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## RURAL NOTES.

The Kittatinny blackberry seems to be the leading favourite now. It is bardy, productive, solid, ripens in clasters, with great nniformity and is rapidly picked for the marbet.

Tee potato crop in Ontario has suffered from rot in some localities, notably on the Lake Huron coast, and in the neighbourhood of Toronto. In the United States, the crop is reported to be in a better condition than for any year aince 1875 .

Nearly all the best Jersey cattle bred in America are registered in the American Jersey Cattle Club Register. This herd-boois has been remarkably exclusive, and a record in it means an assumed relationship to the very best Jerseys in existence.

Dr. Sturtmitant, of the New York State Experiment Station, thinke that tobacco emoke is the surest remedy for the aphis. It is certainly a much safer remedy than Paris Green, which bills leaves as well as inseots, if not very carefully and sparingly applied.
Every one bnows that it pass to feed a milch cow well, but every one don't know how to regalate feed in order to obtain the best results. A good rule is to feed a cow up to the point at whioh she begins to get fat, snd to stop there. What the duiryman wants is not fat but butter.

Knid treatment, clean and well-aired stables, and using each animal as if but one were kept, Fill surely tell in the quantity and quality of milk given by a herd of cows. Fioious ones should be got rid of, and the comfort of the herd carefruly attended to. By such mesns dasirying will pay:

Ma. S. C. Patterson, who is a goodu authority on the subject, says the Shropshire is the best sheap for the Canadian farmer, whether bred "ór mation or bred for moai. Mir, Johin Dryan is of the samo opinion. The Shropghres were ceritainly the favourites at tho Toronto and Provincial fairs this yesr:

IT is stated by the Yondon Lire Stock Journal that English capital to the extent of $98,000,000$ ( $\$ 40,000,000$ ) is now invested in eattle on. the Ancricpn continept the buil ofit being in texas. Cojadians may well wondur why their couniry is apunned by the British capitalist. Probably For 6Herme resson that it is ghanned br the British tourisit
…Itre yield of corn in the Unitod States is cobm puboatby tho Agrictltaral Dopartionont at: $3,600 \frac{1}{}$
 his boen-hurt by ifrost and is minfit formantat


The best of the season grew two hundred miles west of the Missouri River, in the heart of the great desert. The yield of wheat is estimated at $400,000,000$ to $420,000,000$ bushels, or about $90,000,000$ bushels less than last year's crop.

It will require a succession of disasters to floor the farmer who makes the rearing of live stock the leading feature of his business. The rain and the frost may despoil his grain crops; but with cattle to graze the rich pastares and to eat up the injured grain, thero is a measure of safety against loss. Besides, there is no surer way of beeping up the fertility of the soil than by maintaining a herd of cattle on the farm.

Tar Legislature of New York has passed an Act which imposes a penalty of $\$ 50$ (recoverable by the party damaged) for the sale of grass seed containing the seed of or-eyed daisy, rag.weed, quack-grass, or Canada thistles. We have a somewhat similar law in Ontario, but it only extends to seeds of the last named pest. The whole law relating to noxious weeds requires revision; we have very troublesome weeds in the Propince now that were unknown when the thistle Aot was passed.

Tae first thing to be aimed at in getting iogether a herd for the daisy is to secure good milkers-cows that can make o good record in both quartity and quality:', For this purpose each snimal shouid be tested separately, and disposed of if it does not reach a satisfactory standard; once done thorongly it will da for the lifetime of the herd. To neglect this work is to imperil the enteriprise; for soveral comst of a low stamdard are mikonstant drsin oń profits. :It ooste as muoh to keép a pror cow as a good one.:
:IFARMERS: SQ not citen keep bulls monec than two or three jeats berpupe they; becamo dangerous as they grow odd. . IRut thesp immature males cannot get the best stock. Tho higher prized pedigresd animads haye hettor care, are kept so long as thoy arblserviceablb, nad in this, one cause of: their supénionity ocossistes.There.isa yeineral impression that bralls of this Jarisoy breeds ara apt. to beicome ticionarieang; and $\{t$ isisugeocted that this is oconase they'arolpetted too machi whileryonug. !

One iof hibe greatast becrato of ponitry keapiog is colonization. Namornas diviaions incrases, the chonises fon sucudes, and in actsocof silment of any hind thereis 1088 ; ribl yof scrious. Josa i. Ahothet of the scorets is to. get the pullets laying. in thas fall, se son 'asithe: old Dirdg. stop. To this and
 food. Jyean., seath, the "mefussal of. the! butcher's

and putrid meat should be rejected as worse than aseless. Somo recommend mixing the meat with crashed green bones.
Fall. ploughing is not alwaya most satisfactory when finished early. With warm weather the grasses are likely to spring np, eapecially conch or quaok grase, when sod is turned down. With later plonghing the ground goes fresh into minter quarters, and is in better condition for working in the spring. If, however, the season is wet-. which it is apt to be late in the year-the soil is/ likely to pack bard and to receive little or ho. benefit from winter frost. Everything depends. on the reather and the condition of the goil, hat. these being favourable the work may ba cantinne, with advantage until arrested by pinter,
Great care ought to be taben in seleoting sced corn for next season. The injury doye by frost has been so genaral that there is rist of getting seed with'its vitality destroyed. Many farmers, tog, aing to grow spme one of the lapge" varieties, apd as these mature lato thay are more likely this pear to haxe suffored from the early; frost It vould bo spifer perhaps, to goow the smallor:eared varietion as in ripening, earlie thoy, are a pore certain crop B it what is of the greatest importance just now; is to procure a supply, of appnd sead for next yesr, The vitality. shonld ts tested and if foqpd, sstinfactory stored away in a dry and responably, warm place. Size, early maturity namber of ears an stall yongth of kernel, etc., shoula bo caffully considered; but, in vicw of the cifects of tho September frost it rould bo sheer folly to plant sed corn next, spring without knowing, whether it is alive or dead.
"In as test between'a famous. Jersog: comy orined: by Mr, V. E. Filler; of Hamiltor, And a Holatein cow owned by T. B. Waice, of Iotra, for the largest yield of butter for thirty conseoutive days, the latter wou by one pquapd and foarteen ounces. The ansalted produce, as verified by affidavits, was
 the Holstejn, zadininety 3 even, pounds eight, and onethalf ounces for the Jerseg.? Thatertas: ©f:the) tebi, howerar, did not, call fion is record afithan woight. of mill iend foed, end, in this, tesorgeot it
 test of, ninety thasce: obnsecativo days, ilas, zieldad, two hondrod and dinoty-sik pounda, bix, ounces, of paseltad battar, or. a doids , azerage of three. pounds thres, onnoes. . This recard, iry beliovas: has ineves been equalled. . Int the , thirty-one, dnya of - Atgast, the month following herituat jisth tha: Holstoin cow, she fielded ninatyieighturnpuyds fous and ous-half orncegr, tiller seeduconciatede of:



## FARN AND FIELD.

## Holl to raise bia crops.

It has often been asserted by adranced agrioulturists that if wheat, oither Spring or Winter, 18 sown in drills, far enough apart to adrat of asmg a horse hoo between the rows, buth to keep down woeds and loosen and aerato the soil, the yield might be increasod to a marvollous oxtent moro than it now is in this country.
In proof of this, a recont observing and intelligent traveller in Belgium gives the mode of oultare there and the yield, whioh somotimes, with very favourable weathor for harvest, reaches as high as one handred snd aixty bushels por aore. This is ono of the most fartile, prosporous, and most populous conntries in the world, supporting 481.71 persons to the square mile, against 18.92 in the United States aud 218.62 in Germeny. Winter wheat is a staple crop there on their highpriced small farme of only an acre or two. The land is highly manurod in autumn, well harrowed sevoral times, and got into the best possible condition. The grain is sown in the fall in seed beds, very thiokly on the highest and best location, where it is not likely to be winter-killed, or injured by any oascalty, such as over-flowing or drowning out, or smotharing ander the snow.
. In the spring the main fields are again dressed ap and marised out in drills the proper distance. When the wheat has gromn sufficiently to be moved, it is thinned out by being taken np, separated from the thick stools, and planted in the drills with a tool called a dibble, which makes a hole the proper depth, into which the wheat roots are inserted, pressing the earth tight against them with the foot. This work is asually ontrusted to half-grown boys and girle, a man sorting out the Wheat plants in order that those of the same size may bo placed together, that the field may grow aren and regular.
When the plants have commenced growing, the soil is thoroughly and constantly stirred, either by means of hand or horse power. Every weed and all foreign plants are destroyed, and nothung bat what is wanted, the article itself, is allowed to grow. Thare are very seldom any extensive failures of orops thus carefally and ecientifically grown. The yield is a qnantity never imagined or heard of in this country, and the crop always and sarely pays the cultivator.
It is asserted that such pains would not pay to spply to crops in this country. But do we not go to the opposite extreme? Has it ever been tried here? It certainly mould pay satisfaotorily if.applied to choice varicties in small quantitice, about to bo ased for seed. It is certainly better to till one acre and get a orop now raised on four acreb, than to try the four and only raise half a arop, which is now 80 often the case bere.-Billing TVorld.

## THE CANADA THISTLE.

There has lately bean as much fuss made, in the columns of some of our exchanges, over the Canada thistle as if it were a new onomy, destined to bo the death of agricultare if not instantly and utterly exterminated, instead of an old familiar one which the majority of people treat with indifference, if not with absolute contempt. The proverb that "what can't be oured must be endured," has been almost naiversally applied to thistles, and, pests as thay are, farmers have managed to prosper in spite of them. The abundant rains of the present year have, however, caused them to [spresd with such rapdity that serious alarm for the fature is felt; to allay which-and possibly to pat a stop to the volumir. ous correspondonce os tho axbject-the chobs recentily deroted a leading artiole to thistles, and
promulgated a diotam to the offeot that by using a cultivator with brond shares thoy might bo killod in a ferr outtings. The Globe probably knows as much about farming as Horaco Greoloy, and its adrice is no donbt g.od; bat our bohesexpresbed somo years ago-is tinat the quyckest way to rid the country of thistlos is to set donkeys at them. At any rate, ithe oxperimont is casily tried, as there are donkeys in Toronto and thistles almest overywharo. If the animal engerly devour the weed ${ }_{2}$ as wo boliovo ho will, then the question is settled, the panaosa is disoovered, and it only remains to avail oursolves of it. Let ovory farmer become as soon as possible the possebsor of a donkey; turn it loose on the road sides and waste land from spring to fall, or on the farm where it can do no damage, and in a ferr years the Canada thistles will havo disappeared from everywhere but a fow secret places, and the meek and patient ass will be eagorly hanting for stray speoimens of its favourite dolicacy.

## the potato.

Fair escuiant, what porson, eaint or sinner,
But welcomos theo cach day upon his table
Especially at noon served for his dinner.
Frash from thy bin or shaltering bed of sablo?
How would a bedistcat look withont theo, facing
With thy mild ejas its blushos laint and tonder?
How would it taste withort thy roand form gracing
The dish o'or whioh its savoury juices wander?
With bursting sides, dry as a rosstod chenturt, With fine-grained starchy flesh-a piping platefulWhat man, though opioure he be, would hastenot To do theo ample justice, and be gratefal?

When dessert comes, a flaky pasto or puddingIt follors well, I grant ; ofttimes wo need it: But woe to it, though plams its sides are studding, If thou dost not, fair taber, just precede it.

Oid Ireland lifts har heart each jear and blesses
Thee 85 her friend ; when corn and wine have vanished Thna hast rolieved her wants, her sore distrasees, When, but for thoo, har thousands woald havo famiahed.
On rows, in lilles thy glender stams are groming;
They thrivo alike in sline or partial abador:
All thrcugh the ploassunt land their green is showing,
From Mrain's Iar coasts to pleins of Colorado.
I, precious, healtiflal plant, for ono would praise thee, Admiro thy flower whene'ri I see thee blooming As banatifil, though common as the daisy,
And greet thy sgheros whone'er I goe them coming.
Givo all dao praise to Equashes and ococumbers,
To sagary beets, the smooth, ripo, red tomato Bat, generone frienc, to theo 1 mite those numbers, Thon stalifart commoner! thoa blest potetol
-Natiossal Frece Press.

## DRAINING LAND.

It is not healthful to have wet feet. Plants suffor in this way greatly. The removal of the surplas water from the soil is ons of tho indis. pensable necessities of good farming. The story was well told by the Hon. T. W. Palmer in an address to the Western Michigan Farmar's Clab, When he gave them the roselt of his own experience, as follows:
"I have now over 270 acres underdraine $d$ ", and hope hereafter to report to you good resalts. Tho ground was so fat and the descent was so gradual that I had all the tilo laid under the sapervision of a surreyor, who took the level of my mains and laterals. The average depth of my latorals is troo and a half feet, and, although many havo said that I should have pat them deeper, I have $2 s$ yet eeen no reason to think so. In my heaviest soils $I$ have put them fous rods apart; where the subsoil afforded a free passage to wator I have pat them oight rods. The result so far has been that I can get on any of my fields to plongio or onltivate a short timo after the heaviest raina In former jears I had to wait antil June for scmo of the same land. The aversge price of my tiles and laying tiem has been ninety oents par rod.

The exponditure may seem large, bat I came to the conalnaion that I might as well try to farm on the bosom of Lake Erie ar on land eaturated half tho year and bakod the other half.
" Jnderdraining makes the farmer master of tho situation. It lengthens the season for the plants and for tho farmer. If a man cannot sparo the money or the labour, whioh is the same thing, to undordrain moro than half an aore, let him do that muoh. There are methods of economizing in every family which will onablo him to do that. In fact, it will pay a young man to do it on moonlight nights if he can accomplish it in no other way. I am told that it pays to anderdrain all lands where watar will stand in a holo two and a half feet deep the wettest soason of the year. That being the case, I believe there is very little land in Miohigan which would not bo benefited by underdraining.
"After you have your land in suoh a condition that the water will not retard the growth of farm products, the next thing is to add to it what will make it more productive, taking.care that it does not oost more than it oomes to."

## starting cuttings.

Professor Buda, in the Iowa Homestead, condemns the storing of onttings in the collar as ordinarily practised, "in eand or earth just moist enough to preserve them in condition suitable for graiting, as thasthey will failto absorb the requigits moisture needed for changing the staroh stored in the cell struature into sugar water, and the base of the cuttings instead of callonsing will be fonnd a little blaokened and tho bark and cambium layerat the extreme base dead or nearly so. If thees cattings aro put out the upper buds will start, when the requisite heat is furnished by the sun, and exhaust all the stored nutriment in the cutting before a shom of callonsing is exhibited at the base. On the other hand, if the same cuttings Were packed in sand in a corner of the cellar, or in shallow boxes with the baee of the cottinge npward and ecreened from the air by not more than two inohes of sand keptiall the time moderstely moist by sprinkling, every cutting will callous. When planted in the oyen air such catting will emit roots before the top buds make mach of a start and with fow failares will make nice plants before fall.
"But the commercial grower shonla not bother with keeping ligneous cuttings in the cellar. It is far better to pat them in a pit in the opan air.
"Sot the bundles upside dorn in a shallow pit on dry ground, as tightly together as thoy can bo crowded. Cover over the top about five inoles cf earih, and as it grows cold cover the whole with fresh horso manure to mainly keep ont frost. As the sun gains strength in the epring take off tho manure and rake tho earth fine and even. The sun heat will finish the callousing of the batts of the cattings by the time the ground is ready to receive them. Treated in this way the farmer can reqt the grape, the woigeliz, the troe loneysuoble, several of the spireas, the catalpa, and a greater number of trees than he might sappose possible."

## effects of phosphate on wheat.

There is more discussion than usual this year among farmers as to the effect of lenving alternsto strips the width of a drill without phosphate. Very few drills will dietribnte the fertilizer evenly aronnd a long "bont" In many fields thero is a strip six feet wide of comparatively good wheat, and another on each side not worlh the ontting. It would hare beon money in tho farmor's pocke if ho hod ploughed the missing strip. The wheat it contained is thin, shrankoa and uesalsble. In other years the field has been smaller, but the
quality of the berry was not notably pooror. Somo farmet's boliove that the phosphnto enables the graine that recoive it to rot the adjoining rows. Suoh appears to be, and vory probably is, the faot. The fertilizor gives the row to which it is applicd anohi a start that the whoat roots branch out laterally, and fully occupy the soil, just as a large treo will fill with its own roots ine hole mado for a young tree of the same kind anywhere near it. Further than this I do not beliove that phomphate can injure the land adjoining that to which it is appliod. The truth is that mooh of our westorn Now York soil has had nearly all its availablo phosphato remorod by continuous cropping with wheat and other grains, and sales of timothy hay. Wo have to farnish a fall sapply for eaoh orop, and in fact rather more than the Wheat orop needs, becanse its roots will not reach all tho fertilizer in one season. If, through fant of the drill, or carelessness, a strip of land is loft anfertilized, the orop on it is not worth harvest-ing.-Country Gentloman.

## HARVEST CALENDAR OF THE WORLD.

We are all taught that by reason of indination of the earth's axis the sevoral seasons happen at different times in different portions of our globe, 80 that seed-times and harvests do not correspond in the varionszones. But probably fer persons realize that if all the harvest periods of the world were grouped together they would be found to ocoupy altogether more than three-fourthe of the whole year. As a fact leaving out of sight altogather the equatorial and neighbouring regions, in which different seasons aro actually contemporaneons, there are, perhaps, only two months out of the treelve in which the harvest is not being sotually gathered some where on the face of the earth. Thus, in the greater part of Ohilli, portions of the Argentine Repabic, Australia and Nerv Zenland, January is the harvest month. It begins in February in the East Indies, going on into Maroh as we come north. Mexico, Egypt, Persia and Syris reap in April, while Japan, China, Northern Asia Minor, Tanis, Algiers and Morocco, and also Texas do so in May. Oalifornia, Spain, Portagal, Italy, Sioily, Greece and some of the southern departments of France, gather the harvest in June. July is the harvest month for the greater past of France, for Austria, South Rassia, and the grester part of the Jnited States of America; Germany reaps in August with England, Belginm, the Netherlands, part of Russia, Denmark, part of Canada and the north-eastern States of Amerios; September is the time for Scotland, the grester part of Canada, Sweden, Norways and the northern midands of Russia, whilo the harvest drags on slowly throughont Ootober in the most northern part of Russia and the Scandinavian peninsula. It would thus seem that November and December are the only months which have not a place in the harvest calendar of the world.-EOndon Public Opinien.

## TOP-DRESSING GRAIN.

If late sown grain could bè lightly top-dressed just es winter set in, no doubt the manure so used sould have a better effect than used in any other was. The diffioulty in top-dressing wheat has been in spreading the manure so finely that it shall not fall in clods and amother the grain. With Kemp's manare spreader, this difficulty is obriated. Eight loads will oomfortably cover an acre of grouna, and this so applied mill do more good than if put on either corn or potatoes. The hoed crops will in the ond get the benefit of the manure, for the clover seeding will prevent any waste until the land is again plooghed. If manure could be only gut on in large clods it
should bo appliod to hood orops, oithor on the surfaco or with very siallow ploaghing and let the oultivator mix it mith tho soil. Bat it is cortainly better to apply tho manare c. year earlior, so as to insure a large clover grotth, especially as tho manaro will thus bo thoroughly mised with the soil bofore ploughing.

## STONE DRAINS.

A farm manager, writing in the Country Gertleman, snys: I believe the best way to construot such drains is to set che flat stoncs oarofully and firmly in the angles of the drain at the bottom, loaning them togother at the top in tho centre, and being carefal to hava tho cobblo stones for keys largo onough so thoy will rest vory near the tops of these flat stones, also taking care that the flat stones are of equal width, or height ; then fill in above with smallor cobbles a few inches; cover well. I would rather havo such a drain than tilos, provided some reliable party or company would insure it against the inroads of rats. I know of such तrsins which I helped to construot more than thirty years since, when I was a lad, that are apparently working as nioely as whon first completed. But the time and labour required to excavato for atone dreins, and for collecting and setting the stoues, make thom too expensive for the average farmer. Besides, fow men have the " knack" of setting and wedging the stones properly, and, if not well done, hike everything else, better not be done at all. Consequently, tile is best and oheapest.

## LIMING MEADOWS.

Liming meadows or old pasture lands with, say thirty bushels to the aore, has an effect on the condition of the orop of grass that few farmers would believe without giving it a trial. In fact wo do not know how the eamo amount of money. can be expended upon land with the same profit. It is not only certain but lasting. Wo havo known farmers to pasture meadovs fifty years without being tarned up by the simple application of lime once in sis or ten yeare. These pastures which are regarded as permanent, and mostly abound in clay moulds, aftor being grazed down thoronghly, are restored almost knee-deep in from five to six weeks. We do not hesitate to say that no where has lime a more marked effect and can be used with betier resalts than in the renopation of old pastures.-Oranga County Farmer.

## DESTRUYING STUMPS.

Vasions modes are recommonded for removing these antightly objeots, such as blowing them ont with dynamite, boring holes in them and filling pith saltpetre and burning them out, etc. If I wero troubled with stumps, I would try the oxperiment, with vary mach faith in it, of boring with a two-inch anger a hole aix or ten inches deep in the top of a stump, pating in two to four ounces of saltpetre, filling up with water and then plugging up the hole. Do this, ssy in the fall, and the following, spring remove the plag and fill the hole with kerosene and set fire to it. It is claimed that this will burn a stump and all its roots. It is certainly a cheap and easy oxperiment.
Frexicie mastard is thas made in America: Four tablespoonfuls of ranstard, one tablespoonfal of sugar, one teaspoonful of cunamon, one-half teaspoonful eaok of olores, bleck popper and of flour, with vinegar enough to cover these ; mix all woll, and lot it come to a boil: when cold add a littlo salad oil say one or two tablespoonfals; this giros smoothnoss to the wholo.

## HOUSEEFOLD EIINTS.

Trie reports of soveral sudden deaths in Eng land lately from the stings of wasps havo naturally evoked a discussion of the couditions under which an injury usually insignificaat occasionally proves fatal, and havo elicited many announcements of "sure oures." Several correspondents of tho London Times agree that the juice of a raw onion Las novor been known to fail.

Watra in cisterns or tanks is rondered moro healthy and palatablo by having a littlo pulvorized alum put into it occasionally-sas a toncupfal of orushed alum into au ordinary cistern, onco a month, during the summer season. It is also a good plan to pat a for ohuoks of alum into the filterer, in the partition wall of tho cistern; and also into the fountains in the yard or larwn; and into the coolor in the honse, from whioh water is to be drunk. All river, reservoir, and hydrant water should be boiled to kill poisonous animaloulo in it.

Scotcr cakes are economical so far ns ogge aro concorned, and, if made with care, will melt in the monthe of the obildren. To one pound of flour allow half a pound of batter, a quarter of a pound of sagar ; lat the butter stand in a basin near the fire to soften, but not molt; when soft, rab it and the flour together, then knead in the sugar. Roll out in a sheet Yalf an inch thick; cut out cakes sbont two inohes square ; bake until they are a light brown. Pat them away in a stone jar, and they will in a day or two gather moisture enough to be soft.
It arest be false ideas of neatness which demand that beds should be made soon after vaoated. Let it be remembored that more than three-fifths of the solids and liquids taken into the stomaoh should pass off through the pores of the skinseven millions in number-and that this escape is more repid during the night when warm in bed. At least one-half of the waste and putrid matterfrom twenty to thirty ounces por night-muss hecome more or less tangled with the bedding, of course soiling it, and a part of this may become re-absorbed by the skin, if it is allowed to come in contact with it the nes. night, as it must if tho bedding is not exposed for a fery hours in the light. We may well imitate the Datch example of placing such bedding on tro olairs near the window, that the best purifier known-the light of the sun -may displace the impurities, or nentralize them. At least three hours on the arerage is as short exposure as is compatible with neatnoss.-Summerside Journal.

Moxiers and nurses cannot be too careful about the soap they ase on the little ones. Ferp but physicians know how many of the so.called skin dis. eases among children are caused by the nse of sdulterated, poisonous soap. An analysis of several cabes of the pretty and perfumed toilat soaps chat are sold on the streets showed the presanco of ground glass, siles, pipe clay, rotten etons, borax, plastor of Paris, tin oryatals, magnesia, pamice sfone, oat meal, and other sabstances which are added to give the soap weight, hardness, toaghness or clearness. The common colourings aro rermillion, Venetian red and carming, nltramarine green, pot pigment grees, copperas, Spanish brown, altramarine blues, yellow and soarlet anilincs, and barat' amber. Many of the perfamed ingredionts, though harmloss in themselves, become chemically poisonous by admixture. Adding the daagers from all these to the rancia, diseassod, patrid qualities of greaso used, and mothers may Foll be appalled at the permenent orils those noat looking, delicately scented blocks of toilet soap contain, ready to be raloased Fhenorer mooistened and applied to tho babe's body.

## HORSES AND CATILLE．

## ADAPTATION OF BREEDS TO PAR－ tIOULAR OONDITIONS．

The profit to bo realized upon foeding for eithar beef or pork is dependent upon varions conditions． ＇Among these aro the broeds of animale fod，thair capacity for taking on flosh rapidly and producing tho maximum of growth from a given amount of food．This is an important considoration，and one worthy of the most oareful experimont to determine which broed of either callle or swine will produce a given weight of beof or pork at least cost，conditions boing the same．Another equally important point is to determine what partioniar breeds of oattle are best adapted to widely different conditions，such as the stook farm in one of the prairie states，or the Tezas，Color－ ado or Bfontana ranch．Because a given breed seems to moet all the requirements of the Illinois or Iowa farm，with its blue grass pastures，timo－ thy and clover hay，and huge corn fieldo，it does not necessarily follow that it will prove equally well adapted to the range where，for the entire sear；the animal mast seek its own food，exposed to all conditions of weather，inclading terrific storme，frequently of soveral days＇duration． Somo breeds will，from their claracter and con－ stitutional traits，be fonnd better adapted to on－ dure the hardships of anch conditions than othera， will make a bettor growth，reach an earlier ma－ turity，command a better price in the markets at a given age，and thus return a greator profit to their owner．These points of comparison seom likely to reach a solution at no distant day from the attontion now being given to the improvement of stook，ospecially on the western ranches． While for gears the Shorthorns held the fiold as the par excellence beef stock，they have in the last few years met a formidable rival in the Here－ fords，whioh have puahed their olaims to the front as a first－class beef stook．More recently there has been added to the list the black Polled cestlje，the Aberdeen and Angus，and the Gallo． ways．for each of whioh is olaimed special marita as beef stook，and esperial adaptability to the needs of the stook ranol．
The males of all these breeds are now being so generally introduer＇npon the ranohes that it will be but a few years before their grades will be shipped freely to the markets．When this time is reached the comparative merits of the different breeds for ranoh se rice can be fairly ascertained． The sverage weight and condition ai a given aye， with the price thoy bring in open marbiet，would be one test，though not a conalusive one，since the Polled cattle men a o not claim to compete in size and weight with either the Shorthorns or Herefords，only that on agiven amount of food they cas produce an equal amount of beef of equally good quality．The hardiness of the different breeds and thoir ability to endure the extreme cold and severe storms of winter，will be a most important point in determining their relative marite，since－the ranch men who have ranches to bell，to the enntrary notwithstending－the auninal portality of cattle from exposure to the westies is at all times lerge，and sometimes resches enormons proportions of all of the broeds；psmod，as well as all the dairy breeds， eiait possicisses qualities which especially adspt it to epdecisl cobiditions，and renders it more valuable for thiose conditions than any other．Eroh may aleocisaseris kriown to be the case with somo－ possobs：qualities $⿸ 丆 口$ hich in a messure adapt it to widaly trarying conditions．
－Tharpuoblem＇for efoh stonk－grower or feeder to sotye th，Thistir is feet＇sdapted to his conditions？
 graititg or fieding＇？

Our comntry is a largo one，and our caitlo in－ tore：ts oxtond，to a grestor or loss extent，ovor its entire area，though the great cattle broeding conntry now is，snd for years will bo，tho westorn torritorios．In pushing the morita of thair par tioular broeds，tho atook－breoders have ample scopo snd room．A sbarp rivalry betwcen them is every way to bo desired，ss such compotition will terd to been up lie high quality of thoir stook．The nesar candidates for favour will have a sharp contest before them－not to displace tho oldar favouritos，for this can probably never be dono－bat to min a place with them in the costi－ mation of the pablia－Farmer＇s Reviece．

## VALUE OF IILLAN COWS．

$\Delta$ correspondent of the Country Gentleman gives some usefal hints on the value of milch cows．He says：＂My exporisnoo in both baying and selling cows convinces me that many farmars do not un． derstand the true valus of a miloh cor，or the relative values even of those they have raised on thoir own farms．
＂We call on a farmer with a dozen cowe of common or native stook．If he wishes to sell one，unless he las a epecial fanoy or liking for some partionlar cow，he will give tho buyer his choice at a elight advance on the price he would ast for the poorest of the lot．The nsual ohances rende．it very probable that the poorest one is vorth nothing for a milah corr，while the best one may be worth mach more than the price he sets on her．
＂Many farmers soem to class cows that are similar in age，size and condition of flesh，at about the same value，without sufficient regard to the important point，how much milk or butcer they yield during the year．True，they will make the slight differance of from $\$ 5$ to $\$ 10$ whore there is quite s large difference in the amount aud quality of milk；while the fact is that the $\$ 10$ difference in the correct values of the two cows Fould re－ quire so slight a differanoe in daily yisld that it would be scaroely noticesblo．
＂In estimating the value of a cow for dairy parposes，it is well to consider first whether she is worth anything as all；that is，whether the in－ come from her will more than pay for her keep－ ing．I am well satisfed that there are many cows kept for their milk up to a good old age， which are really worth nothing．
＂Let ns see if figares will not throw some light on the subject．To beep a cow daring the gear will cost not less than \＄10，for hay，grain and pasturage．Suppose she gives seven quarts a day in tho early summer，and then gives less and less until dry in the spring，making aboat 1,000 quarts during the year．This，at four conts par quart，would be worth just enongh to pay for her keeping．Let the manare pay for the trouble and care of har，znd suoh a cow is practically worth nothing as a milch cort，and her orner leses the interest on the money investea，and carries the risk of loss through scaident or siokness，for nothing．
＂Tske anotber cow，that gives ouly ono quart a day more than the first，auring 800 days of the year．This will give an income of $\$ 12$ per year， or $\$ 60$ during the five years that ahe rould probably bo milked．This rould be sufficient to pay interest on the catra cost of the com，and make her value as a milkez at least $\$ 80$ more than that of the first．And each oxira quart par day of oqually sa rich milk adds an extra $\$ 80$ to har value．
＂This estimate shows that it is necoseary thet thern alould be a diffarence of only one－sixth of a pint of equally sioh milk af cach milling，in order to mako a difierence of $\$ 10$ in the relaive ralue of two cows．
＂I do not give theno figures as correot for eht scotions of tho country．Even in different parts the cost of keoping a com，as well as tho price of milk，verics a groat deal．But tho principles which I iavo tricd to make olear，throughitho use of theso fguros，is equally true in all parts of the conntry．Each farmer can take the price of milk and the cost of keoping a corr，as thay exist in his own locality，and figure out tho yroblom for himsalf．＂

## THE GENERALLPURPOSE HORSE．

In a prizo cessay Loonard Rexocann anys：An old country doalor has said that tho American general－purpose horso is a＂purposeless＂horse． We do not agree with him．Wo know of no finer animal than the medal general－parposi horse，who has many representatives in Canada，and Fould have many more wore it not for the hap－hazard， ohanco breeding of too many of our Canadian farmera．
With his clean，intelligent head，arched nook， sloping shoulders，prominent breart，short baok， weli sprung ribs，plump barrel，wide，thin legs and high，hollow feet，of blocky brild，from fitteon and a half to aistcen and a half hands high，and weighing all the way from 1,100 to 1,500 younds： ho is a draught horso，a carriage horse and a rosdster combinci．He is the horse abovo all others for moving a load at a rapid rate．In other wordis，ho is the farmer＇s horse．How are wo to get him？To begin with，when you get a first－ class genoral－purpose mare do not eell her．If she is defioient in any point，select a stalliongood in that partienlar，or better yet，one whose colts are good in that particular．Alrays is solecting animals for breeding purposes，look more to their offopring than to the animals themselves．Pro－ riding thoy have never produced any，look to their ancestors as well as to themselves．
Avoid choosing a stalion who is low priced， and never seleot one simply because ho is related to Dexter or Goldsmith Mraia．
Do not be in a harry to nse one whose colt you have not seen．Cise a stallion，if possible，a little out of season，as he is not then over－worked or oremfed．
Avoid long－legged，slim－bodied stook，no mat－ ter how rangy，stylish or speedy they may bo．
Some of the highest priced carriage horsea in our city are of this stamp，and if deprived of their fat theg would be vary inforior looking horses， and as regards their being useful，it is out of tho guestion．
I would much sooner ofn the Dutohman＇s horse，who，when he laid down，＂the sthall vosh fall．＂
The first point in a No． 1 general－purpose horse is durability；he is a good feeder，bas plamp bar－ rel，end，of course is easily kept in condition．
If your mares are light，nse a etallion on the hespy side．Do not go to a great extreme，as wo do not libe too violent a cross．Do not select one that woold be likely to leave flat－footed colta，or colts that are coarge in the head or lega，as this cross sometimes prodnoes etook that are too heary in their head and limbs for their size．－Feternary Jourral．

## ROOM FOR ALL．

The Breder＇s Gazette，in a recent issuo，says： It is highly amasing to obsorve the assurance with rhich ono of our esteemed Brikish exchanges prates of the downiall of the Shorthorn．Surver－ ing the great agricultaral regions of Arnerioa from its London sanctum，it sees nothing bnt ＂white－faoed＂stecrs upon our pastures．The Gazstts yields to none in its admiration of the oxcellent grazing and beef－maling qualities of the Hereford．It litewise recognizes masit of a
high order in tho Polla, both black and red. Holstoing, Jersoys and other woll-ostablishod breeds havo thoir apecial fields, and aro heartily recommonded, for cortain localities, under propor conditions. No one breed of cattle oen be recommended as "tho best " in all cases and undor all oiroumstanoce. The question as to "what kind ahall I buy?" must bo setllod by eaoh individual after considoring the poouliar ciroumstances thich surround his undortaking, and when this is borne in mind it is casy to discover the reason why so many different brocds of cattlo acquire popularity in this great conatry of ouxs. Tho Horefords aro being highly appreciatod, und dosorvodly bo, by many of our most intolligent breeders, fecders and ranchmon. We agree with the Mark Lane Express that they have a grand future beforo them; but when it comes to the question will they mipplant the Shorthom and other meritorions breads, we answer without the glightest mental resa"/ktivn, "No." Thare are places, parhaps, where no would prefor Herefords to any othor breed of cattlo; and thero are also oircomstances ander which wo would select Polls, Bhorthorns, Holateins (Friesians) or Jersegs.
With regard to the futare of the Shorthorn, To see nothing but encouragement for their breeders in the present outlook. Throughent the sear draving to a close we have not seen or heard of a good individual animal selling ata low figure. Those that are not gova animais have usanlly sold (as they should sell in most cases), at only fair prices. This is to be counted an eloment of strength, which is lacking in some of the breeds for which there is great demand. The scaroity of Herefordsrand Polls, for instanco, may lead to the use of animale for broeding purposes which are not well adapted to that end A wise selection in this regard is necessary to maintain the quality of a breed.

## VALUE OF BREEDING STOCK.

A point on which stock-raisers need eduostion as mach as on anything elso is in the matter of putting a propar catimate apon the value of breeding stock. By far the greater part of thom noed to learn to better appreviate the true aignificance of blood and bresd-to be brought to see that the quality of the sires and dams ased in thair flocks and herds makes ell the difference in the world in the profitableness of their business-to be convinced that this is no affair of imaginary importance, but that it is most intimately connected with success or failure in stock-raising. They need to know not only that improped stook is more valusble, but $r$ chy it is more valuable. The more rapidly and thoroughly knowledge of this kind is disseminated the better it will be for tho breeder, the farmer, the consumer of mests and the country in general. When a man has come to andorstand that 850 or 8100 invested in a good bull, in addition to what a poor one would have cost, is mones well epant, or that $\$ 10$ or $\$ 20$ moro paid for first-olass stallion earpice than scrab servios conld have been obtained fos, is a judicions expendis se, he is more fairly in the way of successfnily proseoating the live-stock business than he has ever been before. There is $\&$ point in larish outlay in this direction Where it becomes foolishness, but not one man in fifty needs a oantion on this point. A score of men will perhaps fall short in failing to expend their means in this way Fith sufficient liberality to best serve their own interests, where one. पill promptly meet the fall requirements of his farm breeding. The man who will rork ap to this point is an exception, and still mors is the farmer who is disposeả to thror away monay with a lavish hend in the impmyounat of his stock. This last extrome is as bad ws the other, bat is
met with so saldom as to make it phenomenal. It is to the golden moan above roforrod to that the stool-raisors are to be educatod; and evary influence tending in this direation esoould be fostared and encouragod.

## OHOOSING A HORSE.

Tho Turf, Field, and Farm, a most reliable authority on the sahject, says that, "in buying a horse, first look at his hoad and oyes for signs of intelligenco, tomper, courage, and honesty. Unless a horse has brains you cannot teach him to do anything well. If bad qualities predominate in a horse, education only sarves to onlarge and inton. aify them. The head is the indicator of the disposition. A square mazele, with large nostrils, ovidences an ample breathing apparatuz and lung power. Next, bee that ho is well andor the jowl, rith jawbones broad and wide apart under the throttlo. Breadth and falliness between the ears and eyes are alrways desirable. The eyes should be foll and havel in colour ; ears small and thin and thrown well forward. The horse that turns his ears back every now and then is not to be trusted. He is either a biter or a kioker, and is sure to be vicious in other respeots, and, being raturally vicions, can nover be trained to do anything wall, and so a horse with a rounding nose, tapering forehead, and a broad, full face below the eyes, is always treacherons and not to be depended on. Avoid the long-legged, stitted ani-mal-nlways choosing one with a ahort, straight baok and ramp, withers high and shoulders alop. ing, well set brok, and with good depth of ohest, forelege short, hind legs straight, with low down hook, short pastorn joints, and a round, mulish-shaped foot."

## SEVEN-YEAR-OLD HORSES.

An old farmer once said: "What a year it must have been for colts sevon years ago this spring." Any parson who has neyer attempted to bay a horse cannoi appreciate this remark, bat if he will let it be known that he wants to bay a good horae, he will be struck with the ciroumstance that all the horsea that are of any partioular account ware born seven years ago. Occasionally there is one that is six years old, but they are not plenty. Now, those of us pho lived around here seven years ago did not have our attention called to the frot that the country rras flooded with colts. Thero were very fow twin colks, and it was sel. dom that a mother had half a dozen colte following her. Farmers and stook-raisers did not go around worrying about what they wera going to do with so many colts. The papars, if we recollect right, were not filled with accounts of the extraordunary namber of col 3 born. And yet it must have been a terrible year for colts, because there are only ax horses in Milwankee that are over aix years old, but ons of them was found to lave bsen pretty well along in years when he rorked in Barnam's brickyard in 1868, pnd final. Is the owner ofned ap that he wris mistaken twenty-six years. What a moxtality there mast have been among horses that would have now been eight, nine or ten years old! There are none of them left. And a year from now, when our present atock of horses would natuxally be eight years old, they will all be dead, and a new Iot of seven-year-old horses will take their pleces. It is singalsx, bat it is true. That is, it is true unless horse-dealers lie, and wo pould be slow to oharge so graat a orime upon a ubeful and enterprising olass of citizens. No, it cannot be, and yst dosen't it soem peouliar that all the horses in this brosd land aro coven jeass old this spring? We leare the subjeot for the youth of the land to ponder over. It beata nen-Feterinary Jourral.

## CREAKM.

"No time like the present," remarks the boy with a new gift watoh.
Taz way the golden ralo is frequentily renderod: Do those you are dono by.
Bexter bare foet and contentment therowith than patent leatior boots and a corn on oach toe.
$\mathrm{O}_{\mathrm{Nz}}$ of the largest fruit preservers in California camo from Glaggow. Of course he is a canny Scotchman.
If is said that Mr. Langtry is coming to America to leotare. Langtry's leoturing, like oharity, should begin at home.
Trus difference between a cat and a comma is that one has the claws at the ond of the paws, while the other has the panse at the end of the olause.
Is it a dude? Yeb, it is a dude. Was it always that way? Yes, natural born. What does it do for a living? It breathes, dear ; don't distarb $i t$.

As intemperate oitizen of Rochestor calls his stomach "Hades," becauso it is the place of da parted spirita. Ono in Cincinnati calls his "The Tomb," becanse it's where the bier goss.

Sous ingeniuns observer has disoovered that there is a remarkable resemblance between a bsby and wheat, since it is first oradled, then threshed, and finally becomes the flower of the family.
"Yoc told mo, Arthar, that your doctor advised you to drink whiskey. Has it done you any good?" "Well, I should say so. I got a barrel of it two weeks ago and I could hardly lift it; and now I can carry it about the room."
"Wric there be a hop to-night?" asked a summer bojournur of another who had lored the stock market " not wisely bat too well." "Don's know about the hop; but there will be a skip if I oan get my trunls out," was the reply.
Wrate Sulphar Springs is the only watering place we have heard of where there is a surplus of men. There were five leani to one belle at this famone resurt and, notmathotanding the prevalence of brimstone, it is not a great place for matoh-making.
Passenarr (fambtly) : "C'leot farcb-'fore we get aoross ! I thought we-" Mate : "Beg y'r pardon, sir ; but our orders is, in bad weather to be partho lar careful to colleat fares; 'cause in a gale like this ere, there's no knowing how soon we may all go to the bottom I"
Fexderson has gone into the conundrum business. Ho wants to know why an unripe pear is more deadly than an immatare apple. As nobody ever tries to gness the auswer, Fenderson says (his ejes beaming with joy at his own ingeanity): "Pear is groon."
Royso and Juliet are prominading on a beantiinl autumn evening. Romec, raising his oyes io heavon, exclaims. "What an sdmirable spectacle ! Look at those thoasand stars that sparkie!" "Yes," replies Jruiet, "they remind jon of the lentorns on the carriages."
"Yous daughter? It is impossible. Why, you look more like twin sisters." "No; I assure yon, ohe is my only daughtes,' replied the pleased mother. And the polite old gentleman spoiled it all by remarking. "Well, she certainly looks old enough to be goar sietrar."
"Prar, my good man," said s jadge to an Irishman who was a witness on a trial, "what did pass between you and the prisonar?" "Oh, then, plase your lordship," said Pat, "sure I zees Pholim atop the wall. 'Peddyl' says he. 'That' bays I.
 Eays he. 'IUnah!' says I. And that's all, plase yoar lordship."

## SEIEEP AND SWXNE.

THE FLOCKS IN IVLNTER.
It is a serious mistako to neglect feeding grain to sheep becauso it is denr. They should havo recoived a moderato feed daly some tame bofore wintor came so that thoy might enter tho cold woather in thrift. Very much doponds on tho hoalthfal wintering of sheop on this caro in tho fall. If they are brought to the winter in good health and aro strong and henrty thero is very little troublo in wintering them so that they will be profitable. Begin with n moderato feed of grain and increase it gradunlly for the fattonng fock. As thoy got fattor thoy need moro food to keep them gaining. It is not only the amount fed, but the mannor of feeding that needs atten. tion. Shoep can bo fed heavily and wastefully and yet not gain but grow poor. It is very im. portaint that they aro nover over-fed. A good shephord will always keop his sheep with a sharp appetito; not an ompty stomach louging and restless for wart of sufficient food, but fed just onough to satisfy and induce healthy digestion and at tho eame time not to satiate. To the inoxperiensed wo would say, nover over-feed, but carefally test the appetite of the flook till ho can see just how mach they will bear with profit. It is not, altogether, the amount or kind of feed that tells, but the way of feeding it. It is true that sheap prefer certain kinds of feed and some are better than others for them, but tho best can be mado bad and the worse comparatively good by the skifful hand.

Feed rogularly morning, noon and night. In all classes of domestic animals this point is necessary, but to none more so than to sheep. A sheep will gain in flesh if it can have somerwat near the amount it will consume; and, what is more important to the farmer, a sheep thus fed is gotting into condition for still heavier feeding.

If a flock of eheop is poor it needs greater care to bring them up. Sometimes thin flesh is not a sign of laok of food, but of indagestion. The alternation of heary feeding with scarcity they will not bear, whether it be regular or not. But a sheep, or any animal well but carefully fed, has a better digestion than a poor though hungry one. The internal organs need proper oxercise, rest, and work as do the muscles, and are more easily disarranged and unfited for thoir proper functions. Corn is the staple article of grain for fattening aud even store sheen and it is not necessary, nor oven best, that is be ground. Sheep thoroughly remasticate their feed, and this takes the place of grinding. Corn is very heating, and, if fed high, is better mised with bran or a little oat-meal. A light daily feed of roots cannot fail to be beneficial. Oats are one of the best grains for sheep; mised with corn for fattening, or alone, or cne-third corn for ewes and lambs, they will be quite satisfactory.
Clover hay is the best forage the sheep can have It is usually cheapcr than timothy but it is the most profitable hay for sheep. Two hundred pounds per day is ןsufficient for ordinary sheep fed in equal feeds morning and night, thei is if grain is fed also. This, with a feed of roots at noon with straw to nibble at through the day, will make the flock healths, happy and fat.

The better fed on hay and grain the more palatable with be the straw, for sloeep like a variety. Well-cured corn fodder is also greedily eaten, as also is pea nad bean straw, the latter very nutritions. Plenty of clean \#ater always accessible is a prime necessity. Shoep do not, like cattle or horses, drink largely at one time and enough to last for houra. They prefer to frequently take a amall quantity, and whilo eating bay will often go to the water provided it is near by, and it should
always bo undor cover. Nover tolerato tho idea that eating snow will supply the place of water. Try it yourself if you still think so.

Sheep will ondure sovere oold if thoy are kept dry, but they do not liks cold vinds nud wot und cold thoy cannot stand. The water remains in the wool and in a cold atmosphero ohills thom through and opens the way for all kinds of dis. easo. An open wintor is not tho most favourablo for feeding shcop. If thoy aro kopt houscd thoy are too warm and thoy loso their appotito and if oxposed the constant storms make them uncomfortable. Lambs require moro oaro for fattening than older sheep, but they will also give a butter return for food consumed and thoy aro always salable, but it is eafo to say that the novico in aheop feeding sloald not do his first mork with lamby.
Breeding owes require generous but not high fecding. The grain will need to be a little different than for fattening, more bone and musnloforming food and not so much carbonaceous or heat-producing food; bran, oats, roots moderately and by all means clover hay in abundanco.
Lambs from owes highly fed on corn will bo weak and flabby, and if thoy do not do outright will not be thrifty, but with the other food thoy will come strong and healthy, able to take care of themselves from the first, After lamDing ewos will bear more corn and indeed of evergthing else. To sustain the body, keep up the grorth of wool and provide milk for the lamb is a severe tax, and the best food is none too good for thom at this stage. One of the profits arising from sheep feeding must always be the value of the manare made. No portion of the stock on the farm will do as woll in all respects in this line as the sheep. Boing housed, the manure is always under cover ; it receives and rotains all the liquid and slowly ferments, so that it is ready for use when it is put on the land in spring. A good supply of straw for littor is needed for sheep, and a little should be put on daily, just enough and no more than to keep the yard dry and make a comfortahlo bed for them to lie on, for they will not do well unless they have this. Sheop are well adapted to grain-growing farms because they can work a large amount of straw into valuable manare.-Detroit Post and Tribune.
increasing lean heat in pigs.
We may well sappose that the habit of the pig in laying on an excessive quautity of fathas been caused by long and excessive feeding of fat producing food, and it is not likely that any sudden transformation could be brought abont; bat it is well known that the pigs of different countries differ in respect to fat. We have only to contrast fattened pigs of this country with thoso in Canada There, pork is fattened partly upon barley, bat largely upon peas, a highly nitrogenous food, yielding a large proportion of masole, and our piss are fattened almost wholly upon corn, an excessively starchy and fattening fond. The Canadian pork bas a much larger proportion of lean meat and less lard. The difference is very marked, so mach so that in a markot sapphed with both hinds, purchasers easily select the one or the other $\varepsilon s$ desired. Wild hogs do not have such excess of fat, and the southern log, which is grown much slower than those in the northern and western States, and fed much less corn, is comparativyly lean.
There can, therefore, be little doubt that the habit of depositing the excess of fat is caused by long-continued feeding adapted to that ond. The hog is naturally a grass ara rooteating animal, and, in its domestication, is fed almost wholly, in this countro, upon concentrated food. Hoge fed on skimmed milk have algss proportion
of fat than thoso fed upon corn. If young pigs aro kept upon food that will grow the musolos and bonos, and dovolop a rangy framo, thoy will posboss so math musolo whon halfgrown, that a modorats longth of timo in fattening, oven on corn, will nut pilo on an ostousive amcunt of fat. -Aational Lire Stock Journal, Clicago.

## PENNED UP PIGS.

I never mado any money out of pige always ahut up in a pon, nud do not believo othor people can. I have realized a profit whon the pigs man in a clover or orchard grass field, and mado a considerablo portion of their growth on grass or othor cheap feed. Now, if my neighbour who fed out his "old corn" in the pon to his pigs would calonlate ahead and have a nico rango for his hoge, whore they could get a good alare of their living, and thon give thom a part of the corn, he would increase his profits. "Woll," he says, "thoy will not grow as fast, nor weigh so much." I am not sure but thoy will grow as fast. A pig likes a variety of food. He will thrive on grass alone when no other food is provided. A pig wintered ovor will get fat on green clover or frosh growing orohard grass. A littlo grain will make proportionatoly more gmoth when a pig runs in a field than when it is confined in a pon. Snpposing a pig will not weigh more than half as much when it rans out and helps itself, ss it would if shat up in a pen and fed all the corn it would eat ; it does not cost half as much, and the flesh is a hundred times better food. I do not wish to eat pigs shat up all summer in a foul pen and staffed with corn. It is an unnatural and sickly condition for a pig which loves pure air and the food inoident te a free life. Ho may not weigh as much. It is not a question of woight, but of health and profit. If two hundred pounds cost all it will bring, and ono hundred only ono half, which is the most profitable ?-Col. F. D. Curtis in Agricatlurists.

## HOW TO BUILD L'P A FLOCK.

A Michigan correspondent in writing to the National Lite Stock Journal, "How to baild up a flock," вays:
"Four years ago, I bought thirty ewes-grade Merinoes-culls from a flook, for which I paid three dollars eaoh-a pretty steep price, I thought -but they were sound, heary-bodied, and shortlegged. The first beason thoy sheared, on an average, a little over five pounds of wool, and I raised twenty-eight lambs. Could not buy such a ram as I wanted, so I gave five dollars for his service. Hape done the same trice, because I could not buy such as I wanted. Have lost but nine sheep in the time (four years); have sold forty-six, for $\$ 211$, including culls, and have at present a flock c. soventy-one. Sold my wool the 29th of Jano, which averaged nine and ibree-fourths pounds per head, washed. I ase nons but thoroughbred rame. Have just bought ono which sheared twenty-seven pound. Am not given to boasting, but my sheep are the wonder of the neighbourhood, and my success something thos cannot understand. Ihape but one motto-Eternal vigilence is the price of success. I was offerad early this spring, for all my lambs (coming oue year old), $\$ 7$ apiece.

One of the advantager of keeping blcop is that qualities of lands and crops can bo ntilized by them which would otkerwise bo comparativolyprofitless. While they are among the most profitable stock, they actanly improve the eoil, so that more grass and more money are realizes with less labour. A writer :emariss, a poond of mutton can bo raised as cheap as a pound of beef or pork, and is worth equally as much in the market, and the wool is oxtra profit.

## Blesued Bonefactora.

When a board of eminent physicians and ciemists anoounced the disenvery that by combiniag some well-knowa valuable reme. dies, the most wonderful' medicine was produced, which would cure such a wide rango of diceases that mostall olher remedies could be dispensed with, many were sceptical; but proof of its merits by nctun! trial has dit pelled all doubt, and to-day the discoverers of that great medicine, Hop Blttera, are honoured and blessed by all as benefactore These Bitters are cinpounded from Hops Buchu, Mall, Mandrake and Dandelion, and other oldest, best and most raluable medi cines in the world, and contain all the best and most curalive propertics of all other medicines, belng the greatust Blood Purifier Kidsey and Liver Regulator, and Llfe and Health Restoring Agent on earth. No dis. ease or ill health can possibly long exist where these Billers are used, so varied and perfect are their operations.
They give new life and vigour to the aged and infirm. To all whose employments cause irregulatilies of the bowels or urinary organs, of who zequire an Appetizer, Tonic and milu
Stimulant, these Bitters are lovaluable, being Stimulant, these Bitters are invaluable, being
highly curative, tonic and atimulatiog, without intoxicating
No matter what your feelings or symptoms are, what the disease or allment is, ase Hop Bitters. Don't wait until you are sick, but f you only feel bad or miserable, use the Bitters at once. It may save your life. Hundreds have been saved by so doing: esF $\$ 500$ ra will te
not cure or help.
Do not suffer yourself or let your friends suffer, but use and urge them to use Hop ilters.
Remember, Hop Bitters is the purest and best medicine ever made; the "Invalid's Fricnd and hope. Nould be without them.
"I wes troubled foz ma
is Wids troubled foz many years with seri ous Kidney and Liver Complaint, Gravel etc. ; my blood became thin $;$ I was dull and inaclive; could hardly crawl abcut, and was
an old worn out man all over, and could get nothing to help me, until I got Hop Bitters, nothing to hejp me, until I got Hop Bitters,
and now I am a boy again. My blood is pure, kidneys are all tight, and I am as active is a man of thirty, although $I$ am serenty as a man of thirty
" For tea years my wife was confined to her bed with such a complication of silments that no doctar could tell what was the matter or cure her, and I used up a small fortune in humbug stuff. Six months sgo I saw a U.S flag with Hop Bitters on it, and I thought I pould be a fool once more, and I tried it, but my folly proved to be wisdom, and two bottles cured her; the is now as well and trong as any man's wife, and it cost me only two dollars."
$-\mathrm{H} . \mathrm{W}-$, Detroit, Mich.
arrDon't ryan dingy or faded things when the ten-cent Durantig)Dye will make them

"Wells' Health Renewer" restores health and vigour, curcs Dyrpepsia, General De kility. $\$ I_{\text {, }}$

It is impossible for a moman to suffer from weakness after taking Lydia E. Pink ham's Vactablo Compound
"BUCHUPAIBA.*
Qaick, complete cure, all annoying Zidney,
Bladder and kindred Disexses \$I. Drag' gista.
Uss thotsard pleasant, and effectual worm killer, Moter Grates' Worm Exterminator;
Bad Draikads. -There is nothing more proriuctive ${ }^{\circ} \mathrm{f}$ diszase in a neighbourhood than bad drainae7 Open the culverts and aluiceWays and purify the locality. The obstruc tions in the hu aapajgtem may be remedied In a similar mganer bi Burdock Blood Bit ters, which opeas all the ontlets of diseasc
Have youfried Holloway's Corn Cure
It hes no equal for removing these trouble some excrescences.

CATARRH OF THE BLADDER. STINGING irritation, inflammation, all Kidnvy and Urianty Complaints, cured by "Buchupaiba." \$1.
LET the Chistisn sentiment of the country insist apon the meting ont of a suitable penalty upon every man, whether his position be high or low, through whose neglect of daty
lives are lost, and we shall soon bexin to notice a decrease in the number who dic from secident.-Adrame.

The genuine "Rough on Corns" is made The genaine Riy by E. S. Wells (Eropilelor of "1 Rongh on Rats ${ }^{3}$ ), and has langhing fact
on labels.
I5C. $\& 5 \mathrm{c}$. Boltles.


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Wobster la stand oftanthority with tho U, 8 .


 Tho OnAbridged is nor suppliod, ta amall ad-
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In quastitias,
C. ELACRETT ROBINSON,

Jordan Streot Tacomo.

## Stientilir atu \#wstut.

SPICED PLUNS.-Toeight pounds of plums allow four of sugar, one teaspoonful each of cinnamon and cloves, ono small cup of vine gar. Cook untll they are thick as jelly.
To Clean Black Cashuere.-IVaub in hot suds, with a little butax to the wates; rinse in bluing water, very bles, and iion while damp. It will look almosi equal to nem.

THi Laundry.-A íablespoonful of black pepper put into the firct rater in which gray and buff linens are washed, will keep them from spotting. There is no objec
and it sontens the water like soda.
Bluy Ointanet and kerosede, mixed in equal proportions and applied to bedsteads is an unfailiog bug remedy, and a coat of white. wash is equally good for a log house.
Soda and Windows.-II you put sods In the water with which You are to wash win dows, you will find that finger marks, putty stains, etc, will be much roore easily
moved than if clear water alone is used.
Pippen Cake.-Flour, one pound; suga half a pound; two eggr, a little salt, and one yeast. wder. Grate six large apples, and nut $\cdots \mathrm{em}$ well into the other ingredients ad milk sufficient to make dough. Cut into thin cakes, and bake quickly.
A boiling solution of sulphate of copper applied to a Boor on laping a carpet will keep away moths. For outside coverings of furniture, especially of wool, a solution of carro sive sublimate dissolved in colourless alcoho can be used without fear of discolouration and is a certain exterminator of there pests Chrese Cloth for Cosforts,-Cheese cloth, or, as it is sometimes called, colton bunling, in searlet, blue, or cream colour, is good material for lounge quilts and comforts for the guest chamber. The cloth is light, but very firm, and wears well; it is also much used for lining lace spreads, lambrequins, etc.
A pretty cushion can be made by embroidering a spray of old-fashioned pinks on a ground of blue. Around the edge of the cushion put a full puff of pale satin. Where the puff is joined to the blae satin sew a good-sized pink cord. The cushion, when but not quite so wide.

SOFA Pnlows.-Silk neckerchiefs make very pretty coverings for sofa pillows, canton flanoel being used for the reverse side. hose which have a design in one corner are
sometimes chosen, and when this is done the sometimes chosen, and when this is doae the and its place is filled by a triangle of blact velvel, but the kerchiefs which have borders are the easiest to use.
Frash Pork Pie-Boil lead, fresh pork and make the paste as for beefsteak pie; add to the pie, aiter pulting in the meat, two pofatoes cat fine, which have been boiled pepper, salt, and a dust of fore, season with pepper, salt, and a dust of
snmmer saroury. If there is not fat enough in the pork, add butter, thicken the gravy with a little flour. Plenty of
quired. It is good cold oi hot.
Corn Bread Without Yeast.- Com bread without yeast or soda is sometime desired 25 an article of food. Sift three quarts of meal, add a tablespoonfal of salt, and mix with just enough water to make thin balter; cover this with a cloth and let it stand until it begins to rise, and little bubbles make their appearance on the top; then pous it into a well buttered tin, and bake slowly in a moderate oven.
To Clran Brasswork.-Make a paste of two ounces of rotten stone, half an ounce of oxalic acid, three-quarters of an ounce of sweet oil, and a little turpentine. Apply with a solt piece of old cleth, moistened with as when Brass ornaments will look as brigh vith rock alum boiled to a strong lye in the proportion of an ounce to 2 pint, and rabbed when dry with fine tripoli.
Lexion Pudding.-A very good lemon pudding may be made from one small cup of butter, two full caps of sugar; mix very smooth, addiag then the grated rind of two lemons, the yolks of six ergs, six small Boston crackers dissolved in one pint of sweet milk. Bake, and use the whites of the cgos to make a meringue for the top of the pud.
ding. When the whites are beaten stiff, add ding. When the whites are beaten stiff, add six tablespooafuls of powdered sugar, mix
well ; spread on the top of the pudding, and well ; spread

A Good InTHodugtion.-J. Kennedy, a merchant in Dinde, gout three years ago incustomers by iryi git in his own family for Corgha and Colfe being pleased vith results, linge salef follywed, amd it is now the farounte remefy in faat neighberirhood.

A orint many people in this world praloc goodness and then do an they have a mind to. They follow the advice of George
Herbert, to "Praise the sea, but keep on land."
Mresrs. Mftcurll \& Platt, drugials, London, Dnt, write Dec., 1881 : Wo have
sold Di. Woona' Eslectrac Oll unce ite Grat

 gives better sati action. We always feel gives better saligaction. Wo always
safe in recommending it to our customers.

## LOOK OUT POR REAUDA

The genuine " Rough on Corns" Is made only by E. S. Wells (Proprietor of "Rough on hals"), and has laughing face of a man on labels. 15 c . \& 25 c . Bottles.
Tins sort of Dible study which is alone sure of answering the highest ends is that which, in a right and true meaning of the Ford, is sudy.-Interior.
H. GI. ADDEN, West Shefford, P.Q., writer: For 2 number of years I have been amicted with sheumaning Two years ago 1 was attaiked very sevfersy I suffered a great deal of pain, from yhich I war not free lor a day, Thomas' Ecliftric Oil, and 1 sejoice to say Thomas Eclutric Oil, and I refoice to sit
A Qurry Answarad.--People often ask when is the best time to take a blood puri. fier? We answer, the best time is now. Burdock Blood Bitters does its work of purify. ing, regulating, and toning the system at an times and all sesongs. Purity in all things is always in order when required.
that husband of mine
15 three times the man he was before he began using "Well's Healih Renewer." \$1. Druggists.
Turez are scores, if not hundreds, of churches, of which it may be boldly declared, "There was a time for them to be born: it is now time for them to die."Indepertent.
Like all sterling remedies, Northrop \& Lyman's Vegetable Discovery and Dpspeptic Cure deserves $/ a$ fait trial. If would be ab. surd to suppojed at this or any other medi-
cine of kindred nafure could produce instan. cine of kindrec na pre could produce instan taneous effects. Fpr the thorough removal of Chronic Dysporfia, Constipation, Liver adapted, its uf shbuld be continued some adapted, its ufe shpuld be continued some lieved. That it thon effects complete cures is a fart established by ample and resp. t is a art esta
able evidence.
"BOUGH ON RATE."
Clears out rats, mice, roaches, flies, ants. bed.bugs, skunks, chipmunks, gophers. 159, Druggists.
What Toronto's well-known Good Sa. maritan says: I have been troubled with Dyspepsia and Liver Complaint for over 20 years, and have tried many remedies, but never found an article that has done me as much good as Northrop \& Iyman's Vegetable Discovery and Dyspeptic Cure.
clara e. Portar.
If we attempl to cirilize as well as Chris. tianize a people there will be danger of transplanting an exotic form of civilization, which will hardls take rool-Watchman.
Dr. W. Arustrong, Toronto, writes: "I have beeg using Northrop \& Ipnan's Emulsion of cod tiver Oil and Hppophos. phitis pith the yest rescilts. I believe it is the best Emuld on on the market. Having tested the digeren kinds, I unher, atatingly give it the petertace when pressribing for give it zhe ple patients, or for $\%$ hroat and
my consumplive pater lang affections."
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 drowas which we mort condililly commend to the


Oenal disconnt to the trade. C. BLACEETT ROBINSON.

# The まuxal canaita 

TORONTO，NOVEMBER， 1883.

## THE RERAL CANADIAN FUK 1854

## THIRD IEAR OF PCBLICATION：

Tre Rerar．Casadan will shortly enter on its thind year，and，we are pleased to be able to say， with very encouraging prospects fur the future． It in annecossary to specify the features of the paper for the coming gear．No efforts will be spared to make its risits intercsting and useful to those who farm，to those who grow fruit，to those Tho raise poaltry，to those who breed stock，to shose who mako butter and cheese，and to those who keep house．The young ladies of the house－ hold will find in each issue，a picee of music which， during the year will be worth a good deal more than the sutscription；whilo＂Young Cansde，＂a farourite department in the past，will be continued． Illustrations will only bo inserted as found necers sary to add ralue to the letter press．Single copy one jear，\＄1．The publisher offers the following modcements to cleds：
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In every case the paper will be furnished from this oat till the end of 1884 ，on abore terras． Noney must accompany crder；registered letters at our 「゙上
$33_{\text {ay }}$ we ask our friends to commence work at onces An hour＇s canrasing now will gire bet ter resalis than a whole day later on．Begin with jour ncighboura．In many cases they only ro－ quire to be asked in onder to secane their names．
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3 Jonian Street，Toronta．
Pablisher．

## GONG AEEAD．

Thace is a stesdialy growing dirquition on the part of cattlo breoders in this country and in the Tnita sitates to improro in the dir ction of greater boef and dairy proincte Tho natire callio haro surncil a nesfal purnich，aEd ther prosiess somo ex． callent qualitics，bat they no longer sotiefy the go－atised man weoso metho is＂excelsior．＂Them aro fenlecalitess in Ontario，cracially，in which the infexen of Siorthorn and Ayrshire blocd has not improrila tbo natire strcit，and the prooxs of grad． ing ap bes been going fercerd steadily．Tho Short bern crese has given becf，whilo two Asrshire has giren milk The gin to this extent has been very mariad uaring the past trenty years，bat within 2 mare resont priat tho IXerciunde tho Gallo－ ways sna tho Aberceen polls hero been moning civialerablo bomikaj．Thicre ano at tho present
 Ereele，swa they tho wro of raluablo servico in grajing in the mativis．In trexty years maro no may lout far griat pregress alorg thaso lines； tha rest unjerity diturr catlo will dorblles bo
 beverctivit TEONijpetat of live stocic $t$
 roaly x in

sure that so long as the present high prices of meats are maintained breeding for beof will suffer no oheck．But progross is not confined to the rearing of cattle for the meat markets．The deiry intarest is not being forgotton，and possibis our farmors will find before long that this is a more profitable field than the other．It is a question whether the greater cattle ranches of the western and nurth－restern prairies may not soon begin to effect the trade，especially when wo see the same means adoptod to improve the breeds．Within the last two or three years hundreds of Short－ horns，Herefords，Abardeen polls and Galloways have been sont west，and our own experionce shows what results may be looked for．Is it pos－ sible for us in Ontario to compete with the rivalry of the praines when it has taken this shape？ Time fill tell．Bat ree think that in brocdung for the dairy，Ontario farmers may rely on holding their own against all rivals．The produce of our cheese factories is nowhare su－psssnn，and with proper methods an equally good reputation mas be established for our butter．Jersey cattle are stead－ ily increasing，and this year，for tho frrst，a num－ ber of Holsteing have bean introduced．Let us go on in this directive．With a ferf entarprising men in every county to establish herds of Ayr－ shires，Jersess and Holsteins，and with oreameries to do for butter what factories have done for cheese，the gain to the country rould speedily be－ come manifest．It is just here that we need to caltivate a spirit of entarprise．

## SHELTER FOR STOCK．

With the approach of Finter Feather every good and homane farmer will see that suitable provision is made for the sheltor of his live stock． This is quite as essentisl for the gake of economy as for comfort．An arumsl under cover requires less food to keep up the standard of natural hest than one that is exposed to wintry winds snd storms．We know frem the erperience of too many farmers that estile can bo brought throagh our sovarcst winters with no other shelter than a strav stack or a rail fence，bat common senso tells ns that it must be at a large erpenso of ron－ stitutional vigour．Hardinsss in horses and cat－ tle is a desirable thing，but it is not a quality worth cultirating by tho practice of cruelty and crtraragaice．Feare told in the namratives of Parkman and others that tho Indians who occu－ pied the cul 1try betreen Late Simeoos and Geor－ gian Bay，tro handred and fifty ycars ago，with－ stood the rigours of winter offen without fire or clothing，their neiked children having no better shclter than «as afionted by rude baris wistuams． Such a degroo of haman enauranco to kaow to bo possible，bat does any suna man bclióre that it would bo wiso to practiso it with a riow to im－ provo tho hardincss of the sroo？Eivery body knows better．Food．clothing and shelter aro fclt to be rococsary for man＇s comfort，and it is oniy in a loes degroo that food and shelice sro neocs－ sary for tho broto＇s．If it is not passiblo to hare stables for catill and horses and a properly en－ clasai shed for shocp，tho least that can to dono is to prorido corcers to which they can ritizat daring sbowers of rain，sloct or snove．But，with lamber 80 plentifal ass it is in Ontario，thers is hardly ar cxeaso for tho farmer ribo ncolocts to crect satetartial baildings for his stork，or who Eniers such baildiesr to 50 施 Frock．The citics haro their sucictice for tho prerention of cracity to snimals．It is afroct 2 pity that socictics with a similar object conld not be formad in the




## PICTURESQUE OANADA．

Below will be found a fac－similis of the＂cast－ iren contract＂used by Boldens＇agorts．When persuading tho farmers thoy only want thoir namos and addresses to send them samplo copies of＂Pioturosquo Canada，＂as explainod in a com－ munication in another colamn．In laymg the facts of this diggraceful basinoss before our readers，we heve no intention or desire to interfere with the salo of the above work．Wo simply wish to prevont imposition．The plea that the cantass ing agents are alone responsiblo is not tenable We have ample proofs that in many instances those agents have been specially instracted by the individual members of the firm to get the names anyway they could，and they（the Boldens）would assume the risk of forcing the contract．Knowing this it seems a duty to inform our readers－who are chiefly among the farming community－that When they place their name on those contracts， they are，in efiect，signing a note for $\$ 21.60$ ，pay able on demand；so they may not be deceived by the representations held out to them when visited by the Baldons＇agents．When the mork， ＂Picturesyco Cansda，＂was first projeoted，thoss Who bnow the Beldens predicted it would be Rnother＂Atlas＂trick before it was ended． The lste experisnce of anwilling＂sabscribers＂ has proven that the leopard cannot ohange his spots．Farmers will do well to preserve this paper for fatare reference．

ds winter apprcackes，the quostion is naturally aciod：Where shall mo gct our wintir clothing？ Jfany rill at onco enswer，at Oak Hall，oppuito St Jamere＇Cathodral，Toronto；but jet thero aro many who are not anaro of tho cxtent and raricts． and cheapress of their stock，and，therclore，thces pooyla shoold not ppend dollar until thcy haro




## "PICTURESQUE CANADA" AGAIN.

## OAUTION TO TAE PUBlic.

We, the undersigned farmers of the county of Puierboro', Ontario, take this means of warning our brother farmers throughout the Dominion of a cunning swindle which is being perpetrated throughout the rural sections, of which we, as well as others within our knowledge, were victims.

The fraud is conductod in the following manner. The agent of Belden Brothers of the Art Publishing $C$., of Toronto, came to our county and employed an old resident to ride around and introduce him to the farmers. He showed us a sample of an illustrated part-book, containing about twen ty-four pages, called "Picturesque Canada," bound in a papar cover, prico sixty cents per part, to be delivered at our residences, ono part every two months. The delivery was to begin January lst, 1884. He represented the work to be "purely Canadian-all manriactured in Toronto," where he asserted the "enit Publishing Company" (the publishers) resided, with their artista, engravers, printers, presses, etc. He also exhibited letters from tho Mrarquis of Lorne, who, ho said, had take $\$ 12,000$ worth of stock in the company. Earl Dufferin, I. R. O'Brien and other distinguished men, whom, we were lead to helieve, were the s'ock-holders. As trial numbers, we consented to take from one to six parts, with the understanding tiat we could discontinue the work at any time at our option. He presented a book and asked us to writo our names, lot, con., and p.o. address.

This asent had scarcely left our township when thrce oily-tongued representatives of this company came along, each with a waggon-load of books, and iniormed us we had subscribed for the work and they had brought the first treenty parts, for which they Fanted \$12. Wo protested we had only ondered one or twe parts as "trial numbers" The ayent then drew from his pocket a "cast-iron contract," with our names thereon, the conditions of which obliged us to take thirty-six parts at a cost of $\$ 31.60$. For the first time we saw we had been trapped into a contract we little dreamed of. The $\$ 12$ demanded by the agent was really only the first instalment, sacording to the terms of tine precious document. All explanations and protestations on our part ware useless. Wo offered to pay for tho fow trial numbere, prorided the contracts the agents held wero returned to us. This they refased to do. They threatened "to sue," and succoeded in bulldozing a fow persons into paying. But the most of us doclined to be swindled in this manner, and now propose to let them bring the naiter into the court, and we shall abjdo tho do cision of tho jadgo or a jarg farmers sclected from our county: Frow. zecent issuo of the Rural Casadias we le: sn that this so-relled "Ast Pablishing Ca." is coniposed of H. Beldicn and K B. Bciden, the notorions Fankee Atles publishers, whoso former swindling in tho Atles business among the farmers of Ontaric and Qucter mado it necessary for them to uigroise their real names under the title of "Aut Pablishing Co." in onder to do further business among Canadians, and also that noerly the cation work, "Picturceque Cansid," has been manufactured in New York, wher the senior mamber of the firm permanent'yresidea TVe, thercforc, warn our brother farmers throughout the Deminion of tho mannar by which thiz swindle is being perpetrated, that they may bo on their goand if any agcots of this company givo them a call which they, no doubt, will do within a few months, as they aro now operating in other counties

Wu. Ray, Inkefield; Thoo Blezand, 35.P.P., fry Earti: Peterbre', refoni; Hagh Daritison,



Lakefield, rofused; J. Garbet, farmor, Potorboro', refused; Samuel Rosborough, farmer, Peterborv', bulldozed; James McGibbon, farmer, Peterboro', refused; W. R. Norish, farmer, Lakefield, refused; Thomas Dugan, farmer, Lakefield, refused ; Robt. Moore, farmer, Solwin, bulldozed ; R. H. Braden, farmer, Selwin; Thomas Hethorington, farmer, Young's Point, refused; Richard Freeborn, far mor, Selwin, bulldozed ; Mordecai Blowett, farmer, Young's Point, refused; Robt. Nugent, farmer, Selwin, refused; Joseph Nugent, farmer, Selwin, refused; Nathan. Incllmoyl, farmer, Selwin, re fused; Wm. Preston, farmer, Selwin, bulldozed; Gerald Fitzgerald, Selwin, refused.
I herebs certing that the farmers who have signed the abuvo letter are among the most rosponsible and trastrurthy in the County of Pe'grboro'.
W. C. Sacnders,

Clerk of the Municipality of Lakifield.

## THE MANURE.

Winter is the timo for mahing manure, says The Farn d Garden. Every farmer knows that when largo quantities of absorbent material is thrown into the cattle yards, the snows and rains, with the constant trampling of the stock, mako it not only in good condition for being handled, but rots it sooner. The manare, howrover, shonld be put up in large mounds in order that heat may bo created, which reduces it in fineness, but while the inner portions may get too hot and " fire-fang," the outside parts may remain coarse and unrolled. In order to aroid this difficulty, the manare should be occasionally handled, not only to change tho position of the matter, but to mir it thoroughly and allow the air to penetrate the mass, which is a decided benefit.
The laboar of handling manare is such es to detor a great many from so doing, bat minter rork is scldom of an urgent nature, and the citra time should be deroted as much as possible to the manure. It is the preparation that gives value to manure, for tho best quality will be of but little servico anless it is decomposed. It must do compose before the plants can use it, and the object should be to hasten the process before seed-ing-time arrives, as every adrantago gained now is just that much progress made in the spring mork. The labour, therefore, will bring back its cost in the crop upon which the manure may be used ; and looking at the matter in that light, it is easy to reconcilo all seoming losses mado in rinter. The better the feed, the better the quality of the manare Bulk is quantity, bat concontrated food and good preparation give quality, snd the rort should be done when there is no crop to take the time.
So far as spreading tho manure is concerned this should enly be done in winter on heary soils. It is not economical to broad-cast manure at this sceson on sands soils. Hanling it to the ficlds, to be leit in hesps, destross tho uniformity of the appearanco of the crops in many respects, oring to tho extra fertilization of the cecupied places by the manare Besides theso objectione, it is best to kecp the manare at the harn until carly spring in onicr to sork it over, which langely cads to its ralae.

SHELTER RHOKE STORMN
Our crocllent contemporary, tho Erecders' Gazelte, has the iollowing on a 100 Eroquentls zeglect od subject: "Wo do not belicro wo can bo too persisteni in again arging the nocessity of proriding shelter for atoci. With railroads afforing cunrenient shipping facilities to almost crery townshif, high-wriced labume and high-priced land, tho dayt have gron $b_{y}$ when tho farcier cin aford to

in stoves to keep himself warm, or consume in the stomachs of his animals to kfep thom warm. All these products should be economized, either for sale or for the most profitable use to which it is possible to apply them at home. And providing shelter for stock, simply as a question of economy in the consumption of food, can not be considered in any sense an undue pampering calculated to render animals less hardy, or to detract, in the least, from their constitutionsl sigour. On tho contrary, wo believe suitable shelter, to which stuck can resort in case of stormb, will tend to promote these very qualities. An animal can, perhaps, endure the full fores of a regular blizzard, but it is only at the expense of a certain amount of vital forco, which must leare it in a worse conditiun than an animal which has not boen called upon to endure this strain. There is much of the time when it makes but little difference whother an animal has shelter or not. In clear, cold, dry weather, henlthy live stock appear to be to a large degreo insensible to ordinary extromes of temperature; but the snows accompanied or followed by winds which sift it inio the hair, where it slowly melts from the effect of animal heat, tell very soverely upon the condition of the stock. We have often observed that the storms coming late in the season or toward spring, when the snows are damp and often mingled with rain, are more deleterious than those of midwinter. When the hair is damp or wet there is a constant evaporation of moisture which robs the animal of the natural heat and puts its powers of endurance to the soverest test; and animals that have been subjected to all sorts of extremes and exposure daring the whole winter, approach the close of the season, the most critical period of all, with depleted strength and vigour, and in the worst possible condition to withstand the severer trials which are then before them. As has been before suggested, it is not necessary that permanent or expensive structures bo provided, but if nothing elso can be afforded, poies and straw make a shelter very good while it lasts."

Tae Dio Lewis' Montinly for October is fuil of uscful reading for the household. The articles on the Check Rein, Honse Drainage, About Nurbsing, etc., will repay carcfal perusal. The price of the Monthly is oniy $\$ 2.50$ per year. New York, Frank Scaman, is and 71, Bible Eouse

Judginu from the many closo inquirics which are being unade about the potato crop, we hare erery reason to suppose that the tubers sre going to bo raluable this fall. It is a little too early to give adrice, but wo would cay that our farmers had beiter stady tho market well before they obiigate themserves to deliver at any stated figure.

As exchange claims that a full feed of lasy to horses, following the feeding of concentrated food, is wagtinl, for tho reason that it crowds the first out of the stomach before proper digestion has been nacomplisied. And se, in onier to secure best resultes, hay should be fed at first and the concentrated food afterward, whioh lcaras it to beeame digested with no danger of it being crowded away or out of the performance of its desired parpase.

Sir J. B. Takre, the cminent English anthority on wheat gruriog, cstimates tho product of this Jear's harrest in tho Unitod Fingdom at $70,000,000$ buslucls, being an arensgo of treentycight bashels per acre. To bredd tho people mintil next harrest will require sa additionall $182,000,000$ busjods; but as thero is a hears stock of forcign wheas in store, it is likels that leas rill zuffico. It mas estimated lest 5 car luat the roquirements of forcign wheat rould amount to 128,000,010 bashels. Tho cficet of tha largo roxcrro is doabos


## GARDEN AND ORCEARD.

## MANURES FOR THE GARDEN.

It is almost folly to try to raise fine vegetables without a heavy application of manure, and the gardnor should use every sensible means to accomulate it from every sourco. Stable manure, of course, is his main reliance, but is ofton held so high in somo marrlets that it must bo handled economically and ayplied judioiously to make it profitablo to purchase it Commercial fertilizers are valuable, bat by the time the purohased price and freightage is paid, it is doubtful whether they are profitable to jurchase. As the gardenor's outlay is heavy, and he often meets with lossos and dificulties, it is very important that he use oconomy at every point to mako his business profitable, Great care should be used in saving manure, or olse yon may have a great amonnt and of but little value. Tho fall and winter is the main time for collectiug manare. Nanare, in its broadost sense of the word, is anything which sdded to the soil, either dirtctly or indirectly, promotes the growth of plants.
In viers of the above facts, and as I have had considerable experience in cumpusting manaree, I will give a ferw hints by which the gardener mas acquire a fine chance of excellent manure, indopendent of risking too much on high-priced fortilizers.
Forest leaves, when well rutted, seem to be especially adaptcad to the gardeuti's mants. Twothirds leaf-mould to one of stable manure, composed together, hcpt muist and well curered, forbed orer occasionally to make it fine and to regulate the moisture, will be found rich in plant food, and well adapted for any crup.
To form a compost of tho fulluring materials, which are a nuisatice tw any place after thoy are Fell decomposed, makes an axcellent fertilizer for vegetables For a base, rake furest monld and leares shll up together, and pat at a convenient place. Cpon this throw all the asimal mattor found about the premises. The carcasses of small animals, offal of every kind, wooller rags, bones, old boots, old shoes, maste leather uf every do scription, the droppings of the hens, sosp sads, salt brine, slops from the sirbs, ashes, chamber lse, night soils, in fact ans thing thet will decompose. Green weeds and grass of every description will aid in siving moisture, thich it must have. As often as needed, to leep domn tho bad odour and hold eccaping gases, grass sod, soil from the woods, and sides of fences should be trown orer the compost heap. When thoroughly rotted, this will be a fertilizer of excellent quality.

## ROSES IN POTS.

The arer-blooming roses are the best for house cultare in pots, because they bloom quicker and more continucusly than any of the others; snd, besides this, their style and havit of growth are more bushy and better adanted to the porpose. They conld be kept niecly with other growing plente, and with proper attention to their requirements will bloom irrels. (i) Do not ase too lango pots. If possible, not more than three or four inches. The rale is one sizo larger than the plants havo been growing in. Tho smaller the pot (prorided, of coarse, it is large coongh to contain the plant) tho quicier and strunger tho plant Fill start. It is rery difficult to get a small plant to liro sad grow in a large pot, a rose will not bloom mach thl tho pot is well filled with roota Therefore, small pots facilitico quick bloom. If the pots aro old thog choudd first bo thoroughly rashod. If now they shouid first be thoroughly soakcal in traict ; othermso thoy mill atheorb tho mastars from tho plant (2) Earo gooil nech
soil, mellow and friablo. That mado from old, decomposed sods is the best. If manure is used, it ahould be old and thoroughly composted. Fresh manure is injarious. (8) Pat somo bits of broken crookery, oharcoal, or other similar matorial in the bottom of each pot, to facilitate drainago; thon enough fine earth to raiso the plant to a proper hoight. It should not be much deeper than it was before. Next pat in the plant and spread out its roots as near their natural position as possible; then fill in earth and press firmly down with the hand. Whan done, the pot should not be quite full; a little space is needed for water. (4) Whon firet potted water thoroughy, and if the sun is strong shado for a fery days ; than give fall light and air. Thongh the plart should not be allowed to wither for want of water, the earth should get moderatoly dry before watering again. Too much water is rorso than not enough. Yery little water is needed until the plant starts to grow.-Guide to Ross Culture.

## FRCIT NOTES.

Quinces.-The quince is a fruit that has but few enemies, and as they are alrays in demand, we rope to see them more extensively crinicated. There is no fruit crop that pays better with the same proportion of labour.
Diseased Branches-Firo is the best remedy for many orils that beset frait trees. Diseased limbs are just as dangerous in the operation of infesting an orchard as direct contact, fur spores and parasites are temsoions, and propagate in any place, or on any hind of material that is saitable.
Dcud Froud.-Old rines and canes are of no use tu the ner ones, nor to the ground, and they should be cat out at any time after the cold weather sets in. Most agricaltural journals are recurmending that anch be cat array Lutw, but thu best time for so doing is when the earth is fruzen harà and stifi. You fill then also have zoore time for so doing.

The lizeld of Strauterries.-II a person should bo unformed that an acro will produce the or sur times as many stramberries, in bushels, ae wheat, $1 t$ rould scarcaly be credited, and jet ench is the fsot. Nor is this all, for the prico per bashel is more than trice that of wheat, the crop being thus equialent to at least ten crops of whest. Or, put in another shap, an acro of strawberries Fill produce as muih as ten acres of wheat in mones. Bat, in order to do this, labour must be expended, and no relactance should be given to angthing that pertsins to the arop. It is the labour that pays, and not altogether the strawberries, and erery farmer and fraitgromar shonld endesrour to familiarize himsolf rith the mothods that permit hime to do as mach with one acre as he formerly did rith a larger ares

## THE COLOORS OF FLOIFERS.

Hitherto it has boen sapposod that the colours of flowers were due to so many different materials, each colour being a combination haring no relation with tho others. Rat now, nowerer, Professor Schcaluier, in a commonication to the Taudois Socicty of Natural Scienses, shoms that, when the colour of a flower is oxtractod by placing tho latter in sloohol, the addition of an acid or alkali will giro all tho colcurs that plants exhibit Flowars of poony, for crample, give, when pat in alcohol, a violetred jiliquid. If to this solution binoxelate of potassia (salt of sorrel) be added, tho colour becomes purernd. Sola causes it to change, according to quantity usod, to vialet, bluc, or groon. In the latiter caso the grecn bquid sppcars rad by travsinttod light, juct as a solaten of chlorophyl the grecn colouring matter of lesres) docs. Tho sopals of peony, thich aro
green, bordered with red, beoome entiroly ned when put into a solution of binoxalate of potassia. These ohanges of colour, which may be obtained at will, may well be produced in plants by the same causes, since in all plants there aro always aoid or alkaline matters. Morcover, it is quite cortain that the change from green to rod observed in leaves in autumn is due to the action of the taumin whioh they contain on the chlorophyl. Consequently, without wishing to affirm it absolutely, Professor Schentzler belieres that a priori thero is in all plants but one colouring mattex-ohlorophyl-which, becoming modified by cortain agents, gives all the tints that flowers and leaves exhibit. As for white flowere, it is well known that their want of colour is duo to the fact that their colls are filled with a colourless fluid, and that their opacity proceeds from the air contained in the interspaces. When such flowers are placed under the receiver of an air pump they are seen to lose their opacity, and become transparent as the air is exhausted.

## FRUIT TREE CULTURE.

Instesd of " trumming up" trees according to the old fashon, to make them long-legged and long-armed, trim them down, so as to make them even, snug and symmetrical.

Instead of manuring heavily in a small circle at the foot of the tree, spread the manare, if needed at all, brodcast over the whole surface, especially where the ends of the roots can get it.
Instead of spading a circle about the stem, caltrate the whole surfece broadcast.

Prefer a well palverized, clean surface in an orchard, with a moderately rooh soll, to heary manunng and a surface covered with a hard crast and reeds and grass.

Remember that it is better to set out ten trees with all the necessary care to make them hre and flounsh, than to set out a hundred trees and have them all do from carclessnces.
Femember that tobacco is a poison, and will bill insects rapidly if properly apphed to them, and is one of the best drags for freeing frout trees rapialy of small vermun.-Natsonal City Record.

Tixe carrant requires, for best results, depth of soil, moistare and fertality. It succeeds best when treated to composts in which mack, leafmould and barn-jard manure abound. Bonedust and wood-ashes are also gond, and the frait will bo all the better if the bush occupies a cool, half. shady exposara.

Sexps of many kinds of plants are best collected by catting off tho stems and letting them dry. The coeds meantime hare matured and are sared, while if left upon the plante longer they rould in part be scaitered orer the sround. This is the case with such flówers as columbine hardy, geraninms, portulacs, phlor, etc. For this reason such roeds as parslano should be carried from the groand and nover thrown apon the manare. a mint to somo reader of the Rural Cariduas mas bo foand in the folloring: "On one occasion I shippod twenty barrels of spples to a customer, during the holidave Tho reather was mild wher I shippad, but fearing it might turn cold, I lined each barral pith tro thicknesses of paper. They roro detained by mismanagement in transit, for over tro dass and nights on the track, and tho sceond day tho mercary rent down to trelro degrees below rero. Thero ras no firo in tho car, but they fent throagh eafo. The dealor acinorledged recejpt, with drait, and wroto: 'I hare been dealing in apples for searb, but nerer knew how to pack spples antil I eaw this lot." This was my first shipment to him, and ho has continued to bus of me orar sinee, when I luare 2ny to scll."

## BEES AND POULTRY,

## BEE QUACKERY.

In most overy department of basiness or professional life, wo find a vast amount of quackery. It is generally supposed that the term quaokory bolonga exolusively to the modical profession; this supposition is erroneous, as a quaok is one who pretends to teach or practice that which ho does not understand, and a man may be over so skilful a physician and still bo a quack in some other business or profession. In no business save the practice of medicino, has so much iniury been done by quackory as in beecalture. There are some persons who have simply read a work on the subject of apiculture, no matter whether an old or a recent edition, self-suppose themselves to bo able to teach the public, and to criticize generally in regard to the best plans and methods, and, that, too, without erer having onned a colony of bees or being sufficiently conversant with their manipulation to bo able to distinguish a quean from a drono, to tell a capped brood cell from one filled with honoy. To such a practical knowledge of the subject is deemed of little importance, and if they wield a facile pen, they consider themselves fally capable of and are the most ready to criticize the mothods that practical men (who perhaps have not the ability to write fluently, yet have expermented largely! have given to the pub lic. By thas criticizing, and ky ridicaling iacas of real practical worth, which are somewhat roughly presented, much injary is donc, the man of experience is deterred from giving the results of that experience from fear of farther ridiculc, and the novice is led into mistakes which canse him scrions loss, by reason of following the teach ings of the quach rather than the mar of esperience. We all know that a well-written articlo, clothed in choice langagge, and filled with beantifal figures and metaphors, ja more apt to take than a ploin, practical, and common sense statement of the same matter, but written in a prosy style.

In no one thing is raore injury done then by articles on fall feeding. Every apiarist knows that late feeding, if done judiciousls, is of grest ralue and importance, bat in no one thing is there so great a liability to canse injors, and the great est care most be taken not only in the choice of food, bat in the way and mauncr of giving and the quantity to be given. To advise gencrally, that we should feed regularis orery day a certain fixed quantity of honoy or syrap, may, and in mang cases certainly will be tho means of destrosing the colony thas fed. To tho beekeeper of experience adrice whon and how to feed is not needed ; to the norice the adrice chonla not only be given, bat all particulars connected theremith should be given also. The feeding for elimals. tion which would benefit a strong colony, or oren a medium sized ose, would most certainly destroy a weak one, consequently general adrico on tho sabject is warse than usoles. If for one, most sincercly hopo and trast that the das will come Fhen quacks and pretenders will no more oxist in tho land, and more cspecialiy teat our apiaries Fill bo rid of theso their worst encmics. I make no personal allusions, and whore thant all practical beo-keepers will echo to the fall tho hopo I have oxpresecd.-J. E. Fond, jr., in Einme Farm.

## MLANAGEKENT OF POULTRT.

An acro can projuce $\$ 600$ in pooltry, and tho capital required returnad by tho ponltry in a short tiun rith profit With a 5 sstcmatic method of clcaning and fecaing, more profit with loss labour can bo derived from poulty on orio acre of land than from the best regulated dairy under tho soiling methed. An acro doroted oxclasielly to ponl-
try will return a greater profit with less cost in labour than ton ncres in wheat or any careal orop. The poorest and lightest of eandy soils aro more suitable for poultry than the best pastures, as they are freer from disease. That yards freo from grass and olean in overy corner, are better than grass runs, has been demonstrated; but shade of somo kind should be supplied. No poultry house can be kopt absolutoly olean without a board floor. In setting hens, the nest should bo in warm, dry location in cold weather, and in cool, moist places in surnmer. In selecting for breeding parposes plumage and points of marking should not give way to robast constitation, vigour and activity. Feeding steeped olover hay and linseed meal assist in the formation of the whie. J of egge, by supplying nitrogenous matter. The house should be freely rentilated in summer, and warm in winter. All soft food should be freshly mixed. Yollowlegged fowls sell better than those with dark lege. All non-setters lay pure white egge. No male should ran with over twelve hens, a less number is better. Eggs from two-year-old hens are prefersble for setting purposes. Exercise should be furnshed by throwing a quantity of corn into a buadle of loose stram or hay for the hens to scratcll Eeap a good dast bath alrays. Spade up the ground as often as possible. When a rain is threatened seo to the joung chicks. Early hetched pallets are the winter layers. Keep no forl for beanty if profit is the object. Tise pure bred males alrays. Large males bred on small hans produce leggedness in chicks, but small males un lange hens produce closer budies and shortor lege. Never ase a male with his own offspring. It is a saring of time to let a hun set in prefurence to breaking, as hens lay bat fers eggs when deprived of setting, and gu at it in a reek or true. Breed your omn fumla, and never bring them to your yards from other places. Foung chicks, when feathering, endergo severe natural strain on the system, therefure never omit a meal. Use unly the freshest of eggs nuder setting heno. Hot whitorash containing carbolic acil, liberally applied, will hill or keep off vermin. The rough scales on fowls lege are easily remored by a mirture of hard and sulphar and coal oil. Finally be as attentive to fowls as to hurses, cattle, hogs or sheep, and bo in sour gards from morning antil night.

## THE SENSES OF BEES.

Sir John Lubbock recently read to tho members of the Linnean Society an account of his farthor obserrations on tho habits of insects made during tho past year. Two quean ants which havo lired with him since 1874, and which are now, therefore, no less than eight jears old, aro still alive and laid egss last summer as usual. His oldest worlers aro seven jears o!?. Dr. Müller, in a recent xcriem, had courteously criticised his experiments on the coloursense of bees; but Sir John Irabbock pointed ont that ho had anticipstod the objections suggested by Dr. Zrüler, and had guarded against the supposed sourco of error. The difference ras, morcover, not ono of principle, nor docs Dr. Srullcr question the main conclusion srived at or doabt the preforence of bees for blue, which, indoed, is strongly indicated by his own obserrations on flomers. Sir John also recorded somo further experiments with reference to the poricr of hearing. Some bees frare trained to come to honoy which mas piscal on a musical box on tho lamn close to the rindor. Tho musical bex was lept going for scrersl hours a day ior a fortnight It was then brought into the hoose and placed out of sight, but ot the open mindor, and ouly aboat scren sards from thero it had been beicre. The becs, howerer, lid not find the honey, though phen it ras anco Ehomn them thoy
came to it rendily enough. Other experiments with a miorophone were without results. Everyone knorys that bees, when strarming, aro popularly, and have been ever sinco tho time of Aristotle, supposed to bo influenced by olanging-kottlos, etc. Experjenced apiarists are now disposed to doubt whether the noise has really an effect; but Sir John suggests that even if it Las, with reference to which he expresses no opinion, it is possible that what the bees hoar are not the loud, low sounds, but the overtones at the verge of or beyond our range of hearing. As regards the industry of wasps, ho timed a bee and a wasp, for each of which he provided a store of honoy, and ho found tho wasp began earlier in the morning (at four a.m., and worked on later in the day. He did not, however, quote this as proving greater industry on the part of the wasp, as it might be that they are less bensitive to cold. Mroreover, though the bee's probocis is admirably adapted to extract honey from tubalar flowers, when the honey is exposed, as in this case, the wasp appears able to swallow it more rapidly. This particular rasp began work at four in the mornings and went on mithout any rest or intermission till a quinter to eight in the erening, daring which time she paid Sir John 116 visits.

## PREPARING FOR MARKET.

Mach of the profit of poultry-raising is absolately thrumn amay by carclessness in fattening and preparing for market.

Fhen the frame-wurk of a clicken, the bones and mascles, are bailt up, the cost of patting on an additional pound ur tro of nice. juing meat is comparatively little. What folly then to send to market stringy fleshed, sinerry-legged fowls. Parchasers cannut be expected tu give good prices for poultry of this sort.

If farmers do not hare graic of their own raised to spare, it will pay to bay it for the purpose of patting their forls in good marletable condition. This may proroke a smile, but it is true, never. theless. We have known persons who have hail all their feed to bay to make monoy raising chickens.
But pualtry, horerer rell fattended, may be spuiled in dressing. There aire some persons who still scald their forls in dressing and by this means lessen its selling price by so much per pound. The excuse for scalding is that it is easier and sares time. To which re answer that it does not save time when a pereon has lcarned the proper method of picking dry. And certainly every poultry-keeper should learn to put up all his products in the best manner, endearouring to suit as far as possiblo the demands of his orn marbet, and cren the fastidious eges of his customers.
There are minor matters also that should receivo atiention, such es not feeding fowls for at least trelre hours before killing, carefnlly remoring all pin feathers, washing all filth from legs and feet, wiping off all blood from the carcass sud then putting up in neat clean pachages.
iiexress of poaltry often make a mistako in roscrving too many breedung hens. A great many chichens can be raised in the course of the scason from a flock of twents-five.
The farmes's flock of poultry shoald bo compased of choico specimens only, the rery best of tho stason's raising. Why should be are the best whent, corn and potsiocs for secd and not oclect tho best fowls for brecding?

Fowz houses should bo so constracted ras to be cool in summer, farm in Finter and ary all the time. Tho lattir point can bo ecenred by haring a good roof, and an carth ficor raised gix.inches or a foot aboro the zurrounding suriaca.

## THE DAIRY.

## PRACTICAL SUGGESTIONS IN WINTER BUTTER MAKING.

## thapeshyuge for the mamy.

By the dairy is meant some room sot apart for the mills, for churning and working the butter. In this room the temperature is overything, and the succeseful churning and making of the battor Fill depend very much on the temperature of the milk and the oream, when the latter is being ohurned, aince the transformation of the cream into butter is ohiefly a ohomical process brought about by the agency of heat in connection with the breaking up of the butter-cells by the dashers of the ohurn. With most farm dairymen the common practice is to set the milk in shallors pans, especially in winter, and, if this be done, the temperature of the room should be from fiftyoight to sixty-two degrees; possibly siaty vould be the best. However, if deep pails aro used and set in water, the temperature of the room should be sbout forty-five Zegrees, this temperature being sufficient to throw the cream np quichly and also completely. The temperature of the cream in the churn should be from fifty-five to sixty degrees. Many a "hard" churning might be avoided by lhaving a good thernometer in the room, and also one for testing the temperature of the cream. We must lay asido our old-fogy ideas about churning "as it happens" and bring common sense into action.

> " wHits caps" Ei CREABS.

Flecks, white caps, or false butter, as these spooks are variously called, are more common in fall or winter, when cows are "drying up," or in the heat of summer, when their udders are liable to becomo inflamed. In staing this we have given one of the probable canses of the origin of these specks-viz., Bome irregularity of the milkseoreting crgans of the con, which produces faulty milk; for they nevar appear, it is said, in milk that is in a perfectly normal condition. Again, White caps are most likely to appear in milk that is not artificially cooled, so to speak-i.e., by any other agency than the tempersture of the room. When the cold-setting system is practised, they scarcely ever appear. From what has been ssid it will appear that leeping the cows in sood, heselthy condition and setting their milt in deep pails, in water, aro the surest preventires for the trouble. Then the cream should be gently stirred orery day sfter skimming, prerious to the charning, which assists in proventing formation of the flocks. If, by chance, any of these fiecks getinto the butter, the latter ougbt not to be packed for marketwith that which is free from them and otherwise in good cundition. Just what theso specks are cannot be definitely stated; but the uncleus or centre of cachllittle mass contains some organic germ, which, by tho action of warmth and from other causes, undergoes a patrefnctive decsy. Thoy develop in mill, as woll as in cream
teis dis cf aisatio.
We are all aware that when we speali in farour of "colouring batter," there will be many who Fill object to the practuce, saying they do no $0_{2}^{2}$ beliove in changing rehat nsturo ordains; yot, Fhatever ono may think concarning the batter ho uses on his 0 rin table, that which goes to the market rill brugg him a little better prico if it has somowhist tho appearance of Juno batter, instesd of that of land or tallow. As the feed of the cont is changed from rrass to dry hay and grain, the colounng pirment which sho seorcts takes its departure, and the batter stows whiter every disj, rantil, as ono writcr expresses it, st men " 800 n finds that be tastos quito ss mact
with his oyes as rith his tongue." The hnom in using annatto to colour buttor lies in obing it to excess. Puro annatto is medo from a seed or borry of a South American plant or tree called the Aniotto troe (Bixa orollana) or, rather, from the pulp surrounding the seeds. That whioh is most pure appears in commerco in small lozengos. and some comes in cakes or balls of two to four pounds weight. In asing this to colour butter the object sloould be to bring the butter up to a certain colonr-standard; hence, caro is necessary. The old recipe is: dissolve four ounces of lump annatto in a half gallon of water; then dissolve four ounces of carbonats of potash and trro ounces of sal sode in three pints of vator, and mix the tro solutions (annatto with potash and soda). After treenty-four hours, pour off the liquid and throw apray the sediment, keoping the mixturo cool. Use about one tablespoonful of the liquid to a gallon and a half of cream.

## rastorivg ravold buttrr.

Take as much care as we may, it will not bo strange if, during the winter, the butter becomes rancid from any one of seseral causes. This rancidity is due to the presence in the butter of butyrio acid; and, ss soon as it is discovered, the butter shonld be rashed in good, new mill. It may bo out up into slices and pat in a rotary charn, with a good quantity of the milk, whick will dissolve and wash out the acid. After this is thoroughly done, wash the butter in pure cold water. The late $\overline{5}$ rr. Willard also recommended tho following: Beat up a quarter of a pound of fresh lime in a pail of water, and after it has stood for an hour, pour ofi the clear portion and wash the rancid batter in that. In resalting the butter this is rocommonded: Take ten ounces oi fine ealt, add to it two ounces of saltpetro and as mach sugar. Afir these ingredients well, and work from a balf ounce to an ounce into each pound of the batter. This will improro its favour and causa it to pass as a very fair article. No one should fail to try these methods, if he is so unfortanate as to have a lot of rancid better. It may not be at all necessary to made raggongresse of it, as no have knorn people to do.

## DRYING UP COWS.

Should dairy cows be dried off, or should they be milked up to calving time, if they are disposed to yield milk up to that time? To answer this guestion pat, jes or no, would only betray the ignorance of the speaker on the subject of dairymen's practices and prejudices. Wo know of no subject that needs intelligent airing st the meetings of our dairymen's association tais winter as mach as this. It is woll bnown to all that no matter how grest mas be the flow of a cow's mill whon she first calves, if sho goes dry too soon she will not prove a profitablo millier. Indeed, most dairymen would take a large-sized surprise party if thoy would only test the question as to the yearly yield of the tro coms that yielded the most and least at the two of calring. This could be approximetcd by kecping the dates of dropping calves and going dry of the different coms in tio herd rith their rarious yields reigleed and recorded.
What we stariod out to say was that the strange part of this subject relates to the practices and prcjadices of darymen. In the conntry wo find farmers simost aniversally drying up their cows Nith the fear of hartong them if milled up to calring time. Near tho catios, where milk is cold to consamers no attention rehatorer is paid to tho timo s cow is duo to calre. She is simply milkad as long as sho rill give it, and sold if she goes dry too lons beforo calring.
Eroeders of dairy cattle who handlo high pricca
cors are in grave doubt on the sabject of drying off. Thay all know it is a dangerons praotion if not done with oare and diligence. If the cow is negleoted and forms mill in her uddor that is not dram off, bhe is suro to suffer from the negleat, while good milkers are almost certain to give mills up to the day of calving, with a proity general opinion that it injures the calf and oreates too heary a drain on the cow. Can our dairy expoundors at tho convention lay down a safe rulo to pursue in this matter? Lot them try it by all means.-American Dairyman.

## THE CHAMPION BUTTER-MAKING

 COW.Mr. Valances E. Faller, of Hamilton, has subjected Mary Ann, his colebrated Jersey corv, to another test, which was supervised by s committee of practical men of tho Capadian Jersay Breeders' Association. The test began on the 29rd ult., ending on the ovening of the 29th, the corv being milked trice daily in the presence of the commitwe, who watched every operation connected with the mills until it was charned, When they weighed the batter. The resalt of the week's test was twenty-six pounds and nino ounces of unsalted butter and twenty-seven pounds and nine and three-quarter ounces of salted butter, an amount which has never been equalled by any cow in the world. Mary Ann is only four years old, and was bred near Montreal. She Fas purchased by Mrr. Faller last spring for $\$ 500$, and he has refased an offer of $\$ 10,000$ for her. She has been continuously tested since May, the milk and cream always baing retained and charned soparately twice a weok, and has made in four months no less than 417 pounds and two and threequarter ounces of butter, a record which has never bean approached by any com of any breed. During the last official test she made four pounds and one-half ounce of bntter per day for three days. This is the second official test of this corr, and on each occasion she has surpassed any previous test.

## CADSE OF GARGET.

The foundation for a great many cases of garget is laid in the fall or minter, when cows are being dried off, by going too long without thoroughly milking out the bag. The long detenticn of milk prodaces arselling and inflammation, which linger till the bag begins to enlarge, preparatory to another birth, and the consequence is an extraordinary harducss and swelling, accompanicd with inflammation and soreness that keep ap for s long while, and often prora theran of a part or the wholo of the udder. Garget is generaliy carabic, bat not alroays. In mild cases the treatment may bo frequent bathing in tepid water, with friction after each brthing. In severe cases the rater nsed had better be as bot ss the animal can ondure. When rery severe, fomenting mith hot water has proved efficacions. Cathartics should elrays bo given Fhen the swelling is obdurato, and frequent and thorough milking in all casoe, and a spare diet allowed. Rabbing the bag frequently with some pencirating oil, like oil of torpentine dilated rith lineced oil to a strength that frill not be injurious, or anoinking with iodino salre, are raluablo sids, and aro oftcn sll that need bs donc. Tho daily use of a litile enitpetre administerod in the ratcr dranls ${ }_{2}$ or in the feed, is [rocommended by some inigh anthoritics, and hos proved useful.-Prof. L. B. Arnold.

Niich corse will give mare and better milh, gialding more arcam and jollowar butter, when fed on plenty of carrote

## HOME CLRCLE.

## coals OF FIRE.

Farmer Dawson kopt missing his corn. Every fow nights in was taken from his orib, allhough the door was well scourod with lock and loog.
"It's that lazy Tom Slooum," ho oxolaimed one morning, nftor missing more than usual. "I'vo suqpected him all tho time, and I won't bear it any longer."
"What makes you think it's Tom?" asked his wife, pouring out the fragrant coffee.
"Because he's the only man around who hasn't any corn-nor anything else, for that mattor. He spont the summer at the saloons while his noighbours were at work. Now they have plenty, and he has nothing-serves him just right, too ${ }^{\prime \prime}$
"Bat his family aro suffering," rajoined his wife; "they are sick and in need of food and medicine; should wo not help them?"
"No," grorled the farmer; " if he finds his neighbours are going to take care of his family it will encourage him to spend the next season as he did last. Better send him to gaol and his family to the poor-house, and I'm going to do is, too. I're laid a plan to trap him this very night."
"Now, while Tom is resping the bitter fruits of his folly, is it not the very time to help him to a better life?" suggested his wife.
"A littlejcorrse of lar rould be most effective," roplied the farmer.
"In this case cosls of fire would be jetter. Try the coals first, William; try the coals first."

Farmer Dawson made no reply, bat finished his breakfast and walked out of the house with the decided step of one whe has mado up his mind and something is going to bo done.

His wife sighed as she went about her work, thinking of the weary, heart-broken mother with her sioiz and hongry babes aroand her.
The farmer proceeded to exemino his cribs, and, after a thorough search, found a hole large onough to admit a man's hand.
"Thero's the leak," he exclaimed; "I'll fix that," and ho went to work setting a trap insido.
Noxt morning ho arose earlier than neual, and Fent ont to tine cribs. His trap had caught a man-Tom Sloonm, the very one he had suspectod!

He secmed to take no notice of the thief, but turned rside into the barn and began heaping the mangers with hay, streeteccented from the summer's harvest field. Then he opened the crib door and took out the golden cars-the froit of his honest toil.
All tho time he was thinking what to do. Should he try the lay or the coals? The lav was what the man deserved, bat his wifo's words kopt ringing through his mind. He emptied the com into the feeaing troughs, then went around Fhere the man stood with ono hand fin the trap.
"Hello! neighborr, what are you doing here?" ho aglied.

Poor Tom snswered nothing, bat his downcast, guilty face, confessed more than words could hars done.

Farmer Darson relcased the imprisoned hand, and, taling Tom's sack, ordered him to hold it while he filled it with the corcted grain.
"Thero, Tom, take that," said the farmer, " and after this rhen sou rons corn, como to me sand lill lot you have it on trast or for work. I need snother hand on the farm, and will givo jou stosidy Frork fith good wages."
"Oh, sir," replice Tom, quito ovarcomo, "I'ro beon wanting rork, bat no one would hiro me. Mry family was suffering, and I was eshamed to ber. Bat I Fill werk for this and overy ear that I'ro taticn if jou'll giro mo the chanca"
"Fory well, Tum," eaid tho farmer, "tale the
corn to the mill, and make things comfortablo about home to-day, and to-morrow wo'll begin. But thoro's ono thing you must agree to first."

Tom lifted an enquiring gazo.
"You must let whiskey alone," continued the farmer ; "you must promiso not to tonch a drop." The tears sprang ints Tom's oyes, and his voice trembled with emotion, as ho said:
"You are the first man that ever asked mo that. There's almays enough to say, 'Come Tom, take a drink,' and I'vo drunk until I thought there was no use in trying to be a better man. But since you care enough to ask me to stop drinking, I'm bound to make the trial ; that I will six."
Farmer Dawson took Tom to tho house and gavo lim his breakfast, whilo his wifo pat ap a baskot of food for the suffering family in the poor man's home.
Tom went to work the next day and the next. In time he came to be an efficient hand on the Darrson place. He stopped drinking and stealing, attended clurch and Sunday school with his family, and becamo as respectable member of eociety.
"How changed Tom is from what ho was!" remarked the farmer's wife one day.
"Yes," replied hor husband, "t'was the coals of fire that did it."

## PLANTATION PROVERBS.

W'en a nigsah's slow an' shifless den his chances ran to seod,
Kase yo' nobber piok do cotton from do 'noxious bottom wood.

Allus fir ap far do winter wid provision 'boat de honso, Kase a cat kin nebber trabbie fro a hole wot scrapes a monso.

W'en yo' donble up in harness nebber play do reckloss fool,
hase an ox don't wat to 'vantage wion he's yolked long. side a malo.

Nebber try to fill a bar'l f'um a scant ten-gallon keg, Nor to wia a prize at dancin' w'en jo' own a moodan leg.

N'ebber turn yo' back on keaben cos jo' habent cash or

> lan's.

Dar's a heap ob pure religion in a pair ob hormy han's.
Nebber try to preach a sarmint w'en 50' trado is hooin' corn,
Nor to pass for Marser Gabr'l cos yo' oras a dinner horm.
TY'on yo' lootin' far a dinner nebber hold yo' head so high Dat yo' miss do rossted possam racin' arter pigcon pio. -F. Russell Fijisher, is Tolcdo Americars.

## HOUSE BUILDING.

House-building should take into large consideration the evils of stair climbing. So many lives are shortened by it. To the women who do their own rork the stairs aro a constant menace. If buildings are to bo carried ap so high, somchor it mast become feasible to carry the inmates ap also. The secarity of light and air to rooms is admitted to be indispensable; yet the prurisions are so often inadequate. A single Findow or two on one side of a room may admit light, bat is totally insufficient for air. Circalation of air in a room cannot be secured by windors on one side, unless where there are doors on the othur side, which can be opened at the will of the occupant. This is a very serious embarrassment to the health in many houses. Thorongh airing means far more and requires far more attention than is imamined. Physicians called to attend patients in the corner of somo well-lighted room have found the air in that corner close and fonl when the parts ncar the gatsido Findow pere well aired.
A central shaft carried through the centre of these larger and closely located honses, ssems to be a necessary addition, in order that air may have ontflow and inflow. Eren this eame form of apparatus for causing armaght is notinfrequently csscn-tisl- Pure circulating air in houses fread from dampness, and sunshino in each room, sro capable
doing wonders for the bealth of the people. No wonder that children so often wither or grow like siokly plants. Wo drawi tho attention of those oven of our smaller citios and towns to the need of such care over honse construction as shall seoure the blessinge of a woll-aired and dry and well-lighted, healthy home to our people. Our home-life needo this kind of precantion or else we shall suffer moral and social not less than physioal evils.

## THE STRONGEST DRINK.

Hov. O. H. Spurgeon says to the boys: Water is the strongest drink. It drives mills; it's the drink of lions and horses, and Samson nover drank anything else. Let young men be teatotallers, if only for cconomy's sake. The beer money will soon build a house. If what goes into the mash-tab went into the kneading-troagh, families would be bettor fed and better taught. If what is spont in waste wore only saved egainst a rainy day, workhouses would never be built The man who spenda his money with the publican, and think the landlord's bow and "How do ye do, my good fellow?" means true respect, is a perfect simpleton. We don't light fires for the herring's comfort, but to roast him. Men do not keep pothouses for labourers' good; if they do they certainly miss their aim. Why, then should people drink "for the good of the house ?" If I spend money for the good of any house, lot it be my own, and not the landlord's. It is a bad well into which you must put water ; and the beer-house is a bad friend, because it takes your all, and leaves you nothing but headaches. He who calls those his friends who let him sit and drink by the hour together is ignorant, very ig. norant. Why, Red Lions, and Tigers, and Eagles, and Vultures, are all creatures of proy, and why do so many put themselves within the porer of their jaws and talons? Sach as drink and live riotously, and wonder why their faces aro so blotchy and their pockets so bare, frould leave off wondering if they had two grains of wisdom. They might as well ask on elm tree for pears as look to loose habits for health and wealth. Those who go to the publio house for happiness climb a tree to find fish.

## A CONSIITUTIONAL WALK.

Fer people malk enough in winter, yot it is precisely at that scason that people of aiose sodentary habits should walk. How grateful the crisp air is to the lungs! How clear and sweet it is to the nostrils! How it inspires and sus tains one in a swinging gait of four or fire miles an hour! How the cheeks glow, and the eyes shine, and the muscles tingle with delightful vigowr, after such a walk throagh the winter sunshine! A cluaise ride is not half so good, for it robs the trip of the necessary oxercise- Try it, you who scek health and strength. Winter walk. ing as a "nervine," is a million times better then medicinc, and for improsing the complexion it is worth a whole harbour full of lotions and washes. It will pat an edge on appetito that you can't bay at the doctar's, ani in promoting digestion it is better than a corner drag-shop's entiro stock of bitters and pills. If jou have never tried it, take $a$ Falk. Focp your mouth closed, your shoulders rell thrown bsck, your head ap, and remember that your legs-especially jour hips-were given you to wall with. Some peoplo walk with their knees, bodies and shonldens-and no ponder trioy don't like it Wo don't like to seo them. Thare is $8 \frac{n}{}$ art in walking as in other things. If you don't believe it, observa the motion of some shspoly woman who baciss how to walk or stady the gait of a man who has somo spring and litheness in him. It is nerer too lato to learn how to wall by Fallhing.

## A BROKEN RING OR GOLD.

EOITC4.



## YOUNG CANADA.

## MODERN GIANTS.

The London Tid Bits has gathered the following list of giants who have lived in the later days:-
Samuel MaDonald, a Scotchman, nicknamed "Big Sam," was six feet ten inches in boight. Was footman to Prince of Wales. Died 1802

Alice Gordon, Essex, England, giantess, seven feet. Died 1737.
Henry Blacker, seven feet four inches and most symmetrical. Born at Cuckfield, in Sussex, in 1724. Generally called the "British Giant." Was oxhibited in London in 1751.
Edward Bamford, seven feet four inches. Died 1768. Buried in St. Dunstan's churchyard, London.

Louis Frenz, Frenchman, seven feet four inches. His left hand is preserved in the museum of the College of Surgeons, London.

Martin Salmeron, a Mexican, seven feet four inches.

Heinrich Osen, born in Norway, seven feet six-inches; weight 300 pounds.

Edward Melon, seven feet six inches. Born at Port Leicester, Ireland, 1665, and died 1684, being only nineteen years of age.
James HeDonald, seven feet six inches. Native of Cork, Ireland; died 1760.

Robert Hale seven feet six inches. Born at Somerton, England, in 1820, and often called the "Norfolk Giant." Died 1862.

Francis Sheridan, an Irishman, seven feet oight inches; weight, twenty-two stone; girth of chest, fifty-eight inches. Died 1870.

Bradley, seven feet eight inches at death. Born at Market Wheaton, in Yorkshire, England. His right hand is preserved in the museum of the College of Surgeons. 17981820.

Joseph Brice, seven feet eight inches. At the age of twenty-six years he was exhibited in London, 1862-5. His hand could span fifteen and a half inches, Born at Ramonchamp, in the Vosges, France, 1840. Was sometimes called Anak.
Cornelius Magrath, seven feet eight inches. He was an orphan and reared by Bishop Berkley, England. Died at the age of twenty years. 1740-1760.
John Busby, of Darfeld, soven feet nine inches. His brother was about the same height.

Captain Bates, of Kentucky, seven feet eleven and one-half inches. Exhibited in London, 1871.

Gilly, a Swede, eight feet. Exhibited as a show early in the nineteenth century.
William Evans, eight feet at death. Porter to Charles I. Died 1632.
Charlemange, nearly eight feet. He could squeeze together three horse shoes at once in his hands.
J. Toller, of Nova Scotia, Eight feet. Died 1810.

Maximilian Christopher Minor, eight feet. His hand measured twelve inches and his forefinger was nine inches long. Callod the "Saron Giant." Died in London. 1674-1734.
Chang-Woo-Goo, of Tychou, Chinese giant,
eight feet two inches. Exhibited in London 1866-67, and again in 1880.
J. H. Roichart, of Friodburg, Swedon, eight foet three inches. His father and mother were giants.
Charles O'Brien, of Byrne, Irish ginnt, eight feet four inches. His skeleton is preserved in the museum of the College of Surgeons. 17611873. Patrick, his brother, was eight feot seven inches.
Soushkin, Russian giant, eight feet seven inches; drum-major of the Imperial Guards.
A human skeleton, eight feet six inches, is preserved in the museum of Trinity College, Dublin.

## DO YOUR BEST.

I'm only an insignificaut broom,
Good to swoep an untidy room
And then to be hidden array.
It's vary trying I cannot bo
Somothing dainty or sweet to seo Where the light and the sunbeams stay.

I'd like to be the dear little chair
That holds tho bonny weo baby, thero; Or rather, if I were ablo
To have my wish, I would proudly stand With brio-ì-brac, cards and flowers, a grand Magnificent marble table.

For there is the looking-glass, you knerr, Which everybody admires so;
You can always 800 the smile,
With which thoy poop as thoy pass it by.
How aristocratio to hang so high And bo lookod at all the while!
And there is a splendid thing to hold The books with oovers of red and gold, Excoedingly dignified;
Or that old sola where children crowd And shout and frolio and laugh alond
At play on its coslions wide.
But what is the use of wishing to bo
Anything olso but jast plainly me? I'd better be trying to do My best, I think for a komely broom, And soe to it that I sreop my room As woll as I can. Don't you?

Nor over gramble, though only mado To lire and rork in the quiot shade; For sing with eyes may soe, That if wo each of as do no more Than kecp in ozder a singlo boor $\Delta$ vers clean morld 'trill be.

## THE YOUNGEST DRUMMER-BOY.

But the Twelfth Indiana Regiment possessed a pet of whom it may be said that he enjoyed a renown scarcely second to that of the widefamed Wisconsin eagle. This mas "Little Tommy," as he was familiarly called in those days-the youngest drummer-boy and, so far as the writer's knowledge goes, the youngest enlisted man in the Union Army. The writer well remembers having seen him on several occasions, His diminutive size and child-like appearance, as well as his remarkable skill und grace in handling the drum-sticks, never failed to make an impression not soon to fade from the memory. Some brief and honourable mention of "Little Tommy," the pride of the Twelfth Indiana Regiment, should not be omitted in these "Recollections of a Drummerboy."
Thomas Hubler was born in Fort Wayne, Allen Co., Indiana, October 9,1851 . When two years of age, the family removed to Warsaw, Indiana. On the outloreak of the war,
his father, who had been a German soldier of the truest type, raised a company of men in response to President Lincoln's first call for 75,000 troops. "Little Tommy" was among the first to onlist in his fathor's company, the dato of his enrollment being April 19, 1861. He was then nine years and six monthi old.

Tho reginent to which the company was assigned was with the Army of the Potomac throughout all its campaigns in Maryland and Virginia. At the expiration of its term of service, in August, 1862, "Little Tommy" reenlisted and served to the end of the war, having been present in some twenty-six battles. He was greatly beloved by all the men of his regiment, with whom he was a constant favourite. It is thought that he beat the first "long roll" of the great civil war. Ho is still living in Warsaw, Indiana, and bids fair to be the latest survivor of the great army of which he was the youngest member. With the swift advancing years, the ranks of the soldiers of the late war are rapidly being thinned out, and those who yet remain are fast ehowing signs of age. "The boys in blue" are thus, as the years go by, almost imperceptibly turning into "the boys of gray," and as "Little Tommy," the youngest of them all, sounded their first reveille, so may he yet live to beat their last tattoo.-St. Nicholas, for October.

## BETTER WHISTLE THAN WHINE.

As I was taking a walk early last month, I noticed two little boys on their way to school. The small one tumbled and fell; and though he was not very much hurt, he began to whine in a babyish way-not a regular roaring boy cry, as though he were half killed, but a little cross whine.
The older boy took his hand in a kind and fatherly way, and said:
" Oh, never mind, Jimmy, don't whine; it is a great deal better to whistle."

And he began in the merriest way, a cheerful boy whistle.
Jimmy tried to join in the whistle.
" 1 can't whistle as nice as you, Charlie," said he, "my lips won't pucker up good."
"Oh, that is because you have not got all the whine out yet," said Charlie; "but you try a minute, and the whistle will drive the whine away."
So he did; and the last I saw or heard of the little fellows, they were whistling away as earnestly as though that was the chief end of life.

We hear of men sowing wild oats, but who over heard of a woman sowing anything but tares?
An hour a day gained by early rising gives us, in forty years, five full years or eight hours a day for work-enough to make authors or inventors or masters of languages out of the entire class of those ordinarily endowed.
"Uncle," asks little Paul, "when I am ofg will I still be your nepherw?" "Always, 势y boy; thus, when you are sixty you will aill be my nephew, the same as to-day." :risite Paul, after a moment's rëfleation: "Yes, , ,
 time."

# rodger, maclay eco., SOLE MANUFACTURERS OF "LILY WHITE" FLOATING SOAP. 

The "Lily White" is the only soap made in Candal which stands the FLOATING test. To those who desire a strictly pure Laundry Soap the "Lily White" fulfils every condition. To those who wish a perfectly pure soap for the Bath or Toilet, the "Lily White" has no equal. It lasts longer, washes whiter, and rubs easior than any soap in Canada. Bewnre of imitations.

## "Fingoish Miottled" Soan.

See that every bar of "Mottled Soap" you buy has the name " I 'ger, Maclay \& Co." on it. Our brand has been on the market for nearly twelve months, and has met with a steadily increasing demand. It is specially made for heavy work of the Laundry; and, as it contains no rosin or adulteration of any kind, it can be used with safety for all purposes.

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