

VOL. XX. LONDON, ONT., OCTUBER, 1885. Whole No. 238.
Registrred in Agoordanos with the Copyriget Aot of 1875.


Prize Canadian-bred Clydesdale stallion, " The Colonel."-The Property of Mr. John Crawford, Malvern, Ont.
 Toronto, we asked one of the practical farmers $\begin{aligned} & \text { horser for over } 20 \text { years, and is a good judge of }\end{aligned} \begin{aligned} & \text { They are to catch the green farmera with." } \\ & \text { What a contrast! }\end{aligned}$ present what part of this exhibition he con-

sidered the best. " Why, there it is," he said, $\begin{aligned} & \text { a he had a cennersation with him. He is a } \\ & \text { We }\end{aligned}$ sidered the best. "Why, there it is," he said, pointing to a show ring of about a dozen three- $\begin{aligned} & \text { plator. We spoke to several more of our } \\ & \text { later } \\ & \text { breeders, and we here had some conversation }\end{aligned}$ | year old Clydesdale colts. "There," said he, |
| :---: | :--- |
| "is something useful and meritorious. Why | Wheeders, and we here had some conversation you cannot pick out a bad one among them, and the Canadian bred animals are just as good

as the imported stock." "Who do you consider as the imported stock." "her of this class of ani-
the oldest and best breeder of mals?" "Well, there are several good breeders exhibiting. There are Beith Brothers, of Bow-
manville, and Mr. Jeffrey, of Markham; but per manville, and Mr. effrey, of Mark ham; but per-
haps John Crawford, of Malvern, might claim geons and horse judges, and others, and from
what we have been able to glean we are led to
quote the words of what we consider to be a quote the words of what we consider to be a truthful person and an excellent judge, who our greatest speculating companies, and had xamined the speculating of imported Clydes, and had horses,
"They one. The ADvocart will positively refuse dvertisements or illustrations of a class that re considered dangerous or injurious to farmers. There has been far too much stress placed on the name of imported and importern,
and far too little attention called to Can and far too little attention called to Can
adian bred stock and our real practical adian bre
breeders.
reedrs. Colonel" is five years old, sired by imported "Wellington"(4108), Cly, de Book Gy. . imported "Wellington" (4108), Cly de Book G.

## THE FARMER'S ADVOCATE HOME MAGAZINE.

 wrhwiam weld, Editor and PropritotorThe Leading Agricultural Journal Published in the Dominion.

 onguasings, artios, handsomently illustristrated with original the most proftable, practical and roliable information or to tormers, dairot tabele. practical TETEMS 1.00 par year in advance: $\$ 1.25$ in arrears
 $\qquad$ 3. Remittenoese at the rommence wisk of the any month.




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otherra will find this journal an unrivalled adver ising

 among the best people
are radiable and are read.
Addreen

- THE FARMER'S ADVOCATE,

Our Monthly Prize Essays.
Our prize of $\$ 5.00$ for the best original essay on How could the Middlesex Agricultural Counc utilize an Experiment Ground for the best interests of the Farmers? has been awarded to Mr. Thomas Elmes, Princeton, Ont. The essay appears in this issue
A prize of $\$ 5$ will be given for the best origiral essay on Advanages and Disadvantages of the Proposed Model Farm for the Dominion. Essay
A prize of $\$ 5$ will be given for the best original essay on How can Public Expenditures original essay on How can Public expenditures Interests of the Farmers? Essays to be handed in not later than November 15th.

## UNPRECEDENTED OFFER.

Good till December 1st only.
In consequence of some of our old subscribers complaining that we have given greater advantages to our new, and in order to advance your interesta, and increase our cis
you the following offer :-
For two new subsoribers' names, accompanied with $\$ 2.00$ cash, we will send you the Far mer's advocate free for the year 1886. You are permitted to give the remainder of 188 free to each new subscribe
free to each new subscriber.
This offer is made solely to our present
subscribers.
We have much pleasure in observlng that so many of our subscribers have already taken advantage of our unprecedented offer. All who have not yet commenced the canvass should do no at once.

## On the Wing.

agricultural exhibitions,
During the past month we attended the Dominion and Provincial Exhibition in Lon don ; the Industrial, at Nonal at Hamilton; the Ay Exhibition, at Woodstock. We met with many and warm friends, and many kind invitations were received, which, for the lack of time, we were obliged to decline. What we saw and heard at these exhibitions should furnish us about, until the next fall exhibitions. It we judge by cash alone, we must give the laurel crown to the Industrial Exhibition of Toronto. Here the efforts of the leading pow ers of the Dominion were united. The Dominion was represented by Sir Charles Tupper, Gen eral Middleton and the Gatling gun, and the Province by the Lieutenant-Governor and Hon, 0. Mowat. The city of Toronto made a grea and successful effort, and the industrial and productive resources represented. The left no sto mair the fitable. The railroads furnished increase fitable. Thodation and cheap rates; the weather was as fine as could be desired. The grounds were neat, ornamental and attractive, the buildings commodious, and the visitors and exhibitors were generally well satisfied. The managers were business men, and no more selfis than other men. Their aim is to build up To ronto and themselves; they are accomplishing the end in view, and are candid in their re marks about it. The parliamentary and other interests add their strength by lending their influence towards its advancement. This in stitution has been gaining the two elements of success which the Provincial Agriculture and Arts Association has been losing, namely money and popularity.
The people need recreation and amusement, and Toronto has undertaken to supply all the credit. It is not claimed to be an agricultural exhibition, but an industrial fair This admits of all kinds of amusements, and its object is to make money; it combines a holiday and a market day for anything and every thing.
Some of the managers of this institution have condemned the means we have taken in ex-: posing some of what we considered to have been improper steps taken by this institution in securing possession of what appeared to us to be the rights or property of the farmers. Your Advocate would be undeserving of its name or its existence, were it not to attempt to maintain your rights. Despite all the united powers the following remarks: Whereas political military and entertaining influences ar all necessary, and the combination of them with agriculture may cause greater gatherings, the question may arise: Are such gatherings for the interest of agriculture or agriculturists? It is mostly our agriculturists who pay ; the others are the recipients. Yet, by the combining influenoes of other powers the
real interest and influence of the farmer, if not totally disregarded, are at least made subservi-
ent to all other interests. Even many leading farmers are entrapped or inveigled by the other interests to such an extent as to use their inluence to serve the interest of designers, and against the real interests and requirements of the farmer; thus instead of the exhibitions becoming a strength and benefit to larmers, are they not becoming detrimental? The uniting of all sinfluences at Toronto, and the great success that attends this undertals ing, will most assuredly be followed by all agricultural exhibitions. The plan is now commended by all office holders and office seekers, from the Governor-General down to the and infuence are taken from them; they and fast becoming serfs and slaves to the tar are fast
collector

> We giv

We give the accompanying illustration to be unléss our legislators' minds can be turned. The accompanying attractions were seen in Toronto this year. Probably the best acrobatio feats that have ever been seen in Canada; per haps the best ladies' band, the best lady riders, the best lady aeronaut, the best lady acrobat, the best lady skipper, and the best male con tortionist. You see the man standing on the chair; he first stood erect facing the grand stand, bent his head and body backwards, fac ing the spectators at his back, drawing his head under his body, and again facing the grand stand as seen. The Hon. O. Mowat and General Middieton wore amongs the admiring spectators; and this is the main alraotion the masses to this the
The impetus has been given and taken hold of by the public, and whether we may be right o wrong in having opposed the combination of the race course and all other speculative or even demoralizing influences, we must submit to the powers that be, and avoid too harsh a censure of what we believe to be a growing evil, and say to you that are the managers of other ex hibitions, that to draw the largest crowds yo must now stoop to the demands of the masses, that is: give us amusements and pleasures with out stint, and we will patronize you. If yo attempt to oppose it you will be condemned a a crank or a fool ; you may be tyrannized over, you will not be wanted in oflce, or asked outs and if you are an exhibitor, if you have th best, you whl han the be will be falifid or third or no prize, and you wh and maligned ; therefore, your only hope, un your duty as quitly as possible, and await re sults. The hippodrome has been the great ed ucator of those nations whose walls and people are now no more.
Every institution, and every man, and every enterprise should stand on its own merits. We leave the Provincial and Dominion Exhibition to another pen.
the atlamer township exhibition, in the county of Elgin, was a grand success. The ladies' work was astonishingly good and extensive. Some of the horses compare favorably with the best at other exnibinot as good as in some other parts of the country, where the lands are heavier and pastures richer than many in this party of the countrys.

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Ôct., 1885

In proportion to the cost, we should consider $\quad$ which was the display of traction engines; this exhibition to be doing quite as much good as the larger ones, and consider that these township shows should receive quite as much support as the larger ones that are more for the benefit of other citizens than farmers. Perhaps the most important part of the exhibition wa the walking match for general purpose horses.
We believe there were 13 entries; all did We believe there were 13 entries; all did not start, but the display was a praisworthy attention at other agricultural exhibitions
the oxford county exhibition
was also a grand success, despite the fact that
three very efficient engines were exhibited. The attendance was good.

## Dominion and Provincial Ex

 hibition.After arrangements had been completed for the holding of the fortieth Provincial Exhi bition in this city, the Dominion Government, at the fag end of its session, granted $\$ 10,000$ or the purpose of causing the Fair to partake a Dominion character. The catalogue of the Agriculture and Arts Association had already
been issued, so that the unexpected Dominion
sentatives of royalty with dazaling seting were so loudly heralded. Level-headed pro phets did not expect mainy farmers, or othe much of the harvest was still out, and great anxiety was manifested with regard to its security. However, there was a fair attend ance of farmers after the heavy rains of the fore part of the week, caused by their being unable to prosecute their harvest operations, The cause of the financial failure of the Exh bition has been laid to the charge of the un favorable state of the weather, but this view only approximately correot. The last two days were exceptionally fine, and yet the


MODERN AGRICULTURAL EXHIBITION.
Pa mat necessitated a special meeting chiefly for attendance was meagre. The truth of the matthere was no speeding of harson. was more of a $\mid$ the purpose of revising and enlarging the prize ter is that farmers have now become thoroughly necessity than a virtue, as we presume the list. The lateness of this grant, coupled with the convinced that their interests are being ignored because the grounds were not large enough to effect, the time for advertising and preparing allow of the necessary space. We would advise them not to enlarge if they want the exhibition to be a moral, educational institution, and one that will stand when the hippodrome shall have become disgusting, if not extinct. the hamilton exhibition
surpassed all others in the fine supply of fruit, and the order in which the roots were placed, these exhibits being placed in rows, side by side of each variety, thus every one could judge them at a glance. The display of stock, particularly the horses, was very good. A fair display of implements, the most conspicuous of of pleasure were numerical and enthusiastic, affair. We have never seen success and failure so completely jumbled up. So far as the exhibits were con verned, either in number or quality, the draw. The managers had made up their mind to shut out all objectionable attractions, but these have become so thoroughly incorporated with the concern that the powers are no longe of pleasure were numerical and enthusiastic especially on the opening day, when the repreoringleaders are contriving for the interests of speculators. So long as the Vestern Fair remained under the control ol farmers, it proved a grand success, both financially, morally and educationally, and line citizens of the city had no reason to complain. Now confidence is lost, and it is questionable if the London Fair can, agriculturally, ever be resuscitated. Farmers have lost all sympathy with the whole concern, and even the citizens of the city are now opening their eyes to the fact that
they are not benefited as a body, all the prothey are not benefited as a body, all the pro
fits being thrust into the pockets of the wire its being thrust into the pockets of the wire
pullers. The most notable feature was that the pullers. Exhition was a total failure as a Dominion concern. Apart from the Manitoba hortioul
ice water at $40^{\circ}$ Fahr. The perventages of ice water at $40^{\circ}$ Fahr. The perventages of
cream are by measure, not by weight. The fig. ures in both tests are placed in the same order, so that in each case the
figures in No. 2 placed under those of No. 1, represent the same cow. It will be seen that no cow stands two tests alike, and the dit ference in the individual is sometimes greater than the difference in the breed. This may be partly accounted for in the difference of temperature, the day on which the first test took place having been cold and wet, while the succeeding day was fine. The variation in the quality of the food, and in the worry inciden to the j
influence.
The same cows were further tested with re. gard to their respective butter producing capacities, the
lowing table :
table no. il., showing the milk. butter
and cheese points scored by the tested cows and breeds
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${ }^{\text {E. }}$

|  | ${ }_{\text {cosem }}^{\text {lom }}$ |  |  |  |  |
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| 为 | $\underset{\substack{23.30 \\ 28.50}}{\substack{\text { a }}}$ | ${ }_{\text {coin }}^{\substack{207}}$ | ${ }_{\substack{3 \\ 3.31}}^{\substack{35}}$ |  |  |
|  | 2919 | 124 | ${ }^{2.97}$ | 16.50 |  |
|  |  |  |  |  |  |
|  | ${ }_{18.12}$ |  | ${ }_{4}^{5.43}$ | ${ }^{\text {a }}$ |  |
|  | 2.55 |  | 4.24 | 427 |  |
|  |  | ${ }^{114} 8$ | ${ }_{5}^{8.818}$ |  |  |
|  | 28.60 |  | 728 | ${ }^{20} 3$ |  |
|  | cis | ${ }^{129}$ | ${ }^{3} 8$ | ${ }_{20}^{20,62}$ |  |
|  |  |  |  |  |  |

The standard of the scale of points was adopted from the Edinburgh show and follows closely that adopted by the British Dairy Farmers'. Association. The system is somewhat ingenious, and although not very accurate, it is quite an improvement on the "boom" method aiready described in our columns. Where are those prodigious yields now? With regard to the quantity of milk, each pound counts one point, and as to quality 3.5 los. of butter from 1 or a the dually given by each cow is then taken and multiplied by 10 , the product being added to the points when the percentage given is the points when the percentage given is
above the standard, and subtracted when below. The English and American standards are 3 per cent.; that adopted by the Model Farm is 3.5, it being assumed that cows when imported to Canada give one half per cent. more butter than if left in England or imported to the United States. Moreover, points are added corresponding with the num ber of pounds of curd from 100 pounds of milk, and one point is added for each 10 days after calving.
It will be seen from the above table that the


Holsteins have not maintained the reputation they have won. There appears to be an excess of water in their milk. There were some "scrub" nurses admitted to the grounds as col lateral security for baby stock. Would our farmers like to have seen them figuring in the tests?

## live stock.

Taking all the departments, the exhibite were the best we have ever seen in Canada. In cattle all the breeds were represented, and the ycrease in the illy marked. The over pas tion, which had been quite ample in pastyears, was insufficient, and temporary sheds had to wo erected specially for the occasion. The Board was fortunate in being able to secure the services, as superintendent of cattle, of Mr. E. W. Chambers, of Woodstock, who performed his duties so efficiently that the stockmen pre sented him with a gold-headed cane-a recog. nition which his courtesy and ability richly de served.
Most prominent among the features of the live stock exhibit was a five-year old steer of Jumbonian gigantitude, shown under canvas boasted weight, 3,540 pounds; 'heavier than al the cows in my barnyard-admission only 10 .. that is to say, one we, just the dollar: W . with thir bot wha Bord, elect ed by the farmers of Ontario to consnl their interests, stoops to be made a prey-ye worse, a mere thing-in the rapacions maw of unmitigated humbugs, then all sense of duty and propriety is outraged. What earthly goo can be accomplished in the encouragement of such monstrosities? The Board is hoary and experienced enough to know and feel that it too weak to resist the future importunities that are likely to spring from this act of its servility horticultural exhibits.
The display in this department was unques tionably the best ever beheld in London. Mr. D. Nicol, of Cataraqui, was in charge of the exhibits, and we have never seen a more order y and instructive arrangement. Every facil ty for ga' hering information was afforded. M Nicol took special delight in imparting inform ation to the visitors. Many farmers took specimens of fruit from their orchards and compared with those exhibited for the preatly aided by the judges. We are convinced that a great deal of good can be accomplished in this way, it being to the interest of every farmer to be able to name the variety of every grain, fruit and vegetable which he grows. We notice one unpardonable blunder, however: the varieties of vegetables exhibited are not alwayd the best selections. More confidence can be placed in the varieties of fruits. Exhibition prize lists would be a valuable class of litera ture for our farmers if the selection of the best varieties could be depended upon.
The Manitoba exhibit attracted special atten tion. Grains, grasses, and vegetables had been lected fromaiferensol him to Northwest, and were hiriewe stion al though many of the vegetables were harvested nearly a month before the opening of the exhi bition, yet there was nothing from our own
tural display, and a few minor exhibits from the Maritime Provines, the show was alm these monster exhibitions have been abnormal they require more stimulants every year, and the more they require for their present succ the greater is the certainty of their final butber , he in insed Bot as is the case at all dairy shows, the judging was a farce, no advanta whatever being gained from an edn tional standpoint. A surging crow of chees and butter tubs at a distance. Unless some re liable standard for judging be adopted, men, and even to the judges.
Great curiosity was excited over the Mod Farm department. Machinery was erected for gal force, under the supervision of Prof. Barrie including the making of butter. Tests of the milking breeds were made under the eye of pro. Brown. were used We were astonished that none of the De Lival separators were on the spot, which are so highly spoken of by many of our best dairymen. The truth of the matter is that the Government has been used as a tool for the purpose of booming up this separator at the public expense, aud doing free advertising for the agents. Following this precedect, all the manufacturers of machinery in the Province will expect the Government to run their exhibits at future shows; it is surely foreign ones at the public expense.
We are pleased to learn that the Government is showing signs of improvement in its methods testing dairy breeds. It is beginning to see hat its bsst agricultural policy is to work in results of these tests, believing them to be approximately correct, so far as they go, althoug The cows tested were all on the exhibition grounds, and the conditions of the tests wer all alike, except that the owners fed their cows according to their own individual judg ment.
table no. i., showing the percentages of cream.
 $\underset{\text { Test No. } 2}{\text { Test }}\}\left.\left._{21.6}^{15}\right|_{9.8} ^{8.4}\right|_{17.4} ^{14.8}$
${ }_{T}^{\text {Test }}$ Test No. 12$\}\left._{23.2}^{12.8}\right|_{20} ^{24}$

It will be seen from the above figures that there were in the competition eight Holsteins, hree Ayrshires, two Jerseys, and two eparate consentive days, and the milk stoo separate consecutive days, and the milk stood

Province that could be compared with them. Grain was shown in bag and in sheaf, and the in the wheat sheaves was 57 inches long, oats, 62 inches; barley, 57 . The display of native grasses was quite a curiosity for our farmers The following list gives the names of the grasses with the length expressed in inches: Wild rye grass, 62; red top, 62; English rye grass, 61 ; blue grass (wild), 58 ; wild rushes, 90 ; Hungarian rye grass, 50 ; wild oat grass, 69 ; wild vetch, 119; blue joint grass, 82; prairie grass, 75; wild wheat grass, 75 ; there being also flax, wild peas, wild hops and wild sage included in the display. The potatoes especially were marvellous, and the exhibits of all the leadgretted that the name the varitios and vegetables were not given. vegetables were not given.
agricultural machinerx
The exhibits were remarkable, surpassing anything that had previously been seen on the ground, both in quantity and in the num ing and harvesting machinery.

Tests of Dairy Rreeds at the In-
It will be interesting to compare the following table of tests of dairy breeds, which were conducted by the Government during the Industrial Exhibition recently held in Toronto, with a similar table showing results of the tests conducted at the Provincial Exhibition held in London. The latter figures will be found in on the same plan, as before explained :
table showing results of the tests :

| Breeds and Exhib- itore. | $\left\|\begin{array}{c} \text { Milik } \\ \text { peer das } \end{array}\right\|$ | $\begin{array}{\|l} \text { Time } \\ \text { sine } \\ \text { caly. } \\ \text { ing } \end{array}$ | $\begin{array}{\|l} \text { Rutter } \\ \text { per } 100 \\ \text { lis.of } \\ \text { mi.k. } \end{array}$ | $\begin{gathered} \text { Curd } \\ \text { per } 100 \\ \text { pos. of } \\ \text { milik. } \end{gathered}$ | ${ }_{\substack{\text { Tutal } \\ \text { Puinta }}}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DEvors : Mr. Harper | ${ }_{33}^{\text {libs. }}$ | ${ }_{\text {days. }} \mathbf{d}$ | ${ }_{3}^{108}$ | ${ }_{\text {libs }}^{13.3}$ | 54.93 |
| $\begin{aligned} & \text { Aypsures: } \\ & \text { T. Guy........... } \end{aligned}$ | ${ }_{32}^{23.6}$ | 167 | 463 |  | ${ }^{67.90}$ |
| Mr. Smith.......: | ${ }^{33.6}$ | ${ }_{14}^{14}$ | ${ }_{3.59}^{4.18}$ | ${ }_{14.90}^{13.33}$ | 54.13 |
| Ave | 29,7 | 64 | 4.15 | 16.54 | 68.1 |
| V. E. Fuller. |  | ${ }^{141}$ |  |  | 56.00 |
| "، | 24850 | ${ }_{119}^{91}$ | ${ }_{6}^{4} 87$ | 17 17.80 | 683.80 88.65 |
| A. Jeffrey.. | 17.75 | 195 | ${ }_{6}^{6.72}$ | ${ }_{14.90}^{12.80}$ | ${ }_{83.35}^{86.65}$ |
| w. A. Reburn | ${ }^{131.62}$ | ${ }_{118}^{145}$ | 6.41 | cos | - ${ }_{89}{ }^{6} \times 32$ |
| Averages.. | 23.37 | 134 | 5.57 | 16.3 | 73.79 |

Here it will also be seen that the Jerseys have scored the highest points. We have lit have scored the highest points. We have lit-
tle faith in the accuracy of the points, but the other figures given indicate the - superiority of the Jerseys. There is no ratio between the figures which make up the total number of points, and it appears that the figures indicating the percentage of butter count inordinarly high, thereby giving a relative advantage to the breeds which produce a large percentage of butter. The enormous difference in the results of individuals of the same breed is specially
marked. It is to be hoped that these tests will prove a starting point for accurate results in prove a star

I am pleased to see the Farmer's Advocate still taking the lead as a farmer's paper; every farmer should take it. Robert Wilson. Gananoque.

Farmer, Stockman, and Speculator At the recent exhibitions we had an opportun ity of meeting many of our old friends who are more or less concerned in our live stock indus. try. We were frequently asked why we called them speculators, and many felt indignant a our live stock policy. They informed us tha eveling was a mpeculator and it was unfair us to stigmatize them in such a manner. So stigmatized us by declaring that we wer the champions of the "scrubs."
On the other hand, we met with farmers wh nearly tore us to pieces for being so lenien with those "rascals," who wanted to tax the "scrubs," and stigmatized us for not champion ing their interests with more vehemence. One farmer related his case to us in the following language :
"I live in a cheese district and keep 16 cows. my best cows to thoroughbred bulls. Ther o my best cows to thoroughbred bulls. The other
12 calves I knock on the head as soon as born, and no man has any right to compel me to put
these 12 cows to a $\$ 500$ bull If I find it these 12 cows to a $\$ 5.00$ bull. If I find it
to be to my interest to put more cows to more to be to my interest to put more cows to more
expensive bulls, that is my business, and the expenulators, as you call them, have no right to
dictate. I know something, too, about thos dictate. I know something, too, about those
hooms. Not very long ago there was a sale of hooms. Not very long ago there was a sale of
Shorthorns in my neighborhood. A good many Shorthorns in my neighborhood. A good many
farmers were present, but the bidding went
slow. Finally, hogus sales were eftected to inslow. Finally, bogus sales were effected to in-
terested parties at high figures, no transfers having been made, and in this way a few farm ers were taken , in, believing the bids to have
been genuine," been genuine."
We may not have defined with sufficient per spicuity what we meant by the word "specula
tor," but we have shown no reason why stock men should have taken offence. The latter ar the men whom we specially desire to encour age, while if we thought it advisable to levy a special tax on any class of the community, would advocate the imposing it' on the poll of the speculator. We have not yet, in all our travels, met with a stockman who advocated a special tax on "scrnbs," or any other class of stock. The stockman purchases superior stock chiefly "with the view of improving his own herd, and, like the Larmer, is a man of peace not of war. He knows and feels that there is room for all who wish to do an upright business, and should he meel for hemarary reverse ties as well as stock raising. He puts as much if not more, stress upon the improvement of his farm. The speculator, on the other hand trades in fancy stock and fancy pedigrees, at fancy pricts, and to him reverse means ruin. He is constantly waging war; he wars with the judges who fail to award him all the red tick ets at exhibitions and fat stock shows; wara against all breeds except his own; war against all who refuse to accept those dishonest pail records, or block per formances of the magnates of his breed as evi dence that all other breeds must go ; in short he never enjoys peace except in the midst of
war. Our policy is to grapple wine reather abnormal conditions, the men who suffer being of minor consequence. We are the champions of light and right. As we stated in previous issues, we will bring forward any breed that can be proved by honest records to be the best.

We do not apprehend hore from the class legislation policy of the speculators, or their organ. Fearing the reproach of men of common sense, it has, in its last issue, denied hat it said its "voice is still for war;" and be
 om of our Government to anticipate the revand their organs.

## Notice to Farmers and Amateur Fruit Growers.

We have had the good fortune of being able to secure the services of Mr. Linus Woolverton, Grimsby, Ont., in contributing for our colunns a series of articles on fruits, the first of which appears in this issue. His writings re known and appreciated by all the leading fruit growers on this continent. He is emin. ently practical, being owner and manager of Canada, orchard in the finest fruit centre of and culture of the leading varieties of large and mall fruits. He has also the advantages of a perior education, being a graduate of the Toonto University, and there is no detail in the science or practice of his business which hat men of euch high attainments take delight in the so-called drudgery of agriculture.
Every section does not possess the natur advantages of the beautiful and fertile territory protected by the Niagara escarpment, so that Mr. Woolverton will not confine his observations to his own experience alone, but will also proent the experiences of reliable fruit growers in the less favored sections of the Dominion, whereby justice to all our readers will be done. There are several reasons why we desire to pay special attention to fruit growing at the present. (Bear in mind that we still regard griculture proper as being the nost important branch.) We have great filth in the future of foreign markets ; bnt, unlike most other banches of farming, it takes several years to establish a growth. Don't be alarmed at low prices, these being regarded more as an advantage than as a detriment, for they increase conumption and improve market facilities. Even at the lowest prices we have had there are large profits in all fruits of superior quality, and all inferior grades can be profitably fed to stock. The lack of canning and evaporating factories is due to the small quantities of fruit grown in any given locality, as woll as to exising ighprice. As ads these establishments will fourish. Begin by procuring the best varietien for use on your own tables, and when you once et a start you can propagate at little expense. Hints on after-management will appear in the Advocate in their proper season.

Dear Sir,- Enclosed find my subscription for the Advocate for the ensuing year. I would not willingly be without it. I can highly compliment you on the improvements you have made, and I think it is second to no other arm journal. I have much pleasure in expressing my thanks to you for the
Panmure. $\quad$ Joнn Mooshousk.

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Middlesex Agricultural Council. The regular monthly meeting of this council was held on Sal D. Leitch, in the chair.
B. Leitch, in the chair.
. by-laws as published in the August issue of the of the clauses, it was moved by W. A. Mac. donald, and seconded by John Kennedy, that the constitution and by-laws be adopted without change. Carried.
Moved by John Kennedy and seconded by Joseph Jchnson, that John Wheaton, George Douglas, and John Weld be electod as members of the Board of Control. Carried.
After a lengthy discussion on the question as to how the Council should dispose of the $\$ 100$, or any part thereof, granted annually by Mr. Weld, for the abenefit of agriculture, it was moved by Mr. Wheavon, Kennedy, that a commitce of seven be ap pointed to visit arial report to the Council, with the object of ascertaining what real practical benefits that institution was doing for the farmers of the Province, that the Secretary be instructed to acquaint Prof. Brown as to the time and object of such a visit, and that the ex penses of the committee be paid out of the special fund of the Council. Carried.
It was decided, after some deliberation, that the committee should leave London for Guelph on Wednesday, Oct, 7 th, on the $7.30 \mathrm{a} . \mathrm{m}$ train.
The President then nominated the following members to act on the committee: Messrs. Leitch, Kennedy, Anderson, Wheaton, Johnson, Douglas and Pearce
The newly appointed Board of Control proposed to retire for the purpose of deciding upon a program for and Council unanimously agreed that a disoussion on the reports of the committee appointed to visit the Model Farm be the program.
The Council then adjourned.
To Farmers' Sons.
We want active agents in every township to anvass for the Farmer's Advocate and Homi


On account of the number of high-priced cows that have lately been fed and milked to death for the purpose of producing "records," the New York Tribune suggests that the matte should be taken up in a decisive a form of humaity not less heinous than others which meet condign punishment. We would add that feeding for fat stock shows be included in the same category, the form of cruelty in the latter case being even more appalling than in the "record" outrage. In feeding for fat the cruelty continues for two or three years, whil in feeding for large yields of milk it only lasta for several days as a rule. If the one produces untimely death what must be said concernin the other? Why doesn't some ambitious inves tigator test how long it woutd
Christmas beef steer to death?
$=$ found

## Ghe Fiarm

Farm Drainage.
No. il.
Having described the different conditions of water with regard to the soil, and having pointed out that plants live on the moisture and nourishment obtained for the not from that within the en parween them, it now in place to con-

1. The Effects of Surface Washing. It being well known that most waters contain appreciable quantities of plant food, it is important that the water be so regulated that the soil, or rather the plants, obtain the greatest possible henefit therefrom. Now if the surplus water roduced from excessive rains be allowed to wash over the surface of the field, not only will the plant food in the water itself be lost, but the finer particles of soil and the soluble plant food in the surface soil will also be washed away. These particles, called silt when found in running streams, consist mostly of clay with hecayed vegetable matter, and are the valuable portions of the soil, sin whis coarser and less valuab, filizing matter in soluilt contains valuabr The capacity of water depends upon the depth and the rapidity of the fow. It is now plain that if silt-water overflows your field, and is allowed to percolate through the soil, the land will be of inexhaustible fertility, for most of the fertilizing matter will be retained in the soil, the drainace water containing very little of its original water, or in fact any water that has once soaked through the soil, overflows your land, it wil contain very little fertilizing matter, and so should be got rid of in the most effectual man ner and with all possible speed; it is only useful in supplying moisture in a dry season, and has little or no value from a fertiling point view. The ditermediate in its character ; it con tains appreciable quantities of plant food be fore it soaks through the soil, and if it forms silt water it becomes specially valuable as a fertilizer. Few farmers, however, are concerned in being enriched by silt water at the expense of their neighbors, or in beingimpoverished by a surplus of water from underlying springs, so that the question is practically limited to the disposal of water from rains, and we have shown that the surplus should not he al lowed to wash over the surface of the field.
2. The Effects of Water Percolating through the Soil. The advantages of drainage depend largely upon the value of percolation, and we shall therefore be somewhat detailed in our observations. We cannot obtain a true estimate of its value without knowing the causes of fertility and exhaustion. We maluble and insoluble histinguish betwen soll as the sources thereof and plan able to take account of the gains and losses that are constantly taking place.
The broad question is that all fertility de ivel from rains and dews has primarily asus from other planets. In our articles on man ures, our statements to the effect that plants
ontained a large number of elements and com. ounds, will be remembered, but we only treatd specially of three, viz., nitrogen, phosphoric arin and now be equally ircumscribed, confining our remarks mainly to the effects of drainage on these constituents.
When exposed to decay, all animal and vege When exposed to decay, all animal and vege-
able substances gradually revert to the originable substances gradually revert to the origincomposed. It is a process of slow combustion. The constituents of the plant which came from The air return to the air. and those which came from the soil return to the soil; dust to dust, and air to air-part remaining in the earth as a solid or a liquid, and part escaping by volatilization in the form of gas. The re-union of these constituents produces vegetation, and there is a con stant interchange of fertility between the soil and the atmosphere. The carbon, which form about 50 ner cent. of the plant. escapes united with oxygen, forming carbonic acid gas, and re+urns to build succeeding vegetation through the leaves, never through the an it nther constituents of the plant nourish it through the roots, although mos from the of plant food is washed into We shall here tmosphere by means of rain. Wuestion as to ay nothing aboutle or no nitrogen be taken whether much, .ittle, or he leaves, merely menthe solls deficient in this element re greatly henefited by the application of nitroenous fertilizers, which proves that large quantities are absorbed by the roots. This is the practical view of the question, and we shall not indulge in speculation.
It is now important to know in what forms nitrogen exists, both in the soil and in the atnosphere, and the affinity which different soils have for ferilizing compounds. The decay 0 animal and vegetable matters is the source of nitrogen. When this element unites with hy drogen it form a gas called ammonia, an afterwards, when oxygen is added, it forms tric acid; this is a liquid, bur with lime, potash and oth decaing vegetable rates. If there is mil the ammonia is re matter (humus) in the sol, hes into the air, and will pines down on your neighbor's will perbar ow in mind that nitrogen in the form of ammonia can scarcely ever be washed out of the soil into the drainage water, while if left to the action of heat and moisture till it is converted into nitric acid, it is then washed into the drain in large quantities, unless ther is a growing cropon the field to absorb it. Thi nitric acid does not escape alone, but carrien with it large quantities of lime from the so the loss being largely in the form of cotiling lime. Small quantities of mostly al matters may sometimes be lo water, but no appreciable waste calo loss can be prein the case of nitric acia.
vented by skillful management.
The supply of nitrogen from the atmosphere now remains to be considered. Atmospheric nitrogen also exists ins and itric acia. These is also absorbed from the air by the soil during warm, dry weather. Carbonic acid also descends with the rain, and al-
though this gas has no direct fertilizing value, it increases the solvent power of the water thereby making insube plana uble. Rain also furnishes small quantities sulphurio aco a brief series of articles
a brief series of articles.
We desire specially to urge upon farmers the importance of nitrogen in its relation to drain of fert ililiy, hut also the most liable to be wasted in the handling of farm-yard manures, We ha:e previously pointed out how the nitro genous substances can be preserved in the man ure heap; you can now see how to preserv them in their relation to drainage.
With regard to the relation of phosphoric acid and potash to drainage little need be said. These salts are furnished by the soil and feed the plants through the roots. They are rarely found in drainage water, owing to the absorptive and retentive power of most soils for them, and to the fact that they are retained in the chanical adhesion. as is the case with the ni trates. Sandy soils, being coarse, have less retentive power than clay, so that clay is always richer in phosphoric acid and potash than coarser soils, but nitric acid is easily washer out of all solls

## Value of Cisterns.-How to Make a <br> Cheap one.

The quality of water, like that of food, varies with the locality, and custom educates the tastes in both cases. Water is water only when pure ; it is the impurities that change the quality and do the flavoring. Canadian farmers, as a rule, would rather drink un wholesome spring water than wholesome rain water ; they are educated in this manner, and believe that the water which has the brightest The clearest and most silvery looking spring water may be tainted with impurities. What water may be tainted with meference to the water in a large percentage of our wells? When dug in the neighborhood of barnyards or water closets, wells are a convenient receptacle for many impurities which filter through the soi into them, and are a fruitful hot-bed of disease to those who drink the water. Streams are apt to be impregnated in the same way, and running, as well as stagnant, waters contain
organic impurities, the product of decaying organic impurities, the product of decaying vegetable matter, which are injurious to the
health. health.
In some countries spring or well water is no
drunk by the inhabitants, even when found in its purest state, rain water being preferred its purest state, rain water being preferred
When the taste becomes educated to the latter the former is not relished, it being too saline to the palate. The prejudice against rain wate is mainly caused by the filthy fondition in which the cisterns are kept. Rain water, in the usual method of preservation, is often impurer and filthier than the water from ordinary wells, prings or streams. Cistern water can be con trolled by the farmer; other waters cannot, a a rule. Many farmers have good enough wate or family use, but rest satisied
products from oows which drink filthy water nay be about as injurious to the health of the consumer as if the impurities had been conumed directly. No farmer can make an excuse for having impure water for his family or is stock.
If the cistern is to be dug in a stiff clay soil, the best plan is to dig bottle-shapen; that is, make an opening about the size of an ordinary ell, greater or less, according to the dime cavation is two or three feet deep one to widen by degrees until the desired diameter of the cistern is reached, then proceed in perpendicular line to the proposed depth.
In this kind of soil no brick or stone wo

$$
\begin{aligned}
& \text { In this kind of soil no brick or stone work } \\
& \text { need be built, but a good mortar of lime and }
\end{aligned}
$$ and mixed with cement, and plastered on the sides of the cistern, will make a cheap and durable structure. Even the lime may be dis: pensed with, and a durable material made by asing one part cement to four or five of clean and. A second coating may be made of a mortar consisting of half sand and half cement, nd then a finishing coat of pure cement should be applied. If greater hardness and durability

 hose a wall of brick or stone must be buitt sing ordinary mortar ; but the plastering mus be done with ce nent.

## done

The next precantion is the arrangements for tand long in the cistern. If it is allowed to it acquires an offensive odor, whi $h$ can be pre vented by proper ventilation and filtration Put a bushel or two of broken sharcoal int he bottom of the cistern. This will aid some what, but when greater purity is desired, the water should be strained through some sort of ilter. A good filter is as cheap as an inferio ne. Take an ordinary water-tight barrel with perforated bottom and lay in a layer of gravel; pon this put a layer of fine, clean sand, and hen a layer of charcoal the purer will be the water that filters through; then put on an ther layer of sand, and finally another layer f clean gravel. This barrel may be kept near he cistern and the water filtered through in the quantities required. The chief value of rinking water is its character as a solvent, and pure rain water has the greatest solvent power When you become accustemed to drinking it you will relish it even when kept at a compara ively high temperature, and there will be no ecessity for the use of ice. Proper ventilaion can easily be secured the cistern, cover ginserted belside end with wire gauze, so as to revent the ingress of extraneous matter Wire gauze should also be securely fastened to he ends of the eave-troughs, or to the tops of he sprouts connecting them with the cistern, oo as to prevent insects or other injurious mat er from entering into the cistern. The cistern cover should be so tight that there will be no langer of obnoxious matter falling into the water. For household purposes, the cistern honld be cleaned out at least once a year, b hen the war 1 for eral years.

## Deep vso Shallow Plowing

This question has been disoussed threadbare and yet there are many farmers who adhere tenacionsly to the one or the other side of the question without taking the various condition. into consideration. In our last article onthe subject, we treated of it with special refereno to the cleaning of the land; we shall now refer to other important considerations.
The first inquiry should be: what is the oharacter of the soil and the subsoil? What is the plied? The last question is auxiliary to the first. It must also be borne in mind that fall rains and winter frosts only act in the olayey portion of the soil; the vegetable portion is converted into plant food by the action of heat and moisture. It will now be seen that the olay fields shonld be the firot object of attention, and that the beneflicial effeots depend (1) upon the quantity of clay exposed on the surface, and (2) upon the depth loosened up to the action of the frost, so that the rougher the surface the greater will be the area exposed, and the deeper the plowing the greater will be the cubio dimenfrost will produce a maximum effect in the un locking of the insoluble constituenta of plant food. These remarks are based upon the pre sumption that the subsoil is not inferior to the soil on the surfaoe; a small quantity of stiff bottom clay will receive the greatest benefit by be ing exposed to the surface over winter.
When farmyard manure is spread over the field before it is plowed, it will, by leaving the clay more open, make the soil more sasceptible to the action of the frost; but if the manure lie spread evenly over the field until it has re ceived a considerable quantity of rain, the sol. distributed in the soil than when plowed in be fore any rainfall. Manures are not benef sially acted upon by frost; like the vegetable portio of the woil, they require heat for their conversion to plant food. Fr m these considerations it will also be seen that late plowing is more benefi cial than early, for the soil will not likely be so compact; the more compact the soil the more frost proof it will be. In order that the frost may have its greatest effect water must not be allowed to stagnate; and even if the soil is no drainex, the water whinly escape at leas land is drained the more it will be benefited by deep plowing.

## deep plowing.

Nu farmer can plow intelligently now with. It takes twice as much manure crop is to be. soil ten inches deep as five inches, and if the coming crop is a surface feeder, and if the man ure is scarce, there may be an advantage derived from shallow plowing. It will take twice as long to exhaust ten inches of soil as five, other conditions being equal. But then it must be remembered that shallow soils are favorable tike feeding stock and it is feeding soil is tunt it for several years and then cram it stunt it
at once.
The main points, therefore, for the farmer' consideration are: pay attention to the stiff fields in the fall, leaving the mixing of the soil and the getting of it into pro
condition for the spring work.

## Care of the Cellar.

A wholesome cellar is at the bottom of healthy living, says Dr. Kedzie in N. Y. Tribune. One reason is that the air and floating germs of the cellar find their way to every room in the house. Many of our most destructgerms floating in and a congenial home in the animal system, their development causing disease. Mildewed eellars and mouldy closets are nurseries of disease. Even in their dry form the spores o these low forms of life often cause serious sick ness. The worse attack of catarrh I ever had was caused by inhaling the dust arising from overhauling a pile of mouldy rubbish.
A rriend thld mof a simem handling the fungus-spotted firewood which drying. "The dust choked me, and my nostrit and throat were on fire for me, and my nostril onded in the worst cold in the head I ever an perienced." If these spores in the dry form are active cause of disease, what will be the re sult of living constantly in an atmosphere fille with these germs in their living and active forms? Is it remarkable that diphtheria and croup find a ready home in such dwellings? The cellar should differ from the living-roo mainly in being colder and darker. The custom of making the cellar the family storeroom for milk, butter, meat and vegetables which require cool, and some of them a dark room, is to frmly established and too economical to ex pect any change. But none of these domestic la Thargen, by a musty and close atmosphere, cellar as in parlor. Butter and mill pure in bsorb foul odors, and no fier treatment remove the stink
It is not carbonic acid which is the source of danger; but dampness, putrescence and fungus growths are the real dangers. Carbonic acid does not gather in the cellar because it is heavier than air, for then every valley and depression should hold a pool of carbonic acid; nor does it oause beads on the floor timbers clamminess to the walls. It is excess of moist ure which plays the mischief, and affords the conditions for putrefaction and the develop ment of fungus growths. The prevention lie mainly in good centiation the immediate ubstances. By thposing animal or vegetabl moisture is removed, and the putrecibess via which support fungus growth.
By carrying a separate shaft, $12 \times 12$ inches, from the bottom of the chimney-which down to cellar bottom-to the top alongside the smoke-flue, and leaving a hole $2 \times 12$ inches in the side of the ventilating shaft at the bottom of the cellar, good ventilation will be secured at all times, and the cellar kept wholesome If no such provision was made in the plan of the house, than ventilating shafts of galvanized iron tubes four or five inches in diameter should be carried from the bottom of the cellar into some chimney, or up through the roof to disinto io the open air. If can empty draught, the results will fire causes a good One good agency for teepige satisfactory. ollar sweet and wholesome is white air of the
of good white lime and water only. The addition of glue or size or anything of this class is only a damage by furnishing organic matter speedily putrify. The use of lime in whitewash is not simply to give a white color, but it reatly promotes the complete oxidation of anluvia in the cellar air. Any vapors that oon ontribute nitrogen in the unoxidized form ontribute po
disease germs.
Lime powerfully promotes oxidation, espesi ally in damp situations. I have seen cellar walls where the mortar was covered with white efflorescence of nitrate of lime. So powerfully does ha acelerate oxidation itrates that it maves the "the formaion of foul alleys of oluble and the rain soon washes away the lime of the mortar leaving only the sand to hold the bricks together. The same tendency to oxidation may keep the cellar free from foul odors by oxidizing the volatile nitrogen compounds into innocent nitrate of lime.

## PRIZE ESSAY.

How can the Middlesex Agricul tural counci Utize an experimental Ground for the Best Interest of the Farmer?
by thomas elmes, princeton, ont. We have arrived at an age when agriculture has of a necessity become a science, which every ne engaged in it must study to have the leas hope of success. The virgin soil that produced in, has become impoverished thro the pou stant drain upon it by our system of farming in he past
Our changing seasons, which from year to year seem to be more trying, and the numer and consideration. It is impossible for any one individual to give that attention it requires to cope with the vairous formidable difficulties now placed in the pathway of the agriculturist, so as to be able to give to his fellows that ad profession.
In consideration of this we are pleased to se the farming community are awaking to their best interests, and forming themselves into agricultural councils, which, no doubt, if pro perly conducted, will have a very brilliant fu ing of experime tal berat. The found of anything yot prosed. Sisepilvance act that seeds no meter how equally well in every locality, but different var eties are best suited to certain soils and loca tions. In the first place, the Council should secure for experimental grounds, land suited or the growing of grain, not such as has been chosen at the Guelph Model Farm, which is only suited for pasture or hay, and would have been of untold benefit to the country, instead of, failure.
After suitable land has been selected, a per son should bechosen who is in every way suited, termined to make it a success. The land de-
be laid out into suitable plots, and as grain the foundation upon which our existence de pends, too much attention cannot be paid to it Different varieties should be collected from every quarter and tested thoroughly as to their value. I have found, after considerable exper ience, that all seeds coming from the old coon try, or any other warmer clime than ours, are almost invarably a failure the first year or two while those coming from a, cold or colder climate, are a success the first season. Introduc ion and experiments in grains are very essen ial for our prosperity, as our ohangeable sea sons soon take out all the vitality of our best arieties, necessitating the change of seed every ew years, even if we really secure good varie ies.
Again, so much imposition is practiced on farm ers in new grains, that it would be a great savwere tested and reported on by the Council be fore being purchased by the people. It is some thing serious that our best grain producer clover-especially the red variety-is passing way on account of the insects preying upon it and something should be done to find a substi tute or a cure. This is something which should occupy a very important place in an experimental ground, as it is the cheapest, best, and nost convenient manure we can use. Ind $\epsilon$ ed, it seems almost impossible to farm without it. If nothing else can be found to fill its. place, wo believe that even red clover seed can still be raised successiully, as we have done the last wo years, by adopting a new plan, the old plan aving proved a total failure.
Mixed grasses for pasture and hay should be experimented upon, to ascertain which vari est crops. We must have mied he Stock of all kinds are absolutely necesary raise grain ; indeed, perhaps the most profit it in stock. It is lamentable in passing through the country to see stock grazing on the natura grass, year after year, on the same ground working hard twenty-four hours in the day to maintain an existence, when, by judicious seed ing, the same land would produce ten time the feed and corresponding profit.
Several plots should be devoted to roots all kinds, to ascertain which are the best and easiest raised, and have the greatest feeding value; also to find the best time to sow and best remedies against the various enemies with which they have to contend. It would be well lo to sel apart a portion for vegetables, rrived when we must use artificial fertilize hese should also have special bion to ascertain which are the best on differen oils and different crops; much doubt exists as to what to use, when to use and how to apply them to various crops, whereby much injury and disappointment are ocasioned. The Council should consist of practical farmers, who are obliged to get their living by
the sweat of their brow, not doctors, lawyer professors, \&.., who would spend a fortune and be of no practical benefit whatever. If proper nen are chosen as managers and go heartily
into the work, no doubt such reforms will be secured as will bring increasing prosperity to ou Dominion, protection or no protection. W hope the day is not far distant when each
county will have its experimental ground, and a wide awake Council to manage and report o:
the same.

تृhe Dairy.
Plan and Description of a Model Creamery.
The accompanying illustrations represent a cheap and convenient creamery, having a capacity for 2,000 cows or more. The size of the main building is $30 \times 40$ feet. As will be seen in Fig. 1, the building is erected on the slope of a hill, the dotted line representing the slope, the mound and stone wall being represented as torn away in order to gain an insight into the interior of the basement. Fig. is a plan of the basement
The cellar, used for storing the tubs of butter, is under the cream room; there are steps leading up from the churning room to the cream room; and other steps, which start from the same point, going down from the cream room into the cellar. The feet high, extending forward eet who, extending forward but the remaining part of the but the remaining part of the the cellar being therefore 31 feet deeper than the churning oom, and the cream room is $3 \frac{1}{2}$ feet higher than the churning room, leaving the cellar
and cream room each seven feet high. The height of the churning and butter packing rooms is $10 \frac{1}{2}$ feet. The cellar floor is cemented, but an ordinary board flooring will do for the other rooms, bearing in mind that he cream room floor should be water tight in order to prevent water from leaking down upon the butter tubs. The ceilings and sides are

Fig 3

| ChUamis <br> $10 \times 16$ | LREAM RIOM$18 \times 20$ |
| :---: | :---: |
| gutterwafking packing room 15x16 |  |
| ENEINE 2 WASHING hoom $14 \times 14$ |  |

## ig. 2.-plan of basement

Water power is preferable to steam, a greater convess can always be observed and will run a without any pressure will do for of water Treamery under a head of about fourteen feet The cream is led down by
wagon, where the horse is standing, into the
cream vats. cream vats. The cost of such a creamery, where stones are plentiful and not unusually far to draw, (for stere lumber is of average price, is ed, all cluding steame $\$ 00$. The other outlays, in first-class cream vats, (or water-power), with fixtures all complete are ing a total of $\$ 1,400$. A great deal 0 , mak ery, etc., can sometimes be purcher ach a model creamery, planned and fitted up in butter-m with the best known methods of been kiaking. The plan and estimates have himself, furnished to us by Mr. Moyer efficient contractor has been revised by an creameries in different parts of the Provinoe, Mr. Moyer is perfectly competent to make plans and estimates, and we visited his Georgetown factory for the purpose of getting an illustration of his factory there, which is situated on the most suitable being shaded by trees on sides, and there is a stream which furnishes water power and pure, cool water pow purposes; but the building like that at the Model Farm, was not up to the times, not having been built by himself, so that Mr. Moyer gave us a new plan, correcting some mistakes which he had made in the erection of his other creameries. The illustration represents no built creamery but one that should be built by all who contemplate going
into butter farming into butter farming.
Mr. Moyer has been in the creamery business for a num ber of years. He left the farm and went into store hand, and other outlays, where durability, sub $\mid$ keeping, and it was the deplorable condition of stantiality and size are not of primary con- our butter, as handled by storekeepers, that very fair, can be materially lessened, so that a $\quad$ fired him into action for its amelioration., He very fair creamery can often be erected for less By reference to the following article it will be seen that Mr. M. Moyer, Georgetown, Ont., fur nished us these plans and estimates. At the Model Farm the building cost $\$ 3,000$; machinery, etc., $\$ 1,000$. The building is of brick but no creameryman will stake his reputation by saying that it is a model in any respect. and the Government and the country isgrace to should like to ask, on behalf of our farmers, how it is possible to stuff $\$ 4,000$ into antiquated concern.

Private vs. Government Enterprises in the Creamery Business.
At the annual meeting of the Western Dairy At the annual meeting of the Western Dairy-
men's Association, held in Stratford in January last, an important discussion took place with reference to the cost of creameries and creamery butter. The leaders in the discus sion were Prof. Brown, of the Model Farm, and Mr. M. Moyer. The latter gentleman asserted that a suitable building, with machin ery and fixtures all complete, could be erected for $\$ 1,000$ to $\$ 1,500$.
Prof. Brown. - We don't want shanties. The estimate made by the Prof. was $\$ 4,000$ and this was the original cost of the Mode Farm creamery. Many creamerymen rely upon us for accurate statements; we have of creameries, and we promised to to the cost required information in seasonable tims th
may be regarded as our leading pioneer in the modest scale, and educated him on a very farmers as he went along. He demonstrate his principles by going out amongst them handling their milk and cream in their own houses and before their own eyes, frequently also calling them together and lecturing to them. Moreover, he spent considerable time

fig. 3. - plan of upper floor.
and money in experimenting before their eyes, and then he adopted the method of making known the results of his investigations by pub lishing a paper and distributing it free amongst farmers all over the Province. His las practical and profitable than the Government rash which costs the country thousands of dollars.
The first prejudice he had to contend with was to persuade the farmers of the advantage
of submerged deep-setting, proving to them that the extra profits over the shallow-pan system would pay for the cans in three months, when the greater quantity and higher price of the butter were both taken into consideration. His first crude idea was to haul the milk to the factory, making oontracts for the milk at specified rates per gallon. This proved to wo a losing business ; for hauling twice a day loss very expensive, and the farmers suffered This gave rise to his system of cream gathering, algowing the farmers to do their own skimming in order that they might always have the skimmilk in a fresh condition. A difficulty then arose in that all farmers did not skim alik when he invented an atmors can skim alike if means of whish all farmers can skim alike, if they ohoose to do so
is evidence of fraud
Not only did Mr. Moyer demonstrate to the could be weeded out, but he made a successful effort to improve the reputation of Canadian butter in the English market. He sent an expert across the sea at his own expense, who sucoeeded largely in removing English prejudice against Canadian butter. He obtained the highest prises in the British markets, being 10 cents per pound higher than home-made butter, and Mr. Moyer regards the satisfaction of this victory as ample reward for all his pains. While he has been accomplishing al this, our Government has been quarrelling over the size of butter globules in the different fancy breeds. Which professorial of practical calls experimentargers can afford to wait until farmers. Our the hard times areir sort of work. That our Government has obtained top prices in the British market for its butter is true, but it had to resort to the contemptible device of coloring the butter-a fraud which Mr. Moyer has never stooped to perpetrate
Our main object in visiting Mr. Moyer was to ascortain what good the Government was doing for the creamery business.
Mr. Moyer.-Good!
"Hush, hush," said we, "don't be sarcastic. We want to hear the truth, and nothing but the truth, and let no political motives intervene."

Mr. Moyer. - Well you shall hear the truth, and with regard to political motives, let me say that I never cast a Conservative vote in my life. I woul ruin the business which I am so ardently endeavoring to build up. Prof. Brown, basing his calculations on a month's experience with 250 cows, attempts, in his annual report, to estimate the profits that would be de repord, from 500 cows for a whole season, and his balance sheet shows a clear profit of $\$ 3,420$. I defy any creamery man to make half these profits under average circumstances. This misleading estimate has poisoned the farmers against giving their cream to 1 and monopolies. By getting viciousagaine ine the creamery business, attempting to popularize the creamery business, the Government is depopularizle; it wants us to quisitnrial practice bus ness to build up its own;
expose our private and when I ask it for information I am snubbed,
just as you saw me "set upon" by Prof. Brown, at the Stratford Dairymen's Association, when I said that I could build a substantial cream ery all complete, having a capacity for 2,000 cows, for $\$ 1,000$ to $\$ 1,500$. What is the Gov ernment creamery for, if its officers will no furnish information when wanted
"Stop, not so fast," said we, "the good which the Government is doing in eduoating stu dents in the creamery business, outweighs an trifling errors it may have committed.
Mr. Moyer.-I take students too, and pay them all they are worth for their work. I show them the real practice, and teach them all the science they require, instead of a smattering bout butter globales, fancy peligres, eto. and a sort of practice which - they waininess. unlearn when they go into actual basiness.
It is true that we have clashed with Mr Moyer's views on the creamery business. On varions occasions we have shown the injustice done to come patrons by the enbic-inch system of dividing the profits ; but Mr. Moyer argues that creameries should be encouraged (1) be method of butter making, and (2) because there is a probability that the injustice will in time be removed. We only presented the facts, no having discused probabiiities; and with re gard to the improved method, we might saj we have laid it down as a general rule that it is better to abandon all encouragements than that enterprises should proceed on unsound principles. We should be glad to see these difficulties removed, and then we shall push he creamery system for all io worth. while we leave the reader Mr. Moyer's
-
Canadian Cherse boom.-September chee from Canada had preference over that made New York, says "The American Rural Home, Canada is unquestionably increasing its dairy products, and thus competing with New Yor frade. Mr. cures his cheese so as to be at its be forty-five days from date of its birth, and not at ninety days, as is the practice of the Canadian farmers. New York cheese is shipped too green, and does not stand the voyage as well a the rival product. He advises that fall cheese be cured more slowly, with more salt, or adop some other measures to make it keep better.

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Recent stock intelligence reports the death of two cows of "record" "fame. Princess II., whose record is said to have been 46 pound $12 \frac{1}{2}$ ounces of butter in seven days, is no more the has gone to join Mercedes, Echo, Jersey Belle and others which have become martyrs to he "record craze. Value II., anothe record celebrity, also died recently from the same cause. The man who will pay the price then feed her to death for the sake of a little vain now regarded as a public benefactor and a philanthropist. This may be the cheapes nethod of advertising, but no man in the sane possession of his faculties will purchase the off spring of these martyred heroines. When the history should cease.

Dairy Products at Annual Fairs. by prof. L. B. ARNOLD.
The dairyman's part at agricultural fairs is often one of idle curiosity from the unfortunate ircumstances which usually surround his olas products. To open a package of butter fo pspection by the moving columns of humanit ruin to the sensitive contents of the paokage. Butter will soon spoilif too openly exposed toeve pure air, but when allowed to come in contac with air polluted by tobacco smoke, with whic ools are wont to annoy public gatherings, and by odorous breaths and fetid emanations from persons perspiring from excitement and fatigue, it would be ruined in an hour. So batter i virtually kept hid at fairs, and is exhibited only hy name. On sone occasions it is dis played under glass, whit in mach more actory than gazing at an uncomely package and imagining that there is bite ber ne does not get mu them. So far as any improvement in the art of butter-making or any public benefit is con crned, the labor and expense bestowed upon but ter taken to agricultural fairs are thrown away. The lucky man who gets the prize is the only one benefited, and his chance is but that of a lottery. Betwixt favoritism and incompetenoy the bestowal of awards upon dairy products is involved in great uncertainty. There are bu few judges officiating at fairs who could go sver a dozen packages of butter or cheese an grade them twice alike, if they could not recog nize them by sight or number, but unless on can repeat his work he is not qualified for ma ing correct decision
Cheese is not as readily injured by exposure as butter, and hence may be exhibited oponly, hut this will give but a faint idea of merit an mitted to all interested, would work a ruin to the exhibits which none but the prize take the exhibits afford.
could
The obstacles in the way of profiting or en The obstaces the exhibitors or the majorit of visitors at fairs by an inspection of dairy products are so inherent in the products them selves that it is difficult to devise any satisfac tory mode of doing it, and it is seldom done Even the great international dairy fairs held in New York city in 1878-9, were almost total failures, so far as any good to the dairy publi was concerned.
There is, however, a possibility that compe tition in dairy products may be made useful to competitors at least. I have seen this done in a small way with gratifying success. The firs instance of the kind witnessed occurred at dairymen's convention in Chautauqua county 10 or'12 years ago, and dairyman of that county, The plan was sub stantially as follows: The competitors wer nade the judges of their own butter and heese. When in the progress of the conven fion the time arrived for passing upon the nerits of the butter and cheese offered, th :ompe! itors were seated on one side of the hall, and each was handed a plate, on which a com inittee had preyiously arranged by numbers sample of each exhibit of butter, some 15 or 2
in number. When each had made a careful examination of all the samples, he indicated his judgment by marking he preerred numas the greding as ho gralug extend and each an opportunity to compare all the samples, and for he could not distinguish it from the rest. When the examination was completed a teller When the examination was completed a teller acoordingly. This done, the successful competitors were publicly questioned in regard to their respective modes of producing milk and making butter or cheese, as the case might be, no that the whole convention could understand how the best butter and cheese competing were produced.
This novel mode of passing upon exhibits of butter and cheese was quite exciting to the competitors, and proved to be very satisfactory and correct, and furnished a profitable and inbre Foilly did the whe assem jolly interest when it became known that the jolly interest when it became known that the in the crowd had rated his own butter as the poorest in the lot, without the least suspicion poorest in the lot, without the least suspicion decision with some very decided remarks im pugning the good sense of the dairyman who did not know better than to offer such stuff where good butter only had any right to be. Evidently he had for the first time in his life soen his butter as others saw it. It was a capital way for mellowing down conceit, and others as well as he went home wiser and more modest, if not better mon.
The fact that little good results from competition in dairy goods at agricultural fairs, hould not prevent dairymen from attending such fairs. There are always other things in joresting to dairymen againt whor sion gained to pay for attendance. They furnish a social holiday needed for rest and recreation by the isolated occupants of dairy farms. Improvements in dairy furnishings generally find their way to such places, and also the latest devices in agricultural implements, concerning which the dairyman as well as the general farmer should keep himself thoroughly posted. More important still, faira generally, especially the larger ones, attract collections of improved dairy stock, which it pays dairymen to study and be familiar with. Let the fairs go on and be supported and encouraged, but the dairy department, unless in some way managed better than is now customary, might as well be dropped out along with horse racing an gambling.
The art of butter making 'will never reach perfection until we stop putting salt in the butter," says the "American Dairyman." It is a depraved taste that requires a salt taste in butter. The most critical
judges in the old country never think judges in the old country never think
of allowing s91t to come near the butter, and of allowing sol to come near the butter, and
after getting after getting *wustomed to it there is all the
difference between the two that there is bedifference between the two that there is be-
tween salt and fresh fish, flesh or other dried tween salt and fresh fish, flesh or other dried
or prepared food. The true epicure ting. It will be money in the dairyman's pocting. It will be money in the dairyman's
ket when salt is abandoned in the dairy.

## Mr. Lynch Defends Himself.

 Mr. W. H. Lynch has written us with refer ence to our remarks on his "Manual of Scieñ: tific Butter-Making for the Ontario Farmer," demanding British fair play. We never refuse such demands, and we only ask Canadian fairplay from those who insist upon monopolizing our columns with voluminous matter irrelevantto the points at issue. We are never guilty of to the points at issue.
prolixity in our attacks.
We mainly attacked the system of squandering public money in broadcasting agricultural literature amongst the farmers, especially that of doubtful utility. Mr. Lynch has come forward to exonerate himself, leaving the Governnent to shoulder the responsibility. When we expose objectionable measures, we feel that we have done our duty, the individuals who suffer heing of subordinate consequence.
The defence made by Mr. Lynch can be aithfully summed up as follows: That the Government, under Commissioner Wood, did commission him to prepare the mavual at an interview unsolicited on his (Lynch's) part, "weeks before any petition was thought of ;" that the book contained as much original matter as he "was engaged to prepare, or allower ime to prepare," the appenix (about 80 per tously ; that he did not bring any "pressure" upon the Government which "did not grant the encouragement petitioned for, but gave way to other influences, and committed itself to the policy of creameries ;" that Mr. Barré did not prove the manual to be as renresented in the advocate, but, finding a dearth of matter for legitimate criticism, he caused him, in some instances, to say the exact opposite of what he (Lynch) did say; that the Advocate had cheapened its columns by publishing some of his previous writings, and had more than once endorsed some of his principles ; that he gave the Government to understand that he was not n office-seeker.
Mr. Lynch asserts that he is "able to prove all these statements by documentary and other evidence We don't demand his evidence;
the Government is culpable whether his statements are true or false. It would be absurd to suppose that all the principles of butter-making espoused by Mr. Lynch are unsound ; we may have published some of his writings, and shall take pleasure in doing so again, if he can offer as something better than our regular contributors. We publish the soundest and most practical principles we can procure, never asking whether they come from friend or foe. Both
Mr. Lynch and Mr. Barré have committed Mr. Lynch and Mr. Barré have committed dairy purposes ; in this we disagree with both until these expenditures are asked by the armers, and produce more beneficial resulta han they have done ; and it would be impossiies on the principles of butter-making. We know that the Government did commit itself to educating (?) the farmers, both by the distribu tion of butter literature and in the establish ment of creameries ; for Mr. Lynch's manual was distributed and the Government did es. tablish a creamery at Guelph. We know, moreover, that Mr. Lynch's "scientific" manual is extremely unscientific, as his "original"
matter has to do with operations, not with
causes, and many of his statements, especially those with reference to temperature, are exceedingly indefinite, and are hence not scienific, and can be of no practical value.
In the appendix of the manual is found a atatement, clipped from a Toronto daily, to the effeet that Mr. Lynch came to Toronto fro the Eastern Townships (Quebec) for the pu . pose of interesting "influential people" in the question of butter improvement in Ontario, and that he exhibited samples of churns and other appliances in one of the corn exch nnge rooms, the efficiency of which had been proved by tion "signed by 54 leading men"mission merchants, editors lewrere, keepers clergymen literary ladies and rentle men. etc.. addressed to the Premier of Ontario, asking for Government aid. If such a petition had come from the farmers we would have raised no ohjection. What moved the citizens of Toronto to take such a deep and sudden in. terest in the dairy education of the farmers ? What gave rise to the necessity for a petition after the Government had commissioned Mr. Lrich to write his manual? These matters are past finding ont by independent journals, which are always on the alert to make all crookedness straight-none but confidential nolitical friends need apply-and for the pre-
sent we must leave our readers to draw their gent we must leave our readers to draw their own inference. If the Government did right in Toronto, as'prayed for in the petition, then Mr. Lynch lost a grand opportunity in evining truch lost a grand opportunity in evinaing
true patriotism by not constituting himself the acknowledged leader in so desirable an object acknowledged leader in so desirable an object
as the dairy education of our farmera. We as the dairy education of our farmera. We
should here add that the petition makes direot allusion to Mr. Lynch and his "new scientific butter-making utensils."
Nobody can raise any objection against his exhibiting his utensils in the corn exchange rooms-or on the markets, or in the streetsand his utensils may be as valuable as his manthem scientific butter-making which advertises them ; but this we do affirm that the Government is no authority on agricultural matters,
and is therefore liable to be humbugged by all agents and peddlers who choose to adopt the expediency of putting their wares on the market at the public expense, instead of honestly competing with their rivals who are able and willing to expan
of their goods.
The Dominion Government has been humbugged in the same way, and we should like to know if it has "commissioned" Mr. Lynch to prepare another batch of his scientiole pamphlets, or if certain other influential people
have prayed for the Government to squander more of the people's money to educate our farmers in the science of butter making.

Sir,-I hasten to comply with your unprecedented offer in Augist issue, and it affords me much satisfaction in extending the circula, tion of your valuable journal, the Farmer
Advocate. I find it interesting as well as profitable, and take pleasure in recommending it to my neighbors. I woald not like to be withy out it.

Reuben Gile, Smith's Falls, Ont,

## Stock.

## A Chatty Letter from the States

 by our chicago correspondent As predicted in last month's letter, the cattle As predicted in last month's letter, the cattle which were in the indian Territory alland were ordered to be removed, have all been and were ordered out without any serious disturbance. There were no bad effects felt in the catitu market on account of the enforced removal. This illustrates how alleged impossibilities can sometimes be overcome. Large delegations of cattlemen went to Washington and labored with the President to have him change his order, but when they found they had to go they seemed to forget their arguments, and proceeded to go.
Some very good fat cattle are coming this fall from the western ranges, but there are more than usual of the thin and medium fleshed kinds. To illustrate, woll ar $\$ 3.50$ while on the same day, in an adjoining pen, a lot of fat 1150 to 1269 lb , catadjo sold at $\$ 4,50$ to $\$ 5$. There has been much tie sold at $\$ 4.50$ to $\$$. failure of cattle on crowded ranges to get fat. It seems that the large increase of owners on the plains within the past year or so has been detrimental to the general good. The ranges have been crowded, and as owners seldom agree upon a time to gather their beeves, the cattle are kept in almost constant motion, and do not have time to accumulate fat. For instance, there are a dozen brands of cattle on one range. Part of the owners want to market their beeves early, some in the middle of the season, and others wish to hold until late, and accumulate upon their cattle as much fat as possible. Thered without disturbing all, the attle geing worried in the round-ups when they ald be allowed to peacefully take on they
flesh.

So long as the cattle in the west are compelled to run on unfenced government lands, this growing evil cannot be obviated. The this growing evil lathd that cattlemen can legally acquire from the government is 480 acres, and as it requires about 8 to 10 acres for an animal's annual subsistence, this amount of land is a mere drop in the bucket for a big cattle company. The President lately issued á very positive order, demanding the removal of all fences from government lands; there is now no way of obviating the commingling of various brands. As the laws now stand the cattlemen of the west are looked upon as mere intruders and surpen, a or individuals are bound to respect. If a squatter takes a notion to settle in the middle of a big cattle range, he can do so, and the cattlemen are obliged to yield. In this way there is a large amount of black-mailing business done by unprincipled men who go far out of their way to harass the stockmen.
The so-called hog cholera or swine plague was never so prevalent in the States as it is this year. There seems to be almost an epidemic in parts of the west. It is a notable fact that while last year the disorder was confined largely to the middle States, it is this year most
prevalent in the west, Illinois, Iowa, Missouri,

Kansas and Nebraska. There has been a senthe clarified atmosphere of the west, but this pet theory is effectually exploded.
Whatever this hog cholera is, it attacks pigs and shoats chiefly, and thousands have been swept away this year. One dealer, disposed to see good in all things, thinks that if there was not something to thin out the young hogs, they "would not be worth one cent a pound in the market." This is on the theory that there would be an overproduc
were successfully raised.
There is evidently something radically wroug in the treatment of growing and fattening hogs, They are not so finely bred, as a rule, as to have weakened constitutions, and the fault must be in the feeding. Pigs are forced on rich heating food almost from birth, and thousands of them are raised without ever having an opportunity to taste pure water. This notion that pigs will eat or drink anything and thrive is a mistaken one.
The lates. Illinois State Fair was a financial success. This, in view of the fact that the Wisconsin and Iowa exhibits were financial failures, owing to bad weather, is gratifying to the Illinois Board.
The display of live stock was a very creditable one; but the management, evidently tired of the usual wrangling and complaining, did not have any grand sweep-stakes in which the diferent ill, it may be a pretty good plan to let each breed stand on its own merits. In nearly every case where the Herefords and Shorthorns come into direct competition the judgment is biased ccording to the personal predilections of the judges. Every intelligent man has his fancy, and it is mighty hard for a man who personally prefers Shorthorns to see any superiority iu ther breeds, and vice versa.
There is more sicknêss among pigs this year than last, and it is chiefly in Iowa, Missouri, Kansas and Nebraska, while last year it was onfined largely to Indiana, Michigan and hio, says the "Drover's Journal."
no epidemic of the so-called hog cholera, and the health of the hogs in the country, taking the crop as a whole, is very good. There is omething very peculiar about this disorder which our best veterinarians do not seem to anderstand. The fact is, if our Bureau of nimal Industry folks who have been making uch foolish blunders in trying to find diseases mong catle, would ald they very important maler, intead of injury, the country
they have done.

It is always a good thing for every farmer' ousehold to have at hand a supply of liniment to be used in case of bruises or injuries, says the "Germantown Telegraph." The following recipe is for a liniment that under ordinary circumstances is warranted to be valuable for beast or man. It is beneficial in case of rheu atism, sprains, he human family, and for fistula, poll-evil, qua ammonia, 3 ounces; oil of hemlock, ounces; spirits turpentine, 1 ounce; oil' of cloves, 1 ounce; oil of tar, 1 ounce; spirits cam phor, 2 ounces; oil sassafras, 2 ounces. Apply
to affected parts.

## Gbarder and (S)rchard.

## Various Notes on Small Fruits.

 by w. w. hilborn. Another season has proved the Shaffer's Colossal the most valuable raspberry for the amateur, where only one variety is planted. It is perfectly hardy, most productive of any, and continues in bearing for a longer season than any other sort, but it is too dark in color for a good market sort.The Worden grape is now attracting more attention than any other black variety. It is larger cluster and berry, of somewhat better quality, and well worthy of a place in every gaiden, no matter how small.
This month is the time to plant currants, gooseberries, blackberries, raspberries and grapes. Farmers have more time to plant small fruits in the fall than in the spring, and if planted any time before the ground freezes, and a little mound of earth drawn up around each plant, and taken away again in spring, the plants will go through the winter without injury, and make a much better growth the first season. Plant well tested varieties. Most of the new varieties sold at high prices are not as good as many of the old standard sorts, and ost much more
The following varieties are very reliable, and can be planted with the assurance that if any
sorts can be grown, these will succeed : Cor. Rants, red-Raby Castle, Victoria and Fay's Prolific. Black-Lee's Prolific and Black Prolific. Black-Lee s Prope. White-White Grape. Gooseberries Naples. White-White Grape. Gooseberries
-Houghton, Downing and Smith's Improved. -Hoackberries-Snyder. Raspberries, redTurner and Cuthbert. Purple-Shaffer's Col ossal. Black-Tyler and Gregg. YellowCaroline. Grapes, black-Worden and Concord. Red-Delaware and Rodger's No. 9. White-Niagara, Lady and Jessica.
the american pomological society.
The twentieth biennial meeting of this society was held at Grand Rapids, Mich., Sept. th, 10th and 11th. The attendance was large, onsisting of many of the most distinguished orticulturists from al parts of the Union. It held no this continent. The show of fruit was in a seperate hall. Among the most notable displays of frait were 100 plates of pears by President Marshal P. Wilder ; 140 varieties of pears by Ellwanger \& Barry ; 100 plates wild fruits, nuts, etc., indigenous to Michigan, by Prof. Bailey, of Lansing. A number of plates of apples were on the table in perfect condition, after having been kept in cold storage two years. There was also a very interesting dis play of Southern fruits.
Many new varieties of grapes were on exhi bition. Perhaps the most promising for ou Canadian climate was the Ulster Prolific, being crild grape of the woods, of much better quality whild grape of the woods, of much better quailit cluster not quite so large; color, very dark purple. From all the information I could gather, I think it the most worthy of trial of any variety on exhibition for our climate. Michigan made a grand display of over one thousand plates of fruit.

There were a number of very valuable papers read, which will be published in their report. Marshal P. Wilder was elected President Patrick Barry, 1st Vice-President, and Charles W. Garfield, of Grand Rapids, Mich., Secre Mass., in 1887.

Suggestions for Amateur Fruit Growers.
by l. woolverton, arimsby, ont No. 1.
I purpose writing a series of concise papers for the benefit of the farmer and the amateu ruit grower.
It is very confusing for an inexperienced per son, when about to purchase trees and plants, to have placed before him a long catalogue of varieties, each one lauded for some excellent quality, and from such a list to select those best suited to his requirements.
The object of these papers will be in part to place before the novice in fruit culture such varieties only as are thoroughly tested, and table or market. A small fruit parden, properly selected varieties, will furnish the the with a daily supply of fresh fruit for the space of nearly three months, and how much more delicious such fruit is when freshly gathered from one's own bushes day by day, than when jammed about during a long journey and fur nished second hand! An orchard of well chosen kinds of fruit trees will yield an ample supply of the larger fruits for the remaining nine months of the year, and thus at no season need the home lack for an abundant supply of one of the most important and healthful articles of diet.
A further object, then, will be to encourage the planting of fruit gardens, at least for home use, in all parts of our Dominion, by pointing out, as far as posiblo, varielies in fruts that may sections.

## stra wberries.

There is no fruit which may be so successfully grown in almost every part of Canada as the strawberry. It will flourish luxuriantly in the north, because either artificially with sawdust, straw orted, either artificially with sawdust, straw Mr. Hickling, of Barrie, says the strawberry succeeds well in the Muskoka District, and Mr. A. A. Wright, of Renfrew, assures us that he has no trouble there in growing any variety he has yet tried, although the thermometer often registers more than $40^{\circ}$ below zero. Mr. Charles E. Brown, of Yarmouth, N. S., says: ""The strawberry, though late, attains a large size here, and under good cultivation yields large crops, giving more profit to the area planted than any other fruit;" while Mr. Whitcombe, of Moosejaw, Manitoba, tells us that in his garden strawberries have done remarkably well. Among the many excellent varieties of the shawberry we would recommend the following order of ripening : The Early Canada is valuable for its earl son, softer and not as good a bearer, but in southern Ontario, where it is desirable to have
an early berry to ship north, it is very import The to have a small proportion of this variety The Crescent is not much behind the Early passes the Wilsons, while it rivals, if not sur passes the Wilson in productiveness. On sandy able to prive the tre latter, being better the crop. Itisalsoe drouth, which so often ruin the Wilson, though slightly inforior in quality. Being pistillate, that is, having fown quaity tamens, it needs here and there or of Wil son or other kind with perfect blossoms, planted in the same patch, or near it.
The Wilson's Albany is still the most popular strawberry in Canada, in the north, south, east or west. On clay loam it is also the most desirable of all tried,varieties for main crop for market. No variety excels it for productive ness upon such soil, and with many people its tartness only sharpens the appetite for its con-
sumption. South of Lake Ontario it ripens sumption. South of Lake Ontario it ripens
about the middle of June, but north of that about the middle of June, but north of that The Manchester is the tirst of July or later. The Manchester is the most promising of all he new varieties. So far I prefer it to any specially for the table an purposes, and Wilson, and consequently should be most irable market berry to grow in northern ions for shipping south. It is in many respects a typical strawberry. It is of a bright straw color, and like the wild strawberry in flavor, only sweeter. All the berries are large and perfect in shape, and the whole berry ripens and colors in a remarkably uniform manner. The Sharpless, Triomphe and Jucunda are nore or less grown as fancy varieties for table use. The first is the largest, and succeeds occasionally very well on sand, if kept well thinned out, but if the berry is the least overripe it has a disagreeable taste. The other two are best suited to clay loam, and need the ighest cultivation.
The James Vick is an enormous bearer, but the fruit is often small and very imperfect in
form. form.
The
The best strawberry markets for all ordinary The great centres are of late so nearest home. that the shipper to them is often a loser. Dur ing nearly a whole week this summer strawberries were wholesaled in Toronto at four cents per quart, and one shipper found himself in debt to the express company on the heaviest day's shipment of the season. Hamilton market was worse, the price sinking so low that one day seven quarts were sold for 25 c .
The net proceeds" of the writer's strawberry crop during the last three years has been as follows: In 1883, an average of 12c. per qt.; in 1884, 8c., and in 1885,5c. What may be xpected from 1886 .
currants
This fruit succeeds the strawberry in the order of ripening, and cannot be left out of the is very hardy, and can be grown throu also the vast extent of country from Nova Scotis to Manitoba; indeed, Mr, Whitcombe, writing from Moosejaw, "ays. "Currants, writing grown here equal to any in Ontario."
The Red Cherry is the finest currant grown. If left till fully mature, the berries more re
arge, and on this account are very littlo rouble to stém. This variety succeeds best on lay loam. On sand it is apt to make too much wood, while on heavier soil well cultirated and enriched, it bears enormous crops Fay's Prolific is perhaps the most profitable currant to grow for market. It is a greater
bearer than the Cherry, and the stems are bearer than the Cherry, and the stems are longer, so that it is more easily gathered, but The White Grape is the large.
and it is very desirable in the home carrant, Nothing presents a more attractive ape garden. Nothing presents a more attractive appearance
on the tea table than a glass dish with several compartments, each filled with a different colored fruit. But it is useless to grow the white currant for market, because they are less profitable than the red.
The Black Naples is the most reliable variety of black currants that has yet been thoroughly tried. With proper cultivation and pruning, and on good, rich clay loam, or on sand if not too light, good paying crops may be secured; but the expense of picking is double that for the red, and as the yield per acre is much less than that of the red, it must necessarily bring at least one-third more per lb . in the market to make it profitable.
Lee's Prolific has been introduced with a great flourish of trumpets, just as all new fruits are now-a-days heralded, and then sold at an
extravagant price, but the difference between it and the Black Naples is barely observable.
The best markets for the currant are usually the large cities, where so many are used by confectioners and fruit preserving companies; but such quantities have been grown of late that there is a very small profit in growing them for shipping. During the past season the prevailing price has been 60. per qt. for red, and from 8c. to 10 c . per qt. for black currants in the Toronto fruit market.
According to an Indian authority who writes an interesting letter on the subject to the St. Paul Press, wheat growing in India is annually rate of incresed production maintained, it will pot be and export be the demand of England will be principall supplied from her Indian empire, while other European countries will find their deficit re plenished from the same source. The Indian producer, however, in his competition with America will be handicapped first by the qual. ity of his wheat, and second by the cost of pro duction. Indian wheat is soft wheat, and can never hope to take the place now being assum ed by the Manitoba hard wheat, the flour from which has been tested and has been proven to be superior for baking purposes to any other. Even should the Indian wheat be largely used It would have to be mixed with some har American variety. The cost of producing whea India and shippig, to Eagland is computed aid down in bondon that price can be digust of Conadian farmers that price is bein beaten now from this side of the water. difficult to say how, in view of the growth in the competition, wheat-growers are going to fare in the near future; but farmeri cannot do better than resolve not to oarry all their egge in one basket.

## Roultry.

The Fall of the Year. bi c. c. JaRvis. The fall of the year is the best time for beeinners to commence the business of fowl-raising, for the reason that they can at no other cime of the year flhout paying fancy prices. In operate win, who those who have wintered a look of young fowls prefer to keep them for lacing and hatching purposes, unless they can get higher prices for their birds than at this season of the year. It is, therefore, economy to procure the birds in the fall. They can be bought at lower figures then, and the purchase has the whole benefit of their egg product in the early spring months, when he desires to be gin to hatch a few broods in succession. If h waits till spring he may readily procure egg for a beginning ; but there is the risk of delay, of transportation, of the cold weather that may chill them in transit; while with the fowls fo providing eggs in your own hands you can much bet in phis be able to increase and ing, and in without additional exmultipl.
-
December is ordinarily one of the roughest months in the year for poultry men. Winter wind fairly set in before the loltry raisers who have again, and breeders or pouitry negle the and the pecesery precautions in time to have takteir fowl stock quarters comfortable at this rude time of the year. The hen-house should now be cleaned and arrangements made for their thorough ventilation hereafter. The old nests should all have been emptied and washed inside with kerosene, to destroy any vestige of lurking vermin that may have accumulated this fall. The roosts must be similarly cleaned, and every part of the interior should be carefully seen to, to prevent the generating of this pest, which will cause so mach annoy ance to the birda when they are of necessity housed for the winter.
Do not attempt to carry over more fowls than your houses will reasonably accommodate. The young stock now well matured should be dis posed of at once, if your yards are overstocked. It is better to fatten and mar them for other you have not a rea s thll spring, especipurposes, ally the young surplus cockerels. Good pulleta will pay you for horbor too many in limited spring, if you winter. Lay in your vegetables for a full supply of green food. Bear in mind that as soon as the snow flies your fowls must be artificially fed in this respect, and however well you may feed them on grains, that they must have "green feed" as well to keep them in constant good thrift. We conceive this indulgence of paramount importance in December and January - more particularly as a prime necessity for breeding fowls. In getting ready for winter don't forget to provide dust boxes. They may be placed inside of the house and
near the window where the fowls can lie in the
sun and enjoy the bath. This will help to keep them healthy and contented during their winter confinement.
If thus fed and warmly houised, almost any kind of hens will give you eggs, more or less,
in cold weather. Old fowls will commence to lay in winter, when properly cared for, several weeks earlier than when they are neglected and allowed to shift for themselves comparatively. From now till April the stock should be fully fed. Poultry require more and heartier feeding in cold than in warm weather. Look out for roup and colds this month. Give your birds fresh water daily, and once or twice a week drop into the drinking vessel a little cayenne pepper. This is an excellent tonic, and it is warming to the crop in severe weather, but you must not use it too plentifully. Corn is the best evening thod, as it keeps up a comfortable heat during the night. Give soft food the first thing in the morning.
Do not leave the cracks open in your poultry department ; nail lath or other strips ove them now. Don't leave the windows open on cold days; if you do you will most likely have to pay for it in the loss of your fowls.
podetry at the provingial exhibition.
A very fine collection of poultry was exhibited at the Provincial Show held at London last month. The Superintendent of the poultry department, Mr. McNeil, and his assistants, of the poultry on exhibition. The coops were well arranged, and kept very clean during the show. Owing to the inclemency of the weather on Tuesday the judges did not commence to judge until about ten o'clook the next day There were a great many complaining outsid the poultry building of not being able to gain admission to the poultry department during the entire day, and the same complaints made again on Thursday, as the judges did not com plete their duties until Thursday afternoon, keeping the builaing cosed alm. I think the jud ges would have gotover their work much faster if they had paired off, and two of them judged the old class and two the young. This has invariably been the way the judging has heretofore been done at the Provincial Exhibition. I believe the one-man judge system gives the best satisfaction, and a show can be divided into several classes, and a show judged in one quarter of the time. This system has been adopted by all the poultry exhibitions held in Canada and the United States, and found to be the proper system of judging.
The building in which the poultry was exibited we find very dark and very hard for he judges, especialy in cloudy weather, to he exhibitors. The awards at this show heemed to give pretty general satisfaction. The light mistakes that did occur may be atributed, as I mentioned before, to the building not being sufficiently lighted.

Dry sait is as good as any material that can be used for preserving eggs. Pack in boxes, prevent the yolks from setting to the inner sides of the shells.

## Weferinarg.

## Foot Disease.

It may be of some interest to casually review a few of the many foot diseases, with remedies applicable in case of emergency, says a eteriaary in the Horseshoer's Journal. For corns : do not leave the shoe on too long ; use no shoeing a wide web and heavy shoe. Re ove the bearing slightly from the quarter af保, trim the fungus parts at the seat of the rn, and at each shoeing use a caustic, and ing of tincture of arnica.
For thrush : remove the ragged edges, apply nce a day carbolic acid one ounce, tincture o loos twp qunces, water one quart, and keep a pleaget of tow. For quarter crack: keep heavy pare all the foot will allow, if the toe is long horten, if the heels are high lower. Apply a timulant to the coronary band ; in bad case put a plate across the orack and fasten with mall screws or one or two clinch nails, until grown down. If you happen to prick in shoe ing, immediately remove the nail and apply ar nica. In case of nails picked up on the road, enlarge the crifice and apply arnica two or thre times a day until cured. In case of cuts from over-reaching calks, etc., on or around the cor onary band, remove ragged edges with th knife, and if the wound is serious stitch it up and apply the carbolic acid solution recom mendea for thrush. It is well in case of injury to the foot to have the animal laid up for rest, nore espertly a mand in the fill re sult fatelly or leave the animal with an ugly looking blemish. 'In this connection I will give the treatment which resulted in the cure of weak feet very badly contracted and affected with corns; the treatment being entirely in the man ner of shoeing. The horse was used on the road and over-reached, frequently pulling off the shces. He had been shod by a number of smiths, with a view of remedying e defest, but all to no purpose, the foot grr ring worse until the animal was almost wort' css for any purpose, the foot so weakened it would scarce ly grow at all. I was consulted by the owner, who was necessarily anxious to remedy the evil I replied that I thought a cure possible and ao cordingly took charge of the case. The sole houtside of the very thin bitte, dry hard. In the first plese I mado a very heav shoe, about 36 ounces, for the foot I com menced to dress the foot, paring the sole until it would yield to strong pressure of the thumb then put on the shoe, using No. 7 Northwes ern nails, two on inside and three on outside of shoe, and the foot improved immediately, and the shoe remained in position without bein pulled off. He has since been shod around and has a good foot.

[^0] Cavendish, P. E

## Whe ねpiarp.

## Wintering.

## $\mathbf{y}$ G. b. Jones.

Before commencing this subject, I wish to tell my readers that my article for last month on "Fall Feeding" was written and mailed in proper time, but has not reached the ADVocate
office. Its loss was not discovered till too late ofore. Inother.
for another.
As I have already stated; winter preparations should be commenced in July. Suppose this to have been done, and our bees to be ready for winter quarters, our next step is to pack them. I shall confine myself to desicrib. ing the clamp system, and refer any who wish to cellar or house their bees to my communication in last November's number of the Advooate for directions.
The clamp is simply a box with a sloping roof, of ufficient size to contain the number of hives to be wintered in it, and twelve or fourteen inches of straw packing about the whole. The joints should be matched or battened, and the roof of sufficient slant to shed rain and melted snow, and tight enough to prevent leakage. An inner porch or vestibule should be constructed in front of the hive entrances, whose bottom should be on lith whose botrom should be on a level whe fhe platiorm of the hive. It should run the full door hinged to its upper front edge, and so arranged that it may be either fastened up against the front wall or let down so as to close the porch in. Entrances should be eut opposite those of the hives and the same length, and passage ways constructed from the hives to the porch, but shut off from each other. The clamp should face the east, or if it be a double one, east and west.
To pack the bees, bring them together, as directed for spring doubling, into a row where the clamp is to stand, and face them properly; and the first day they don't fly, after they have marked their location, set them into the clamp and pack up to within an inch of the top of the lower story. As soon as the bees warm day, examine them carefully and decide just how few combs they can be crowded upon, removing those which contain no brood and least honey until these are left. Place the releast honey until these are left. Place the re-
maining combs all towards one side, and shut off the vacant space by a division board. Place three or four pieces of atick about an inch in diameter, or corn cobs, across the top bars of the brood frames at equal distances, and over the whole place a quilt of cheese cloth, and upon this the summer quilt. If the bees have not now twenty-five pounds of feed left, place one of the removed combs into the vacant space beyond the division board, and raise this half an inch from the bottom. Place another comb upon its face upon the quilt, whose corner has been turned back to make a passage for the bees to and from the comb. Supply combs till there is sufficient honey with the bees, and then close down th por a as anmer but leave the hive covers off
Note.-This clamping should be done
once. If short of stores the beess should be fed
without $a$ without a moment's. delay. To feed: Make a cotton duck bag to hang in the space behind the division board, and to close at the top. Fill it with a syrup of two pounds of granulated sugar to one pound of water, brought to a boil and allowed to cool. Place it in the hive till empty ; repeat as often as necessary.
tion from winds and snow by means of the porch door and plenty of ventilation. day the bees fly during the winter clean the dead ones from the bottom board with a long stiff wire having a crook on one end.

## Sheaves from our Gleaner.

 The "Michigan Farmer" speaks thus confiThere is no the fure of the wool trade bound to advance, A Michigan dealer told that he never saw the clip picked up closer in this State than it has been this season. Those who have wool, he said, refused to put a price on it. He intended buying a good deal more than he did, and is now feeling like kicking himself because he did not. One dealer in $\mathrm{D}_{\mathrm{B}}$ troit, quite able to hold it for a year, if necessary, has about a million and a half sary, has about a million and a half pounds
stored in his warehouse. He thinks it a good stored in his warehouse. He thinks it a good
investment, as he can sell at an advance of 4 c . over what he paid for it.
The "Farmer's Review" says: "Pear blight is the source of much annoyance to fruit-grow ers. Of late years it has been recommended to seed down a pear orchard to grass as a preven tive of blight." The editor of the "German town Telegraph" says : "We never had a tree to blight in grass, though they were of all ages, ty-five, and of about ten varieties, while scarce ty-five, and of about ten varieties, while scarce more by blight in cultivated ground." Wo first saw grass mentioned as a preventive of blight in our columns in May, 1884, and more fully by T. V. Munson, of Denison, Texas, in our June number of last year. We are glad to see that the information we gave our readers at that time has been so fully wrought out by the experience of so many practical growers. We seldom advance new theories, and should no
chen have done so, had it not been so forcibly then have du by repeated observation of the ad vantage of the plan to which we gave circula tion.-[Farm and Garden
How to Keer Cider Swert. - Pure sweet cider that is arrested in the process of fermentation before it becomes acetic acid or even al cohol, and with carbonic acia gas worked out "Farm, Field and Fireside" reverages. Th Farm, cientifo method of treating cider to preserve its sweetness: When the saccha rine matters by fermentation are being converted into alcohol, if a benttube be inserted air tight into the bung, with the other end into a pail of water, to allow the carbonic acid gas evolved to pass off without admitting any air into the barrel, a beverage will be obtained that is a fit nectar for the gods. A handy way is to fill your cask nearly up to the wooden faucet when
the cask is rolled so the bung is down. Get a common rub ther faucet, with the other end in
the plug in the pail. Then turn the plug so that the cider can have communication with the pail. After the wa
away.
©orrespondence.
Notion ro Corkespondenyss. -1. Please write on one side of the papar only. 2. Give full name, Post-0.to and Provinoe, not necoessarily for publioasiin, bit ai suarantee of good faith and to enable us to answer by
maill when, for any reason, that course seems destrable tian answer is specially requasted by mail, a stamp mus be enclosed. Unless of general interest, no queetions wil be answered through the ADvoastr, as our space is very
limited. 3. Do not expeot anonymous communication mited 3. Do not expoet/anonymous communication
to be notioed. 4. Matter for publloation should be narked "Printers' MS." on the cover, the ends being open, in which oase the postage will only be 10 per unces. 5. Non-subscribers should not expect their com
nunications to be noticed. 6. No questions will bion nuncations to be notiocd. 6. No questions will be
answered exoept those pertaining purely to agriculture Vr agricultural matters.
Voluntary oorrrespondence containing useful and season-
abl intormation so ioited, and if suitable, will be liberally paid for. No notioe taken of anonymous corrospona once. We do not return rejeoted communioations. Correspondents wanting reliable information relating
to diseases of stook must not only given the symptoms cully as possible, but also how the animal has beon fod and otherwise treated or managed. In case of suepplicion o hereditary diseases, it is uecossary also to state whethe rit not the ancestors of the affeoted
disease or any predisposition to it

## In asking questions relating to

Co desoribe the nature of the soil on which the in tender nanures are to be applied ; also the nature of the crop. We do not hold ourselves responsible for the views of
c.rreespondents.

Beer and Butter Breeds. -1 drop you a card to




 [Tha Holistein is is noted for quantity of milk, but the percentage of be iner is usualy low, although there is
great difference in individuals of the breed. of oll the dairy breeds the Holstein is the best for general parposees, We no oow or breed can be first-olass in all dopartmenta. We do not, as a rule, recommend farmers to purchase
general purpose oattle. Hoisteins are best suited to tarmers who sell their milk to oh ceege tactoifes. They are very hardy, and would suit your climate very weil. The Jerses is the best buttor maker, buo she is no beefor, an
not very hardy. If you want to makk a not very hardy. If you want to make a apooialty of
butter-making, you should for the prosent seleot the bee uatives you can find und improve them hy seleotion, me Chere is as yet littil known as to the real morits of the
respective breeds ; but if your natives are not best respective breeds; but if your natives are not beefy
enough to suit you, you may iutroduce some Shorthorin hood of the Bates or Cruickshank strain. By consulting our "Breeders' Directory" on the last page of the Abvo ATB, you will find the names of the most reliable breod
ars. You can ascertain the price of a bull by writing to ors. You can ascortain the price of a bul
breeders who advertiee in the ADvocaty.]
Thlk About the North west.-Wo have received Cor pubioioation the following private lettor written by Albert), and addressed to a friend of his in Toronto. As trives private advice to a triend, the acouravy of the in dormation may be reliod on, and many of our readers will have an opportunity of comparing it with the Northwoef
immigration literature that has beeen gaattered all over the world: "Yours came to hand in time to have been
answered
by last mall, but 1 was oumped out on the


 and



















 ted



clanders tu ciuter



## [Glan

Farmers, Clubs-Shorihorn Milkers,--Acting,
the advice given in the Adocar tome time siice, we, in February last, organized a Farmers' Club in school
Section No 8 , Sect Club with Dawn, known as the North Dawn Farm-
orrs
Prembers, John Small being elected




 Shorthorn bull. Now here we want a little advice. 1 .
Would it it better tor ur to get an animal with or with-
out a pedigree?

 Triser who, you can recommend as an upight honor-
abeneman, one whom we can trust to send us what we
want. - , H, Dawn, Ont. able man, one whom we che
want.- J., Dawn, Ont.
IWe ane peoge to
IWe are pleased to hear from the Secretary of this Club, and ized in the same, way. It will afford us great pleasure to aid them in every possible manner. There is a yood deal of humbug about the pedigree businees, it being to the intereet of speculators to attach more value to it than
it is worth, althoubh there is considerable risk in get ling a it is worth, althou,h here is considerable risk in get ting a
bull without a pedigree.. Individual merit must go with it, otherwise the pedigree is worse than useless; for then the weak points are sure to be transmitted, while they gree. You may attend some of the leading shows and
select an animal upon its merits, but atock fed for pizes are apt to be useless, and many of our best stock men do
not show at all. The names of our most relible not show at all. The names of our most reliable breed
will be tcund by consuutting our "Breeders' Disectory"
on the last page of the ADVocurs and our advertising
column, tow whom you may write; butif there is a mem-
ber rit bay ycu to send him out among the breeders and let him select a good pedigreed bull, but not an expensive one. Let him also examine 'he ancestors and the offspring of the bull. Firteen or twenty dollars spent in this way in the satiefaction of knowing that you have made the best possible bargain. See also that the breeder does not pamper his stock or raise them too tenderly. MidGet a bu
blood.]
T-necked Horses..-Would you kindly publish in your
 rest, and how can you raise tha neck after it has become
hollow. I have a thiee--year-old colt affected. [Many horses have become U-necked by being over-
worked in the harness while too voung remedy, but by keeping your colt in good condition his appearance will be greatly improved.]

Swnollen Legs. - Will you please give me some in-
formation as to what to do for my horee He mevls badly on the hind lifgs when he stands in the stable-one
worre than the other. It hase been coming on him for
the e the last
Ont.
OGive
[Give a purgative bell 10 dee 10 . n'ght give 1 drachm saltpetre and 2 drachms sulphur in condition is frequently caused by neglect in keeping the legs clean, althourh it sometimes originates in im
food, and some breeds have a predisposition to it.]



 [roubled with them. - L. Q C., Mill ward, Alta.
[1. Bathe the swelling with warm water and apply a mild ammoniacal liniment. Give also a light purgative
drench. and every drench. and every erening put a drachm of saltpetre in
feed. These remedies can be procured at any drug store \%. Scarify the swelling with a lancet, and give iodide of 2. Scarify the swelling with a lancet, and give
potassium in drachm doses every night in feed.

Orchard Grass- Quack Grass. - I. Does orchard
grase make good pasture for cows?
2
 [1. Orchard grass makes capital pastu' e for oows; it starts eather grass. 2. All depends upon the season. Grases
ond are usually sown in the fall and clovers in the spring.
3 Various modes of destruction heve 3 Various modes of destruction have proved succeseful.
The main object is to keep leaves from forming above The main object is to keep leaves rom forming above
ground until the roots have perished, and the best and cheapest way of doing so depends upon the quantity of
grass and the nature of the soil. It has often been effectually exterminated by planting a root or corn crop
and keeping the ground pertectly clean; but in bad cases a more effectual way will be to plow the land deep in spring, stir the surface once a week throughout the sumdepth as in the spring; the next season a root or corn depth as in the spring; the next season a root or corn
crop should be planted, followed by clear cultivation.]

 Lhey be prevented? 2 . Cur cattle get very lous, while
stabbed in winter what is the best remedy?
3. We have
and
 [1. You will fnd full particulars about the warble fly
in our isuue of last Ma5. These rubs are irritating to in our issue of ast May. These grubs are irritating to
cows and no reduce the flow of milk, and the hides in which grub holes are found are depreciated in value. The grubs should be destroyed by puncturing the wound
by a hot wire or needle. If allowed to escape they will by a hot wire or needle. If allowed to escape they will
turn into flieg and injure the cattie the next season. 2 . There are numerous remediés, but a strong solution of tobacoo wa er is usually the most convenient, being care-
ful not to apply it all over the body at one time. 8. Clip
 f-W. H. Y., Mount Forest, ont.
[For euring hops a special building is required con-
talining a furnace being in sympathy with the extent of the hop-fild. The stove-room, with stone, brick, or plastered walls, 00 room isplacoed. The ceiling of the store-room, or rather the floor of the drying-room, is constructed, as follows:
Joists are laid as in other buildings, and wooden slatg $1 \times 2$ inches placed across on edge, $2 \downarrow$ inches apart. A lxi inches placed across on edge, $2 \frac{2}{2}$ inches apart. $A$
flax or hempen carpet, loosely woven (leaving the spaces hax or hempen carpet, loosely woven (leaving the spaces
between the threads about one-sixteenth of an inch apart, so as to allow the air to pass through freely). is
spread over theslats. On this the hops are placed for drying, and, when dry, they are removed into the storeroom, which occupies an adjoining part of the building. The hope should be ripe before packing, but it the
plantation is large and the laborers tewe the pickigg may commence a little earlier, that is, when the seeds commence to harden. When the hop is ripe, the seed lis hard and of a purple color; but it soon afterwards turns brown, when the quality becomes depreciated, and the
weight lightened by the dropping out of the weight inghnitive to trost, and it should be avoided by
Hops are sensit every possible means.]

Stock 2Notes.
Constipation kills a great many hogs, says col. Curtis. It takes the folic. It is not agi. demic, but the same causes which will make sick one hog, or cause it to die, may also affect
more, so that the diseases have the a ppearance more, so that the diseases have the appearance
of an epidemic, whereas each case rested on the of an epidemic, whereas each case rested on the
same violation of nature's laws. I have no
doubt that hogs have plearisy as a result of doubt
colds.
President Delano says an effort may be made to knock off the protection of wool at the next Congress, and he wants the names and post of.
fice address of all the officers of all State and county associations and also the nam State and office address of all wool growers in each Stste who desire information on this subject-the object being todistribute from time to timeamong such persons, information calculated to keep
wool growers informed as to the progress of all wool growers informed as to the progress of all
efforts affecting their interests. Send namesto efforts afecting their interests. Send namesto
C. Delano, care of Edward Young, No. 119
Maryland avenue, N. E. Washington, D. C.

The result of the judging in the "group con. tests" at the recent prominent English shows subject a correspondent of the Chamber of Agriculture Journal, London, says: "'The most important stock incident of the Bath and West of England show was, no doubt, the triumph of the Herefords in the breed family class, open
to any breed, and the throwing So any breed, and which had in it Mr. William
Hhorthorn group, Self Handey's celebrated bulls; Hovingham and Self Esteem 2nd. These had, with a four
months' calf called Royal Hovingham similar contest at Waltham Abbey the preceding week, and conquered Mr. Price's group of
animals which at Brighton wer animals which at brighton were elevated into
the position of taking first prize. Here then
we her the position of taking first prize. Here, then,
we have another instance of those singular re-
versals by different bres. versals by different branches of show-yard judges which make our system of judging so
much a farce. The anomaly becomes all the more singular from a group of Sussex cattle more singular from a group of Sussex cattle
having the second prize, and a group of Devons
coming in for reserve, while the Shorthorns coming in for reserve, while the Shorthorns
which were first at Waltham Abbey, have no
notice taken of them whatever. Both the Sussex and Devon gioups were certainly very
deserving, and headed by well known which have taken several prizes, including Royal ones."

The Sousehold.

## How to Furnish Rooms

 Rooms belonging to rich and cultivated amatures, are generally either over furnished or under-furnished. The objects de virtu, which have been collected at such pains and cost, because they are the fashion, have little reason to be where they are found, however beautiful they may be. They crowd the house till it looks like a curiosity shop; or else they are frugally scattered with a palpable aim to seem select, and their fewness and goodness carry a sort of self consciousness and affection withthem. them.
Now, when we enter a room, the first feeling ought to be, "how comfortable !" Then we glance quickly arcund to dis over why. and it should be little. The art is to conceal art, and when the impression is that of hyper-refinement, just as when it is that of depletion, or of conspicuous wealth, we may be sure the room is not perfect. Directly affection enters, beanty decamps. A room should be treated, as much as passible, as picture. In a picture, monotonous angels, as in panelled walls, would be judiciously broken by the shrewd introduction of some bracket, helf or plate. Yet, most people still enunciate the angularity of panels, by stretching square pictures in the midale of each. If the panel s of good oak, let us now and then see its fine fabric, unspotted by hanging things. But be ale withel ion bare, do not leave all the panels without ornament. Suspend a hand the lines a lit to hock to the eye or place some all pagreeable o as to serve the same purpe. But plant ooung trees and bushes are no planta nough used and appreciated even by thost who love ff ,wers.
Beauty in dress, beauty in decoration, like beauty in archite ture, largely rest upon character -the human soul within, about, behind . Individuality supplies the interest, as in picture. Harmony, like a charitable mood, how as hard to find as genuine charity. To find a beautiful room, or a beautiful costume, is to ind a human soul, for the heart and brain hine through tint and fold. Henoe, how needful that a pure mind and a genial soul should e clothed about with what is individual and enuinely their own, rather than with some or itself an alien languem, which may speal

## Celery for Rheumatism

Among the thousand and one "sure cures" rrheumatism, the use of celery has had its run of pupulatity; and it has at least this to "bond it, that, if it does no good, it is not and whoke, celery being a most palatable German writere article of diet. A recent condition of its thays stress upon cooking a I have had a severe rhoumatism, and was attack of inflammatory by a soup made of the stalks and roots time ery; therefore I desire to make this of celremedy known through the columns of your paper, for the benefit of all suffering from gout
or rheumatism of any form. . . . The fact that it is always put on the table raw prevents its therapeutic powers from being known. The celery should be cut into bits, boiled in water Serve warm the water drank by the patient, the painful with pieces of toasted bread, and the declaration of a physician who has again and agaia tried the experiment, and with uniform success. At least two-thirds of the cases named "heart-disease" are ascribed to rhenma tism, and its agonizing ally, gout. Small-pox, so much dreaded, is not half so destructive a rheumatism, which, it is maintained by many physicians, can be prevented by obeying nature's laws in diet. He:e, in Germany, we poil the roots and $s^{\text {a alks, as }}$ the root is the principal with part of it, and afterwards eat it as a immediate benefit the I received such the rheumatic sufferers know of it

## Apple Jelly.

The manufacture of apple jelly is simple enough; proceed as follows :-Take any quan pick out cooking apples, wash them and copper, tin decayed parts, then slice them in a one-third larger tharcelain lined boiler, and apples; next cover them with water half an nch higher than the apples; now place them over a good fire. The boiler is best raised a ittle, or a false bottom on it filled with water o prevent burning. Bring the whole to a boil, constantly stirring. When it begins to thicken juice through sala, jelly like, pass the juspended above another bettle, it drain of its own aceord without pressing. When all the juice hes por through return it to your bettle massuring it and to every pint of juice allow from eight to welve ounces of powdered sugar, according to he sweetness of the apple-the more sugar you use the quicker it will jelly. Boil this until by taking a little and pla ing it on a plate in a cool place it will form a jelly, then remove it from the fire and pour it into your jars, \&c. When cold place paper right on the jelly, passing the paper through whites of egg or gelatine, hus rendering it impervious to air ; next cover he top with skin or good oiled wax paper, eeing it fits well, so as to exclude a.ll air. -[Confectioner.
A French chemhist asserts that it is the nechanical state which makes new bread less digestible than old; the former is so soft, elastic and glutinous in all its parts that ordinary mas tication fails to reduce it to a s sfficient digestble condition. In the course of some experients in this direction a circular loaf, twelve ken from an oven heated to $240^{\circ}$ Reaumur, and a thermometer forced into it three inches. he thermometer indicated 207.5 Fahr. The loaf was then taken to a room, the temperature of which was $66^{\circ}$ Fahr., and found to eigh $7 \frac{1}{2}$ lbs; in twenty-four hours the temerature of the loaf fell to 66 , and in thirtyix to $635^{\circ}$. In the first forty-eight hours it days the loaf was again put in the Ater six when the thermometer hed indicat that ita
emperature had risen to $156^{\circ} \mathrm{Fahr}$, it was cut open and found to be fresh, and to possess hesame qualities asifithad been taken out of the in weight ime, but it had lost twelve ource bread with similar results.

## How to Sleep.

Hzalth and comfort depend very much on at tention to matters that to some seem very trivial they did not sleep well, that they complain that with horrible dreams, and awoke in the morning weary and nervous. Inquiries as to diet, exercise and other essentials of health, have often failed to reveal anything that could account for these unfavorable conditions.
It is not well in these cases to limit our in vestigations to the routine of a day; but we should inquire at what hour the patient goes to bed, what he thinks about usually, and most particularly what position he places himself in to invite sleep? If he lies on his back with his hand over his head, there will be a half-con reathing to relin whe chest, with dinoult The air causes dryness, and than snoring will begin In the meantime the pressure of the 1 begin the large artery whose course italong the inner portion of the ba kbone, impedes the aireulation of the blood, producing discomfort which mani ests itself in horrid dreams. Thus the whole night is passed in a disturbed sleep, and perhap many nights pass without one of refreshing seep. The most unwise course under such cir cumstances would be to resort to the use of pium or any other drug. The ranks of the ictims of this unfortunate habit are recruited mainly from such cases as we have described. th wondertul what control an individual can et over himself if he tries. There is no reaso hy a person cannot lie upon his side instead of inen he will not his ani arms down will not hecome dry, ueither will to shroat have bad dreams. But often he can't help thinking about his business, and his thouyhts will run on for hours. This is also a habit that may be broken up. Have the will to put aside your thoughts, and in time you will have the power to do so.
We do not say that there are not other causea that habitually interfere with sound sleep, but we believe there is a remedy for each diffusulty which may be found by seeking for it. - [Hall's Journal of Health.

## A Missed Opportunity.

When the Duchess of Edinburgh was in Paria the other day, shopping on her own account, one evening quite late she arrived at the esbody was to a celebrated couturiere. Everyaway, saying her mistress had retired for the night. Next morning the bonne reported that a "Mme. d'Edinborg" had called late, and that she had refused to admit her. "Do you know who it is you have treated thus?" asked her mistress. "That was the daughter of the Czar of Rusian, and she is the wife of a son of the Que"n of Egland. "Tiens"" replied the bonne, greatly exercised at her lost opportunity ; "and

Fiamily Orircle.

## THAT SUMMER AT RICHFIELD.

Mrn Hall-my Conidn Fanny-and i, ant oontentedly,





"I Thopethent turned out woll."





















 the attraction was mutual somet ing in ond teem













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Miss Malony on the Heathen Chince.
Och! don't be talkin'. Is it howld on, ye say? An' didn't I howld on till the heart av that thin that you could clutch me wid yer two hands. To think o' me toilin' like a nagur for the six years I've been in Amerikay-bad luck to the day I ever left the owld counthryto be bate by the likes o' them! (faix I'll sit down when I'm ready, so I will, Ann Ryan, an' ye'd better be lisnin' than drawin' your re marks; an' is it myself, with five good charac ters from respectable places, would be herdin wid the haythens? The saints forgive me but I'd be buried alive sooner'n put up wid it a day longer. Sure an' I was the granehorn not to be lavin' at onst when the missus kim into the kitchen wid her palaver about the new waiter man which was brought out from Californy, "He'll be here the night," says she, "and it's mysell tors and 'looking off '"Sure an' its little Ill hin oor interfare wid him nor any other "" I, a kind $o$ ' stiff, for I minded me how say French waiters, with paper collars and bras ings on their fingers, isn't company for a gurril brought up dacent and honest.
Och ! sorra a bit I knew what was comin' till the missus walked into me kitchen smilin', and says kind o' schared: "Here's Fing Wing Kitty, an' you'll have too much sense to mind his bein' a little strange.
Wid that she shats the doore, and I mis trustid if I was tidied up sufficient for me fine buy wid his paper collar, looks up and-Howly rathers! may I never brathe another breath but there stood a rale haythen Chineser grinnin' like he'd just come of a tay box. If you'll blave me, the crayture was that yeller it was on him but a bleck night awn rousers, and the front of his head or his laner nor a copper biler, and a blact ail hanging down from it, behind, wid his two fee tuck into the heathenestest shoes you ever so yes on.
Och! but I was up stairs afore you could turn stopt wid her by her raisin' me wages two dollars, and playdin' wid me how it was a Christian's duty to bear wid haythins and taich em all in their power-the saints save us ! Well, the ways and trials I had wid that Chineser, Ann Ryan, I could'nt be tellin'. Not a lissid thing cud $I$ do but he'd be lookin' on wid his eyes cocked up ard like two poomp handles, he widd' hi speck or sull $0^{\circ}$ Whiskers but it's dyin' you'd ne to see a yard long. 'larnin him, and he a arinnin' an' mags, hi ig tail (which was pieced out long wid hom lack stoof, the haythen chate !) and sottin into her ways wonderful quick, I don't deny mitatin' that chary, that you'd be shurprised Is it to ate wid him? Arrah, an' would I be ittin' wid a haythin an' he a-atin, wid dromticks - yes, an' atin' dogs an' cats unknowns me, I warrant you, which it is the custom of hem Chinesers, till the thought made me that ck I could die. An' did'nt the crayture proffer to help me a wake ago come Toosday, n' me a foldin' down me fine clothes for the ronin' an' fillin' his haythin mouth wid water,
an' afore I could hinder squirrit through his ap tight over the best linencloth, and fold it baste! But inercent now as a baby, the dirrity copyin' he'd been doin' till ye'd be distracted. It's yersel' knows the tinder feet that's on me ever since I've bin in this counthry. Well, owin' to that, I fell into the way o' slippin' me shoes off when I'd be settin' down to pale the praties or the like o' that, and, do ye mind that haythin would do the same thing after $m$ whiniver the missus set him to "parin' apples or have on him when he'd be pealin' anything. Did I lave for that? Fair a' Idid'nt he get mo into trouble wid the nise Did'nt haythin'? You're aware yoursel' how the boondles comin' in from the grocery often contains more'n 'll go into anything dacently. So for that matter, I'd now an' then take up a cup ${ }^{\prime}$ ' sugar, or flour or tay, an' wrap it in paper an' put it in me bit of a box tucked under the ronin' blankit and how it cudd'nt be botherin anyone. Well, what shud it be, but this blessed Sathurday morn the missus was a spakin' pleasant and respec'ful wid me in me itchen, when the grocer boy comes in an stands fornenst her wid his boondles, and she motions like to Fing Wing (whish I never would call by that name nor any other but just haythin,) she motions to him, she does, for to take the boondles an empty out the sugar, an ,e, Ann Ryan, what did that blatherin Che, Ann Ryan, what handful o' tay, an' a bit o' chaze right afore the missus, wrap them into bits $a^{\prime}$ peper an' spacheless wid shurprise, an' he the next min ate up wid the ironin' blankit and pullin' out me box wid a show $0^{\prime}$ bein' sly to pat them in. Och, the Lord forgive me, but I clutched it, and the missuts sayin', "Oh Kitty !" in a way that 'ud curdle your blood. "He's a haythin nagur," says I. "I've found you out," say's he. "I'll arrest him," says I. "It's you ought to be arrested," says she. "You won't,' says I "I will," says she-and so it went till he gave me so much sass as I cuddent take om no lady-an' I gave her warnin' an' left - -

Comparatively few persons know how the White House at Washington got its name. It was given to it because of its color. The buildBritish burned the interior in 1814 the walls ere so blacened that when it was rebuilt it was found necessary to paint them. Ever ince, at intervals of a few years, the whole tructure receives a fresh coat of white paint. The cumbrous title of Executive Mansion was very naturally dropped for the short and literally descriptive name of White House, and now only figures in official documents and cor-respondence.-[LLadies' Floral Cabinet.

It was a Frenchman who wrote: What is a woman? For a painter, a model; for a doctor, a subject ; for a pheasant, a i housekeeper; or a Parisian, a dowry; for a naturalist, a emale ; for an Albanian, a beast of burden; or a Roman, a citizeness; for a schoolboy, an angel ; for an honest man, a companion.

## How He Cot Justice.

It has been charged upon certain seoret order and "mystic brotherhoods," that the bond wrong them is usell as in aid one another in the vailty of public misdemear do ceitaing eckon upon escaping punishment, sometimes on the strength of their "tie;" but if all suoh met the straightforward treatment described in the case below, Masonry, Odd-fellowship and the like, could never be called shields to evil doers:
Some young men of the town of B., having "cut up" one night, to the detriment of certain windows and bell-pulls, were lodged in the alaboose, and in due time, next morning, conronted with a police magistrate, who fined hem each $\$ 5$ and an admonition. One of the hree foolishly remarked,
"Judge, I was in hopes that you would renember me ; I belong to the same lodge with you."
The

The Judge, apparently surprised, replied with brotherly sympathy, "Ah, is it so ? Truly, this is Brother B.; I did not reoognize you. rother Masons, and I should have thought of that. Mr. Clerk, fine our Brother B $\$ 10$ Being a Mason, he knows better the rules of propriety than other men. Fine him $\$ 10$. You will pay the clerk, brother. Good morning, Brother B. Call the next case."-[Good Cheer.

## A Pretty Sight

The piazza of St. Mark in Venice, a broad, pen square, is the great resort of Venetians in the evening for conversation, ice-cream eating, ooffee drinking and music. In the day-time it the resort of myriads of pigeons which are fed at the expense of the state, and which have been held sacred ever since the aid rendered by ane of them at the taking of Tyre, seven hundred years ago.
They are very tame, and a lady traveller writing home recently says that. one of the most irl of three years, daughter of an was a little U. S. frigate Congress, seated on the ground surrounded by pigeons. Her attendent had scattered corn all over her, the pigeons were struggling one over another on her lap, on her shoulders, piled.up on her head, and out of this fluttering mass of soft plumage peeped the child's sweet, half-surprised baby face.

## Taste in Dress.

A girl's whole prospects and happiness in life often depend upon a new gown, or a be coming bonnet, and if she has a s mon sense she will find this out. The great there must be something better than a pretty face under the bonnet if she would have real and lasting happiness.
There is no surer expression of character than dress. It gives evidence which none can dispute, of wisdom or folly, of refinement or the want of it ; and since it is an indication of what we are, its edicts have their place among the minor morals. Taste and elegance are not always signs of frivolity, or even of an absorb.
ing interest in the fashions ing interest in the fashions,


My Drar Nirdes,-It is an old zaying that of the fashion," but at present it is a hard matter to be entirely out of fashion, as there is suoh an extenalve variety worn, although each leason, and we might almost say each month, anounces some change, yet not quite a marked as a few months ago.
There are two new styles of wool street suits, viz:: combination of two fabrics, the underakits of many being striped goods made across or leng'thwise in pleats or plain, with plain wool for the overdress; others entirely of one material, whi. h are usually of home-spun, merge, bonclé, or other rough-sarfaced tuff. Mixed goods are also shown, one wool of severalcike, wis paster Plain velvet or plush skirits are revived, tin cloth orerdress, Th plain ckirt io bont two and.a-quarter yaris wide imply hemmed or fuished with a braid nd mounted on a foundation akirt which is entirely covered. The fullnees of the skirt is maseed in the back. The velvet is shown quite high on the hipe teast on one tide. Some draperies ar very long in the front and haok, and very short on the sides, being sometimee omitted allogether on the sides to show the rich fabries from the waist to 'he foot. Other dresses have a short lambre quin festoon on one side, with an apron front and full back, or a soft ponf drapery representing the mill maid over skirt now in vogue.
The back draperies are generally bouff nt, that is, the fullness puffed high
and the lower part hanging rather plain and square. Sash effects made of the ande material as the dress, if eofto not too heavy; are pretty, especially orer the long straight back.
Fig. 1 shows a pretty costume, in which the skirt is of figured goods pleated or kilted, and the front is plain goods of finer kilts, with a panel or rever of plush between the two fabrics. The front drapery is festooned, and the back bouffant. A mantle of figured velvet trimmed with heary lace. Round hat, trimmed high in front with velvet and plumage, and the rolled edge is finished
with a puff of velvet.
Tailor-made suits of soft woollen will be very fashionable for autumn and winter wear. Flounces on these suits are abandoned. The skirts are made plain, sometimes inished at the foot by a nothow pleases will form a stylish trimm There are three styles of wraps, viz.: Cloth jackets, for general wear ; short mantles for dress occasions, and long cloaks, for comfort. Some of the outside garments are made of rough finished cloths, and others of smooth,
with rough cloths for border, With rough cloths for bordere, collars and cuffo. in the back, and longer in front, sloping gradually to a point. The fronts of rough cloth jackets are made either single or double
breasted, but in most cases the right side lape on the left and buttons diagonally. The standag collar, about two inchcs high, is preferevy rep silk, finished around the edge with piping or cord of mohair braid, such as finishes the odges of the whole garment. The fronts of the collar are straight and made to meet, having a

linked buttons are passed, or else a small clasp linked buttons are passed, or else a small clasp
of wood or metal. The leeves are made amply loose, but no added fullness at the top. Small straight cuffs to match the collar, and slit pockets bound with braid on the sides. Very large flat buttons are again used, sometimes two sizes on the same jacket are seen-at the Cop and wais-line buttons two inches in the size. Veasts and reverne fronts continue to be worn on smooth broad cloth jacketz. Braid
as a border on th lowt edge.
Alaska, sable, Persian lamb skin, and light atural beaver, will be the popular furs for rimming cloth wraps for the coming winter. rantles are quite short in the back, reaching jast below the waist line, and curving ou licely over the dress. The fronts are long mantillas shape.
Some of the long cloks are made closely fitting in the back and half loose fronts, with square sleeves. The back is cur jas foeseary for the skirt dded in large pleats or French gatheri The style as shown in Fig. 3 is ver pretty; the plush panels give it a rich pppearance, Jerseys are again imported for autumn wear, and are cut with a many seams as a tailor basque. The are quite short and pointed in fron still shorter on the hips, and have narrow square postilion pleating behind. Cardinal plush vests are worn on navy blae, brown and black Jerrey
Cloth postilion basques made double breasted and edged with braid in tailor fashion are used by many instead of jerseys, as an extra waist to wear with varions 8 kirts .
Bonnets for street wear and travelling are very amall and narrow, with hith trimming directly on top, and increasing
ia height towards the back. The sides are very cose to the head, and the small arown is in horse shoe shape. The ntw fancy is to put trimming straght thruush the top and down the crown, such as rows of beads, rows of gilt cord, piping, iolde of plush, etc. Combiuation bonuets are made by using a figured fabric uhrongh the middle of the front and crown, putting plain goods up each side, forming a high fold that rests upon the middle fabric. The front edge of the new bounet is now very full, iustead of resting flat on the hair; it is raised by a beaded coronet, or by a puff of velvet which is very high in the middle and close on the sides. Some box-pleatod velvet fronts staud up very straight an 1 nigh in the midad
pleats on the side
Velvet, plush, embroidered cloth, and elt, are the materials for the new bon. nets. Beaded velvet and heavily beaded bonnets, with the sides of plain black velvet. Felt bonnets are finished on the edges with long stit hes of fine chenille eord in points or scallops. Many of the cordet and felt bonnets are trimmed with ribbon alone. The plain ripped or satin ribbons with purled edges are chosen darker than the boonet, and are arranged in a high narrow bow, of long loops ou top of the front. The st ings are then fold dd narruwly along the end of the crown, attached by an ornament on each side, and are tied under the chin. Ripped pluah ribbons are arranged in the same way, but fewer loops are wo thickness of the ribbon. Fur will be mas used

New tissues for long scarf veils are of fine silktrreads, woveñ in fish-net patterns. Dark red, blue, brown and green are the colors shown for winter veils.
Vests of lace are made to put on the outside of the dress waist. Some of these are of fine others are of plain silk muslin, or of embroidered Swiss or mull. They are shirred at the top and bottom, and are attached to a collar of two folds, or many narrower folds, that is buttoned behind. Very narrow ribbon, a fourth of an inch wide, is tied in long loops and placed at the throat instead of a brooch. Cravat bows are long and narrow, reaching almost to the waist liue and made of many fine pleats. Heavy laces are worn smooth and plain over velvet. Scarfs and barbes of lace are again coming into use.
The favorite colors in gloves are shades of brown and tan.
Fig. 2 shows a child's costume, which is easily made and very atylish.

Minnie May.

## Work Basket.

Knitted Baby's Boot.-Materials: One ounce of pink Saxony, and one ounce of white Saxony, four knittting needles, No. 16.
Cast on 53 stitches with pink wool on one
eedie, and knit across plain.
First Rov.-Slip 1 (a), knit 1, over, knit 3, slip 1, narrow, pass slipped stitch over, knit and knit the last two stitches plain.
Second Row. -Slip 1, purl plain.
Second Row.- Slip 1, purl the rest. Repeat
and fourteen times with white wool. Now knit 18 stitches plain, take another needle and knit the next 17 stitches on it plain; turn the work and knit these 17 stitches back and for ward as follows :
First Row.-Slip 1, knit 3, purl 3, knit 3, purl 3, knit 4.
Second Row.-Slip 1, purl 3, knit 3, purl 3 knit 3, purl 4.
Third and Fourth Rows.-Like first row.
Fifth Row. - Like second row.
Sixth Row.-Like first.
Repeat these six rows twice more, so that there are six little squares. Take pink woo and knit 16 rows, all plain, on the same seventeen stitches. Now pick up the seventeen and work them and the of ther narrow stripe, on the side needle phe or 6 rins. In the ext 18 plain rows you have to narrow every alternate row on each side of the narrow stripe and in the middle of them; also at the begin ing and end of the needle for the toe. Bind off loosely. For the instep stripe, pick up your titches just over the first square on the pink row, and knit these four stitches twenty four imes, plain, not loosely ; bind them off and fasten on the opposite side. Lace very narrow ribbon around the instep and tie in a small bow in front.
$\qquad$
A narrow shelf on simple brackets placed ver a doorway, and painted like the wood with of the room, is a pleasing and artistic ad保, and can be easily put up by any car penter. A few pieces of pottery, good in color
and shape, though not necessarily rare and cost-
$y$, may be grouped upon this shelf, forming
very effective decoration. very effective decoration.
Card Table.-Procure a small table with square or oblong pine top and crossed bamboo legs on two sides. Cover the top neatly with tack the cover tightly thick Canton flannel the edge. Make a lambrequin by cutting


Fia. 2
panels of felt with pointed ends and finishing them all around with couching, which is loose button-holing in gold floss worked over three or four strands of crewel the same color. Upo each panel set a shield in plush or satin, set on with an edge of gold cord. Cross each shield diagonally with a black velvat ribbon upon which are applied single white velvet figure of hearts, diamonds, spades and clubs, nearly


Fia. 2.
if not quite as large as those upon the playing cards.
A Library Table.-An ordinary kitchen table can, with little trouble, be transformed into quite an elegant piece of furniture for the
 to ke neatly sewed and the joining made on the
inside of the leg that it may not show. It is then tacked at the top to hold it in place. The cloth is drawn smoothly over the top and tacked all round the sides. The head piece extending round the sides of the table must also be covered. An under-shelf is made of pins
wood covered with cloth and fitted securely to wood covered with cloth and fitted securely to the legs about eight inches below the top. A
heavy cord fringe of green worsted must be heavy cord fringe of green worsted must be
fastened round the edge of the top, also round the shelf, with bress-headed nails about an inch and a half apart. A caster fitted into each leg will finish a very handsome table.

Handkerchief bags make lovely presents for Ladies, and can be made out of two oval o shield-shaped bits of pasteboard covered with satin and painted with flowers and birds. For the outside of the bag gather a piece of satin a quarter of a yard in width and twice the full ness of the painted centre on both edges, and sew it all around, and make a shirring at the top of the satin to rua in ribbons to draw $u_{p}$ the bag. The bag can be made of black satin as nasturtiume corntione or powe, such as nasturtic

Cheap Wori Basket. - A pretty work bas ket can be made on an ordinary aplint grap basket ; line with bright colored silesia or flan nel. On Java or aida canvas, work á simple pattern, leaving a margin for fringe at the bottom. The canvas should be as long as the cir cumference of the basket, and as wide as the basket is deep. Let the linen come over the odge and join the canvas to it, covering the seam with a cord or plaited ribbon.
A ?handsome lining for a fancy silk quilt is made of plain surah silk, or, if that is too ex pensive, plain soft cashmere of a pretty colo serves very nicely. It is often a question how out marring its beauty. A very pretty way to first baste the outside carefully on the lining -then divide the lining into squares, marking the corners of each square with a thread. A pretty star may then be embroidered at every point, catching the two sides together, but taking care that the stitches do not show on the right side. A cardinal lining with star ombroidered in yellow silk is quite showy. A darker or lighter shade of the same color as the lining used for the stars makes a tasteful com bination.
to Inquirers.
Answers to Inquirers.
MabrL. - White Lady is a being who, according to popular legend, appears in many of the castles of German princes and nobles by night as well as by day, 'when any important event, whether joyful or sad, but particularly when the death of any member of the family, is im. race ; shows herself always in snow-white garrace ; shows herser
ments, carries a bunch of keys at her side, and sometimes watches and rocks over the children at night when their nurses sleep. It was long a common belief in the Highlands that many of the chiefs had some kind spirit to watch over the fortunes of their house.
An Otj Subscriber.-The wedding anni. vernariem are-Firat year, iron; 2nd, papar; 5th,
wooden; 10th, tin ; 15th, crystal ; 20th, china 25th, eilver ; 30th, cotton ; 35th, linen ; 40th, woollen; 45th, silk; 50th, golden; 75th
aiamond.
J. .. A.-How are green cabbage colored to
 how are onions pickled? ANs.-T over night ; then drained from the salt and washed in clear water, and left to drain dry. It is then put into a jar with slices of red beets alternately, bout half and half. Boiling vinegar is then poured in it to fill the jar, which is corked up tight and left for six weeks. Whatever spice desired may be mixed in among the cabbage Ironing Tableclotis.-S. R. T. writes : Is there any particular way in which long tablecloths may be easily ironed so the folds will be straight and handsome. I find great difficulty in folding mine evenly. They will at askew somehow." ANs. - Sprinkle the
 Then fold it once the and while you . ther end With the two corners of the one ather end With the two corners of the one the other end in the other two hands, snap the tablecloth till it comes straight ; then gathering it up at the end, pull it till all the threads lie straight. Then lay one end on the ironing boards and iron, letting the ironed part fal into the clothes basket as you proceed. When one side is ironed, iron the other ; then fold and press down hard on the edges to make th creases sharp and firm. A little thin starch in a tablecloth makes it iron nicely and makes it
keep clean longer than when no starch is used Fred.-l. How should a person ask a young lady's father for his aangler's hana, the young lady have tor 's consent? young man when seeing him for the first time after being married, and what should he say to the youn lady? Ans. -1 . The best way would be to call at the father's place of business, ask for a private interview and then state your affectio for his daughter, asking his consent to your engagement; you would of course tell him you prospects and means of supporting a family If you feel too bashful to do this you migh write thus: "Dear Mr. Brown-Having ve tured to propose to your daughter, Amy, sh has done me the honer of entertaining my pro posal kindly and refers me to you. Your con sent to our engage ". happiness, \&c., stating your $p$. and signing yourself respectfully
A Consin Remove tar, rub with and warm water several times to $r$ ove all the grease; wash your cashmere in sud made of soap bark, which you can ${ }^{\text {P }}$ procur from any chemist, and it will look almost a nice as new.
Florence S.-To make light puff paste it necessary to keep, it cool while preparing. We as much flour as you will require with cold water, then roll and spread with butter and ard of about equal quantity nine times. I will be necessary to sprinkle a litle flou ocoasionally to keep the pin from sticking, but knead it as little as possible, and I think you

## Recipes.

Amber Puddura Ingredients: 1 dozen large tart apples, 1 cupfuliof sugar, the juice and rind of 2 lemons, 6 eggs, four tablespoonfuls of butter, enough paste to line a three-pint pudding ish. Pare and quarter the apples. Pare the t into the white part. Put the butter, ap. les, lemon rind and juice into a stew-pan with hasf a cupful of water. Cover tightly, and immer about three-quarters of an hour. Line the dish with thin paste. Beat the yolks of the eggs and stir into the cooled mixture. Turn his into a lined dish. Bake slowly for half an our. Beat the whites to a stiff froth, and gradually beat into them three tablespoonfuls of powdered sugar. Cover the pudding with his. Return to the oven for a few seconds to rown. Serve either hot or cold
Preserved Quinges. - Pare and quarter the ruit, and take out all the core and the hard part around them. Boil the fruit in clear water until tender, then spread on towels to ry. For 1 lb . of fruit allow $\frac{1}{2} \frac{1}{2} \mathrm{lb}$. of sugar, and 1 pint of water for 3 lbs . of sugar. When the syrup is boiling hot put in the fruit and let cook very slowly, or set it back on the stove, that it hardly cooks at all, and keep it on or an hour or more, ng to por pill be it in jars and strain the syrup over it, as with other fruits.
Kiss Warers. $-\frac{1}{2}$ pint of blanched bitter lmonds, 1 heaping cupful of powdefed sugar, the whites of 6 eggs, $\frac{1}{3}$ cupful of flour; tablespoonfuls of corn-starch. Blanoh the al monds,and pound them in a mortar. As soon as they are a little broken add the white of an egg. Pound until very fine. When there is a mooth paste add the sugar, a little at a time, the whites of two eggs, one at a time, and the lour and corn-starch. When thoroughly mixed add by degrees the three remaining whites, Butter the bottom of a flat baking-pan and put the mixture on it in spoonfuls spread it very thin, especially in the centre, and bake in a quick oven. The moment the cakes are taken_from If allon, to the hape corlled, and for this reason it is best to bake only half a dozen at a time. When all are shaped, fill with the kiss mixture, made by beating the whites of three eggs to a stiff froth and stirring into them, lightly, four tablespoon fuls of powdered sugar. Place the wafers in a warm oven for twenty minutes or half an hour, to dry. With the quantities given two dozen can be made.
Muffins.-One qt. of flour, 2 cups of milk cup sugar, 2 eggs, 2 teaspoonfuls of oream of tartar, 1 of soda, $\frac{1}{2}$ teaspoonful of salt, butter the size of an egg. Mix the other dry ingredi. onts with the flour and rub through a sieve, Melt the butter with four tablespoonfuls of boiling water. Beat the eggs light and add the milk. Ntir into Bals in buttered mufi pans from twenty-five to thirty minutes, in quick oven.
Sllver Cake. - One oup of sugar, $\frac{1}{2}$ oup therer, the whites of 3 eggs, $\frac{1}{2}$ cup of corn cups flour, $\frac{1}{2}$ teaspoonful of cream of tartar, of soda, vanilla or almond flavor, and a little
salt. Beat the butter to a cream, and grad ally beat in the sugar, add the flavor. Mix the flour, salt, cream of tartar and soda together and sift. Beat the whites to a stiff froth. Add the corn-starch and milk to the beaten sugar and butter; then add the whites of the eggs and the flour. Mix quickly and thoroughly. Have the batter in sheets and about two inchols deep. Bake in a modrate an hour. A cho cake.
Jellikd Grapes. - Take about $\frac{1}{2}$ cup tapioca, 2 cups of grapes, 3 tablespoonfuls of sugar, and hittle more than $\frac{1}{2}$ cup of water ; spring ish. tapioca and grapes togetier in aper the water, cover closely, and bake very slowly for an hour and a-half; eat warm with sauce, or cold with cream.
Chocolate Caramels.-Put a pound of fine sugar and half a pint of water into a preserving pan ; beat it with a wooden spoon until it boils, arefully skimming it; when it is perfectly quid, stir into it half a pound of finely craped chocolate ; boil it strongly until it hardens when dropped on to a plate; herd cut it with a buttered knife into squares; when cold break it up.
Jelifed Tongue.-Boil until done a large beef's tongue, saving about a pint of the liquid ; remove the skin ; allow it to cool, and then slice in thin slices ; in half a pint of water dissolve two ounces of gelatine ; from a cupful of browned veal gravy skim all the grease, and stir into it a small tablespoonful of sugar, one of brown sugar, three of vinegar, and the water in which the tongue was boiled ; then add, mixing well the dissolved gelatine, a pint of boiling water ; strain through a jelly bag. As soon as it begins to set, pour a little into the bottom of the mond, on, until the mould is full; more dip the mould a moment into hot water, and turn out the jellied tongue upon a dish, surpunding it with parsley or lettuce leaves, or prigs of celery.

What Wives are For,-It is not to sweep the house, and make the beds, and darn the ocks, and cook the meat, chielly that a man wants a wife. If this is all he wants, hired ervants can do that cheaper than a wife. If his is all, when a young man calls to see a young lady, send him into the pantry to taste he bread and cakes that she has made ; send him to see the needle-work and bed-making; or put a broom in her hands and send him to witness its use. Such things are important, and the wise young man will quietly look after them. But what the true man most vants of wife is her companionship, sympathy and love. The way of life has many dreary places it, and man needs a companion wisfortune man is solures entions he needs one to stand by and aympathize, He has some stern battles to fight with poverty, with enemies and with in, and he neds a woman, who as he puts an arm around her, feels that he has something to fight for, will help him fight ; who will put he lips to his ear and whisper words of counsel, and her hand to his heart and impart new in
spiration. All through life-through storm spiration. All through life-through storm verse and favorable winds-man needs a woman's love. The heart yearns for it. A sister's and mother's love will hardly supply the need. Yet many seek nothing furthe than housework. Justly enough, half of thes get nothing more. The other half, surprised above measure, obtain more than they sought. Their wives surprise them by giving a noble idea of marriage and disclosing a treasury o courage, sympathy, \&c.-[Dorcas Magazine.]

## Infant's High-Neck, Long-Sleeved

 Knitted shirt.4 skeins cream-white, starlight Saxony; 2 small bone needles.
Commence at bottom. Cast on 78 stitches knit across plain once,
lst row.-All plain knitting. 2nd row.-All seamed.
3rd row.-All plain knitting
4th row. - 1 plain, ${ }^{\text {narrow, }} 3$ plain, make 1 , plain, make 1, 3 plain, narrow, "repeat from * to * till end.

5th row.-All seamed.
bth row.-Like 4th row
7th row.-All seamed.
8th row.-Like 4th row.
9th row.-All plain.
10th raw. - All seamed
1th row.-All plain.
12th row.-Like 4th row.
13th row.-Like 5th row.
4th row.-Like 4th row.
5th row.-Like 5th row.
6th row- Like 4th row.
And so on, repeating until there are 4 finished pattern rows, that is, 4 times 3 rows of eyelet whi he ribling lolwen, as ber, narrow 3 gong and redle leaving 72 stitches, Now knit 46 rows of 2 plain, seam 2 , alter ately.
To shape shoulder, narrow 1 at each end of needle every time across, until there are 44 o needle, and bind off. This forms the back.
front.
For front, after knitting border as for back, knit 2 plain, seam 2, alternately for 36 rows Take off one half the stitches on another needle and knit 10 rows ; now narrow on outside end of needle every time across, until there are 28 middle of front), bind off 3 stitches, ever other time across (this is to hollow the neck), continuing the narrowiug for shoulder as before antil all are bound off, leaving yarn sufficiently long to sew up shoulder. Knit up the other half of front in same manner; sew up shoulder and sides on wrong side, leaving space fo sleeves.

## leeve.

Take 2 medium-sized steel needles, and cast 0 stitches on one. Knit 2, and seam 2, alteradely, till you have done 30 rows. Widen 1 2, by picking up stitches at equal distances in the
on row.
Nuw use the bone beedles with which you nately, for 40 rows. For gussets, widen stibch at eash ond of needle every other time
across until ther
Bind off, sew up, and sew into body. Finish the cuff and front of bosom with a smal crocheted scallop of cream-white knitting silk Then crochet a row of holes to run in ribbon a the neck, and edge these holes with the scallop also. If the front is too open, 2 little pear buttons may be sewed on.
I would say to the sisters, any who would like to see a circular of the new book, "Fancy Work Recreation --1 have a good supply tribution-just send me your address.

East Gloucester, Mass.
A Fateful Darning-Needle. by margaret eytinge

## A bery of fair girls they wer And all exceeding busy;

 Maud sewed upon a crazy-quilt, And so did Jess and Lizzie; Some charming cherub faces ; And Nell and Bell right skillifully Wut Peave yards of pretty laces. With ribbons, gently rockingDarned - foot drawn on her little hand, The toe of her silk sfocking,Her dainty, black silk stocking.

Oh! such a pictuie as she made
The goldent sunbeams glancing On golaen head, as, to and fro,
Sne swayed with grace entrancin Her lovely brows were slightly bent, Her lips closed rather tightl y; A task to think of lightly. A thask to think of tightly. The stitches interlockiug, And with her needle pierced my heart That dainty, black silk stocking.
Lovi_
Loving to Order.-There is nothing harder to do than to love to order. Such is the contrariness of the human creature that if com manded to love in one direction, he will immediately turn his heart from that object and pay his addresses elsewhere. Because a man of money, desirat, young girls are apt to think him ove - $n$ a qisin, and for tesperately in one if they do't wish him out of the bargain but with his is abishment, just is if they pro posed living in a atable and feeding on golden oats, They have an affinity for wealth, and feel that love may come in time ; but it never does. It cannot be ordered in with the groceries, or ordered out when it has possession, and any marriage that is contracted on the supposition that houses, lands, fortune, ame or beauty will take the place of love, wil prove a terrible mistake-a pitiable failure.

## Aaron's Beard.

Whether one believes in good old fashioned tunes, or ornate musical flourishes, in church choirs, he must adnit that all words are no Other Saturday" describes one of those absurd ities of musical arrangement which so often oc cur in the church service :
The psalm read from the pulpit to be sung
by the choir was the following :
"True loveis like that precious oil, Which poured on Aaron's head,
Ran down his beard and o'er his robes Ran down his beard and o er his robes
Its costly moisture shed." Its costly moisture shed.
It was performed in parts, with such celerity voice and violent contortion of the body as was striving to outstrip the others in the chor al race-course. It was in this concluded :
'Ran down his beard and o'er his head-
Ran down his beard-
nd o'er his robes -
Ran down his beard-ran down his His robes, his robes, ran down his beard. Ran down his-o'er his robes
Ran down his beard
Its costly moist
Ran down his beand -ure-beard-his-beard-his-shed ran down his beard-his-down his robes-its costly moist-his beard ure shed-his-cost-his robes-his robes-
 A kind hearted bishop who was present at this church service was asked, at its conclusion, for his opinion of it. His reply was that he paid no attention to the music for his sympathies were so excited for poor Aaron, in his shampooing process by the choir, that he wae afraid he would not have a single hair left-if, indeed, he came out alive.

## Skipped Saturday.

We have often smiled to remember how, in a certain quiet homestead, many years ago, the count of the week-days was lost years ago, the the monotonons "dead of winter" and as now blockade-and how a sum equal to a supposed day's wages of the family was afterwards penitently put into the missionary-box as a "pun. ishment" for having worked on Sunday. One of our country exchanges tellis of a "York State " farmer who made the opposite miscal culation, and kept Sunday too soon instead of too late
Last Saturday Ham Cherry arose in the norning, took a bath, put on his black suit, and aftor breakfast occupied himself reading acred books. He told his folks that as it was so far to church, and as the off horse had galled his shoulder ploughing, he guessed he would ot drive thitner. Everything was quiet and eaceable about, and Ham was glad there was yast after ar man to rest and recuperate. But ith lod of hay. Ham doped to the with a load of hay
and called out,-
"How is this, John, that you are working to day? You should go to meeting."
"Haint got no time to go to meeting on week days," answêred John. "Sunday is all the time I can spare for church-going."
The man then drove on. Cherry stood and scratched his head meditatively for a few moments, and then entered the house. He told his wife to get a pencil and check off the days. "Less see-Monday I went to town. Got that down?"
"Yes."
"Tuesday I broke the colt. Wednesday put up that fence down in the lower fiela.

Thursday I killed the pig. Friday I licked the tramps. Saturd-a-y, what did I do Saturday?" In just ten minutes after the above convers tree with one hand, and driving his team down the lane toward the field on a sharp trot. We hope the poor "off horse," with the galled shoulder, really got a rest next day.

## © tober

To many is the saddest month in the year; it presents to them nothing but dead and dying forms of vegetable life. But it is only in theory that are ared in, the fields now bare of vests are gerdure, the woods in the first stages of leafy decay, the birds gone to more genial climates, the garden rusty and full of seedy or frost-stricken flowers, and everything telling of the departure of genial summer and the approach of chilly winter, there is an opposite sidy to this gloomy picture. No month is so full of rich and varied attractions, and none offers gratification and satisfaction to the diverse tastes of so many admirers. We should not see the dying flowers but the ripened seed-pod with its hundreds of infant forns, which we will tend in the cradle of our thoughts until the dawn of spring, when they will bring to us hundreds of joys for every sorn wo had the loss of parent plin. And field morest, in October. To the eyes of all who love forest, nents not decay and death, but a rich display of nature's choicest beauties. Every tree is now dreased in its must glowing attire ; it seems as though all the summer's warmth and the earth's richness had been collected and absorbed, only to be returned infinitely increased and improved. Change is nanitest everywhere. The air feels its duties enlanged, and is no longer sultry and stiffed, but transformed into blue and purple mists, that envelop the hills and fill the valleys. The hedge-rows that all summer long have been the hume of the cat bird and the thrush, shielaing them by its thick ver dure, are now radiant
The richest beauty of October, however, is to be sten in the Birches, Maples, Chestnuts and Oaks; the Cedars festoontd with the Woodbine, all blended together, atd yet made more brilliant by the purple atmosphere, the spirit of maguifictnt, till the splendors of the earth ri val those of the sunstt. It seems asif the consciousuess of the long sleep of winter, now uear at hand, had roused the material world to show its gratitude to its Lord and Master for raius and wiuds of spring - for the hot and sunnulatung suus of summer-for the bounceous harvestu of autumn-1n une resoundng halit lujah,
in whose soug the vorce of the sinallest tluner in whose song the volue of the snimes nilghty tones of torest and mountain.
Theodore Hook addressed the following lines to Mr. Blauk, who put over his door ' Pen and Quill Manufacturer :'"
"You put above your door and in your bills, Y cu'ie manufacturer of p tho aud quils ; And tor he hast yuu $h \in t 1$ may $1 \in t i$ a pride ; but fur the yulls, ycur worus are somewhat Who nase; ;imactures quills must be a goose!"

## Falling in Love.

There is nothing-no moral or intellectual phenomena-more strange than falling in love What it is ; when it originates; how brough about ; these things are among the hidden my teries of our nature.
A girl has reached the age of eighteen, a young man that of twent-one. They havi studies, attended parties, and been a good deal in the society of other young people, yet they never took a very deep interest in anything in particular; neither of them ever cared ver much for any other person.

$$
\begin{aligned}
& \text { nucn yor any ouner person. } \\
& \text { Thev meet. and lo! of }
\end{aligned}
$$

They meet, and lo! of a sudden all is light from what any other was in a different the whole world seems changed; life itself is changed ; their whole being is changed to be like what it was, again, never more.
Love is often as sudden as this; but not al ways. Sometimes it is of very slow growth Persons have known each other for years, an been in each other's society, and been intimate all this time; but never thinking of a tie stronger than friendship, when some inciden -even a temporary parting, or the interven tion between them of a third person, friend or stranger-reveals to them, for the first time, the great truth that they are mutually in love Yet this love, springing up gradually and im perceptibly, is no less mysterious and unfathom able than that which is sadden and at firs sight. It is not mere friendship grown strong; is a more absorbing
Love lives to labour
Lover ; it lives to give itself Look within your heart, and see if thist love true. If you love anyone truly and deeply, th ory of your heart is to spend and be spent your loved one's service. Love would die if it could not benefit. Its keenest suffering is met when it finds itself unable to assist. What man could see the woman he loves lack anythin and be unable to give it to her, and not suffer $n$ hy, love makes one a slave! It toils night and day, refusing all wages and all reward save the smile of the one unto whom it is bound, in whose services it finds its delight, at whose fee alone it discovers its heaven. There is no danger that language can be too strong, or too By cradle and uut and palace, the minisuries of and coffin, in wrought. The ejes of all behold them; the hearts of all are moved at the spectacle.
Whether a person can fall in love more
once is a moot question. Some people appea to fall in love many times. It is not unusua to see widowers, who have been very devoted husbands, marry again, and seem to love the second wife just as well as the first.
$\qquad$
At a wedding where the bridegroom led for the second time a biide to the altar, the of it ing clergyman, with an intention better than his wisdom, thought it well to make a few remarks as the bidal pair stood before him, and he did so in these words :-" Dear f.iends, this is indeed a happy occasion; and all that is ni eded to complete this happuess is the

## The old Front Door.

 I remember the time when I used to sit, A happy and thoughtless boy, When father came home from his work at last and was tired of my toy; Shall I limer the time, and n When I sat at eve by mother's side, On the sill of the old front door.I remember I'd sit till I fell asleep, Aud list to their loving talk;
While the crickets chirped, and the fire filen bright Flew over the garden walk. Aud often would fai her tell the
Of the time, long years before Of the time, long years before,
When he led his bride to a happy home O'er the sill of the old front door.
remember when grandfather failed and died And eighty y ars old was he,
And well I knew that never And well I knew that never again And, though but a gay and thoughtless boy, I wept, and my heart was sore O'er the sill of the old front door.
It is many a weary day since then And I , too, am old and gray But the tears come crouding into my eyes
When I think of that long past dey Vhen I think of that long past day,
And I only hope that whatever end Fate may have for me in store, I shal pass once more, ere I pass away,
O'er the sill of the old front door

Things Worth Knowing. There should be good news for suffirers from nenralgia, if the experiment of an eminent physician can be repeated. He has found that the application of a vibrating tuning fork passed along the course of the nerve relieves the pafere will hety in about half an hour. Sufes, an electricians will su pply them with the means of keeping the fork in vibration; for, in the ab sence of any special mention as to the pitch the fork, it appears that the relief is obtained well
Home-made peppermint drops are a harmles delight to children. With a little direction they can make them : Take two cups of suga and half a cup of water; let this boil for five minutes ; take from the fire and flavor with the essence of peppermint ; the quantity mus $a$ few drops are usually sufficient. Stir with a silve spoon until it is quite thick, then lay a butter ed paper on a platter, and drop the
apon it in little circular-shaptd pieces.
To clean stained woodwork which is also va nished, an old housewite recommends the Ear Drain thea-leaves from the teapot for a few day ranthem, and when you have a sumcien hem simmer for in clean, soft water, cold, strain them out, and, dipping a flannel loth in the water, wipe off the paint, drying with another flannel cloth. One cap allow. leaves
ance.
It is not generally known that when coffee beans are placed upon hot coals or upon a hot plate, the flavor arising is one of the mos fective and at the same time agreeable disin preals. If no hear is obtaiuable, even th disiufected is most satisfactory.-[America Queen

இncle＇大am＇s Department

My Dear Nephews and Nieces，－This month I propose to talk to you about rabbits and how to care for them．It is best to buy your rabbits of some reliable dealer，rather than of a boy friend，who may happen to have some，unles you ！now your boy thoroughly．You must take care not to buy old ones，or，indeed，any ver eighteen months．A good rabbit has a fin arge eye，a smooth coat，and an active，spright y appearance
Having obt
Having obtained your pets，their hutch or dwelling is the next consideration．This should be elevated from the ground，and（for two rab－ ing－room at each end，and a large living－room in the centre，divided by a good stout board The sleeping－rooms should be closed，but the living－room may be covered by a wire net－ ting，so that the inside can be easily seen．The hutch should be perfectly water－tight，for damp hutch will kill even strong，healthy rab－ bits．The sleeping－rooms should have some oft hay in them，and the floor of the entire hutch should be arranged so that it may be easily cleansed．Too much cannot be said abou keeping the house clean，for a dirty hutch is the cause of almost all the ills which rabbits re heir to
Their food is the next question which ma perplex the young keeper．Oats should be vould be an buare，bo the pice life＂er with rabbits an lod should be as varied asposible，Ots be given dry or after having been soled in tea leaves over night．Rabbits are also fond f carrots，cabbayes and letuce，and a variety f other galden vegetables．As rabbits require ittle water，and almost all the moisture they equire is obtained from this fresh food，very ittle should be given them，and that very se dom．But in winter and times when fresh food s not easily obtained，a little water，or，better till，milk，will do no harm．
The rabbits should be allowed to run at large as often as possible，and they cannot have a better place tor exercise than in a yard with grass and clover growing in it．Whenever here is an addrtion to the tamily，the doe will begin to make a nest，and to do so will usually phek her breast bare of he fur．Ho avid his the nest，whi h must not be disturbed，The proper way to handle and take up rabbits is to the them by the ears，close to the body．Lift hem up thus，and support the hind legs with the ther hand．The mother will look after her off pring until they are about two weeks old when they ought to begin eating．In winter they should be kept warm and the dampness igidly excluded．A piece of glass in place of the wire netting in front of the living room is good protection．Powdered sulphur sprinkled around the hutch and on the rabbits is a good preventive of ordinary diseases．After you ave had your rabbits for a few months，by close watchng you will discover their wants and eculiarities，and will need little，if any，assist ance fiom outside．You will have found out that＂experience is a good teacher．＂

Unole Tom．

## Puzzles．

1．－Drop－vowel Puzzle．
Th－f．－1wh－lov－s th－1－wt．－w－ll
 ada Armand．
2．－Transposition．
Na enthso yoyenamr si uro＇socytnur eridp， ree eb euipsldp．
Robr．J．Risk．
3．－Numbrical Eitgma
I am composed of nineteen letters． My 4，10，6，8，9， 16,19 is worn by all． My 14．15̌，6，5，13， 8 means old． My 11，18，6， 8 is a garment．
My $7,2,13,15,8,16$ is a space of time． My 11，6，7，10， 3 is an animal．
Whole was a king of England．
William a．Laidman．
4．－Syncopations．
Residence $=\mathrm{A}$ tool
To heave $=$ Great number．
To stop $=\mathrm{A}$ covering for the head A man＇s name $=\mathbf{A}$ nobleman．
A small boat $=A$ stick
Syncopated letters will give a poet．
Henry Rerve.

5．－Illustrated Rebus．


6．－Burikd Cities．
That felon don＇t like imprisonment Look at Hector on top of the hill． I bought that watch at Hamilton The people on the barque be koned to those
king stones
Ellis Augustine．
7．－Diamond．
A vowel；a girl＇s name；a weapon；a country sea in Europe；a deed；a vowel．
vowis Augustine．
8．－Anagram．
Sthi efli si otn os dab a life
Sa moes ludwo eoocsh ot kame ti，
Tbu fi ouy rae eessdrp yb erac dna fistre
Tusj fimriyl dastn adn kate ti．
Mary Marshall．

## 9．－Charade．

My frst is something new
A letter is my second．
Now juin these two，and on my third You＇ll find them there，I reckon Or first and second take and see Them in my whole as plain as can be

A．J．Tayloz

10．－Word Square
An ache；a piede of land；the rainbow； bed for birds．Magaie F．Ellioter 11．－Anagram．
Yb ceanogrin si derip descriane，
Tyte ostm ssuema hwo wkno eth sealt．

## nswers to September Puzzle

1．－

F | L |  |
| :--- | :--- | :--- |

D |  | O | U | R |
| :--- | :--- | :--- | :--- | T

$\begin{array}{lllllll}H & E & R & I & T & O & R\end{array}$
$\begin{array}{lllllllll}\mathbf{L} & \mathbf{O} & \mathrm{U} & \mathrm{I} & \mathrm{S} & \mathrm{R} & \mathrm{I} & \mathrm{E} & \mathrm{L} \\ & \mathbf{S} & \mathrm{O} & \mathrm{A} & \mathrm{P} & \mathrm{L} & & & \end{array}$


2．－Be wise to．day，＇tis madness to defer， Next day the fatal precedent will plead Thus on till wisdom pushed out of life． Procrastination is the thief of time．
3．－Your fate is but the common fate of all， Unmingled joys to no man befall．
4．－Farce－Fare－C
Fiend－Find－
Place－Pace－L
Gray－Gay－R
Boyne－Bone－ $\mathbf{Y}$
5．－Vest，zest，pest，jest，test，nest，west， 6．－March，Hungary，Inn，Friendly，Man Tweed，Negro，Black，China，Nice，Tuckey Salt，Rainy，Mud，Chili．
7．－The breaking waves dashed high，
On a stern and rock－bound coast，
And the woods against a stormy
8．－Rye，butter，wheat，oats，peas，beef， 9－Forget－me－not．
Names of Those Who have Sent Cor rect Answers to September Puz ery
Henry Willson，E．W．Hutchinson，Joseph Allen，Willie B．Bell，Wm．Jackson，Chas， tin，Mary Morrison，Henry Reeve，Wm．A． Laidman，Georgia Smith，Thos．J．Lindsay， Alice Hume，Littie A．B iss，R，Roert Wilsou， Robt．J Risk．Alice Mackie J．J．Steele，Mary Black，Ellen D．Tupper，Ada A．maud．Eddmund Becca Lowry，Chas．Simpson，Agnes Leslie， Fannie Hammond，Minnies Smith，G．O．Gor－
don，Elfred Luscombe． don，Elfred Luscombe．
About two hundred years ago there was a physician in Lindon by the name of Iniao Letsem，whose sign read as follows ：－

When the penple get sick，
Then if they wishes to die
Then if they wishes to die，I．Letsem。
A man of tact always manages to get out of difficulty．The clerk of a parish，whose bus－ iness is to read the＂first lesson，＂came across the chapter in David in which the names Shadrach，Meshack，and Abednego occur
twelve times，and finding it extremely difficult twelve times，and finding it extremely diffcult chapter referring to them as＂the aforenaid
gentlemen．＂

| Child-Nature. <br> by whliam h. hayne. <br> A man may be noble and great, <br> And a woman tender and pure, <br> But their knowledge, if deeper, is less divine <br> p Than childhood's innocent lore. <br> Ah! why should we wonder at this? For God on the little ones smiled. <br> And we often lose with the lapse of years The flawless faith of a child. <br> A man may be gallant and gay, And a woman joyous and bright, <br> But they seldom keep through the waning year <br> The passion of pure delight. <br> Ah 1 why should we wonder at this? <br> For God on the little ones smiled, And a harmless lightning of laughter plays Round the guileless lips of a child. <br> Then happy are those who cherish Youth's hopes and its fleeting tears, And some clear signs of their childhood keep Through a circle of changeful years. Ah ! why should we wonder at this? For God on the little ones smiled, And the heads of the Wise Men bent above The cradle that held a ohild ! |  |
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## Birds for Profit.

an aviary for canary birds. An aviary for the raising of canary birds for profit can be easily prepared. If you have not a room in your house that can be used for the purpose of an aviary, have it eight feet wide an the birds like the sunshine, face the east, for the birds too hot for them. Have plenty of window, but let them be on Have plenty of windows, but let them be on the south, east and north sides, and no two opwindows and the one door be furnished with a mareen, for most of the season you will want the windows and the door open.
Have built in the eastern end (the front of the building making one side of it) a cage made of areening. Let it be three feet wide, and ex tending across the entire width of the room which is eight feet. Have this divided int two equal parts, making each three by four.
This division may be made of screening also Have a door in each of these divions, and the entire bottom furnished win a prop out, so as to be easily clion of the young bird cages are for the is distinguished. Each of as soon an the these cases
lozen birc
Get eight little tin buckets holding a pint ach. Have the proper person cut five holes in the bottom.
Have the edges of these holes bound, so the birds will be in no danger of hurting themselves. Three of these for seed and one for water in each apartment will be amply sufficient, and the birds will learn to use them properly without any trouble.
The old birds may be in cages, hanging on the walls of the room. Many advise turning them loose in a room furnished with trees, in which to build, and leaving them entirely to the very selves. We tried this plan one season, and very much prefer caging them, as I have just described.
I agree with others that according to the foronomioal way (the outlay for males being so
much less) ; but the females become anxious for another nest before the young ones are old enough to take care of themselves, and so So, many die from starvation and want of attention.
You will doubtless raise some clear yellow birds. These, when about six weeks of agethat is, when they begin their first moult-can be colored red by a plenteous feed upon cayenne pepper. Use a teaspoonful of pure pepper to one egg. Feed the birds on this alone for about six weoks, unless it seems to disa in which case give a little seed.
These birds, when they have donned their new coat of feathers, will be crimson canaries. All your canaries when moulting-a curs with the old when they should bo soprated raising from each oing, and season be given up-should any mod in adition to their regular feed, upon be fed, ripem ; it tones up the system and brightens the plumage. At this period they should be kept warm, and carefully excluded from drafts.
In September your birds are ready for market, if you choose to sell them then; but if you seep them until the first of December, they are then called birds in full song, and are worth at least one-half more. Write to some fancier and learn what they will pay at both seasons, and judge for yourself whether it would b better to keep them until that time.
Ponsonby de Tomkyns Beains to Assert Himself. - P. de T. (who has had a little too much - music) : Look here, can stand ,hat witching into England, onger. Hes alres all his money多 George, whistles, and picks his teeth, He yawn and himself in the glass when ladies are talking to him. Doesn't care what he says before ladies! Look at 'em all fanning him, and licking his boots! Makes me sick!! Half a mind to kick him down stairs !!!' Mrs. P. de T.: "No, no! Hush, love! He's genius! He plays the flageolet better than any man living! The princesses would never have been here to-night, thing ! ! ! "- [Punch

## Three Wonderful Pillars.

A correspondent of the Pittsburgh-Dispatch says of this range of mountains :
At the head of Canton Canyon in the coast range of mountains, California, stand three tall pillars of rock almast nearly exactly the same size and pyape more than 1,000 pore the the the blact- Moxican women. The leader is the widow of the famous Mexican bandit, Joaquin Murietta. She has been there for twenty-five years, the other two not so long. They profess to see spirits as plainly as though they were in the flesh, and to hold conversation with them. When the spirits arrive, these women meet them, go through the form of shaliving. Th gist of their teaching is that the three rocks are hollow, and are really gorgeous temples, and
that in next month a potent padre will come from Mexico and open the doors of these temples to believers ; that once inside each wil ${ }^{1}$ possess his or her affinity regardless of previous marital relations. The sick are laid in front of the rocks and soon manifest signs of recovery. So many of the Mexicans, Portuguese and with ers in the valley have beco of thenes are the new doctrine hary heck the the without the necessary help to tend the stock or make the crop.

## The Death of the Flowers.

The wind flower and the vialet, they perished long ago,
And the brier-rose and the orchis died amid And the brier-rose and the orchis died amid
the summer glow, But on the hill the golden rod, and the asters in the wood,
And the yellow sun-flower by the brook in and autumn beauty stood,
Till fell the frost from the clear cold heaven, as falls the plague on men, from upland, glade and glen. And now when comes the calm, mild day, as still such days will come, To call the squirrel and the bee from out their When the sound of dropping nuts is heard, When the sound of dropping nuts is heard,
though all the trees be still, And twinkle in the smoky light the waters of the rill:
The south wind searches for the flowers whose fragrance late he bore, fragrance late he bore,
And sighs to find them in wood and by
the stream no more.

The Approach of Age.
The approach of age shows itself about the eyes. Lines come, faintly at first, then deeper, ntil the incipient crow's-feet are indicated, developed, and revealed. The woman who, looking in her glass, sees these fatal lines diverging from the outer corners of her eyes, knows that she has reached an era in her life. he recognizes it with a sigh if she be a vain, ovely, or a worldy woman; with a smile, per aps, if she has children in whom she can hive her own youth over again. But we should ray be seen on the lookout for crow's-feet gry hairs. Looking for them is sure to bim ears form parg abou hich is eloguent enough when sparingly used, which should be sparingly used for other rasons than that of adding to their mute elo tuance, Tears are a disiguring expression of motion and those who get in the habit of eeping over every small vexation do much to cquire a careworn, miserable expression, and re sure to look old before their time. Few women look pretty, or even interesting, in tears; though it has long been a pleasant fiction in poetry and romance to suppose that they do Many women, some men, most children, mak most disfiguring and distorting grimaces while crying; and the lady who thinks she can work upon a man's feelings by a liberal display of of producing them, before her looking-glass. Grimaces soften no heart; and tears, accompan led by the usual distortion,
effect, if not a visible one.
In a prettily written work, now probably ont of print, purporting to be the story of the life poet an Milton's wives, the author makes the they resembled "'the sun's clear shining sfter the rain,"-a very pretty natural object in
deed; but, during the rain itself, the observe is not inclined to be complimentary.

## ©he gittle (1)uts cinlumu.

## Golden-Rod. by m. r. Colquitr.

Oh, mamma, I've heard such charming new
From the Bobolink down in the lane; He knows many beautiful stories,
nd promised to meet me again.
He told me about this rish Golden-Rod, And whence came its glowing hue; And I'm sure the bright little gossip
Wouldn't care if I should tell you.
He says when dear little Titania
He says when dear little Titania
Was proclaimed the fairies' Queen,
There was such a splendid banquet Whas proclaimed the fairies' Quee There was such ar splen seen.
And Titania's gorgeous costly robe,
All puffed with fold on fold, All puffed with fold on fold,
Was made of a suuset tissue Of shining dazzling gold.
The Knight of the Topaz Helmet
Was chosen to dance with her, And he tore her beautiful court trai And he tore her beautiful court the point of his diamond spur.
The wonderful exquisite fragment
Hyuttered about in the breeze,
Now lighting the spears of the bending grase,
Now floating among the trees,
Now floating among the trees,
Till twas caught by the old head gardener,
Who gazed at it long, and said: Who gazed at it long, and dsaid:
"This fugitive flying sunbeam "This fugitive flying sunbeam
Has put something new in my head,
And our loyal lady's accident Has strangely given a hint,
And furnished me just what I longed forAn idea of shape, and a tint
For the flower that must be ready, As soon as the dancing is done, To present to our lovely so
In token of fealty won.
I'll take its form from the flashing plume Of the Knight who threw in my way This fleecy fluttering fragment,
So delicate, dainty, and gay.
And if she accepts the token, And id she accepts the token,
And prints with her gracious hand The mystical sign upon it That shows it from Fairy-land,
I'll blow its seed to the outer world,
And scatter them over the sod, And scatter them over the sod, And christen my feathery favorit
Queen Titania's Golden-Rod."

## How Mistress Speckle Celebrated

 Thanksgiving Day.'Twas early in the morning
Of the glad Thanksgiving
D
Of the glad Thanksgiving Day,
Were joyous, blithe, and gay
For the dinner was preparing,
And the folks from out of town
Were hastening home to help us eat
We children were exploring The red-roofed barn for eggs, No fear of broken legg.
For the boys were bold and daring, For the boys were bold and daring,
And the girls --were Tom-boys, too And the girls--were Tom-boys, too,
And the hens looked on in wild amaze,
And round about us flew.

- Sxid our youngest pet and darling,
"I'm so glad I'm not a hen ; For they don't have a Thankful day, Nor dianers, nor"- ${ }^{\prime}$ ust then
Uprose our gray old spockle
From her nidden nest near by,
And passed us with a merry cluck, And crosted hoad on high ;

While close behind her followed The darlings hatched that day,Twelve dainty, downy, flatify chicks,
"Some yellow and some gray. "Clucc, cluck," said Mistress Speckle, "Here's one thankful hen, you
Who says that this is not a, glad
Thanksgiving Day for me?"
mary d. brine,

## The ,Two Cheshire Cats.

bY A. p. wiluams.

Said the first Chessy-cat to the second Chessy"Dat: $\begin{aligned} & \text { "Dou ever see a Chessy-cat pout ?" }\end{aligned}$ Said the second Chessy-cat to the first Chessy"Did : you ever see an oyster walk about? Said the second Chessy-cat to the first Chessy"Did : you know that a Chessy-cat could Said the first Chessy-cat to the second Chessycat:
"Did you know they make tin-dippers out
of tin "" of $\operatorname{tin}$ ?"
Said the first Chessy-cat to the second Chessycat :
you ever see a Chessy-cat cry?" . Said the second Chese "Dat: you ever see a snapping-turtle fly ?"

Said the second Chessy-cat to the first Chessy "cat": you know that a Chessy-cat could "smile?" Chessy-cat to the seoond Chessycat:
Did you know it took two halves to make a
mile Said the first Chessy-cat to the second Chessy
cat: "cat : you ever see a Chessy-cat weep ?" Said the second Chessy-cat to the first Chessy cat :
"Did you ever see a weasel fast asleep?"

Said the second Chessy-cat to the first Chessyoat :
"Did kou know that a Chessy-cat could
laugh ?" Said the first Chessy-cat to the second Chessycat :
"Did you know there were two quarters in
a half Said the first Chessy-cat to the second ChessySaid the
cat
"Did d: you ever see a Chessy-cat swoon ?" Said the second Chessy-cat to the first Chessy "Did you ever teach an elephant a tune?"

Above all, no Zeal.
A collector enters an old curiosity shop in Paris and enquires the price of a set of old Dresden.
"Twelve thousand francs, sir! Genuine, and you'll see how carefully it has been repaired, so carefully indeed as to add to its value. Besides, sir, it is a historical relic. That, sir, the very identical service of porcelain which Napoleon dashed te the ground during the pre liminaries of Leoben."
"We-ell, I don't much like broken"-
The merchant, eagerly-Then, step this way,
sir! Here is the same service in its unbroke form, for the same price.

## ©ommercial.

Thi Faruig's Advoante Oryos,
London, Ont., Oot. 1 , 1885.
Three weeks of fine, dry weather has done a great deal for the farmers. The corn has ripened up nioely, and many fields of late oats that looked hopeless the first week in Septem ber, are now safely in the barn or stack. Clover, seed-beans, potatoes, \&o., can be got in in good
condition. Fall wheat that was sowed early is onoon. Foll while that just put in the wrond will need rain before it will matemuch ground wit
progress.

## wheat.

Wheat had something of a boom in Chioago during last weak, the range for October being 81@87. The commission and speculating element in the large centres have become weary of the moderate degrees of life in the trade, and recognizing the difficulty in accomplishing any thing effectively in the direction of further depression in values, under all the surroundings, have seen the desirability of giving as much force as possible to an upward turn, and when the Roumelian affair was announced it was grasped as the occasion for exciting the market and putting into form a boom. But exactly Why a quick and sharp advance should ronalt xisting difference between current values and n exporn not easy to explain. The movement.
compared with last year is a long way short of 1834. The movement for some time to come may be greatly below that of last year, which may give stimulus to trading and to values. But this will not dispose of the wheat, and if the com ing winter crop receives a good atart, and maintains a promising condition and outlook later on, the extravagant prices talked of by some will probably not be reached; while on the other hand, if any serious discouragements over Lake the coming crop, much higher prices will surely result. The season for seeding has on the whole been very favorable, and is said to be all that could be desired in the States. The stocks of wheat and corn at nineteen the Rocky Mountains, in transit from the West Rocky Mound and afloas on the ocean destined for Great Britain and Continenta Europe, on dates named, were as follows:
$\begin{array}{lll}\text { Total, } & \text { Wheat, bu } & \text { Corn, bu. } \\ 9,394,000\end{array}$ $\begin{array}{lll}\text { Total, Sept. 14, } 1885 \ldots . . .55,568,000 & 9,394,000 \\ \text { Previous week. } \\ \text { Total, sept. } 15,18 . . .56,444,000 \\ 7,869,000\end{array}$ $\begin{array}{rrr}\text { Total, sept. } 15,1881 . . .40,064,000 & 7,154,000 \\ \text { Tocal, sept, } 17,1883 \ldots . .43 .236,000 & 17,393,000\end{array}$ $\begin{array}{rrr}\text { Toual, Sept, } 17,1883 \ldots 43.236,000 & 17,393,000 \\ \text { Total, Sept, } 18,1882 \ldots 36,027,000 & 8,345,000 \\ \text { Total, Sept. } 19,1851 \ldots . .41,065,000 & 28,083,000\end{array}$ Total, Sept. 19, 1851. ..41,065,000 $28,083,000$ This ind 1884-5, but not for previous years.
The following shows the exports of wheat and corn, including wheat in flour, from al American ports and Montreal, from
1 to Sept 12, for the years named :

|  |  | Corn |
| :---: | :---: | :---: |
| 18 | 2,562,000 | 1,387,000 |
| 1884 | 7,450,000 | 923,000 |
| 1883 | 5,988,000 | 2,040,000 |
| 1882 | 8,083,000 | 59,00 |

The following table shows the number acres in wheat in the United Kinfidom for ton years, compiled for the Cincinnati Prices Cur-
rent from official data, with the average yield per acre and the production in bushels each year, as por authorities upon these mattera
 $883-8+\ldots$. 188283
$1881-82$
1880.81
$1879-80$ $1899-8$.
18879.
1877. $1876-77$
$1875-76$ .2 .745367
., 717.902
$.3156,784$
$2.969,603$
$.3065,895$
.3056 .898
$.3381,701$ $.3,321.065$ average annual production 84, 507,234 years is $74,447,737$ bushels. The estimate for the season just ended is 521,169 bushels below the average for the ten year period. Other estimates are considerably higher-that of the London Times reaching $78,660,000$ bushels for Great Britain

## hive stock.

The special despatches contain more satisfac tory news of the British cattle trade, which for the last three weeks has been completely demoralized. The improvement is due to smaller receipts from Canada and the United States and a better inquiry, while supplies from other sources have fallen off somewhat. At Liver pool to-day the market was visibly better, There was a steady demand, and a fair volume of business was done at higher prices, the advance being equal to half a cent per pound. A better clearance was effected than for some Fair to choice grades were at 12 . poor to miam and 11 , and inferior and bulls por 7 , 90. The sheep trade has shown no change Best sheep at Liverpool to-day were at 13 c , secondary qualities at 11c.@12c., Merinos at $10 \frac{1}{2} \mathrm{c}$ @11 $\frac{1}{2}$ c., and inferior and rams at 8e. @9 $9 \frac{1}{2} c$. All the foregoing quotations are calculated at 480 in the $£$. Lressed beef is lower.
The following were the exports of live stock from the port of Montreal for the week ending September 26, with comparisons



It is a grest mistake to hold July cheese just because buyers won't pay what the salesmen think they should get. The result of this holding off has been that here have to New Yol and Montreal Foctorymen in New York State have oold oll July and August, and in some instances September was sold this week. The effect of this is that our July and early August cheese, which are more or less off flavor, have to compete with States September cheese.

The Utica Herald of the 29th Sept., says :
It well be seen by a glance at our table below, that the receipts still continue much maller than last year. The claim will be made in New York that this is because the
cheese is held back in the country. We can not speak for other sections, but in the district represented by the Utica market. and we believe by the Little Falls market also, cheese is sold off quite as closely as it was last year at this time. And we are inclined to believe that there is no greater accumulation in the at large than we had last year. Septemb and the make is undoubtedly fine. With these points in its favor, we have a riyht to expect much better prices for this stock than fur any other of the season, but at the best it must sell considerably lower than for a number of years past. There is too much of it, both here and in England, to look for any such boom as we had in 1879. Foilowing is our usual table of quotations :

##  <br> 

Butter remains in just about the same condition, and nothing of a stirring character can be little trade in motion. Creamery continues to be held in the country far above the market, which at once precludes any attempt to do business for the present. Shippers could not pay more than 22 c. for a choice article in creamery, but there are no sellers at that. Townstips are quoted in Montreal at 15 c . to 18 c ., and western at 12 c . to 15 c ,

APPLES
There is an abundance of fall apples, in fact too many. We think farmers would do well to check the production of fall apples. Winter apples are much safer to hande, to care for, and the chances are that you can sell at some price, whereas we are told that fall apples ale going to waste in some sections.
A late apple circular says: "Crops in Eng. land at one time promised to be good, but
owing to the dryness of the summer many have fallen. This is more particularly the case with the winter sorts.
"Germany has
"Germany has only half a crep, and not "Holland, which usually export
largely to largely to this which country, has valy very
sorts, and they are of sorts, and they are of suall size."
"Belgium-T
of the sorts being report is a little better, most of the
small.
" Fra
"France-The reports vary considerably ; in some distiic
other section
half a crop.
half a crop.
"Couparing these reports with those of past seasons, we shall waut a large quantity of Canadian
sorts.".
 astrus. ${ }^{\text {catrus. }} 7.854$ the Receipts 8,995 , against 7,854 the previous week. The
cattle market opened up on Monday with v.ry heavy recipts, over 200 car loads being on sale. The demand lower than on only tair, and prices averaged 1 1٪25 conts steers sold at $\$ 6$, but the bu k of the beat went at $\$ 5.50 \mathrm{C}$ 75 with fair to medium at $\$ 450 @ 485$. mived buthers
tock menld












 shrb


Receipts, 39,167 , against 37,203 the previous week. The



W. J. Rud, Artices.
Rudd, exhibited some Ont., sucesesor to Geo. Geo. Rudd, exhibed sone very fine Devons at the
Provincial and Industrial Exhibibitions. Jostout I Lovent's Guide to Frait Calture, J. Taining 60 pages, handsomely illustrated. Just received, Vick's Floral Guide, contain-
ing $a$ complete list of all kinds of flowers ing a complete list of all kinds of flowers,
grasases jand garden vegetables. James Vick, ${ }^{\text {graseses }}$ Rochester, $\mathrm{N} . \mathrm{Y}$. Y .
We have received the annual report of the Ohio Agricultural Experiment Station, It departments of field and garden culture, with
an extensive list of experiments conducted at an extensive
the station.
In spite of the great advantages attending onr excellent, it expensive, bystem of educa-
tion, there exists, however much we may regret
 suhijects so palpable as to induce many parenter
to seek nther means to insure their chidrens more efficient progress. To attain this desirable end and oupply the much felt deficiency, private institutions of no ordinary merit have gloeted brapohes of ofudd are so appobly taught by thorongh and siilluul teachers as to domon.
gtrate beyond diapute that the long desired strate beyond diepute that the long desired
object has been gained, and those who have
 of the private academy, are not slow to ac-
knowlecte their superiority in many respects Enowledge their superiority in many respecter
over the public. schooos. Nor does the ystem
 vidious distinction necessary with regard to
the ase or attainments of the popils, but is the ase or attainments of the popposer years
 a wyers and many of the judges in this vicinity public schools, at the private seminary of teacher in this, sity. The increasing popularity
of our commercial colleges and ladies seminof our commercial colleges and ladiest seminaries points out indisputably the fact that pri.
vate tuition is in every sense eminently successful. We are happily enabled to exprests ourselves without tesitation upon this subject, the
evidence of our own chuldren several evidence of our own chldren, several ot whom
were educated in privaie establishments were educated in privale establishmeats,
affording us the opportunity of forming a a criti: cal opinion. A short time since we visited the Buffalo Business Cullege, probably the most
complete instioution of the kind in the United complete instioution of the kind in the United
Statese. Their suite of rooms is considered to
The be the most elegant and best equipped on the
continent, with a staft of continent, whe astar of masters of whom the manazement may be justly proud. The Do.
troit Business University also merits the patronage of a discriminating public. A Among those of Ontario whose reputation and stand
ing are well deserving of notice, may be men ng are well deserving of notice, may be men
tioned the Canada Business College, Chatham; Hamilton Business Cullee e; Ontario Bnsiness college, Belleville, Lond , sity and Telegraphic and Phonographic Insti ton; the Forest City Basiness College, London; Oatario Ladies' Colloge, Whitby; Alma Ladies
College, St. Thomas; besides numerous others all of whom, we believe, employ a competen staff of instructors whose ezeal and energy are onited in their one sole aim, the improvemen of their schools.
$\qquad$

Dr. J. B. Lawes reports to The London Agriotherwise fed alike, the one receiving mangels yielded 281 gallons more milk during the ex| periment tial of thirten weeks than the one |
| :--- |
| supplied with clover-silage. |
| $T$ wo of the ormer | supdied with cover-silage. Two ot the orrme", than any two in the latter, but the Professor

concludes that the difference was in part due to concludes that the difforence was in part due to
the daet of the roots bieng a more appropriate
addition to the dry food.





## NEW ADVERTISEMENTS.

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ands in use. Illustrated Circular Iree. Manufactured by 233-h FENNELL \& ANTHES,

STOCK NOTES.
Continued from page 304.
T. Breckon, Esq., of Glencoe, recently pur chased from Mr. Anthony Hughes his three year-old filly Molly Muldo
prize at the last Provincial.
Mr. F. W. Stone, of Guelph, Ont., writes I have made the following sales of sheep, vii., 70 Southdown rams to Messrs. Geary Bros., London; to D. A. Macdich, Glen garry, one Cotswold ram and eight Cotswol
ewes; to Hy. Arkell, Arkell, Ont., one Cotswold ram.
Auction Sales. - Messrs. Cowan \& Patter son purpose holding a joint sale of high-bred Shorthorn cattle and Shropshiredown shee from the Clochmohr and Eastwood herds. Sal John Washington, of Auburn, Ont., will also John a public sale of thoroughbred Shorthorns
have a
and Oxford and Shropshire grade sheep, Oct. have a $p$
and $0 \times 1$
2nd.

Percheron Horses.-A telegram frem New York announces the arrival, Sept. 8th, of the steamship Holland, from Harre, Fronce, with This stock, numbering one hundred and eighty head, was purchased in France and importe Illinois, and is the first of his series of impor tations for 1885. The horses, among which ar nine French Coach stallions-splendid speci mens-arrived in good order and wr. Dunham's own improved live-stock express cars, to
"Woaklawn Farm," Wayne, Illinois, arriving "Oaklawn Farm,"
there about Sept. "llth. Overfeeding is the most common and most nil We even overfeed, and so greatly harm, ourselves and our children. A large proportion of the exceedingly numerous eatheameeding, and and young children is due to overfeeding, aner
if we cram our children to death it isno wonder we should make the same fatal mistake with young chickens, calves and pigg. It is quit
safe to say that 90 per cent. of all the disorders of these young animals results from overfeeding. A shepherd will more easily raise 99 per cent. of his lambs than a farmer will rear so pe is
cent. of his hatched chicks, and the reason cent. of his hatched themselves, while the chick-
that the lambs feed ens are fed and crammed as long as their little crops will hold one more grain of food. Then weak and puny and fall a prey to the gape worms, or they hecome paralyzed or mope about with ruffled feathers until they die.
In reference to the prices of cattle in that State, the Texas Live-Stock Journal, Fort Worth, under date of June 13th, says : varied very little. Indeed, the transactions on which cattle quotations have been based have been at figures very close to onr quotations of
two months ago. The prices now are as follows: two months ago. Panhandle-Strictly first-class yearlings per head, $\$ 15$ to $\$ 16$; two year-olds, $\$ 19$ to $\$ 20$; cows and calves, $\$ 30$. Western Texas-Year-
lings, $\$ 11$ to $\$ 12 ;$ two-year-olds. $\$ 15$ to $\$ 17.50$; lings, Yearlings, $\$ 9$ to $\$ 10$ two-year-olds, $\$ 13$ to $\$ 14$; cows and calves, $\$ 23$ to $\$ 24$. Southern Texas-
Yearlings, $\$ 8$ to $\$ 9$; two-year-olds, $\$ 12$ to $\$ 13$; Yearlings,
cows and calves, $\$ 20$
Yearlings, to $\$ 62$. Eastern TexasYearlings, $\$ 6$ to $\$ 7$; two-year-olds, $\$ 10$ to $\$ 12$; cows and calves, $\$ 17$ to $\$ 20$. These prices are
for stock delivered on the ranges where raised. So far as we are able to ascertain, cattle can be had at the prices above, but not less than the lowest figures for any class given, and the only
concessions known have been in the locality of delivery. These figures are $\$ 4$ per head lower dhan prices paid last year in every instance. These prices are strong, and will go no lower.
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[^0]:    I like the Farmer's Advocate well ; get a great many useful hints and valuable informa it the best journal of the kind on the contin ent of America. C. F. Simpso

