The Institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checked below.

## Coloured covers/

Couverture de couleurCovers damayed/
Couverture endommagéeCovers restored and/or laminated/
Couverture restaurée et/ou peiliculéeCover title missing/
Le titre de couverture manque

Coloured maps/
Cartes géographiques en couleurColoured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur

Bound with other material/
Relié avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/ Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas êté filmeers.

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibliographique, qui peuvent modifier une image reproduite. ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couleur


Pages damaged/
Pages endommagées


Pages restored and/or laminated/ Pages restaurées et/ou pelliculées


Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquées


Pages detached/
Pages détachées


Showthrough/
TransparenceQuality of print varies;
Qualité inégale de l'impression


Continucus pagination/
Pagination continueIncludes index(es)/
Comprend un (des) index
Title on header taken from:/ Le titre de l'en-téte provient:


Title page of issue/
Page de titre de la livraison

$\square$
Caption of issue/
Titre de départ de la livraison


Masthead/
Générique (périodiques) de la livraison

Additional comments:/
Commentaires supplémentaires:

This item is filmed at the reduction ratio checked below/
Ce document est filmé au taux de réduction indiqué ci-dessous.



Vol. III. No. го.
Toronto, October, 1984.
$\$ 1$ por annum, in advance.


IN A TIGHT PLACE.


NORMAN HORSES (Formerly of armo of $E$ dilon \& $C o$ NEW IMPDRTATION

MTAEIREMAND CEEADGMABTBEH


 DIELON BROS., NORMALI, IIK.


Alma Ladies' Opllege, ST. THOMAS ONT.
Farmors, givd your dengitors chanco for
comploto oduwition in Alms Collo comploto oducython in Alma Collore anest in
canada


 ocrance.
eistars per cent reduction on sil charges to

26GTH EDITION. PRICE ONLY SI


A Graat Medical Work on Manhood
Eshantad Vitalitr, Nervons and Phyical Doblity, Pamatare Doolline in Man, Erroxs ol indiscredion or crcessem Abook forcvery man
young middo-agen and old. It ooutang 125 prochiptlom forall acnto and chronic dicashak, the Anthor. Whoto oxperionco for 23 yerni f nuch as probisbly rover bolore tel to tho jot of Eny physician. Sil) pagoe, boand in boartifal antood to bo a Cn or 70 ork in orory sonio-mo.
 other work pold in thls conatry for sipho or the manoy Fill bin reimadod in erery instanco asmple o ceats Send now Gold medal
 socirilis book zhould be read by tho young fo instruction, and by tho afdicted for relles. It will beneas all.-Lomaon lanke book will not bo ngeful, whotber youth, parent caandian, zatrructor or overgman-Aromakt
 3 raks, Who may 80 conseritull on all disonson ze

 Erchtreatolsaccest 3 . $m$ m faly withou
Gais pryer

Pros. Low's Mayis Sulyinar Somp is yiphly recomanended for all havaorn and alole álsanges.

## the rural canadian

An Illustrated Monthly Mragazme, at $\$ 1$ per annum. BRIGHT. PRACTICAL, AND LOW PRICED.
A well known farmer writes - - I would not bo without it at double the price A lady subscriber says - 1 look upon yqur musical pages as well worth the year's subscription.

## 

THE RURUAL CANADLAN for : 885 -Fourth year of publicaticn-will be rendered more attractive, as well as mofe useful than ever before. by the addition of a now feature, viz. Short letters from intellisent farmers in which the every day events will be a valuable fearure of the macatine during discussedi in bref pithy letiery This

The fullowig wil caneinue tu be
The following will consinue to be the

## IEADHNG DEPARTMENTS.

FARM AND FIELD
HORSES AND CATTLE
GARDEN AND ORCHARD
RSES AND CATTLE $\quad$ BEESAND POULTRX
THE DAIRY
HE DAIRY $\quad$ RURAZ NOTES.
SHEER AND SYIINE. $\quad$ HOUSEHOLD HINTS.
HOME CIRGLE. HOME CIRCLE
CREAM, SCIENTIFIC AND USEFUL, MUSIC, ETC., ETC.
"WALKS AND TAIKS AMONG THE FARMERS" by W. F.C." AND STRONG EDITORIAI PAGES.
Clubbing arrangements made known on application, Write for terms, as it is desirable canvassing operations should commence AT ONCE.

Tho Rural Canadian $\$ 1.00$, snd the Canada Erosbytorian $\$ 2.00$. Both mailed to any address for one year on reccipt of $\$ 2.00$ net. For full particulars as to Clubs, etc., write to
C. BLAOKETT ROBINSON, Publisher,

5 Jordan Strect, Toronto


THE OLD RELIABLE Halladay Standard

## whindmiti.

28 YEARS IH USE, GUARAMIED SUPEBIOR TO AK

 Fulpors, or any other 2rachirary.
Alsomanupacturerg of 1 K \& Foed Mills, to bo oporatod by the abovo or any othor power, ard Will Friva from qix to twonty-Avo bakels per hour, zocording to sizo. Aleo, Noyes

 Lino. Witte your usmo and addreks on a peat-cand, and mail to

Smerato Fumapoos
TORONTO, ONTARIO.
ErState where yous saw thts aduerti: $=$ moint

THE GENUINE BELL ORTAN.

The/Best in Tone, Design and Goneral Efxcellence. Buy n¢other. Send for our latest Catalogue.

(2) 25 and Bleacier


SATISPACTION GUARANTEED OR MONSY SEFUNDSD

S1,003 RENFAD FUR TTS SUPERTOR
 Norubbing requirede of stratisiag to in produce tho fabria $\lambda$ ton-ycarold girl cen do tho waikling as rell es an older porwia. To placo it in oror
housulhold, tho prico bas been redicad to and It not found zatimeantory, money tof end Wilhis odo month from dabo of purolisel

 s.ionuan sau succeesful marhine, Which aos ceals in doing ita work admalably, Tho price. eis thlacos it mithun the reach of wil it is a And endurng, and lischeap. Erom trial in tho houschold wo can tesidy to its orcallonco." 4: "Tho Mrodol Veoher and Blenoher which and polluable sdisparg to the pablio has many and valuable adran\&ages. It is a timo and during, and formyonin subrtantlal and en-

C. W. DENNIS

TORONTO BARGAIN HOUSE, 2 IS Tongo Eireet, Teromio. Ere rloaso meation this papar.


Troproued riondey, Soplist 1984 , with thomost zoproved facilitiou for umparling a thorovgh comploto busioness oducation. Tho courso it short, sharp. direot and thorongh arill in thos buifiest Hile. The Collecre Caindar malled


## CHEAP F FARBS

 NEAR MAREETS. millos of railrasd and 3 C00 millos of lase traps portation gebools and charobsein overy connty, mill and cllmata comblina to jiroicce larme crope.

 nazn, nino descriptions of the sol, crops, and chargo by writing to the cosorn of licacris TIEN, DE:TTVIT, SLICI.


ENGLAND, EPEOAUISN.
Nerxpan pobllty in all ite variona forme, snt prive on Duessen

 and exjeriefice twitcors answored phoa itamp vacsed. OMce zung si. Viest, TOnONTO.
 Farms bourbi for exchan god for North. Wosi
 cotmationcantio hodbryater remponal appu

C. K. MAODGVALD,
 aflcter wish rape Fierat, s ieft at which Was yomored by Gixe bothe er Pr


## RURAI NOTES.

Ters year's crop of potatoes is ono of tho best for many years. The yield is large and the quality is oxcellent.
TIIE corn orop has sustained some damage from the early frosts, but the bulk of $1 t$ will no donbt mature in good cundition. Large areas of it have been already cut and are secuze from further injury. The latter part of the season has been, on the whole, very favourable for the corn.

Discrssion of the old question if wheat turns to chess has been rovived by a physician of Norfoll county sending to the l-armers' Adrocate a head of whent having a spikelet of real chess attached to it and sald to have grown upon it. The suggestion has been made that it is only another case of the skifful noe of "Spaulding's glue."

If we would improve grain by selection there is no better way than to sclut the heads, takug only those from the stouln that oud up the largest namber of stalks, and then sow only the largest grains of these, otherwise there is no guarantee that flump grains may not como from short heads, or from plants that send up but a singlo stalk.

Tiere are many people who like a mess of cabbage to whom the odour of cooking it is anything but savoury. Our own opinion is that it should be classed with the nuisances and so dealt with, but one who has tried the experiment says that a small piece of red pepper in the pot will effectually neutralize the cabbage odour. We give the recipe for what it is worth.

It is claimed that Indie will have a wheat surplus available for export this year of $50,000,000$ bushels, but the statement is doubted in England. In the Australinn Colonies, inclluding New Zealand, the area under wheat was $8,672,785$ acres and the product $45,000.000$ bushels. The surplus is estimated at $22,000,000$ bushels, of which about $14,000,000$ has already been exported.

Ores ditches should be thoroughly cleaned out in thie fall, otherwise they whll fal to serve then purpose in the spring when they are most needed to carry off the surface water. The grass and weeds that grow on their sides should be all ro moved, so as to lebre a free course for the water. The crossing places of cattle should aloo be loubed after, and every obstruction of whatever charac ter carefully removed. A day spent in such work now mas be the gaining of tro or three days in spring-timo.

Is a test of butter producing capacity between the famous Jorsey cow, Mary Anno of St. I ambert's, owned by Mr. Fuller, of Hamilton, and a Holstoin cow ownod in Iowa, the lattor exceeded the former by . ferr ounces per veek. This year another of Mr. Fuller's cows has been subjected to a very careful test, and it is found that she has exceeded last year's record by abrut trio pounds. Mr. Fuller's herd of Jersoys is doubtless the best on the continent.

The Provincial, District and Local fairs have kept farmers busy and interested during the past month. As usual those fairs were very successfully managed, and the results hare been gratifying. To such members of tho Britiof Association as visited them no better eviduce could be presented of the position our province has made for itself agriculturaily, and gluwing accounts will doubtless be carricd to the mother country of what has been seen.

To what extent it is pussible to merease the average prodaction of crups 1.0 high culture and the use of fertiluzers, ho one can say. The editor of the Rural Net Yurler has obtained records ranging from 524 to 1,391 bushela of potatoes per acre. The ground was enriched by a mustare of fertilizers only and no manure--the ferthlizers including salt, lime, potash salts, ammonia selts, bone flour and in short every element of plant food. The experiments showed, however, that much depends on the variety of seed as well as on the use of manures and high cultivation.

A correspondent of the conintry fientleman thus states how he preyented cream from foaming thile churning "I had fuar gallons of cream, three days old, in egrthern jars, put it into a room where the thermometer stood at eighty degrees. The milk when putfinto the churn was at sixty five degrees, and the churn at sisty degrees. In fiftern minutes the butter was reaidy to be taken out of the churn, and as protty yellow butter as I ever sam. This certainly pays for heating a room and having the milk at the right temporature - It overcomes the trouble of cream forming in charning and having the butter hard to come.

A comrespondent of the Cntario Mortumulturist andertakes to Bhow that frutgrowing yields far larger profits per acre than graw-arowing. and ho takes wheat and strawbernes for comparison To cultivate an acre of wheat $\begin{aligned} \text { min } & \text { cost, he com- }\end{aligned}$ putes, at the rate of $\$ 28$ per acr and with a product of forty bushels per acre as an average price of $\$ 1$ per bushel the profit $18 \$ 12$. On the , other hand, to calterate an acre of strawberries, the compates, will cost (Including plants and
baskets) $\$ 250$, and with a product of 6,000 baskets per acre at an average price of eight cents the profit is S.230. Still it is not possible for every farmer to go into strawborry culture, and if it mere possible it mould not be prudent.
Tare present tondency in Great Britain is toward decreasing the acreage of wheat and incroasing the acreage of pasture and the numbor of live stock. Thus in 1882 the area under wheat was $3,003,960$ acres, whilo this year it is only $2,676,477$, being $a$ decrease of 327,483 acres, or about eleven $j^{1 e r}$ cent. Un the other hand the number of cattlo has increased from $5,807,491$ in 1882 to $6.241,127$ in 1844 , or at the rate of seven and a-half per cent, and the number of sheop has increast from $24,319,768$ to $26,037,217$, or at the rate of seven per cent. The strong probslility now is that the breadth sown with fall wheat will speedily fall, and that more and more of the land will be devoted to grazing purposes.

Tur asying that "rich food makes nich milk" is anly true in a himited sense. The distingaished authority, Sir Juhn B. Lares, in writing on this subject arys: "Fat is increased by rich food, but breed is more potent than food, and no amount of food will produce in a Shorthorn as rich $a$ milk as is produced in a Jersey or in an Ayrshire. The same law prevails both in plants and animals." Of course it is possible to increase the quantity and improve the quality of the mills hy judacious feeding, but a con that natarally nues bill low in the percentage of solids, albamenoids and fat, cannot be mado to give rich milk by the process of feeding rich food. The only sure wry of getting rich milk is, to select cows of the best dairy qualities and breed them to balls out of the best dairy strans, and in so doing it is not necessary to disregard beef qualities.

Is a report on the pear ilight, based on experiments and observations mado at the Now York Agricultural Exporiment Station, Mr. Sturterant makes the folloring general statements: "The disease bnown as pear blight is infectinns, and nay be transmutted from one tree to another by inoculation. It is not confined to the pear but may attack othor pomaceous froits, as the apple, quince, Enghsh harothorne, and June lerry. It is more active, and progresses most rapidly upon young and sucoulent portions of the tree " He has discovered that under. the microsenje any bit of diseased tissue shows unconceivable myriads of munte bacteria, and he assumes that there can be no rational doabt of tho bscteria being the cause of the disease. The nest and most important question 18 How ean the bacteria be destroyed and the vegetablo lfe ou which they pray be savod?

FARM AND FIELD

## W.ILKS AND T.ALKS AMONG THE FARMERSE-NO. I.

Tho subject of summer fallowing is ono that well desorves to be carefully ponderod by all intolligont tillors of the soil. Is fallowing founded on correct scientific priuoiples? and does it pay? are questions that must force thomselves on public attention in a utilitarian age litse the present. In discussing this mattor with farmors, I find in the minds of many a vague doubt as to the wisdom of summer fallowing, while sume, $\Omega$ fers, perhaps, to speak with caution, bave arrived at the conolusion that the practice is a mistaken one, and have therefore abnadoned it. For myself, I have no hesitation in saying that I am an antiffallower. Naturally, therefore, I have some atiff arguments now and thon with those who aro in favour of this method of culture. liot long since, I was arguing the case with a shrewd and sensible man, a good practical farmer, and I said to him, "Choose an example of what you consider successful summor fallowing, and let us bring it to the test of figuree." After $\%$ ferv moments' reflection, he instanced a field of eighteon acres which the thought had paid him well for the cost and trouble of the process. I took pencil and paper, and put down the various items of expense from his dictation, allowing current rates per acre for ploughing, and other operations, $\$ 3$ per acre were charged as reat or interest on capital invested in land, which will generally be admitted to be a fair average estimate. We found the total cost of that crop whon marketed to be $\$ 860$, or just $\$ 20$ per acre. The yield was thirty bushels per acre, which at $\$ 1$ a bushel gave a profit of $\$ 10$ per acro for the two years occupied in fallowing and cropping, or $\$ 5$ per acre per annum. It should ba said that the land was extra well worked, inaving been plonghed five times, and that neither labour nor espense were spared to secure the best results.
The foregoing can hardly be taken as a fair average case of summer fallowing, especially in regard to the yield, which was exceptionally good. It proves, among other things, the substautial correctuess of the statement made editorally in a recent number of The Ruma Caxadin, to the effect that there is ordinarily no profit in growing wheat if the yield be less than twenty bushels per acre. In the instance just given lers than twenty bushels per acre would have entailed downright lose, and it may safely be affirmed that summer fallowing is a rather hazardous experiment, since it involves a large outlay which can only be re-couped by a bountiful yield. On the occasion just referred to we not only subjected the practice of summer-fallowng to the test of figures; but did the same with a wheat crop supposed to be grown on a clover-loy, that 1s, a field which has been in clover (alone) for twe seasons. It is im. material to the ealculation whether the second crop of clover be turbed under or cut for seed. In either case, there is but one ploughing. We found the total cost of a wheat crop thus grown on the eighteen acres to be $\$ 128.50$, or a trifle less than $\$ 7$ per acre. This is a big difference in favour of the clover system as compared with summer-fallowing.
What are the arguments in favour of summer fallowing? 1st. "It rests the land." This is rather a funny plea in view of the fact that the land is disturbed aud disquicted by the plough all summer long. But the idea, however, is that no crop is exacted from the soil, and that therefore its productive energies are allowed to rest. Bat tho trath is, that those onergies do not and will not rest, if there be any seed germs or rootbuds in the soll that can be coased into growth.

It is the fight with this porsistent disposition to produce overy groen thing in its senson whioh keeps the fallower so hard at work all summor. The laud gains in fertility somewhat by the burial in it of those plants which grow spontanoously, and whiol are oonvortod into manure by the repeated operations of the plough. The caso is not ono of resting the land, but of giving it sereral small doses of greou manure, which of course nre beucficial to it. 2nd. The second and chief argumentin favour of summer-fallowing is that "it kills the weods." Mont assurodly it does this, and with the number of ploughings given the oighteon-acre field alresdy roferred to, may bo trusted to do it very offectunlly. But then in a good systom of husbandry, like that desoribed in last month's "Walks and Talks," thero will be no weeds to kill. Our farms ought to be clean. Not to press that vier, but taking the gencrality of land as we find it, dirty enough in all conscience, it is not necessary to go through such a frightfully toilsome process in order to kill weer ?. "A more oscellent way" was pointed out in the August isbue of this journal. Weeds can be eradicated without sacrificing a year's yield of the land, and without the drudgery and expense of summer-fallowing. Do not object, cavil, or doclare that "it can't be done," reader,-but make the experimont. It is not a costly or risky experiment, nor is it one that requires a long term of years to bring out the result. Thero are many experiments which the individual farmer can hardly be expected to make, and for which an Experimental Farm run at the public expense is needed, but this is not one of them.
There is a scientific as well as financial view of fallowing, which must not bo ovorlooked. It is as well, perhaps, in talking over the matter with some farmers not to call it the "scientific" view, but that is what it is, all the same. Is it wise policy, docs it accord with the laws of nature to keep land all through the summer in the condition to which we give the name of a "bare" fallow? Will this treatment increase the fertility of the soil? To all these queries, a decided "no" must be given. A " bare" fallow is exposed with. out protection to the rass of the sun, which liberates the ammonia and cause it to go off into thin air. Ammonia is the prime element of fertility. As the favourite food of plants, it is taken up by roots and absorbed by leaves. The decay of plants restores the ammonia they have consumed to the soil. Hence land on which there is some. thing growing every year which dies and rots on the surface is all the time growng better, because there is a gan from the atmosphere added to what is found in the soil itself. It follows, therefore, that the true pulicy is to keep something growing in the soil all the time for the double purpose of shading the surface that the sun may not rob it of ammonia, and having a leafy growth to derive a portion of its nutriment from the atmosphere. The system of cloveringis far superior to that of fallowing because of all plants, clover is the kusiest and most efficiont in collecting ammonia both from earth and air. Its long tap roots penetrate to 8 great depth especially in light, loose soils, and send off innumerable fibres in all directions. These ret like so many minute pumps in bringing ammonis to the surface, while the leaves absorb the same valuable element of plant food from the atmosphero. Hence when clover matures and dies, as it does at the close of the second season of its growth, there is a valuable deposit of fertilizing material just where it is wanted by succeeding cropis. On the clovering plan, laud does not lie idle for one season that it may yield bettor the next ; the labours of successive ploughing is avoided, weeds are killed jast as effectually; and the soil is left in quite as good a condition, is not better, for a sowing of wheat, as it is aftel course of fallowing.

## Do NOT Let THE FARM RUN DOWN.

The fortility of the soil is the farmer's capital ; on this doponds largoly his success or failure, and his great anxiety should bo how bost to keep it up to tho highest point at the least oxpenso. It is a woll-known frot that it is much casier to keep it up as we go along, than after it has been allowed to run down to mako spasmodic efforts to restoro its formor vigour. It does not pay to raiso small orops of any kind ; mediun crope may just pay expenses, while that part of $a$ large erop which is in excess of the medium crop is nearly nll profit. Hence wo know where to look for our profit, and study to devise the best means of onriching our lands at the least expense. There are saveral ways suggested. One man feeds stook ; anothor plows clover under ; another buys commeroial fertilizers. The Western man uses up all the fortility of the soil, and then goes farther West to repeat the process. I have seen something of this system, having known lands in Central Illinois, which a fer years ago produced 100 bushels of ears of corn, and which now produce eighteen bushels in a favourable senson. They tell us that this soil will nover wear out ; I know of none that wears oul quicker.
The same is the case in our Eestern States. The writer was on some New England farms, some months ago, that had once been the home of thrifty but improvident peoplo. The life of the land was gone; families were separated, and there was a dull prospect for young men to begin lifo on such mu impoverished farm; so theso bright boys from the New Eugland hill-sides seek other and more lucrative avocations. They aro full of energy aud vitality, inured to the rigour of the climate and rough, hard land. Agriculture cannot afford to sacrifice such men. If farmers wish to keep their sons at home, they must keep up the fertility of the soil.
Stock feeding is one of the most important branches of farming, and requires much judgment, care and attention. A prominent man said that to be successful with flowers you must love flowers; and so to bo successful with stock you must love'stock. The venerable Johu Johnston once told the writer that he owed his fortune and his reputation as a farmer to one pile of manure. While poor and in debt he bought an adjoining lifty acres on which thore was an old barnyard containing an accumulation of twenty-three years' manure. He found it to be a mine of wealth. He applied it to his crops, which in turn gave great returns, aud this not ouly gave him nutoriety as a good cultivator, but gave him credit with moneyed men, who freely tendered him all the funds ho desired to buy stock with. After securing an immeuse crop of corn, he fed it to stock and made another great quantity of valuablo manure, and so on, year after year. Mr. Johnston has fod thousands of shoep and vast numbers of cattle. It has been stated that in eighteen years of sheep feoding, buying in the fall and selling in the winter or spring, he never but once failed in getting pay for his feed and a handsome profit on the invostment. This shows that his judgment must have been superior, and that his stock had his personal and undivided attention.
A wealthy stock farmer in Pennsylvania once told the writer that one drove of cattle will half feed the next; meaning that by applying the manure from oue lot of cattle to the ground intonded for corn, the crop would be much larger, and that this increased yiold would cost almost nothing, while the estra burden of stalks would oortainly make the increase a donation year after year After the farm has become rich, it costs almost nothing to feed atock, as they mill hive on the surplus. I believe it costs tairty cents per
bushol to raise corn, when you raiso only fifty bushols of ears to the acre, but whon 150 buskels aro raised, the cost is reduced to loss than ton cents per bubhel.-Country Gentleman.

## FARM FEWER ACRES.

With each year's oxperienco I am better satisfied to farm a fever number of acres, thoroughly convinced that I can make moro money, make it easier, keep my farm in a much better condition by farming a less number of acres and doing the work moro thoroughly.

I find the largor crops por acre I onn raise the less they cost me per bushel, and I find the proportion in this respect is so much that it makes my farming far more profitable.

And this is not the ouly ndrantage. I am saved a considerable amount of worry and anxioty not only in trying to sow or plant a large crop, butalso in trying to plan how to properly cultivate and harvest the crop. I can push my work instead of being continually crowded with more than I can possibly do and do well. I used to think that I could easily cultivate and harvest all I could put in, and so I could, after a fashion, but the oultivation was harder work and the harvesting no better, while the profits were not always as satisfactory as I should like.

Experionce has taught me that it is far more profitable to take more time to plow the land; plonghiug deeper and more thorough; harrowing and rolling until the soil is in a good condition, before seeding, and in this way make the after-cultivation much easier.

Then in the case of oultivated crops such as corn, beans, potatoes and garden truck, I find that if I am able to thoroughly cultivate so as to not only keep down the weeds but also to keep the soil well stirred as often as possible, that not only is the field larger and more profitable, but the labour of harrestiug, is made much easier and pleasanter.

Any one who has been obliged to gather or cut up corn among a crop of cockle burrs, dig potatoes or mangolds out of a heavy growth of weeds, or hunt up the vines in the garden among the weeds and grass, knows the task is anything but a plensant oue. Either of these tasks are work, and it can be mado far more easy and pleasant if the cultivation has been suoh as to keep them clean. While at the same time in keeping down these pests or hindrances, to the work of harvesting, we materially iucrease the yioid of the crops.
Then auother advantage I find is that I can seep up the fertility of the farm much better, and in doing this $I$ have learned another fact: that if I can beep my soil rich ; can plant or sorw my crops at the proper time and cultivate thoroughly, I am in a measure sure of at least a reasonable yield, oven if the season is not the most favourable.
I am con-inced that a great part of our failures are the result of our own greediness in trying to do and get too much with too little effort of our own. Thers is too much Providence farming. We plant a largo amount in a slip-shod manner, half cultivate, and then oxpect Providenco to give us a good crop, and if it fails, cry out, "Well, that is always my luck!"
There is no luok about it, simply our own greediness and selfishuess in expecting too much from our caroless work.
Too many of us do not stop to count the difference betweon a small yield and a large one. Whou we all get to doing this we will havo less acreage planted, more thorough preparation of soil before planting, cousiderably more and better caltivatior, accompanied by a perceptible incrésse in the yield as well as the profit.
N. J. S.

## GOD'S FINANCIAL SYSTEM.

One tenth of ripened prain,
Ono tenth of tree and vino:
One tonth of all the yield
From ton tenths' rain and shine.
Ono tenth of lowing hords
Ono tonth of browre on lill nul plain ; One tenth of hleating flocks, For ten tonths' shine and rain.

Ono tenth of all increaso
From counting room and mart, Ono teuth that science yiolds, Ono tenth of overy art.

One tenth of loom and prese, One tenth of mill and mine; Ono tenth of overy oraft Ono tent
Wrouglit out by gifts of Thine.

Ono tenth of glowing words That golden guineas hold;
Ono tenth of written thoughts
That tarn to shiming gold.
One tenth! and dost Thon, Lord,
But ask this meagre loan,
When all tho carth is Thino,
And all we have Thine own.

## HINTS FOR FARMERS.

Soo that good insuranco is on the farm buildings. Keop out the cold from all the barns, stables, and the house, by banking with earth, manure, or even snow; double windows are a great saving in food and fuel. It is a mistake to think that severe exposure makes animals hardy; they are far better off under cover during storms. Plaster sprinkled on the stable floor will aid in keoping the air free from bad odours, and save valuable matorials that would otherwise escape. Uso the curry-comb and brush freely; they will help to keep horses and cattle in a healthy condition. Growing animals need comparative: y more food than those fully grown; their fature size and health dopend largely apon present care. Water at the freezing point is not so healtbful as warmer water, and requires extra food consumed to heat it in the animal system. A shivering calf appeals to the pocket as well as to the sympathy of its owner. The hen with warm feed and a comfortable house will pay for her keeping; while one with no home and little to eat will be wintered, if she lives through, at a loss. Small matters make up the sum of all comforts, and constant attention to them brings a great reward. Every farmer should be confirmed in the habit of looking after the little things.

## KEEPING POTATOES.

The most frequent cause of rotting of potatoes in pits or cellars is putting them away before they are thoroughly dry and well ripened. The safest way to mauage them is to cover them from the sun while digging, as the heating is injurions. Then when well dried in the field, remove them to a dry, airy berp floor, and scatter them on a stram bed a few moles thick, and air thom thoroughly. If the doors are opened for this purpose, the tabers must be kept from the light by a covering of straw. When it is dangerous to keep them longer in this way, they may be removed to the cellar and kept in barrels or bins, with ventilating boles or spaces made in them. Potar toes thas cared will not sprout readily until the spring arrives.

An Ohio farmer, who lately took pains to carefully watoh the movements of a large flook of blackbirds at work ir his cornfields, discovered that instead of eating the corn the birds were industriously hanting for the corn-worm. In every case where he had oxamined an ear on which a blackbird had worked he found marks of the worm, but no worm. This he concladed was strong circumstantial ovidence that the birds were doing him almost invalazble service instead of an injury.

## HOUSEEOLD EXNTS.

A stop hole at the baok door will make enough doctor's lills to pay for draining tho whole farm. Golden-rod and purple asters are now the fashionable flowers for personal as well as household adornment.
A aood way to arrange fruit in a dieh for an ornamentel piece is to set a glass tumbler in tho centre of the dish, around and over it put a thiok layer of moss, then not nearly so much fruit will be required, and it can be arrauged very bandsomely.
Tosatoes out in thicks slices and baked in a dripping paa make a most agreenble garnish. Sprinlle poppor and salt and fine bread orumbs orer each slice, and in the spnce between the slices put little lumps of butter. Bako till tender, and serve hot on the platter with meat.

Milu, croam, and butter should all bo kept as low as sixty-two degrees, at or below which point, if ever, carbonio aoid gas develops. With pure food, cows rightly trented, with olean vessels and pure air, less dificulty will be axporionced in churning than without such precautions.
Tue suil for raising house-plants should be composed of abont two-thirds good garden soil, and the rest sand. It must be kopt lightand loose about the roots, and the plants watered only as they appear to need it. I have remarkable success in raising house-plants and this is the seoret of my method.
ONE of the prettiest ornaments for a shelf is a square or oblong glass with bevelled edges. On this glass paint a landscape. A snow scene is particularly adapted for this. A glass ten iuches high by eight wide is a good size. This may be placed upon an easel when it is done, or may be glued to a plush panel, which can be hung on the wall.
You can steam oysters at home without much trouble. Get a wire basket, such as has been used for flowers will do very well, fill it with oysters in the sholl, and immerse in a vessel of boiling water, which is deop enough to complotely cover the basket of oysters. The oysters are done almost immediately. They must be opened into a hot dish where there is melted butter, pepper and salt. You may add broken crackers if you choose. The oysters should not stand, but should be eaten at once.
Darity and serviceable aprons are made of the darned net, which has beon and is so popular a material fur dress trimmings and for pillowshams. A pretty apron is mado of the darned net, with a deep rufle, with the pattern darned in. The bottom and top of the rufle should both bo finished with scallops, and then the ruffle needs no heading, and is easily put on. Above the ruffle and up the sides of the apron the pattern ebould also be worked. One or tro pookets may be put on; ono gives a little jauntier appearance to the apron. If only ono is pat on, lace it on the left side.
To whiton fiannel, made yellow by age, dissolve one and one-balf pounds of white soap in fifty pounds of soft water, and also two-thirds of an ounce of spirits of ammonia. Immorse the flannel, stir well around for a short time, and Wash in pure water. When black or nary blue linens are washed, soap should not be used. Take instead two potatoes grated into topid soft water (after baving them washed and peeled,) into which a teaspoonful of ammonia has been put. Wash the linen with this, and rinse them in cold blue water. Thes will noed no starch, and should be dried and ironed on the wrong side. An infusion of hay will keep the natural colour in boff linens, and an infusion of bran will do the same for brown linens and prints.

## HORSES AND CATTLE.

## A CILADTER OV BLLLLS.

That thore is oftentimes more merit in $\Omega$ bull for breeding purpuses than is disclosed by their outlines, by touch and shape aud apparcht quality, is woll illustrated by the history of Lord Wilton, the grand IToreford bull that sold the other day at tho Carwardine enle in Euginad for $3,800 \mathrm{gs}$.-nearly $\$ 20,000$. Mr. Houseman, in notes on the Carrardino herd, thus speaks of him in Bell's Messenger:-
"Lord Wilton himself, bred by the late Mr. William Tudge, was considered a ínilure as a show bull. At Kilburu he was exhibited by Mr. Lewis Loyd, of Monks Orchard, in Surrey, who had used him without discovering his extraordinary value, although the stock loft at Monks Orchard afterwards showed the results of his influence, and won a high reputation and the Smithfield Club's prizes at Islington. The Kilburn judges could not seo anything beyond a commendation to be due to Lord Wilton, and bracketed him with Mr. Price's Horace second, exhibited by Mr. Thomas, as worthy of that honour, nor was their judgment called in question. Lord Wilton then, although far advanced in his sixth year, was not the bull he is now, and his horeditary power was not aritten on his skin. The judges could but act upon the ovidences of their senses of sight and tonch. Mr. Carwardine somehow saw in the barely commended animal the bull that ho thought would suit his purpose ; so he bought him ; and results, both in the showyard and in the herd, have emphatieally justified his choice. Ansiety was at that show a first winner. To part with Ansiety in the prime of life and in all his show-yard glory, and to substitute Lord Wilton, was one of those acts that suggest that
' Great wits are saro to madnebs near allied.'
Oatsiders might be pardoned for thiuking it madness : and the buger of Anxiety showed perhaps as shrewd a judgment as the buyer of Lord Wilton, for Ansiety, too, has made his mark in America as well as at Stocktonbury."
Tho show-yard test is not an infallible one by any means, and those who rely too much upon it and assume to regard breeding and pedigree as of little moment, make a grand mistake. And while speaking of mistakes in breeding, thore is none more prolific of disappointment than the use of young and untried sires. A young bull of shapely form and fine individual promise every way seems so much more attractive that he is selected, and in preference to an old tried sire, bat too often the expectations based upon him are never realized. There 18 more wisdom and safety in the selection of sires of proved breeding excellence. We are speaking now of no particular breed. Lord Wilton is well adranced in years; and so was Anxiety, referred to by Mr. Housman, and which we believe was the bull with which our friond C. M. Culbertson mado so much " tronble" (for other people) in the show ring. Mr. Culbertson's Grove third, for which he paid 810 gs ., or over $\$ 4,000$, was ten years old, but he was the sire of Rudolph and a host of other good ones. There is wisdom in giving the preference to such bulls as have proved their excellence as sires, no matter what their age, and danger, as many a breeder has found to his sorrow, in bringing in a youngster who could only offer a promise of what he might be able to accomplish.-Breders' Gazette.

## SHAPE OF THE HORSE'S BACK.

The London Live Stock Journal, in an articlo relating to the selection of $a$ horse for the work he is expected to perform, after stating tho results of many observations on horses, remarks that it is the arch of a bridge, which, from its structure, can bear weight placed upon it, whereas,
nu inverted aroh would fall to piecos, or would withstand a far legs pressure. It has been observed that low-backed, or rather hollow-baoked horses, working in harness, kept their condition, whilo those with high backs lost flesh. Porsons of not very anquarng or observant dispositions would probably attrbuto this to tho fact that tho former wore of moro hardy constitution than the latter, but thes wuald be a falso conclusion. It is orving ontirely to the curvature of the back, for a horse which can draw a woight was least ablo to bear a weight upon its back, whilo the horse unable to bear the strain of draft could beat the other any day in carrying a weight. Tho lime of the vertebro indioates the sort of work for which the horse is fitted. If it is ligh the weight must be on the top to press it togethor ; if low, the pressure must be from below for the same reason. A downward ourvature is, therefore, the best form of spiue for a draft horse.

## JUDGING CALVES.

Nothing, perhaps, more severoly tries the akill of a breeder, or the extent of his observation, than his estimates of young stock at very early ages, in connection with the.aftor-results which justify or falsify those estimates. Many men who can judge fat beasts cannot rightly judge animals in a lean state; but there are far more men who can judge animals fat or lean, and yot hit im. mensely wide of the mark in their guesses upon the future merit of foals, and other infants of the farm. Their difficulty, however, often proceeds from ignorance of family antecedente. The written or printed particulars of family history they may know, in case of pedigree cattle, but until they acquire a sight and touch familiarity with their stock, generation after generation, they can not always tell the signs put out in an animal's early life analogous to the appearances of the bud of a new or unknown flower. As the practised florist can easily discern in the buds of his old favourites the best and worst flowers of the forthcoming senson, so the practical breeder, who has taken pains to ponder over the peculiarities of each calf, and to mark and remomber the course of development, knows the meaning of each charactoristic felt by the hand or perceived by the eye, and of each change in the course of growth. This is sometimes romarkable in breeders of long. established herds of cattle, who can form their opinions upon calves with the greatest precision, and pronounce those opinions with confidence, When straugers would be disposed to eutertain far different expectations, more favourable, or less so, than those of the men whose forecasts are mirrored retrospects. The accuracy of these forecasts is necessarily endangered whenever fresh blood is introduced, as the results of new combinations, or the predomination of now power greater than the old, may alter the appearances presented at tho different stages of growth. We havo kuown a sire, whose daughters at maturity were much more grand massive, and excellent than the dams of the herd into which ho was bronght, cause great disappointment when his first year's heifers began to grow out from calfiood. As they developed, his true merit was discovered. He was enlarging the scale and substance of the herd, and the early and middle stages of growth aronsed needless alarm of ultimate coarseness. On the other hand, the process of reduction of a coarse herd to neater symmetry may cause miscalcula. tions and misgivinge, while the effects of the clange are now to the owner of the oattle. Some part of the difficulty of forming accurate estiinates of young and growing stock has been folt by judges of cattle of immature ages at fairs or exhibitions; bat as judges are usuclly nelected from among mon of wiãe experience, probability is
commonly in favour of the appointed judge kuowing most of the types likely to be presented to him, and in all atages of life and growth. The man whose knowlodgo is all homespun is scarcely fit to oxerciso judicial functions in publio, howover skilful ho may be in the use of the matorial found within tho limits of his own pasture ground. His kuowledge is good within a cortain radius, but that radius is too small-Live Stuck Juurnal.

## CRUELTY TO ANIMALS.

The cruel and inhuman treatment of horses and othor animals under the provalent popular methods of ouring disenses is amazing and deplorable. In some cases it surpasses tho barbarity of savages. Indeed those uncivilized races who possess horses oxhibit far more humanity in their care anu treatmont of them than the avorage white man. The Arabs, and oven our own native Arabs, the Indians, have an affection for their animals and treat thom with a tenderness that is remarkable as compared with the civilized mode. A oase in point, related in the columns of the Country Gentleman, is well worthy of notice as a frightful example. A man supposed his horee to be troubled with either ringbone or navioular disease. He "gou a ball of concentrated lyo, (caustic potash,) shaved the hair from tro places on each side of the foot, and bound the wet caustio alkali on the skin for ten days. He then procured 'toad frogs.' chopped them finely, and bound these over the sores. The consequence was that the foot was terribly swollen, and hed two large sores upon it, and could not be put to the ground for several weeks." The veterinary surgeon to whom the case was afterwards submitted thought "the chances of the horse's recorery were about fifteen per cent." When we consider that concentrated lye will wholly destroy the wood of $\Omega$ pail in which it is kept for twenty-four hours only, the aggregate torture suffered by this poor beast during 240 hours while this terrible caustic was applied to its skin can hardly be realized. Nothing need be said in regard to the unhappy "toad frogs" fartber than to remark the utter uselessness of such an application to curo such diseases as ringbone and navicular disease. This case is so much the more romarkable, as the person implicated seems to have been a reader of the excellent agricultural journal mentioned.
The Morgan horses, 50 popular thirty years ago, seem to be coming to the front again. Their principal use has been as roadsters. They are of medium size, well-formed, docile, spirited, havo good bottom, and are long-lived.

## SUNSHINE IN STABLES.

Is your stable light and cherrinl, or dark and dismal? "It is pleasant to behold the sun." There is no more crucl punisbment than to be immured in a dark dungeon. This should be thought of when arranging stables and pens for farm animals, but it appears to be too ofion lost sight of, and stables for both horses and cattle are too dark for the well.being of the animal. The ojes of horses are not infrequently injured by being kept in dark stables. Our houses as a rulo aro much bettor lighted than our stables, yet wo all know how uncomfortable it is to go out of a well lighted house into the glare of sun.light if there is snow on the ground. The effect is even worse on our horses and cows which are generally kept in much darker places than wo ourselves. Aside from any special offect on the oyes, light and sunshine in stables are of vast importance to the general health and thrift of farm stock, and they should always be constructed with a viow to admitting as muoh ss possible of both. In old barns and stables where tite stook quarters
are dark (and whore thoy are dark thoy aro usually damp) it will be a good idoa to put in some now windows to admit light and sunshine into them. The present is a good time to attond to this, and the considerate person will seo to it.

## BIG ISLAND STOMK FARM.

Decided progress has boon mado in the breeding of stock during tae last ton yoars, but with o olear probability of low prices for wheat in the future, the farmers of tho midland district aro oalled upon to use thoir best efforts in improving their swok yards. The great drawback to tho business is the length of the winter, and for this reason tho object must be to raise cattlo that mature carly. The old style of animal had to be kept through three wintors to make four or fivo huncred pounds of what was called beef. Keoping such stock as that meaus a man struggling with poverty, and poverty a trifle the strongest. As to which is the best breed overy farmer has his orwn viers, but the Polled Angus appear to meot many of the clief points. A herd of nineteon hoad of these cattlo were shipped on Friday from the Big Isiaud stock farm for tho exhibitions at Toronto and Ottawa. A noticeable animal was the two year old bull, King of Trumps, (2895) weighing over $1,700 \mathrm{lbs}$. Two cows, Wanton, and Caroline 2nd of Kildrummy, the former Feighing $1,445 \mathrm{lbs}$., and the latter, $1,418 \mathrm{lbs}$, are finely formed. In the young cattle tho adrantages of breed were strikiugly sborn. Coquette of Big Ieland, a pretty littlo heifer of ono year and seven months, woighs 937 lbs. ; Duchess of Vernlam, one year and cight months, 917 lbs ., and the yearling bull Harvey turns the scales at 1,225 lbs. And they have not been fed with tho object of showing them as fat cattlo, merely sufficient food to keep them in fair growing condition. These weights and ages clearly show the great returns to be gained by a little attention to the stock yard.-Independent.

## SOILING CATTLE.

It is a matter of surprise to us that the solling of cattle is not universally practiced in portions of the country where the farms are small, and where the dairying is the most profitable branch of the farming business that can be pursued within reach of our large cities. There was a time when it appeared to have taken an active start, but whether it has increased or oven maintained the footing then shown, we really have no means of knowing. If we can believe the statements of those who have experimented with this system of dairying, it clearly showed that no other branch of farming paid so handsomely. "Soiling" is the feeding of cattle in their stalls or jard, instead of grazing them in the open field, allowing them to roam at will and destroying a large part of the pasturage, while to a great extent the manure was wasted. It is said that the principal drawback was the increase of labour which the system required, cutting and hauling the grass to the cattle the eo or four times a day. Whilo we admit that the labour is increased as well as the expense connected therewith, jet at the same time the saving of manure is a strong point on the other side; and the driving of cattle to and from the pastures is another; and the saving of at least one-half the land required for pastare is the strongest of all, and together would far more than over-balance this ono of labour.

Novertheless, whatever the reason may be, it is not in our power to say at this writing that wo know of a single instance in which soiling is followed by any farmer within our knowlodge. In England, among small farms, and especially in France, where there are comparatively fer large
farms, soiling is adoptod genorally as a prinoiple as tho most rrofitable modo in which at lenst dairy cattlo can be fed.-Germantoun Telegraph.

## "HORSE'S PETITIO.V."

The following was given by Farmer Croober as the "Horse's Petition," some lines which he loarned whon a boy. Wo print $i v$, recommending all the boys to learn it who expeot to heve anything to do with horses:

Going down hill, whip mo not ;
Going up hill, hurry mo not;
On luvel roard, sparo me not ;
Loose in stable, forget mo not;
Of hay and corn, rob me not;
Of clear water, stint mo not;
Of soft, dry bed, deprive me not;
Tired and hos, wash me not:
If sick or cold, chill mo not ;
With sponge and brush. neglect mo not ;
With bits and roins, 0 jerk me not ;
With check and martingale, gag me not;
With blinkers, blind me not;
When you are anary strilse mo not ;
And a more faithful friend you will find not.
Your horses havo hard work at tho plow. Take good care of them. First, give them grain remularly. Dust will gather under the collars while plowing. See that the breasts and shoulders are washed, to prevent chafing.

Uuthinking farmers will sometimes place a colt or young horse by the sido of a horse of more mature years, and expect it to do an equal amount of work without injury. Suoh a thing is not only cruel, but unwise. Many promising horses have been ruined by such treatmont.
The Prince Edward Island Agriculturist has a series of articles on Horse Itygienics, which, however good in themselves, scem like casting pearls before swine. So long as owners of animals are themselves dyspeptis, they cannot be prevented from cultivating the same discase in their beasts. Therefore, we judge that the proper method would be to change the men first, preparatory to a reformation in the treatment of beaste.-Orillia Packet.

## FATLENING STEERS.

Corn and oats ground together make an excellent ration for fattening stecrs. At first give equal number of bushels of each, ground together, which will give most of the bulk in oats. Then, as the auimal gains, increase the proportion of corn and add oilcake meal. One pound of this mixture for every 100 pounds weight of the animal is sufficient, and it should bo given in troo feeds. The increased feeding towards the last will consist in stronger feed rather than greater bulk.

Do not be in too much of a hurry to break the colt.
Large, snugly-built horses always sell for a big price.

Trotters are not suited to the farm. Farmers do not want them and farmers' boys want them still less.

- Tae loss by bat-flies in Englanł is estimated at $\$ 5$ per head, of stock, and it is also said that hides are lessened in value from $\$ 2$ to $\$ 3$ each by the holes cut in them by these pests, (warble flies.)

Horses were never higher nuless in war time. The wear and tear of city use tells on them. It will be so. Hurry and big loads empty the markets. Europe wants all our active large horses. They cannot afford to raise them. Let the good mares holp pay for the farm and the taxes. Do not patronize the cheap stallions unless you want to rear cheap horses. There is more difference betrreen one and two hundred dollura than $\$ 5$ and $\$ 20$.

## INITERESTLNA STITLSTICS

Just now unusual publio interest is felt in relation to tho animale 'f the farm, and it may therofore be considered an opportune time to give the following statemont of the principal live stook possessed by the several countries onumorated, with the acreage under cultivation in each case. The figures are taken from oflicial sources, the last avalable returns being quoted in overy instance ; but it shoud bo ubserved that they are not all brought down to the same period, for the simplo reason that an agricultural consus is not takon annually in all cases:

Acreage under cultivation :-Crops, bare, fallow and grass, English statuto acres: Russin-inEurope, 80:,521,350; Norwny, 2,795,062; Sweden, 12,189,804; Denmark, 6,183,524; Germany, 64,649,785 ; Holland, 4,985,820; Belgium, 5,506,020; France, 61,241,747; Italy, 27,416,780; Austria proper, (exclusive of Hungary,) $4 \overline{0}, 727,506$; Huugary, 27,870,247, Unitefi Sintes, 178,027,969 ; Euglnnd, 24,795,059; Wales, 2.799,994; Scotlaud, 4,790,032; Lreland, 15,151,230.
Horses: Russia-in-Europe, 16,160,000; Norway, 151,003 ; Sweden, 450,093 ; Deumark, 847,661; Germany, 3,352,281; Holland, 271,072; Belgium, 271,974; France, 2,848,800; Italy, 057,544; Austria proper, (exclusive of Hungary,) 1,468,233; Hungary, 1,819,508; United States, 10,838,111; England, 1,083,579 ; Wales, 138.810; Scotland, 188,198; Ireland, 478,912.

Cattle: Russia-in-Europe, 22,770,000; Norway, 1,016,617; Sweden, 2,191,686; Deumark, 1,470,078; Germany, 15,776,702 ; Holland, 1,434,406; Belgium, 1,382,815; France, 11,446,253 ; Italy, 4,783,282; Austria proper, (exclusive of Hungary,) 8,584,077; Hungary, 4,597,043; United Stales, 41,171,762; England, 4,216,625; Wales, 60̄1,886; Scotland, 2,C94,315; Ireland, 4,096,021.

Sheep and lambs: Russia-in-Europe, 48,132,000 ; Norway, 1,686,306; Sweden, 1,377,886; Denmark, 1,548,613; Germany, 24,490,406; Holland, 792,450; Belgium, 365,400; Frauce, $22,516,084$; Italy, 8,596,108; Austria proper, (exclusive of Hungary,) $3,841,840$; Hungary, 9,252,123 ; Uuited States, 49,237,291; England, $15,594,660$; Wales, 2,581,250 ; Scotland, 6,892,361 ; Ireland, 8,210,098.
Pigs: Russia-in-Europe, $9,800,000$; Norway, 101,020; Streden, 410,258; Denmark; 527,417; Germany, 7,124,088; Holland, 376,878; Belgium, 646,375 ; France, 5,565,720; Italy, 1,163916; Austria proper, (exclusive of Hungary,) 2,721,541 ; Hungary, 4,4.48,279; United States, 43,270,086 ; :England, 2,281,295; Wales, 229,. 964; Scotland, 156,598; Ir^land, 1,851,990.

Goats: Norway, 322.861; Sweden, 102,444; Germany, 2,390,002 ; Holland, 151,667; Belgium, 248,755 ; France, 1,522,860; Italy, 2,016,807; Austria proper, (exclusive of Hungary,) l,006,675; Hungary, 286,352; Iroland, 262,092. Reindeor: Normay, 96,567. Mules: France, 273,819; Italy, 298,868; Austris proper, (eaclusive of Hungary, 12,710; United States, 1,871,079; Iraland, 82,502. Asses: France, 892,850.

PREMIOMS AWARDED DILLON BROTHERS, $A T$ ILLINOIS STATE FIIR IN 2884.

Sucking horse colt, 1st promium.
Norman mare, 4 years old, lat premium.

Bucking mare colt, 1st proniam.
Spcepstako premium for best Norman stallign of any age, 8100 .
Streopstako promium for best Norman inaro of any age,

## SHEEP AND SWINE.

## THE LINCOLN SHEEP,

This is the largest and heaviest of all the breeds; in one instance a yearling dressed seventy-one pounds par quarter, a two year old, ninety-ono pounds, and oue three years old, ninety-sir and a half pounds por quarter; and in another cesse thirty lambs, (wethers), fourteen monthe old, dressed 140 pounds ench. The fleece is also very heary, as from fourteen months old lambs havo been taken clips weighing from ton to twenty-six pounds of wool, and in auother case from several score of them, fleeces weighing fourteen pounds eaoh, of washed wool, which is long and lustrous, fully mine inches, or over. The old brced are about extinct, their home was on the low lands of Lincolushire, England, they were coarse and large, and with a long, straggling fleeco, with muoh yolk, were slow feeders, but had delicious meat; juicy, good flavour, fine grained, and not too fat outside, though their habit was to lay on plenty of fat inside.

This promising breed was crossed by improved Leicester rame, after Mr. Bnkewell made the latter famons, and from 1862 to 1870 were very prominent at English shows, being givon a separate class in the latter year, snd have become very popular for producing markot sleep, for orossing, and for their wool. But they require very good and rich land, the best care, and are most suited to a high system of farming, with its attendant heavy root and green fodder crops. There are a few flocks of this breed in Canada, and the United States.

## tel semopshine down.

This well-known breed in Canada, sprung from the old Morfe Common, and the Cotswold, before and after the latter's improvement. Morfe Common, (a tract of 600,000 acres in Stropshire, Were originally horned, with black or mottled faces and legs, hardy and active, as large as the Southdornn, bat not compact, throve on poor pasture, and yielded a very fine fleece of two pounds, and dressed nine to thicteen pounds par quarter. Now, the Shropshire is hornless, fece and legs dark grey or spotted, thick neck, head fine, rather small and good shape, well set on, and neat ears, back straight, strong boned clean lean, body round, and they retain their early good qualities, beside quickly fattening into a carcase, at two years old, of eighty to 120 pounds of very excellent meat, which brings among the top prices and is in great demand. The ewes are prolifio and good mothare. They have a close flecee of long shining wool, about seven pounds washed, and are well sdapted to farms where their ohiof living will be got at pasture.

There are a number of flocks of this breed in Canada, and good rams can be had from $\$ 40$ to $\$ 150$, though they go to much higher prices in England.

## OXFORD DOTN

This sheep has risen rapidly into favour in England, as it was only given a separate class in 1862, at the fairs. It resulted from a cross of a Cotswold ram on a Hampshire Down ewe, in 1830, by Mr. Turynham, and some other farmers, in Hampshire. The produce resembled the Cctswold in fleece but finer, and size, and was hesvier than the dam, and by great and atcedy care in selection, the gcon points of the first cross, (no further has been made) have been retained. They are profitable in mixed farming, are hardy, not subject to disease common to others on the same lands in England; they will weigh at fourteen monthe, seventy five to ninety pounds dressed, and give seven to nine pounds of wool in resady demand; but, of course, by extra feeding, these weights aro much improved, as they have
woighed at two years, over three hundred pounds alive, bud ram's first flecees over twonty pounds. They have a round body on short legs, have dark loge and faces, a tuft of wool on the forohead, a thick, partly ourly floece, aud their ment is thought by some, when young, to be superior to Southdown.
Among the prominent breeders in England aro Mossra. Albert Brassey, Charles and J. and F. Howard, Frederick Street, John Troadwell, and George Adsme, of these Mr. Treadwell, of Aylesbury, is the foremost, a prize winner for many years past. This breed is coming into favour in Canada, ohiefly in Ontario, where, no doubt good rams oan be had at moderate prices.

## maspsambe downg.

This breed sprang from a cross, made oarly in this century, between a Southdown ram and a horned white faced sheep of Hampshire, which was hardy and largo, with large head and nose. Now the breed is hornless, has black faces, compact frame, straight and broad back, round body on short logs, and the flesh is juicy, good flavour and good proportions of lean and fat. They ma. ture early, fatten rapidly, and the lambs are large, st one year old running up to eighty-five or 100 pounds. The fleece is from six to eight pounds of combing wool, not as fine though as the Southdown.

## tar DORSBT

is a very old breed of the Soath of England, noted for its feoundity (and breeding in early season), there boing many twins and triplats, a consideration where only market lambs are required, and the meat sells at ligh price. They are hardy, quiet and easily handled, mature early, to au average of 100 younds dressed, at two years; the fleece is hea'g and close giving five or six pounds of soft, clean, combing wool. Both seses are horned, they have full, deep bodies, longish legs, though light boned, white legs and faces, the latter long and broad, with a taft of forehead wool, and black muzzle, and we should think would prove valuable here when kept near large cities and towns, though, perhaps requiring extra care for early lambs.

## A GOOD PIG.

What should it be like? Well, it should have a broad and deep body, fine bones, short and fine snout, short legs, small, fino soft, silky ears, well set on the head, and leaning a little forward, but nof falling over. The head set close to the shoulders, broad and deep cheeks, the ribs should be well arched, thus giving a flat broad baok, with the muscle on each side highly developed, as it is choice meat The length, in proportion to the bresdth, though a refined pig looks shorter than it is, from its great breadth, but it has as many bones in it as the "razor-back" breed. The nearer a pig fills a rectangular frame the nearer it is to perfection, and you may easily test ono by laying a straight stick along the back, and along the hams, shoulders and sides, and see if it touches pretty well all along.
Now, why should it have these points named? Woll, the broad and deep body give the greatest amount of choicest meat; tho fine bones, snout, and legs, reduce the offal and thas increase the ralue ; the soft fine cars show good breeding, and leaning forward a quiet disposition (a thick heary ear shows coarsences, and an apright one is a sign of an uneasy tempor).
The head set close to tho body slso reduces the amount of second quality mest, and the brosd, deep oheeks are equal to the hams in quality, and the arched ribs provide plenty of-room for lungs, stomach, \&a., upon whose working capacity depond the best results. Length of body may be sought in a grade sow, $\mathrm{gnt}^{\mathrm{dxp} \text { in }}$ in pure bred azimals
it would point to want of best blood. Tho hair should be soft and fino, the eyes lright and in. telligent, tho skin rather thin, the tail five and well set on, the feet strong and upright, and the disposition goutlo, quist and tending to rapid maturity, and good care on the sows' part, of thoir young.
qualttes wanted.
Wo want au animal that will produce the greatost amount of fiesh and lard, of the boast quality, in the shortest time and at the least cost, all other things being equal. To begin with, a pig with a large stomaoh, or with great eating powers is necessary, provided it has the powor to digest and convert it into the products desired. A dairy cow is a milk machine, a pig is a pork and lard mill, and to keep the both running moat profitably, thoy must be supplied const3ntly, wit'? all the rav material they can uso to advantago. In order to get tho best returus the pig must have a quiet temper aud not inclined to roam, for overy yard travelled and overy squeal is at the oxponse of just so much flesh; food provides blood, blood providos flesh, and from flesh spring force and action. Therefore the more motion, the more demands upon the stomaoh, and the latter calis for more food to replace the flesh and blood wasted or used; and (another important point) flesh becomes toughor and poorer flavoured the more often it is formed and transformed. If we grant that it takes three quartors of the feed simply to sustain life in a quiet animal, we see what a large extra demand must be made by tho unquiet one ; in faot the latter will hardly gain in weight (in proportion to feed) half or fourth as fast as the former.

> Large and shall breeds.

While the world lasts tastes aud men will diffor, and in this mattor we do not expeot all to agree. What suits one caso will not another ; exporience alono teaches the best, and demand ratifies the choice. But the fact is, wo have room and use for both classes, for the best breeders now generally agree that the most profitable market pig is produced from small, highly refiued boars, cros63d on large, roomy, vigorous sows. Now-a-days, early ripening is wanted, and, of course, the small breeds mature earlier than the large, (but at the oxpense of size, thus saving food, lessening risk, and giving more rapid returus of capital. As meat can be produced at much less cost dur. ing the firat year of an animal's life than the sec. ond or folluwing, and as there is more demand for small hams than for large, many good judges aay there is more money in pigs from spring litters, killed-at oight to ten months old, than at any other ago, and that it does not pay to winter pigs, except breeding stock, and a fosy to uso the waste. It does not pay to raise pure bred pigs for the batcher, and there is no sonse in crossing pare breeds as some do, for they cennot sell the progeny for breeding as pure bloods, and for feeding purposes they could get as good, or better litters, from a coarse, common, large, healthy sow, crossed by a pure-bred small boar.
yongrel or thorovombred.
We know that the majority of our farmors are well aware of the values of the two; but now and again you strike a man who abuses the pure-bred, and asks for one that will do as well as his orm. Exactly, friend, give the tro tho same feed as you supply, the same care, (or rather neglect) that you give, and let them hustle around for shelter, in the stylo you like to gee, and we grant, at once, that your mongrel will beat the pure-bred, simply because the first has been pure-bred to the necessity of the case. But givo the pare-bred the same food, care, and shelter, that made him what ho was before passing to you, and he will leave your mongrol so far behind that it would raise a
lnugh. Now wo do not mean to say that all should keep thoroughbred stook, of all kinds and both soxes, for they would not pay any one oxcept the rogulnr stook-breeder, but we do say that every farmer should use pure-bred malas of eaoh kind, as in the male lies the porer of handiny doיm tho good qualities, then crossed on commen stock. But the male must continue to have good food, care, shelter and troatmont, for thoy rapidly fall away from their standard if the samo care is not used to koep thom thoro, as was used to raiso thom to it, and pige aud sheop are more easily changed in skilful (or poor) breeders' hauds, than the largor stock.
the advantages of sheep on the FARM.

Wool is so low in price, with no certain prospeot of any material inorease, that the keoping of sheep, oxcopt under favourablo ciroumstances, will require very close and ecouomical caloulations if any profit is to be realized. I have not much faith in securing an increase of tho duties on foreign wools by a revision of the tariff laws ; and if an increase of the dutios should be obtained, it is eminently proper to consider sheep husbandry upon the basis of small protection and small roturns. Sheep fit in so nicely upon the farm that they can hardly bo dispensed with. Thay have an advantago over other stock, inasmuch as they may be made to furnieh an income twice in the year-first the wool, and then the lambs. They may bo made to do moro than this, and really to afford another income in the autumn or wiuter by the fatteuing and sale of tho old sheep or the surplus stock. After trying all kinds of stock, I have returned to sheep, belioving them to be indispensable for a complete dovelopment of all the resources of the farm. There is no stock so well calculated for rugged hillsides or rough pastures, and to provent the growth of weeds and bushes. Whore sheep have the rauge of a field, very fow weeds will over go to seed, and bushes will be so thoroughly cropped that they will either die or be kept from making much of a growth. When a farmer can thus easily turn the weeds and bushes ofa farm into excellent manure, and at the same time have them converted into mutton and wool, it is certainly a good thing. Sheep will always do this. They will thrive in pastures and get fat, where cattle would almost starve. They also scatter thoir droppings over the field, and never fail to onrich lande where they are kept. On poor farms they are most emphati. cally the best factors for increasing fertility. On rish lands the same rule holds good, as they will make them richer. By the simple means of a portable shed, which can be moved about the fiold and under which the sheep will readily congregate, the poorest ppots may be made fertile, and the whole field, by frequent and regular ohanges of the flock, may be thoroughly enriohed.

When I was a small boy my father purohased a large farm, which had been devoted to sheep husbandry for years. Ho went heavily into debt in the purchase, and I recollect to have heard him say a number of times that the sheep which had belonged to the former orwner paid for the farm. What he meant was thatjthey made the farm so productive nud caused it to yield such bountiful crops, after he became its owner, that he was thus onabled to mako his payments. This productiveness lasted for jears, and made the farm famous for large crops. There are in the older States a great many farms now run down with contmuons grain culture, which hardiy pay the cost of the labour bestowed upon the orops. In the leeping of shoop, although the direct retorns from them may not be as great as they have been
in formor yoare, the advantago to bo dorived from them in the improvement of tho soil should bo takon into account. If, by theso means, belter crops can be grown, there is additionsl inducement for stocking the farm with sheep. Thore caunot bo any doubt about this result. A number of years ago, when a largo flock of sheep was bept on Kirby Homostead, a strip of land tine most oxposed of any in the field was well dressed with sheop manure. The ontire field was sown with ryo and soeded with cloper. The portion where the sheep manure was put produced three times as much ryo to the acre as the rest of the field. The olover grew so rank that ite very nature was changed, and instend of dying out the second year, as it is likely to do, it lived for yoars and made an excellent growth.

From the facts set forth in this article, and othors, I have been led to add a flock of sheep to the stock on the farm, with the intention that the farm, under my plan, must be made to beep thom, and the cortainty that thay will be aids in its improvement and most useful factors in increasing the manure. When others go out, it is a good time to go into stock Certainly this is a better policy than to rush with the crowd and make the extremes which unzstle markets, by over-production at one time and scarcity at anothor. The whole section of country around me is now a loser on account of selling the sheep, and some of the best farmers have resolved to begin she日p raising again-this time to stick.-Col. F. D. Curts in Rural New Yorker.

## fishing with a flock of geese.

In Scotland they have a curious way of fishing that takes the medal for ease and repose with which it is conducted. The fisherman we will say is after pike. Selecting a bie goose from his barnyard or half a dozen geese, as the case may be, he tios a baited hook and line about five feet long to their feet and on reaching the water turns them in. The birds of course swim out, and the fisherman lights his pipe and sits down. In a ferv minutes the fish sees the bait and seizes it, giving the goose a good pull. The bird starts for shore at full tult, frightened half to death, dragging the fish upon the benk, when it is nnhooked.
The line being rebaited, the feathered fisherman is again sent out to try its luck. A flock of geese can make quite a haul in the course of a day, the buman fisherman having only to take off the game and beit the hooks, the pulling in and hooking being done by the birde.

Ir is said that American manufacturers prefer Australian wool to American, at same price, simply because the former prepare it better. Australian fleeces contain no tags or skirts-just the pure flecee-bit the American fleeces, as a rule, have a lot of tags and other refuse stained with the good fleeces, reducing the value, per pound, of the whols lot. Australian wool shrinks about fifty per cent. in washing, while American shrinks from sixty-seven to eighty-seven per cout.
A sarewd Ohio Dutohman was lately asked why he always ploughed his stable and yard manare noder green. His reply was:-"Vell, may pe I can't exhblain him till you onterschtandt him already, but $f$ exhblain him to ontersohtandt him mit myself, dish veay. Vonefer Iplough de fresh mauure under dot furrow, don't you see, vy, don dot furrow schmeils him all summer, und der roots dey schmells him too." Mr. Root's more scientific language is:-" When tarned under in a heavy soil all the solvent (or solable) and gaseous clements are absorbed by the soil and used by the crops."

## MISCELLANEOUS

Rememera that baking sodn gives instant reliof to burns if applied at once, cithor dry or wot.
Fansens are buby threshing their good crops, but are a littlo downhearted at tho low prices.
Or cho United States public lands over twenty million acres have been sold to nou-residont foreignors, oliefly Euglish.
Ir you have farm gates on hinges grease them monthly, put a piece of tallow or lard in a hole in the post and it will bo handy whon wanted.
A New style of rabbit hutch has a wire bottom, through which the grass extends, and the rabbits can feed themsolves, being moved from timo to timo.

Fross several of the United States come reports of great damago to crops and buildings and forests, and loss of lifo, dy cyolones, fires, hailstorms, drought, \&o.

A well-xnown pest in Europe, a small, white maggot that burrows into the mangold leaves, eating out the pith of the stalks in a fer hours, has appenred in Outario; doing great damage in some sections.
Take care of lighted matches, a farmer in Ohio lit his pipe while raking hay and threw the matoh down but soon had to drive for his life and had the pain of seeing the fire destroy all the cut hay aud sevoral acres standing grass.
Tre enty of Des Moines, Iowa, U.S.A., has raised fifty thousand dollars to secure, permanontly, the state fair, and the state adds as nuch more, thus ensuring splondid grounds and buildings, such onterprise amply repays both city and country directly and indirectly, and is well worthy of repetition.
Tae system of ensilage, (preserving fodder in a groen str ce, is having extended trial in England, as well as in America, aud calls forth the same diverso opinions upon its values and effects. One great drawback in England will be that their climate is not suited to the best growth of the chief plant for eusilaging, Indian corn.
Tre famous butter market in Cork, Ireland, was established 100 years ago, and its yearly sales reach nearly eight millions of dollars. The producers are now complaining that brokers classify their butter under an arbitrary system, they have no redress, and the consequence is that their but. ter is almost shut out of the London market.
Ensilage, (or pitting of green crops by airtight packing) seems to be yet on trial, though the Country Gentlemun ays that letters received, "seem to show conclusively, to an impartial mind, that its introduction in this er untry affords rather cause for gratitude than occasion for regret." If all that is claimed for it, or (less) be true, we welcome it with all other means of profit and success in farming, though it may be many yeara before it has a trial in this country.
Tie remarkable statement is made by Dr. Dowolf, Health Commissioner of Chicago, that mills from cows fed on swill from a distillery is much better than that from cows fed good, wholesome grass, hay, \&c., "and he brings reports of tests made by Prof. Long, Professor of Chemistry at Chicago Medical College, and his assistant, Dr. Bacon, to sepport him. The value of their, or any expert's testimony will be seen when it is known that several "doctors" could not detect milk adnlterated with a fourth of glucose and water. Any one who had ever seen the horribly filthy and suffering state that some of the city stable cows are kept in, and who knows the bad effects upon cors of feeding swill alone, will hardly be likely to accept the doctors' deciaion.

## THE DAIRY.

HOW TO RECOGNİE A TIVETTY-QCART c'ow.

When she is only six weeks old it is larrd to toll, and yet I think not so very difieult to do. I do not know that I can thll how. I like a thrifty calf, with a good sized hend, which is narrew and long, broad in the muzzle and between the cyes, and narrow between the horns. I do not care if the limbs are "stroug," as they sny in Jersey, aud perhaps coarse, but they must be straight; and the tail may be cven quite coarse at its settingthis indicates constitution. Then, from the withers to the hips there shoula bo a straight urmard slope, so marked that if gou seo the front half of the calf, you will think she is a small one, whilo if you seo only the hind quarters and loin, you rill think her sery large. In fact, in point of symmetry, the front and hind quarters ought not to mateh, and the latter should be by far the larger. I prefer long-bodied, open-ribbed, flatsided, deep-bodicd calves. The skin shoutd be loose and flexiblo all orer the body, so that one can grasp a handual almost anymhere. The coat mast either be long nad silky, a little iongh, perhsps, bat not harsh, or it should le sofi nud furry. With all this, you should find the hats of good size, rell spread, and all the skin about them, before and behind-that which will corer tho udder-loose, soft and clastic, showing as the Scotch say, "plents of leather." such at calf will mabea goch miller if she is bred at a year or fifteen months old, and after her first calf goes farrom (but not long ary), for a year, or acearly that time, to give iner a chauce to grom. I say nothing nobout the escutchern, because I do nut bnowr rery mach about it, and do not beliere in half that is said and written about it Still I must say I rould prefera good, broad, well-minged escatcheon, of the Flanderino type, for if the escatcheon slaors anythiog, it indicatics staying power, which is, perhajis the griatest merit a cow can hare. Mary a twelre or fourteon-quart corr will best a trenty-quart ane in the loug ran, especially in her butter record, a true hist of a cok's ralue.

## CREAMRMG WILK AN HNTER.

Daring the cold weather milk from which batter is to be malic will neca special attention and care. It is customary with farm dairies to hare trooble rith their cream at ihis scason of the year It has fleciss in it, or it den't cham well, or the cream rises imperfictly aud does tot hanth right -is too bitter, too soar, too strong, testes leal, or smellis bad or is "off" in some may. Thic srcat ment riaid will rercedy the greatest unaber of defects in minter milk is senlding it This will make the creaun riso quicker andhave morre flamorr and colour. The way is scald it, if an spocial prequration has been made for doing it, is to place a pan or ketlle of ratur on the ceok sinve and let it heat to loiling. Hase the marm wilk as seon as it has been strained, in a tin resecl and at this ressel in the mater, and let $1 t$ remain zill the miik is cealding hot Tn detcimine mhen it is hot enoagh a inermencter is very courenichin The milk may te takca ent when $a^{+}$is un wo forte-five degress If a dermometcr is Lot in hand, heat till the wrinkies forra thicily on thp of thr milk and nit orer the sarface raridiy. Then set it 2mas in puas for crean to rist, which it rill dio quickly, bat it will bo mach thunice than cream from angcalant milk, but it will, nerertheless, mako mone batice thas the thantier coat, as well
 skim earis, keer the erea:n well stirred, so it sha!! ail lano tho same icmppratinno aul gc: Lho sawt siring, and charn ofice. To koep tho flatour of
winter butter pure see that it takes no seent from victuals cooking on the litchen stove, or from grease or other matter slopping ovor aud burning ou the stove. Cream, whilo rising will absorb all such odours and carry them into the butter.National Lite Stuck Journal.

## MAKLNG FILSTCLASS BUTTER.

Prof. L. B. Arnold, who bears the reputation of being one of the most successful experts in the dairy business, lays durna the folloriug maxims in reference to making first-class butter :

First-To make tho finest-flavoured and long. est-keeping butter, the cream must undergo a ripening process by exposure to the oxygen of the ar whle it is sweot. This is best done whule it is rising. The ripening is very tardy when the temperatues is low.
Second-After cream becomes sour, the more ripening the more it deprecintes. The sooner it is then shimmed the better, but it should not be churned whilo too norr. The best time for skim. ming and charning is just before acidity becomes apparent.
Third-Cream makes better butter to rise in cold air than to rise sooner in cold water, and the riik will keep sweet longer.
Fourth-The deeper mulk is set, tho less airing the cream gets whilo rising.

Fifth-The depth of setting should vary with the temperaiure; the lower it is the deeper the milk znay be set; tho higher, the slanllower it should be. Milk should never be set shallor in a low temperature nor deep in a high one. Setting deep in cold mater economizes time, labour and space.

Sixth-While milk is standing for cream to rise, the purity of the cream, and consequently the fine flarour and keeping of the butter, will bo injured if the suriace of the cream is exposed freely to air much warmer than tho cream.
Sorenth-When cream is colder than the surroundang arr, it takes ap monsture and imparites from the air. When the air is colder than the cream it takes up moisturo and whaterer escapes from the cream. In the former case the aream prurifies the surrounding air; in the laterer the air helps to purify the cream.-Juarnal of -igriculaurs.

## SHFT CIEESES.

There are numerous circumstances in the manquacture of checse by varying which, all in one direction, wonld make ancuecse as hard as a brick or as suft as a padaing. First, the older and ncarce sour the enilk, and aricer and harder the cheesc, all otiocr circumstanees being the same ; and the newer and swecter the milk, the sofer and rovister will the cheten be This is because old milk is already on tho road to decemposition, and its parts (water as well as others) sour all the more readily than those of now and sour milk. Whey is separated lrom curd by the chemical ac. tion set up in milk by the influence of rennet, hence if all other conditions remain the same, the more rennet nsed, the mone rapid and completo will be the scparation of whes, and tho harder and drace the cheese, and the less rennet the sefter 36 will be. In a similar mas catting the curd can bo mado to sary the cheese, by aiding or obstract ing the mechanical separation of whey. Tho carlier and finer the curd is cot, tho less tho zoccianical (ibstruction in the was of the escape of whey from the card, and the longer it is left withont cating, and the lass, $I$ tho lamps of card, tho more dificulty will the whes haro in escaping, and, cunsenucutly, in: mure it rill be retrinod to mako the chcose sof. So mith time and temperature. lunues acis chust uguruasi'y at llood hoat, and consoquently whey separatos most rapidly phen
the curd is at ninoty-eight degrees; and the longer the time of heeping it warm, tho more thoy will bo exhausted and the drier tho cheese. Souring is nlso an officient means for oxtracting moisture and makiug a ohecse dry and hard, and should be guarded against where soft cheeso is wanted.National Lire Slock Journal.

## -FANCY CHELSE MAKIVG.

The tollowing is the pith of an essay on "Fancy Cheese Making," writteu by T.D. Curtie, of Syracuse, N.Y': " Pure, whole mill from healthy cows in sweet pastures, or fed duly balanced rations, in stalls, is requisito. T: moro directly it goes to the vat the better. If bept over night reduco the milh to sisty five degrees. An agitation to keep the cream from rising is desirable. Mix night's with morning's milk when ready to work. If cream is to be incorporated, warm it and pass it through a wire strainer. Heat the mille slowly to eighty four or eighty-six degrecs. Add your colouring matter and rennet enough to begin coaguantion in ten or trenty minutes as desired. Cut the curd as soon as it can be done without waste, as fine as beech uuts. Slowly raise the temperature, gently stirring it the while, to niucty-eight degrecs. Hold it thero to the end. Draw the whey as soon as there is the least siga of acid, or before. Get sufficientrennet action to espel the whey before the acid develops. This preveuts tho phosphate from washing out and insures a digestible cheese when properly cured!. If you cheddar and grind, or not, thoroughly stir and air the curd, to get rid of bad odours and develop flavour. Put to press not above cighty degrees, and place in an even tempered curing room at sixty.five to seventy degrees. Aroid direct draughts of arr aud carcfully turn and rub the cheese, which will bo prime."
Tae cheddar checse of Canada is made by draining off the whey while it is sweet, the curd being allowed to sour afterwards. There is more nutriment in the cleddar than in the common checse of the States.
Tue American Cultirator tells how a kicking com can bo well utilized: A farmer who bought a cow which neither he nor his men conld milk, fond that ho could malo her profitablo to suckle calres, which were very high priced that senson.
Cows that are watered from stagaant ponds or wells in the barnyard will givo milk more or less tainted, and from which it is impossible to make the best butter. So largo a part of the mill is water, that the drink of the cow is of quite as mach importance as her food.
Tar idea that apples dry ap the flow of milk arises from turning coms into orchards to prek np the fallen fruit They get a rery uneren supply, ayd after heary winds undoubtedly get too many. a fert fud dails will increaso the flow, and the amount fed mas grsdually bo increased with benefit.

The Utica Herald tells of a dairyman who was troublect with the smell of garlic or wild onions in tho mill To obriato thes, to pat the cows an the staibld nbont threo o clock ecery aftermoon aud fed themfon hay and garo grain as usana. The result wias all ho anticipated. A rest of threo hours ayhorrd tho scent to pass off in other secrouous, hongh proviousig it faroured both mulk and butler.

Wires a cow loses ono of her teats it does nut follon that her setual ralue is impaired, except as it may make milking more difficalt After tho milk reins haro become accustomed to the chango all tho milk secreied mill go to threo teats as mell as to four. Losing a teat is an indication that a cuw is or has beena great milker, and mas, therofore, be fiurth muro than ono that has norer had Ray saci dificalty.
\$tientific and alpefut.
BoIl the potatoes (with their jackets on) in an old tea-kettle.
Hot soda kater is good to scrub sinks with. Pour some boiling hot into the pipe, to cut the grease.
Ham should boil slowly, and be left soaking in the broth till cool. It will thed be juicy and delicious.
Pin.cusilion covers made of cheese-cloth embroidered and trimmed with lace, wash well and keep their looks.
"I Havo Surtered!"
With every discase imaginable for the last three sears. Our
Drugerst, T. J. Andersod, recommending
"Hop Bitiors" to me,
I used two bottles!
Amed entirely cured, and heartily recommend Map Bitters to every one. J. D. Walker, Buckner, Mo.

1 write this as a
IWrite this as a
Token of the great appreciation I have of
your Hop. Bitters. I was allicted
With inflammatory rheumatism !!!
For nearls
Seven years, and no medicine seemed to do me any
Until I tried tro bottics of your Ilop IBitters, and to my surprise I am as well to-day as ever I was. I hope
" Iou may have abundant success"
"In this great and"
Valuable medicine:
Anyonel wishing to know more about mo cure?
ay cure ?
Can learn by addressing me, E. Mr. Williams, 1103 l6ih sireet, Washingtod,
D. C. D. C.

Remedy -1 consider your 6 n Remedy the batitemedy
For indigcsuon, kidarey
"And nerrous debility. -Consflint Returaed
"From the soath in 2 fruitless search for health, and find that your Bitters are doing me more
Good!

Than anylhing clse ;
A month 2fo I was extremely
"Emaciated!!!"
And scascely ally :o waik. Now I am Gaining sirength : acd
"Flesh!"
And baidly a day passes tut Fhat 1 am complimented on my improved appearanec, and it is all due to Henp
Bitters! J. Wickliffe Iackson,
-ififmingrom, Det.
ETV None genuine without a bunch of gieen poisonous stuff with "Ifop" or "LIups" in their name.

To remove rempants of ajd oil-cloth from flos apply a very hot flat irod which will solted it, so it can be scraped cff.
To take cut scorch stains frem white gocels simply wet che parts and lay on the grans in the san.
IVhuman Cinemty.-It is 2 tarbanc crivly to torture the wrak strimachs of chronic invalids mith harsh purgatives and sickening drags, when Iaraock 13100 a biters will segulate the stomach, bourels, livet and kidneys in so agrecable acd effectual a mancer.

If you have tin haking powder buies, use them for spices. Alarked, aud ranged along the shelf they are rery conrenieat.
Custor sapetrons the use of fruitat breakapple sance as beirg couliog and laxilife.
A GOOD Testr-Fcr orez sixiceu gears G. MI. Everest, of Furest, has sold liakyard's Pectoral Baleam. and its sales are sleadily iocreasiag. It cares cerghe, coics 201 al lang camplaio
Soma Biverit -Oce quart of tour, ode pios malli, piece of trilies sure of an ceg, nac seaspootiol soda dissolve. th milk, two tea. spoonfals crean tariar sifted io ficer with selt.

If you wish 20 frest a thathroum xiadow instead of turif a curtain, jut a small, prece
 aod thes, thea rat the windon creris cican the
 the ged. When quite dery, va-aish it.
A Goor Fec un Im ne the many thomsand voivles of ilanjari's 'ic'bum Ol
 sire axizactace. It carca sheamaism, cold ard all painfal complaicts and iojuries.

## 25 YEARS.

Mic WIIIIAM PIVEY, Woolbtock, Ont.

 2vo jears, und have found it a nover falling
remedy for all discatecs of tho lungs. I would strongly recommend it to all purboun with weak unht, or inclined to cohsmuption.
JUUS J M.M.I, A CO, Druahints, in tho mane place, write: " This is to cortify that tho
 very valuable ono, un uccount of the writer's reputation und rood standing in this comsmunty. Ho metres of the Balsann and was pleased tu have an opportumty to tentify in its favour. Wiv have no medicme an urestoie that
 no matiofactiong
Biare VFintar'm Eninam of Whatl ehery always at hasul. It cures Cougho. Colds. Ironchatis. Whorphug Cuanh, Croug. Inducaze, Cunrumption, ktid all Throst and Loum' Cobmhoints. $\omega$ ceuts, and $\$ 1$ (N) a butele.
 mat murcherex convenemith pertect. Schools

25 BEACTIFLL FANCYMIXEDCARUS 25 Lu, if. slike, with name, 10c. 25 COXIC TRANSPARENT CARDS, 10C.
 QUEENNCITYCARDHOUSE
 3THE FARMERS' GUIDE.

Cusidian Xiarmers Mrinnal.f doriculture.



W11.1.5.2.7150. 8. CO., Torouto

 NOVELTS CO., Chnharallo, Cun.




> C. P- MIIIISS,



-IfON GLOBE TOP STOCX FUNTS










Health Gained, Long Lifo Socured, EY USINC

at Purlfios :ho Blood, It Cloanses tho Liver, (at Scongthens ihe Kidneys, It Regulates tho Bowels.
THETHFL』 TExTHMUNY.
KIDNEY DISEASES.
"Iavitren
sity

PILES! PILES:1

CONSTIPATION.

 RHEUMATISM.
"ifrourfermp girtirty
FEMALE COMPLAINTS.

FOR THE BLOOD.

 MALARIA.



It acts at tho samo timo on tho XIDNEYE, LIVER And EOWELS Etimulating them to hoalthy action and kooping shom
in perfoct ordor. Sold by all Draztich, irico $\$ L 00$, Levciduelrat. Tbniatier can insuat by mesh
. WELLS!RICHARDSON \& CO.,
BURLINOTOH, VERMONT, U. E. A.

## TBNEQKMORT

A MTLTLTON A MONTH taro bocm THi Diamotip

 trifis, सulueosos:

Humphreys' Homeopathic Specilio No. 28 llervous ilability tiviturakness, $x+2+2$


## HUMPHBEYS <br> VETERATHARY <br> VERESSECIFICS

Horses, Cattie,Sheep Doge Ho 3 , Poultry


A. A. Cam Firforn in finfics.

13. M. Stralng Inmentas, nhomen an zic.



1. X. Camerirapilve Dlimerack. Wase.





erpamphipls sont froo on eroveluen.
HUSPPHREYS Homeopathic hied. CO
100 Ealton seret, INw Iorko.


Elck Headacle and relievo all the troublea Jncl d ut to a bllons btate of the gystem, auch an Diz
 able success han Lexn huwn in in curiug

## S1CK

n-adachc yct Carter'sLitlle Lircr Pillsare cqqully turable in conkupaion, critidg end preventing



Ache thes tronld be almost pricelias to tho Ache they wold distresoling complalnt; but fortu

 abir in so many liays lhat thry will not bo will
to do vilhuut itim. But after all aick head

## AGHE

In the uane ct so mang lircs that here is where 7 muke our great bosit carter's l.ttle Lirer Tills are rery mmall and provesytotilic OAn or two phemakea dosc 1tuy are risiculy rewiable and da nut grpe or



CARTER DIEDICIKG CO., Now York City.
 mith aldroved houl. Choico yount steck for ale.
Trid. SMIrng Columbing ont. 1 randir and horthoran. Clintec joung wiock for ixile. Saf





BAKKlaiE CEMTIEICATES, Soutalile for agy lruntec, and maj bo naod by

 Croniryvocopian mallod to any adurosh, iroe of portro. 0 via
C. BLACKETZ ILOBIXRON

Orites-5 Jorlan Strnoz Drawc: 202. TCronto


CRAPE VINES $\% / 12$


## Sawing 開lade Easy:




# GOOD PAY TO AGENTS. 

Agonta wantod lu ovory villsto, town. and tormblifp, to mako athorough oanvass for tho liolial OANADLAN. Ifberal induco-
meuts. Vork to commoncu at ance. For full purtlcularsadmeats. Work to commoncu at once. For full yurticula
iroas Jordan Street, Toronto. Publisher.

## Che zurnt camatian. <br> TURONTO, OCTOBER, 1884.

## UNDERDRAINAGE.

If farmers spont monoy only in underdraining and otherwise improving their lands, running in debt wouldnot be for them the objectionable practice that it often proves. And it sometimes is necessary to borrow moncy for underdraining work, as there are some fields so unproductive before being drained that they would nover pay for the labour of cropping. In sucle caees it may bo good economy to borrow money for making the desired improvement, trusting to repay it when the crops are harrested and sold. Now that ditching machines of an efficient lind are being made, it seems to us that the mosi economical way of conducting uuderdrainago worts would be for one or two persons to buy a machine and operato it in a neighbourhood during the spring, summer and autumn months, just as is done with a threahing machine in fall and winter. The threshing season does not usunlly last more than six or eight weeks, but employment for a ditcher might be found for as many months. A great many more of our Ontario farmers mould gladly underdrain their land but for the difficulty of procuring labourers of the requisite shill, but with the more general use of machmes the work might be done bothefficiently and economically. The ditcher indeed promises to become as valuable an aid to the farmer as the self-binding harvester. It will do its work better and quicker than hand labour can, and there is every reasun to beliere that for a time at least it will reduce the ligh averago wage now being paid to the farm labourer. Wore work and higher cultivation are what wo require in this Prorince to give to the farmer the largest margin of protits, and the greatest hindrance to these is tho prevailing high rate of rages for hired men.

## Fonestry.

The Ontario Clerk of Forestry has been making a tour of ybe castern and northern parts of the Province, collecting information for a forthcoming Report on tren-planting, the preserration of foresta, and general matters relating to tho important subject of forcsiry. Mr. Phipps will doubtless give valuablo information to the country, and there is no better way of gathering it than by a personal tour in which he will see that has been accomplished by the thoughtifl land holders, as well as what the results of certain lines of policy hare becn. Ono of the great diffirnltiey in the rey of forestry reform is, that our country is as jet too joung to demonstrate tho evil cffects of denudation. Orring to the great depth of allu vial soil in the larger portion of the old settled districts no serious harm has jet been done, and it is possiblo that the cleare area might be considerably increased iv thoso districts withnut much rick being incursed. But it is very differ. ont in tho more northerly districts, where the rocks are rithin a fer feet of tho surface and where the soil is speeduly parched apon exresure to the sun's heat. Fortunately the sether has not Sct mado sny great pmorress there in clearing ti-n Foods, and if timely adrico is gren and follomid tho great mistake whick has been committai in other countrics of enmilar olaracter may bo sroided. Thers aro locilitics in tho Maskoks,

Parry Sound and Nipissing distriots, in tha Val. ley of the Tront, and along the northern and southern shores of the Georginn Bay that should forever remain in woods, and that will unfailingly be of greater value to the owners of the laud if they so romain. If any one necds to bo convinced that this is the truepolicy he need only make a tour of the Now ling. land States, where sottlement began at a much earlier dute. There ho will beo almost ovory hillside, and indeed almost overy mountain top, stripped of its wilderness cover and left a wasto of bare rock or parched soil and generally useless for any agricultural object ; and nowhere elso on the contivent can a more practical and useful lessi $n$ in forestry ba studied than in thoso States. May we suggest to Mr. Phipps that he make this tour, and èmbotly his observations in the Report on which ho \& engaged ?
$\triangle T U C K-T E E D I N G A$ IUE EXHERIMENTAL FARIM.

An interesung pamphlet has been prepared by Prof. Brown of the Experimental Farm at Guelph, giving the closing results of a series of oxperiments in the feeding of cattle and sheep. The experiments with cattlo were made with twenty-one auimals, extending over a period oi 196 days, divided in to seven terms of twenty-eight daya each, and the cattlo being divided into seven groups of three each per term. The conditions were the following:
1.-Half-bred Shorthorn stecrs, averging exactly trenty-four months at finish.
2.-Equal stable accommodation, management, and grooming.
9.-Similar previous menagement.
4.-Equalizing of animals in groups.
5. -Weighing of every article of overy mal, and water cousumed.
6. - Weighing of unconsumed food.
7.-Animals weighed every week.
8.- The changing of every 'group of cattle to differcut food ceery term of twenty-cight days.
9.- The daily record of stable temperature.
12.--All grain ground into rough meal, hay whole, except in corking, and roots sliced.
11.fFerding at 7:30 a.m.; 11:30 a.m.; $\overline{0}$ p.m., and 8 p.m., daily.
12. - Exercise for half nu hour daily.
13.-Rock salt always in mauger.

Eleven mixtures of food were giren in the course of tho experiments, and the relurt gives a caraful andyssis of the results mith ench. Tho complarative results aro given as follors :

| Food. | - Avcrago \|weight of stecrs 'duriag exreriment. | Daily Rate <br> of Increane. | Cost of <br> addion 1 <br> 13. to live weight. |
| :---: | :---: | :---: | :---: |
|  | lbs. | lbe | cta |
|  | 1171 | 27 | ${ }^{3}$ |
| Mixture of grain mih (iake. | 1172 | 2 | 113 |
| Mlixtom of grain with |  |  |  |
| Thierlng $\ldots$, | 11103 | $2{ }_{1}^{21}$ | 117 |
|  | 1170 | 12 | 8 |
| Tus | 118 | ${ }_{13}^{13}$ | 10 |
| Whito Pratieg. | 11 ci | $\mathrm{l}_{3}{ }^{\text {a }}$ | $10^{16}$ |
| Hiack Barieg | 1172 | 11 | 113 |
| Iiny, Ramband Mran.: | 11023 | 24 | 33 |
| Traxekel Euad.....: | 1108 | 21 | 9 |
| Cooked Food | 8こち | 12 | 3 |
| Aterafo | 1122 | 2 | 10 |

From this it appears that for rapid proiluction the highest result fas obtained from tho feeding of uncooked food, consisting of bay, roots and nical-the srerage rate of increaso being tro and threc fifth pounds per das. Tho noxt best result was obtsincd by feeding a mixtaro of grain and | Thorlog's condiment, and corn followed as a close
third. But for rapid and cheap production combined the advantage lies with corn foduer; the mixture of grain with hay, roots and bran coming second, and uncooked food third. Cooked food, strange to any, gives a result but very little better than the worst, and when we consider that it costs more, and is likely to mako a moro tender travelling animal, the linowledge of the fact becomes doubly important. In commenting on his oxperimonts with the leading foods Prof. Brown says:
Though lowered in nutritivo valuo by mixing with hay, roots and bran, the peas ration is yet very much higher chemically than any of the others, and accordingly, we would expect corresponding results in animal increase, if not in cheapness. It does not do so, however, and thus wo meet with one of tho puzzles that troubles the scientific student. This experimental station has, in previous years, shown that peas tako a high position in animal feeding-and wo must not forget thas,-but now the record is much lower ; we want more than one and three-fifth pounds per head por day, and a less cost than eleven aud a half cents per pound. Wo want fully two pounds and less than nine cents.

The two kinds of barley have mado an oven record, being, for all practical purposes, equal to each other, and their average is very little under that of oats. Oats, therefore, hare taken their proper place, when chemically considered, in relation to barley.

Corn, as the prominent coarse grain of the United States, is not, chemically, of very high standing, as by itself the nutritive ratio is only $1: S .3$, and although in our mixing of it with hay, roots and bran, it has beer raised to $1: 4.81$, this position is still the lorcest of all the list.

When, therefore, we have the most distinct evidence, by trenty-one head of cattlo throughout seven monthe, that corn, as a regulating portion of a ration, has giren in cheap and rapid production, no less than treuty-five per ceut. better results than the arerage of all the others, and ten per cent. better than the bust of the others, a fair judgment can be mado as to its value in the minter feeding of cattle, irrespective of any chemistry. Why is it? It is high in degestille organic substauces, therefore, low in indigestible; and it is also high in digestible fat. If these experiments stand as a correct gude, it mould pay to feed corn at suventy cents a bushel as against peas, oats and barley at an arerage of fifty-six cents. It is Worth noting that in tho uso of corn very much less rater was consumed throughout the wholo test, almost ten per cent. less than the mean of the others.
Is it not, aiter all, more the cost of the food than its chemical standing that regulates the cost of producing beuf?

If a man lind no grain to spere, but plenty hay and turuip, with cousiderable bran from his own grists, it appears by these notes, that he could turn out stecrs at less cost and a greater daily rato of increaso than the average of those who feed barlor, oats and peas. This is not the first time the Ontario Experimoutal Farm has dremn attention to tho rapid and cheap gromth of young storo cattle unon such a dict.
As to profit of feeding, Prof. Brorrn girce tho results for forty cattlo handled last vinter in connection with his cxperiments as folloms:


This gires an arcrago profit of about thirty dol-
lars per head, whioh under all tho circumstauces should be regarded as onecuraging.
Experiments wore algo made with the maturing of Shorthorn, Hereford and Aberdeen Poll grade stecre,-three of each-account being taken of ngo, weight at close of the period, and daily rate of increase. The averagos for each class were as follows:

| Grade. | AgO in Daye. | weight lbs. | $\begin{aligned} & \text { Daily rato } \\ & \text { of In. } \\ & \text { creaso lbs. } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Bhorthorn | 884 | 16.5 | 1.92 |
| Hereford. | 700 | 1508 | 2.15 |
| Aberdeen Poll. . | 737 | 1598 | 2.17 |

The advantage of early maturity is consequently in favour of the Hereford grailes.
The experiments in feeding sheop are given by comparative results in the following table, the test boing with Oxford and Shropshire grado wether lambs dropped in the spring of 1889:

| Food. |  |  |  |
| :---: | :---: | :---: | :---: |
|  | dus. | lbs. |  |
| Oats and hay. | 280 | 143 | 9 |
| gess and hay. | 175 | 124 | 12 |
| Beans aud hay. | . 35 | 117 | 19 |
| Low feeding... | -63 | 112 | 22 |
| Eigh feeding... | $1 \cdot 40$ | $12 \overline{0}$ | 123 |

In his aualysis of the tests Professor Brown says:

The rapid aud cheap production of mutton in winter has been attained best by the use of oats and hay, and second byjeas aud hay; this places six mether lambs as equivalent to one two sear old steer. The average of these tro ouly distinct ordinary forms of feeding sheep in this test equals one-third of a pound per head, per day, and ten and one-half cents for the added pound in weight.

Beans do not scem to act as profitable grain for sheep, as the rate of gromth of the average wether is littlo over half, and the cost of production is doublo that of peas.

That poor feeding is expensive feeding is rell illustrated here; not one-third the ordivary rate of progress, and twice the cost of production, mast be rery much the position of those who practice what they consider economy.
The case of what is called " high fecding," although apparently good in results is yet no cqual to moderate management of lambs, which can ovidently be cxpensively fed for their age, and oven lept back by a high pressure process.
It is in tho conduct of such experiments as these that tho most valuable work of tho Experimental Farm is done, and wo are pleased to sec that Professor Brown has adopted the plan of giring his resulto to the public promptly and in bricf form, instead of raiting severnl moniths to produce them in an claborato annual report which not ono farmer out a humared in the Prorinco orer sees.

Varinsuen traggons should nover bo housed in a stable or where any stock is kept, for the ammenia that comes from the maunro bills the life of tho rarnish, destroging all the gloss. It is always best, if possible, to keen varnished carriagos and maggous in a building amay from tho barn.
Th proadside, (Highland hastess shows a lady friend through the house). Lady frient -"You keep tro pianos in this room.' Eighland inesters-"Och, yes, yes. We keop Wan for to musick, and wan for ta proadside (sidebord)."-Builic.

## THEY NELTHER TOIL NOR SPIN.

They neither toil nor spin, they wear
Their loveliness without a care
As pure as when the Master's feet
Were set amid their perfume sweet.
The summer hills rejoice to see
Their carven censers swinging free.
They wait within the gates of dawn
Till all the watching stars are gone;
Then open cups of honey-dew,
To greet the mon's returning
To greet the mon's returning hue.
O, fair, wise virgins, clothed in white :
0 , lilies, fresh from looms of light 1
I deatly love you for the word
That stars you, noted of the Lord,
I love you when, in gold and red,
The sunset colours ofer you spread
The sunset colours o'er you spread:
Or when like fairy sails of snow,
The river rocks you to and foo.
You are the Master's fowers to me
His smile upon your grace 1 sec.
My transient discontents I hush
If but my garment's hem ye brush.
Aod everywhere your fragrance brings
This message from the King of kings.
This message from the king of kings.
" We neither toil nor spin. And ye,
Who spin so long and wearily,
"Who toil amid earth's grime and dust,
Behold-a mallowed arc of trust. Behold-a ballowed arc of trust.
"O. pause and hear the Father say
His angels are your guides to day
"While worlds in matchless order move,
Ye sball.not slip from sovereign love;
"For He who bids the planets sweep
Cares for the tiniest babe asleep."
Cares for the tiniest babe asleep."

$$
\text { - Mararsaret E. San }{ }_{3} \text { ster. }
$$

## SIR GOHN LUBBOCK:

The Lubbocks have for generations been identified with Roberts, I ubbock, \& Co., and ins ine great house of been eminent for their scienunic atlanoments. Sir John's Rather the head of the, firto, was also Treasurer ot the and the author of numerous paners on mathematical and astronomical subjects. With his share in the bank, the present Sir John inherited his father's laste for science. He cntered the bank at the eally age of fifieen, and becarae a palliner in 1856, and was active in the discharge of all his
business duties. He introduced improvements into the Clearing IIouse system, was first President of the Institute of Bankers, 2nd 525 appointed to serve on the Interaational Colazke Commission. But it is not by his financial norks hat sir john is known. ric appeals to wider circles than he commenced to contribute to philosophical jouroals and the Transactions oi the Royal Sociely. The most widely krown of his researches are those upon certain groups of insects, and upon wild fowers in relation to their fertilization by insects, and cvery one who has, read his most fascioating
book on "Ants, Beer, and Wa; "must have risen from the perusal with lore for the wan, as mell as wonder at his patience and ingenuity. His story of the afficlions, memory; habist, and behaviour of 2nts, at home and abraad, sober iatoxicated, and chloroformed, is simply a marvel of investigation. Fit wonld be too 000 g to coumerate all his hritings;
it is sufficient 10 say that in addition to natural history, Sis John has devoted much time to ethoolonsy and his "Irebistoric Times" and "Origio of Civilization" are authorties on their sabjecis.
The work of the head of a bank and a student of science is not often successfully performed by one man. Sir Ioho,
eminently successfo. in buth, has also distionuished himsil emineatly successfa. in buth, has also distinguished himself
in Parliament, Io Parliament, ile 3 introdaced and carmed through the cal ase fourteen important meausures on banking and medi cal chairs; be succeeded in haviag passed a bill to preserve
ancient monaments, and in IS77 cawe promigently to the anciet monaments, and in 1577 cante promigently to the
front bo moving the previcus question to Mr. Giladstones frosolutions on the Eastiern question. IIe is 2 member of
resting conntless leamed societics in Englavd and abroad, and a doctor of sundry colleges.
Bat all his
Bat all his writings, his rescarches, his money, or his honours would not have insured the immortality that araits
ham. Eiches may make themsclices and fy $2 w 2 y$, the science of to-day is obsolete to-mortow, bat the man whe can ereate foct anowal holidass will have his name harded down to the remotest posterits. By the Bank Holidays Act of 1 S 71 Sir Joha performed this leat, add bow the Loadon clerik celebrates St. Lubbock's das as if it were daly catitled to its place in the calerdar.
Sir John was born in
Sir John was born in 1534 , and was marricd for the second time ia the spring of this year. IIe sofiers severely
from occasional fits of from occasional fits of goat, which, however painfal, are not
dangerous. dangerous.
Engiand may weil be proad of soch a 500 . The anion of 2 houdon banter win 2 business so resporsible as that of

firm Prescott, Grote, Cave, Cave, \& Co., proves that a baoker may be something more than a mere money spinner, and that a student need not lee devoid of business ability. In all his works we see genuine love for truth, great kindliness, unaffected simplicity, moderation, and precision. As a man of business he has been enlarged by his scientific pursuits, while as a studert he has by his aclive participa. tion in affairs been saved from sinking into the pedant; the dilctante he could never have become.

## MONTE CARLO.

It is impossible that evils su gigantic ai: the gaming establishments at Alonte Carlo should long outlive the chnrus of reprobation they have aroused. I am reluctant they should expire without having bilted a finger to aid in their subversal. Europe in the last century was studded with gambling
aesorts. Apart from the public gamiog tables at Baden, resorts. Apart from the public gaming tables at Baden, Homburg, or elsewhere, there was scarcely a watering place,
or a place of summer resort like Grenoble or Aix, where a or a place of summer resort like Grenoble or Aix, where a man burdened whth loose cash might not find a congrenation of gamblers and sheraliers dimdustrie ready to ease him of it. Slowly public opipion has put down public gamblirg $2 s$
immoral, and now Munte Carlo is a soltary representative immoral, and now Mente Carlo is a sohtary representaive of one of the most mischievous of human institutions.
Gorged with the spoils of its predecessors, it stands a moral pest-house. In the midst of the loveliest scenery Europe can boast, on the chief health resort of the South, it remains a centre of contagion. Seventeen million francs it anaually draws frum tis vicimus, which means, according to calculations that cannot be disputed, that between $(20.000$, 00 and $\{j 0, \infty \infty, \infty$, are annual! $y$ won and lost at the tables. The difficulty seems to be how to get at the owner. If a princeling were lu maiutain is Europe-and close to such countries as Italy, France, and Switzerland, and practically Spain also-a physical pest-house, a seat of disease whence smallpox or cholera spread to adj sining countries, he would find himself compelied to put his house in order. A collective remonstrance from the poriers would, in such case, b:ing alout an immediate change. If pot, the process described by an Eastero prance as that he would employ to England if he went to war with it might be recommended, and an army of sappers and miners might be sent to tumble the entire principality into the sea.-The Gontleman's Alag$a=$ inte.

## A DEAF MEARER.

In the village of - there is a Presbyterian church, several of whose members are SEotch-Irish. Their views and their practices on the sutject of temperance are not in strict ac. cord whithe notions of their pastor. Some years ago he preached them a ssmorben as the younger brethren described it, upon the habits heavy, as the younkcr brethren described it, upon the habits
of that portion of his fisk who came from the province of Of that portion of his flock who came from the province of
Uister. One in particular, McA But one failing, who occupied a pew al the side of the pulpit, Reas so cleatly hinted at that all ejes were upon him. Eved the minister expected that "Mac's Irish blood would be up." The offendrag broiher was stightly deaf, bat the preacher was so caroest that eved the deaf could hear. But Meaknew how to turn lis infirmity io aceount. The benediction was scaicely ended when he had the pastor by the hand.
Bre gisinger it to the young folk aboul? " ${ }^{\prime \prime}$ " it is dauncing ye ace gicing it to the young folk about " ${ }^{1}$
Brother Whaited som: time before he rentured 2nMor emperance sermon.-Edter \& Dreatry, in Harper's Magsin: for Octiver.

## A LOVESO.ME GRADUAE.

The second Commencement of King's College, in :759, was necessanily private, only one sudest being admitted to the degree of Hitchelor of Arts. How lonesome Epenelus Townsend mast have been!
In the records of the College are some quaint remarks abont certann ol his companeons who beyan therr coilege life with him, but aftermards ieft him in the lurch. Of one it is said that "in his third year he went to Philadelphia College"; of ancther, that "about the middle of his second year he went into the army". of anoiher, that he, "afte: three
ycars, went into merchandise"; of another, that "after about two years he went prisatecriog"; and of another, that " after three years te went to nothiog."一fo3n Maciled. ler, in Hardar's Alagrainc for Ocfiter.

## GENIUS AND LONGEVITY.

Did not Lotd Roselery go rather 200 far when he said "that genius, 252 rule, made quick work with life?" "Of
the world's greatest poets, for instance, how wany have died the woild's greatest pacts, for instance, how many have died
young? Buras and 35800 20d Keals 2nd Shelley and Schilyoung? Baros and Byroo 20d Keats and Shelley and Schil-
ler, are all cases in puint ; but as a rule we do not find that ler, are all cases in print; but as a rule we do not find that
they crowded 2 liftime into 2 fer: brir! years, and then humed of from an uncongedial sphere. .Eschplas was sixty :ioe years old when he died, Euripides serenty-three, and Saphocles cights-aine. Vurgil survived his half-century by one year, and Horace, though also bora in a short-liredare died at fifte-seres. Dante did not die, in spite of all his roables, till he was fiftr-six, and Shakespeare at his death tas inft-wo gears old. Of the other names that necur to us, Chazece lived fill he reas seventy-ifo, Milten sixty-six, Voltaire died at cirhts-four, Calderon at cighty-six, Goethe at eighly-lhree, and Wordsworth at eighty. No doubt mang to whem the gods give genius die as yoang as thase whom the gods love; but in face of this array of greybearded menius Lind Reseberg's role fas mach 200 absilutc.-Pall Xhall Gazett:
Tur oldest and largest tree io the world, so far as known is a chestant near hic loot of Meant, Etbr It is bollowio and lig ctoong to admit two carriages frivity 2 breast
through it. The circemference of the mat. rank it 212 through it. The circumference of the moal. ronk is 212
fech The Grizly Gizot, movarch of the Man measares nidety-two foct.

## GARDEN AND ORCHARD.

## CHOICE HOLLAND BULBS.

## cultivation of the hyacinth.

In Pors.-This is the most approved method of cultivating the hyacinth in-doors. The soil used should consist of one-third each saud, vegetable mould and rich loam. Five-inch pots are the proper size for one bulb, but in a seven-inch pot three bulbs may be placed to advantage. Have the soil in the pots firm, and the bulbs set so that the tops will bo barely covered. After plauting, water them freely, so as to inubed the bulbs firmly within the soil. Allow them to remain in this condition for one or troo days, then imbed the pots in earth, so as to preserve the moisture, and then place in the cellar or other cool, dry place, not exposed to the light ; leave them in this condition for about sis weeks, then gradually bring them to the light, and finally to the place where they are destined to bloom.
In Glasses.-Nothing is more easily gromn or more fragrant, or that will more richly reward the cultivator of llowere, than the hyacinth for pots and glasses. Tho named varieties ere the most desirable. For glasses the single ones are preferred, although some of the double ones are equally as good. Coloured glasses are best, as the roots naturally shun the light. Use clean glasses filled with water. A fow small pieces of charcoal placed in each will heep tho mater pure for a long time. The base of the bulb should barely touch the water. Set the glasses away in a dark, cool cellar, or frost-proof closet, for from tweuty to thirty days, or until the roots have grown to the length of four or five inches. This is esseutial to the production of fine flower spikes. Then remove to a room of moderate temperature. Keep near the light as the leaves unfold, avoid ing strong sunshine and dry, scorching air. As the water evaporates, keep tho glasses filled with water of the same temperature as that of the room. A teaspounful of guano-mater once a week poured into the glasses, after the flowers begin to appear, will increase the size and beanty of the bloom. After blooming, piuch off tho flowerstoms, and plant the bulbs out of duors, where they may remain till the foliage decays. They will not succeed in water the second year, but may be planted in the border in the Fall.

Is Beds-Hyacinths may be plauted in the border from the midale of September to the first of November. If the soil is stifinand clayey; dress with sand and well rotted manure, digging deep and mixing thoroughly. Plant in lines cight to ten inches apart. When the leares become yellow, tho bulbs mas be taken up, dried, and packed away until required for glanting again in Autumn.

## cructs.

A universal farourite, and one of tho very earliest ornaments of the flower garden. They should be planted in October or Norember. Set the bulbs three inches anart, and corer with more than tro inches of earth. Before winter scts in cover the bed with a little stram, coarse manure, or other litter, to present the bulbs being thrown out by the frost. The crocus will fower well in tho house in winter-half a dozeu or more in a pot or in baskets of mose, or in any other way that good taste may suggest Tho bulbs may bo BCt 50 close as almost to touch each other. For pot culture the named varieties are atrougly recommended, tho dowers produced being larger and more purfect. The mixed crocus aro excel. lent for beddius.
cromi mpenille
This fower, which beleng3 to tho Fritillara tribe, is cacecediag'y lanadsume, and sluuid be an inlabitant of eall gardens. Looks remarkably
woll planted at intervals of two feet in a bed of tulips, rolieving the bed from a low lovel, which is sometimes monotouous. Grows very easily, but requires abuadnuce of saud. Forme an oxcollent background for more dwarf-growing bulbs.


Double hiachath.

cruccs.

crown imperlal.

## fo mROTECT FRITT TREES FROM R.4BRITS.

To Mr. A. S. Barnard and all others who nso tho tedious mathod of bandaging or manping trees, I would sas, try tho following: Take one peck unslabed lime, slako and oudd one gallon soft lye soap, reduco to consistency of corcmon whitowash, and apply to tree with a mop or old paint brush. I know tho above to bo a sare prorentativo beades being the most healthful thing that can bo applicd to the tree-D. C. P., Silloin, Ey.

## THE BORER PEST.

There seems to be a good deal of ignorance or neglect among farmers and oven among orchardists in regard to the borer. He is a very destructive insect, and, if neglected, will in $\Omega$ fow yoars destroy an apple or quince orchard. We have not found that it does much harm to pear trees, for it prefers the apple, quince or thorn, and does not seem to attack the pear very freely. If taken in time it is vory littlo work to destroy this boror, but, if left until hio has had time to work deeply into the rood, it is naother thing. One must be careful and go over the trees tro or threo times ench senson to be sure that nove are allowed to enter and remain there. The borer may easily be detected by the reddish castings left behind him. We use a knife and mire, though a tough twig will auswer. If taken early only a knifo is necessary. Let no one neglect this important matter who has an orchard that he wishes to preserve, and if he has one that ho does not care enough about to protect it, it is better to dig the trees up by the roots than to leave them to breed insects. The Cuuntry Gentleman has the following oscollent suggestions on this subject:-
The apple-tree borer, better known as the round-headed borer, in its perfect state, is a beetle three-fourths of an inch long, with two broad whitish stripes running tho whole length of its back, with rather long and curved horn-like antenure This beetle lays its eggs in the bark of the tree near the ground early in summer, and on till mid-summer. These soon hatch, and tho young larve begin to gnaw their way invards, cutting gradually into the solid rood. They are but three years in reaching maturity, when they come out in the form of the beetlo already described. They are casily reached and hilled by clearing away the openings of the holes with the point of a linife, and then punching them with a flexible wire or small twig. The operator lnows when ho reaches them by the peculiar tonch. It is better to examine the trees often enough to fiud the larve when they are young, and before they have penctrated far moto the solid wood.

A partinl remedy for preventing the laying of the eggs is coating the bark from the ground well up with soft soup, or soap mado as soft as thick paint, with waching soda and water. If applied in fair weather it becomes dry, and will not so soon wash off. It may be apylied two or three times from the first to the end of June. This insect attacks the pear, quance, mountain ash and thorn. The flat-beaded borer is half an inch long, more or less, of a shining greenish black colour. It is very common in the Western and South-western States, and is also found far north. It attacks the trunk of the trees from the ground 'pp to the limes, and lays its eggs at the south late in Mas, and in Caunda in June and July. Tle eggs soon hatch, and the worms bore through the bark into the sap-rood. It is mach shorter-lived than the round-headed borer. Sickly trees are more liable to its attacks than strong and healthy ones. The larrie are casily found by using tho knife, and are destroycd; aud the eggs may be mostly exeluded with the soap and soda wash already mentioned. This insect attactis the oak, soft-maple and everal other trees.

Tue best ray to combat the blackberry blight is to plant a now patch every tro or threo jears on a new spot. When tho old bashes nre destroyed, burn them.

Rocket larkapars and pansies, if sown notr, will gire a more salisfactory return of Iowers noxt year than thoy will if somn in tho Syring. Tho panses may bo transplauted when an inch lugh, bat tho larkspurs should roman whero thay aro sown.

## BLACKBERRIES.

In field cultivation the blackberry is set in rows, about oight feet apart and threo to four fect apart in the rows. If thay are properly phanted the now shoots frem tho roots will legin to show themsolves in $\Omega$ very few weeks. Two or three only of these are allowed to grow the first year, and the ground ought to be kept free from weeds end frequently stirreci. It is recommended to pinch of the terminal shoot of each plant when it has grown to a height of about threo feet. That causes the phant to throw out side shoots and form a bueky top. There will be no fruit the first year, but the second year the provious year's growth of wood will bear fruit and then die. Therefore as soon as the fruit is gatheres. the wood which bore it should bo cut away, that the new growth of wood may have plenty of room. If the system of pinching off the torminal shoot of the plant, as above recommended, is not followed, the stalk will grow tall and slim. Some permit this; but, if it is permitted, the stock should have some support, or it may be blown over by the wind. The system recommended, however, is the one by which the most fruit can be produced. In the cultivation of the blackberry, we must always romember that it is a rank feeder. The ground must, therefore, bo very rich, and no crop will give a better return for the application of good mauure. - Hestern Rural.

## How to Mane a wine fevce.

A durable wire feuce can be mado by planting straight-growing trees a rod or so apart and put. ting wires on them by means of staples after they have grown several years. Lombardy poplars are good for this purpose, as they are straight and rapid growers. They are not especially desirable trees, however, as they are easily broken by ice and wind, and in many of the Northern States they are not loug-lived. Thero could be no objection to using apple or pear trees for this purpose, if one is pressed for room. As the trees would be in an isolated row there could be but littlo trouble from their being too ciose together. Jf apple trees be selected for such a purpose the more upright growing varieties should be selected. Pear trees would answer the purposo best. On smaill places where a permanent fence is required, frnit trees could in this manner beturned to donble account. -Rural Wurld.

After the strawberry piants supply fou with delicious fruit all the season, don't think they can shift for themselves the balance of the year. Remore all mulch and weeds and stir the soil. The plants now need stimulamts, and good rich composted manures are just tho thing.

Poraroes should not be allowed to remnin in the ground long after the tops of the rines are dead. Dig and haul to barn or cellar floor. In two or threo weeks assort and store in a dark, cool cellar. All tho cut, bruised and mormenten potatoos and any that show the least sign of decay, should be discarded. They will not keer.

A cate English horticulturist sass that after trying all sorts of plaus he was thoronghly convinced that thero is nothing equal to tho little. and-often kystem of praning, or rather pinching. The soft young shoots can be readily remered by tho finger and thumb, which is tho easiest way. To which wo may add that any orwer who is really interested in his garden will be likely to pass among his trecs and shrubs gnite often, and if he sees any want or defect he will at ouce supply or remore it With this riev a well known cultirator remarked that his scason for praning ras all tho season through.

RURAL GLEANIVGS FROM EXCHAVGLS
Mr. R. S. Paue, lot 3, con. 9, Minden, recently ent onts which stood six feet, ume and a half inches. They are of the Norway black variety, and have very long heads filled with good sold onts.
Last Fuday morning Mr. W. Jones, Bowman ville, found his best horso strangled in the stable, having got the rope with which howas tied around his neck fastened between his hind foot and the sloe. Farmers, take warning. - Lowmanrille Statesmun.
A fammer who mored from nemr Orillia to Manitoba last spring, $L$,d the forelhought to pack in his trunis a number of small willow slips, which are growing well, and will possoss a value out there hardly to be appreciated in this: welltimbered province.

Dr. Pyse, of Toronto, has disposed of his farm on the 4 th concession of Morris, to Robert McMruray, of Goderich Township. The prico paid was 88,000 . The farm contains 130 acres, and has good buildings and is in gool condition, having beeu looked after by Alex. Stewart, for Dr. Pyne.

Mr. W. Foley, near Maple Grove, has a heavily laten crab apple tree with one branch in blossom. He could not get any person to pick the blossoms on account of an old superstitions belief that the person who pick these second blossoms will dic within a month afterwards.Urillia Times.
Mr. Jous Yoelker, of the 19 th concession of Hay, has sold his young bull calf, "Huron Duke," to Mr. Peter Kehler, who lives near Zurich, for the sum of $\$ 100$. This calf is seven months old, and obtained first prize. at Zurich farr on the 19th iust. Mr. Voclher is'to be congratulated ou his success as a breeder of Durhams.
Tue Messrs Moore, who reside a mile and a half east of Stafin, threshed on the farm of Mr. James Neal, lot 10. concessiou 7, Hibbert, on the 17 thi inst., one thousand bushels of grain in one day. About half of this grain was wheat and the remainder onts, peas and barley. If any person con beat this they should speni, out ada not keep their light hid under a bushel.
Lasi week says the Omenee Herald, Mr. Wm. Gardiner cat and bouml for Mr. Wm. Clarke in five hours, ten acres of oats 'tho machine used was a Chatbam self.binder, which dia its work in first-class style. The crop of the ten acres was threshed in about two hours by Mr. Jos. Irwin and his steam thresher. The yield was 400 bushels. Cutting, hiuding and threshing ton acres of onts in soven hours is prettr quick mork.
Tre Kingston Thio, says:-"Mr. Jnmes Atkiuson. Gti con., Pitteburg, in givivg up grainraising for stock-raising need not regret the change of business, as the following transactions in stock sales for the present season will shom: Last Tharsday he sold a Percheron colt, fifteeu months nld, for $\$ 150$; and a span of Frontenac horses, five years old, for $\$ 400$ to am American gentleman. Last'spring ho sold to Mr. Webb, of Sunburs, a spanofblack maniched celts for $\leqslant 260$. Abont two months ago he received from Mr. W. Harkness. Kingston, $\$ 150$ for some horncà cattle, and has trien as many nearl: ready for the shambles nor. His interest in the dairy busimes, added to his stock sales, will make his income from stock more than $\$ 1,500$. A fact not generally known is that on stock farms excellent fields of whent can still bo raised regardless of unfarourable weather, so that indications aro in favour of the farmer who goes extensively into tho cattle

## CREAM

"Tur: Intest saying of Josh Billings runs "Next to a clear conscience for solid comfort cums an old shu."
Hamp on Joxes-(Jones, who is in bad health, lut improving, returns home.) The wife of his buom-"Weel, an' hoo' ye noo ?" Jones-" Better. In fac", I feel yuite like anither man." Wife-"Am gled tae hear't. I wis getting tired o' the aul' yin." [Jones continues to improve].-Builie.
"Docron, I want to thank you for your great patent medicine." "It helped you, did it !" asked the doctor, very much pleased. " It helped me wonderfully." "How many bottles did you find it necessary to take?" "Oh : I didn't take any of it. My uncle took one bottle, and I an his sole heir."
The Danger of Interfering.-(SceneFarmers' dinner; tables well filled). Chair-man-"Mr. Thamson, please tae say grace." (Mr. Thamson, with bent head, commences to whisper to himself). Farmer next him"Speak oot, Thamson!" Mr. Thamson"Shut up! I'm no speakin' tae you."-Bailie.
"Sis," said a bright Austin youth to his sister, who was putting the finishing touches on her coiffure, " you ought to marry a burglar." "What do you mean by such nonsense?" "I mean that you and a burglar would get along very well together-you have got the false locks and he has got the false keys."
A large, handsume woman,elegantly dressed, with plenty of jewellry, recently entered a Cleveland hurse car where every seat was occupied. No one moved, till, at length, an elderly gentleman slowly rose and offered her his seat. She took it deliberately, with an an air, and then said, sternly: "You are a gentleman-a perfect gentleman. The rest is hogs!"

## A SIVARM OF BEES.

## B patient, B prayerinl, 13 humble, $B$ mild

B wise ns a Solon, 1 rocek as a child
B studions, $B$ thoughtful, B loring, is kiad
$B$ suro you make matter subservient to mind.
$B$ cautions, 1 pradent, $B$ trustinl, is true
13 courtions to all men, bo friendiy with fors.
13 temperato in argument, pleasuri, and wide.
3 ca at of conduct. of mones, of time,
3 ca cat ol B cratr ful, B hopefui, 3 firm


$B$ courafions, B gente, B hiveral, B jast,
$B$ aspiriug,, humble, becasse hion art dust;
13 penitent. circumspect, round in tho fri
${ }_{3} 13$ honest. $B$ holy, tranuparant, and paro
13 dependent, 13 Christ-hle, and youll B secare
Ax Ayrshire farmer who had been out in the late hoistercus weather and got himself very wet went into a public-house in a country village and ordered a glass of whisky. After taking off the contents neat without an effort he said, "Man, that whusky's uncommon milh; it's a wee like mysel'; I think it's been oot in the rain!"

He was a young lawyer, and was delivering his maiden speech. Like most young lawyers he was florid, rhetorical, scattering, and verbese. For four weary hours he talked at the court. Jthe iury, until evergbody felt like lynching himis. ....inhe got through, his opponent, Mr. Poland, arose, looked sweetly at the judge, and said: "Mrlud, I will follow the example of my learned friend who has just finisheo, and submit the case rithout argument." Then he sat down, and the silence was oppressive.

## BEES AND POULTRY.

## SWARMING BEES.

Sometimes tro surarms issue at the same time, if you have many colonios, aud thoy are likely to cluster together. If you are well posted in the signs of smarming you can generally prevent two at one time, by knowing which are ready to swarm; aud if two are in a fuss, bees rumuing about, \&c., sprinkle the bees outside with water and in they go out of the expected rain, your other swarm issues and is secured before number ono gets over the fright (about thirty minutes) and ready again to start, but then you are ready for them. Look at your boxes of those ready to swarm and if the bees are qutet they will not swarm at once aud you hare time to secure one or wore swarme that may be out before them, and when the latter come out if they seem inchned to join those already hived, throw some covermg over the hive (table cover, sheet, sc., ) to prevent them; but two or more swarms will clustor together and do quietly if hived together.
separation of straras.
Lay a sheet, ic., on the grouud, shake the bees on the imiddle of it and puta live on each side of them, and if an undue proportion are going to one, put that one further off, drive them in fast, and the chances are you get a queen in each hive and then put the hives say trenty-five feet apart, thon if each hes a queen tho bees are quiet, and you areall right, if not the queenless bees are soon running wildly around, and not finding the queen soon go to the other hive where she likely is. To aroid this put tho hive without a queen aside, tarn the others out again on the sheet and let them return to their hive, watching closely for the queens and put one of the tro in the queenless hive, but if she cannot be found the bees will do just as well togother in one common-sized hive, but bosee will have to be put on at once and changed as soon as full.

## home agans.

If a smarm returns to its old hive it is likely because the queen is too heavily egg laden or her riugs are not perfect, and they may do this three or four times, and if careful you may often find the queen outside, at swarming, but unable to fly; so gou must put her in a quien-cage, get the empty hive and a cloth and a bottom board. Lay the later doma a short distanco from the old hive (a yard or tro) and when the swarm returns remove the oll hive to the board and cover it with the cloth, then put the empty hive on the old stand, and put the queen in it and in a short. time the swarm will enter, and can be removed to their futuro home and the old hive replaced ou the stand.

## aften swamis.

Are those that issue after the first and are called secoud, third, dic., and in a good season if the first swarm is not prevented by bad weather the first young queen leares the cell in seren or eight days after, and will go out with the second smarm in say tro days after. The morning of that day, listen closely for a short time close to the hive and you will hear a "peep," "peop," "peep," a piping note giveo rapidly soveral tina $"$ and theu silence, and ron may hear more than one, one sharp and long, the other thick and short.
no after swansis.
An adranced practico is to permit ouly the first sfarm, in this wry ; hivo the first swarm when it is ready, aud one day after open the 'old hire aud cut ont the queen cells, smoke tuo bees and gire them a laying queen, and after a fow days sco if she has been well reccived, and if so, and you have cat out all the queen colls, strarming is done in that hive for that season.

## introduoina a quefn.

Bo suro first that tho hive is perfectly without quecus or queon cells. Second-smoke the bees so that thoy will fill thomselves with honey. Third-give the queen the same scent as the hivo she is going to, either by making or putting on her honey from that hive. Fourth-put hor in quietly so she may not meet with opposition. Now remove the old queen, rub the honey on the new queen (smoke tho bees woll first) placo her botreen the frames at the top (in the daytime if honey is coming in froely but at night if it is scarce, ) and sho will probably bo taken good care of, but you must look later on to see if all is right. Some make a cage and close the open end with comb or muslin and put the in and the bees bite away the stoppers and releaso her. If you want tu change black bees to Italians, simply rumove the black queen and introduce the Italian, and in treuty-oue days the young Italians are appearing and tho blachs disappear in sis or eight weols, in a good season.

## A CILAPTER ON POULTRY.

polands.
Under this head wo gather all the varieties having a prominent crest or feather tuft on top of the head, springing from a lump on the shull; and the size of this nob is in proportion to the crest, forming a good test, in carly life of the chick, as to which will hare the finest top-knot.
The varieties are white crested black, white crested white, black crested whte, silvor spangled, golden spangled, sultans, buff or chamois, and bluc, grey, cuckoo, and ptarmigan are sometimes scon.
white crested black.
Are the most common; the whole plumage is black except the head crest, which is all white when perfect, but thero aro always some black feathers in the frout of $i$, but the ferrer the better. The crest should be round, full and regular, covoring the eyes, nud for this reason the birds should not be frightoned or taken up quickly, as they have been known to die of fright. And as the lnob under the crest contans a large portion of their brain, they are much affected, and die rapidly if much oxposed to rain. All the Polands have crect, bold and graceful carriage, the neck melined back. Their bodies are round, plump and short, legs black or pale blue, and short, wattles bright red, car lobs pure white, and the birds weigh from four to five pounds for the hen, to five and six pounds for the cock. You can scarcely see the comb but its shape is peculiar, being known as tro horned, shaped something like an irregular letter $V$. The second variety is not now known but was said to be the largest, handsomest and best of all. The third variety is like the first, but has a "beard" under tho chin instead of mattles, they aro also much unrdier, larger and finer sud good layers. Their plumage is white all over.

## silver spangled.

The main colour of these is silvery white, spangled with quarter circles of black. Tho cock's huckles are white, edged and tipped with Whath, nud dark tails; reight sia to seven and anebalf pounds, hens four to five and one-half poands. In the hen the hackles have a spangle at the end, and her tail is clear white, onds spangled, and in both sexes the spangles should form a bar across the wings, and the breast, bo regularly spaugled. The crest should be black at tip and base, white beimeon, and full and reguiar to tho centre, car lobes whito and small, not'any wattles.

Birds of this varicty are sometimes shown with laced feathers (a black edging with thick tips) and fiom these eprang tho famous Sebright Bantams.

Golden spangled aro liko tho former, excopt that their grouned colour'is goldon, but the black marks aro the same. The cook's tailis doop roddish, sicklos black tipped, and sido foathors edged with same; these also throw "laced" birds, very beautiful and popular.

Buff aro like the goldon, but the spaugles are whito, and they are bonatiful also.
Sultans aro small, tamo, lively, are pure white, all over, legs very short and feathered to the toes, thighs thickly feathered and vulture hooked, they are also heavily ruffed and beard at the throat, and the cock has a vory full sweeping tail ; the crest is more erect than the othor varioties, and the comb is simply two short spikes in front of crest, the legs aro white, and hare the fifth too like the Dorking. They are said to be hardy and suited to confinement, and all the Pulands have one advantage to a fancier that they suffer littlo from oxhibition. Polish chiclis feathor rapidly and suffer much at the time, require plenty of stimulating food, and must bo leept dry ; the hens are goad layers, the flosh is very good, and the birds make ready pets ; the hens are non-sotters. Polands are very subject to roup, the white crested black more so than any, but they are very handsomo birds.

## Dorenges.

Tho common varictics are coloured, whito and silver groy, of which the white is said to be the foundation stock of tho others. Their bodies should bo deep and full, the breast plump and carried formard, back and breast broad, and the whole form compact and neat; the cock should weigh not less than ten pounds or hon oight and one-half, though some run higher (cocks over fourteen pounds) but the white variety weighs less. The legs are white, and the foot must have a fifth toe behind; the comb either single or donble in coloured varieties, but if single, it must be large, and quite erect in the cock.
Greys-tho cock's breast may bo black or mottled with white, tho hackle, back, !and saddle are commonly white, partly striped black, and wings nearly white with clear black bar.

Silver greys--their colour must be strictly marked; cock's breast a puro black; back, head, saddle and hackle feathers pure silver white, wings also white with strong black bar across, tail black. Hen's breast salmon colour, running to grey at the thighs, neck and head silvor white with black stripes, back and wings silver grey, tail dark groy, blackish inside, and the geveral carriage very neat and stylish, in both sexes.

White-should bo perfectly puro whito all over, though the cocks have a tendency to yellowish colour on wings and back, the comb should be rose or double, broad at the beak, and rising to a point behind, and not dropping in the centre.

The Dorkings are thought to be the best tsble fowla known except game, not ouly plenty of neat but good quality, and in the best parts, breast, sc., and they are easily fattened. The hens are good sctters and mothers and brood the chicks a long time, but they are not good layers (after a jear old,) they do not bear confinement well; the clicks are delicate and hard to rear, but on a wide, dry range they prove a profitablo market fowl. They are very subject to a diseaso (peculiar to them) called "bumblo foot," sn abscess on the foot for which there is no known remedy, except to let it mature and remove by the knife, and oven then three birds out of five dic. Dorkings aro not common in America, as their eggs fail to hatch so often that breeders (to protect themselve from the often too ready aceneations of unfair dealing) do not care to sell them or breed the forls, and some years ngo wothad much troublo in secaring a trio of silver grey Dorkings to fill an ordor. Thoy cost one dollar in England.

## IISAPPOLNTED BEES.

In the enrly part of the season the prospects were bright for a largo yield of honey this year in this vicinity. All the blossoms of the rose family were vory abumdant and well filled with nectar. The best honey is mado from baservood, and the bees did well in this. The season up to tho middle of June bad been very encouraging, and the bees had made extravagant arrangements for their season's work. They bad built comb and made cells for bees and queens in the most reckless manner, evidently anticipating a season of unusual productiveness in saccharine matter. During June and July so rapilly did thoy swarm that it was almost impossiblo for apiarists to provido hives for tho coloniste as fast as they came out. Their awarming was even extended into August, notwithstanding that queens were killed and measures resorted to to check the great production of bees.
In counection with this circumstance Mr. T. L. Babcock, of this county, reports a remarkable discovery. He bad destroyed all the queen cells in one of his hives, but on examining the same somo time afterward found queens in cells that had been originally prepared for neutors. He is positive of this, and also that the eggs had been laid in these cells for neuters. He now thinks that the sex depends not upon the egg, but upon the cell formation.
The bees worked vigourously on the early flowers, the composites, roses, lindens, buttercups and so forth, all being rich in sweetness. In June, when the white clover came, from which the second best honoy is made, rains became more frequent, and they continued until late in July. When the drought began, the clover, had passed aray Buclweent. and golden rod followed but the drought worked as disastrously as the too frequent rains, and the bees could get listle honey from theso plants. The drought continued into September, and as a consequence the bees have bad littlo to work on since June
"They'se done nothin' but loaf around the hives or fight an' rob their neighbours for the past tro months," remarked an old bee-raiser. "And they're as ugly and hateful as all tarnation. We dassent touch a slip to take out any honcy, canse the robbers'll be out in a jiffy, and they'll fight and kill each other by the hundred. Do you see that little critter there buzzin' round that hive? Well, that's an Ytalian, and ho's a robber. And there comes a Cyprian bee, too. Both mean mischief. They can whip the native bee auy time in a fair staud-up fight. They're coustantly robbin' tho mativo bee, but a good many get killed for their pains.
"Why are they robbin' of each other? It's 'cause they've nothin' else to do. When flowers is plenty you don't see much of sich work. Then they're hummin' and singin' ronnd as happy and contented as an oystor, but now the deuce's to pay with 'cm. Take that, will you!" and the man struck dorrn a Cyprian that was buzzing and dipping around in front of a hive and threateving to euter at the first opportunity.
"There's a weak srarm in that there hive that I guess Ill have to stick a match under to save it. Queer, ain't it? Killin' 'em to savo 'em ! But it's got to bo did. 'Tron't pry to keep'em and feed 'em fifteen or trenty pounds of honey this winter, and then mebbe not pull 'ens througis to spring. There's several sich colonies. They swarmed lato, and some on 'em lhaven't made a pound of honey since. They mado a mighty poor beginnin' in the world and might better nover sot up housekecpin' on their oma hook at all."-Deckertorm (N. . . .) Correspondent of the New York Tribure.

## FOR NEXT YEAR.

Farmers genorally give too little attention to selecting their breeding stock of poultry $A$ flock of the best pure-bred fowls, if selection is neglected, will soon degewernte into a lot of scrubs. No wonder thon that the flocks on so many farms have run out. The choice early hatohed pullots and the plumpest, smoothest cockerels bring the best price in market. But does it pay to saurifico them in this way for a few dollars? We think not. Much depends on feed, and a great deal on the breed, but neither will transform scrabs into profitable fowls.
Therefore, we urge upon our renders to see to it that the best of their flocks are saved for nest scason's ube.
For the majority of farmers we advise the use of pure-bred males for crossing on the best pullets of their flocks. The first cross is in many cases superiur for practical purposes to the pure stock. The extra cost of two or three cockerels in the fall is vory little compared with the benefit derived from thoir use in a singlo season.
In the large breeds males above the average size are not desirable; a vigorous active bird of medium size is always to be preferred. Size may take the premium at the fair, but it don't count so much in the farmer's yard.
Males of the large breed should never be mated with Leghorn or Hamburg hens, or with any small females. If your hens are amall and you wish to increase the size of your chickens, do it gradually by first matiug them with a small Plymouth Rock cockerel, and nest season you can use a big Brahma or Cochin. If your fomls are too big you can easily get them smaller by the use of Leghorn or Hamburg males.

In the selection of breeding stock for raising market poultry, particular attention should be given plumpuess and smoothness of form. Long, "slab-sided" fowls, no matter how heary, are not wauted in market, except at low prices.
In selecting a flock for laying purposes chiefly, rounduess of form is not so important, and not even desirable. For as a rule, a loug slender body, neck and shanks, combined with a large comb, indicates good laying qualties.

Those who mako market egge a specialty will do well to select the best pullets of the later broods, as well as some of the earlice ones, for the former will continue to lay later in the summer than the early hatched. In this way a continuous supply can be kept up.

## the harketing of honey.

The Indiana Farmer gives the following timely hints ou the above subject: Ono might infer by the haste with which some of our friends rush into the market with their honey that it was a perishable article, or that it was a matter of life or death that their honey shonld be disposed of at once. Many again have an idea that by gettivg in a little ahead of their neighbour they will secure better prices and quicker sales. While the facts in the case are directly the reverse. But very little honey is consumed until the cool weather comes. Customers will buy a taste of wew hongy aud there they stop, and are eatisfied until the berry, fruit aud vegetable crops are out of the way. Then we may expect a good sale for our honey.
For the most satisfactory results in disposing of our honey crop, the home market should first be taken into consideration, especially when the crop to bo disposed of is not very large. Honoy, like all other commoditics, loses in the price to the producer, tho farther from home it goes to find a conswome. Large arops, of coarse, must seok large markets. At present wo are consider-
ing only those who have a fow hundrod pounds to dispose of. There is scarcely a family in the land but can be induced to purchase a fer pounds of hovey, if offered to thom in the right manner.
Our people are largo consumers of sweots. The adulteration of syrup has boen carried to such an extent that they lave become diggusted and nausoated with them, and are in searoh of something to till the want, and now is the time for beo-keepers to take action and offer to the people the products of our apiaries. Pure honoy is about the ouly pure sreet now obtainable. As to just what shape in which the honey shall bo offered depends entirely on the kind of trade you wish to supply. To home consumers, extracted honey in fruit jars, tin buckets or cans holding from three to thirty pounds, seom to give best satisfaction, but for fancy grocors' trade, the one half pound, one and two-pound glass jars suit the best. Each preliage, let it be what it may, should bear the producer's name. People of to day rely much more on brands and producers' names than many suppose, or than was formerly the case, when adulteration was so little practiced.
Comb honey is marketable only in sec'ions, the one-pounds fiuding proference in our larger markets. These should be packed in neat shippingcases, holding about twenty pounds each, as such tind quicker sales and are less liable to be damaged in bandling.

## MELTING OUT BEESWAX.

A lady correspondent in the lacitic Rural Press gives her experience in melting out beceswax as follows: I will not say who of our family can make the most muss while melting out wax, but even the worst one can not make much muss in my way of melting; but by the boiling out process there is too much chance for it. I have tried both ways, and know of what I say. I take the pieces of comb and press them together in as small a compass as possible, without too much trouble; then put it into the large dripper that fills the oven, or into two small ones if preferred. Make a good fire and put the pans in the oven; in a very short timo it will be all melted. Then have a dish ready, also a hoop covered with house lining, and pour the melted comb into the dish through the cloth. Then fill up the pan, set it breck into the oven, and take the imprompta strainer, from which all the wax will havo dropped by this time, and cmpty the refuse into the stove to make fire for melting out more wax. The was, in that way, is pure and clean, and mach whiter than when boiled, because the water takes out the dirt and colouring matter in the comb and mixes it with the wax; and in this may I can do it much fastor and with much less wood, which is quite an item in some places. Try it and see if it is not the best way.

## A TMMELY POINT.

To fatten young poultry they must be cooped up in a clean, airy, but shaded coop set up some distance from the floor or ground. The coop must have a slated bottom so as to allow tho droppings to fall through and bo removed or covered with dry loam. Feed regularly as often as three or four times a day, as the birds will eat up clean. In a week they will do to kill and send to market.

Yonug chickens aro rery often lost in the grass when at liberty, and are frequently wet and chilled. Houce, to successfully raise a large number oi chickens by hand, various means must be provided by which those of different ages can be separated, and by which the chickens can bo protected and at the same time havo snfficient liberty for cxercise and development in tine open air.

## HOME CIRCXE.

## MAPSAND MATRIMONY.

Everybody at Brunswick know the old Eagle Tavern. Squire Copente had kept it in the old times, nad when ho was gathered to his fathers, his daughter Ann Jomima suceceded to the lieys of the cellar.

The railway trains now whistled at the rear, where, once upou a time, the melodions stagehorn bad sounded, and still the Engle Thvern maintrined its reputo for the juciest steaks and the most tootheome apple-tarts in the country.

Mr. Mapton was sitting on the porch enjoying the prospect of $a$ dusty cross road and two halfdead willow trees when Benainh Phillips drove up to the step.
"Guess you're the gentleman I want to see," said he, after a curious stare at the stranger.

Mr. Mapton rose promptly up.
"You're from Brunswick C'entro?" said he.
"Exactly!" said Benaiah.
"Yes," said Mapton. "Just be good enough to wait a few minules until I get my traps together."
Beliainh stared.
"Goin' to fetch them aloug?" said he.
" Wouldn't it save time?" said Mr. Mapton.
"Well, I don't know," said Benaiah. Guess you understand these things better than I do. I'll thank you to be a little lively though, for the down train is due in ten minutes, and wy horso don't take kindly to the cars."
So well did Mr. Mapton lay this hint to heart, that scarcely five minutes had expired before he was seated in the box-maggon on a commodious cushion of buffalo-shins, with a square black box behind him and Benaiah Phillips at his side.
Mr. Mnpton, a short, stont man, with a sandy moustache and pule blue cyes, looked at the landscape. Benaiah Phillips looked at Mr. Mapton.
"A fine country this," said Mr. Mapton.
"Desp'rit lonely though," said Benaiah. "Our gals all have to go outside of Brunswich for their husbands!"
" Indeed ? " said Mr. Mapton.
" linct!" nodded Benaiah.
"You are Mr. Hosea Phillips' son, I supposo?" said Mr. Mapton, after another long silence.
"Ya-as," gaid Benaiah, selecting a particular straw out of the bottom of the wagon to chew. "And Jerushe's his darter."
"Yes?"
"As true's you live! " emphasized Benaiah.
"He is the chairman of the Board of School Trustees, I am given to understand?" interrogated Mr. Maptou.
" He just is," said Denaiah. "There ain't no better family than the Phillipses here, I tell you."
"Glad to hear it, I am sure," said Mr. Mapton, clinging desperately to the rail of the seat, as the wheels went bounce, bounce over the stony road.

He thought they would nerer reach the cozy farm house of Mir. Hoser Phillips, a deop red building, with whito mindow casings, and a row of Lombardy poplars in front of it.
"Here we be!" said Benaiah.
Mr. Mapton climbed laboriously out of the Traggon.

Benaiah cleared the space with one flying leap.
"I'vo fetched him, Jerusha!" said he, as the door opened and a round-faced' sirl appeared, with auburn-red hair, and comploxion to match. and a stify ctarched calico gowi, with a perfect cheraux de trise of flounces.
"Goodness me!" siid Jerusha: I'm all of a flutter 1 How do you do, sir?"
"Ma'sm, I hopo I see you well I" said Mr Mapton, with a cercmonious bow.
"He's a perfect Sir Charles Grandison!" gig-
gled Jorusha, under her breath, adding aloud: "Please to walle in, sir."
And she led the way into the cool dark parlour, where there were green paper shades at tho windows, a stono jar full of asparagus in the fireplace and a plaster boy, with $a$ bow and arrow, on the mantel.
"Is your father at homo ?" asked Mr. Mapton, with mother obeisanco.
"Oh, dear, no!" said Jerusha, reddoning up again. "Sre yoll going to speak to him first?"
"It might perLaps be moro seomly," said Mr. Mapton.
"OL, good gracious !" fluttered Miss Jerusha; " but I haven't told him about-about-"
"Pray do not mention it!" said Mr. Mapton. "I shall have no difficulty in explaining my busincss to him myself."
"Must I call him now?" said Jorusha, lingering with pretty indecision.
"Well, perlinps 'twould be better," answered Mr. Mapton.

And softly closing the door, Miss Jerusha Phillips flew out to the barn, where her father was watering the oxen.
"Pa!" she faltered; " do put on your other cont and come into the parlour."
"Eh?" said Mr. Phillips, a great, red faced, smiling giant, with a stubby, week-old beard, and knuckles like a blacksmith. "Minister hain't come to tea, ias ho ?"
"No; but pa-you see, pa-"
"What's the matter now?" said Mr. Phillips, as Jerusha twisted his coat button nervously around with downcast eses.
"I've been advertising in the paper, pa," confessed Jerusha.
"Advertising!" roared the farmer. "TWhat for ?"
"For-for a husband," almost whispered Jerusha. "And the genteelest gentleman you ever saw has come to answer it. Ho sigued his note M. M.-Maufred Manleverer-and the same initials are on the end of his valise, and he wants to see you at once."
"Well, I declare !" said Mr. Phillips, with a borcan breath of amazement. "The fools ain't all dend yet."
"No. But, pa, please don't discourage him," whispered Jerusha, "because he is very gentlomanly, and all the girls will envy me so. Now, pa, do be reasoneble."
"Me's got to give an all-fired good account of himself," said the farmer," "before I'll let him have $n$ darter of mine!"
"Oh, he'll do that, pa," said Jerusha. "And do mako haste! Benaiah was in the secret. Ee posted my letters, and brought back Manloverer's from the post office. And he wont to the village for me to day ; and I've made him half a dozen new cambric cravats, and mondeã his Sunday gloves to pay for it."

Mr. Mapton, alone in the gloom of the best parlour, thought that the clonirman of the Board of Trustees never would come; and in fact it was some time before Mr. Phillips had-as he expressed it-"" scrubbed himself clean and jumped into his best clothes." And then he made his appearance as majestic as Coriolanus.
"I have the honor of addressing-" said he, slowly.
"Moses Mapton, at your service," said the stranger, rising and bowing.
"Thought my gal said it mas Bulliver," asid Mr. Phillus. "So you want to seo mo, el ? "
"Yes, sir," said MIr. Mapton. "I wish to obtain your good mord for-""
"Oh, you must settle all that with Jerasha," said Mr. Phillips, chuckling.
"Yos, sir, but in ordar to introduce-"
" My gal says that's all sottled a'ready, said the farmor, broadly grinning. "I s'pose you've got good references?"
"The very bost in the state," said Mr. Map. ton, engerly. "I assure you that our syatom
"Eh ?" said Mr. Plillips. "What the dickens are you talking about?"
"Will you allow mo to show you a fow samples," said Mr. Mapton, briskly unlocking tho squaro black box, from which overflowed a fear. ful Niagara of geographecal maps. "Oar roputation in outlines and primary school maps is, I flattor myself, boyoud all attack."
"0.0.0h!" said the farmer, "is that what you come to see about?"
"That is it, sir," said Mr. Mapton. "I am the only acoredited agent of Atlas \& Co., the great school-map publishors. To you, as chairman of the board of trustees -"
"Yes; but," interposed Mr. Phillips, with round eyes of wonder, "I thought-"
"Pa, pa!" whispered the voice of the fair Jerusha, from the other side of the door, "just come here a minute, please." And as the farmer presented his moon-like face in the hall, she whirled around and shut the door coftly. "Pa, don't say another word," she whispered. "It's all a mistake, don't you see? Bonainh's brought the wrong man. Ho's a map-agent, instead of a hero of romance. Oh pa," bursting into tears, "I naver was so disappointed in my lifel"
"And I never was so relieved," said honest Hosea, drawing a long breath. "Never let me catch you playing ns such capers again, Jerusha. No girl erer yet got a decent husband by advertising for him, and it ain't the sort of thing I like. So there now."
And by way of answer, Jorusha only dissolved into fresh tears. Mr. Mapton stayed to supper, and sold one set of his maps to the Brunswick district school ore he went on his way rejoicing. But Miss Jerusha made a very pleasant impression on his mind, and the nest time he came that way he stopped again.

Mr. Manfred Manleverer, it was hardly necessary to say, never put in an appearanco of any sort.
But when the apples in the orchard turned red, Mr. Mapton announced that he was going to give up the edacational publication business.
"It's remunerative," said ho, "but I don't like the iden of being on the rond all the time. I am essentially a domestic man. I want a home. And I've bought Bell's farm, three miles sonth of this. And if Miss Jerusha here will become my wife and go there to take care of it-"
"Dear me-how very sudden!" said Miss Jorasha. "I'm sure I never thought of such a thing."

But she married the map agent after all, and was very happy, although his name was not " Manleverer," and be did not resomble the steelplate evgraving of "Ivanhos" in the Literary Annual.
"But le's a good provider," said Jerusha, "and he says I may havo one silk dress a year. It ain't every husband will do that, now, is it?" -Helen Forrest Graves.

## SUPERSTIIIONS ABOUT CHILDREN.

A superstition used to exist that a child which did not cry whon sprinkled in baptism woula not live long. In the rest of Scotland, according to James Napier, it was considered unlucky to name a child by any namo before the rite of baptism was performed. When children seem prematurely smart it was believed that they would not live long. Shakespearo puts this suparstition into the month of Richard III. Bulpar mentions
the tradition concorning ohildron horn oponhanded, that they will bo liberal and big-hearted. A charnater in one of Dekker's plays says: "I am $n$ most wretched follow; suroly somo lofthanded priest olristened me, I am so unlucks."
According to Irish and Soottish fairy suporstitions, the elvos, though in the main harmless, have the bad roputation of atealing children from the orade and substituting for them changelings who bear resomblance to the stolen infants, but are ugly little creatures and never thrive. On such a thoft of a femalo infant, who is carried to fairylaud, but in the course of years roturns to her paronts, James Hogg founded his fine ballad of "Kilmeny" (Queen's Wake). In some parts of Scotland it is a popular notion among tho lowor classes that when a child is for the first time taken into the open air, the bearer of it should give somothing to eat to the first person mot, otherwise the child will bo unlucky. The gift is called "the bairn's piece." When a child was taken from its mother, and carried outsido the bedroom for the first time after its birth, it was lucky to take it upstairs, and unlucky to take it down-stairs. It was not considered lucky to carry a baby into a neighbour's house until the mother took it herself; and this it was unlucky for even her to do, until she had been to church.
It was considered unlucky for children to walk backwards while going ou au errand. It was deemed unlucky to measure a baby; and if its nails were cut before it was a year old, it would turn out a thief. It was unlucliy for a boy to wear trotisers made on a Friday; and to sweep dust over the feat of the girls would prevent them from getting husbands. In Hiudostan, when a baby sueezes, the mother suaps her thumb and finger, and repeats aloud the name of one of her gods. When a child caste a tooth, in South Sweden, the tooth is thromn into the fire. In Switzerlaud it is carefully wrapped in payor and salt inclosed with it before it is thrown into the fire. In Lerrick's time, it was regarded as a lucky omen to place a kuife uear a sleeping child. Good Friday and Easter Sunday were considered lucky days for chauging the caps of childron.
In the west of Eugland, the fortunes of clildren are believed to be largely regulated by tho day of the week on which they are born:

Monday's child is fair in the face,
Tuesday's child is full of grace,
Wednesday's child is fall of noo,
Tharsday's child has far to go,
Friday's child is loving and giving,
Saturday's child works hard for its living,
And a child that is born on Christmas day
Is fair and wise, grod nnd gay.
Among some of the tribes in Africa, if tro babies come to a family at the samo time, thoy think it an awful thing. .Nobody except the family can go into the tent were they were born, nor use any of the things in it. The tivins are not allowed to play with other children, and tho mother cannot talk to any one outside of the family. This is kept ap for six years. If tho babies live to be sis yoars old, the restrictions aro remored, and they are treated like other children.-Tho Current.

## danger in coukng utensils.

Apart from the dauger which, according to doctore, we zun of being poisoned by uearly every description of food we cat, there is another riss quite as ccrious involved by the consumption of cooked food, however wholesome of itself, which has not yet received the attention it deserves. It is to be feared that a thorough overhauling of kitchen utencils, eren in well-regulated households, would lead to some alarming revelations from a sanitary point of view as to the condition of these articles. Some remarks bearing on this point which may bo of value to those riho are
anxious to preservo lifo and health aro to bo found in the report of the Inland Revenue Laboratory for the past year, just issucd. Spenking of samples received at the Laboratory for analysis from the Admiralty, the report says that specinl attoution appears to have been'directed by that department to the charncter of the enamol linings of cooking utensils. It is well known that most of the enamel contain cousiderable quantities of load and arsenic in condition casily acted on by vegetable acids, and many of the specimens analyzed cousisted of the canmel aud glazo of dishes suspected to contain those metals. The results of the analysis showed the necessity of the examination ; for many of the onamels contained da arous quantitics of lead and arsonic, and pre : that most of the utensils could not be recommended to bo used with safoty, vhile a fow showed 'that it was practicablo to prepare an enamel and glaze free from hurtful substances. The moral to be drawn from these observations is: Look not only to the food you eat, but also to the vessel in which it is cooked.-St. James' Gazetle.

## DON'T DE IN A HURRI.

Don't be in a hurry to answer jes or no ; Nothing's lost by boiug reasonably alow. In a hasty momont you may give consent, And through years of torment leisurely sepont.
If a lover seeks pon to becomo his wif., Happiness or misery may bo yours for lifo; Don't be in a hurry your feclings to confess, But thmk the matter over buforo you answer yes.
Should one nak forgiveness for a grave offeuce, Honest tears betraymg carnest pemtence, lity aud consolo hum and his forra allay. - And don't bo in a burry to drive the cuild aray.

Hurry brings us worrs; ; worre wears us ont.
Easr Easy-yoing peoplo kvois what they ro about. Hecdless haste will bring us surely to the ditch, Aud troable overnhelms us if wo hurry to borich.

Don't bo in a harry to throw yourself awny; Hy the side of windom for a what delay Auke your life worth leving ; wobly act your part; And dun't be in a hurry to sponit it at the start.

Dou't be in a hurry to speak an angry word;
Don't bo in a hurry to spread tio tate son'vo heard. Don't be in a hurry with evil ones to go; sud dua't be in a hurry to answer yes or no.

## FORFEITS.

Ther seut him round the circle far To bow before the pretticest there. I'm bound to say the choies ho mado $A$ creditable taste displayed; Although-I can't say what it meantThe little maid looked ill-content.

His task mas then anew beronTo kuo 1 beforo the rittiot one. Once more that little maid sought he And went down upon his kneo. She bent her eyes upon the floorI think sho thought the game a bore.

Ho circled thon-his smeot behast To kiss the ono he loved the best. For cll sho fromned, for all sho chia, He kissed that little mair, he did. And then-'thoagh why Y' can't docidoThe little maid looked entigfied.

## WOULDN"T AGREE TO "OREY."

Generally epeaking, marriages pass off very smoothly, and frequently with very pretty effects. The brides are credited with a careful study and perusal of the service for meuy days beforehand; sometimes there has been a rehearsal. I havo known brides, when the grooms havo failed to matio the proper responses, prompt them immediately and with the greateat facility. The most common mistake of the bride is to take off only ono of her glores, whereas both hands are brought into requisition in the service. As for the mon, they commit all kinds of blunders and bunglings. I have known a man at that vory uerrous and trying moment, follow a clergymen Fithin the gommunion rails, and propare to take
a placo oppasito him. I havo bnown a man, when a minister strotched out his hand to unite those of the couple, tako it vigorously "in his own and give it a hearty shake. Sometimes more serious dificultice occur. Somo ladies havo had an almost unconquerablo reluctanco to use the word "obey; " one or two, if their ;own statemente aro to bo accepted, have ingeniously constructed the word "nobey." The word, however, has still to bo formally admitted into the language. Thore wes one girl, who was boing married by a vory kindly old clergymen, who nissolutcly refused to uttor the word "obey." The ministor suggostod that, if sho wero unwilling to utter the word aloud, she should whispor it to him; but the young lady refused to accept even this lind of compromiso. Further, however, than this tho clergymon refused to accommodnte her; but when ho was forced to dismiss thom all without prococding any further, the rocalcitrant young person consented to "oboy."Lundun Society.

## THE DEM.AND FOR F'ARMERS WIVES.

The joung man who works out, saves his monoy, and finally buys a farm, ari wants to live a sober, indopendent, and honest yeoman, is not altogether extinct, although Lo is not as frequont as he was thirty years ago. This class of men have little time to cultivate the graces, but they have howely virtues, and their occupation gives then robust judgment and well balanced minds upon the basis of their common-school education. They are sometimes cultured, in the best senso-unt of books, but of nature, as Thorenu was, although the farmer's life has a somewhat materializing tendeucy. I but it is no morse to got avaricious for sheep, acres and hay-moms, than it is for " first editicns," old andieons, and distant ances. tors.

But (according to the Springfield Republican) these young farmers find it dilficult to find wives. Girls of excellent eense will cast their affections on young clerls of most precarious prospects, professionnl sprigs, and men of no business whatover, rather than accept the lot of tho farmer's wifo. There is probn'ly some reason for it: for roman, with all her perversity, generally thinks she knows what sho is about. Wo fear the trouble is a suspicion that the lot of the farmer's wife is severe, and the man of the acres develops more affection for his cattle than for the wife of his bosom. This is but $\Omega$ superficial opinion, however, and there is probably more domestic happiness under the roofs of the farmers than in all the mansions of the big cities, per canita A bright and capable woman will make a good home of the farm, and not bo orerloaded by its burdens. There occurs to us just now the fine enthusiasm of a scholarly woman in middle life, going on an Ohio farm for the first time since she left her father's acres in Now England, and plunging into the mysteries of dairy, poaltry, cereal, and other crops, astonishing the natives because sho does not milk, but still more by the things she does do. No woman of spirit would find farm life empty of the satisfactions of life.

## YOUNG MEN!-READ TIIS.

Tue Voltaic Belt Co., of Mershall, Mich., offor to seny yeir folebrated Electno- Voltaio Belt and othof Elyctrif Ampliances on trial for thirty dajs, to mo (yoong old) afficted with nerrous debinty loss of vienliby-amè manluood, and all kindred/troyoles. Also for rhoumatiem, neuralgia, parklysis, and many other diseases. Completo restoration to hoalth, vigour and manhood gaaranteed. No_risk is inourred as thirty daja' trial is allorred. Write them at onoe for illatrated pamphlet free.

## BEN BOLT.




2
Oh! don't you remember the wood, Ben Bolt, Near the green sunny slope of the hill;
Where oft' we have sung 'neath its wide-spreading shade And kept time to the click of the mill.
The mill has gene to decay, Bex Bolt, and a quiet now reigns all around;
See, the old rustic porch with its roses so sweet, Lies scatter'd and fallen to the ground.

8
Oh! don't you remember the School, Ben Boir, And the Master so kind and so true,
And the little nooli by the clear running brook Whero we gathered the flow'rs as they grew. On the Master's grare grows the grass, Ben Borr, Aud the ranning little brook is now dry; And of all the friends who were schoolmates then, There remaine, Ben, but you and I.

## YOUNG CANADA.

## HEIDELBERG CASTLE.

Among the many places'of iuterest best known to the nverage tourist in Europe, is the romantio old town of Hendelberg. Its situation and surroundings render it picturesque. Nostling among hills whose slopes are well wooded and covered with vineyards, with the swift flowing Necker sweoping past its base the town presents an attractivo appearanco to the many people who ascond the Rhine nud are sure to visit Heidelberg.

As is the case with most places of nutiquity in Germany, many nuthentic and many fabulous legends cluster around the varions places of interest in this famous old town. It is the seat of a renowned unicersity, where numerous students assemble, some to study with diligence, others to waste precin::8 time in the frolics common to the Burschen of all Gerwan universities. Some of the most learmed prufessors have shed lustre on the famous university of Heidelberg.

Every visitor to this quiet old town is sure to visit the Castle, an engraving of which appears
picture gallery, where the portraits of long forgotten occupants look grimly down upon the many visitors who find their way to this historio pile. Tho great promenado is much frequented by the citizens, and the outlines of the massive octagonal tower is a conspicuuus object. The town built under the shadow of the castlo is in harmony with the living prosent; tho massive old ruin teatifies of the vanished part.

## JACHO AND POLLY.

The great fun was to watch her and Jacko in their contests for the upper perch. Polly, having taken her tiffin, was disposed for an afternoon nap, and she accordingly commenced to mount the rope ladder, but Jucko immedintely sot up a chatter, savagely showing his teeth meanwhile, and shaking the rope violently to impedo the movem. uts of Poll. In spite of thas, up sho goes steadily, hand over hand, nearer to the coveted perch, on which sits the monkey in a boiling passion, and trembling with excitement. Holding on by his tail and hind legs, he now attempts to get hold of Poll, but she suaps at his hands
rope laddor, down which her stealthy onemy alipped hko a sorpout, and making a suatoh, csught her by the base of her tnil. At that momont a well-direoted branch of bananas from me hit him in the chest, and down ho came, wheroupon Poll serzed him by the fleshy part of the lower arm, and bit it through. This was a lesson which he novor forgot, aud although his devilmont compellod him to annoy Poll as a source of fun, still he grew to respect if he did not lose her.

## SOME qUERR ANTS.

"What would you think to see an ant carrying a parabol ? " said Unclo Frod.
"Oh, unclo!" oried Johnny and Puss at the samo time.
" You know an ant could not carry a parasol," added Puse.

Their unclo had just como homo from a trip to the West Indies and South America. He land a great many wouderful storses to tell them about the queer sights he had seen. But thoy thought he must be joling with them now, for they could not believo that an ant could do such a thing.


HEIDELBERG CASTLE.
in this number. It is now ouly a vast ruin. Its right and left, with a raphdity that is perfectly founder, centurins agn, may unt have bueu much influenced by the beauty of the site, When they mado thiir selectiou. Strength aud capabinty of defence were the chief requirements in those days. It was built for safety and protectiou. Many a time it was 1 ut to the test, whe numercun wars and the leas $h$ nouralle sisaults of the robber barons, who lived bs plunder mainly.

Onc of thin most interestug historical assoclations connected with the cantlic of Hodelbere is, that for a tume it was the house of Elector Fred. erick and his wife Filizabeth Sturart, grand daughter of the unfortuate Mary Queen of Scots and daughter of Jamey I., of Eugland Duing their residence at Hudelberg, the castle was the scene of great and frequent festivities. Like all the members of the unfortunate race to which she belonged, after a brief stas $n$ of prosperity her life was darkined by misfortune. She was chosen Queen of Bohewia, zut instrad of ascending the throne the was cast into a dungeon where she died broken hearted.

The part of the castle not in ruins has been fitted up by the muncoipality as a musenm and
astounding, and preseutiy a shriek of pan anwunces that her beak has drawn blood, and down drups poor Jacko hale a stono, while loll takes quict possession of the perch, when, after repeating a few self-congratulatory notes, she dozes off a, If nuthug had hajpersed. Jacko, meanwhile, sits upun has haunches examining his bite with a very rueful cuustenanco, but a little petting from mo sets him right, and a thorough examinatiou of everythong eatable and druhable having beon made, ho goes regularly to work to "blow the stcam "ff." Mabing the rope ladder his centre, he performs a series of splendid jumps to it from all the artucles of furniture in the room, much to the diggust of I'ully, and then, after a headluag rush round the apartment, he bounds up the ladder like a flash of lightning and makes a grat at Polly's tail, dropping at once the the ground, to escape the consequences of this darng act. The bird, however, was nover injured by him in this way, for she watched his overy movement. The only tume that he ever stole a march upon her was once when she happened to be feeding in the sund tray immediately bencath the
" Well," said Cucle Fred, " their parasols were not wade of silk stretched uver a wire frame. They were ouly rieces of leaves frum trees, and the ants held them in their mouths in such a way that they covered their bodies entirely. You could not see the ants at all, so the leaves looked as if they were marching along of their own accord. The first time 1 baw any was in the West Indies. "he day, when I was riding with a friend out to his plani., lion, a, great swarm of these ants crossed our road. We watched them a long timp. It was a queer sight, 1 assure you. They did not travel very fast. There must have been thousands and thousauds of them, for we could not see either end of the column.'
"Where were they going, I monder," said Johnny.

- They were carrying the leaves to therr nests. Tbey do not eat the leaves, but thoy are very fond of a fungus which grows on tham after they lave zen a little while in ther underground nests. The ants are very destructivo, and do a great deal of damage. SoLutimes they will out every leaf uff a tree."
"Doo't we have any here?" esked Pabs, who was much interested, and wished she could see some.
"No," baid Uncle Fred. "We have some cunnous ants, but nono like those I have been tolling you about.".-Our 7ittls Ones.


Chicaco，Rock Island \＆Pacific R’y，
Being the Creat Oentral Line，antords to trayelers，by roason of lts unrivaled geo－ craphical position，the shortest and boat route Eatween tho East，Northoast and Boutheast，and the Wert，Northwest and 8outhwest．
It ls literally and striotly truo，that its connoctions are all of the prinolpal lines of road botwoon the Allantlo and tho Pacifo．

Ey its main line and branohes it roachos Chlcago，Jollot，Peorla，ostawa， Wa 8aire，Qonoseo，holine and Ryck lsiand，in llinolg，Davenport，Muscatine， Wazhington，Kooklik，Knoxvilio，Oskatoosa，Fairgold，Des Moines，Wost Liborty， In lowa；Qallatin，Trenton，Camoron and Kansas City；It Missouri，and Eeavon＝ worth and Atchison In Kansas，and the hundrods of oltios，villases and towns

## Intermodiato．The <br> ＂GREAT ROCK ISLAND ROUTE，＂

As it is tamillarly callod，offors to travolers all the advantages and comforte Faident to a smooth track，bato bridgos，Union Dopote at all connoating points． HEATED．FINELY UPHOLSTEREQ aNO ELECANT DAY SOACHES；a IINO Of the MOBT MACNIFICENT HORTON RECLININO CHAIR OAR8 ovar bullt \％PULLMAN＇S latast designod and handsomest PALACE SLEEPINO OAR8，and DININO OAR8 that aro ackncwladged by press and people to be the FINEST RUN UPON ANY ROAD IN THE COUNTRY，and In which superlor moals are served to travolers at THREE TRAINS each way betweon OHICÁO

TWO TRAINS oaon wax botween CHICAdO and minheapolis and 8T．PAUl via the famous

## albert lea route．

A Now and Disect Line，via Benece and Kankakoe，has rocontly baen opened，
Newoort Nows，Richmond，Oincinnat，Indlanapolls and La Fajotte， ostweon Wewoort Nowg，Richmond，Oincinnaty indanapolines．

For more detacevinformation，see Mapsand foidere，which may beobealned，as well as Tickets，at all principal Ticket Omose in the United Bes tes and Canads，of of R．R．CABLE，

E．ST．304M，

GAIGACO．


Begistered，－Infringomans upon any of our Patterns Fill besigoroualy prosecrtad．


A．Preventative of Elog Oholera．
Ne．念．Font Fecs long．
Price，Relipsed，$\$ 3.25$
E．G．TMSDAKE，I Erantiford Stove Wcris， ERANTFORD， ontario．
Only manafecturor in Capsia of a complete，Arst－clastiline ci Cnityron Sinble zis



## London Comarercial College <br> And Tolegraphic and Phonographic Institute．





Young Kin who contompla $\theta$ taking a Businge Course will and it to thair milrantege to give us atrial．
For olroalar contalaing fall partizulars，addrges
IVellington Panton，
Principar，Box 816.

| STEWART \＆MILNE， Imporial Standard SGALE WORKS |  |
| :---: | :---: |
|  |  |
|  |  |
|  |  |

8tock 8calos，Dairy Scales， Hay Scales，Grocers ScsIos， Furmars＇Scales，Batchers＇\＆cales， Coal Scales，Stoclyards，oto．
Whanavar our 8caloa havo beon orbibited，thoy have bean awardod Pirat Prize，and havo
 8calo Inspoctod，Stampod and Fully Guarantood．

CHE LINE SELLECTED XY TEF U．8．GOV＇T


GOING WGET
ONIT LINS RONSING TWO THBODEB TRAMS DAUI YROE
CRICAGO，PEORIA\＆ST．LOL＇IS，
Thruugb toe Heart of the Condinent by way
of Eaciac duncuon of jomaba io DEMVER，
 And SAN Folnta 10 ERANCISCO，
and all polnta in the Far Weat．bhortest kne to KARGAS CITY，
TOURISTS AND HEALTH－SEEKERS sbouid not forget tbo fact trat Round Tripuchets at Through line ；an whe Hearlu sua Ploantro
 CITY OF MEEXICO，
axd all poinas In the itexican Repabulc． HORME－SEEKERS
 Nebraka，Kansas，Texad，Coursido and Wathing
 Hincet Ranippod Reallrondintho World for
 Cajaid



駼中
PER WEEK mank zolling eur popakar Subycription Books．Sull Fin wione Brokt
and





DEDERICK＇S HAY PREESSEF


# J. M. HAMILTON 

184 Yonge Street (third store above Queen),
Wio bay our gools in tho best and chappest markets, and sell on the smallest living profit. Wo mark all goods in plain agures, and make no second price. Our terms are cash dowa or C. U. U. Wo keep only such pools as we san homestiy recommend, boliuviug that the seller has as mach interest in the yoar of the articlo as tho buyer. Customors putting up at hutuls in tho vicinity of the Market, aro supplime with tickets fur Strect Cars free

## UNEXCELLED.

In our Drepa Incrartacent the varicty, the styles and the cliearmest of the geonds wo aro showing, is such as to astonimil wery urto.
 Siow.(u). Jua can recure a full drees leugth of tho norrest
 from, may bo anderston when wo siato that wo aro ohon man clothe, Fuht closis, Nitoman sateray revino We invito tho inapiection of cur stock by all mintendiag pur.


## KEEP WARM.

Buing fully alivo to the requirements of tho season, wo hase parchased manufrcturers for zovi cabla a largo line of Twill d. Caundinu cl Hlanketr, which wo will rell at closo prices. Wor, adll a Rocul largo blanket at $50 . E(1$,
 Suu the lared blat Lent Jlauhets made ju Gircy. White and at lic. 20e. aice and Juc give rua hesry makes in all wool
 Shirt or Pants ul ubout a pound wergi $a$ heavy all wool Shart or Pants al ubout a puand weight.

ASK FOR THEM.

## UNDER TRIBUTE.

The looms of Gurmeng and France havo been put to their atmost to sargly tho demand for Velrets and Piuches Cor tho prosent seasun's trade, and rhich is without a preday rill conty takucrdure at car adranco of from 20 to 25 per cent. Oar stuck, which includes ore: len pieces, was all boggit buluyu tho adrance, and conserfutaly we can kiro our customers the benetit of our earls parchase at low prices. In plain Black Velvet curprees arvi2jc., 3ice, 33c.,

 vet and in lilack aud eshurnd brocade, our prieng aro \$9e.,
 maich cur ilrezs finculg. Wo an shoring pyecial raluo in I'ain and Jrocades in all the new Fall shades.

## Mantles and MantIe Cloths.

To bevo made extra freparations for this derartmert and aro now uafoing ifteat inducements io luyers. Hiunblu. ridth Seotch Tremia in Checks and llam, at 75 c, , 1 lic .,
 all coloury, at intc. 5 En, the, and $\$ 1 \mathrm{sml}$. Jersey Clotb, (dcablo-xidtb), at Si.n: S. :u, and up. Ostcmen Cloth (danblo-kicth, in Mack, Stal. Bruwn, Garue:, Mrric and
 op; s-i and of zlack and Bruku Suk Malalasso Clutb,
 ap boiks lutions yad Funke wnament, Fringes, Clas.

## COTTONS.

Cotton goate aso not going to bo nay lower, in fact, tho tendency is rather up thau doma, still, having l. ught at tho low prices we can xtill offer a good Factory Cultonat \$c., jc. Ge 7 c . and tho Lest, a Jard wide, fur Sc. : our jard wjulo Cotton at 3c. "is an cyo opencr" lard wide heary Twillod Shecting at 1 (1c. sad 12yc. Whito doublo witth Shechng (Trilledh, 20cenad 2sc. Enhleachod cuable-midsh Shecting (Twhled). sije. and 3.c. Whaty Cottons at Fc., Gc., Te nud Sc ; cur lec. and luc. White Cutten is fall sard wide, very heary, kull, and free from starch,
 Canton fiannel sind tho best malu lor 20e. Culoured Canton Fiannel at lic, in all shade. Ticking for stram or feathers at 124 c ., 16C. 2 (le or 2 t.

CALL AND SEE US.

## FAMIIT MOURNING.

Gouds auitablo fur Mourning wo keep a foll assortad tock, snd rompleto Maurning Oatits can bo got apoa rery Murt notice.
Youming
Mouming Cashmeres, Puramattar, Henrictis cluth, Crapo cleth, and mady oilier mates of goints alrays in stock at low prises.

Tho leet makea of Cuurtanla's Silk " Ilain proof" Crapo


Nourning Xillincry in siock or made to order.
Sharis and Anuties auitable lur Nunrning alarejs on hand or mado up io order in tho lateat strlce. For largo
Nonining orders special UISC(UUNTS almase allomed. Monning orders special UISCUUNITS almass allomed.

## WANTED, 10,000 HANDS

For hid Gloves. THo do a very largo trade, ciften selling 100 pairs in ono day. Wo uller a now liue of stiff a hid Gloves at $i l$ OU. bcing tho same line as rold overymero at \$1.2j. Long Chamois Glures at Sic. and ille Job line ack and coloura, 2 lutton kid, at 20 c .
Buttun, black and colvured, at 40 c . Worth 85 c .
3 and 4 Button, black und coloured, at 50e. worth 90 c . Clu:p, black and coluared, at rac. korth 31.
\& Button, ofera khades, at 7 je., worth $\$ 1.2 \bar{s}$.

 and 6 ouly: We
wear our Gloves.

## BUSTED.

Soo our Moulded Bust Corsets rith Spoon Busk and well bonod, at 50 c ., all sizes. Coraliuo Corsols wi Double Busk and side steels, besutifally embroidered, 7jec., all sizes. Dr. Balls Mealth Corsets. With Coiled Wire Springs, Elasire Sides (contains no rabbes), at 51.00 , all sizes. Dr, Warner 8 Health Corsets with shoulder strapa, side stecls, anu rell boned, Si.2j, all sizes. Thomson Cursetsod coract; all makes ana Corsets, al sizes, at Sl. 10 and Sl 5 . Cardioa, Cld Gold and Black Satin Corsots, all sizes, at $\$ 125$. Alisses Corsels in orery size and kinu. Childrens Corsels and fraisis. al sizes. Thoso wishing a perfect-fiting Corsel aro invited to givo us a call.

## FALL OPENING

Oar Fall Opening has been rery saccossfil snd attracted many buyers. Oar show of Silligery is magnificent, and the prices aro low. Wo show a fino asscriment of new laiking jacrets, new Dolmans, now trsters. in latest shapes and matcrialz. Our breas and cantle making do partment is rery busy with orderf. Nio ony haio up oll
 wa tion to tho palic ince with others, leatiog the result in their own hand.

TERMS CASH.
J. M. HAMILTON, 184 Yonge Street, third Store above Queen, Toronto.
WVHAT \# IS : CATARRH ? :
 305 Eing Sifrect Wicst, 'loromo, and Eet full panticulat and treati frec by chelosing stamp







