

AND ORGAN OF THE ONTARIO BEE

VOI.. V. WHOLE No. }

WELLAND, ONT., WEDNESDAY, SFPTEMBER 20, 1882.

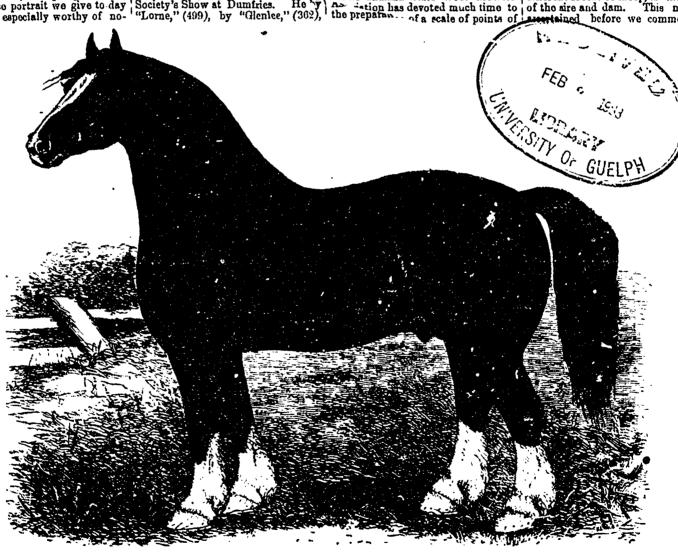
ONE DOLLAR Por Annum, IN ADVANCE

STOCK.

Show at Edinburgh in 1877, in which A SPLENDID SPECIMEN OF THE CLEY. In loss of the Glasgow Agricultural Society. In loss he was selected as First Premium Hess by the Glasgow Agricultural Society, and won First by Powell Bros., of Springboro Pa., the one whose portrait we give to day the one whose portrait we give to day stands out as especially worthy of no-

to be of the very best strains of this

been to a great deal of trouble and



Clydesdale Stallion-" NURIAN "-Imported by Powell Broa, of Springhoro, Pa.

tice. I well Bros. have a fine lot of horses, and have taken great pains in their selection.

"Nubian," (1497) is a beneficial bay "Lofty," (453), by "Old Sticthes," (577) with white markings, imported by us from Scotland, sired by "Ivanhoe," (assortion of prize at the Glasgow Agricultural Society's Stallion Show in Feb. 1676, also winner of prize at Highland and Agricultural Society's and stock getter, showing "Nubian" "Nubian," (1197), an equally famous prize winner of Indiana, your committee has a from one of more importations of standard, or breed our sheep up to a standard, or breeders of the different classes of the judges of sheep, as well as for the judges of sheep at fairs.

In bringing the matter before the association, the committee having it in charge said:

"Nubian's dam was by "Campsie,"

"Nubian's dam was by "Campsie,"

"In presenting this knowledge to the Wool Growers' Association of the State of Indiana, your committee has from one or more importations of

-ome reputable Cotswold sheep of

breeder from England. Seven points, Head,—Not to fine; moderately small and broad between the eyes and nostrils, but without a short thick ap-pearance, and in young animals, covered on crown with long lustrous

wool. Seven points.

Face.—Either white or slightly mixed with grey, or white dappled with brown. Four points.
Nestrils.—Wide and expanded; nose

dark. One point.

Eyes,-Prominent but mild tooking. Two points.

Rars. - Broad, long, moderately thin and covered with short wool. Four points.

Collar.—Full from breast, and shoulders tapering gradually all the way to where the head and neck joins. The neck of rams should be short, thick and strong, indicating constitutional ways. The neck of preschools tional vigor. The neck of ewes should be fine and graceful, and free from coarse and loose skin. (Collar five

points with owes). Six points.

Shoulders.—Broad and full, and at the same time join so gracefully to the collar forward, and the chin backward, as not to leave the least hollow in either place. Seven points.

Fine Legs.—The mutton on the arm or fore thigh should come quite to the large legs anxiety with beauty large.

knee-leg upright with heavy bone, being clear from superfluous skin with wool to fetlocks, and may be mixed

with grey. Four points.

Breast.—Broad and well formed,

keeping the legs wide apart. Cirther chest full and deep. Eight rot showing bollow behind the shoulder. (Four points afth ewe.) Five points.

Bay and Lom.—Broad, that and whit, from which the ribs must be a considered to the considered that and whit, from which the ribs must be a considered to the considered to the considered that are the considered to the considered to

spring with a fine circular arch, and scrotum of rams well covered with

wool. Ten points.

Belly.—Straight on underline. (Five points with ewe). Three points

Quarters—Long and full with mut-

ton quite down to the book. Eight

Hock.-Should neither stand in or

out. Two points.

Thest.—Or junction inside the thighs should be deep, wide and full; which, with a breast, will keep the legs open and upright. Four points. Flecce.—The whole body should be covered with long lustrons wool.

Eighteen points.

IF you want healthy, playful, friskey colis, calves, lambs and pigs next winter, now is the time to sow rye for them. We have just sown twenty bushels of rye in our con fields, and it will keep growing all winter, make the best winter feed, and in the spring it will be turned under to fertilize the soil, and feed the next crop of corn. Rye is the hardiest of cereals, and never fails to grow if properly planted.—Rural World.

Agriculture.

LETTING LAND LIE IDLE.

Farmers are beginning to see the advantage of occupying their grain fields with some growing crop after the grain is harvested. Land in a the grain is harvested. Land in a state of nature is occupied the season through. There is no "rest," as is held necessary by some with cultivated soil, for the reason that no effort is

mend it, and much to oppose. The land is not only idle, but there is a chance for weeds and coarse grasses to grow and ripen their seeds, especially in moist weather, which sometimes occurs in the latter part of the season. This in a large proportion times occurs in the latter part of the season. This, in a large proportion of land is a great source of evil, as our fields abundantly attest. To have the ground exposed during the heat and drouth of August and September, is not likely to benefit it. On the other hand to cultivate and harrow it is a benefit, no doubt more than paying for the trilling expense of the work, which is soon accomplished. If the plow is needed on account of grass and weeds, all the greater will be the benefit.

Immediately after the ground is

Immediately after the ground is worked, when yet moist, sow it to some crop so as to get it started in case of drouth. During the rest of the season the growth will be drawing fertility from the atmosphere, and shading the ground, no doubt, further favors fertility. This crop turned down in the fall, rather lightly, will afford an excellent seed bed in the spring, with the certainty of an increased yield in the crop, and the land will be cleaner and in better con dition This practice continued year ly will be a constant benefit, requiring dition less manure, and the vegetable ma terial thus added will further favor fertility by retention and the chemical effect upon the mineral matter of the soil. Clay soil will also it iess ten-acious and hard accident is some acious and hard turning down sod, what libe advantage of more speedy decomposition, and benefit to the crop that follows.

that follows.

The advantage here over green manuring proper is that it does not interfere with the regular cropping of the season. The earlier crops, like rye or wheat, being removed, a large mass of vegetable material may be grown and turned down in time for the fall sowing of winter grain. For this number there is probably nething the fall sowing of winter grain. For this purpose there is probably nothing better than the pea, which will read by rot and afford pabulum for a good growth of the grain by winter, the ground becoming sufficiently compact by spring for this grain especially in clay soils. One of my neighbors rais ed 12 bushels per acre of wheat on sod turned down a few weeks before sowing. The next year wheat on the same ground well worked without manure was a failure. I have known stubble ground bearing coarse grasses stubble ground bearing coarse grasses and weeds turned down with success for wheat, and this without manure, the soil not over rich, and for years cropped and reduced.—Ex.

It is the general complaint that when a man sells his farm he never gets pay for the improvements. It is generally the case when he buys a farm he wants such improvements neat appropriate and useful. Nearly neat appropriate and useful. Nearly all farm houses are built without regard to artistic taste or the least aim at modern improvements. They may be large but inconvenient, ungainly. low stories and probably located in just the wrong place. No wonder a man of refinement never takes into consideration the cost of such a house. It is really of no value. A small neat cottage built with taste and judgment, well painted, suitably located for aesthetic taste, and surrounded by a few chosen evergreen trees, instead of its never being paid for, will add more than double its cost in selling the farm. In building a second house farmers generally build too large, without the convenient arrange-ments which modern science has ined soil, for the reason that no effort is required for growth. Practice has demonstrated thislong aco, where land has been tilled annually for generations, and better where the land has been properly taken care of. The practice of keeping the ground un occupied the latter part of the season from the time the grain crop is removed has nothing at all to recom-

money wants something of use to him and ornamental to the premises. We plead for a better class of farm houses.

ADDING TO THE MANCHE HEAP.—
As soon as the manura heap is carted away in the spring, the gathering of material for another should be commenced. Few Lave any idea of what a large heap can be got together by carefully collecting odds and ends about a place. The care given by European farmers in restoring the fertility to the soil, is worthy the attention of American farmers. Every bit of manure, solid and liquid, old bones, decaying unimals, ashes anything that contains plant food is saved carefully. On overy highway you will see children with buckets gathering up the droppings, and in London ADDING TO THE MANUEL HEAP. ing up the droppings, and in London there are hollow iron posts at frequent intervals on the streets to receive the droppings brushed up all day long from under the horse's feet, by street boys who make their living this way.

Owners of small gardens who an mually invest in the purchase of manure, could easily dispense with the purchase by seeing that nothing is thrown away that could be placed on

the manure heap.

FALL BOWN ATE.

The Farmers' Home Fournal says:
Fall sown tyo makes the best early
great food for cattle By sowing organi food for cattle—By soving broadcast from two to four busiles to the acre in September or Ostober in the corn field, or where a potato, cab bage or any other crop has been gathered, and harrowing it in, there gathered, and harrowing it in, there will be a strong, succulent growth, fully three feet high, to cut in April. After cutting the stubble can be turned under in time to plant corn and gaden vetetables, such as beans, pers, cabbages, melons and potatoes, and especially sweet potators. Within the last week or two, Prof W. N. McDonald has expressed to us his thanks for having suggested to him this plan for having suggested to him this plan of sowing rye in the fall for the bene ilt of his cows in the spring, and he says that the rye feed in April aston-ished them all in the wonderful inished them all in the wonderful increase of butter that it caused. It produced at once a large flow of rich milk from cows that previously were almost dry. This experience shows quite clearly how much the quantity and quality of the milk is influenced by the kind of food.

${\it Horliculture}.$

A MARKET FOR ONTARIO APPLES.

The following letter is from a life member of the Fruit Growers' Association of Ontario, who has for some time been endeavoring to open a trade with the Fruit Growers of this Province. He wants only first class fruit, free from blemish, codlin math, &c., and is willing to pay for such fruit whatever it is worth. But it must be strictly first-class throughout, no inferior apples in the middle of the barrel but each apple fit to be placed on the table of any gentleman, Whoever will supply him with such fruit, a curely packed and shipped in good season, will find him a constant and increasing customer.

YARMOUTH, Nova Scotia, 31st July, 1882.

TO THE FRUIT GROWLER AND SHIPPERS OF

GENTLEMEN,—As a member of the Untario Fruit Growers' Association, I have for some years (since 1575) taken an interest in the introduction of Ontario Apples into this market, from ste and everyd comfo, table, the persuasion that when once wellknown, reliable shipment; will meet a
ready and extenive sale, as well as
from the more personal motive of supplying my own family and my friends
with choice fruit.

I have paid \$1,020 in first cost of the several lots shipped, and \$487.16 in charges of transit, and have lost in all about \$300 in the price received for surplus sold, owing to inferior quality of shipments, and to damage by frost and by decay. Last fall a party in Ontario shipped 25 bbls, ordered by telegram in October, so late in November that they were all frozen on the way, and did not even reply to my letter advising him of the fact.

I cannot afford to persevere in experiments with such expensive results. At the same time I am desirous of con-I have paid \$1,020 in first cost of

At the same time I am desirous of con-tinuing to Limport Ontario Apples, either in 20-bbl. lots for my own use,

or in car loads for sale.

I would like to hear from any grower or chipper who will agree to supply me with strictly first class fruit, so that I can sell without opening the barrels to examine, at what price he will ship me in October, say 15th to 25th, 20 bbls, or a car lond; also what varieties, and cost of freight through to St. John. N. B., by 20 bbls, and by car load. Payment to be made through Bank draft at sight.

In a 2 bbl. lot I would prefer one

barrel oach-

1 American Russes, 2 Baldwin, 3 Esopus Spitzenburg

1 Fall Pippin.

5 Famense. 6 Grime's Golden Pippin.

Hubbardston Nonsuch.

Melon.

9 Northern Si 78 10 Newtown Spitzenburg.

11 Peck's Pleasant.

12 Pomme Grise. 13 Ribston Pippin.

14 R. I. Greening. 15 Seck No Further.

16 Swaar. 17 Swayzie Pomme Grise.

Talman Sweet.

19 Wagener. 20 Yellow Bellefleur.

for any of these vericues not to be had substitute additional barrels of Nos 1, 2, 3, 6, 9, 13, 15, or 17.

For a car load say—
Nos 1 2 3 6 9 13 15 17
Bbls 20 20 20 15 30 15 20 10 - 150 bbls. CHARLES E. BROWN.

AMERICAN APPLES IN ENGLAND.

The New York Commercial Bulletin and New York Commercial Bull-line lately published the following statement from Mr. W. N. White, Covent Garden, London, as to the relative qualities and desirableness of American apples for exporting to the English purchase.

Baldwin-Free seller, bright color

Cranberry Pippins-Sells fairly well: bright color preferred.

Fall Pippins-Bad keeper.

Fallwater—Free seller, and com-mands good prices in the spring. Golden Pippins-Soft, dangerous

apple; no use here this season. Golden Russets-Free seller, and

when clear makes good prices.
Gravenstein—Soft apple; danger-

Greenings-Free seller; well-known. Gillitlowers-Poor; should not be sent to England.

Holland Pippins-Good apple, but

eoft. Jennetings-See remark against

Gillithowers.
Jonathaus-When of good color,

command fair prices.

Kings—Good seller, but should not be sent ripe.

Lady Apples-Sell well at high prices

Maiden's Blush-Good apple ; properly colored commands high prices.

Montreal Famouso-Highly colored,

sells fairly; green, bad seller.

Nowton Pippins—Large, selected fruit commands high prices small, speakled fruit, bad to sell, even at low

Nunpareils-Nova Scotia and Can-

adian always commands fair prices.
Nonsuch—Soft, dangerous.
Phænix—When clear, sells fairly;
very liable to turn black on one side, which spoils the appearance.

Pommo Grise—Sells well, particu-

larly when clear.

Pound Sweet--Dangerous.

Rambo - Modium only in price and quality.

Ribeton Pippins—Good seller, but must never be sent ripe; loses its crispness, which is essential.

Roxbury Russets-Uuseful apple; medium price.

Spitzenburg—Good apple,but quickly decays when ripe.

Spys-Must be large to sell well.

Swaars-Must be large to sell well. Talman Sweet-Medium apple; fair seller when large size.

Twenty Ounce-Good medium apple.

Vandeveres-Fair seller.

Wageners—Good color, fair prices. Woodstock Pippins—Good color, good prices.

POULTRY.

NOTES FOR SEPTEMBER.

This month is a good time, if you have not already done so, to give special attention to the cleansing of the fowl-house. It is one of the most important duties in the routine of poultry culture; and though it may entail a little labor, it will repay you for the trouble. It does not require skilled labor, only a will, accompanied with a little labor to wield a whitewash brush. The materials for use are cheap and within the reach of all. Whitewash is good alone, but it becomes better and more effectual by
the addition of an onnee of carbolic
acid to a pailful. Every crevice and acid to a pariful. Every crevice and monk of the hennery should receive a liberal coating. Do not spare it—the more the better—and if injected into places where the brush cannot reach with a hose syringe, you will find it will do much good, by exterminating and killing the swarms of lice that are hidden in each places during the day, but come out. In feast, on the fowle but come out to feast on the fowls
while on the roosts during the night.
The perches should be freely satur-

ated with kerosene oil, the underparts and sides as well as the tops, for there invitade of these pests congregate and are ready at all times to attack their The fewl house should be funigated at least twice a year to kill se germs of discase and to ban-h vermin. Sulphur with some roan or tobacco etema or the dired leaves of the black belletene, will produce death or hasty re-treat of every living thing within the foul house if the smoke is confined therein for a few hours. The droppines should not be allowed to accumulate on the floor or on the dropbonds, as they produce noxious gases detrino real to health.

This month is a good time for fanciets who do not keep their cards be fore the public during the year to make known the number and class of towls they have for sale. The fall trade in young and old stock, is becoming an important branch of the poultry business, and promises to be permanent institution hereafter .-Poultry Monthly.

THE LIGHT BRAHMA FOWL

The light Brahma fowl in its high excellence, is, pre-eminently, the general purpose bird, and is more generally beed than any other bird, and over a larger and more widely diversi-fied area than any other we know of. The farmer gets a moderate supply of eggs from them; in fact, these birds are must excellent layers on farms, as they get planty to ear and all the exercise they wish; and at "killing-time," just before or just after the holidays, there are some heavy, plump belief to market, and heavy weights birds to market, and heavy weights are the farmer's weakness; at least, with the majority of them it is so. They stand confinement so well, when well cared for, they are in demand by fanciers, and by those having but a small yard room, and they are very attractive in markings and color, and comparatively easy to breed to "feather." One of the handsomest flocks of fowls we ever saw was owned by a farmer, and consisted of about forty or fifty light Brahmas, so nicely and regularly mwked and so much alike in all the qualities which go to make the perfect specimen, we could scarcely tell which were the boot, the green sward they were running on showing off their markings to before off their markings to perfection.
There are breeds, which, as layers, eacel this bread, but for the general profitable uses of the farmer, the Light Brahma has no superior.

TURKEY BRARING.

Louis XII, has the credit of having introduced the first turkeys into France and for some time they were only bred in that country in the neighbor-hood of Bourges. At the present day on find them almost everywherein the South as in the north, in Lorraine, in Burgundy, throughout Nor-mendy and Picardy, in the basin of the Garoane, in fact, wherever there are markets to be supplied or broods of chickens to be hatched and tended. Still, it is undoubtedly certain that damp is an enemy of the turkey, which thrives much better on a sandy gravelly soil than clsewhere. At the same time, as large numbers of turkeys come to us from Ireland, it is quite plain that it is possible to a great extent to overcome difficulties of climate and by taking aufficient precaution with the young birds to bring them to majurity, even under unfavorable conditions.

No doubt the choice of the breed may have something to do with suckind may thrive better than another in some localities. There are those who greatly prefer the bronzed or motiled turkey to the black, while some have a strong leaning towards white birds, the feathers of which are much prized; yet upon the whole the black turkey sagme to be the control of the street and the same to be the sa in some localities. There are those black turkey seems to be the most universally useful, and it is always chosen by the breeders of Toulouse, who, being men of much experience, and eminently successful in their line of business, must probably have good reasons for their predilection.

FATTENING TURKETS. Turkeys while fattening should sl-ways be left at liberty; it does not answer to shut them up. The hens answer to shut them up. The hene put on flesh more rapidly and are more delicate esting them the cocks, but naturally they do not attain the same size and weight. It takes about six weeks to produce a really fine pecimen.

The better plan is, when intending to fatten, to make for the first fort-night no change in the ordinary food,

acorna, chostnuts, or anything that may be abundant in the locality. Where walnuts abound, French breeders are fond of administering them whole, bolus fashion, and will give as many as forty to a turkey in the last stage of the fattening process, but these nuts are said to communicate a diagreeable flavor of oil to the flesh. During the second fortnight, the tur-keys should be fed on mashed pota-toes, barley, maixe, or suckwheat meal mixed into a pasto with sither water, or curdled or sweet milk. This paste is made into little rolls, as thick as the finger and about three inches long, which are dipped in milk and gently pressed down the throat of the bird, meal—that is to say morning and evening. During the daytime they wander about the fields, or still better in the woods, in large numbers, under the care of some child, who has to see that they do not get at any noxious plants, such as hamlock, digitalis, cer-tain kinds of ranunculus and others. In this way they provide, at small expense, a good part of their substance, and, indeed, we may as well state, that where there is not a pretty extensive range for them it is not possible to rear turkeys with economy, for it is a most point to have a large number to great point to have a large number to-

DAIR Y.

ENOWIEDGE IS POWER.

A cow is a machine for turning fodder into milk, butter, cheese or meat, and the reasonable question is how much will the machine dispose of to the best advantage? As animals all differ from each other, they need individual study, and this can only be given by close observation with the scales from day to day, and a written record. Animals fed for beef should be weighed frequently, as that will indicate what changes are necessary. It is also much the same with feeding It is also much the same with feeding for dairy purposes. The food should be weighed or measured, and the milk also; for by this the feeder is kept constantly posted, and is not only laying up information for future use. having up information for uture use, but he acquires facts as to the particular animals he 's treating, which may be of great value. He learns the qualities of his own, just as is done on the course with a trotting horse with no record? An assurance that the unimal is "fast," or "mighty fast," is of no more account than a guess. If there is guesting to be done he can if there is guessing to be done he can guess as well as anybody. What he wants is a record to the fraction of a second. So it should be with dairy cattle when offered for sale; every one cattle when offered for said; every one should have a daily record, lasting from the time the cow begins to give milk until she is dried off with at least a general idea of her style of feeding and her live weight at regular periods. This will be more to the farmers' luter This will be more to the farmers' luter est than to anybody else, though it will benefit ail. Many a man will find that good and regular feeding proves cows to be far better than he expected, vastly so, sometimes, while if some of them are found not to pay as milkers or butter yielders, he is soon warned, and can turn them off. It is the case now in thousands of instances that farmers really don't know much about their cows individually. All are fed or pastured together without any separate weighing or recording, and their cows individually. All are fed or pastured together without any separate weighing or recording, and generally, perhaps, no weighing at all, and the owner has only a vague general idea, for which no buying expert would give a moments thought. And when a man cannot speak with any confidence of his own property, he is extended in a proof way for selheyond a supplementary repast at he is certainly in a poor way for seinightfall. This meal may consist of ling to advantage. He might resort potatoes, beet root, grain of any kind,

which soon exposes itself, and brings a just reaction.

There is no planier truth than that

There is no planner truth than that "knowledge is power. It is espectably true in business matters. In knowledge of one's resources is a shield a beacon and a weapon of offence and defence. The man who knows that he has a horse which can trot a mile in 2.10 could get \$50,000 for him easier than another could get \$500, who only knew that his horse was "dreadful fast," The narrow contemptible economy which can prompt temptible economy which can prompt a man to shut his eyes and cars to in formation about his animals because it costs a little time and attention, is of a kind which must always keep him poor if maintained. It is say ing at the spigget and losing at the bunghole."—Philadelphia Press.

DAIRY COWS.

The Springfield Republican says that good feeding as well as good breeding lies at the foundation of the dairy in terest, and says:

"The great rule to be observed in

the rearing of dairy stock is not to in the rearing of dairy stock is not to in terfere with their delicate organiza-tion by the food furnished in early life even—The system of a heifer call the even. The system of a heifer caft can be so injured by food as to disorganize her glandular system exactly as the system of a cow can be forced into diseased action by excessive or inflammatory food. A fat call evident replices are seven as the system of a cow can be forced into diseased action by excessive or inflammatory food. A fat call seldom makes a good cow. A cow that carries a superabundance of fat seldom makes a good milker, and the seldom makes a good milker, and the sholesale statement so often made milk and produces tat will produce wholly unfounded is shown to be the effects of rown hat brewers corn meal and oil cake. It is used that moreover, to force a cow to early maturity. A dairy cow never reaches perfection until she has become fully developed, and this must be done developed, and this must be done deliberately and with a view to en durance rather than precocity. Her peculiar powers mature slowly and depend very much on the strength of her constitution. In establishing a dairy herd, therefore, early maturity with its accompanying eyils is to be avoided, nor should the young animal be so fed as to develop the bony stru-ture or the fat producing organs at the expense of the muscular system. and of that delicate organization en gage, in the production of milk. In rearing animals for the dairy, care should be taken that the young are so fed as not to develop great size either in size or adiposetissue. I would not advocate a deficiency of food for young dairy stock. I would argue against an excess of articles of a highly stimulating quality. Avoiding, there fore, linseed meal or cotton seed meal, or even corn meal in excess herfers' calves, heifers and cows can be to fed on out meal, time feed 100ts row en, and chopped feed properly pre

A letter from P. O. Sharpless, Druggist, Marion, Ohio, in writing of Dr. Thomas Electric Oil, says. "One man was cured of sore throat of 8 years standing by one bottle. We have a number of cases of theumatism that have been cured when other remedie-We have a have failed. We consider it the best medicine sold.

Seven employees of the Atlanta, Ga., postoffice are negroca.

ALL tobaccos except the finest Virginia have a pungent effect upon the tongue and will smart it if the smoking is long continued. Some of them even will blister it, or at least destroy its outer skin at the point where the makes implicate upon it. The amoke impinges upon it. The "Myrtle Navy" is entirely free from this defect, which, together with its full flavor makes it a great favorite with smokers.



APIARY.

OFFICERS OF THE ONTARIO BEE-KEEPERS ASSOCIATION.

President, R. McKnight, Owen Sound, Vice-Pres. Dr. Shaver, Stratford. 2n Pres. W. C. Wells, Phillipstown Frens. R. F. Holterman, Fisherville

Executive Committee Dr. Domen Embro: J. B. Hall, Woodstock; D. A. Jones, Beston, D. Chalmers, Mussciburg, Dr Thoms, M. Ramer, Codar Grove, and N. B. Colcock, Welland

The Northwestern Bee-Keepers' Convention will meet at Chicago, Ill., on Tucsday and Wednesday, Oct. 17 and 18, 1882. The office of the Ameri-an Ba Journal has been kindly tendered as a place of meeting. A cordial invitation is extended to all bec-keepers, and especially those of the North-western States to be present. The meeting takes place during the last week of the Inter-State Industrial Exposition, to enable all to obtain reduced

c. C. MILLER C. S. C. C. MILLER C. S. C. C. MILLER C. S. C. MI Main, will meet at Hagerstown, in the in the room of the County Commissioners, at the Court House, on Wednesday, Oct. 18, 1882, at 1 o'clock, p. m., the session to last two days. The Washington County Fair will then be in progress, which will give persons an opportunity to attend the exhibition. All persons intending to go will please drop me a card, so that I may secure for them half-fare rates.

J. LUTHER BOWERS, Sec.

Berryville, Va.

EDITORIAL NOTES

THANKS .- MI. D. A. Jones, Beeton, and Mr. R. F. Holterman, Fisherville. will please accept our thanks and that of our "better half" for fine samples of their honey.

AT the price we furnish the CANA-DIAN FARMER to bee-keepers we cannot give the chromos of Niagara Falls. If you wish that fine picture, send 15 cents extra, and we will mail it to

THE labels on the honey cans on exhibition are exceedingly fine speci-mens of workmanship. They were gotten up by a Toronto firm, from design by Mr. Jones, and reflect much credit on both parties.

THE balance of the Bee-Keepers' Convention will appear next week and the prize essay probably the week after. Do not miss your papers, but remit to the Secretary at once, then we will not have to take your name off the list

MR. J. G. WALLACE, Brighton, showed us a handsome three story cake made from the receipt he kindly permitted us to publish last year. This cake had "age," being some nme months old, and was keeping well. He also had some pears preserved in honey. They looked beautiful.

I HE CANADIAN FARMER will be sent!

again during the coming year to all members of the Bee-Keepers' Association. Those who do not wish to have their paper and membership discon-tinued should remit their dollar at once to Mr. R. F. Holterman, Fisherville, the new Secretary Treasurer elect.

THE CANADIAN FARMER PRIZE ESSAY ON "WINTERING BEES."

Some time since we published a no-tice offering a prize of \$10 for the best essay on "Wintering Bees in Canada." Several were sent in and at the lete meeting of the Association in Toronto the committee appointed examined saveral essays, and as will be seen awarded the prize to the one marked No. 4, which proved to be that of Mr. H. Couse, Beeton, which will be published in a future issue. Regarding the essay we do not think it went sufficiently into details, but as far as it goes it shows evident care in preparing, and that the writer is a practical

Below is the report of the committee.

We the undersigned examining committee upon the Canadian Fall our opinion none beginned to report the are perfect in their of the page, but still award the prize to 50.4, as being the best of the essays examined by us.

D. A. Assert.

aminod by us.

D. A. JONFS, N. B. COL
W. C. WILLS, C. W. POS
DR SHAVER, D. CHALM
R. F. HOLTEBMAN, M. RAVER
R. MCKNIORT.

Toronto, Agricultural and Arts As-}
sociation Rooms, Sopt. 11th.1892. N.B COLCOCE, C. W. POST, D. CHALMERS, M. RAMER,

BEE-KEEPERS' ANNUAL CONVEN-

Instructive Leasons.

Tonovio, Sept. 13.

The first session of the Ontario Ecolicopera' Association was not hold in the City Hall here as intended, owing to some mis understanding in having prior arrangements made. Consequently a large room was engaged in the St. Lawrence Conce House which shortly after the appointed hour was clawded with bee-men from all parts of the Province

The Hon, Louis Wailbridge, President, in the chair.

BECRETARY's REVERS.

BECRETARY'S REPORT.

The Secretary, Mr. R McKnight, at the repost of the President road the following

SECRETARY'S REPORT.

The Sucretary, in: R McKnight, at the respect of the President read the following report:—
GENTLEMEN,—I have to report an increase in the inembership of our Association of nearly one hundred per cent. over that of last year. We have now on the membership roll 116 pames as against 83 in 1881. This increase was mainly secured by the offer to supply each member with a Irec cipy of the CANDIAN FARMER for a year.

The summer of 1882 will be remembered by but keepers as odd of the poorest honey seasons within their recollection. From the reports received, I find that the yield this year compared will last is in the proportion of 16 to 81. This, however, is but an imperfact estimate of the state of the honey industry. It is impossible for me to present a complete statement of the work of the Association in this remeet as only 53 out of 116 members reported. These 53 members put into winker quarters last fair 2301. Access, and in spring they took out 2136 allies. Of these 187 were of sity spring dwindling and 53 by other causes, leaving in their hand, a working force of sity stocks. When the honey season opened, the agregate surplus taken from these up to the time of reporting was 35,96 pounds, or an average of about 15 per stock as against 81 last year. The humbor of stocks now held by these 7 members is 2063, or an average of 56 each.

Respectfully submitted, R. McKNIGHT, Secretary.

R. McKNIGHT, Secretary.
THE THEASUNER'S
report showed a balance of \$27.25 on hand
after all exponses and liabilities had been
paid This was a great improvement on
last year, the report them showing only,
\$7.65 on hand.

87.65 on hand.

MR. McKNIGHT stated that conjointly with the President he had taken where to-wards gotting the Association incorporated, which was pursuant to resolution of the last annual meeting. The devermment had led them to believe that while recogniting the importance of the Honey Industry, yes as the Association was in its infancy, is would be as well to allow the matter to

stand till the Association had opened a mere thorough field of uscfulness. They further held out every encouragement that next year an amount would be placed in the estimates to assist the funds of the Bociety. The incorporation could, however, have been obtained sorthwith, but the committee thought would be better not to accept it unless it carried with it a grant.

HON L. WALLINIDOR in his address end with Mr. Li. Kinght he had applied to the Government for incorporation and a grant. The former sould have been obtained, but the Government would not give the grant, at least, this year. As for himself, he falled to see the use of incorporation without a grant. The association did not calculate on holding any lunds, nor on suing or being sued. We were unlike entomological, horticultural and such kindred societies; ours was not entirely for the public benefit, but out own. We, for one, calculated on making money out of bess; most beskeeper, do. We met here to exchange views to further our own interests. We had, therefore, no direct claim on the government. He had worked hard for it, however, in accordance with the wish of the Association; but like Mr. McKnight he did not think it in the interests of the Association to take incorporation unless it carried with it an annual meney grant. He believed Canada was one of the

money grant. Ho believed Canada was one of the

BEST HONEY PRODUCING COUNTRIES
on the face of the earth. Then, why did not our fariners go into bee culture more? There was money in it, and lots of it, too. The more honey was produced; the less sugar would be imported, coasequently more money would be kept in this country. Any farmer could, if he wished, produce honey onough off his farm to keep him in aweets all the jear result Honey was one of the finest sacekarine matters for canning purposes, in act sweetening of all kinds. What he had learned about bee-keeping he what he had searned about bee-keeping he had grant pleased in hee-keeping. Some had told him that he made a religion of it. This he would not deny. Nothing that he knew of our day of humanity pointed as distinctly to the God that made them than these intelligent hittle workers. Look for one moment to them working out the Lord's Prayer, as they had done in Mr. Jones' Apiary—watch their every move,—the interest they have in their colony, their almost real intelligence displayed in their internal management. They were mathematicians of the highest order; what can be truer than their workmanship. Around the hive they seem to know me, to make friends with me, and I treed them as such. He regretted the past year had been a

Which to be dead about the New Jona of the Man Strate of the Strate of t

fined his attention altegether to box honey. He took off the sop down to the comb frame, then placed two small sticks one-hair menthick across the top of the hive. Then he placed over that, his bee quilt made by taking coarse linen such as comes around bales of goods. Cut two pieces an inch or two wider than the hive, lay in one two thick meas of cotten batting, placing the other piece of linen on the top, sow the edges and thus form a cushion. This he called his bee quilt. He then gave lots of bottom ven tilation as much as they have in summer Cook's book is very defective on this pointit on its better word as they have in summer to mits bottom ventilation, and this they must have it keeps them dry The temperature he kept at from 40° to 41°. It went as town as 10°, and as high as 40°. He did not lose a bee, except those that died of old age. He had not even to clean of the bottom board, and he attributed all to bottom ventilation. They had no fly during the winter, and were set out in April. He thought the moisture that would have gathered inside the hive escaped by permeating through the cushion, drying on the top of it. He could same in the whole secret of wintering boss by impressing this on bee keepers, "Keep in the heat and let out the moisture. He believed the Worthy President was correct. He keepers should keep these three all important points before them.

them.

1st. Have lots of stores.

2nd. Lots of young bees.

3rd. Keep in the heat and let out the moisture.

moisture.

He was entirely in accord with bottom ventilation, not only on account of the moisture but to give an opportunity for poiscenous vasses to secape. He graphically illustrated heving found so much poisonous gas cearbonic reid gas in his bee house once that it put his lamp out when going in to see the cause of his bees rearing. He found the gas six inches deep, Uncovering his foor ventriation for a few timutes, the gas escaped, running down the drain, and the bees soon got quiet.

MR WELLS favored pottom ventilation.

Thos Forpar, Brockville, thought the time would come when bees could be kept dormant during winter. He did not believe in top ventilation, but rather a board to make an air cavity. It was not cold that killed bees. He liked to winter below freezing point. He told of a Mr. Win. Thompson in Scarbero who to kill his bees was in the labit of buying them in the fail. One winter the ground was frozen so much out of doors he could not dig a hole, so made one in his woodshed, put in his bees, and covered them with earth. In the spring they all came out alive.

Mr. JONES-I will give \$500 for a queen that will raise bees like that. (Laughter.) He thought there could be no greater inistake nade than to spread the report that boes can be wintered below freezing. He had experimented on all temperatures and found \$20 to \$10 the best.

Moved by Dr. Shaver, seconded by Mr. D. A. Jones, that the meeting now adjourn to meet to-morrow morning at 10 octock in the husinessthen to be the selection of officers for the coming year and the appointing of a committee to select the successful competitor in the Prize Essay on wintering bees warded by the Canadian Farmer, of W lland.

Meeting adjourned accordingly.

Meeting adjourned accordingly.

SECOND SESSION.

SECOND SESSION.

The seeting again resumed according to resolution in the Industrial Association Re-ms on the Fair grounds. In the absence of the President, Mr. W. C. Wells, of Phillipstown, took the chair.

Moved by Mr. Jones, seconded by Mr. Forfar, that the committee on Prize Essay be composed of nine members of the Association, seven to form a quorum—Carried The following gentlemen were then so lected.—Dr. Shaver, Stratford, D. A. Jones, Recton. W. C. Wells, Phillipstown, C. W. Post, Murray; N. B. Colcock, Welland; D. Chalmors, Musselburg, R. F. Holterman, Fisherville; M. Ramer, Cedar Grove; R. McKnight, Owen Sound.

McKnight, Owen Sound.

SELECTION OF OFFICERS.

The meeting then proceeded to select officers for the coming year, the names so chosen to be submitted to the evening meeting to be held fu the City Hall. It resulted as follows:—

Pro ident—It. McKnight, Owen Sound.
1st Vice President—Dr. Shaver, Stratford.
2nd Vice President—W. C. Wells, Phillipstown.

wu. Secretary-Treas.—R. F. Holterman, Fisher-

town.

Secretary-Treas.—R. F. Holterman, Fisherville.
Executive Committee—Dr. Duncan, Eurbre; J. B. Hall, Woodstock; D. A. Jones, Bectou; D. Chalmers, Musselbu,g; Dr. Thom, St. Thomes; R. Ranner, Codar Grovo, and N. B. Colcock, Welland.

Moved by D. Chalmers, seconded by Dr. Shavor, that the sum of \$10 be denated Mr. McLuight, late secretary, as a small teken of his past services.

The resolution would have been carried unanimously, but Mr. McKnight requested its withdrawal, saying what he had done had been granitously, and he wished it to be considered as such. If the resolution was carried he would not accept the donation. He thanked them, however, for the expression discurred to moet "gain in the city hall at 7 p. in.

THE PRIZE ESSAY
The committee then met, all present
MR Colcock laid the essays received on
the table, the names of the writers being
in scaled envelopes which were numbered
to correspond with the number in the

to correspond with the number in the casaay.

MR HOLTERMAN then read them cach over, the committee deciding in favor of No i, which proved to be that of Mr. H. Couse, of Beston.

The committee's report will be found at the head of this report, and the essay will appear in a future issue [The report of the evening cossion will appear in our next issue.]—ED.

$LAD^T\!E\!S^*DL^D\!T.$

WOMEN AND BUSINESS.

Two things should be included in the education of every girl; she should be taught practically the value and use of money, and she should be trained to do some sort of work by which she can carn a livelihood, if need be. Children of eight and ten years of age should have an allowance. They are too young of course, to be rusted a large sum of money, but they with a large sum or money, but they should be given a fixed sum, and out of that should be expected to get certain articles of dress, say ribbons and gloves. As they grow older, and are learning by experience how to use money, the allowance must, of course, be increased, and the range of articles left to her judgment extended; till at ages varying from fourteen to sayen. ages varying from fourteen to soven-teen, according to the development of the child, a sum sufficient for all per-

sonal expense may be given monthly. Let them use the surplus as they please. let them never in a year everrun the allowance, let them feel the consequences of their folly, mistakes, or self-will. Do not come in and make up deficiencies, unless in very excep-tional cases. In this way they will lean wisdom in the use of mency; the reasoning faculties, the power of estimating the relative value of things will be gained while the child is still under the protection of parents, and experience will be bought at its cheapest rate. An account book, with the left hand pages devoted to receipts (or all that comes in), the right to paymerts (or all that goes out), balanced weekly or monthly, should be kept conscientiously and submitted for inconrelentiously and submitted for inspection occasionally. Any girl with a proper personal pride and individuality will learn to like the independence which this system gives. To have to ask for every article of dress or luxury is somewhat galling to young people, and where it is a home where atrict economy must be practiced, it is sometimes a source of great pair. sometimes a source of great pain. On the other hand, this plan simplifies matters greatly to the parents, especi-

problem of domestic economy, instead of an unknown one. Some parents object that giving an allowance makes their children too independent, but I do not think this is the case. Children it seems to me, are practically more grateful for money given freely for their own use, as a regular allowance, then they are feather. than they are for the apparate articles purchased for them. They themselves have a chance to learn the luxury of giving, and they enjoy the presents made to them outside the stipulated sum far more than when bestowed under other circumstances. The independence nurtured by this system is of the right sort.

The second thing which should be thought of in every woman's educa-tion is that she should learn some one thing thoroughly, by which she may support herself, if necessary. Just because marriage is a woman's noblest life, it should nover be entered into but from the purest motives. No woman should look to marriage for a home—for a maintenance, but always and only for her highest life. Women and only for her highest life. Women were not intended to be thrown out into the world to be jostled and wounded in the struggle for a livelihood. It is the veriest perversion of ally in a home of narrow means, by hood. It is the veriest perversion of introducing a known quantity into the a true social life which makes it other-

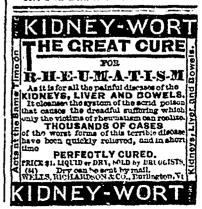
wise, but it is the part of wisdom to look at things as they are, and meet the existing conditions. As a matter of fact, women are thrown out upon the world to earn their own living, to rear and educate their children; sometimes even more than this rests upon them to do. When a woman knows she is competent to earn a living, it will not hurt her if she does not need to use her ability. If misfortune threatens, the knewledge that she is not helpless saves many an hour of heart sickening despondency, and, if misfortune doce come, she is equipped to meet it. The low prices which women get for their work are due to two causes, its proper quality for want of special training, and the enormous competition in a few fields. When women are well-trained and thoroughcompetent, and when they learn (as they are learning) to do something besides sewing and teaching, they will
command higher remuneration.
There is little to fear from the fact
that women will be more judependent of marriage than they now are. No really womanly woman ever takes the helm and sails out into strange waters with all the responsibilities of life resting on her, without great suffering. It may be that the pain seems light when compared with the torture from which she has escaped; but it is always hard to do a man's work with only a wo-man's heart to back it. That is no reason, however, why, by our absurd systems of education (or want of education rather), we should add the element of despondency and inellicioncy to the other necessary evils of such a life. We do not make our girls more womanly, but only more help-less—S. B. II., in The Century.

A PARISIENNE'S BATHROOM.

The bathroom is round, and the walls and ceiling are quilted every-where with black satin, relieved by yellow buttons, there is no window either in the walls or ceiling. The light comes from pink lustres borne by nymphs in white marble. The sofa, low and broad, is in quilted satin. The pier-glass is framed with flying cupids. The bath, in black marble, shaped like a Roman car, is half buried in flowers. The gilt amen-basket hangover a brazier, burning perfumes. The earpet is a black bear-skin. The bath-mixture is compounded (after the receipt of a learned chemist) of almond juice, benzoin, Constantinople rosewater, cocoanut milk, and palm leaves. It should be as hot as possible, warm water having, like cold, the effect of closing the pores of the kin. The bath may last an hour, th ugh most awould be also to get out of this people would be glad to get out of this mixture as soon as possible, and after that another hour may probably be employed in polishing the feet and hands. But the whole time is not necessarily lost to the mind, for ladies may "meditate on combination in toilets" while they are on the simmer. -Cor. New York World.



7 No. 1660—Lady's Wrapper. The pattern of this garment is cut in five sizes, 32 34. 33 33 and 40 inches bust measure. 34 yards material and 4 yards cord



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Contributors, &c., to the "Canadian Farmer."

T C Robinson, Owen Sound C. L. Whitney, Lecturer Michigan State Grange, Muskegon Mich. P. H. Hendorshot, Bertie Vineyards, Storensville Out

Geo Elliott,—a taker of eight prizes at the Provincial Poultry Show-Pert Robinson Out.

APIARY.

D.A.Jones, of the Beckeepers Association of Ontario. Becton Ont.
R. Mokinght, Secy-Treas. Beckeepers Association, Owen Sound.
M. Richardson, a large exhibitor at Provincial Shows. Port Colborno, Ont

MAPLE SYRUP, SUGAR, &C Loyi R. Whitman, an extensive manufac turor, Knowlton, Quebec.

GRAPE CULTURE. Dr. Joy, Tilsonburg, Ont.

GENERAL PARM SUBJECTS. M McQuade, Egmondville, Ont. S. T. Pettit, Belmont, Ont. II, S. Creed, Newport, N. S. George Creed, South Rawdon, N.S.

LADILS' DEPARTMENT.

Mrs. 5. H. Aenes, Grimsby, Out YOUNG FOLKS' COLUMN

Children of our numerous subscribers from every part of the Dominion, under the super vision of "Our Little Folks' Editor."



CF For several years we have furnished the barrymen of America with an excellent arti-cial color for butter; so meritorious that it met at success everywhere receiving the

diry Fairs.

2 Flut by patient and ecientific chemical research we have improved in several points, and now offer this new color as the best in the world. search we have improved in several points, and now offer this new color as the best in the world. It Will Not Color the Buttermilk. It

Will Not Turn Rancid, It is the

Strongest, Brightest and

Cheapest Color Made,

rAnd, while prepared in oil, is so compound hat it is impossible for it to become rancid. ed that it is impossible for it to become rancid.

IFBEWARE of all imitations, and of all other oil colors, for they are liable to become rancid and real the butter.

IF if you cannot get the "improved" write us the first where and how to get it without ext a capenes.

NELLS, RICHARDSON & CO., Rarlington, Vt.

A critic says that a Metcalfe street lady has inherited the voices of all the nightingales, larks and canaries that ever warbled; but that her husband has a voice like a North-east wind, charged with rheumatism.

Custom House Officials will please bear in mind that Lady Lofty's luggage is not to be examined when she returns from Europe. What is the use of being a minister's wife unless you have some privileges?

The Canadian Farmer.

The Only Weelky Agricultural Pa ier in Canada,

Is published every Wednesday morning by the Welland Printing and Publishing Co. at their offices, Welland. N. B. Colcock, Gener-al Manager.

To insure prompt attention send ALL remittances by registered letter or Post-office order, and ALL communications etc., to

CANADIAN FARMER, Drawer A, Welland, Ont

Parties living or visiting in Toronto, will find it convenient in advertising, etc, to ad-dress our editor. Mr. W. Pémberton Page. His office is at No. 63, King St. East, Toronto.

W. P. PAGE | Editors.

WEDNESDAY, SEPT. 20, 1882.

EDIIORIAL.

CROP REPURT.

In this week's FARMER we inclose blanks to be filled in as accurately as possible. We hope those who receive them will comply with our request speedily, and return the blanks filled out with as little delay as possible.

FARMING.

It seems to us the future of farming has never looked so prosperous as at present. Agriculturists are realising more freely every day the fact that theirs is the foundation rock of all prosperity, and that they are the mediums, or motive power that runs and sustains all industries. Learning and acknowledging this fact is a long step towards improvement, and when they come freely to realize the necessity of education and the assistance this will give them, a marked change can be looked for in the financial and social condition of the farming community. It is not enough that we know how to plough a straight furrow, or swing a scythe or cradle, there must be a general change of social life and intellectual culture, a broadening and expanding of mind, a better knowledge by reading, study and social contact; not so much living alone with the plough, and the boe handles as principal company, but seeking contact more with the world. The welfare of this country is in the hands of the farmers if they knew it; its commercial as well as political management might be subject to their will, if they would only exercise the mind power, but in this latter (political) condition there is no more subservient class to the will of their masters-political wire-pullers-than they. It is the farmers' votes that elect our legislators, but not their voice, for but few have the courage to study and discuss questions on their morit, and without party prejudica. If they did a different class of men would rule the country, and the agricultural interest receive more direct encouragement and attention.

THE Minnesota Farmer, published in Minneapolis, is now issued as an eight-page weekly. It is a live paper, full of information, and deserves, and c idently gets extensive patronage. It is sure to succeed.

Tas Prairie Farmer published in Chicago Las changed its form from an eight page to a sixteen page paper. The first number in the new form carse out two weeks ago, and it certainly shows a very decided improvement in get up. The Prairie Farmer is an excellent paper and this change will increase its reputation as one of the best agricultural journals of this continent.

WE Lave a few bound volumes of the FARMER, for 1882, for sale. Apply to this office.

MARTIN'S AMBER. - A sample of this fall wheat which we have from Mr. Everitt, is one of the finest we have ever seen. It is beautiful in color and perfect in contour. This wheat is for sale by Mr. J. A. Everitt, of Watsontown, Pa., at 50 cents per lo., or \$10 per bushel, with smaller amounts in proportion.

THE OBJECT OF THE AGRICULTU-RAL FAIR.

The near approach of the season for agricultural fairs renders the methods of conducting these autumn festivals subjects of intense interest to the farming community. Few will dispute that the main object of a farmais fair should be its educational featiffe, manifested especially in the ex-sition of choice farm products, whicher of cattle and sheep, grain and roots, fruit and flowers or agricul-tural implements and machinesy. That exhibition which approaches nearest this standard will exert the most beneficial influence on its partici-parts and upon its visitors. Agricul-tural fairs should cease to represent only museums of curiosities, collections of monstrosities, or exceptional prod. is. Neither should these socie-ties attempt to include within their encouragement articles foreign to the direct interests of the farm and the farmer.

INDUSTRIAL EXHIBITION.

Continued success has marked the course of this exhibition the past week. course of this exhibition the past week. Large crowds of people were in attendance, and the interest kept up well. The exhibition as a whole, compares favorably with past years, in some respects is better. The special attractions, the bombardment on Monday, the electric light, speeding in the horse ring, &c., all helped to draw a crowd. In fact, these special attractions were advertised, as they are absorbing features of the exhibition. It sorbing features of the exhibition. is questionable however, if the efforts put forth in this direction result in as much benefit to the people as if applied to the legitimate work of our Industrial and Agricultural Exhibition.

In machinery, farming implements, &c., the exhibition is a success. The facilities offered for getting exhibits to Toronto and the unequaled accommodation for exhibitors to display to advantage, especially machinery and implements induces manufacturers to exhibit here who will not be seen in other places, and if the interest among agriculturists and others can be suffi-iently best up to induce them. agriculturists and others can be sum-ciently kept up to induce them to attend, exhibitors will continue to im-prove the opportunity and advantages this exhibition offers. We learn from a prominent member of the Board, that in future it is contemplated with drawing the prizes from mechinery drawing the prizes from machinery and implements and giving it instead tario Experimental Farm naturally atto other classes, stock, products of the tracted a good deal of attention. It

field, orchard, &c. The reason for this field, orchard, &c. The reason for this is that let the judges do as they may, a great deal of dissatisfaction is expressed, and those who receive a third prize or none, feel their trouble has been for nothing, and a possible injury done their business, while if no prizes were offered the public would jut go for themselves, and the opportunity of showing their goods would be sufficient inducement to call forth a good display. Besides, by placing a good display. Besides, by placing the funds used in paying prizes to manufacturers, upon agricultural products and stock, a much larger show in these classes would be the result and hance greater interest. result, and hence, greater interest among agriculturists.

STOCK.

The show of stock this year was very fine indeed. A more interesting scene is seldom visited than that when the prized animals were all paraded in the ring on the closing day of the exhibition.

There were horses of all classes Clydesdales, Percheron, Thoroughbreds, Suffolk, &c. This latter class is not so well known as some others, but a look at one especially, exhibited by Win. Sadler, of Galt—a chestnut stallion—will warrant us in saying they will prove a valuable breed of horees.

horees.

The Percherons are also a fine class.

Among these is the celebrated horse
Romulus, a fine specimen, also another called Young Romulus, owned
by E. A. Brickman & Co., Rednervil., looked upon by many as quite
his equal if not better. In this class
also were shown several brood mares,
the first price was carried off both for also were shown several brood mares, the first prize was carried off both for mare and colt by Bullachey Bro's, of Brantford. This mare is a gray, not in as good condition as some others having a foal by her three weeks old, still shows well her good points. She is called Peerless, is 161 hands high and weighs 1600 lbs.

In Clydesdales the show was large.

In Clydesdales the show was large, also in thoroughbreds.

CATTLE.

Among these were seen Durhams, Among these were seen Durnams,
Devors, Herfords, Polled Angus,
Jerseys, &c., also a breed of cattle
called the West Highlands, shown by
Mr. G. Whitefield, Roguemont, Que.
These cattle are imported from the
highlands of Scotland and are a peculies also of cattle, not large, about liar class of cattle, not large, short legged, heavy horned and long haired. They are noted for their good beef qualities and their hardiness. Mr. Whitefield also exhibited other classes of cattle, his exhibit comprising the largest, most varied, and finest exhibit of thoroughbred cattle on the grounds. Mr. Whitefield exhibits some fifty, all comprising specimens of the Polled Angua Galloway, Devonshire, Sussex, and West Highland breeds. The farm at Rougemont is about 1,400 acres in extent, and some five or six hundred head of cattle are at present in stock there. Baside: breeding largely for the supply of others, Mr. Whitefield keeps an extensive dairy of Ayrshire and other cows, where the butter made is mainly for the export trade. In this establishment a vast deal o. monoy has been expended, and the Canadian public is deeply indebted to the dian public is deeply indebted to the enterprise of this gentleman in his efforts to improve and increase the breeds of cattle in this country. The cost of the present exhibit alone is, in its way, something enormous. All the thoroughbred animals shown are imported, and some of them have come there almost direct from the Old Committee of the control of the committee of the comm here almost direct from the Old Coun

try.
EXPERIMENTAL FARM'S EXHIBIT The exhibit of cattle from the Onconsisted of four 2-year-old fat steers, one 4-year-old Shorthorn heifer, and thirteen head of fat shearling wethers. With the exception of the heifer, these animals are shown for the purpose of letting the farmers know the best character of beef and mutton for exportation. The experiments in feeding these cattle show the following results: Shorthorn grades averaging 920
days, weigh 1,602 lbs. after being fed
upon equal parts of corn, peas and
oats. The food consumed by them at each meal, being carefully weighed, thirty-five pounds roots, during winter; thirty-five pounds green fodder during summer, four pounds lineced cake for the last three months, two pounds bran, and one-quarter pound Thorley's for the same period. The actual cost of production is shown to amount to \$133 for each animal from birth until new, and while present value is only \$121 for exportation, at 71 conts per pound, it is well known that 10 cents per pound can be obtained for them for Christmas use. In addition to this the manure obtained from each is worth \$53-a statement which was freely corroborated by ex-perienced farmers yesterday. The net profit realized during the feeding pro-cess of the twelve months amounts to \$43 per head.

FAT SHEEP. The fat sheep shown consist of five different grades and one thoroughbred. It is important to remember in this experiment that the female source of all these grades is the common Canadian ewe; and therefore comparisons are the more reliable, when all are handled under the same management, same breeding, and the same kinds and qualities of food. The weights of these shearling wethers vary from 220 lbc. per head in the case of Leicester grades down to 150 lbs. in that of the Merino grades. The food in this case consisted of peas, oats, bran, hay,green fodder, and a little oil cake. As this is a new and important branch of farming industry, it may be as well to give the value of the carcase and wool of these grades. Beginning with that which is regarded as the most valuable the Shropshire gives \$12 in value of thesh and \$2.80 of wool, and having cost \$6 to produce, there is a clear balance of \$5.80 per head. While the famous Southdown realizes more per pound for its flesh than any other, yet its weight is less, thereby reducing the balance in its favor to \$5.15 per head. The next in order of merit is the Leicester grade, which is worth only \$2.66 per head. This is accounted for in consequence of its rough character in comparison with the finer and betterflavored flesh of the Upper Down, for which the English gentleman is always ready to pay the highest prices.

This interesting list is closed with the old and well-known Merino, the grade of which shows the least valuable results, being particularly light, both in carcase and wool. Its balance is \$1.19 per head.

AGRICULTURAL HALL.

The exhibit in this hall is not up to former years, owing doubtlessly to the lateness of the season.

In most sections of the country the weather has been favorable for the grain crops, and the samples shown grain crops, and the samples shown are consequently very good. An interesting exhibit is made by Watter Grant, Thornbury, who shows a large collection of grains in the straw, for which he takes the silver medal. Some Wight wheat in this collection attracts which he takes the silver medal. Some hibited obtons, tweeds, mandiaca, from which Tapioca is made, &c. considerable attention. The straw is long and firm, and the kernels are will filled, bright and clean. The same exhibitor has a sample of two-lamb onto the straw is an exhibitor has a sample of two-lamb, ont, show a wind mill con-lamb of the left Niagara Falls the other day, and the railways of the United tates have permitted during his trip t San Francisco last week, he doubtless has yet. The Marquis of Lorne is the "armed excert" of the Princess Logise.

rowed barley, which is magnificent. The white winter wheat is above the average, and in this class Messers. R. Tuck, Freeman and William Tuck, Waterdown, take the palm. W. M. Smith, Fairfield Plains, shows an extra sample of red winter wheat, and T. J. Manderson, Myrtle, of bald spring wheat, Simpson Rennie, of Millikens, shows good samples of barley.

Owing to the latences of the wason the roots are not so matured as they will be a little later. The potatoes are excellent this year, although the skins are hardly ...t. A most enterprising exhibitor is Mr. J. R. Rowe, of King, who shows no fower than 180 varieties. They make 30 bushels in quantity, and take all three prizes. Mr. Rowe also exhibits some new varieties never be-fore shown. One of these makes a very pretty tuber, and was produced by a graft of the Cup on the Extra Early Vermont. In shape it is like the Vermont, while the eyes are those of the Cup. Among the garden kinds he shows are the Pride of America and Paxton's seedling. The latter has given a most promising yield, but its table qualities have not yet been tested. James Dandridge, of Mimico, 18 probably the next important exhibitor in potatoen

HORTICULTURAL HALL. The exhibit of fruit is small. would naturally expect here a large show of fruit, but perhaps the season being late has something to do with the meagerness of this department. There are some fine specimens but few of tnem.

MISCELLANEOUS EXHIBITS

In the Agricultural Implement hall Mr. John Abell, of Woodbridge, has a novelty in the shape of a 25 horsepower compound portable steam engine. Its object is to save fuel and water, and it is said it can be run with two and a half pounds of coal per horse-power per hour. Another new machine shown by this firm is a straw burner, intended for the North-West Territories. It uses a ton of straw for a day's threshing of twelve hours, or 200 lbs. per hour per horse-power. It consumes its own gas and will burn wood if desired. Mr. Abell also show six portable engines, a portable saw mill, three vibrators, and a ten horsepower threshing engine. THE BRAZILIAN EXHIBIT.

Many of our readers are probably unaware of the large extent and practically unlimited resources of that magnificent country, Brazil. The in-terest attaching to a collection such as the present one fully repaid a close inspection, and the more so now that Canada has such close and easy connection with Brazil by the new line of steamers.

AURICULTURAL OPERATIONS in Brazil are at present centred upon coffee, cotton, sugar, tobacco, mandioca, some cereals, beans and cocoa. Rice, which is easily grown throughout Brazil, and cotton, which yields magnificant reput all the reputation nificent crops in all the provinces, bind together the territory, sugar and re-bacco following in their train. The cultivation of sugar-caue has, in many districts, latterly given way that

COFFEE.

The immense development of this branch of industry, and the rapidity of its movement, especially in a country where labor is so scarce, are among the most striking explomical phenomena

of the centure
Among ouer articles also were exhibited Jottons, tweeds, mandiaca, from which Tapioca is made, &c.
The exhibit was of peculiar interest.

structed on the turbine water wheel principle. It is something entirely principle. It is sometimes unmis-now, and appears to posses unmis-The wheel is takable advantages. The wheel is furnished with an automatic topper in case of sudden gales.

TENTS AND TENT FURNITURE.

Those who visited she splendid dis-play of these goods made by the Na-tional Manufacturing Company, of Ottawa, will see that a very high point of excellence has been attained. Here, for instance, is a delightful tent-sofa with almost all the comfort in it of parlor article, which in a twinkling may be closed up and packed away. And there are tables and chairs and cots, all got up on the same principle and equally portable. A very fine bit of comping goods is the cot with canopy attachment. It is very small and portable, and furnishes an exceed ingly comfortable bed and tent for the camper. Another exceedingly valuthe National Company, is a fording stove, with pipes and all utensils complete, which, when folded up, makes a box of about a foot square. There are also shown samples of the airy hammock, so much delighted in by the female camper. The Duke of Man-chester procured his camping outfit from the National Company, and what-ever required was by the Governor-General for his trip to San Francisco in this line were procured from this company, who also send consignments to Australia and other colonies.

There is another display in this line by the International Tent and Awning Company, of Ottawa. The articles Company, of Ottawa. exhibited are similar to those already described, although not quite co elaborate in the furniture. Aiken-Aikenhead & Crombie, of Toronto, show a couple of booths.

SELF BINDERS.

Among the exhibitors of self bind-Among the exhibitors of self bind-ing reapers, were Elliott & Sons, London; Harris & Co., Brantford; Patterson & Bres., Patterson; Globe Works, London; Massey Works, Tor-onto. This latter firm exhibit what they call a Law Dominion Binder. From its appearance we consider it a good thing. It is lighter, being less machinery about it, and works near the ground.

THE EXHIBITION IN GENERAL. The exhibition taken altogether was a grand success, and reflects great credit upon the Board of Management who have given time and energy to it. Infuture permanence as an exhibition is now fully established, and we have it may go on improving, as its infuence over the manufacturing, aricultural and general interest of the frovince, will be felt in future years.

Borsford's acid Phosphate in NERVOUS DEBILITY

DR. EDWIN F. VOSE, Portland, Me,, says: "I have prescribed it for cability, and it has never failed to do good."

Princess Louise still insists upon being guarded by an armed escort while thaveling in Canada.—Farm and Work-

slup, Porra, Ill.

If our agricultural contemporary is seriou, we suppose we must be too It is quite true. Her escort is armed, in fact he has two arms, or at least he had when he left Niapara Falls the A genuino princo i said to bo selling beer in Philadelphia.

Mit. John Maciwood, Victoria Road, writes: "Northrop & Lyman's Vegetable Discovery and Dyspoptic Cure is a splendid medicine. My customers say they nover used anything so effectual, Good results immediately follow its use. I know its value from personal experience, having been troubled for or 10 years with Dyspepsia, and since using it digestion goes on without that depressed feeling so well known to dyspeptics. I have no hesitation in recommending it in any case of Irdigestion, Condination, Heart-burn, or troubles arising from a dis-ordered stomach."

Mr. Robeson seems to be the toy pistol of republican politics.

WE contracted to insert Mack's Magnetic Medicine because we are assured that the firm was composed of reliable and honorable gentlevien, and also, because the medicine was recom-mended as being all and more than the advertisement laimed. We are informed by druggists that it is the best selling article they have, and that it gives satisfaction to their customers. See advertisement in another column

The war interest on Tennessee State bonds amounts to \$4,041,000.

H. Gladden, West Shefford P. Q., writes: "For a number of years I have been afflicted with rhoumaticm. Two years ago I was attacked very soverely. I suffered a great deal of pain, from which I was not free for a day, until last spring, whon I began to use Dr. Thomas' Electric Oil, and I rejoice to say it has cured me, for which I am thankful."

Boston, as well as Baltimore, pro-hibits the manufacture and sale of the toy pistol.

MISERABLE FOR TEIRTEEN YEARS In order to acquire the rights of full citizenship in the United States, the native born must have reached the age of 21 years, and have gone through two full, but short courses—of rheum-atism, says a growler at our clbow. In Canada, however, the courses of rheumatism are not so short, running, it would seem, as long as thirteen years, at least in one instance, that of Mr. James alaboney, Sr., of Orillia, Ont., says. "I have been a sufferor with rheamatism for the past thirteen years, and have tried, during that time, very many of the remedies advertised for it, but all without effect. buy a bottle of St. Jacobs' Oil. The first application relieved me, and up-on the second application the pain ceased entirely, and has not since re-turned. It affords me much pleasure to make this statement of my experi-ence with St. Jacobs' Oil, and I sin-cerely wish that every sufferer could know of its wonderful virtues."

"Does your wife take much exercise?" asked Fenderson to Fogg, whose family is at the seaside. "Exercise!" family is at the seaside. "Exercise!" exclaimed Fogg; I should say so. She changes her dress six times every day.

**"Help yourself and others will help you." But don't fail to use Kidney-Wort for all liver, kidney and bowel complaints, piles, costiveness, &c. The demand of the people for an easier method of preparing Kidney-Wort has induced the proprietors, the vell-known wholesale draggists, Wells, Richardson & Co.. of Burlington. Vt. Richardson & Co., of Burlington, Vt., to prepare it for sale in liquid form as well as in dry form.

COMMERCIAL.

TORONTO, Sept. 18. There has been little change in the Old Country wheat market, sithough what there has been has tended towards lower prices The new wheat crop, new provailing in the in all other street it a lower appearance in comparison with prices a week or two ago than exists in reality; for old wheat would still bring higher prices than the new. New York and Western markets are still somewhat uncertain, and rather weak. In Montreal there is not much doing and prices are lower in sympathy with the Old Country rates. Flour is dull sais. Superior extra is quoted at \$5.50 to \$5.60; Bpring extra "t \$5.10, birong Bakers', \$6 to \$3.50, and fine at \$3.75 to \$4.

Name of the state of the state

| Choeso, | | Dostination. |
|--------------------------------------|--------|--------------|
| boxes. | pkgs. | 7 1 |
| 68. Polynesian 3.760 | | Liverpool. |
| Dominion 8,116 | 843 | dő |
| Buonos Ay- | | |
| rean iil | 703 | Gissgow |
| Cornwall2.705 | ***** | Bristol. |
| haro1,094 | ***** | London. |
| 7.4-1 60.000 | 3 5 40 | |
| Potal16,029 | 1,540 | |
| Week previous 7,217 | 1,312 | |
| Week previous 7,217 Corresponding | 5.004 | |

......11 er 113112 es 12

Here maters on the produce market are dull, owing to the prevailing uncertainty as to prices. White wheat old is worth about \$1.11, while now red is at about \$1.05.

On the street grain has come in fairly well. Wheat brings about 95c to \$100 for fall, and spring about \$1.10. Oats are worth 49 to 52c,, and barley 65 to 760.

Butter is at 22 to 27c, per ib rolls, and 18 to 23c, for tub dairy.

PRICES AT PARMERS' WAGGONS

| • | | | |
|--|---------------------------------------|----------|---------------|
| Wheat, fall, por | bush | \$0.35 | -1 DO |
| Wheat, spring. | do | 1 (0 | 1 10 |
| Rarley. | do | . 9 15 | U 77 |
| Oats | do . | 0 19 | 0 52 |
| Done | do | 0 75 | 0 80 |
| Rug | do | 0 63 | 0.63 |
| Wheat, fail, por Whoat, spring, Burley, Oat, Pear, Rye, Clover seed, | do | 0 00 | 0 00 |
| Drossed hogs per | tion the | 9 35 | 5 60 |
| Mutton, by carca | TA DAT TOO H | 18. | nouo. |
| Chickens, par pa | in | | 0 60 |
| Chickens, pur pa | 48 | 0.60 | ŏõ |
| Ducks, per pair. Geose, each | | 0 65 | ù 73 |
| CICOSO, ORCU | | 1 20 | 1 60 |
| Turkeys, cach Butter, pound re | ., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 4 27 | 0 27 |
| Butter, pound re | J11B | 0 21 | |
| Do, large rol | | " A 10 | nono. 0 20 |
| no, tub dair | y | 0 10 | |
| liggs, fresh, per | TOX | 0 10 | |
| Potstoos, por ba | ·K | . 0 7.5 | טָאָטָי |
| Apples, per bbl. | **** * | 1 30 | 2 75 0 20 |
| Onlone, perdez | **** ******* *** | 0 13 | 0 30 |
| Cabbago, per do | Z | 0 34 | |
| Jaulidower, per | | | |
| Colory per doz. | | | nono. |
| Tarnipa, per do. | | . " 0 ೨ಽ | 0 30 |
| Carrots, per doz | | 0 15 | 0 25 |
| Beots, per doz | ***** | 0 15 | 0 25 |
| Paranina nor ba | £ | | none. |
| Rhubarb, per de | ž. | 0 25 | 0 30 |
| Asparagra, per | doz | i 00 | 0 00 |
| Hay por tou | | . 43 00 | 25 00 |
| Hay, per tou Straw, per ton | | 8 50 | 10 00 |
| Wool, per lb | | 0 18 | ୍ 0 ସ |
| ., .,, ,, ,, ,, | | | |
| | | | |

The following is from the "Globe" of baturday on the cattle market -

There was only a moderate business done at the Western Cattle Market to-day. About 125 head of cattle were on the market. Two ex loads went on to Montreal for export. The prices for good cattle for export are still 6je., 6je., and 6c. Good butchers'

cattle are bought at 410 to 50; choice leasts a fraction dearer; ordinary, 8c to 40. There were a few sheep; good animals for export are 5c; for local consumption 41. Limbs were not in sufficient supply for the demand, and sold readily at \$3.50 to \$4.00, and beat animals at highest figures. Hogs are offering more fig. 1y; light and thin for feeding purposes bring \$5.00 for 100 lbs. live weight; better hogs, \$7.00 \$7.50. The market was generally cleaned out this morning, only a few beasts being left over.

LIVE-STOOK MARKET.

BUFFALO, Sept. 16, 1992

BUPPLO, Sept. 16, 1892.

Receipts of cattle thus far this week 12,076 local, against 14,953 to corresponding date last week; decrease 2,177. Shipments 11,971 against 11,980 last week; decrease 269. The offerings were fair to-day, but prices worn weak and easy. A hord of heavy shippers was taken by two New York buyers at \$8,00. Butchers took hold to some extent at \$5,00 to \$6,20 for good Kansas and Cherokee steem, and \$4,05 to \$4,70 for lighter weights of fair quality, a load of kansas cows and helfers bringing \$3.90. Veals firm at \$7.00 to \$7.50. The following sales were reported:—

| egres abto tobotrec: | | | |
|--|-----|------|---------|
| Soller. | No. | WL. | Price. |
| Ploiffer & Windsor Bros. Kan steers | 5 | 1029 | \$4.123 |
| Same, do do | 1:3 | 1263 | 5.00 |
| Same, do cows and heifers. | | 835 | J.80 |
| R. Enoch & Co., Cherokee. | | | |
| stoors | 19 | 1167 | 5.20 |
| Same, do do | 22 | 915 | 4.70 |
| Same do do | 333 | 922 | 4.65 |
| Hirsch & Ettlinger Ind str. | 49 | 1294 | U 00 |
| Same, do do | 50 | 1308 | 0,00 |
| | | | - |

Reccipts of sheep and lambs thus far this work 24,100 hoad, regime 13,000 to corresponding date last week; increase 10,000. Shipments 19,000 against 13,400 isat week; increase 6,400. The efforings ware quite moderate, all of which were sold at strong former prices, \$4.75 being paid for a load of good Missouri Sheep and \$6 to \$6.25 for Canadlan Lambs. The following sales were reported.

| Beller. | No. W | eight | Price |
|---|-------|----------|--------------|
| McDonough& Co., to Leach | . 303 | 93 | 8 .78 |
| Matheson to same, Ca | 196 | 83 | 6.27 |
| Same to N. Y.L. S. Ass'n o do Same to same, do do | IGG | 78 78 | 6.23 6.23 |
| A. Waddell to Roland, Ca | n- | 92 | 62 |
| Rice & Co. to N. Y. L. B. A | 8- | 75 | 6.00 |
| Stove to same, do comm | | 51 | 4.40 |

1008.
Recopts of logs thus far this week 23,040 head, against 23,750 to corresponding date last week, 10,119. Sulpments 21,275 against 21,375 last week; decrease 60. Owing to an accident on the Lake 8,80 or road trains were detained and theloff rings therefore light. The market was firm for good hogs but dulf for common, yet about everything was sold. Light to fair grassers brought 43,75c.47 25,500.4 to choice cern-fed Yorkers, \$4,00,488.50; and good butchers and medium grade, \$8,50,484.65 to \$8,75.

BY TELEGRAPH.

Montreal.

Montreal.

Sept. In. Flour-Receipts, 1,600 bbis; sales reported, 100 bbis. superior extra, \$2.00. 200 bbis. do, \$5.673; 200 bbis. extra, \$335; 100 bbis. do, \$5.43; 200 bbis. carra, \$335; 100 bbis. do, \$5.43; 200 bbis. Carrais urong bakers; \$6.10. Market quiet and steedy at unchanged rates. Stocks in store and in millers hands this morning—Wheat. 2227 bush; corn, 2,000 bush; pear. \$335 lush; coata, 307 bush; barley, do bush; dour. 2,435 bbis., catimeal, 70 bbis., cornmeal, 4 blis.—Questions—Flour-Superior, \$5.500 \$5.5; extra, \$5.30 to \$5.45; spring extra, \$5.3 to \$5.45 superior, \$5.500 \$5.5; extra, \$5.30 to \$5.45; spring extra, \$5.3 to \$5.55 auperione, \$1.75 to \$1.20; strong bakers, \$3.00 to \$0.60; inc., \$4.00 to \$4.05, middlings, \$3.75 to \$3.90; Pollards, \$3.40 to \$2.70; city bags, \$3.40. Grain—Wheat—White white, red winter, and spring, nominal, nothing doing; No. 3 Tolodo red winter sold at \$1.00; yesterday. Corn—Nominal. Pear—96. Oats 57\$ to \$4.25. Previsions—Butter—Western, 161to 184. Barley-85 to 56. Kyp-70 to 76. Oatmesl—\$4.05 to \$4.75. Cornmeal—\$4.25 to \$4.25. Previsions—Butter—Western, 161to 184. Barley-85 to 150. Kyp-70 to 76. Cathern Townships, 19 to 21c. Creamery, 21 to 22c. Cheese—10; to 11c. Pork—\$2 to \$25. Larl—15 to 1540. Hacon—14 to 150. anns—15 to 16c. Ashos—Pots, \$5.00 to \$6; pearls, nominal.

English Markets

The following table shows the top prices of the different kinds of produce in the Liverpool markets for each market dayduring the past week:—

| . • | Bept. 11 Sept. 12 | | Bopt, 13 | | | Sept. 14 | | Sopesk | | Hept. 16 | | |
|------------------------------|----------------------|----|----------|------|--------|----------|-----|---------|------|----------|---------|-------|
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| BWŁ. RWt Walto Club | ·3 | ō | 8.2089 | 0007 | 12 8 9 | 00037 | 089 | j | 0880 | 0000-0 | 433838C | 97911 |
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| Club | ٠, | 21 | 9 | 9 | 3 | 9 | Ş | 9 11 | 9 | 8 | 9 | 3 |
| Coru | 7 | 2 | 6 | 11 | G | 11 | e | 11 | ũ | 22 | 6 | 11 |

Park Farm. Holam

Sour Choice

Southdown Lambs of Choice Families For Salo; also Pure Bred COTSWOLD LAMBS; also several Choice SHORTHORN BULLE with Pedigree, Ship at short notice to any part of Dominion of Canada.

Apply to W. HOLDITCH,

Magnetawan P.O., Unt.

Canada usiness College Business

Latinfords thorough and practical business instruction to young mon. It is a superior Business College in all its appointments. The advantages of a business education are good. Sond for Circulars, etc., to B. E. GALLAGHER, Principal.

COUNTY RIGHTS FOR SALE,

CLOUD PAT. BRAKE PUMP



It pumps as case in deep as it does in shallow wells. It is a double acting Force Pump, the Iron Plunger working through Iron Purtition, there are no suckers to wear out. It is a good fire protection, and will force water through 250 feet or more bose on buildings. Ac. Has taken two diptomas and Bronzo Medals at Exhibitions. Address, ORPDON & ELLIS, or GEORGE MERRETT, Sinces, Cc. Norfolk, Out.



THE GREAT CURE FOR

And all complaints of a Rheumatic nature

RHEUMATINE is not a sovereign remady for "all the illa that iteal is heir to," but for NEURALGIA, SCIATICA, RHEUMATIM, and complaints of a Rheumatic nature,

IT IS A SURE CURE.

Testimontal from Mr. W. S. Wisner, of J. O. Wisner & Son, Manufacturers of Assignitural Implements.

DRAFTTORD Ont., July 28, 1880

J N. Suthorland, Tag., St. Catherines:
DEAR SIB.—I the pleasure in bearing testimony to the efficacy of your Rheumanio. Last spring I was ampletely disabled with Rheumatism, and truly various remodice, baths, Ac., and finally loard of your cure. I purchased and need even bottless of it, and it effected a complete even bottless of it, and it effected a complete even for I have not had a return of the discussince Yours truly, W. S. Wisher, R. Soldby all Druggists, and Wholesale end Retail by

The Rheumatine Manufacturing Co., No. 10 St. Paul St. St. Catharinos, Ont.

H. SELLS & SON,



Manufacturers of

Corn Ruskers, Cider and Wite Mills & Presses

Reflued and Cured Cider, and Cider Vinegar.

Send for Circulars and Price List.

55 Adelaide St., East,

TORONTO

EMPIRE Horse and Cattle Food

Used by the leading stock raisors. See their testiments in our Illustrated Almanac, with Produce Table for Live Stock, sent free on application.

-testinonials :--

Ontario Agricultural College, Guelph, June 20th, 1882.
To the Empire Horse and Cattle Food College, Sune Sons.—We have made a thorough tria of your "Empire" Food during the last two years, and can with confidence recont mend it to those requiring to tone up, top off, appetize, and generally in rigorate all kinds of live stock.

Yours, WM BROWN, Prof. of Agriculture and Farm Supt.

NORWICH, May 1th, 1882.

Norwich, May 1th, 1822.

D. A. Kirk, bruggist.

Dent Sir, During the past winter we have used several kinds of horse and cattle food in feeding our large stock of cattle, such as "Thoriev Improved," "Yorkshire," and "Empire" and we unbesitatingly pronunce hie "Empire" to be the best, after giving it an impartial trial, and would recommend it to all who keep live stock. One animal that was fed on the "Empire" Food gain 110 pounds in 25 days, or at the rate of 43-11 pounds per day. Yours truly,

A. J. STOVER & SONS,

Breeders of Shorthorn Stock.

Breeders of Shorthorn Stock.

Manor Farm, Gowan Station, May let, 1882.

Empire Horse and Cattle I cod Co., Mitchell, Out

(ISTLE JEN. - Yours of May let to hand. I thall be obliged by you sending me 330 lbs. more of your Food to Gowan Station. With regard to this article, having used it bota in this country and in England, I think I am justified in giving my opinion on the matter. I think it is quite equal to, and probably better than any other lood of the kind. My stockman here is well satisfied with it, and tells mothat its use is easily seen in the handling of the animals he feeds it to, and I am sure for myself that it is an article well worth using. Yours.

C. C. BRIDGES,

Shenty Bay P. O., County of Smeco, impersor and breeder of Hereford Cattle, Sbrorsbire, Down and Southdown Shoot.

Woodstock, Jan. 14th, 1882.
Gentlenin,—I have used your Empire Forse & Cattle Food for horses in my stables during the last fail. By horses, especially brood mares and colls, were very low following the last fail. Lave much pleasure in the particular of the partic

Importer and Breeder of Thoroughbrod Race Horses and Stallions.

STRATTOND, Ont., Juno 29, 1882. To the Empire Horse and Cattle Food Co., Mitchell, Ont.:

General Horse and Cattle Food Co., Mitchell control of our horses, when heavily driven, would sometimes lose its appetite. Now it is always roady for its food. Since using your Food our horses have done their work well, and kept in good condition. When in England, I visited the Thortey Hanufactory, and when viniting yours in Mitchell I could Lot help noticing the sameness, both as regards smell and appearance of the lugrodients used at both places and have every confidence that your Food is identical in all its essential ingredients with that which has caused Thortey's name to become a household word in England, and has given his ceiebrated food such a world-wide reputation.

I am yours truly,

W. F. SHARMAN, (Gedsby & Sharman, Matble Works, Stratford.

ERFECT SELF-GOVERNE

DOMINION ENGINE! WIND

(Patented June 3rd, 1882.)

POWE

ORSE

出 D



PALMER & SWEZEY.

NEW DURHAM.

Fruit Farm.

Partner Wanted.

A responsible active business man wanted as partner to engage in fruit growing on a large scale. The subscriber has a fruit farm at Fonthill, adjoining the "Fonthill Nurseries," which he wishes a partner to take hal, interest in.

The Farm is Well Located,

And his a large number of bearing fruit trees on it and a quartity of small fruit. Lars as a rare chance for a pleasant home and profitable fusiones. A PEMBERTON PAGE,

Room No. 1, Imader Building. TORONTO.

September 11th, 1852.



Sainte Anne, Ottawa River

Notice to Contractors.

Notice to Contractors.

SFALED Tenders, addressed to the undersigned and endersed "Tender for work at Ste Anne," will be received at this office until the arrival of the Esstern and Western mails, on TUESDAY, the 19th day of SEPTEMBER, instant for the excavation of a channel—principally through rock—in the bed of the river on the up-stream side of the new canal works at Ste Anne.

A plan, showing the vesition and section of the proposed channel and specifications of the work to be done, can be seen at this office, and at the office of the resident Engineer, at Ste. Anne, on and after FRIDAY, the 5th instant, where printed forms of tender can be obtained.

Contractors are requested to bear in mmnd that tenders will not be considered unless made strictly in accordance with the printed forms and—in essection—except there are attached the actual signatures, the nature of the occupation and residence of each member of the same; and, further, an accepted bank cheque for the sum of \$1000 m...st acc unpany the tender, which shall be forfeited if the party tendering declines to enter into contract at the rates stated, in the offer submitted.

The cheque or money thus sent in will be returned to the respective regrous whose tenders are not accepted.

A. P. ERADLEY, Secretary.

A. P. BRADLEY.

Dept. of Pallways & Canals, Ottaws, Sept. 5, 1882

Bees! Bees!

20 COLONIES of Bees for sale-Blacks, Hybrid and Hely Land. Apply to WM. KEMP, Carloton West, Ont

EXAll those interested in Bees send for my 20 page circular and pamphiet on win-tering bees (free).



My New and Latest Improved Hive My New unit Latest Improved Hire will soon be ready for the market. It contains the usual size and number of Jones frames. I now manufacture ten different kinds and sizes: Mnokers, and they are the most handsome, cheapeast and best in uso.

My New Honey Knife puts all others to shame, and is the finest and best that is in use.

My Latest Improved Honey Extracto

any Latest Improved Honey Extracto
has valuable improvements that no others
have. It is the chespest strongest, lightest
running, and best and most durable in
Any Comb Foundation
is made on an improved Dunham machine
and from clarified wax, and is better manufactured than any other. I will make up
wax into comb foundation cheaper and
better than others.

My New Silk Rec Vells

are used larger than any manipulations.

my Neto Site Ree Veils
are made larger than any previous ones, the
material having been ordered direct from
the manufacturer, specially designed for
bee veils. They have no equal.

I am the only one in America who manufactures Perforated Metaltor raising comb
honey, preventing swarming, controlling
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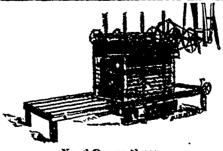
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The Canadian Farmer

WEDNESDAY, SEPT. 20, 1882.

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Dominion Grange Secretary's Notices

All matters of business connected with Grange should be addressed to Toronto, All matters connected with this paperto Drawer A., Welland, Ont. Patrons will confer a favor by keeping the Grange and newspaper business entirely separate as above.

Fatrons answoring or in any way corresponding with those advertising in these columns will oblige us by saying they saw the advertisement in these columns.

THE GRANGE AND MUTUAL AID.

The following letter from Bro. D. H. Thing, Worthy Master of Maine State Grange, to the Farmers' Friend, Pa., is well worth a perusal, and we commend it to the careful attention of our readers:

At this time of general interest in the Order let us see to it that we build for the future as well as enjoy the present. To insure permanence and stability we need to feel our mutual dependence and our personal responsibility to realize that we, as individ-uals, are a part of the great army of Patrons which is to subdue the earth with plowshares and pruning-hocks. We need to feel that while we are to a certain extent dependent upon others, others have claims upon us, and that neither can be ignored with safety. meither can be ignored with safety. How can this bond of union best be created and strengthened? Our Doclaration of Purposes is the grandest paper in the English language; its principles are sublime; its sentiments challenge criticism; its claims right and just. Our Ritual is calculated to allowed the mind and broaden the inclosete the mind and broaden the in-tellect, and every step of our journey from the unbroken forest to the quiet

of home in the science evening of life is filled with instructions. Careful and persevering heed to all the lessons taught will help us to provide for the present and do much to insure comfort n the future. But they do not annul the laws of mortality. We are passing the laws of mortality. We are passing away. Husbands and wives, parents and children, brothers and sisters are continually dropping out and survi-vors are left to continue the battle of life alone. Our Order is composed of farmers; as a class we are not rich. We do far more to enrich others than ourselves. We do well as a class to provide for those dependent upon us to educate our children, fill our place in Society, keep our surroundings in good shape and meet the demands of the tax gatherer. But few of us can accumulate a surplus, and yet the contingencies of the future await us. How shall they be provided for!

Right here comes in the real benev olence and fraternity of the Order, and gives us the opportunity to divide our burdens and share our good and ill fortune. The Patrons' Mutual Aid fortune. The Patrons' Mutual Aid offers us just what will meet the emergency. It is no lottery, no game of chance, does not offer us something for nothing, is not a game where one must die to win, but is just a mutual affair, a bearing of one another's burdens. We may be hale and hearty now and in need of nothing, but sickness and death will come sometime. Doctors bills, nurses, undertakers, prohate courts, hired help, headstones and all the extra expenses attending the experiences through which all must pass, come when we are least able to hare them. Now, my brother, let me suggest that you become a member of the Mutual Aid, and also make your wife a member if you are fortunate at to have one; that your policy be payable to her and hers to you. That is all there is of it. By and by a member dies. You are called on for one dollar. Respond promptly in the goodness of your heart to aid a distressed worthy brother or sister, and get your pay as you go in the good feeling a generous act produces, and you will feel the assessment only as a pleasure; and by and by when the same terrible cx periences overtake you, a few hun-dren dollars will come to the dear once left behind at the very time when it is most needed. There, that is mutual aid, all there is of it. No high salaries, no costly offices, no travelling agents; all is fair and above board, everything honest and equal, and spread out so as to be easily borne and sure in all results. So simple that it would seem that no argument is needed to show the economy and pre-codence of the operation. Mr. Editor, when I look the whole matter over I am surprised that all farmers farmers' wives and farmers' sons and daughters are not Patrons; and I am more surprised thatall are not members of the Patrons' Aid. But the world moves slowly. Farmers have so long trodden out the corn for others that they have come to think no man unselfish or honest; but the truth is being apprehended. Our Order is at tracting increasing attention; our aid societies are increasing in members; our Grange papers are obtaining a wider circulation; farmers are talling, feeling and acting more independently; party whips are losing their terror, and all indications point to a more healthful public sontiment; and

no influence has contributed more largely to this result than the Grange press. May the people be wise and sustain it.

Fraternally,
D. H. Thing,

TEXAS STATE GRANGE.

The following extracts are taken from the able address of Worthy Master Rose, delivered before the lexas State Grange, Aug. 8, 1882:

CO-OPERATION.

We apply this term to all Grange work, for without united effort the Grange would never have been organized; little can be done unaided and In every plan adopted by the Grange for the promotion of its members, each one must contribute his or her part or else lose the benefits to be derived. It is not expected that every one can do the same work— each is litted for his or her sphere yet all can help in extending its princi-ples and benefits. As the social, moral and educational features are dependent upon the business feature, to a great extent, it becomes necessary to ancourage financial co-c peration. We believe the credit system to be demor-alizing, tending to make mankind lose confidence in each other, and also to lessen their opinion in their own abil-ity to do. We are clearly of the opinion that the credit and mortgage sys-tem is one of the greatest curses that a people ever permitted to fasten up-on them and all just means should be used to eradicate it. Who can be sociable with a heavy debt hanking over them? or how can we educate our children sithout the means? Co-operchildren without the means? Co-operation has a code of laws and principles which, if put into practice, will stimulate and arouse to greater action each participant, thereby increasing self-confidence. We know of no increasing the self-confidence of the constitution self-confidence. We know of no in-stance where the laws of co-operation have been complied with, where businees has not been a success. This feature has done much to build up the Order in Texas. The co-operative members have carefully considered the interests of the Grange, that no move should be made which would detract from or weaken its interests, but give it strength, by requiring all who became directly interested to keep up their good standing in a Subordinate Grange. This feature has proved to be of far more im-portance to our Order than was at first admitted by some of our members. The farmere being in direct business communication with the commercial world, their enlightenment upon this subject was of vital importance. The thought that has been awakened among our people by discussing this question has proved of much value to them. The practical lessons here taught have induced greater effort to disseminate the business principles among the Subordinate Granges. among the Suppromate Granges.

Knowing that it takes springs, rivulets and rills to support a river, it was easy to determine where to start our commercial enterprises. That, as it takes springs to keep up the flow of a river, so it takes local stores to keep up the flow of a river, so it takes local stores to keep up the flow of a river, so it takes local stores to keep up the flow of a river, so it takes local stores to keep up the stores up and statain a wholesale purchasing agency. In 1876 it was decided that enough of these fountains had been started to establish a wholesale purchasing accury. This was done, which has more than met the expectations of supporters. These fountains have continued to burst out in different portions of our State until they now number more than one hundred, which continues to increase the agent's facilities for buying and selling. With proper care this movement will prove of incalculable value to the producers of this country. Wherever an effort has this country. been made in commercial co-operation its influence for good to the masses has its influence for good we are made been admitted, even by those who are not taking a direct interest. Every safeguard has been thrown around this and the local stores, to insure pro-

tection to all who entrust their busior money in their channels. When full protection has not been provided, the fault is with those who inaugurated and managed the business, and not in the general plan. We would not have the State Grange do more than give such endorsements as its merits demand, this would strengthen its influence with the Order, the success of which will continue to assist an building up the Grange. Co-oper-ation, with gigantic strides, moves safely and quietly over the land, as the dews of heaven, dispersing wide its blessings alike upon all mankind.

AGRICULTURE.

It is stated that the prosperity of a nation is in proportion to the value of its production. This would argue that the farmers of the South were the most prosperous people on the globe, producing her six or seven millions of bales of cotton per annum, worth at a home market over three hundred millions of dollars. But upon investi-gation, we find it takes over half of this to furnish supplies, and most, if not all of the remainder, to pay for labor and taxes. It is estimated that the South has paid the last season over two hundred millions of dollars to other sections for wheat, corn, oats, bey, mest, butter, cheese, potatoes, &c.
This neglect upon the part of producers to provide for the necessaries of life for the productions of a crop that under the present management of growing gathering, marketing there is but little or no profit on, and often produced at loss, is one of the reasons why agriculture in the South is trailing in the dust. Shall this state of things exist?

It has been urged by the organization of Patrons of Husbandry from its inception that an equal, uniform, ad-hesion to mixed husbandry, would add greatly to our prosperity. Patrons of greatly to our prosperity. Patrons of Texas, shall we continue to proclaim these important truths until they are these important truths until they are generally complied with. We certainly fail to see the opportunity that is within our reach. Cotton is taxed on every hand, why then raise so much (?) just enough to supply the demand is all that is necessary; this could be easily calculated. Then by concert of eaming calculated. Then by concert of action, a just reward for labor expended could be secured. Your duty is apparent, will you act wisely? Let all continue to impress the necessity of home production for the necessaries of life, and make our cotton the surplus crop.

WOMAN IN THE GRANGE

Ours is the first organization to re-ceive the weaker sex (so-called) into full membership. We acknowledge the foresight and wisdom of the noble the foreight and wisdom of the hobbe brother who perfected he work of Rit als, in giving equal prominence to the degrees for our wives and daugh-ters, with those for ourselves, and in the offices assigned to them clevating the offices assigned to them clevating them to their true position—goddesses among men. For both of these they have shown their appreciation, in their efforts for the welfare of the Order. In every idea advanced for the promotion of our interest, we find the Matrons eager to contribute all in their power to forward the good work. Noble descent, high culture, and clegant surroundings, may or may not be, but she is true to herself in any and every position. Sincerity, benevolence and the charity which vaunteth not itand the charity which vaunteth not itand the charity which vaunteth not it-self, are her watchwords; such women we find in all the walks of life, and es-pecially in the Grange. A blessing and a joy are they to it; without such gentle spirits, men would retrograde on the highway of civilization. The Grenge is the only organization, ex-cept the church, where the wives and

daughters can accompany their husbands, fathers and brothers, and when we consider the mighty influence which women exercises over, we should who is not lost to all feelings of hu-manity but will restrain himself in their presence. Let a man be ever so wicked, yet in the presence of ladies he will bridle his tongue. Then, if woman possesses in herself so wonderful a power over man; if she possesses such an influence to keep men in the path of rectitude, what man is there who is unwilling for her to be-long to the Grange, which was wisely organized for her benefit as well as his. I have one with, one strong desire, and that is, to see the wife and daughters of every farmer in our Empire State coming into the Grange; then would there be a most glorious prospect in view for the agriculturist; then the young would flock to the Grange halls and join in the noble effort to elevate the standard of the farmer of the country; there would be no talk of the lukewarmness among our members, and such a thing as a dormant Grange would never be heard of, and the agricultural horizon would brighten and abine as if ten thousand electric lights were burning. My sisters, as Samuel Isham has said, the destiny of this country and of the whole nation, as well as the Order of Patrons of Husbandry, rests with you; will you sit idly by and not help extend its principles? I can not, I will not believe it. When you rise up in not believe it. When you rise up in the morning, let your prayers second on high, in behalf of a country which on high, in behalf of a country which is fast being carried by political hate and trickery into the vortex of destruction; let your prayers ascend as holy incense in behalf of the farmer's cause; and then we shall be blessed; with bountiful harvests, and whom called to lay down our implements on carth, we shall enter into that Grange above and receive the welcome plaudit, "Well done, good and faithful servauts."

THE GRANGE.

The Grange is a society of farmers, having for its object the advancement of farmers' interests, socially, intellectually and financially, and by its influence to clevate and dignify his calling; to afford our farmers an appropriate means for social entertainment of the control of the contr ment and intellectual improvement to afford an opportunity for cultivating the mind while cultivating the soil to place within the farmer's reach the benefits of mutual understanding and united effort; to overcame, through our frequent meetings, the natural isolation common to farmers' lives; to strengthen our attachments to our purmits— particularly among the young—by making our occupation more agreeable and our home aurroundings more attractive, by showing them there is something to live for besides drudgery and toil; that there is the properties of the control of the is time and opportunity for social en-joyment and intellectual improvement; that there is an opportunity to rise to position and honor in the country while holding the bandles of a plough. It is designed to bind the farmers together in a fraternal union; to encourage education amongst them, and thus advance to a higher state of perfection the science of agriculture; to clevate and dignify labor, thus pro moting the happiness and exalting the position of the laborer, and by a united effort and business-like management of our affairs, to reap more fully the just rewards of industry.

teachings of which are appropriate, pleasing and instructive. None but pleasing and instructive. members are admitted to our meetings, or to a knowledge of our busiuess transactions; this, not because we are ashamed of what we are doing, but in order to better carry out the objects we have in view, to secure unity among our members, and a feeling of confidence, harmony and security." It is not a political or party organiza-tion; it being reserved as the right of every Patron to alliliate and support that which will best carry out his principles. We prohibit the discussion of political questions in the C ange room; yet we assert that it is the duty of every citizen to take a proper interest in the politic, of bis country, 'It is his duty to do all he can for his own party, to put down bribery, cor-ruption and trickery, and see that none but competent, faithful and houest men, who will unflinchingly stand by our interests, are nominated for all positions of trust; and to have carried out the principle which should always characterize every Grange member— that the office should sele the man and not the man the office."

The Grange exerts no party, politi-cal, or sectariar influence, every mem-ber being allowed freedom of politi-cal opinion, as well as religious views.

${\it Entomological}.$

INSECTS INJURIOUS TO THE OAK.

The seventeen-year locust, one of the insects which is more particularly injurious to the oak tree, is in many respects a peculiarity. The description will be interesting. It is designated by naturalists as the Cicular Septemberin, and is the order HEMP-TERA, family Cicadani 1.

It stings the terminal twigs of the oak and other forest trees and of various fruit tree, and deposits its long slender eggs in a broken line along the

Without attempting to recapitulate the history of this famous in eet, we would only lay that the eggs are deposited from the end of May through posited from the end of May through June (Fig. 9, $d_{f,i}$) in pairs in the terminal twigs of the eak, &c. The larva (Fig. 9, f_i) batch out in about six weeks after they are deposited, and drop to the ground, in which they live, sucking the roots of trees, &c., for nearly seventeen years, the pupa state (Fig. 9, a_i , b_i) lasting but a few days

days.
The following remarks on the habitof this insect are taken from the Third Report on the injurious insects of Massachusetts:

As regards the kinds of trees stung by the Cicada I may quote from a communication from William Kite in the American Naturalist, vol. ii, p. 442 as confirming and adding somewhat to Dr. Harris's statements: "Seeing in the July number of the Naturalist a request for twigs of oaks which had been stung by the so-called seventeen-year locust, I take the liberty of sending you twics from eleven different varioties of trees in which the females have deposited their eggs. I do this to show that the insect arems indifferent to the kind of wood made use of as a depository of her eggs. These were gathered July 1, in about an hourstime, on the south hills of the 'Great Chester Valley,' Chester Co., 1's. No doubt the number of trees and bushes might be much increased. The female in depositing her eggs, seems to prefer well-matured wood, rejecting the growing branch of this year, and using the last year's wood and frequently that of the year before, as some of the show that the insect accus indifferent The Grange is a secret society, having pass-words, signs, &c. "Its meetings are governed by a Ritual, the which I visited was so badly atting

that the apple trees will be seriously injured, and the peach trees will hardly survive their treatment. Instinct did not seem to caution the animal against using improper depositories, as I found many cherry trees had been used by them, the gum exiding from the wounds, in that case sealing the eggs in beyond escape.

"The males have begun to die, and

are found in number, under the trees the females are yet busy with their pe-culiar office. The length of wood perforated on each branch varied from one to two and a half feet averaging probably eighteen inches; these seemed to be the work of one insect on each twig, showing a wonderful fe-

"The recurrence of three "! scustyears' is well remembered in this locality-1834, 1851 and 1868. There ha been no variation from the usual time, establishing the regularity of their periodical appearance.

As regards the time and mode of hatching, Mr. S. S. Ruhvon, of Laucaster, Pa., contributes to the same journal some new and valuable facts, which we quote: "With reference to

seventeen-year broads may be said to belong to the Northern and the thirteen-year broads to the Southern States, the dividing line being about latitude 38°, though in some places the seventeenyear broad extends below this line, while in Illinois the thirteen - year broad runs up conthe eggs and young of the seventeen-

Cracks and pupa or b , d position of eggs(e) f_s farva. $-\Delta f$ ter Reiliy.

year creada, your correspondent from Haverland College, Philadelphia, is not the only one who has failed to produce the only one who has latter to produce the young by keeping branches containing eggs in their studios. I so failed in 1854 and 1851, and indeed I have never heard that any one has succeeded in that way, who has kept them for any great length of time. In the broad of 1865, the first cicids appeared here in a hody on the evenappeared here in a body, on the even-ing of the second day of June. The first pair in colla, I observed on the 21st, and the first female depositing on the 26th of the same month. The first young were excluded on the 5th of August. All these dates are some ten days later than corresponding observations made by myself and others in former year. On the 15th of July I cut off some apple, pear and chestnut twigs containing eggs, and stuck the ends into a bottle containing water, and set it in a broad, shallow dish, also and set tight a broad, snamed than, also out of doors exposed to the weather, whatever it might be. The young continued to drop out on the water in the dish for a full week, after the date above mentioned. I could breed no cicadas from branches that were dead and on which the leaves were withered nor from these that from any cause had fallenges the ground, and this was also the case with Mr. Vincent Bernerd, of Kennet Square, Chester Co., Pa. Af-ter the precise time was known, fresh hranches were obtained, and then the oung cicadas were seen coming forth

in great numbers, by half a dozen observers in this county. As the fruit-ful eggs were at least a third larger ful eggs were at least a third larger than they were when first deposited, I infer that they require the moisture contained in living wood to preserve their vitality. When the proper time arrives and the proper conditions are preserved, they are easily bred, and indeed I have seen them evolve on the palm 2f my hand. The eyes of the young cicades are seen through the egg-skin before it is broken."

Mr. Riley, in an interesting account of this creads in his First Annual Re-port on Noxious, Beneficial and other insects of Missouri for 1869, has thirteen-year broods of this insect are found. He remarks: "It was my good fortune to observe that besides the seventeen year broods, the appearthe seventeen-year broods, the appearance of one of which was recorded as long ago as 1633, there are also thirteen-year broods, and that, though both sometimes occur in the same States, yet, in general terms, the seventeen-year broods may be said to his the same that the same that the seventeen and the thirteen are also thirteen.

> brood runs up conaiderably beyond it. It was also exceedingly gratifying to find, four mouths after I had published this fact, that the same discovery had been made years before by Dr. Smith, though it had never been given to the world."

> world."
> Mr. Riley predicts
> that in Southern
> New England a
> brood will appear in
> 1877 and 1885.
> Probably the Plymouth brood, which appeared in 1872,

appeared in 1872, will not appear again for seventeen years, namely, in 1889, the two broods noticed by Ruley appearing west of this town. As regards its appearance in Plymouth, Mass., Harris states that it appeared there in 1633. The next date given is 1804, "but, if the exact period of seventeen years had been observed, they should have returned in 1803."

Mr. B. M. Watson informs me from

Mr. B. M. Watson informs me, from his personal observation, that it also appeared in 1838, 1855 and 1872. In Sandwich it appeared in 1787, 1804 and 1821. In Fall River it appeared in 1834, in Hadley in 1816, in Bristol County in 1784, so that, as remarked by Harris and others, it appears at different years in places not far from each other. So that while in Ply-mouth and Sandwich we may look for its reappearance in 1889, in Fall River it will come in 1885, or four years carlier.

There are three species of Cicada in the Northern States, and, in order that they may not be confounded in studying the times of appearance of the different broods of the seventeenyear species, I aild a short description of each form, so that they may be readily recognized in the winged and immature states.

The two larger species are the seven-teen-year locust (Occida septemberin) and the dog-day cicada (C. pruissen). Fig. 9,copied from Riley's report, gives

Continued on page 46.

LITERARY.

DIRECT FROM JAPAN.

"I never was so disappointed in my life," said old Miss Beckley, letting her eye-glasses drop hoplessly at her side. Are you quite sure, Belinda?"

"I've been everywhere," said Miss Belinda Beckly, the younger of the two maiden ladies. "Everywherel and there is nothing that corresponds with it in the least degree," the two Miss Beckleys looked at each other despairingly. And if one had been gifted with a fertile imagination, it would have been easy to fancy them a pair of elderly enchantresses in the midst of a magic pulace. For the midst of a magic palace. For the quant, low ceited drawing rooms were filled with jointed hamboo screens. filled with jointed hamboo screens, carved masses of ivory hideous paint ed ware, and tiny cups and saucers as transparent as to many egg shells, and by way of finishing up the har-monious whole, they had hung their monious whole, they had hung their walls with drapperies and banners, with wrinkled crape encircled with gold thread, lustrous satin, brocaded tapestry, even strips of gilded paper, where Oriental plants blossomed, and phenomenat tirds set all one's preconceived ideas of prespective at deflance. And a faint perfume of teak and sandal wood hung on the air, and dingy rugs blotted out the harvest roses and tulips of the carpet, which had been good enough for the half pay Captain who had once been uncle to the two Misses Beckley, and it only required a ceffee colored native with required a ceffee colored native with wooden shoes and a braided queue to make one believe one's self in the Flowery Land.

"Japanese, you see," the two old ladies would say, looking complacently natics would say, looking complacently at the astounded guest who had tumbled from an atmosphere of newly fallen snow and New York sun shine into this half lighted, strangely scented moasic of the Mast—"entirely Learners"

tirely Japenese.

But life is not without its shadows, and upon the especial evening, as the nephew and heir apparent of the old ladies, one Frank Franklyn, sauntered in just as the deffodil gold of February twilight was turning to hazy purple, twilight was turning to hazy purple, he found both his aunts plunged into the deepest abysses of gloom. Mr. Franklyn looked from one to the other of the weird and agitated faces. He knew that Aunt Mananda's cap was never tipped at that angle over her false front except when matters were very bad it '2ed, and Aunt Belidna leaned against the mantle in an atti leaned against the mantle in an atti

tude of deep despair.
"What is the .m.tter?" he asked set ting his hat on a lacquered tripod in one corner, and briancing his cane in the angle of the wall, behind the stuffed ibls, whose speculative eyes seemed to glare at him from the partial shadow, after a most uncomfortable

fashion.
"Look there frank!" solemuly untered Miss Beckley, pointing with her crooked gold-headed cane to the opposite wall.
"Beautiful," said Frank at a venture.
For he same only a long market. fashion.

For he saw only a long narrow paralborder of black satin mounted on a border of glimmering brocade, with a background on which a pensive stork wandered through waves of lead colored embroidery, and beneath the

colored embroidery, and beneath the elivergreen shadow of sacred palms. "Isn't it:" said Miss Belinds, her renerable face lighting up again with momentary satisfaction, only to darken again into gloom "But, oh' Frank we haven't got a match for it."
"Not got a match for it."
"There is nothing nothing," cried

"Not got a match for it."
"There is nothing nothing," cried
Miss Beckley tragically lifting her
hands, "in all this room that is fit to
hang on the other side of my dear
grandfather's portrait."
"Why," said this reckless income

Why," said this reckless inconec last, "I should say that almost any-thing would do."

The two old ladies uttered a simult-

aucous cry of dismay and horror.
"Frank," reasoned mild Miss Beck
ley. "you don't understand high art,"
"You're a dear good hearted fellow," added Miss Belinda, with that degree of charity wherewith a missionary may be supposed to regard a well in-tentioned cannibal "and in a knotty point of law I don't suppose you have your equal. But you see you are not sesthetic."

"N—no," confessed Frank, rubbing his nose, "perhaps I am not. But why don't you and Aunt Marinda go down

to the stores and match the thing?"
"We have tried," said Miss Beckley.
"It can't be done," added Miss Beckley, with a sigh.
"Give it 'o me" said Frank who was great at an emergency. "I'll take it "I'll take it great at an emergency. "I'll take it down with me to-morrow. There's a new place open near the docks, where they pretend to import novelties. Tado Anoko, I believe is the name, painted up over the door. Probably the concern is kept by an Irishman, with a staff of German clerks. But I've seen some mee things out at the door. Perhaps I can obtain some door. Perhaps I can obtain something to suit you there."

"O, Frank, if you only could," cried Miss Belinde, clasping her mit-

iened bands.

"At all events its worth the trial," said Miss Beckley cheering up a little. "Tado Anoko! That is quite a new "Tado Anoko! name.

So Mr Franklyn, on his way to the legal Mecca of Waitstill & Lingerlong, the next day stopped at the newly painted and gilded establishment at Tado Ancko, where a plump red whiskered man, who spoke excellent English (with, perhaps a redundancy of hs), placed himself at his service. togteher they unrolled the ivory mounted banner, and viewed the stork and the palms and the wonder-ful needlework wares of the Kyusi River

"Very sorry," said the superintendent' as he called himself, of Tado Anoko's bazar, "but I don't suppose sir—I don't indeed—as you'll find anything to correspond with this 'ere piece of 'igh hart. There never was but a few of them imported. And they'er all bought up. Law bless you sir, the gentry they will 'ave 'em at heav price'."

hany price."
A plump fresh colored old woman, the salesman's aunt, who had been arranging palmical fans on a gigantic screen at the back of the store now

came forward, peeping at the satin seroll over her nephew's shoulder.

'It's quitd true, sir, what Simpson says," pronounced she. "I know those banners. There ain't one to be had in the city. Praps our house may import some more for the holidays: but--

"Call Alva Graves," imperiously interrupted Mr. Simpson. She knows a deal about the stock. She can tell

Alta Graves was summoned—a pret-; pink-cheeked little damsel, with hair brown and shining like a newly ripened chestnut, and dark eyes which she searcely ventured to lift from the floor. "O, yes," she assented, in an innocent, birdlike sort of voice, she had seen those banners. But there were none at present remaining in Tado Anoko's store of imported no-velties. Unless, indeed, the gentle-man would take a fine quality of pa-

man would take a line quality of pa-per, mounted on linnen-But M: Thirdlyn shook his head, paper would not meat the views of the ladies in whose behalf he was con-ducting the investigation, he said. The banner must be of sain of the same black color, embroidered in a corresponding pattern. He was sorry for giving so much trouble, and he went out, leaving his card, so that in case any new vein of banners or decorations should be struck at the eleventh hour, he might perchance, get the be-nefit of it,

Three days afterward, just as the office hands of the regulator were consolidating themselves at the figure twelve, and the bells of the old Trinity church were pealing their musical noon jingle, there came the smallest of tap taps at the outer door of the firm of Waitstill & Lingerlong, in which Mr. Frank Franklyn was a silent partner. And there stood Alia Graves rosy and palpitating.
"Why," exclaimed Mr. Franklyn, trying to locate the fresh, blooming

face in his mind, and associating it eddly with Chinese monsters, mammoth chests of tea, and a curious odor of fresh matting and sadul wood fans, "it's the young lady from Tado Anoko's place, isn't it?"

And Alta made a little courtesy, and answered, breathlessly: "Yes, please." answered, breathlessly: "Yes, please."
Mr Franklyn graciously bade her
enter. Mr Waltstill was at his lunch,
and Mr. Lingerlong was in the back
office, arguing with a dusty old client
who beheved himself a better judge
of law than Blackstone, so that the
coast was clear. What on earth did
she want of him? he asked himself.
Had the tirm get, into a lawsuit and Had the tirm got into a law-uit, and had she been sent to hid his immediate presence on the scene? Or was sho herself about to sue her principals for

"Can I be of any service to you?"
he courteously asked, as she stood there, still breathless, and turning

from pink to pale.
"Would you please look at this, sir, and see how you like it?" said she, hurriedly unrolling a little parcel which until now she had carried in

her hand.

It was a long strip of black satin, It was a long strip of black satin, with a scarlet plumed ibls wading through white silk deeps of water, with the sacred Mountain Fusiyama rearing its peak beyond, while in the foreground waved a picturesque taugle of reeds and rushes.

"The very thing" exclaimed

The very Franklyn.

"But it isn't mounted."

"Almost any store will do that for you, sir," said Alta, her check brightening into still deeper carmine as his evident satisfaction.

evident satisfaction.

But why didn't you show me this the other day?" he questioned.

"I—I hadn't found it then," auswered Alta, in some confusion.

"And what is the price?" Mr. Franklyn asked, putting his hand in a business like way into his pocket.

Here again pretty. Alta seemed to

Here again pretty Alta seemed to be puzzled. She didn't know, she said. Could the gentleman tell her the price of the other one?

It was \$10, Mr. Franklyn be-lieved.

"Then," said Alta, speaking with an evident effort, "would you think this too dear at \$\$, seeing that it isn't mounted?"

this too dear at \$8, seeing that it isn't mounted?'

"I should consider it a very fair price," said Mr. Franklyn. kindly. And he paid her the money—a gold half eagle and three crisp, clean \$1 bills; and she vanished away down the long hall like a little gray shadow.

"What a fool I was," thought Mr. Franklyn suddenly rousing himself from a reverie, "not to ask her to take it to Anoko's, to be mounted on ivory' And now I shall have to go round there myself. Very stupid of me: but then I often am stupid. But how pleased my aunts will be, bless their dear old hearts' And what a wonderful pair of limpid hazel eyes that little girl has got"

And all day long Alta Graves' sweet pea face came between him and the dusty pages of his prosy law books, like a vague dream of what might have boen, had alte not been a shop girl and a c a bachelor close on the forties.

He went home early, and on his way he stooped at the catablishment

He went home early, and on his way he stopped at the establishment of Tado Anoko.

Mr. Simpson uttered an exclama-tion of amazement at the sight of libis

and the sacred peak, Fuslyama. "Well, I never!" cried he. "Aunt Sarah, look 'ere. Where on earth did you get this 'ere, sir, if I may make so bold as to ask? for I didn't know, I give you my word of honor, as there was one like it in the city."

It was now Mr. Franklyn's turn to open his oyes, "The young lady whom you call Alta Graves brought it to me," said he; "and I supposed, of course, that you had sont it."

"Alta Graves!" repeated Mr. Simp-

son. "Our Alta!" shortly poke Miss

Surah.
"Then as sure as my name is Sarah and out "Then as sure as my name is Sarah Simpson, she have stole it—and out of our rery stock. And she knowed of all the time, the ungrateful mina, while we was aturning over hevery thing to find a match for the banner that you brought here. And you paid her, you say, sir? Her?"

"I certainly did, "said Mr. Franklyn.

"I certainly did," said Mr. Franklyn. becoming more and more puzzled and uncomfortable. For as to the ovalfaced little maid with the liquid brown eyes being a thief, he did not believe a word of it.

"Very well," asserted Sunpson. "this settles the 'ole haffair. There can't he no doubt, about it now for

"this settles the 'ole haffair. There can't be no doubt about it now; for she 'ave never paid us the cash for this 'ere satin banner." "I always suspected she wasn't reliable," said Aunt Sarah, slowing wagging her head to and fro. "She sa deal too good looking. I never had any faith in good looking shop girls myself. Didn't I tell you so, Simpson?" son?

And Alta Graves, who was unpacking a hamper of cups and saucers and fantastically patterned plates down in the moldy basement, was promptly summoned up by the mouth of an

summoned up by the mouth of an eager, panting errand boy. She came, coloring and a little ab shed, but pret tier than ever.

"Young woman," uttered Suppson, majestically, "what does this mean?"

"Confess at once, you base, unprincipled girl!" said his aunt.

"Look here, Miss Graves," spoke Franklyn. "I'm awfully sorry to startle you so, but there seems to be something wrong about your sale of this banner to me."

"There is nothing wrong, "said Alta

"There is nothing wrong," said Alta

quietly. "I did sell it to you."
"And where did you get it?" sternly demanded Aunt Sarah. "Confess base girl, that you stole it. Prevarications won't do here."

tions won't do here."
Alta's cheeks crimsoned; her eyes blazed with sudden brilliance.
"Never stole it," she cried. 'Do you think I am a—thief? O Mrs. Simpson, how can you be so hard on me, a friendless girl? I made the banner myself. I bought the satin and the embroidery silk, and the gold ner mysen. I bought the sain and the embroidery silk, and the gold thread, out of my savings, and I sat up two nights to embroider it, so that I could earn a little more money than a could earn a intic more money than the poot wages you pay me to buy wine and fruit for my mother, who lies home dying of consumption. There! If that is being a thief, I stand condemned."

And here work that disminst

And here poor Alta's dignified

And here poor Alta's dignified bearing gave way all at once, and she burst out crying like a child.
"Don't fret, my dear," soothed Aunt Sarah, who was a kind hearted woman, in the main. "It's a misun derstanding, that's all. Don't fret." "It's a very good himitation of the Japanese style—very, remarked Mr Simpson, closely scrutinizing the gleaming lines of embroidery. Really, Alta Graves, I think you 'ave genius." genius.

"Pray forgive me for my blunder-ing awkwardacss," said Mr. Frank-

And Alta tried to smile through her tears and said that she would. She was ashamed of having made such a scene. The whole thing was a matter scene. The whole thing was a matter of no consequence whatever. The satin banner was lined and

mounted and Mr. Franklyn took it to mounted and Mr. Franklyn took it to his aunt's, who could recreely be cestatic enough in its praise. It was a gem of beauty, a marvel of art. Such a thing could never, nover be forgotten up anywhere but in Japan. And it was so good of Frank to find it for them, after they had secured the highways and byways in valu. The love of an ibis! And that exquisite Sacred Mountain! They never could thank their nephew sufficiently.

Mr. Franklyn went the next day to see Alta Graves' mother, on the

Mr. Franklyn went the next day to see Alta Graves' mother, on the dreary top floor of the ten-ment house where the uncompromising sunshine that poured through the curtainless window revealed every flaw in the plastering, every mildewed stain on the colling. He came home grave and reflective.

"Aunt Belinda," he observed, "you said the other day that you were not intending to use your seaside cottage at Asbery Park this year?"

"Not if we go to the mountains," said Aunt Belinda, looking up in surprise; "and I believe that that is our plan."

"May I borrow it of you?" asked

"Borrow lt?" repeated Aunt Belin-

da.

And then Frank opened his heart, and told them all—about pretty Alta, with the limpid; about the pale invalid, with the two little girls who played at cat's cradle so quietly at the foot of the bed, and hushed their baby laughter so as not to disturb mamma; about the hand to hand contest with want and disease, in which the sick woman was getting so sorely worsted. worsied.

test with want and disease, in which the sick woman was getting so sorely worsied.

"She shall have the cottage," sa Aunt Belinda, enthusiastically.

"And I will send my own maid down to make it all comfortable for her as soon as the month of May comes," added Miss Beckley.

And so, perhaps, the old ladies were not so much amezod in the autumn, when they heard that their nephew Frank had engaged himself to marry Alta Graves. She was very pretty, that was certain, and men like pretty faces; and also they knew she had been very good and dutiful to her poor mother who had just been laid under the yellowing autumn leaves. And if Frank was determined to marry, he couldn't do better, they thought, than to marry Alta Graves. But there was thing which Frank never told them, nor did Alta, his wife. And that was the secret of the embroidered hanner. And to this day the old ladies point it out to their aesthetically minded visitors with conscious exultation, and say, with many twists and wags of their venerable capstrings:

"Imported, my dear. No, of course you can't get anything like that, because it came direct from Japan."

"Oughth't we to tell them Frank, dear!" whispered Alta. And her husband answers:

"No, dear no. It would only be breaking an illusion. Don't you see how much happier they are in believe that it came direct from Japan."

Never insult a milkman by asking him what watering place he is going

Never insult a milkman by asking him what watering place he is going to this summer.

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Mesers. Editors:-

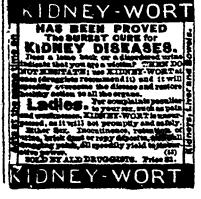
Mesars. Editors:—

The above is a good likeness of Mrs. Lydia E. Pinkham, of Lynn, Mass., who above all other human beingsmay be truthfully called the "Dear Friend of Woman," as some of her correspondents love to call here. She is zealously devoted to her work, which is he outcome of a life-study, and is obliged to zoep six lady assistants, to help her answer the large correspondence which daily pours in upon her, each bearing its special burden of suffering or joy at release from it. Her vegetable "ompound is a medicine for good and and evil purposes. I have personally n earligated it and am satisfied of the truth it his.

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INSECTS INJURIOUS TO THE OAK.

(Concluded from page 43.

a good idea of the former species: a represents the pupa, b the same after the adult has escaped through the rent in the back, c the winged fly, d the holes in which the eggs c are inserted. Fig. 9, f represents the larva as soon as hatched. The adult may be known by its rather narrow head, the black holy, and bright red veins of the wings. The wings expand from two and a half to three and a quarter irches.

The pupa is long and narrow, and compared with that of *C. prainosa*) the bead is longer and narrower, the antenue considerably longer, the separete joints being longer than that of the dog day locust. The interior thighs (femura) are very large and swollen, smaller than in C. praints, though not quite so thick, with the hasal spine shorter than in that species, while the snag or supplementary tooth is larger and nearer the end; the next wing the basel one of the series of is larger and nearer the end; the next spine, the batal one of the series of five, is three times as large as the next one, while in O. ratinosa it is of the same size, or, a anything, smaller. The toe joint (tarsue) projects over two-thirse of the length beyond the end of the shank (tibia), while in the coater species it only projects half its length. The tenninal regiment of the body is rather larger than in Uprainosa. The lody is shining guin color or honey-yellow, with the hinder edge of the abdominal argments thickened, but in darker than the rest of the body. Length, one inch (90 1 00); width Length, one inch (90 100); width about a third of an inch (.35), being rather smaller than that of C prumost and much larger than that of Crimost

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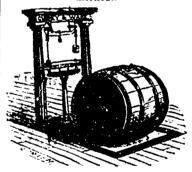
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