISS WINIFRED HOLLAND, NORQUAY, MAN. BY MISS WINIFRED HOLLAND, NORQUAY, MAN. Economy—does the word need explanation? I fancy not. Most of us have a pretty good idea of its meaning—management : system ; frugality : to make the most of ; these are a few of the dictionary interpretations. My own definition is : to make one dollar accomplish what two would do comfortably. Recommy looks simple enough on paper but

Economy looks simple enough on paper, but when it has to be put into practice it is a different matter, and it is often only after bitter experiences that we learn to see the difference between economy and waste. The particular branch of economy that and *waste*. The particular branch of economy that claims our attention just now is dress. How to dress economically? The first thing, and the most puzzling, is to find out what really is necessary, just how little we can do with, and the decision must of course depend on how and where we are placed in the share we all need comething in the share life. However, we all need something in the shape of : 1st, underclothing ; 2nd, house-wear ; 3rd, outdoor wear; and it is our aim to provide for each set as inexpensively as possible; at the same time we want everything of good quality, and moreover, we wish to present a goodly appearance. I think that ordinary mortals will find four pieces of everything in the first department ample for their needs. Let

verything be of as good quality as possible. Now for house-wear! I remember reading or Now for house-wear! I remember reading or hearing somewhere of a thrifty housewife who always made a point of keeping three dresses going, each named respectively, "Hightum," "Tightum" and "Scrub,"—"Hightum" for "best," "Tightum," "second-best," and "Scrub" was "maid-of-all-work." Nowadays one can wear different blowses with one chirt or "Hightum" "maid-of-all-work." Nowadays one can wear different blouses with one skirt, so "Hightum" and Tightum" can share the same skirt. But "Scrub" must have a separate individuality, and must be must nave a separate multitudinty, and must be composed of washing material, for it has (very often) to witness much scrubbing, stove-blacking, and so forth, and though these sights are unavoidable and necessary, they do not improve the complexion of a dress, and so, while one "scrub" undergoing a cleansing process, it is advisable to provide another to wear in change. A generous apron will of course protect "Scrub" very much, and for the roughest and dirties work (of which there is quite a lot in a farm house) an apron made of coarse sack-cloth-in fact, an ordinary coarse sack cut open-will be found invaluable ; it washes easi'y and stands a great deal of rough usage. When "Scrub's" duty is done for the day it is "Tightum's" turn, and let this be something neat and as dainty turn, and let this be sometning neat and as dainty as possible. A plain skirt and pretty blouse are as economical, and at the same time as pretty, as any-thing, if both are well made. The blouse will almost always repay lining; it gives a far more stylish appearance and is more comfortable, and here let lasts longer than one without lining. And here let me advise all dress economists to make their dresses me advise all dress economists to make their dresses as nicely and neatly finished off as they can. If one is not good at fitting, she can get a professional dressmaker to cut her a pattern lining to measure for about 15c., and it should prove a saving of money, time and labor, for a garment that fits one, wears better and is in every way more satisfactory than one that is badly put together, and uncomfort-able to the wearer. There are so many good materials to choose from that it is very puzzling to make a selection ; but a good serge is always satis-factory and very serviceable. The frugal one takes care to purchase double-width stuff that is reversible, so that when she has worn off the freshness of one side, she takes the dress to pieces, turns it and makes it up again, if possible with a different trimming or vest, and it will look and feel almost like a new dress. For blouses there is an endless variety of pretty fabrics; but let the economist be warymany of them look well enough at first, but after a few weeks wear are practically useless. It is much safer before purchasing any washing material obtain a sample and test it in soap and water. Any-one who has tried native Indian Fussore silk will never regret it; it is very comfortable and cool, "washes like a rag," and the natural shade is be-coming to most faces, —a pretty soft yellow. The Eton and Zouave styles of dress are most useful, and contained a source is a state of the certainly economical, as nearly everyone has found, judging from their universal adoption; but one is apt to tire of such general favorites. I have been told by a pattern dress economist that whenever she has occasion to purchase anything new, she always make a point of choosing something that will harmonize or contrast well with what her wardrobe already contains, taking into consideration the coloring of dress and trimming, hat, gloves, etc.; consequently she always looks well dressed, and never resembles a lost piece of crazy patchwork, like some others I know do. Of course she always keeps to her pet color and harmonizing shades. And this last is an important point in the economical system. She gave another good hint by confiding to me that as soon as her dress shows a give of mercine this assume the sets to work a sign of wearing thin anywhere, she sets to work, takes it to pieces, and remodels it, and so makes it wear more evenly: besides, by this plan people don't get so tired of seeing the same old dress come out again and again. A little variety in dress is pleasing, and need not add to ex-penses. I shall take this opportunity to air a net theory of mine. I have tried to impress pet theory of mine. I have tried to impress some careless dressers to practice it. It is this : We

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Evil Speaking.

1. I will speak no unkind or harsh word of any

one. 2. I will repeat no unkind remarks I hear of any one, and discourage others, as much as possible, from saying unkind things.

3. I will judge my neighbors leniently, remembering that my own faults are probably far greater.

4. I will never say one thing to others, and yet think quite differently: this is hypocrisy. "Deceive not with thy lips.

5. I will make no injurious remarks on the failings of others, remembering these words: "Consider thyself, lest thou also be tempted."

6. I will put the best construction on the motives and actions of all my neighbors.

7. I will act unselfishly, peaceably, and forgiv-ingly, obeying my Master's command: "Love one earth.

has ripened more than six thousand of them. Progress is the law of Nature, and everything else obeys it, but the harvest-field exhibits little or no change. It presents nearly the same picture in this Western clime, and in these modern days, as it did under the glowing skies of the East, in the time of the Patriarchs. We see the same old familiar scene now enacted under our eyes, in every walk we take, which Ruth saw when she gleaned after her kinsman's reapers in one of the quiet valleys of Beth-lehem, or which our blessed Saviour so frequently gazed upon when wandering with His disciples around the shores of Gennesaret. The harvest-fields are the golden links that conect the ages and the zones, and associate together the most distant times and the remotest nations in one common bond and the remotest nations in one common bond of sympathy and dependence. They make of the earth one great home; of the human race, one great family; and of God, the universal Parent, to whom day after day we are encouraged to go with filial faith and love-not in selfishness and isolation, but in a fraternal spirit which embraces the whole world, asking not for ourselves only, but for all our brothers as well-"OUR Father, which art in heaven, give us this day our daily bread." God entered into a new covenant with the human family after the Flood, and consecrated the rainbow, the offspring of the storm which had destroyed the world, as the emblem and attestation of this covenant to all generations. It was a beautiful superstition which maintained that wherever the glittering feet of the rainbow rested, there a hidden treasure would be discovered. This fable contained more of reality than we are apt to suppose. . . Where the magic hues lay, there the dull soil brightened into fruitfulness, and golden harvests, the only true riches in the world, spring up and reward him who seeks wealth, not in idle superstitious wanderings, but by steady, trustful industry in those spots where the feet of the bow of promise touch the

(To be continued.)

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THE FARMER'S ADVOCATE.

should all try to make our personal appearance as pleasing as we possibly can to our friends and the community at large, but especially to the home circle. So many think : "O, any old things will do for home wear." They cannot realize what a depressing effect their appearance may have on those with whom they live. It is false economy to neglect the personal appearance. Dress has a great influence on most people—on both those who wear it and their spectators. Therefore, let us strive to dress economically and tastefully.

5

MINNIE MAY offers a prize of \$5.00 for the best original New Year's story, to appear in the January 15th ADVOCATE, All MSS. to be in our office January 2nd.

UNCLE TOM'S DEPARTMENT

MY DEAR NEPHEWS AND NIECES :-

The bleak November winds leaden the skies, and cold rains have come again ; and the prospect outof-doors is so uninviting that we welcome the evening, when we may gather around the cheerful fire, where all recollections of dreariness vanish beneath its gladdening rays.

One harvest is entirely over-that which supplies our bodily needs-but now the harvest of mental nourishment has just nicely opened, or, perhaps, I should call this the seeding-time, the harvest will come in the future. Put in as large a crop as possible, boys and girls-the yield will come sooner or later, and unlike the product of the other harvest, the demand for this never fluctuates. But one point I wish you to look after, is this : be very careful in selecting your seed, for this is even more important than the preparation of the soil.

Let us take an example of a farmer, who prepares his land with great care, makes a perfect seed-bed, but buys his seed from some unscrupulous person, and when it is grown he finds his fine farm ruined with noxious weeds that it will take him a long time to get rid of. In like manner, let the mental soil be ever so pure, evil seeds dropped into it will hastily disfigure it, so that it is even more necessary to use great care in this case, for very often the bad seeds are very hard to detect.

Of course I do not expect the little ones to settle down to heavy, dry reading-very far from it, for that would rob them of their greatest charm, childishness. In their case their reading is generally chosen by parents or elders, and will, of course. be suitable for them. But for those who are naturally fond of reading, there comes a time (say when they are from fourteen to eighteen years of age) when they think themselves quite capable of making their own choice, and, unfortunately, that choice is too often detective stories, sensational novels, etc. Nor is there much difference between boys and girls in this respect. Another style of book, not quite as injurious, but far from beneficial, is that in which is upheld as a hero one whose strongest traits are dishonesty and ability to get out of the scrapes he has gotten into. Now, do take the advice of one who is deeply interested in all the young readers of the ADVOCATE, whether puzzlers or not, and if you must read books of this sort, let them form but a very small part of your reading, for they are literary trash—nay, even worse, evil weeds—Russian thistles, and, like them, practically incredicable once they have taken toot

certainly the best mannered children I ever met were a little boy and girl from London, England, and it was a pleasure to be in their company.

A sailor once helped one of the Royal Family off a boat and said, "There, my little lady!" The a noav and said, "There, my little lady!" The child said haughtily, "I'm not a little lady, I'm a princess;" whereupon Queen Victoria rebuked her, saying, "Tell the good sailor that you are not a little lady wat but that little lady yet, but that you hope to be one some

day." Perhaps I have become rather "preachy" in have become rather the facing that has this letter, but you understand the feeling that has prompted me, and so will excuse-

UNCLE TOM.

Watford Fair, Sept. 25th and 26th, 1894.

PRIZE WON BY NORA B. DRADER, WATFORD. The Watford Park or Fair Ground is a field of between fifteen and twenty acres, situated northeast of Watford, the palace where the fine arts are exhibited being west and facing the High School, while the ground is north of both the palace and school grounds. The exhibits required the greater part of the first day for preparation, so Tuesday was the best day to see the sports. The races were very interesting, although some of the riders were so cruel as to whip their poor horses with all their might, simply because they could not keep up with the other horses. Once in a while a horse would take a notion to cut across the corner of the course, and this seemed to give great amusement.

The base ball match between the Watford Club and the Ojibway Indian Base Ball Club, of Kettle Point, was very exciting, as both teams were composed of excellent players, but the Watford boys left the Indians in the shade by 36 to 31.

On Wednesday such crowds came from all the country round to see the sights as Watford seldom Sees.

At 1 o'clock the pupils of the educational institutions of the town (High and Public schools) were formed, near Taylor's Hotel, into a line of march. Each pupil was furnished with a badge showing which school he represented. There were about two hundred pupils, besides the Indian Band, the Watford Silver Band, and the Highlanders, with their bag pipes, helped to furnish music during the march from the hotel to the Fair Ground.

At 2 o'clock fourteen little girls of the Public School gave an entertainment in the shape of calis thenics on a platform on the ground. After this the Highlanders danced, and then the prettiest baby was chosen from a group of competitors by a committee of ladies. Next the lightest married woman, who weighed eighty-one pounds, was pre-sented with an eight-dollar clock by T. B. Taylor.

The palace was truly honored by its exhibits. The artificial flower wreaths, some of wax, some of feathers and others of Berlin wool, were beautiful. Other fancy work was plentiful. An odd but pretty ornament was a whisk-holder. It seemed to e made on a foundation of a shawl-strap, the handle, with a row of clothes-pins fastened on and gilded, turned out to hold the whisk. Another idea was a footstool. It was made of a box about one by one and a-half feet, and half a foot deep. The top was padded and covered with red velvet. The Did Not Know in Time.

An Irishman, finding his cash at a low ebb, resolved to adopt "the road" as a professional means of replenishing his exchequer; and having provided himself with a huge horse-pistol, proceeded forthwith to the conventional "lonely common," and lay in wait. The no less conventional "farmer returning from market with a bag of money" of course soon appeared, to whom enter Pat with the regulation highway-man offer of choice, "Your money or your life!" a remark fortified by the simultaneous exhibition of the firearm in the usual way. The farmer, who was a Quaker, essayed to temporize. "I would not have thee stain thy soul with sin, friend ; and didst thou rob me of my gold, it would be theft; and didst thou kill me, it would be murder. But hold! A bargain is no sin, but a commerce between two honest men. I will give thee this bag of gold for the pistol which thou holdest at my ear." The unsuspecting amateur Macheath, yielding perhaps to the Quaker's logic and solicitude for his spiritual welfare, made the exchange, without a moment's hesitation. "Now, friend," cried the wily Ephraim, leveling the weapon, "Give me back my gold, or I'll blow thy brains out !" "Blaze away thin, darlint!" said Pat. "Sure, there's niver a dhrop of powther in it." The result was a sold Quaker.



PRIZE PUZZLE. 1-WHEEL Rim-8 letters, name of well-known paper. Hub-8 letters, to bring to peril. Spokes-words 5 letters. 1 to 9-to humble. 2 to 9 to condescend 3 to 9-good in law. 4 to 9-dramatic compo sition set to music. 5 to 9-part of a ship. 6 to 9-mingled with. 7 to 9 -elegant. 8 to 9-to come in. IRENE M. CRAIG. 2-BEHEADINGS. I simply mean "developing." And if you then behead, You'll find mothen "impelling," Or "transporting" instead. Behead again and I will be "Imputable to" or "due" "Imputable to" or "due," gain, and the "side of a building Ocship" comes to your view. MORLEY SMITHSON.

Answers to Oct. 1st Puzzles.

1-Being somewhat of a naturalist myself, I shall endeavor to tell you about a tripp that we took last May, and howe I became a champion and succeed in diverting a catastrophe alright, if you will have patience with me.

I was stopping with a nice French family at the time; and pleasant society they were, too, especially the three sisters, (harlotte, Florence and Isabel. One day Flo and I planned a lark, which promised to be a grand affair. I donned a black tweed suit with a red roschud for a boquet, a pair of gold eye fässes, etc., while she put on a red jucket trimmed with

rs satisne takes s revereshness turns it ifferent nostlike variety waryt after a is much terial to er. Any silk will nd cool, e is be-w. The eful, and s found t one is ve been henever ew, she hat her nsiderang, hat, oks well of crazy f course nonizing nt in the ood hint ss shows to work, o makes n people me old variety 1 to exto air a impress his : We

ineradicable once they have taken root.

Let such books alone, then, and read instead the d eeds of real heroes, and books in which the principal characters possess noble qualities, and uncon-sciously you will feel yourselves impelled to emulate their examples ennobled, as it were, by the mere reading of their beautiful lives; and, believe me, they will interest you quite as much and leave pleasanter memories than those I first described. Natural history, in a simple form, is very attractive reading to most young people, and it possesses the merit of being instructive as well.

There is another point on which I wish to speak while yet the glowing firelight throws its ruddy tints on your bright faces gathered around it, but really this applies without to here a species of the second states of t really this applies rather to your parents than to you. And here I wonder if many of them bother reading Uncle Tom's letter, when there is so much that is better? I know of some who do; so, thinking there may be others like them, I will venture a few remarks on the too-often-ignored subject of "Small Courtesies." Who has not met those who are so unaccustomed to coustesy, or even common civility at home, that they are positively awkward and ashamed to use it when they are abroad? And perhaps some of you have even felt a touch of this sad malady. Not that I blame you, boys and girls, for it is not really your fault, but that of those who had the care of you in childhood! When parents are polite and courteous to one another and to their children, the habit forms itself unconsciously, and when those children are among strangers, they will not find it difficult to act and speak as ladies and gentlemen should. But when children never hear "Please," or "Thank you," at home, except when strangers are there, it is little wonder they use the words shamefacedly and as if they were to be "handled with care," like their Sunday clothes. In regard to the careful training of children in this respect, I think the English take the lead; and

The prize map of Lambton and the prize perspective drawing were both worthy of praise, any those which did not succeed in getting a prize were

certainly not to be despised. The centre aisle was devoted to eatables and the fruit, pies and cake, and especially the home-made bread and golden butter looked *de-licious*.

In the third aisle, quilts, blankets, mats, etc., were shown, some of which were beautiful. The farmers wives and daughters were well represented in this

line. The poultry and live stock exhibits were very good, although there were not a great many horses

The cattle, swine and sheep were well represented. The candy and lemonade stalls had great attrac-tion for the children, and some others. But the merry-go-round was the attraction, for it gave as much pleasure to the older people watching as the children, riding those wonderful horses, could possibly have.

Altogether, even if there were not the wonder-ful sights of the Toronto or Western Fairs to see, the Watford Fair was a great success, and by night the sightseers felt a very wholesome tiredness, and were glad to reach home, a good supper and a comfortable bed once more.

She Might be Right.

A priest the other day, who was examining a confirmation class in the south of Ireland, asked the question: "What is the sacrament of matrimony?" A little girl at the head of the sacrament of t mony?" A little girl at the head of the class answered : "Tis a state of torment into which answered: "The a state of torment into which souls enter to prepare them for another and betfer world." "Good," said the priest, "the answer for purgatory." "Put her down," says the curate, "Put her down to the foot of the class." "Leave her alone," said the priest, "for anything you or I know to the contrary, she may be perfectly right."

white, a green cashmere dress and a pearl necklace with a silver cross in the middle.

We took a rare horse apiece and had a ridout around the hayfield, then we went down a long, steep hill, past some pine roods and into a cedar swamp, after some everyreen boughs, when a thunder storm came up and we fell into the mud and mire ; there being aden near by, where we could look out, we entered, and as we did not encounter any lions, beir or buffalo, and had no desire to try our fortune in a new port we concluded to wait for fairweather, and here I'll say farerell.

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A Palpable Mistake.

"Beloved brethren," remarked a country minister at the close of his sermon, "among the pennies and two-cent pieces of last Sabbath's collection I, was surprised to find a gold coin of considerable value. As there were no strangers in the congregation, it was evidently put there by mistake. By applying to the treasurer and proving property, the owner can recover his money. Let us unite in prayer.

A lawyer recently went into the surf to bathe, and encountered a huge hark. Their eyes met for an instant, when the shark blushed and swam off.









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Has detachable barrel, with heavy lug securely bolted, and having extra strong screw key fastening with stop, top snap action, rebounding lock, automatic ejector positive in action and perfectly reliable, drop forged steel parts, extra heavy fine steel barrels. 30 inch, carefully choke bored, finely checkered pistol grip stock, rubber butt plate and fancy checkered fore-end. Thoroughly high grade in finish and detail. 12 gauge. Weight, about 61 lbs. For 12 New Subscribers at \$1 each, and \$1 additional cash.

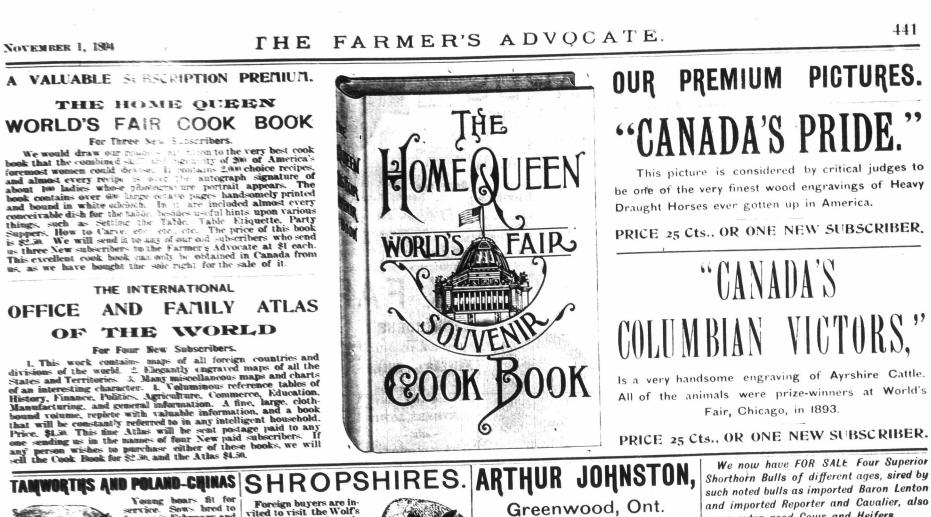
THE "DAVENPORT" RIFLE. MODEL '91. DROP BLOCK.

Has detachable barrel, sliding breech block, rebounding lock, case-hardened drop forged steel parts, fine steel barrels carefully ritled and chambered for standard long and short R. F. annuni-tion; open sights, finely checkered walnut stock and fore-end. Finely inished and extremely accurate, 22 Calibre, 22 inch-zound barrel, 32 Calibre, 24 inch round barrel. Weight, 4; to 4, hs. 46 New Subscribers at \$1 each, and \$2 additional cash.

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w. w. GREPENER'S world-resonance with an and the second state of the barrels and stock with pistol grip, is an analysis of tasks and are all full choked on W. Greener's world-renowned method. This gun is a first-rate performer, is haddown with a top extended rib; the barrels are to be the target strong shooting gun, matted extension rib, fine walnut stock with pistol grip, manufactured by W. W. Greener's Hammerless with laminated steel barrel, and \$30 additional cash. Geener II. Pound 12 gauge.

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of ewes and rams for sale, and we handle none but the best, and can supply select speci-mens for breeding or ex-hibition purposes, and residing in the centre of the Shropshire Sheep Breeding District buyers are assisted in selecting from other flocks. Write for prices or visit us before going else where. Visitors met by appointment at Bas-church Station, G. W. R. Address-J. & T-THONGER, Wolt's Head Farm, Neescliff. Baschurch, Shrewsbury, Eng. Telegram: Thonger Nesscliff.

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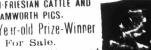
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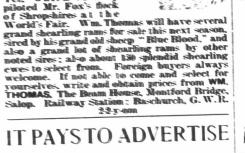
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leading Canadian shows, such asMontreal, To asmontreal, To-ronto and Lon-don, also at the

The most notable in this stud are, the Shire horse Bravo II. 12835, winner of first at Toronto, Montreal and London, and also beating all Clydes at the latter show in the sweepstakes. Hackney, Fireworks No. 3602, winner at Chicago, Toronto and London. Shires and Hackneys always on hand for sale. For further par-ticulars apply to the Proprietor. ROSSEAU, Muskoka. 10-y-om

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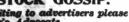
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NOTICES. **AT In** writing to advertisers please mention the Farmer's Advocate.

the Furmer's Advocate. OntarioVeterinary College, Toronto, Canada— This prosperous Veterinary Institution com-menced the session of 1894-95 on Wednesday, Oct. 17th, with a large attendance of students, who come from all parts of this continent, the West Indian Islands, and some from Great Britain. The introductory lecture was delivered by the Principal. Prof. A. Smith, F. R. C. V. S. Students can still enter.

Students can still enter. TOM, DICK AND HARRY. So far as we can learn, Tom has never distin-guished himself, and Harry's name is not a synonym for industry, but among s ock owners Dick's Blood Purifier has brought him into high esteem. For horses and cattle it is in-valuable. It strengthens the digestion, gives a good appetite, and turns a rough coat into a smooth and glossy one. Dick's Blister cures Spavins, Curbe, Ringbones, etc.

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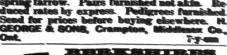
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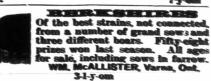
PINE VIEW HERD OF

CHESTER WHITES & BERKSHIRES. At present I have on hand a fine lot of young boars of each hreed, 3 months old. Any one wanting a young boar could not do better than give one of these a trial. Also young pigs fit to ship. In fact, pigs all ages and sizes on hand. Every pig chipped guaranteed as des-cribed or nosale. For further particulars write JAS. H. SHAW, 21-1-y-om

Simcoe, Ont TAMWORTHS & IMPROVED CHESTER WHITE SWINE Our he

herds of s and Ci lected fro worths and Chesters are selected from the choicest herds in Eng-ind a nd U nit ed States ; 80 choice fall pigs of the above for fall service, and 10 choice sows hred for ing farrow. Pairs furnished not akin. Re-red rates by express. Poligrees furnished for prices before buying elsewhere. H it for fall service





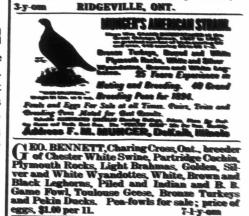
POULTRY FOR SALE. E-OULTERY FOR GALES, Black Javas, oockerel and 3 pallets, pen \$1; three Langshan hens, lot \$3, singly \$1.30. Will sell Buff Cochins, hen, cockerel and pullet, not related, trin, \$2.30. These are not culk; but American standard-bred fowls; must be sold to make room for other stock. Cash with order. First come gets pick. A. J. GEGORGE, Placem 52 Clausers St. Lowler, Cat

21-a-om 52 Clarence St., London, Ont.

SELLING OUT. GRAND STOCK OF PLYMOUTH BOCKS SACRIFICED

On account of other business taking my entire time, I am compelled to sell my entire flock of Pymouth Rocks this month. Choice Large-boned Cockerels and Pullets. Grand Yearling Birds, all of fine shape and markings, at \$1,25 Each. This is a chance of a lifetime. Order early, and get the cream. Send money, stating your wants.

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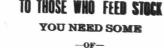
Note change of advertisement, W.C. Shearer, Bright, Ont.

Jas H.Shaw, Simcoe, Ont., writes :-- "Mystock are doing well: pigs never more than the second aredoing well; pigs never were healthier, young ones of the fall litters coming good and strong, growing like weeds these sunny days. Was quite successful at the County show here."

growing like weeds these sunny days. Was quite successful at the County show here." Mr. D. A. Campbell, Mayfair P. O., Appin Station, G. T. R., has been very successful with his Lincoln sheep at the fall exhibitions. At Wallacetown, he showed twelve head, and practically swept the boards. He won first on his aged ram, which had also won first at Strathroy, Napier and Glencoe. He also won first on a very superior yearling, got by the imported Lord Raglan, a prize winner at Chicago, besides the pen prizes, and a number for individual animals. A.& G. Rice, of Brookbank Farm, Currie's, have their herd of Holsteins home again safe and sound, after an absence of twenty-five days at the big fall fairs. They have been most successful in the face of keen competition. There were in competition in the Holstein class, seven herds at Toronto, three herds at London, and four herds at Ottawa. Besides winning both 1st and 2nd in the test for milk product (total solids) at Toronto, open to all breeds, they won first honors in every section before one or more judges at different places, as the following summary of first prizes show: Bull, 3 years and up, 1st prize and diploma, best bull any age, Ottawa: cow, 4 years and up, 1st prize: Ist in milk test and silver medal, best female any age. Toronto, cow, 3 years old, 1st prize, London : heifer. ?years old, 1st prize, Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar old, 1st prize, London and Ottawa : heifer cly ar ol won many Lphace was taken by all an show it is the characteristic second shift at which is the show it is taken by all an show it is the shift at the shift at the shift medal.

Before ordering a new gun, read Greener's latest book; 3rd edition now ready ; price, 5s.; 270 pages ; copiously illustrated. It may be obtained from Messrs. B. & S. H. Thompson, Merchants, Montreal, or from the author,

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Aurora, - - Ontario.

Fleury plows awarded medal and diploma at World's Fair, 1893. Best lines of Root Cut-ters and Ensilage Cutters in Canada.



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Tam-esters in the i Engrited of fall bove boars of for-ished. c. H. con **55** cted. 3 and oight ages. bot.

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STOCK GOSSIP. AT In writing to advertisers please mention the Farmer's Advocate.

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Mr. R. H. Francis, Mount Brydges, has a few nice young Tamworth+ of both series for sale at reasonable rates. Call and see them or write to Mr. Francis.

Thos. Douglas & Son, Maple Bank Steer Farm, Strathroy, report a very favorable season with their stock. The stock built Young Abbotsburn's Heir, a son of the favorable getter. The females in the herd are all design well, and will go into winter quarters is get condition.

We call attention to C. W. Eckardt's "self-ing Out" advertisement in this issue. To any-one wanting Plymouth Rocks of superior quality, at right down low prices, we would say, Don't miss this opportunity? Plymouth Rocks are considered by the majority of farmers as a most superior general purpose fow!. They cross well with the ordinary barb-yard hen, stamping their good qualities with the first cross.

the first cross. Wm. Clark, North Wi'tshire, P. E. Island :-"Notwithstanding the keenest competition ever known at our Provincial Exhibition. I succeeded in carrying off at the recent show a first and 6 second prizes on my flock of Leices-ter sheep; and on my Imp. Large Vorkshires. 3 firsts, 1 second, and 1 third prize. In both the above lines I have made very satisfactory sales, the demand being good, and prices fairly re-munerative. At date of writing, have only three ram lambs left unsold, and a few choice pigs from three to five months old."

pigs from three to five months old." Mr. Isaac Johnston, Ravanna, Ont., informs us that he has decided to dispose of his entire herd of Shropshire sheep. Mr. Johnston has been breeding Shropshires for a number of years, and by careful selection and strict atten-tion to the needs of his sheep, has succeeded in establishing a flock of Shropshires of which anyone might be proud. This will be a chance which should not be acglected by any breeder who wishes to purchase a flock of pure Shrops., or by one who wishes to add fresh blood to his flock. Mr. Johnston has still a few choice ram lambs.

nock. Mr. Johnston has still a few choice ram lambs.
We recently visited the stock farm of Mr. R. H. Harding, Thorndale, Out., and found his stock of Chester Whites and Dorset Horns in good condition after their round of all the principal fairs. When asked for the number of prizes which he had won, his roply was to throw on the table a large bundle of tickets of all colors, but among which the red was par-ticularly conspicuous. Among the number were two bronze medals, obtained at the best boar and four of his get, bred by exhibitor. This boar, Cleveland, whose sire won sweep-stakes at the World's Fair, is a decidedly superior animal, having won first each of the five times he has been shown, two of which were at Torouto and London. Mr. Harding also won first for pen of Canadian bred Dorsets, at the Toronto Industrial. He has about thirty-five sheep and about forty-five pigs, which in-clude a few young boars fit for service, which are still on hand. He has also a few choice breeding rams on hand.
A. C. Hallman & Co., New Dundee :-- "The

are still on hand. He has also a few choice breeding rams on hand. A. C. Hallman & Co., New Dundee:-"The anxiety of the Toronto Industrial is now over: everything has again setled down to its normal state. The great success we have met with at the Industrial again proves the rare quality of our stock. We are only sorry we had not all the classes filled. Our grand old bull, Nether-land Statesman's Cornelius, seems as spry as ever, and certainly deserves great credit to again defeat all comers, and for the third time win the first prize for bull and progeny, besides sire of numerous first prize winners. Trade is very encouraging. Our sales were as follows, at the Industrial: A very handsome pair of heifers, one-sired by (Neth. S. C.), 3rd prize at Toronto as a yearling, and the other, a very beautiful calf, sired by Royal Can. Neth.-went to Mr. Whale, Goldstone, Ont. The 2nd prize yearling bull went to Mr. Mallory, Frankford, Ont., to head his fine herd of Holsteins. This bull was a very handsome son of Royal Canadian Netherland, his dam was a fine Aaggie cow. Another prize winner, 2nd prize calf, went to H.D. Harper. Mount Forest-sired bull was a very handsome son of Royal Canadian Netherland, his dam was a fine Aaggie cow. Another prize winner, 2nd prize calf, went to H.D.Harper, Mount Forest-sired by Neth. S. C.-a calf of fine substance and a great handler. In Tamworths we also made a few important sales. The first prize sow under six months old was secared by Mr Levi Master, Haysville, Ont. Mr. Master is forming a choice herd, and is showing wisdom in secur-ing such a fine animal. A full brother to the sow was shipped to Mr. Henderson, Pine River, Ont., a very choice animal, full of vigor, and a hog that will prove a great benefit to that sec-tion. The above pigs were both sired by our imp. boar, British Chieftain. The demand for Tamworths is very strong. Our 3rd prize sow (imp.) has just farrowed a very handsome litter, sired by our first prize boar." stred by our first prize boar." F. W. STONE'S STOCK SALE, GUEPLH. At the above sale, on October 9th, the follow-ing were the principal buyers : Mr. M. M. Boyd, Bobcaygeon, Ont., 12 Hereford cows and heifers, 1 bull calf, two-year-old Sussex heifer, and 28 Cotswold and Southdown sheep. Mr. W. Rudd, Eden Mills, bought (imported) Hereford cow, Cherry 8th, 1389, and a yearling bull, also 6 Cotswold ram lambs. Mr. W. West, Guelph, 2 Hereford heifers, and 2 Southdown rams. Mr. W. F. Barber, Guelph, 2 Hereford bulls, and 5 Southdown shearling rams. W. Woods, Guelph, 1 yearling Hereford bull and 2 Bork shire boar pigs. W. Hearn, Guelph, the Short-horn cows, Lady Furbelow 7th, 5 years, and Isabella 3th, 6 years old Mr. Richard Smith, yearling Hereford bull. Mr. Geo. Toyne, Pus-linch, 14 Cotswold ewes, and 1 ram lamb. James Carter, Guelph, 3 Southdown ewes. John Smith, Aber-foyle, 1 Southdown ram. F. Norris, Puslinch, 1 Southdown ram. P. McGarr, Guelph P. O, two-shear Cotswold ram, W. Moody & J. Husson, Guelph, 1 Cotswold shearling ram, each. A number of Retkshurs were also soid, Prices were fair, all chargs curse lowed as only a few outside bargers were press that a south burd bargers were press that a south a fuelph and the pusches and the short herd still numbers on the pure barger to a south a fuelph and the pusches and the pusches and a south a few bargers were press that a south bard still numbers on the pure bargers the south a few bargers were press that a south a few bargers a

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