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## RURAI NOTES.

A "panarer" writes: It is a singular fact that such mild weather as wo havo had of late has encouraged the frogs to male their voices to be heard as if the spring had been approaching instead of Finter. I never noticed this before during a period of tryenty-five years' residence in the conntry.
Ir is likely that there will be a good average production of pork for home consumption this year, notwithstanding the lurge sale of store hogs. The "new generation," of which no account appears to havo been taken in the spring, is being got ready for the market, and by the end of the year the lovers of pork may get their fill of it.

Ocr readers are respectfully asked to help in extending the circulation of the Rcral. Canadian. Ask your neighbours to take it for the coming year. Anyone taking your advice will thank you for the hint, as the information gleaned from its pages will many times repay the small cost of sabecrip. tion. Sing'g subscriptions, $\$ 1$; in clabs of $1 . \mathrm{cs}$ or over, 75 cents each. Push the canvass now. balance of year free to nern subscribers.

Eabueas are just now busily at work gathering their crops of carrots and mangolds. As these roots go deep into the soil, it is found to be no essy matter to lift them, the gronnd being unus. ually hard and dry for this season of the year. For the next two or three weeks the turnip fields nill be whe centre of operations, and should the present weather continue, a large orop of roots Fill be housed in fine condition. There 18 a good time coming for the live stock.

Is some sections of Ontario farmers only finished the seeding of fall wheat last week. The late harvest delayed a commencement by folly two weeks, and owing to the absence of rain, the ground was hard to work. Stabble and peagromid could scarcely be ploughed at all, and anfortunately a very large proportion of this kind of tullage prevails in the country. We want more summar-fallorring, cultivating, and underdraining to make the growing of fall wheat profitable.

Tax Bellorille Intelligencst very properly sass: "Is it not aboat time that people began to treat the prediotions of the so-called weather prophets with the contempt whioh they deserve? By such means only can the public save themselves from being bored by the prognostigations of men who are no wiser than their fellows as to the fature. Take, for instance, Mr. Vennors prediction for October. Ho prophesied a very severe month of rain, hail and snom, and as evergbody horys Oc-
iober has been the finest month of the year. By all means let the weather prophets subside."

Soure farmers, remarks the Hamilton Times, are keeping back their potatoes, expecting better prices. They were never further mistaken. The New York and Boston markats are glutted, the crops throughout the country are enormous, and there will be no demand in the Stites this year for Canadian potatoes. When contiactors undertake to supply the esculents for the year's requirements of the London Fire Brigade at 48 cents a bushel, high prices in this locality, at all events, cannot be expected.

The delightful aatumn weather this jear has been most fapourable for the rupening of corn, backrheat, and other late crops. Orring to the cold and wet weather of June, corn on all low and undrained grounds got a very late start, and even as late as the first of August farmers had hitle hopesofan ayerage crop. Bat throaghout august and September it grow well and ripened evenly, and indeed there are bat fer distncts in Untano whers frost did ang injury to vegetation before the midale of October. There will be a good supply of corn in farmers' hands for fattening cattle and hogs, especially in the corn-growing listricts.

Teere is a great slackness in the muvement of Wheat. Prices are so low that ferf farmers sell, saving those who are compclled to do so by circumstances. Nor is there any probability of the market improving for some time, for, what very rarely happens, good harvests have been reaped this year the worid over. If farmers can manage to hold on until the sapplies on hand run loss, there is a chance for a rise, or they may hold on in anticipation of a poor crop next year. It is quite likely, indeed, that half the surplas product of wheat in Ontario will be found in farmers bands next spring. Although a largu breadth has been sown thin fall, the crop is far frum being a promising one.

Is what is familiarly known as the barleygrowing section of Ontario-north and a little west of the Bay of Quinte-that grain Was harvested this year in fine condition. It is not as plump as in some former years, in consequence of a local droath in June and July, but the colour is generally all that tho browers of pale ales could desira. In many other districts, however, and especially throughout the western peninsula, the great bulk of the grain was discoloured by rains at the harresting season, and the price boing low very littlo is going to market. The probability is, indeed, that jarmers will feed it to their cattls. This will pay them far betier than to sell it for 400 . or 500 per bushel. It is justas good for feeding parposes as grain of the brightest oolonr, and
in the items of manure, beef farmers will find that they are handsomely rerr.ided by consuming the barley at home.

Neatness in farming is an important matter. The planting of trees, keeping fields free from weeds, painting buildings, and keeping fences in good repair, add very materially to the value of farm property. In a recent drive through a portion of York County, we had an opportunity of seeing varions kinds of farming-largely, we are pleased to say, of the right kind. Still there is room for improvement. When shall we be able to say that every farm is well tilled, fences csrefully kept up, and buildings nicely painted? One farm visited during our drive-that belonging to Mr. Wm. Rennie, seedsman, of this city, deserves special mention It is in many respects a " model farm." Trees have been planted along the roadside and up the avenue to the dwelling house, no reeds are allowed to multiply; and everywhere there is evidence of thrift, experience and intelli gent, well-directed efforts. The rasult is pleasing to the onlooker, as well as profitable to the owner. Neatness and skill in farming pays.

THE seventh annual dairy show at Islington, London, was very successful. The object of the British Dairy Farmera' Association is to improve the dairy stock and to encourage a largerand more general production of butter, cheese and egge. The rearing of poultry, geese, ducks, tarkeys, and pigeons is also one of the aims of the association. It is extremely probable that tho British farmer will tarn his attention more and more from the production of cereals to dairy farming. The high prices which prevail in America aro already injuring exports to England, and there has recently been a considerable decresse in the exports of meat and cheese. It has often been stated that England cannot compete with oiher countries in the production of cheap poultry, but certain experiments, which have been mado of late, prove this assumption to bs incorrect. For instance, at Aylesbury, Buckinghamshire, large numbers of ducklings have been reared, and have proved highly remunerative. The importance of this show cannot be overrated. Three million gallons of milk are daily produced in Great Britain for human consumption. Of this quantity trro-thirds are converted into cheese and batter. Attention to the methods of producing and manufacturing is, therefore, a matter of prime importance, and dairy utonsils of all sorts formed an interesting portion of the display. As an indacement to the gencral publio to visit the show, thero wero contests of checse and butter making, also a millmaid contost. The advocates of goat breeding wero well represented, and soventy-four animals fought for the prizes. The show fas in every frey a zuocess.

## FARM AND FIELD.

## AN AUIUMN RAMDLE.

A dolightrul day! Not a day odorous with flowers and now-mown hay, but one of those ware Indian summer day's when'the woods stand transfigured in the molluw light. Como, let us have a ramble. This oity life of ours is monotonous at beat, and the country will at least have the charm of novelty. But you do not earo for the woods? No matter; you cannot help admiring them now. Come, I will try to point out therr beautics.

Observe that maplel How pleasantly the sunshine ripples through its foliage !

The oreok is a very talkative compauion. It is seldom quiet, and never dull. Its current is more copious than I had thought, doubtless owing to the late rains. The great blooks of sandstone in its bed ars smoothly polished, and the imyetuous current rubs array at thom unceasingly, foaming and bubbling as it breaks against them.

See this pina! Isn't it a giant? Ho must be lopely here by the roadside, with no company but puny saplings. It is singular that the lumbermen have spared his trunk. How tall he is! Rub your bump of caloulation and give a guess af his height One hundred feet! Not less surely; doubtless considerably more. His trunk is strajght as an arrow-a magnificent shaft. Throw a stone over him! Indeed you cannot, friend of mine. Try it, if you will ; I'll be your judge. Handly half way up, houestly. Seo the branches ap there quivering. The old giant is laughing at you.

Now the valley opens out. Yonder is a farmhause, while there is a sav mill with its unsightly dam-far from piotaresque objects. But notice the old bridge-a tumble-down, half-ruined structare that would adom a sketch of woodlend scenery. Look now beyond house and mill and bridge. Was ever hill more gorgeous than that one? What autumual colours could be brighter than those oaks, dog roods, hichuries and breches? Off here to the loft, through that pine-walled gap, notice that distant hill with the blue haze above it. What richer or lovelier tints could an artist desire?
See this pine thicket. It is twilight in there, even in the brightest sunlight. There goes a squirrel !-a ping, the boys would call him, to distinguish him from the gray squirrel. Hear him chatter! He thinks we have no business here no doubt; but we will call in and see what kind of a housekeeper he is, for this seems to be his home. There, he has vanished withont a word of welcome. How quiet and dark it is! These brown pine needles make a capital turf to walk on, but thoy choke out the grass, even if the scanty light rould permit of such growth. This is something akin to the "dim roligious light" one reads of in the old cathedrals of Europe. There is a sombreness about the place that produces weird fancies. Pino moods have almays been prolific of legends. Unilike oak or maple woods, they have little affinity for sunshine.

We have had quito a long walk, and it is almost lunch time. I see a glade asross the creek, that would be an excellent place to lunch in. But how shall we cross? Really I had not thought of that. The bridge is a mile away, and the creek is deep and rapid. Ah, I hare it! There are two big sandstone boulders in the atream, not a dozen feet rpart, and here is a rail fence. Are wo engineers enough to build a bridge, provided the orner of the fenco didn't discover us? Certainly. There, two rails aro safely laid. Not strang enough jet. Two more. That fill do, I think.

Evon a prosy follow liko yoursolf must aoknowledge that this is a pretty spot. Here are rhododondrons, with groen and lustrous leaves that romind one of spring; there are little pines grouped as if planted by hand, and brok of us is a thicket of yellow-leafed buahus that I am not botanist enough to call by name-all inolosing a glade made pleasant by the mild October sunshine. Here is a dry log to sit on, and now for lunoh.
Hear the bird singing I Its voice is not musical, but in keeping with the wild woods it lives in. I think it is a jay. The robine, bluebirds, and catbirds havo all gono southward, and it will soon follow. The blaolsbirds aro holding a caucus yonder on the hillsido, doubtless delibernting about their romoval. What harsis voices they have! Thoy are nearly related to the crow, I believe-a natural thiof and vagabond. By the way, there goes a crow now off that chestnut tree -a lazy-winged fellow, with a most melancholy caw.

Littlo else is stirring in the woods but birds. Perhaps a squirrel springs into vision at long intervals, or a rabbit darts out of some thicket; but silence reigns emong the trees. It is a silence broken by many sounds, all so in harmony with it that it remains undisturbed. Lesves drop ceaselessly-red, yellow, green-rnstling against the branches as they fall. There goes a golden hickory leaf into our lunch basket. It must have bailed quite a distance, for I oan see no bickory tree near us. A puff of wind sometimes blows off a flurry of leares, scattering them in all directions, to seek erratio courses to the ground,
What can this be? Surely not a flower! Yes; a violet growing in this nook by the roadside, and November almost here! A kenutiful little flower, isu't it?-too delicate for these wild woods. I shall take it home with me, root and all, to keep Jack Frost from nipping it.

These aimless wanderings through autumn roods have a strange charm for me. They take me out of my selfish life, and exert a refining inHuc..je. It is like wandering in dreamland, save that one sees nothing distorted or annatural but beauty of a simple and fascinating type. No poetry is sweeter than that of Indisn summer. but few of our pocts have yet succeeded in giving it adequate expression.

Beautiful! You exclsim, and I echo the word, pleased at this evidence of your appreciation.
Our walk has taken us some hours from busi ness; but I do not regard it as time lost. We have spent a short season with Nature, in one of her most delightful moods. If she has taught us nothing of practical use in our business life, she has at least left pleasant impressions of her beauties that will linger with us in the winter, and lifted us for an hour or troo out of the monotony and worriment of our every-doy existence. The Workman.

## LUCERNE.

its bejareadle atemits and the beabons for its neglect.
Lucerne is the Modicago sativa of the botanista, a leguminous plant that has boon known and cultivated for forage from the earliest historical times. This plant was introduced from Media, in Asia, to Greece, in the time of Darius, 500 years bofore Christ, and from thence its cultivation extended to Italy and to the south of France, where it has been grown to this day, having almays continued to bo a favourite forage crop. Through the Spaniards, probably, it was early introduced into Mexico and Sonth America, Where, under the name of alfalfa, it has flourished with greal luxuriance on soils suitablo to its growth, spreading spontaneously, and proving of
immense valuo for the vast hords of oattlo and horses that roam over the pampas.

Suoh is a general statoment of the oinaraotoristics of Lucorne, and it is ovident that it must bo regarded as one of the most important paronnial plauts that cover the surface of the earth. It has nover becomo a universal favourito in this oomntry for several ressons. One is that it will not endure so sovero a olimato as red olovar, roquiring granter heat, whilo it is not adnpted to quite so wide a range of soils, but perhaps the chief reason is that our farmers will not give it the minute care and attention it roquires to atart it properly. They don't lise the idea of having to oultivate and weed a forago crop. In common parlanco it would be ranked among the grassee, and the ides of weeding and cultipating $n$ grass with all the nicety of a gardon crop, seoms absurd to the averago farmer when he can get his respeotable crop of olover with even the most slovenly troatment.
Lucerno is exaoting in its requirements. It must have a deop soil and will never succeed in a thin one. It languishes in compnot and clay soils, and cannot flourish on light soils, lying over impermeable subsoil. In loose and permeable subsoils of losm, sand or gravel, its roots penetrate to great depths. They have boen found in sandy soils thirteen feet long. They are nearly destitute of lateral shoots, but have numerous fibyous rootlets which imbibe the moisture needed to sustain the plant from great depths. Its nutriment comes from layers of soil far below tho average of other plants. Heuce its wonderfal adaption to tropical climates and to long contunaed drouths. I have seen it flourishing in California and in Utah where it had not reocived a drop of rain for many montils.
From what has been said, the sail most suitahle for Lucerne is a deep, rich, mellow losm with a light subsoil. This latter is of the utmost consequence. Deep tillage and especial care to break through an underlying hard pan will do something, to be sure, but a neglect of this precaution, wherever a hard pan exista, will lead to inevitable failure. A calcareous soil, or a sandy soil lying over a loose calcareous subsoil, may be regarded as the best for lucarne or alfalfa. Growers of this crop in England and the south of France, sow it in drills, and hoo it often enough to heep out weeds, that is, to keep it perfectly olean for the first year or tro, or till it coyers the ground. This is essential to the highest success. But the chief difficulty is in getting it started well. It does not como to its perfection till the third year, and then it is superb, if the soil is snitable for it, and after it is well started, it will last for many years. It many be counted on for twenty or twenty-five years, and will furnish several cattings each year, beginning early in May, and furnishing a crop once in about thirty days.
In one cass eleren acres hept. eleven horses 290 days. In another case eight acres bept eight horses 815 days, and in both cases a larganamber of sheep were pastared on the ground for a long time after the last cutting for the harses. It ia graatly relished by all linds of stock, especially for cows where the milk is sold in tho market, but is not thought the best food for butter-making. Sow trenty ponads of seed to the acre. If the seed. is pare that is sufficient, but us mugh of the seed is impure and old, it is safer to use twonty-fire pounds. The seed is nsually corered. with a hard coating, and if it happens to be very.dry it retarde vegciation, 80 that it is better to steep it in warm water for sis or eight hours bafore sowing. We spould be glad to record a thoroughly saccess. fal esperiment with this crop. It is worth an effort to groys it in the beat manner.-How, C. L. Flint in N. Y. Tribune.

## GARDEN AND ORGHARD.

## insects inturious to the peach.

Tho poach appears to have only one special enomy, the Pench Borer (AEyeria exitiost), sce Fig 57 , dosoribod as follows:-
"Tho Penoh Borer is a wasp-liko insect, with transparent winge, and a riohly ornameuted body, banded and striped with gold, which deposits its egge about the base of the trunk. The egga lhatok oat, and the larvo bore into the sapwooid, and cause an exudation of gummy matter which appears in masses about the base of the treo. The larvas seem partly to livo in this gummy sub. stanoe and partly in the sapwood of the trec. Somotimes three or four are found on tho samo tree, occasionally girdling and destroying it, but almays inducing moro or less of a diseased condition, and impairing its vigour. Altogether it is a very objectionable and destructive insect."
As to the means of combatting the operations of this pest it is remarked:-
"It is usual on the appearance of these gummy masees to cut them away, truce out the larva and destroy it. By watchfulnoss in this way its deprodations may be stopped. It has been suggested that banking up the trees with earth would pre. vont tho insects from depositing their egge, and the mothod is very strongly recommended by those who have triod it As a rule those who look after their peach trees closely have not much trouble with the Borer. It is easily discovered by this gummy exudation, and can be easily taken out and destroyed if it is looked after at the proper season."
insects injurious to badal pruits.
Coming noxt to the insects injurious to the smaller fraits, the Imported Sawfly (Nematus rentricosus), sec Figs. 58, 59 and 60, is one of the most troablesome to the currant and gooseberry. It appeared some years ago in New York State and spread thence to Canada. It is described as follows:-
"The parent insect is a small transparentwinged fiy about the size of the ordinary housefy, but furnished with four wings. This fly makes its appearance very early in the season, and as the young foliage is expanding, deposits itseggs usually along the leaves of the gooselerry, in regalar rows un the under side.
"The eggs are set end to end, and are fastened by some glutinous surstance. In a few days these egge hatoh out little grubs, which proceed to oat holes in the leaves. On turning the leaves up you will find the young colony of larve very numerous, and you can sometimes destroy the whole brood by pioking two or three of the leaves and trampling them under foot. If not checked at that time they soon scatter over the bash, and youl find the foliage disappearing with great rapidity, first from the lomer portion of the bush, and from that upwards, until in a very brief space the whole of the foliage of the bush, or nearly the whole of it, may be destroyed, learing the branches bare."
"The insect," says Mr. Saunders, "is at least doublo-brooded, and it is sometimes supposed to have more than two broods. If it is only double. brooded, the broods appear at different periode, so that yon can almost at any time during the serson find larvo on the bushes in different strge9 of development. You will find the larvo most abundant in the early part of the season, devouring the foliage as soon as it is thoroughiy developed, and, when full grown, going to the sarface of the ground, where they construct their cocoons among rubbish or decaying leaves, coming out early in the summer and deposiling their eggs for arlater brood."
For this insect and the native emrifly, which is so scarce as to be of little annoyance, hellebore is a suffioient remedy.-Report of the Ontario Agricullural Comnission.

## WINTERING FLOWERING PLANTS.

There is no vocation in lifo which calls for a greater amount of forethought than that of the
gardenor. Although as wo writo our oyes rost upon beds of stately foliago plants, brilliant verbenas, and long lines of elowy annuals, we are prono to romumber thist. in a fow weeks more at the most another season of buds and blossoms will be numbered with the past. These glorious summor daye, whorein we delight to hoar tho joynus hum of the busy boes, or the humorous

## the pbach wohbr-AEyeria extitiosa.



Fig. 67.
In Fig, 57, $z$ shows tho femalo infoct, and $a$ tho malo.
the salw fly-. Vematur rentricosus.


In Fig. 58 wo havo represontod both male and femalo fies $-a$ the male, $\delta$ the female.


Fig. 59.
marva of saty ply-Nearly full.grown-fseding.

jokes of the farm labourers as they bind the golden grain, must in the course of the everchanging seasons be succeeded by the long dreary winter. We who love the benutiful flowers whoh the haud of God has oaused to spring up overyThere to adorn His footstool, desire them not only in the sammer but every day of the year, and it is surprising what a little forethought will do in secturing plants for winter blooming. If we moald have our homes look bright and cheerfal
we must now soo that the proparatory steps aro taken.
I will montion a fow plants whioh may bo raised from seed suitable for winter blooming. Seed may be somn in Suptember in a slandy cool place in the garden, the soil being kept constantly moist, and as the plants get largo onough thoy aro to be put in the pots in which they are to bloom. By full they will be just right to bring in doors. Of tho climbing plants or vines for winter blooming, tho Cobea nud the Maurandin are excellent. The tubers of tio Madeira Vine may bo planted now in four or five-meh pots and pluaged-that is, sunk in the ground-to the rim of the pot. So also may the bulbs of the deliciously fragrant Tuberosa, and you will have thoir sweet blossoms in early wiuter. Ageratum will give you pretty blue flowers. One of my correspondents strongly recommends the Petuma as a winter lluwer. There is one of the hittle delicate tluwers--a great favourite of mine-the Browallia, which is grown very extensively by commercial florists for wintor use.

Plants in pots intended to bloom in winter require a season of preparation, and some of them of absolnto rest. We must not expect a Fuschia or a Geramum which has given us its flowers all summer to do tho bame in winter. There are certam Fubchias, nuticeably Cal Holt, Speciosa and Lustre, which aro especially adapted to bloom at $t^{2} ?$ at season of the year. If you have some choice Geraniums bedded out which you desire to save over winter, it is only necessary to shorten in the branches before potting them.

Of tho winter.blooming bulbs, of course the Hyaciuth heads the list, but as they mast bo 1 m ported from Holland every year, they are considered rather expensive by some people. We procure them in largo quantity and are able to divide our surplus stock among our readers at a nominal charge. There is the gorgeous Tulip, the pretty Crocus, the modest Snowdrop, the sweet Lily of the Valley, and several others. Who is thero among flower lovers who does not admire the Cyclamen, fur it is in bloom the entire wintcr? The Tea Foses and Heliotrope will give us their fragrance, Bouvardias, Ageratum, and Begonias themr colour, Sumilas and Lycopodium their grecuness, and with these and many others which I will refer to in subsequent letters, our homes may be adorned with a beautiful bouquet even when
"Tho melancholy dajs have come,
Tho saddest of tho jear."
—" Remie" in Ohio Farmer.

## SUCCESSFCL PEACH ORCHARD.

N. F. Murray, of Elm Grove, Mo., stated to the Horticultural Society of that State his experience in peach groming. Twelve years ago be planted $\mathbf{5 0 0}$ trees of the leading standard varieties. The orchard was cultivated three years with corn and potatoes. Aftervard the ground was kopt cultirated with no anuual crop. The only manure was a moderate application of rood ashes. The total amount already received from the orchard is $\$ 2,150$, beside a few hundred dollars worth consumed by the family and friends. This is over fifty dollars from each acre for every year since planting. The land cost fifty dollars; the trees fifty; ploughing and planting seren dollars; cost of cultivation, above the home consumption, forts-three dollars. Whole cost, $\$ 150$. This sum added to compound interest at 10 per cent. on cost and expense of gathering, boxing, solling, etc., left a net profit of $\$ 1,088$. The locslity is in Holt county, on the main ridge betreen the Nodaray and Missouri rivers.

Sudscride for tho Rural Canadian.

## HORSES AND CATTILE.

A RIDE AND DRIVE HORSE.
"The horse for export to England," says Mr. Patteson in his ovdence before the Ontario Agricultural Commission, "is at prosent produced cutirely by accidont, being what is called a 'chance' horse. He is of a different mould altogether from a horso gonerally considered valuable in this country; in fact, those horses Which I havo sont to England, and out of whinch I have made most money-gotting guineas where I paid dollars-have been horses upon which the farmer or breedor set comparatively littlo value, and which thoy regarded as boing worth much less than some straight-shouldered oross-bred machiner in their stable, or a slelly, weody and ofton ugly mimal, able to go at a $2: 50$ or 8 -minuto gait.
"These horses are generally picked out of farmers' teams, and haro been got by a thorough. bred horse out of a pretty well-bred mare, partly of trotting and partly of coach blood. An Eng. lish dealor will give you most money for a 'ride-and-drive' horse, with the qualities of a good hunter about him, and many of our farmers' horses are of just such a class.
"I will try to describe a model horse of this kind. He should weigh nbout 1,100 pounds, stand from $15-3$ inches to 10 hands high-anything under 15.9 being classed as small-girth about six feet-the tendency in girth being to depth rather than width; should be short in the back, with very oblique shoulders, level quarters, high set tril and legs planted well under him; of a good colour, with no objectionable mark ings; not more than six years old, and of course sound, and free from vice Such an animel, up to 14 stone, would be worth 120 or 130 guineas, and can often be bought first-hand here for $\$ 120$ or $\$ 130$. Of course there are not many horses in this country which really come up to the standard I have indicated, and such as do exist have been bred entirely by chance.
"If I ranted to buy twenty such horses, I should go into those districts where, six or supen ycars ago, was located a thoroughbred stallion of fair size and substance, with good bonc, flat legs and two good ends, and I should be quite sure to find there some horses of the class I have described. The stay, dash and thoroughbred characteristics in the progeny would come from the sire, while the mare herself, say half English coach horse, and half roadster, with no actually cold blood, such as that of the cart horse or the Clyde, would give additional weightcarrying power, and mares of this kind are plentiful throughout the country."

Such a horse as the one described as an Euglish hunter will be likely to come very near to the one Mr. Patteson has in view. For a lighter saddle horse, horever, one more nearly approaching to the cut given on this page rill be much appreciated.

The field for action in this respect is a wide one, and enougi has probally been said to direct attention into certain remunerative channels, and to utilize all the several classes of horses previously described. The farmer, if the attempt horse breeding, should make it a rule to breed for $a^{\nabla}$ distinct purposi-to bring together no incongruous elements-to use no horse that is not thoroughbred, or capable of transwitting the characteristics of a distinct breed, and to be content with nothing less than the best of its kind. By this means a superior description of every class will bo identified with the horse-breeding interest of Ontario whether it be the heavy draught, the general purpose or roadster, the park horse, or the hunter and sadide horse. The standard of value for Canadian horses generally will be raised, with the possibility at tumes of large prices being obtained for those posscssing speed, or form, in a more than usually marked degree.

TURNING HORSES TO GRASS IN THE FALLL.

It is a popular idea that a horso lropt up on a plank floor, and fod on dry foed for a considerablo time, needs "a run to grass," and he will bo im. proved in condition by such a change. It is not genorally sufficiontlyoonsidored that suoh a change is violent: rouderod so by the sudden clange from dry, nutritious food, to which the systom had become accuatomed, and has done well on, to a surfeit of grass, which distouds tie digestivo organs, ferments, unduly loosening the bovels and taking of firm flesh whioh oan hardly bo rostored under a month or two of careful foeding.

Changes in tho food given to farm animals with propor restrictivns, are proper to be made, but such as are made through reoommendations by ignorant porsons, no sound reasons existing for thom, aro uot likely to prove beneficinl. A horse is frequently turned out for the purpose, in the language of the groom, of taking the fever out of him, while, if he has been properly aared for, and driven with discretion, ho will have no fover in him. It is frequently better to make partial changes in the stable, giving, in place of all oats, an alternation of ground feed, so apportioned that it will be slightly lasative, provided


FOR TRE SADDLE.
the horse needs to have his bowels loosened. But to do this in the stable, or by turning to grass, on the assumption that it is good for the animal to be occasionally "loosened up" is wrong.

If the horse owner would apply this principle to himself, he would not be likely, when in the best possible state of health-the digestion good and the muscles firm-to listen to a saggestion that he leave of his bread, meat, potatoes and coffee, and confine himself to greens, soup and water for a month or two. All such changes, whether in man or beast, disturb the functions, diminish the proportion of red globules in the blood, render the muscular fibres flabby, that they tire soon on exertion, overstimulate the kidneys and shin, because these omunctories are called upon to release from the system an excess of fluid, green grass being largely mado up of water. This excessive action impairs, lets down below the healthy standard, and it takes time, feed and care to replace wasted tissues and restore lost tone.
But it is not alone the sudden change referred to which causes risk. The horse accustomed to a dry stable, protected from wot above and beneath, is poorly propared to stay out in the cold rains of autumn, much less to lie in the wet. This exposure makes a greater impression than it othervise would because of the change from grain to grass, the porier of resistance being lessened
in proportion as the blood has parted with its globulcs. Loss of oondition and a staring coat come from this exposure; and if the horse be at all suscoptible to lung troublo, bo may contract this. Hence, for theso reasons, the idea of turning a horso out to got him into condition, is a very erroneous nue.
If, for any reason-and this should not bo an imaginary ono-the horse is thought to requirs greon food, or a change, for a timo, from the habitual dry grain, then give him bran mashes and roots. But while this oxperiment is boing tried the horso should be relieved from work, as the moment this course is entored upon the system is reakened; the effeot being precisely upon the muscles of tho horse as apon the steel spring whon the tomper is taken out. The English farmer feeds roots, not becauso of any supposed high nutritivo value, as they are well known to be made up of three-fourths and over of water, but because, in the case of fattening animals, especially cattle and sheep, roots maintain, in stock confined in the stall or pen, a condition akin to that enjoyed while upon grase. But these reasons do not at all apply to the horse; for if, while kept either for work or speed, ho is made to accumulate fat from soft or green food, in proportion to the fat so laid on, in that proportion does he part with his ability to do bodily labour.
But very fow know any thing of the value of oil-cake meal for horses. Its use in fitting fine-bred cattle has long been common, and its valuo fully appreciated. The same can be said of swine, for no other feed will cause a pig to gain and put him in show condition so speedily as oil-cake meal, giving him a glossiness of coat not obtainable so well in any other way. What oil-cake will do for cattle and pigs, it will do equally as well for horses. A horse appearing to be bound up, as the term is understood in the stable, can, by the use of this feed, be relieved of this condition as promptly as by turning out to grass, involving none of the coutingencies which attend the latter, the fuli strength and vigour being maintained in the meantime. Nothing so quickly improves the coat of the horse as the use of a little oil-cabe incorporated with his feed, while turaing ont to grass in sun and rain fades and roughes the hair in a week's time. In addition to this, oil-cake loosens the bowels, the degree to which this is done being entirely under control, while the effect from a run on grass is largely a matter of chance.-National Live Stock Journal.

## THE BEST COWS TO RAISE.

The best bresd of cows under all conditions has no existence, as so much depends upon the adaptation of the pecuiiar qualities of each breed to surrounding circumstances. The National Live Stock Journal says, however, that, if the production of milk for towns is the leading object, then selected Ayrshires, Holsteins, or Shorthorns will give satisfaction. If they are intended for buttermaking, then the Jersey, Shorthorn, and Ayrshire would be the best, taken in this order. If for cheese-making, then the Holstein, Ayrshire, and Shorthorn. It does not, however, approve of pure breeds for dairy parposes; but advises a cross of a Jersey bull on a deep-milking Ayrshire cors, as the delicate Jersej will be mach improved by crossing on the hardy Ayrshire, while the grade will yield more milk than the former, and of a richer quality than that of the latter. A square cross of a Jersey bull upon selected common cows also generally produces an excellent dairy grade.

## THE JERSFYS.

Mr. Clarko, of Brampton, was the only witness oxamined who represonted tho Jersey brn3d of oattlo. Mr. Clarko does not protond that the Jersoy is of specinl value for anything but yielding a liberal supply of milk, capable of produoing rich buttor. From six cows he has, he says, without extraordinary feoding, got $1,800 \mathrm{lbs}$. of superior buttor in a year. Ho does not claim that his bulls aro particularly impressivo or prepotent, for he says:-
"The Jorseys in some enses rapidly conver their milking propertios to the common animals of the country-not in all cases; some of the bulls leave their impress much better than others."

Ho has crossed them with the Durham with fair results, and says:-
"The result of crossing a Jersey bull on a Shorthorn cow was, that I got good milkers of a fair size. The mills was very rioh; the cross acemed to partake of the Jersey with regard to its milking qualitios, and seemed to have more of the Durham build about it. In that case the male did not impress himself so much on the make of the snimal as on its milk."

For family use, or where the sole object is to command a high price for vory choice butter, the Jerseys are a useful breed of very docile and manageable little animals, but to the ordinary farmer they are, and are likely to remain, practically unknown. -Report of the Ontario Agricultural Commission.

PREPARING CATTLE FOR WINTER.

On this practical subject, the National Live Stock Journal says - "The man who, thinking to build cattle up for winter on turnips, containing only ten per cent of atarch and no oil, or on parsnips, generally counted as pretty good foed, yot with only eleven per cent. of starch and no oil, will make very slow headway indeed. Preparatory to the coming on of cold weather, cattle require concentrated food, such as is the opposite of being watery and washy. A moment's consideration of the fact that oats or corn standing in value as seven to ons, while the food value of turnips or carrots is as one hundred and fifty to one, will show that the latter should not be relied upon when strength and flesh need to be obtained without undue delay. It is intended to show by this statement of the relative values of the articles named, that seven pounds of osts or corn are equal in fleshmaking value to a hundred and fifty pounds of the roots named. These are proper articles for use in connection with grains, but an animal cannot be built up as is required at this season of the year, taking on such vitality and vigour as will enable it to resist the cold weather of the winter months, on these alone."

## TRAINING VICIOUS HORSES.

What the Philadelphia Record refers to as "a now and very simple method of training vicious horses " was lately exhibited in that oity, with "astonishing results" in the caso of the most fiers and untamed steeds:
"The first trial was that of a kioking or "buoking ' mare, which her owner said had allowed no rider on her back for a period of at least five years. She became tame in about as many minutes, and allowed herself to be riddon about without a sign of her former wildness. The means by which the result was accomplished was
by a pieco of light rope which was passed around the front of the jnw of the mare, just above the ; upper teoth, orossed in her mouth, and thence secured back of her neck. It was olnimed that no horse will kiok or jump whon thus secured, and that a horse, after roceiving the treatmont a fow times, will abandon his vicious ways forever. A vory simplo mothod was also shown by whioh a kicking horso could bo shod. It consisted in connecting the animal's head and tail by means of a rope fastonod to the tail and then to the bit, and then drawn tightly enough to incline the nnimal's head to one side. This, it is olaimed, makes it absolutely impossible for the horse to kiok on the side of the rope. At the same exhibition a horse which for many years had to bo bound on the gromend to bo shod suffered the blacksmith to operate on him without attompting to kick, while scoured in the manner described."

## FRENCH HORSES.

Tho Brilish Quarterly Journal of Agrictelture says: "The horses of Normendy are a capital race for bard work and scanty faro. Have never elsewhere seen such horses at the collar. Under the diligence, post-carriage, or cumbrous cabriolet, or on the farm, thoy are enduring and energetic

voling man with the strap; therefore a steady hand should mannge the roins; I have never known a horse under this treatmont to kiok or act mean in any way other than to try to run. When he does start off the hold on the strap should be given up. Aftor haviug gone twentyfive or more ynrds the horso should be gently brought to a stand and the strap removed. Then try to start him without tho strap. If he does not move off at once apply it again. Ho will soon tire of boing thus annoyed, and will give you no firther trouble in this way.

## how to taine care of harvess.

A harness that hes been on a horse's baok soveral hours, in hot or rainy weather, becomes wet; if not properly cleaned the damage to the leather is irreparable. If, after being takon from the horse in this condition, it is hung up in a careless manner, traces and reins twisted into knots, and the saddle and bridle hung askem, the leather when dried retains the shape given it when wet, and when forced into its original form damage is done the stitching and the leather. The first point to be observed is to keep the leathor soft and pliable. This can be done only by keoping it well charged with oil and grease; water is a destroyer of these, but mud and the saline moisture from the animal are even more destructive. Mrud in drying absorbs the grease and opens the pores of the leather, making it a proy to water, while the salty character of the perspiration from the animal injures the leather, stitchings and mountings. It therefore follows that to preserve a harnass, the straps should be washed and oiled whenever it has been moistened by sweat or soiled by mud. If a harness is thoroughly cleansed twice a year, and when unduly exposed treated as wo have recommended, the leather will retain its softness and strength for many years.
bone they flinch not. Whey keep their sondition when other horses would die of negleat and hard treatment." The superiority of French stallions for crossing on the common mares of Americs is established. This fact has cansed the development of the largest importing and breeding establishment in the world, M. W. Dunham, of Wayne, Ill., having imported and bred nearly 1,000, and has now on hand some 400.

## STRAP CURE FOR BALKING.

This is a remedy of one who has hadl considerable experience in the handling of balky horses, and which he says has never failed him. Tro persons are required for the trial. One stionld hold the reins while the other fastens a short strap or rope-a halter strap, slways at hand, answers the purpose well-just below the fetlock of a fore leg; then going forward, he should pull on the rope until the horse lifts his foot; continuing to pull, the foot will be brought forward and set down a little in advance of the other. The horse thus thrown out of a natural position, will move formard to gain his equilibrium. Another pull Fill cause another move forvard. This may bo repeated several times, or until the horse moves without having the foot palled formard. Usaslly the first or second pall vill start him. Three or four such reminders will do the work. When the start is made it is generally an easy one. Sometimes, however, it has the appearance of the horse being in a horry to get arrey from the pro-

## WATERING HORSES.

There is a certain want of common sense and humenity in the habit many persons have of watering horses three times daily. Whe only reasonable or sensible or prudent plan to pursue is to give the animals water according to their real rants. This is a different matter from giving it to them capriciously, or according to their fanoy. If we give way to the latter, We will find the animal becomes as cunning as a monk, and will play the old soldier at every opportunity, pretending to drink and make believe, so as to gain time and shirk work. But it is cruel to compel a team to plough or work from morning until noon, or from noon until night, without allowing it the privilege of a refreshing dicaght.-Platter's Journal
If a horse is shy and hard to catch, take finely grated castor, oils of rhodium and cummin. Keep them in separate bottles, well curked. Put some of the oil of cummin on your band and approach the horse on the windy side. He will then 'move toward you. As soon as you can reach him rab some of tho cammin on his nose, give him a little of the castor or anything he likes, and get a fart drops oi the oil of rhodium on his tongue. After this you can make him do nearly everything you want. Troat him kindly, feed well, handle gently, and your viotory is cer-tain.-Turf, Field and Farm.

## SHEEP AND SWINE.

## Whter mandgevent'.

Tho winter will soon be here, and our sheop will require that special attention which the cold monthe domand. There are comparatively few who have not lenmed-learned by costly experience, if no other way-that to neglect the sheen in winter, is a vory unprofitable thmg to do. All through the North, shelter 18 needed, and without it, it is nseiess to count upon profit in sheep husbandry. In some casos the sheep are not brought to tho pens early enough, but are allowed to run on tho pasture, without other food, until they fall a way in condition, and it is found that the loss is difficult to retrice. Start them on the wimter in firstrate condition. Whar the frosts have touched the grase, bring up the sheep aud feed them once or twice a day. When the weather is good. however, they should be allowed to run in the field, until it becomes quite cold. or the ground is covered with snow. When feeding is commenced, the oldest and poorest of the flock should be selected out for special care. They will need bigher feeding than the others, and they should be fitted for the butcher as soou as possible, and if any happen to be in such coudition as not to prowise anything from such a course, it is far better to bill and skin them at once. Itcertainly will not pay to keep them through the winter, and have them die in the spring.

As to the number of sheep which should betept in one flock, it will depend uron circumstances. The Merino has fully established the reputation of being able to do well in large flocks. But the long-wooled sheep can be kept inlargeflocke, also, if they have plenty of room, and if there is lack of room, it is not alvisable to keep even the Merino in large flocks. Animals cannot do well, if they are so crowded as to contuminate the air they breathe, or prevent a free escape of the gaces that cone from their bodies. Sheer are peculiarly sensitive to bad air, it is said, but we do not know that they are much more so than other animals It is a plain and indisputable fact that no animal system can be forced to live in an impure atmos. phere, without injury to it. Sheep must have good wiolesome air to breathe, and that necessity should be kept constantly in view when we are constructing shelter, and when deciding as to the number that shall constituto a flock. The sheep does not suffer much fiom the cold. If it is clear, the animal will not complain because the mercury is low. But they cannot stand much dampness, either under their fect or on their backs. Sheds should be so constructed that they will be open toward the south. If convenient, they may be so built that they can be closed if desired, but it will do no harm if they are permanently open on the one side ; and if any shelter which was not esp. cially designed for sheep, and which is not so constructed that it can be freely opened as here suggested, is utilized for the purpose of sheep sheltering, byall meaus attend to the ventilation. On no account shut a flock of sheep up in a place where the pure air will be exhausted before morning.

In the centre of a shed constructed for a shelter, there should be a rack about which the sheep can gather without crumding, and feed. The rach should be arranged so that it will tot ocly hold bay, but also prciided with means for feeding roots or meal. Keep tho floor dry, and to this cod usc flucty of bedjuig, if auylhiug is at hand that can be nexized fur ouch a purpuse. If an abuadarie of Leddif: causut be had, bu sure and olean oat the place chery day. It nekardly neesesary to romind angun: that esercise is absulutely necossary. On no account deprive the sheep of exercise. Disease must follow such a neglect.

## BERKSHIRE SWINE.

The Berkehire has been a favourite breed of swine now for fifly yoars. In that time, howevar, many important changes havo oocurred in thoir male-up, so they now stand among swine where the blood horse does in the equine race, and whero Shorthorns do among cattle, combinug eloganco with symmotry of form and high breediug. Yet in all thie they have preserved usofulness in the highest dogree, and have been ustd within tho last twenty-five years probably wore exteusivoly thau any other breed of swine, in improving newer breeds giving olegnuce, firm boue, great muscularity, and good constitutional vigour.

In reference to the history and general makeup of Berkshires, the American_Encyclopedia of Agriculture says:
"They are more uniform of colour than any of the white and black breeds, the fashoonable colour now beng white feet, thps of tarls, and a hutle white in the faco, the rest of the lody being jot black.
" Diore than forty yoars ago, as we thon knew aud bred them, there were many upon which a sandy colour would appear. And they were larger boned and coarser in their make-ap, but nevertheless, perhaps, containing thore lean flesh (muscle) than at the present day; not so kindly in fattening, neither did they contain so much lari, but their hans, shoulders and bscon were, we think, suporior to the more modern Berkehires, or those of to-day.
"The best type of this breed now have short noses; slightly dished faces; small, fine, erect cars ; eyes wide apart ; straight back, preserving its width from the neok to the rump; muscular hams and shoulders; the bacon pieces well broken with strips of lean, fiue hams, sloort legs, excellent hoofs, and in kulling showing but littlo offal. Their vigour makes them excellent gleaners, to follow cattle fattened in the field, and their weight, from 800 to 600 pounds, renders thern sought after by the paokers, especially those of hams and bacon.
"They have been with us always a favourite breed on account of their muscular dovelopment, as among the midale breods, as the Eisses have been among the small breeds. It is, however, not to be denied that they vill not stand starving. Chey require strung feed and plenty of it, to reach tise best development-and what animal does not? Nevertheless, we do not think they assimilate quite as much of their food, when the bulk of it is cora, as do some of the breeds more inclived to lard. Yet, no breed will reach good development on scant food, and when muscle as well as fat is wanted, the breeder or feeder would Lave to seck far for a hog better combiuing good qualities, and fall medium weight."-Prairie Farmer.

## a small breed of pigs.

An English contemporary, spesking of a breed of pigmy porkers, three sows and a boar from Nepaul, on exhibition at the Zoological Gardens, London, says:
"This species is so rare, that since Hodson Jescribed these animals, fifty years ago, there has nut heen a sugle specimen attainablo 10 Earope, and uven the maseums have been unable to got more than a single skin. They are very small in size, ocarceiy bugger than a large wud rabbit; or prutabig a better ados of their size may be formed ly givang therr weight at seven or elght poands caoin. Thoy are very rotive on thear legs, ranmang very swiftly, and they are very shy. Then skins are well covored with short, reddishbrown hair, or rather bristles; they are pary clean
foedors, and also vory oloanly in their habits. Their fesh is esteemed very good for eating; and thus theso interosting littlo porcines aro naturally the subjects of othor contemplations than their zoological rarity. If thes can bo brod in the Gardons, tho Society will find profitnblo results repay the price given for thom, by disposing of the first offspring to other menageries; and tho acolimatization of the subsequent progony would saem to bo well worthy of attempt, as they might be kept seomingly without offonsiveness in the yards and gardens of domestic houses, and be fed upou potato parings, vegotables, and dabris of fond. Thay are very fond of rice, and will oat small portions of ment; but they will not toach the wash or greasy matters commonly given to orainary pigs."

## Fattenlivg SheEp in wivter.

1. A good way is to begin early in Decamber by giving in addition to atraw, to ench aleeop eaoh day for a oouple of months, a pound ol meal, grain, or oil cake.
2. When good hay is fed, the other food may perhaps be a little reduced.
3. Feed regularly. Sheep will do better on inferior food if fed regularly, than on good food if fed irregularly. Attestod experience is in favour of feeding three times a day, morning, noon and night. In this many of the best brecders agree. Some, however, feed but once a day, and think it best. When this is done, the last feeding should be a considerable time before dark, for sheep do not feed well after dark.
4. Sait must not be neglected. As is well snown, salt is not so necessary in the winter as in the summer; still, it is nocessary, and should be fed at least once a week. Some breeders keep it before the sheep all the time, and this is the better way. Rendall mentions the practice of Gen. Marshall, of New Yoris State, which is to take the oats from the hay racks and place them in a box rack under cover. Then they aro sprinkled with brine, and the sheep when hungry for salt are not only supplied with it, but, by salting the oats, consume all the straw.

## HOW TO FEED PIGS.

A correspondent of the Minneapolis Tribune says :-" The nice point in growing pigsis to keep them growing. This is casily accomplished for the first three or four weeks by feeding the sorw buantifully on nourishing slops, bat the time comes rery early in the life of a pig when it is impossible for the sow to supply nutriment as rapidly as they are assimilating the food, and, as they have not in the meantime been taught to cat for themselves, there comes a period of retarded growth. I n\&ually prepare for this by providing a trough apart from the sow, to which the pigs can have access, and commence by giving them s little sweet milk, which they soon learn to drink greedily; this is gradually changed to skim milk, then to sour mill, buttermilk, or whey, with crumbs of bread scraps from the kitohen table, etc. As the pigs grow older I feed cornmeal cooked into a mush and mised with whey, shimmed milk, and other houss slops, and finally soaked corn, by which time they aro old enough to taise kindly to grass ond elofer, and this, with the sorked corn, boops them graming rapidly. Do not depend too largely uponcorn, but provide grass in abundance. A most axcellent foud for the parpuse of inureasing the fow of muilk may bc prepared by grinding oats and corn togother, in about equal quantities by measure, and making a alop of the misture. To this mav be added oil moal with profit. Ground ryo, barley, or wheat may be substitnted for the corn or oats, znd a mirture of all these grains will make an escellent diet; bat do not forgot the grass."

## THE DAIRY.

## DETERIORATION OF DAIRY FARMS.

Mr. R. K. Tomlinson, of Buaks County, Ponn., writos an interesting letter to the Philndelphis Press, the largest part of whioh wo copy bolow:
"Thirly or forty years ago it was the almost universal practico in this counts to apply the whole of the barn-yard manure to whent, seoded, as now, with timothy and clover. I think that the most marked examples of rapid improvement in farms that this country has witnessed wore under this system, followed as it was by the most extensive dairymen of that period. The oat orop was a heavy yiolder of straw in those days, and this, with the wheat-straw, the refuse of the cornfoddor, and usually a great mass of second-crop olover threshed for seed, found its way into the barnyard, and was mixed with the exerements of a full complement of well-fcd stock. Within my recolloction, and doubtless within that of many of my readers, is the sight of many such barn yards, with manure massed four or five feet thiok, and saved by its very depth and solidity from leaching or wasteful ferment. Nany farmers boasted of 250 to upward of 900 two-horse loade of such plant food, containing every chemical elemont needed, and more important still, giving the humus and the spongy mechanical condition of the soil necessary to withstand severo droughts; and, probably, most important of all for the olover plant, just coming into its best action the second year of itsapplication when mostneeded forgrass. Modorn barnyards, with the oat-straw, and sometimes the whole of the corn-fodder and part of the wheatstraw fed to the stuck, with no second-crop cloverstraw, and with their manure removed by driblets at all seasons, present no parallel in their offering to the wheat and clover crop. So heavy was the first season's growth of grass under the best application of this system, that James C. Cornell, deceased, one of Northampton's best farmers, found it more feasible to pasture than to attempt to mow the excessive growth; and surely such pasturing could not be harmful to fertility. Even on our sandy soils near the river, Stacy Brown and others secured a constant succession of the heaviest orops of clover and timothy by extra heary and rich manure from fattening stock, put jubt where it would do the most good.
"Fifty or more yoars ago, when there was muah latent fertility in the soil which clover better than any other plant could make available, the old maxim, 'Sow olover to improve the soil,' was doubtless correct. But now, when our soil, like everything else, is worked for all it is worth in immediate returns, that maxim needs to be reversed, and we should say, improve the soilin order to raise clover. Dairying if not necessarily exhaustive, and, if te do not improve our farms as rapidly as our fathers did, it is because wo do not make es much and as rioh barn-yard manure as formerly, and do not, as they did, givethe olover plant the chief part of the benefit therefrom.
"Insteud of outting and feeding so much of our cornstalks and straw, had we not better pass more of them into our stables and barn-farde, and thus increase the quantity, and, by their protection, the quality of our manure? Or, if wo must have a scanty pilo of frequently distarbed manure, might we not by shedding, prevent this undue exposure to Taste? If the clover plant mast be robbed of that direct inheritance, which seams best fitted to its growth, need wo, at least, pui it so far away in the order of succession? The phosphates have been proved to give as good resuits on sod corn as on wheat, ought we not rather apply them to theformer and save our barnyard menure for wheat, or at least for apring crops, suoh as potatoce, millet, or fodder-corn, immedi-
ately proceding wheat? Instond of domanding a highly' soluble fertilizer, which will fingh in the pan on the wheat orne, inad we not better supply a larger ${ }_{1}$ - antity of the oheaper and less soluble compounds whioh will reservo more of their strength for the grass crop?
"Lastly, when we aro doing all we can to reatoro the grazing onpnoity of our arable land, which has deore.sed with the deondence of elover, we should increase our soiling practice. But as a true friond and large practicor of soiling, I must give a warning uote. Clover and the grasses must atill be considered the shoet anchor of fertility and profit in dairy farming.'

## chavaing the diet of cows.

Those who have dairy cows need to bo oareful in changing their diet. Thore is a great deal to be thought of in this connection. It is a fact, well established by the oxperience of dairymon, that cows which are regulurly fod with grain while they are at pasture, uven if the pasture is fresh aud plonty, will give more milk and mako more butter aud cheese than cows equally good, but living ou grass only; yet if a liberal ration of meal is given to the corws living on the frosh grass, the first offect is to canse shrinkage in the milk; and if the cows which havo becomo accustomed to have meal with their grass, have their meal suddenly takon away, they will also shrink, tho pasture in both casos being equally frosh and plenty. The loss of milt in neither case can be charged to inforiority of the food, since the changes in feed are the reverse of the other; while the effects are alike. The effect is due to a change in the action of the stomach to adapt its character to the digestion of an established food.
Wrorrer places rauch dependence on the strainer for securing olean milk will never make gilt-edged butter. Allowing dirt to get into the milk and then depending on the stminer to get it out is a very poor apology for cleanliness. Nore or less of the dirt, especially everything of a soluble nature, and some that is not, will find its way through the meshes of the strainer.
Our English cousins have been making some very elaborate experiments to determine the relative qualities of night and morning's milk. The decision is in favour of the mill taken from the cow in the evening being richer both in butter and cheese-making qualities." The mill of cows fed ground feed in winter was richer than that produced by the same cows from grass in summer.
A.s American exchange says: "Canada has become more emphatically a dairy country than the Urited States. With a population of 5,000 , 000 , the Canadians manufacture annually 60,000 , 000 pounds of cheese, equal to twelve pounds per capita, while we, with $50,000,000$ people, make $300,000,000$, or six pounds per capita. With a population not exceeding one-tenth oi ours, their exports of butter are about oue-half as great as ours."
A day or two ago, says the Breeder's Gazette, we saw a fino, large golden-sorrel polled corv of about 1,000 pounds from the milk of which fourteen pounds of batter per week have been made this spring, and from her milk enough cream was tnken, at the same time, for the tea and coffee for a family of three or foar. Her owner is very methodical in his work and exact in all his state ments, and for years has been widely and well known as perfectiy truatworthy in word and act. The cow rias out of a high grede Shorthorn, probably of the American Wood's pattern, and hor sire a pare Gallogay.

## CйムdM.

Cowson sonse is not a common thing.-Valaincourt.
An Arab provorb: "All sunshine makes the desert."
To despise money is to dethrono a king. Chamfort.
Experience is the numo men give to their follies or their sorrows.
A ana of sense may love liko a madmad, but nover like a fool.-La Liochcfoucald.
Thene is no joy where there is no love, and love begins to die whon it bocomes dumb.
God's aimanac has but one day-that is, today ; Satan's almanac has but one day-that is, to-morrow.
Tue future of socioty is in the hands of the mothors. If the world was lost throngh woman, she alouo can save it.
A chrbrpci. tempor, joinod with innoconce, will unke benuty attractivo, knowledgo dolightful and wit good natured.
Men may say of marringe and women what they pleaso ; they will renounce neither the one nor the other.-Fontenello.
"I's saddest when I sing," warbled a young lady at an evening party; and the other guoats said: "So are we! so are wo!"
It is no mark of a wise or a holy men to boast of his being fres from error, or to rofuse to acknowledge when he is in error.
She: "So you would not take me to be twenty? What would you take me for, then?" $H_{e}$ : "For better, for worse." They are now keeping house.
"At what age wore you married?" asked he, inquisitively. But the lady was equal to the emergency, and quietly responded, "At the par-son-age.'
Every household should have at least a few flowers. Flowers oxert an educating and refining influence over children. Have a fert flowers for their sale, if for no other.
"Can't you trust mo, darling?" murnured the impecunious lover to the daughter of an old monoy-lender. " Not without real estate security," sho absentiy replied.
" Well, madam, how is youz inusband to.day?" " Why, doctor, he's no better." "Did you get the leeches?" "Yes, but he only took three of them raw-I had to fry the rest."
Annt: "Has any one been at theso preserves?" Dead silonce. "Have sou touched them, Jimmy?" Jimmy, with the utmosi deliberation "Pa never 'lows me to talk at dinner."
A Lady in the Weet of Scotland said to a certain humourist, "Really, Mr. Johnstone, there's nae end to yer wit." "Gude forbid, madam," answered the humc arist, "that I should ever be at my wit's ond:"
Lecrure upon the rhinoceros: Professor-"I I must beg you to give me your undivided attention. It is absolutely impossible that you oan form a trae idee of this hideons animal unless you keep your eyes fixed on me."
"Wuat did you say the conductor's name was?" "Glass-Mr. Glass." "Oh, no!" "But it is." " Impossiblol-it can't be." "And why not, pray?" "Because, sir, Glass isa non-conduotor." Doafening applause from the scientifio passen. gers.
Kind words produce their own image in men's souls, and a beautifnl image it is. They soothe and comfort the hearer. They shame him oat of his axkind feclinge. We have not get begun to use them in stuch abundance as thoy ought to be used.-Pascal.

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## Che Gural Cumadiat.

## TORONTO, NOVEMBER 18T, 1882.6

## INVESTMENTS FOR THE FARMER'S

 SURPLI'S CASH.The good orops of the last four years have largely added to the wealth of the country. Farmers especially have been mado comfortable in a finanuial sense. Their surplus of grain and live stook has been converted into cash, embarrassing debts have been clenred off, and bank deposits have bean largely inoreased. It is a good thing for the farmer, as well as for the business man, to stand well with the banks; but in the caso of the farmer there are more ways of establishing credit than by keoping a deposit book. There are ways, too, in which he may get more liberal returns. He may ndd to the comforts of home, maling it more nttractive for the boys, and so keep them from drifting into business, or the professions, or into mischief. Ho may provido better outbuildings, or ronovate the old ones, and so make his cattle and horses snug for the winter. He may improve his live stock by introducing new blood, or better breeds; or he may increase the productive capacity of his land by putting more manure on it, and thoroughly underdraining it.
All these are valuable ways of investing the farmer's surplus ; indeed it is almost indispensable to profitable farming that the great bulk of the cash proceeds of crops and stock should be invested at home. What is a paltry four per cent. rate of interest paid by the banks to the return made by permanent improvements on the land the farmer tills? Or what farmer with any feeling of pride in his occupstion would care to be known as a mere money-grubber? The farm is the farmer's best bank!
There is much that might be said on the eeveral forms of investment we have indicated, and especially on underdrainage. This is now a live subject with the farmers of Ontario, and we purposely select it for a few practical remarks. The need as well as the benefits of nuderdraining has been well illustrated by the vicissitudes of the present season, as every observant farmer knows. The uprooting of wheat and clover by spring frosts was very general, but everywhere the greatest damage was done on low and undrained lands: where the land was well underdrained, either naturally or artificially, the injury by upheaval was comparatively trifing. The cc! d weather and the frequent rains in April and May not only delayed seeding operations, but checked the growth of the grain when sown. Where the land was uoderdrained, ploughing might be commenced as soon as the frost was out of the ground, and the soil being dry nad warm, vegetation was promoted. In a great many instances reported to us, seed corn either rotted in the hill, or the blade perished from "cold and exposure"-it died of "too much drink," as some farmers plarase it. The rainy $5_{1}$ oll at harvest time made it difficalt in many places to use a reaper, for the ground being soaked with water, tine machine could not be drawn over it. Then the drouth of this fall greatly retardea the seeding
of whoat, especinlly on olay land, which was bakod so hard that tho plongla turued it up ia lumps. The anme laud propotin underdrais of would bo roadily workable in the dryeat boaso
Every farmer has doubtloss observed these results, and we foel confident that the lesson they tonch will not be lost. Wo know that in many sections of Outario, and especially throughout tho westorn counties, groat progress has been mado in underdraining this year. The ohief difficulty has been to obtain tilo in safficient quantitios, for the supply has not been commensurate with the demand. But this can be only a temporary drawback; lot the demand continue and the tilomalers are sure to respond to the call.
There is no botter oponing for an investment of the farmer's surplus cash than the tile-drain on his own farm I It will pay a liberal dividond in the improved crops of the first yoar, nad, bo the senson wet or dry, the tile-drained land will produce the largcst yield of grain, grass or roots.

## silos and finsilage.

There is a wide divorsity of opinion among furmers on the value of ensilaged fodder for cattle. Some denounce it as useless and baneful ; others maintain that thero is no better or healthier food, and none that gives such large results for so little monoy. It is well to guard against extravagant statements on eithar side, at any rate until the silo system has been given a fair trial at tho hands of intelligent men. And that trial should oxtend over a series of years.
Oae of the latest contributions to the stury of the subject is a special Report published by the United States Department of Agriculture, being a record of practical tests in the United States and Canada. The experience of ninety farmers is given in response to inquiries of the Department, dealing with the cost and construction of silos, the crops used for ensilage, the manner of preparing and storing it, and its value as fodder for milch cors and other farn stook.
There is, according to this Report, no nniform plan of construction, and the cost depends on the farmer's ideas of economy. It may bo only a trench in the ground, a room in a bank-barn, a cheap structure of planks or boards, or a solid structure of stone, brick or concrete. What is important is that the floor should be dry, that the walls should keep out frost, and that the reof should shed rain. For convenience in feeding stock it should be built near the stables. The cost of construction ranges from fifty cents per ton of capacity for the simplest wooden silo to $\$ 5$ per ton for walls of brick or stone.
Tho crops gromn for ensilage are corn, rye, oats, Hungarian grass, peas and clover, but corn is more in favour than any of the others, for the reason that it produces more fodder per acre. It average pield when sown in drills is about twenty tons, while some of the other crops will not yield more than four or five tons. If grown near the silo the labour and cost of drawing in may be kept down to a minimum.
The asual practice is to cut and store the crop in the green state, and before riponing beging. It is drawn to the silo as soon as reaped, run through a cutting box driven by horsa or steam power, packed awsay, covered with rough boards and subjected to a pressure of 100 to 200 lbs. per square foot; stones or sand in barrols may be used for weights. If cut in half-inch pieces it is easily pressef, and it must be borno in mind that esclusion of air is the main secret in the ousilaging of fodder. It is fit for use as soon as it has cooled, which may be in three or four weeks.
Ensilace dues not appear to be a safe food for
horses, for several oasos aro reportod whore it was beliovod to have onusod death. But for shoop and cattlo, and ospooially for milch cows, the testimony of the ninety farmore reporting to Dr. Loring, is unquestionably favournblo. A for say that ne offeots wero visible, or that tho milk supply failod, and cattlo foll off in flesh; but sovonty five out of the ninoty say that cattlo fad with it improvod in health and flesh, and that the flew of millh inoroased. "Cows always gain unloss in full flow of milk." "Cows donbled quantity of millk in two wooks." "Inorasees quantity and quality of milk." "Corws in better flesh than when takon from pnsture." "I never had stook do as well on any other feed." "Exceedingly profitable." "Thog look sleok, drink less, and are happy." "Juioy, palatable food for stook in winter." "Never baw cattio fatton as fast on anything else." "Twice as many cattlo can bo lept on thd same acreage." "Tho cheapest feed for cattle." "Botter than root crops." "The butter is like Juno butter." "The onormous orop which can be raised per aore settles tho whole question." These remarks, taken at random from the Report, indiuate the genern! drift of opinion on the value of ensilage as food. It should be added, however, that the prevailing practice is to mis with it a small quantity of bran or corn-meal ench day. Occasionally, too, some hay or oat straw is given.
The value of corn ensilago as compared with hay, is thus stated by Mr. Sprague, of Vermont: "It is a good grass orop that will yield two and a half tons of hay per acre. This would all be required hero, with six months' feeding, to winter one cow. Five tons of ensilage winters the same animal in better condition; but with thirty tons per acre, an acre of land will winter six cowe, and produce ten par cent. more milk."
If this is true, the importance of the silo systam cannot be over-estimated. It means more milk, more cheess, more butter, and (better than all these) a bigger manure heap for the farmer, richer fieldy, more bountiful crops, and a more abundant supply of mutton, pork and beef.

We hope to see the systum receive a fair trial in Ontario, and more particularly by farmors in the great dairy contres. June milk and batter in midwinter would be a treat indeed. The farmers who supply the l'oronto market with these commodities should bo the first to make the experiment. If successful it world be a boon to their customers, and a source of profit to themselves. And if it is true that the turnip has doubled the grain crop of England, may it not prove true that ensilago will treble the grain crop of Ontario? We advise cantion; but the experiment ought to be made, and it need not cost mush.

## clover avd manure.

It may seem to some that frequent cropping with clover and grain, instead of renovating the soll, will exhaust it. Experience, however, proves the contrary. Clover, it is believed, in some way draws its nitrogen from the sir. How this is done is not well settled. Some have held that the lenves had power to gather the nitrogen directly from the air, while others have thought that it drew its nitrogen from the subsoil. It is probable, however, that the leaves cither absorb nitrogen from the air, or else the surface soil, kept moist by decaying leaves, absorbs the nitrogen or ammonia from the air aud imparts it to the roots of the plant. Experiments have shown that soil on whiol olover had been grown contained more nitrogen than it did before the growth of the clover, notwithstanding the largo amounts removed in the hay. It seems pretty well proved that the clover in some way draws its nitrogen
largely from othor souroos than from the soil, and oonsequontly by growing it tho soil is mado richer in nitrogonous eloments.

Prof. Voelckor is one of the strongest advocates for olover in a farm rolation, and gives these as his conolusions upon its value and genoral character:

1. A good crop of clover romoves from the soil more potash, phosphorio acid, limo aud other mineral matters, whioli onter into the composition of tho ashes of our cultivnted crops, than any other orcp usually grown in this country.
2. Thore is fully threo times as muoh nitrogen in a crop of clover as in the avernge product of the grain and straw of whoat por acre.
3. Clover is an oxcellent preparatory orop for wheat.
4. During the growth of olover, a large amount of nitrogenous matter accumulates in the soil.
5. This ncoumulation, whioh is greatest in the surface soil, is due to decaying leaves dropped during the growth of clover, and to an abundance of roots, containing when dry, from 13 to 2 per cent. of nitrogen.
6. The clover roots are stronger and more numerous, and more leaves fall on the ground, When clover is grown for sced, than when it is mown for hay; in consequence, moro nitrogen is left after clover seed than after hay.
7. This crop causes a large acoumulation of nitrogenous matters, which are gradually changed in the soil to nitrates.
8. Clover not only provides abundance of nitrogenous food, but delivers this lood in a readily availablo form (as nitrates) more gradually and continuously, and with more certainty of good result, than such food can bo applied to the land in the shape of nitrogenous spring top-dressings.

## A GREAT COUNTRY.

Prof. Bell, in a report just pablished, gives a most interesting account of his explorations in the James' Bay region. He says that round James' Bay, and up the eastern shore of Hudson's Bay, deposits of coal and iron lio closely packed together in seams and veins of surpassing richness. Vast traots of forest also exist there with deposits of silver, copper and molybdenum. The region, in fact, so Prof. Bell thinks, will be the future Pennsylvania of the North America Continent. The clime, and Mr. Bell has spent thirteen summers and three winters there, is described as milder than that of the North-West. Moosefactory, at the extreme north of the Moose drainage basin, is in latitude $51^{\circ} .16$, the same as the Qu'Appelle valley, and further south than Battleford. Its winters are not colder than those of Manitoba generally, and are warmer than the Athabasca and Peace River countries. The average temperature for the year $\left(30^{\circ} .8\right)$ is higher than that of many parts of the best wheat-growing lands of the North-West, and less than four degrees colder then that of Winnipeg-a difference chiefly porceptible in early spring. The southern part of James' Bay district is further south than Manitoba, and on the same latitude as districts in Queboc, where wheat and oven Indian corn are grown every year. The "fercile belt" of the district is a gently undulating plain, with a sandy losm soil, and lies in the same latitude as Winnipeg. If mheat in Manitoba is an assured success overy year, it is reasonable to suppose that James' Bry district, with its large area of fertilo soil, cannot be without agricultural value. Winter at James' Bay sets in about the middle of November, the ice broaks up in April, and summer begins in the first week in June. The snow-fall rarely exceeds six inches. The summers are slightly cooler than Winnipeg summers, but warmer than those of the North-West. Late frosts are of raro occurrence, and the early frosts are seldom felt befors the second week in September.
It is certain that this comparatively unknown land has a mighty future before it. Toronto is
alroady sooking to obtain $a$ foothold thero. Moose Factory is 500 miles north of Toronto, and a soluemo is on foot to run a 300 milo branch to the Frotory from Callendar on the C. P. 12. or a 200 milo branch from near Nepagon.

## USEFUL FACTS.

SOME USEFUL INFORMATION ABOUT LAND IN THE NORTH-WEST.

Governaent Trrass-Teras of Hudson's Bay Company-Syndicate Skotions-Townsuips and Ranges.

The following information will bo of value to all persons who propose visiting the North. West for the purpose of taking up land:-
The land in the North. West is surveyed into townships, about six miles square, and numbered in regular order northward, from the intornational line between Canada and the United States, and they lie in ranges which are numbered in regular succession westrward of certain north-and-south lines, called " principal meridians," the first being about fourteen miles west of Winnipeg. There are also certain ranges east of the first principal moridinn. Each township is subdivided into thirty-six sections of 040 aores each, or one square mile, and numbered as showu on the following diagram:

| 31 | 32 | 33 | 34 | 35 | 36 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 30 | 20 | 28 | 27 | 20 | 23 |
| 10 | 20 | 21 | 22 | 23 | 24 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 6 | 5 | 4 | 3 | 2 | 1 |

Homesteads and Pre-mptions.-Any one over 18 jears of are can homestead 160 acres of Giciornment land froe, and pre-emp 160 acres along. side of it for $\$ 250$ per acre, payable at the end of three years from date of entry, without interest, or as soon as his homestoad duties are performed. But he must remain continuously on the homestead for three years, and break or cultivate a fair share of the land, say from ten to fifteen acres, each year on an average-though no quantity is stipulated-and put up a suitable house on it of course. But any hind of a house that suits a man to live in will satisfy the Government. The patent will be issued at the end of three years. A man must go on the land soon after entering for it in the office, but it cannot be taken ap or jumped by another party for sis months after entry. If a man must leave in case of sickness or any urgent business, he can obtain leave of absence from the land agent in whose district it is locsied, and his rights will be protected till he retarns. After remaining 0 , the land one year, if a man wishes be can $y$ ay for the homestead and pre-emption both at $t$ se rate of $\$ 2.50$ an acre, cash down.
No one cau homestead or preemp for another, not even his orrn brother, as such a privilege would be sure to be abused by the horde of speculators with whom the North-West is infested. An entry of $\$ 20$ for homestead and pre-emption combined is charged in the land office. A wife cannot, but a widow can homestead land.
Syndicate Terms.-The aniform prico of the C. P. Railway lands is $\$ 2.50$ per aore, pajable one-sisth down and the balance in five years, with a rebate of $\$ 1.25$ for every anro brought under cultivation within four years. By the new regulations just issued, every settler must cultivate one-ighth of the land he purchases each year.
Hudson's Bay Company Lands.-These lands are offered for sale on easy terms of payment. The prices range from $\$ 2.50$ (108.) to $\$ 0$ (28s.) per acre, according to location and other circumstances. No sottlement duties required.
The terms of payment are: one-eighth of the
price in cash at the time of the salo, and the balance in seven equal auuual instalments, with interest at seven por colct. per annum on the amount unpaia.

Reserves.-The above proviitons shall not apply to lands valuablo for town plots, or to coal and other mineral lands, or to stone or marble quarries, or to lands having wator-power thoreon; and further, shall not, of course, af eot sections 11 and 20 in eqch township, which are publio soluool lands, or sections 8 and 26 , which are Hudson's Bay Company's lands.

Timber for Settlers.-Homestead cettlers, having no timber on thoir own lands, can purchase wood lots in areas not exceeding twenty acres each, at a uniform aate of $\$ 5$ per acre, to be paid in cash.

## CLRRENT NEWS ITEMS.

Tre West Middlesex Agricultural Sooiety took in $\$ 405$ at the gate on show days.
Mr. Rodert Buck, of Watsontown, Pa., recently purchased a bull calf from Mr. Fuiler, of the Oaklands Jersey Farm, for which he paid $\$ 000$.

Mr. Alex. Cranston recently sold the pine on his farm in North Dumiries by tonder. The highest tenderer was Mr. James Barton, of Roseville, $\$ 2,710$. There are about 430 trees, and the price id considered a good one.

Tire farmers are very backward with their fall ploughing, oring to the ground being too dry. It is almost impossible to plough clay land. The corn crop is the best for years, and the season has been so favourable that farmers havc saved the corn in good shape.
$W_{\mathrm{E}}$ are informed that ripe blackberries, and also white berries, wero picked from bushes in Mr. Geo. Kiug's gardon a day or two ago. They were full size, oxcellent flavour, and in all respects equal to what they would be in the regular season. So says the Berlin Netes.

In the Montreal market, says the Recorder, Brockville butter is quoted at from 18c. to 20c. per pound, while Morrisburg butter is quoted at from 20c. to 21c. per pound. At one time the Brockville article was considered equal to that of Morrisburg. Our farmers had better look after their lsurels.

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## BEES AND POULTRY.

BI:F AND HWNFY SUOW IN SCOTLAND. The following is from the Inndon Jurnal of Hurticulture:
The Esst of Scotiand Bee keopers Soorty held ats annual cslabition at Dundee ou August 31st and two flluwing days Notwithstanaing tho unfaboumble nature of the seasun, the display was unusually full and of spleudid qualicy. Many of the leadiag bet kecpers in the lorsland districts rere nuablo to stage a single exlabit, but those frum the nitenor and highand distnets canic furmard in force with large and well finshed sut. Altogether, about $2,000 \mathrm{lbs}$. of honey were stancu, and crars clan was well cumpeted in. The most strahing exhibuts were those in the classes for the must artistic displays over and under 100 lbs . Mr. Haitt was first in buth clases, and lus cribibits were jastly admared for their uxcellent finish and tastefal arrangement. Part of the same lots towk tro first prizes at the great Preston Show in the folloming week, and there elicited many comments highly flattering to Scottish beakerpers. Altogether, there were seren entries in the display classes, and in all the quality of the honey was very jair. The poor taste shoma in the arrangement of some entries where shclves and stages were rolied on, received a check in the amards of the judges in favour of those exhibiting less carpentry work, but more varictr in the size. from and decoration of the sections and glasses of extracted hones.

In the classes for living bees the exhibition was unusually full, nu less than ten observatory hiven being staged. cuntaining bees of foar dafferent races-blachs, Italians, Csyrian', and Syriaus. Besides these, there wire find neat nests of humble bees and one enornous "bjke" of masps. Sereral of the observatory hives presentel novel festures in the derection of an attempt to keep the combs in their natural position side by side, while rendering them capable of individual inspectoon. The vae exhainted by the Steretary, Mr. Warden, accompheshes this by harang the hare doubic the usual heaghi, and so arranged that the psdded quast conld be raised $t$, the top, and any scparate frame theresite hifed to a position open for inspection.
 L.IGHT HR:JMM.AS.
H. S., Bergen counts, Ni.J., gires the following statement of the income frum a fuck of oleren Light Brahma pulleis and une coch frum Juls 1 , 1981, to Jaly 1, 1852, whea thay trere unc jear nad. The rathets beran ta las un the 15th of Nic vember, shen they nure five and a inalf months cld. The account stends as follows: Fiftyeeght dozen exss. sold for $\$ 17.50$, serenty-three chackcon rased, atcraniag tro puunds sach, now rorth twenty fue wots par yuaud, §36.50, ona cock ased, wesglued tredro trauds, at fifteen cents per poand, Si so, cleron be is on liand, feughag in all ninrij-mare pounds, werth fifteen cents per found. Sis.65; total, S63.45. The cost of fecding the fixet has not been kept secount of; tho fowls have had the ron oi a small swampr meadon, and haro fcJ largols upon kneils, Forms and grang frogs, so thas die crisa giren them has lain in the yand nejlected for tro or tiareo days before it was picied ap. Tisey have certainly not concumed, all Lold, Gro bashels of corn in the year, Khichincladestionngroductire period of their ramring. Tro of the hens set: fice end cach brought nat two brivis: thr browds wiro put ingnther and dirisud xinors the lirus, $\infty$ that no ono lisd loss than sixtern chiriss and naly four wero cooped un. The beds were ect two at the same time far
this purpese Only nue chick was lost out of seventy-four hatched.

## BLIPRDS FOR BROILERS.

The modern poultry raisers look for size : and brolers should present plump breasts nud small bones These qualities cannot be obtainod with the great Brahma or Cochiv, but are mot with in tho game, Leghorn and Dorking of the Eng. heh, and the Crovecours, Houden, and La Fleche of the French varinties. An important point is to produce an early feathering breed, 38 then maturity will come in a degree sufficient for the early chich. The bnne of the Cochin is ton henvy, and the feathering is ton tardy for the early chacks, but they do admirably for ronsters The Plymouth Rocks are better adap ${ }^{\prime}$ คd for this purpose, as they are smaller forls, the Domi ique blood gring them more early qualities The little French Dominiques, a dark, plain fowl, are admarably fitted for this business, as they are always of short, plamp body, and make rapid gromths, the feathering and maturity beeping equal pace. Thes are also good forls to produce eggs, but are more uncartain than the Leghorn for all seasons, all chmates and under ali carcumstances. Hamburgs are great egg producers, like the Spanish, but are white shinned, which is oftentimes an objection. - Cuintry Gentieman.

## WTATER (CARE OF FOWLS:

In building a hen-house, the requiroments of the forls are alweys to be considered, these are warmth, light, fresh air, an carth floor and sufficient spare to aroid crowding, and alluw of freedom, as a hen rill not do well at laying unless she is contented. Hence, there must be space, not only in ground surface for frcedom, but height for better rentilation as well, the windows so arranged and of number and size, as to admit copions air in summer. There are needed in winter a row of low windows on the south sade for light, doubling the sash in Finter, this 18 necessary for warmath, and does it effectually, as it forms a dead air chamber, singlo glass admitting cold mithout any benefit frow the air. If the building otherwise is well fortified agsinst the cold, and double sash well fittod is used with dry earth floor, fowls will do well if a good breed for minter laying, like the Aciatics, and mell taken care of, the care to be constant, end required mute in minler than in sammer. Fresh water mast be suppliod with a raricty of food, meludeng oscasional fecds of regeisbies and meat of some hiad, corn being the principal gran, affording heat as well as snbitance for eggs.-Country GenUlman.
Fowzs at this season should bare their liberty as much as possible, be fed bat moderstely with corn, for it is two heating and fatteniug, and be compellad to forage for a part of their living. It will do the- good te glean the whest fields and scoar the hay fields for msects. Excrese is as healthfol in summer and fall as in ninter. Care ahnold altags be taken, hofcrer, to hare some shelier from tace sun prorided; and also to linse a bountifal surply of water within their reach.
Bers need management just as much as horses, cattle, sheep, poultry, or ang other kind of farm shock. What profit would sou dorivo from your farm stock if left to themsdios? Very little could bo expected; precisely so with your bees. We do not hesitste to sar, becsuse tre know from actoal experience, that there is a profit derived inom kerping bees, which is just as sure as tho annual product of an inteligently managod farm or garden, but a parson must hare some adapta-
tion nad taste ius thom, and becomo thoroaghly posted and acquainted with the nature and instinct of the honoy beo, and then have a hive that will admit of access to thom, so that they can control them.

Dr. M. Manin, of Huntington, Iud., in an articlo in the Beo herper suanie, un the beot Bees, gives at as his uphava, that ' the Syramar or Il uly Land bees are groatly supurion to eithor dark or light Itahans" Then he adils. "In une thing I have been disappointed in then, and that is thear want of uniformity in culutur. I presume that Mr D. A Junes [our Canadan Bee linge] procared beeq from different parts of Palestane and Syria, and that thoy difired in coluar, and tho crossing of these barietico pruluceb tho variation in col sur in the progeny of the samb uneen. Mr. Jones deserres the everlasting gratitude of the ber kermars of Nurth Anerica fur introducing these tees, and nut unly their gratitade but their patronage. I an ou well pleased with them that I propose to Syrianuse my whule apiary within a year or two if I live.

The approach of Thankegiving suggests to our mind how very carcless the majur purtion of our farmers and suburban poulterers are, when they have every facility to raise turkeys every year for market, but after all fall to do so. Dacks and geese of the improved breeds are profitably raised on many farms. If a supply of rater can be given them, all the better. Good feed is more important than water to swim in and fish for bugs. The Romen duck stands pre-ominent among ducks were size 15 the consideration; the Aylesbury drake sometumes attaming equal size, but the Aylesbury or any other duck seldom dues. lhe white Cuma geese have them admarers, for they have merts of no mean order, though for size the Toulouse geese are preferred to the former, while the Eubden or Bremen have many enthasiastic friends.-I'esiern Agraculturist.
Taf following hint from our good friend of the furerical Rer $I$ irnal, is in order. But tee sub. mit the rule should be extended, so as to take iu every depart mot of rumal affairs, in writing upun which mon are apt to differ. Currespondents oi the Mrbal Cavadiay, we feel certain, will ever bear this in mind:- Honest discussion of every throrg in bee heeping is to be desired and courted, but such discussion shunld never desceud to ankind personal remarks. We admire the sentiment expressed in the following from one of our exchanges: "Discussion has fur its irue object tn elieit truth Wher this is the object suught gitar, it is profitable to hear buth sides of tho argument Bat mhicis the argument becumes interlarled with low personalities, hunoursble men rilhdras from it and leave the field to the hero of the hour. He stands alone in his glory."

Sonetiaes an ounce of prevention is worbe than a pound of disease. One day last reck the chaldren came rummag in, shruehing that a bug hank mas curclug over the pouitry-5ard Old Farmer Thistlepad dropped his paper, canght his trasty gan from the rack, charged for the poulteryyard. He ran right over a bee stand just the olher side of the cypress bush, and was stang in thirts different places before he jamped over the fence of the poaltry.jard, alighting apon the old blsois her thrit ras broodiag thurtoen chicks, breaking her nock, and mashing fire of the hapless " Fectles;" the gun caught in the feuce as ho jumped, and want off, killing 8 young tariboy, and filling tho Dorham heifer in the mendow nearls fall of backshot: while the bamk, nlono calm and self-pessessed in the midst of the tumult and confusion, sailed gracefully sway mith the ono ofring chicken he had ail along intonded to lery 00.-Diurdetue.


Flowers are lowes truest langungc.-Park Benoman.

God might have bade the earth bring forth Enough for great and small,
The oak-tree and the cedar-tree.
Without a flower at all.
He might have made enough, ennugh
For every want of ours;
For luxury, medicine, and toil. And yet have made no flowers.

Our outward life requires them nit-
Then wherefore have they birth ?
To minister delight to man,
To besutify the earth ;
'l'o comfort man-to whispor hope. Whencer his faith is dim ;
For whoso careth for the flowers, Will much more care for $\mathrm{H}^{\prime} \mathrm{m}$ !

## HOME CIRCLE.

## A TALE OF ROSSIA ONDER NIOHOLAS I.

In ono of tho splendid palaces of the Russian capital, a fair young girl threw horself apon the arimson oushions of $a$ divan in the ombrasure of a largo win. dom. Alarm and ancioty wero depicted on her featuros, and she coustantly olaspod and unolasped her small hands, and nervously aroso and looked out into the streot, and thon reseated herself as if waiting for some painfal intolligence. It was the fair young Natalio Radetski, tho beauty of the Russian court, opon whom nature and fortane had showered every gift, and for whom even the stern features of the Emperor Niaholss would relax into somothing like a smile as he lookod npon hor beauty and graco.
Hastily the door opened, and a young man advanced tomards her.
"I am to bid you faremell, Natalie," ho said in a voico broken by emotion.
"Oh, Alexis! what is it?" cried the young girl.
"I havo displessod the Emperor, and he has or dered my arrest.'
"The Emperor will pardon you-I will go to him," said sice. "He will not rofuso me. Ho has always been so kind to me."
"Alas I my Natalie. He will refuse you this. The Emperor believos me concorned in a conspiracy, and he never forgives. I am innocent, bat he will not beliere it. I know not what is to be done prith mo: but if I am sent to Siboria-_,
"To Siberia! Oh, Aloris! it cannot bo-it cannct be!"
For a moment neither spoke. At longth, with a porverfal effort at self-control, the yoang man saia, "Natalie lot mo place this sing upon your finger, and promise mo that you rill wear it alrays in momory of what my love has been to you. The Emperor will force you to marry. I do not rish the thought of me to make you always wretohed."
He placed upon her finger a ring, in which was a single emerald of great brilliancy.
"Do not take it off, nor resd the inscription, till you hear certainly that I have been banished," he said. A shiver of horror ran through her frame, but ho went on firmaly: "Then read it; it will comfort sou. Now I mast go. The Emperor allowed me this interview, and the guards aro awaiting me."

He clasped her convalsively to his breast, kassed her brow and lips, and laying her lgontly apon tho divan passed ort. In the strect the guards amaited him.
The rords of hor lover did not dotor Natslio from attempling to sare him. She senta petition to the Emperor, implering an intorvion; bat it was denied her. She raylaid the Empress.
"AIy poor child," said tho Empress, hindly, "I would gladly take you to the Emperor, oron at the risk of incurring his displeesaro; bat it is too late. Alaxis Potemkin has been sent to Siberis for life."

## Natalio heard it rot.

"Lift her ap," said the Empress; "she has fainted." But Natalie had not faintod. Slorly, but zosoIntely, she rose, and malie a gature of respectfol submission to the Empress, begsed leave to rotire.

When Natalio rescincà her own spartment, sho drow from her fingor the ring that Aloxis had placed apon it, and rosd tho inscripion carvod upon tho inside in French-"Death is the only consoler," it said. "To shall meot in leearan!"
There is no place more draary, more terrible, oren in imagination, than tho mines of Siberia.
dmong the condemnod, in a largo queksilver mine in tho rers heart of the conntry, thousands of versts from St. Petorsburg, etoopad at his daily toil a form whoso tall snd noble proportions oren his cosrso habit scarcoly shrouded. Elis delicalo frame, raased to labour, and axposed to tho rigen of an Aretic climato, coon yieldad to tho anhoallhiness of his occupation; and ho wiss fast sinking under his trisks. Yoe, dasth rould ocme, gontlo desth-and his heart loapod with 3 momentary jos.
The stragelo nas not long. A fow dags of confinement to 2 bard pallet, a fer nigite of sufforing, and the fiat, which erea an imparial decroo conld not stop, pont forth. Tho riction was relcasod.
Throo months after this, tho Grand Chamberlein of Ruscia, yrosentad himsolf beíurn MMla. Raciotski, and summonod her to the presence oif the Emparor.
Whed conduciod to the paleoc, Eis anajosts dis-
missod the gontloman.in-rvaiting, and bigned her to approach. His stern featuros were contraoted by an oxpression of deep displeasare.
"Why doos Madomoisolle Radotski trar mourning?" Le said. "Does alho mourn for oonspirators who would subvert tho Government and bring dostruotion apon thoir country?"
"No, siro," sho answered. "I woar mourning for ono Fhom your Majesty sam fit to oondomn, bat to Whom, by your express command, I promised my hand."
"Wo will not discuss the past," roplied the Czar, coldy. "I sent for you for a difinront purpose. I havo choson a hasband for you."
"Morey, siro!" exolaimed Natalie, olasping her hands imploringly. "Do not forco mo to marry."
"Force, mademoisolle! that is an ugly word. I, your Emperor, recommend your acooptance of the suit of a young nobleman of high rank. There are reasons of state which make me oxprossly desire this marriage. And, Natalie," he added, his harsh tone and mannor softening visibly, "grief should not be eternal. Life is not given as to wasto in idle sorrow for what is irromedisble; and new ties will bring yon solace, and, in time, happinesss."
As she pressed hor hands to hor busom, in a momentary spasm of pain, he observed the glittoring emereld that encircled her finger.
"So splendid a jowel is harully befitting a mourning garb, Mademoiselie. May I 500 the ring ${ }^{\prime \prime}$
Poor Natalio marmarod faintly, "Yoar Majesty will not take it from mo?"
"I will roturn it," replied the Emperor, as he examined the inscription. "Dgath, the consoler !" ho marmared to himself. "Yes, death is the great healer and comforter."

Eis rigid features relaxed into an expression of deep pity as ho remarked her wastod appearanco and pallid features; but nothing of this was perceptible in his tone as he said, "It is my rill, Mademoisello, that you shonld be married a month from this day. The time will come when you will thank mo for this decision. Foa can now retira."
As scon as Natalio had left, the Emperor rang his bell for Dr. Seckendorf, his farourite physician.
"Seckondorf," said tho Czar, "go and soe Miademoiselle Radetski. Find out if she has any organic disease. Retarn here and roport, bat say nothing of what you observo to any one olse."
In a forr hoars Dr. Seckendori was again admitted to the prasance of the Czar.
"How is your patient?" inquired Nicholss.
"I fear vary ill, your Majesty. She has aneurism of the heart."
"Is there say immedinte dangor?"
"There may not bo, if sho is not orcited. But violant agitation or griaf may provo fatal."
"What has ornsed the disease?"
"Her constitution has alrays been frail; but I think___," hero ko hesitatod.
"Say what you thins," said the Czar, impstiontly.
"Then rith your Majosty's permission, I think that the sentence of Count Potemkin was har desthblorr."
The Czar paned his cabioot impatientis. "Sha will get overit, Seckendorf. A harps maxriage will mako her forgat all thst. Thero is nothing like happiness for a moman's health."
"I do not presuroo to contradict your Majesty, bat I doubt whother Mademoisclle Radeteki is sble to bear eithar happinoss er sorrow vary long."
Tho Emperor dismissod his physicisn, after enjoining him to visit hus pationt daily. In tho meantimo tho preparations for tho merriago weat on. A aiotls trokssoar FIS provicod for the bride, and all the beanty and rank of the capital invited. The Emperor limself ras to grace tho ceremony with his prosenca.
But still Dr. Seckendorf visitod his pationt, and his faco grow grave as he looised at fres.
Ono morning to roached her mansion at a later hour than uanal. Hor attondents informed him that their mistrass had not get rang har boll, and thoy heritated to distarb her. Ho wont at onco to har apartmant. Tho attendants drow aside tho curtains of tho bad. With cre hand cupporting her haad, which restod apon the pillow, lay the palo sleopor, lass brilliantls beantifal than whan, with provd step and caraloss grace, sho trod the gergeons satoms of the capital, but far more lorals.
Doath, the consoler, and stooped to kiss his
viotim, and had not disturbod the poaceful mailo that rostod on her lips. In hor hand ahe held the ring, whioh sho had takon from hor figgor, and alo had passod away whilo reading its insoription.
Gontly Beokondorf roplaogd it upon the marble fingor, from which it was nover more to bo takon.
"Traly," ho murmured, "for hor, Dosth is tho oon. Boler."

## A DAUGHTER WORTH BAVING.

"Harvey Mfills has failed!" said Mra. Smithson ono obilly spring evening, as she ran in to 500 her noxtdoor neighbour and intimate friend, Mrs. James. " My hasband just came home, and he says that what We supposed to be a rumour only is a sad faot; the assignment tras made yestordag. I throw on a shawl and ran right over to tell you. They are to keop the hoase uncer some sort of an arrangement, but they have disohargol all their servants, and what in the world the Nills's will do, Mrrs. James, with Mirs. Mills's invalia habits, and Miss Helens with her dainty ways and refinod bringing np, is more than Iknow;" and pretty, shallow Dirs. Smithson looked at her nerpe-loving friend and noighbour with the air of an opicure regarding somo favourite dish.
"I hoard all'about it late last evoning," baid Mrs. James, adjanting the pink ribbon at the throat of her black silk dinner-dress, "and this morning I presumed npon our coneinship so far as to drive over and see how thos were getring slong. And really, Mra, Smithson, you will be surprised whon I toll you that, although I expected to find the family in great confasion and distress, I nevor saw them in such a comfortable way, and in suoh good spirits. The worst was over, of courso, and thoy had all settled into the new order of things as naturally as oon!d be. My cousin, Mrs. Mrills, was sitting, as calm as you pleaso, ap there in her sunny morning-room, looking so fresh and dainty as sho ate her orisp toast and sipped hor coffeo.
" 'Our comfortable and cozy appaarance is all due to Holena,' sait she. 'That dear child has taken the helm. I never dreamed she had so mach ezecative ability. We trere quite broken down at first, but she made her father go over all tho details of business with her, snd thoy found that by disposing of Halona's grand pisno, the paintings, and slabs, and oostly bric-s-brac her father had always indulged her in buying, Fe could pay dollar for dollar, and so keep the house. Mry husband's old friend, Mrr. Bertlett, who keeps the art store, you know, and who has always takon a grest intarust in Helena, bought back the paintings, statuary, resos, oto., at a small disconnt, and Baker, Who sold us the pisno a year ago or so, and who is another old friend, snd knet, of courso, jast how wo were situated, took it back, doductiong only twentsfive dollars.
""Findeus has just gono into the kitchon. What sho will do there I don't know, bat she says ahe neods tho oxercise, that ghe has not attondod tho cookingschool hero in the city for nothing, and that, so long ss the meals are scrved regularly and properly, snd the bouso is kept in good ordor, her father and I are not to worry:' biter she told methat, I drow my call to a closo, and ran down into 25 cousin's kitchen to see her daints daughtor there. And what do you think? I found the girl at tho sink, with har slooves rolled up, an immonso taterproof apron on, washing a ketllo!".
"Warfing a kettle?" repantod Mrrs. Smithson, holding tp bcth her soft, whita hands in unmoasurad astonishmont.
"Yes, Mrrs. Smithson, washing a groat, bleck, gresey iron kettle that maat had boon boiled in, and that had been loft unwashod and gummy when the cook loft. And, do you know, sho mas laughing orar it all, and sariig to her youngest brothar, riho stood near by, that sho roally liked it, fo: sho now falt sho wes meting hersalf esefal."
"Tho ides ! liking to wash kettles!" and tho tro fine ladies looked at each othor in opon-oyed wonder.
"It soems to mo as if Filcona lille nas trying to maks tho bost of her fathor's altared fortanag, and was simpls doing har dafy in the promises," spoko Mise Curiton. Ida Jamse's now drawing teachor, who सrat that avaning angegoū in giring har pupila lemon on tho opposite side of the contre-table. She spoke oarnosthy and yot in a mudast may, and it baing the rogro in Nofr City jost than to patronize Ariss Cariton,
the protty, acoomplishod graduato from Vassar, tho wo ladies lookod at her amiably, and sho wont on :
"Somobody must wasin tho kottles, and it is alvays best, whon ono has a disagreeablo duty to perform, to do it not only at once, but cheerfully.'
"Yes, perhapa," roplied Mre. Smithson, " bat how oould a young girl of roal native rofinemont " (both sides of tho Smithson family were of the "old stook") "take so kindly to washing pots and kettles? Tho fact of it is, yeoplo have beon mistakon in Helons Mills. Sho novor possessed that innato gontility she has oredit for. But evory ono finds thoir own lovel sooner or lator."

These two women having thus summarily disposed of Helena Mrills socially, thoy repeated thair belief that the lorsis and dutiful young girl had now found har proper lovel ovor and over in thoir set, until it was the common talk in Now Oity.
Miss Carlton, in her round of professional calls among the so-called elite, was entertainod in nearly ovory household with the informetion that Helena Mills had given ap ber studies uven, and gono into the litchen to work-"and, if you'll believe it, sho likes it /" Then would follow reflections upon the natural ability and bias of mind of a young woman who ras "fond of washing dishes."
This sensible, accomplished littlo drawing teacher wes the only one to be found, who mingled in the " upper circles" of New City, who said a word eithe in praise or defence of Helena dills's now vocation.
Miss Carlton always and overywhere protested that the young girl's course was not only praisoworthy, but beantiful. She maintained that every moman, young or cld, high or low, who took apon herself the labour of elevating the mach-abased as well as depised vocation of housework-apon which the comfort of overy home depends-to a fino art was a pablic benefactor.

Miss Carlton's friends all listoned and laughed, and then wont on with their sensoless and malicious tirade. She was heartily glad when her engagements in New City were ended, 'and she was no longer obliged to more in such " solect" socioty, whose ideas wore almays a more echo of opinione-no matte= how trivial and foolish-which had been expressed by a fow of its mose wealthy members.

Mrrs. Dr. Forbes, nee Miss Qarlton, had heard very little aboat New City socioty for five jears. But haring ocossion to pass through the place on the cars lataly, sho treated herself to a little gossips chat with the conductor, whom she had known es a New City gallant.
"Thore is no partiouler neks, Mre. Forbes," said ho, "unless it is the engagement of Helena arills to young Lamyer Barllett, bon of Col. James Bartlett, you remembor, owner of tho big cornar art store. A capital choice the young squire has made, too. She's as good as gola, and overgbody says sho's tho best girl in ihe city. She's a perfect lady, withal, and trests avarybody woll. Why, bless you, 3rrs. Forbes, whan hor father failod in ' 75 , sho took entire charge of the family, and she has managod the houso ever since.
"Her fathor is now in basinoss again for himsolf, and amploys more mon than ever. Her mother, who had been an invalid for jesrs, tras forced by Helona's examplo to try and orert hersolf so as to share her daughtar's barden to some oxtont. As a result of the nem, actire life she hes followed, sho lost all silments, andis nuw shappy, hasty, healthy roman. Helona's brothers havo grown up to bo fine, manly, helpfol fellows, and the wholo familg are bottor off every way than ovar beforo. As things nero going on beforo Mr. Mills's failure, the whole family were in danger of bsing spoiled by too mach luxary.
"Tharo wis a groast dosl of talk at first among tho big-bugs about Helona's 'pots and kottles,' and they usod to say sho had found her trac 'lovel.' I always thought thoro was a spico of malico in thair tailk, for the girle onvied hor banaty and acoomplishmonts I am rather fond of talling thom now that Helena acills lien foand her 'leval' in tho richest, most infiuantial, and just tho best femily in Now Cits."Okrisdian at Work.

Nrasiy all the fanmers of Iowa who have been troabled by the cycloses of the past season have prorided agazast fature lose of life by digring oatside cellars, into which they end ubcir familise may setire in future possible sionilar emergencies.

## OVER THE WIRES

I hoar a faint, low singing,
Like the sound of distant ohoirs: This a masage gloofully ringing Ovor tho tolegraph wires.
And what aro the Rlad wires humming,
As thoy atrotah in tho sunlight away? "I am coming, coming, oomingI am coming hoare to. day !"
And now I hear a sobbing.
Liko enme soni gitting alono,
With a heart that is wearily throbbing, And lips that can only moan.
Oh 1 what are the sad wires sighing,
As they rosoh through tho darkues As thoy rench through tho darkuess of night ?
Ho is dying, dying, dying-
Come on tho rings of light!"
Tho titillation of langbter
Nozt falls apon my ear,
And a burat of mad mirth after,
Like a sound of a distant choor.
And what is the gleeful story
" That the round fire spreads afar?
Oar nine is crownod with glory-
者
Oh ! what are the wires relating,
Morning, ard noon, and night?
" Tho market is flactanting!"
" "Ruport of the Sanato fight!"
"Cashier 8-a defaulter!"
"Arrest a man named Broma!",
" Jones died to-day by tho halter!",
"Desd I" "Born !" "Going I" "Coming I" "Desdage!" and "Dronght!" and " Pires!" Singing, and tobbing, and hamming, Over the telograph wires.

## THE TIME WHEN WEE JEANIE CAM

A BHEPEERD'S WIFE'S EXPERIENCE.
I aye mind the time; I hadns been sse weel; I was low in spirits, and dreaded her coming much. I had a sair time, but the Lord carried me through, and added anither wee lamb to our fleck. But monie a day had I to lio in bed. Often I was low in spirits, bat aye somehors I got a lift, and got cheerio again. When theg were a' out, I would lie thinking about a' our straits, and things looked black enough, for we had had mech trouble.
John's mother lay lang bedfast wi' n6, and wo wadna hape a haspenny frae the parish. No a week for many months that the doctor wasna out seeing her Then she was ecaroe taen away, when our wee Johnnie took ill $o^{\prime}$ fever, and after a month's sair feeht between lifo and death, was also ca'd away. Wo were deop in the doctor's debt, and I thought o't $a^{\prime}$ the time the kind man waited on me. The miller also had an account standing against us, that ne couldna sottle last term. Then, to make things waur, the spring had bean very brashy and canld, and monio $0^{\prime}$ the lambs dead, and those which lived wero bat sually.
Weel, one afternoon, as I lay thinking aiout a' thae things which secmed sae sair against us, I couldna help grecting, and I mas sar woary and sad, that I thought if it rasne for John, and the bairns, and this weo lammie in my bosom, I red like to deo and be at rest. As I ley wi' the tears ranning orro my checks, I conld hear Jobn away out on tho hillside cryng to Rover the dog, and it minded mo o' the happy timo whan he cam courting mo, whon the sound $o^{\prime}$ his roico made me sRo glad ; and I thought how wrang it was to wish to leare him, pair man to fecit on alano. Somohor also tho distant cry $0^{\prime}$ tho Fhapps, and parling $0^{\prime}$ the bit bara st the bottom $0^{\circ}$ the yard, ronning doon amang the rochs, choured me. I thought tho bird-crics coming away orrre tha mair and that parling $0^{\prime}$ tho barn rery 5 woot music. and my mind Fanderod efray to hearen, and I thought $0^{\prime}$ ' the saved a' safe thero sonading their golden herps. Thon tho wand cam whushing and whashing round by the houso corner, betwoon the heuse and the anld tharn trice; and the lang branch, that the last storm nexrly broiso aray, cam aspping and tapping at the Findow baside my bed, and this did me maist grid $0^{\circ}$ si, for i mas minded o' tho 'last sommon I hesrd our ministar prosoh, on our Lord's roads, "Behold, I stand at the door and boock: if any man hoar my voice, and opon the door, I will came in to him, and will wap rith him, and ho with mo." And I thought smats tho Iord was knookin' at my door, in a' this tronblo, and Fanting to have a constant pleco in my heart.
Then I got a monderial onigato, and the Lord Eimsol can in, and I found swoot rost in Eim. Ho
calmod my sair troubled heart in a way I never folt before. And Ho brought to my mind the texts my auld grandfathor taught mo, whon I was a bit lassie: "Cast thy burdon upon tho Lord, and Ho shall sustain thee." "I will never leavo' thee, nor forsake theo. So that we may boldly bay, The Lord is my helpor." Weel, I havo read in Bobton's Lifo, and in Elizaboth West's, and in those of ither believers in Jesus, $o^{\prime}$ tho happy times they somotimes had, and how they wore feasted at the King's table, and saw His kind face, and heard His words of love, bat I never could bay that I kend anything o' such an experienco till then. It was to mea real time o' love. The Lord suroly cam very near, and ane lifted up my heart, that I got aboon the thought o' $a^{\prime}$ my tronbles, and I cried out, like David, "I will go in the strength of the Lord God."
My heart was made glud, and it was better to me than a' medicine. I soon got weel, and the doctor wadna hear o' sending in his account for monie a day, but we aye sent him something as we would. The lambs also brought a higher prico in the market than we expected. Wee Jeanio also has thriven nicely, and looks ap, tho wee lamb, in my face and laughs in such a happy way, that eho makes me laugh wi' joy, and aye leads me to think of the Lord's love to me when I sae low and sad.
We may hae much $0^{\circ}$ life yet before us, and I kon that this lifo is fall $o^{\prime}$ trials, but I learned a lesson then which I can never forget, which will carry me through a': no to fecht wi' trials in our ain strength; far less to lie down and greet, as if a' hopo were gaen, but to carry them $a^{\prime}$ to Him who will never desert His people in the time $0^{\prime}$ their need. Yes, the time whan Jeanio cam, was a time mhen I had to sow in tears, but the harvest soon cam, when I reaped wi joy. Weel may I mind it thon, $a^{\prime}$ through this life, until I get where poortith and sorrow never come.

## GUOD ADVICB.

Mr. R. S. Bardette, ho of the Hawkeye, gives the following advice to a joung man:-
"Mry son, when you hear a man groming and scolding becauso ilfoody gets $\$ 200$ a moak for preaching Christianity, you will perceive that he nover worries a minute because Ingorsoll gots $\$ 200 \mathrm{a}$ night for preaching atheism. You will observe that the man who is anatterably shocked because F. Marphy gets \$150 a reok for temperance work, seems to think it is sill right whon the barkeoper takes in twice so muoh monoy in a singlo day. The labourer is werthy of his hire, my boy, and he is jast as worthy of it in the pulpit as he is upon the stump. Is the man who is honestly trying to save your soul worth loss than the man tho is only trying his loval best to go to Congress? Isn't Mroody doing as good rork as Iogersoll? Isn't John B. Goagh as mach tho friend of homanity and socigty as the bar-tender? Do you want to get all the good in the world for nothing, so that you masy bo ablo to pay a high price for the bad? Femembar, my boy, tho good things in the world aro always tho abcapest. Spring water ecsts less than cors whiskey; a box of cigars will bay two or three Bibles; a gallon of old brandy costs more than a barrel of four; a 'full hand' at poser ofton costa a man more in treenty minatos than his church subscription amounts to in threo jears; a Stato clection costs more than a roviral of religion; you can sleep in charoh orery Sundag morning for nothing, if you aro mean onough to dead-beat jour lodging in that ray, but a nap in a Pullman car costs roa tro dollars every time; fifty cents for the circus, and a ponny ior tho litito onos to pat in the missionary box; one dollar 102 tho thostro and a pair of old trousers, frajod at the end, bagef as to the knoo, and utterly burstod sis to tho dome, for the arichigan sufferars; tho dancing lady who trius to wear tho khirt of har dress undor her arms and tho waist around hor kneas, and kicks her slipper cloar over the orchostra chairs ovorg night, gots $\$ 600$ a reak, and the city missionsary gats $\$ 600$ a jear; the horso-race scoops in $\$ 2,000$ tho first day, snd tho charch fair lasts a week, works twenty-fire or thirty of tho bost Fomen in america noaris to doath, and comas oul FSO in dobt. Why, my boy, if ycu cvor find yourself snecring or scomog bocauso once in a philo yon hoar of a preschor getting a living, or oron a larurious salary, or a tamporance worker making monoy, go out in tho dark and feol ashamod of yourself, and if you don't feel abovo kieking a moenn man, kick yoursalf Procious littlo does religion and charity cost the old Forld, my boy, and when tho money it does givo is flung into his free, lize a bono to a dog, tho donor is not benefitod by tho gift, snd the recaivar is not, and cartsinly should not, to gratafal. It is insulted."

## YOUNG CANADA.

SOMPETHING TO DO.
Think of somothing kind to do,
Nerar mind if it is small;
Little thioge aro lost to riow.
But God scoea and llesses all.
Violots are weo, modest llowors, IIiding in thoir bods of green: Bat their pariame fills tho bowers, Though thoy scarooly oan bo sean
Protty blaobolls of the grove
Are than peonies more sweat; ALoh theirgraseim bloom wo lovo

So do litllo acts mo ind,
Which at first we cannot seo,
of abiding charity.
JUnP'S PUPPY. FOR WHAT HEWAS SAVED.
"Carl, what is the matter with Judy? She's been whining and begging us to go to the shore for the last balf hour," said Marion Chase to her brother, who was stretched fulllength on the floor, reading.

Carl looked up, listened a moment to the big dog's pleading, then closed his book and said with an evident effort to give up his own pleasure to gratify his dumb friend:-
" Poor old girl, she's in some trouble, that's plain! Come, Marion, put on your hat and we'll fumour her."

Marion, who never refused a walk on the sands, no matter in fair or stormy weather, was soon equipped, and the children followed their dog, who tried to hasten their steps, running far ahead and then coming back.
"What a high tide! 'Haven't seen the likes in ten years!' as old Sim would say," said Carl, "Hurry, Marion, Judy has got her nose in those rocks-tiere's some animal she wants to get at in there! Whatever it is it'll be drowned unless it can swim, and anyway unless it can squeeze out."

Bounding over the rocks and sand, Carl reached the crevice first, and with a short exclemation pulled out-a little puppy. His sister was by his side, and Judy with short, happy barks let them talk as they pleased.
"So that is where she hid her little one! Poor old Jude! she thought father would take this one as he took two of 'em. And you see, Marion, she oouldn't get the little thing outit got wedged in and this high tide frightened her-she knew her baby would be drowned."
The children and dog stood on the rocks, the poor mother nursing and fondling her little one, the boy and girl watching her contentment with great pleasure, for Judy had been their constant playmate and companion ever since Karion's second jear.
" Wouldn't it have been just dreadful if she had lost her little doggie !" said Marion. "I do bolieve she would have stsyed by it till she herself was drowned. You see the tide wes never so high-O Carl, Carl, we ere lost!"
It seemed tras at first, for while the children and dog had lingered on the rochs the treaciorous wares had crept round them till water surrounded them on erery side and the hesvy surf threatened to roll oven over their feet.

Carl startod up, nnd scizing his sister's hand, Esid; "Not a moment, Marion, you must not
mind the surf-oven if it knoaks you downit is our only chance. Judy will savo you nt any rato, and I can swim."
"But Judy has her puppy," said Marion with white lips, for aho was always a coward in the surf. Carl seized the puppy, and Judy, seeming to understand, kept near Marion. After all, there was not so much danger, though Marion fell twice and was dragged back by a receding wave. In fifteen minutes the children stood, panting and wot, but safe and beyond any possible tide.
"Carl, what did you think of as we ran?" asked Marion in an awed voice.
"Oh, of you and the puppy and-well, I did think how mother'd feel;" this last was added in a shame-faced way.
"I could only say over and over, "When thou passeth through the billows I will be with thee.' I know He was, Carl."

Carl looked at the pale lips of his only sister, and with a heart full of real gratitude that she was spared said quietly, "Yes, I know He was-always know that when sho's near," he added in his heart, for Carl thought this one sister almost an angel, and never teased and bullied her as some boys do their sisters.
"O little puppy, I wonder what your life has been saved for?" said Marion, taking the little dog for a moment, but quickly putting it down, for she felt faint and reak.

Ten years went by. Marion, $a$ woman of twenty troo, seemed older than Carl, a young man of twenty-four, for she had been married for two years, and, as she wrote to her brother, "was bringing him the dearest little nephew -just another Carl." She had lived in India with her husband, but wes to spend a few years in her old Scottish seaside home, and now the vessel in which she was to come was hourly expected. How Carl watched the winds and tides! A storm came up, and the ship must be on the coast! The young mar and his father were on the rocks before dawn, and in the darkness they heard the guns of a ship in distress. They knew that in all probsbility it was the "Albatross," and their darling with the little one they had never seen, was to drown perhaps, almost in their sight.

Suddenly a sheet of flame lit up the sky. The ship was on fire, and men and women could be seen throwing themselves into the sea. Boats are launched, and Carl started the first one. It was a great rish, but no one cared for danger: all knew "Miss Mfarion" was in the ship. Nearer and nearer came the boat; now sunk in the treugh of the sea, they could see nothing, and again high on some wave they saw, still far ahead, men, women, and children struggling in the angry waters. Each time some had disappeared, 0 Goh, would they save her?
Suddenly $a$ small, black object is scen coming torfards the boat. It is a dog, and some one is swimming by his side, while there is something on his back.
"Marion! it is she! Here, Herol here, old fellow!"
But Judy's puppy had seen the boat far of and was by their gido before they meeded to call. The baby, half-drowned, but saved, rras dragged in the boat, and Mfarion, who
had yioldod to her fathor's wishes years before and loarned to combat waves and aurf, was soon in her brothor'siarms.
"It was Horo who saved us. How little wo children know what we wore doing ten years ago," said Marion faintly, but with a happy quiver in her voice as she eaw her baby reviving.
"And this"time I thought who was with you, darling," whisperod Caxl, "and knew that even though you drowned He wald koop. you safe. Ah, darling, it was your roused me up to succour Judy when I was a boy. You deservo that her puppy should save your little onc."-Christian Chroniclo.

## SPENDING MONEY.

Lawrence and Fred are cousins. Thein fathers aro neither rich nor poor, and the boys are growing up under good influences, in good schools, with good parents and friends' to help them along, and at least a head belief in a good Heavenly Father who loves them and is seeking to lead them in tho rightignd. true wey.

But one of these boys has already started. on a course that, we fear, will lead him into. trouble. Let us see if we can find ther pointi where the two paths separate.
These boys have each a weekiy allowance of spending money, with which they are to do exactly as they please. It is not muoh, to be sure, but it is their own, and is paid: to. them regulary at the beginning of each month:

Lawrence knows from month to month whit he wants to buy with his money. Sometimea; in order to make his purchese, he has to sarye for two or three months, and this he does, without any difficulty.

When he buys (it is altrays with hismother's approval), it is sure to be something of reali use. Sometimes, not always, it is a book. He has some good games, two or three protty pictures for his room, \& scroll saw; and quites a number of tools, to say nothing of pencils; drawing paper and paints, for Lamrency Has an eye for colour and form. He has gathered' these things gradually, and daring the four years that he has had "ras income", he has made bat two or three unwise purctrasest. His money is not all spent upon himself, either, but a good many thoughtful gifts have been made from his stora, to: which he is constantily addiug by his orn labour:

Fred, on the other hand, is almost always out of money, and often gets into debt. He ssys that money will not stay in his poaket That is true, because he will not let. it. Hs spends it for root-beer, nuts, and candies, picture papers of a doubtful sort, marbles, and such like, and he is adrfeys wishing that he could have more money, so as to buy tools and books as Cousin Lamrence does. Buthe wouldn' buy them if he had, for he has learned to use his money in gratifying his whims, and it is very caisy to see that he is already in the pomer of a habit thatwill grow upon him.
Iook out, boys and girls, for four permies and dimes. As you spend moncy now, You will be very likely to do when you areoolder. Think of the fature when your bayl. Irook ahead, and sak;" "Will this dovme; or" oithers, tuy good?

## 

APPLR Jally, - Boil till it becames a percoot jelly ono pound of moist sugar, one pound of apples, the julce of one lemon. fel it stand in a mould till quite firm and cold.
Sra Foasc.-Whites of ten eggs beaten to a stiff froth, ouc-and-oie-half cups of siffed sugar, one cup sifted flour, one teaspoonful cream tartax; put into rings and bake quick.
Spice Caice-One-zad-one-half cups butter, three cups sugar, ono cup sour milk, five cups flour, five eggs, one teaspoon soda; cinnamon, cloves, nutmeg, allspice, each one teaspoon; one pound raisins.
APPLs TOAST. - Pare and core tart appics without breaking them, put them on slices of stale bread, fill them with sugar, put a little butter and spice on each one, and bake them tender in a moderate oven.

Lbson Pudding.-Oae pint of sweet cream; six eggs, beaten very light. Mix with the cream one lange cup of sugar, grated rind of two large lomons; juice of one lemon. Line the dish with paste; pour the mixture in and bakc.
Froit Pig.-One cup of sagar, one-half cup of butter, two egeg, one-half cup of sweet milk, two caps of flour, two teaspoonfuls of baking powder. Bake in layers and spreed thick with any kind of jam. Frost the sides and top.
Cram Apple Jelly.- Pat the apples in a pan and mash well ; then let them sixnmer in a preserving kettle twenty minutes; strain through a jelly bag, and to a pint of juice allow a pound of sugar ; let it boil ten minutes and thea pour into jars and place in a dark, dry place.
Apples Marmalans.-Pare, core, and cot in small pieces any kind of sour apples, and to every pound pat three quarters of a pound of sugar; put them in a preserving pad duced to a pulp; then pat them in jelly jars, and keep in a cool place.
Appris and Berad Puddine,-Soak a quart of stale bread in cold water five minutes; pour off as mach water as will escape without squeezing, and put the bread in a battered baking-dish; pareand slice 2 quart and spice to taste, and bake the prdding in 2 2nd spice to tast
Canming Corn.-The corn is first cooked for fire minutes; it is then cat from the cob and put into the cans, and the corcrs aie sol. dered down. A small pinhole is made in the cover, and the cans are put in the boiler and boiled steadily for an hour and a half. The cans are then caken out and wiped dry, and a drop of salder is put on the zir-hole. In this way there is no troublo about patting up sweet-com so that it will keep.
Grresen Crisps.-Two cups sagar, one cun butter, the rind and juice of one lemon; mir thoronghy, either with a spoon or with the kend, adding sufficient flour to meke them thick enorgi to roll ont; roll- very thla and cot in small celres with $x$ cetter ; arter placing in a pan rob the tops with eggs and sprinkle with white sugar; two eggs are enongh for the tops of the cakes; they only sequire a few minntes to bake.

Gresm Tomato Catsup.-One peck tomatoes, six pods red peppers, or oue teaspoonful pairerized, four tablespconfals salt, foar tablépoonfals black pepper, one rablesfroonfal of mastard, one iablespoonfal ground cloves, one tablespoonfal allspice, two quarts white wine rinegar; cook tomatoes and peppers in vinegar zntil solt; then strain, addiag sll the spices, and boil slowly fire haurs; when cold, put io bottles and sed.
Whtermgion Caffe-White part: Onca and-2-half caps of sugar, one-half cup of sweet milk, whites of three eggz, two tezspoonfols of baking powder, two rounding cops of fionr. Red part: One cup red sagar sada, one-half cup of mill, ose-fonth cup of batter, solks of three egrs, one cap of raisins chopped nut 200 fine, iximo teaspoonfals of baking porider, two cups of flour, to be bakod in $z$ legge dish ; pat the red is the centre and the white arocnd it.
Jilly for tir Sicr.-Rice jelly for 2 sick person is rery \#omrishing, and is very casily made Mix two heaping teaspoonfuls of rice fors, with enorgh cold waier so make 2 ihin peste; add a cappral ol boiling water, patiog it in gradually; then let it boil until itis transpareat. When youtake it from the sfore, sweeteo and farour is. If it is for a ferer petient, Gavoar vilh lemen jnice; if for one with Sammer coropiaing, pat estick of cingmax inis phise it is boiling.

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Stocks of grain in store at Torontc on Monday，23rd instant，and on provious dates，were as follows：
Oct. 23, Oct. 16, Oct. 24,

Fl．Theat，bash．
$\begin{array}{llll}\text { Opring do bush．} & 71,364 & 46,592 & 145,533\end{array}$ $\begin{array}{llrr}\text { 8pring，do．＂} & 10,375 & 4,503 & 33,045 \\ \text { Uarlog } & \text {＂} & 018,365 & 183,672\end{array}$ $\begin{array}{lllll}\text { Oats } & \| & 218,305 & 183,012 & 24,0 \\ & \| & 0,931 & 100 & \text { NiL．}\end{array}$ $\begin{array}{lllll}\text { Peas } & \text {＂} & 6,931 & 6,123 & 6,348 \\ \text { lige } & \text {＂} & 3,734 & 5,334 & 7,222\end{array}$

Total grain．． 310,869 246，329 475，206 Grais，－Prices in Britain，in spite of flactuations，keep at a higher lorel than was predicted，and American markets seem ro－ luctant to come domn．In thas market saveral cars No． 2 Fall IVhrat sold on Tues－ day at 81 and to－day holders are asking Sl，bayers offering $98 a$ Spring Wheas No． 1 is beld at S1．03，with $\$ 1$ oflered or No．2，and 95c．1or No．3．Farmers aro holding back their wheat，refusing to bo convinced that the warket will not adrance， in spite of the good crops nearly overy where． Barley is selling in round lots to the Unitod States wia Oswego and ific tho Bridge．Not mach of the nem crop is No．1，and anferior grades are commanding ready sale at rels－ tively good lprices．While No． 1 brought on 3ionday 79a here，and would now probably bring 80c．No． 3 Extra briggs Oats to G8c．，and No． 3 is quoted at 60c： Oats－The sample is not rery good thas sear，which accounts for lower prices．We quote 40c．to 4le．；Peas ane stesdy at 7ic． for No． 1 and 73c．for No．2．Rye un－ changed at 62a
Grdes axd Siris．－The market for hades is quiet and staady，fith no secumalation of stock，pricce as betore．Cared steers， Which are scarce，bring 10c．Shecpskens wo adranco to $\$ 1$ to $\$ 110$ ，and although theso prices are high all aro talen Which offer．Talloso continues scarce and high． Provisioss．－Since our last report，prices in Chicazo have declined heavily．Cash Mess Pork boing now $\$ 22$ ，and Novembor Pork 818.80 ．Stceks here are reduced to a ow point，and hors is consaderablo diff culty in filling the fer orders that come in． Long clear Bacon is nominally Worth lic． There has been an activo demand for Lard， and ssles haro been mado et lac to lofe． for tubs and pails；as soon as any stock comes to hand these prices will decline． Thero is still a good demand for choico Butler，bat rery little boing roceived，no export demand exists for onr mediam quali－ tice，of Which thero are lerge stocks in tho country．ERes aro bcarce，and ranted at 20 c to 22 c Drassod Hog＇s aro boing taken on the farmers＇markot as stc－to Mic．， Weights aro still too light to be attraotivo to pacters．Hop；aro still held at an anpre－ codentodly high price，about 60c．por lb．， and country holdars will not sell ；the mar－ ket looks casier，homerer，and thero is a leeling east pricas haro beca 100 high．Lato reports from England still agroo that the hop crop in shat coantry is one ol tho rorst for Soars，and that the supply of plantacions oreopt the shor Contincatal plantations，cxcopt those of Alost，in Bel． piam，promise moro abnedsat roturns． To maxo good tho deficicacy，Which is parhsps dot 80 graat as bas beon statod， eadus look as tho London corrospondent of a 3 ran choster paper says．
Peruman Strep haf curad thoaesais Who $\begin{aligned} & \\ & \text { eresuIfering from Dsspersia，Debility，}\end{aligned}$ Lirer Complaint，Boils，Hamours，Fomalo Complaints，cte．Pamphlots froo to any Sold bs daslers 15 ．Fonio
Hate Trasar＇s Bacasax of Wird Oarerat almeys at hend It curas Conghs，Colds， Bronchitis，Whooping Cough，Croap，La－ Gucnis，Consumplion，sud sil Throat and Lang Compleints Fits conts and
botalo．Bold by daalern gencrally．

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