

## $\mathscr{Z} O U L T R Y$.

## chuck and ciricis.

The percentage of loes of young chicks is no inconsiderable iten, especially with thuse who do not give the lledglings the very beat of care and attention at the time they need it so badly. The mere hatching is the least duticult part of the breeding and management, the real trouble, care end expense commencing or dating from that time until the bieds are able to care for themselver, in a great measure. It is safe to say that many poultry raisery lose from 25 to 50 per cent of the chicks they hatch out, which matenally increases the price of the others, and to reduce this loss to the minimum should be the endeavur of all who wisil to realize a fair profit frum their puultry.
lampnes is almost always fatal to the young chicks while in the "duwny state, " beiore they have gutten their full compliment of feathers, and to ayoid the luse, movable buard buttums should be uade for the cuops, so they du not have to rest ou the damn ground. Early in the morn, while the dew is un the ground, the cluck and leer broud should he cunfined to the cuop, and only left to
run at large when the nrass is dry and the weather wanm, and on raisy or murky days they shonld be kept cunfined. Another cause of sickuess and dealh amonst young chicks may be traced to feeding tuo soun and tou liberally un cornmeal, which is tou strong anid heating for the yound birds. A leeter plan is to feed the chioks, until twu ur three weeks old, on stale bread, either scalded or moisted in milk, both of which are nourishing and a rule they do not remjurive water when fed on this food, and quite a number of our breeders do not supply the young wirds with any water supply the young wirds with any water
until well grown, believing that water until well grown, believing that water
induces diarrhura and its acconpanying maduces
rexults.

C'omfurtable, roomy coops, and rainproof unes, should be supplied and the clack had better be confined until the chicks are at least two weeks old before being allowed her liberty, else she is apt to take such ing strolls as to tire out and lose quite a number of her brood. Rats are very find of young and tender ehick and particular attention must be paid to the rodents or they will soou claim a greater part of each brood, to their delight and your diegust and luns. J'ullery Murithly

Duv'r let your hens set now unlexs you waut them to hatch. To break

The best runs for poultry are where grass and gravel are plentiful. Gra: runs are of great value where they can be had, but they must be large if fowls have cunstant access to them or the grass will soon cease to grow. Where the space is limited the fowls should only have access to them for 8 few hours each day, or every other day, but in the meantime should be supphed with all the greens food they require.
Grasis runs and shade are prime necessities for both young and uld towls. Young chickens should be kept out of high grase, especially when it is wet whih ram or dew. A sruouth, cluselyshaven lawn is just the thang for their ast, for they will find an abundance of insect fond, sun and shade and plenty of agreeable exercise. Small trece, currant bushes or a shrubbers where the fowls run will be fuund serviceable in warm weather, and a prutectivu against hawks. The pieasure which fowls find in scratching the luose carth .rr leaves under the shade of trees ts quite re markable. nearly always there is not sutticlent corculation of air, but the thatk basthes of a wide-sprendung tree afforl it, and of the best quality.
It would be well fur thuse whe are limited to a garden to set apart a pur tion of it as a grans run for there fowl. Hens at liberty do letter, and although some fowl ketpers:growl aluat the destruction they do to flosien bedo and garden crops, they never take mitu account the myrlads of wurlayin' ula, Lug's
 that would if unmulested destruy muse vegetable and fruit crups in a siugla vegetable and fruit crups in a siughs
season than the fulbl would vidinarily season than the fulvo would uldinarily
de during their catural lives. -I'valtiy iMonthly.

Some farrners complain it does nut pay to keep chackens. We are nut as tonished to hear this, when we know how careless and slovenly they are usually raised on farme. Chickens will pay if they get proper care, but never whan kept in a shnphod way. Now it is not a very diffizult matter to take care of a half dozen bruuds of chachs. An hour each day will be all that is needed, and if a few slathed feed buses are put near the coops where the chickens can have easy access, it will natho the labor much lighter and shorter.-Ex.
Earhy chicks are eavily raised. A hen properly fed can in culd weather stay on the nest two days withuat injury, Of course this would nut need to of setting but only during a cold saap.

## chicken cholera.

Commisssoner Leduc has issued a paper from the Deparment of Agriculture upon chacken cholera, giving the resulto of some recent experiments made unter the direction of the depattuent, by Dr. Salmon for the prevoution of this very troublesome disease.
Dr. S. says :-Fur this disease a very cheap and nuvt effective disinfectant, is a solution made by adding three pound of sulphuric acid to furty galpound of sulphuric aciu to furty gallons of water or one fourth poual
sulphuric acid to three aud a half galluns of water, and mixing evenly by agitation or stir riug This niai be supplied to small surfaces witín a small watering put or tu larger grounds with a barrel munte.' un wheels and arrauged like a street spriakler. In cisinfciturg pualtry huises the manure nust le first th. ruughly suraped up and renm iod ley und the reach of the fowls, a slight sprinkling is nut sufficisnt, but thi, flu,rs, ruosts and gruands must be thurulghly saturated with the sulution thurulughy saturated with the sulutiun
su that hu particle of dust however su that nu particle of dust huwever
small cenapes lueing wet. It is impussuall conapes being wet. It is impus-
sible u thorughly dionafech if the manure is nut semovel foom the roosting places. Suluhuric acid is very cheap, custing at retail not more twenty five vents a buund, and at wholesale but five ur six cents ${ }_{2}$ the ivaries of disinfectity solution can, therefure, be made ful les: than a dullar and should let thorulthity appilied. It noust be remathbeted, tho, that sulphutic acid is a damervus ding; to haude, as when undiluted it desti"us, cluthing and catuten izes the fin whereper it toultes. Kansts murner.
first points in the manageMhant of chiceens.
Years ago I commenced on a small scale, trying to make a little money. by raiking clickens and seling engrs. It by raking chickens and seling eprs. It
was rather up hill work. Every ill was rather up hill work. Every ill
that could hefall chickens cause upon my brouds. If I had a fine lut hated ny bruods. If
oit, they would a fine ge let hatch
drowned, or have the gaps or some otaer ailments that was sure to carry them off before they were well feathered out. l'sually jutt as they were hatching, there would colme up a heavy shower that would fuith them off, and the mother bon would cluck around with threo or four chickens. One vear I had abri, ut a huudred chicks hatohed out, writhout any seciots accident. I ied them on corn meal wet with mir. Th. They would eat well, ghe in P. eout two hours they Wuald tumw wer, kick a fow times waid be mesug morning four or tive
tive came to make me a visit of a few days, and I asked fur th. Wenelit of her wisdom and practical knowledges she told me not to feed them at all until they were twenty four hoursold, the best food to give them wem heing bread suaked in milk with the mulditing of pounded crockery she said I must always have chicken food well suaked and swelled before it is led to them She thought that the callion of so inany of niy chickens dying, was simply fred ng them on dough just mixed, aud they filled their hittle crups so full that they filled their hattle crups so thll that
when the food swelled it burst the thin when the food swellers it burst the thin
skin, and so of course they died. Ih pounder crockery wos to help nake their food digest.
I asked her what I shor ald do when they had the gapes. "It is better to prevent their havin them," she aid "by stirring un a olicle sulphur with their food, on cee ur twice a week, and a little blayl. and cayenne puper. Giving thrin stilphur aire pretesin, their gett:ns i suy, and addy to their foud cond hon and, and adds to their goud is covered with. lice will Le thenk and is cuvered with lice will Le "to.k and
puny." She suid that Indan curn and puny." She suid that Indian curn and
wheat bran ate food foud, usluh nur milk to wet it wha. Sisur cund given oa nally, $1=$ guvil. They mant al way nave wates chough ou drank. I tuld her that ey hens hevier lank. well in the winter, alth ugh 1 fec.l then w.ll. She gave several seanulan for the -ficeding tov muih, so as lo fatted thent, oi they needed lime, butice, chatcoal, ur warm water to drihh, aud alove all a warm place to live iu.
I alsu askeal her whe iu.
that Isu ayked her why so many eggs that I set not es hatched vat. she ad.
duced variuas causen. duced vartuns causes:-jerhapy $t$ err
diet was une reason, auy article of diet was une reason, any article of
foud that makes the whice of au ene Suod that makes the whine of an ebge Wheat is the best for laying heus, swetled with hot water. Cayenne pepper unce a week makes hens lay, alsu cerint eat meat, burned bones, ch. acis eaxily enough by givng ther medied easily enough by giving ther in clear tal.
low to tat. dow
My aunt closed hor saying that there is as much stior ace requared to under. stand rasivid ace requred to umdersudying astroiomy, and poultry as is in paysh etter, especially when pernaps it enty-five or chirty cuats a dozen, and the heus lay weli.-Farmer's wife in Country Geatlimen.

Don'r fuss too much with your furls. Give them pleuty of good food, cianar pure wacer, ajd get isern tame. Change food occasionally, and m setting, get thew as near the cround as posable.

## $S T O C K$.

## SKIEEXX AIJI WOUT.

W. D. Crout, in the Ohio Farmer, gives a very readable experience of his in the "Experience Items" in that paper. As there are many good hints in it, we Ieproduce it entire:
"The sheep boom, which reached its climax in 1872 , was gatheriog its force in '71, and the excitement began to crop out in various pays. Would-be purchasens were on the alert to find some honest Granger who " did not take the papers," and trick him out of a part of his money. My mind now recalls an unsuspecting old farmer who had a flock unsuspecting old farmer who had a flock
of cheep and set his own price at $\$ 2.50$ of rheep and set his own price at $\$ 2.00$ cloth and ashes for lus ignorance ; but nevertheless farmer-fashion, I doubt whether he even takes his county paper, much less a good reliable city or agricultural journal, Lilse an old man who once lived near me, and was addicted to horse trailing ; one day he traded for a horse that had four ringbones which he did not discover till he arrived home Sadly contemplating them in the presence of a horse jockey friend, he ex claimed, "I tall you what, Johu, here after the firit thing I look for will be ringbones." The old gent above referred to is donbtless on the alert for sheep men.

The year 1871 my sheep only shearcd a trifle ovar six pounds, and as I had passed through one boom I was deterpassed through one boom I was deterbuyers were thick and urging me to set a price, I at length concluded that if any one wanted my llock, lambs and all, at $\$ 5.00$ per head, and would let me se lect five eres, I would sell. Well, sbout November the man who wanted \$5.00-8heep came along, and the bargain was struck. No sooner had the news reached town that I had sold, than wool buyers told me I had fooled myself -that wool would be doubtless $\$ 1.00$ per pound, etc. But an old friend once told me to always sell when everybody wonted to buy, and that time secmed to bave come. The result al leastshowed it, although the fivesheep I saved sheared nearly torty pounds and raised lambs the wool from these five ewes bringing me an even \$24.
Well, my flock unow seemed to be in a somewhat homeopathic condition, reduced to asmall compars, and unliks the aliove system, not easily diluteci. But on the principle of "large streams from jittle fountaing flow," I commenced carefully bresding to suit my taste, which had been changing from the usual method of breeding fine-wool sheep. At this time it seemed to be the ambition of time it seemed to be the ambition of most breeders to see hov many wrin-
kles could be produced on the least surface, and as I had been eminently successful in that direction and had a flock that all the sheep shearers disliked to shear, and frequently indulged in "italics" while shearing them, I concluded to change the programme and breed large smooth sheop. Consequently I procured a large smooth buck, Frighing 165 pounds, and have aiuce increased in length of staple, heavier fleeces, and less gum (tally one for Bro. Powers).

It will perhaps be as well to mention that some of the Cotswold rams hought by the farmers during tie fever had failed to realize their expectations, and as many as I could use for shipping purposes were frcely bought at from $\$ 4$ to $\$ 7$ per head. Two large farmers in Chesterfield had spoiled their whole flocks and sold out bag and baggage, to commence anew with fiue-wools. I
bought one fucin if one hundin herd, bought one fucii of ono hondsiad hend,
and Ithink forlong-legged, bow-backed, slab-sided sheop they were the ne plus ultra of my experionce. This was the
result of crosing Cotaweld buck on fine ewes. The readers of thrs Former will perhaps remember that I once before clluded to this kind of cross, and warned them to aroid clossing in that way, but to cross Cotaswld ewo with Merino buck.
In the year 1873 I sheared ten head -five ewes and five lambs-obtaining about seventy pounds. Of course my lambs did not shear so much as grown sheep the first year, neither does any grade of fine-wool sheep I know of Coarse sheep, Leicester for example, shear more the first year thar ever afterwards. I speak of this more particularly now in consequeuce of what ticularly now in consequence of what Cephas says about S. E. M.'s flock in find by referring to my wool book that I can not give the correct amount as to average for the years ' 74,75 , and ' 76 , as I divided the fleeces as per direction of wool buyers who claimed that fleeces should be done up not to exceed six pounds. My health also being poor at the time, I did not take my usual interest in afiairs that $J$ do under other circumstances. A part of this time wool sold for only 27 ceuts."
Harr is perhaps as little understood as skin, until observation in practical dealing with cattlo teaches what sort of hair is the best for any particular breed to grow. The uninitiated in agricultural matters almost invariably take a sleek coat as their ideal of perfection "A little learning" runs to the opposite extreme, and makes the novice describe for instance, what he thinks the perfection of hair on a shorvhorn, as "fully that length," marking off half way down the back of one hand, with the finger of the other placed across it, the length from that part to the tips of fingers, and exactly like tho hair of the Bigh. land Senti. Nearar the trueconception of the best shorthorn hair was Mr. Hutchinson of Grassy Nook, when in a unique pamphlet he described Sockbum Sall as the cow whose "handling was rich and mellow, and her coat like glosey velvet, without a Highland hoir." Velvet scems to our notions now somewhat too sbort to afford a happy simile, but we don't want anything like the shag. giness in the coat of a shorthorn. The term "mossy," although not not extern1 "mossy," although not not exactly right, conveys to those who under-
stand the idea of shorthorn hair of the stight sort -London Agriculturist.

Tue color of the norn, as much as its form or is size, varies with the breed. Horns of ebon hate are prized when the wearer is a black Kyloe, woefully disliked when, in too faithful testimony to the forgotten facts of years long past, they sprout from the frontal bone of a shorthorn. The shorthorn breeder again, desired to avoid the chalky-white horn, which, in some breeds, is the right thing. The breeder of Hercfords, while agreeng with him in liking a color free from black, does not admire the clea sea-greenish horn so much admired by some breeders of ghorthorns. Small narrow-set, upturned horns, white-root ed and tipped with black, have the ap probation of Jersey breeders, and small but elevated horns, somewhat like the two sides of a parenthesis are the characteristic adornments of an Aymhire cow.-Agricultural Gazelts.

Never feed the young pigs on strong, concentrated food, such as ground corn, peas or other grain, alone. Give zailk (if obtainable) or water, with equal proportions of bran, shorts and boiled po tatres, or other roots or vegetables; if the bran and shosts can be icalded, so much tine better.
Toronso onl Company are olo manufnc ments will ba proseouted.

AGRICULZURE.

## TEE WVEIGET OF SOILS

It is impossible to determine the exact weight of any soil, as it varies according to its porosity, amount of water contained, the per cent of sand, gravel clay, etc., present. No one handful or bushel of soil from a field is identical with any or every other like quantity. The following figures are from John sn's "How Crops Fecd"
Dry sand weighs avout 110 lbs , por oubio ft Heayy olay Rich cardon mould Poat
A sand.y soil which is spoken of as light" is so becanse worked with greater ease than the "heavy" clay that weighs some 35 pounds less per cubic foot. "The resistance offered by cubie foot. "The resistance offered oy soils in tillage is more the result of ad-
hesiveness than of gravity." The specific gravity of a soil is its weight compared with the weight of an equal bulk of water. 'itho water: is taken as the standard of comparison, and its specifis gravity (sp. gr.) is called (1). A cubic foot of water weighs 62? pounds. By comparing the weight of various soils with this, their specific gravities are oblainde. The sp. gr. of gravities are oblainda. The sp. gr. of
good agricultural soils is not far from good agricultural soils is not far from
2.68 -that is, such soils are two and 2.68-that is, such soils are two and
sixty-eight hundredths times heavier than water. A cubic foot of it would weigh about $167 \frac{1}{2}$ pounds.-EX.

## DRUWING IN TVHEAT.

A writer in the Ohio Farmer gives an interesting paper on this subject from which we take the following extract:

You may drill in whes.t too deep to germunate at all ; put it in a little shalower and it may grow, but with very little vigor ; putit in still a little shal ower and you will find that it will grow still more vigorously. Continue on at this until you have some cover ed barely one-half to one inch deep and you will find that this shallow planting will grow with more yigor than any of the rest, provided always that the soil be moist and solid. Wheat will form two sets of roots. Stippose yon drill your wheat in pretty deep. It will come up but feebly, forming one set of roots at the grain, snother set at the surface; your wheat may
grow and look pretty weil in the fall, grow and look pretty weil in the fall
if it prove to be moist weather, but wait until freezing weathor in March comes on, and thawiug in daytime. Suppose you get a rain sufficient to saturate the surface soil, and at night get one of those suddon freezes, as we of often have in Miarch. The ground will be frozen tight to the whest at the curface, and in raising will snap the slonder stem between the two sets of roots, and if chis freezing and thawing should continue you will lose a good deal of your wheat. I have seen wheat in rich, black soil, in Wayne county, Ohio, so badly injurea in this way that although looking pretty well in early spring, when the dry winds and weather would come on it seomed to fade, and upon examination it was found to be so loose that it could be brushed
away with the hand. I have heard farmers say that the worms kad cut of their wbeat, when i was well satisfied that the frost had done the work. So well am I satisfied of the advantayes of having the soil made fine and solid for wheut that I havo come to value a good heavy, but small roller for that purpose I would as soon think of doing without a harrow as I would without a roller I think that making the soil solid for wheat is better, for at least two reasons: Your drill will not put the wheat in so deep $y_{4}$ and it will keop moist cnough

Where the graine lie to keep it $\frac{\mathrm{r}}{\mathrm{r}}$ owing.
The firut thing I use after of fied is plowed is the roller, then harros both Ways, and roll egain. Then I drill fine ground puro raw bone, putting on from 200 to 250 pounds to the acre, and ruuning north and south. Now I roll again and drill my wheat rows enst and West and across the tone, running my drill as ahallore as posible, only so it will cover the wheat. I sowisonly2 1 bushels to the acre. I do not want more. Last harvest I had only two mall fields; one piece of 44 acres was clover sod; had been mown two years then corn two years, then oata, then 1 put on a little barnyard manure where it was most needed, probably on half the field, then plowed and treated as deacribed. Wheat drillel in on the 12 th of Septembor. The other field, 61 acres, had bean an old pasture field. plored and put in corn; in the fall corn Plorped and put in corn; in the fall corn
cleared from two acrea, corn stubs cut cleared from two acres, corn stubs cut
off below the upper roots with a sharp off below the upper routs with a sharp
mattock and hauled off. Bone drilled mattock and bauled off. Bone drilled in 200 pounds to the acre (ground not plowed) Then I drilled in the wheat $1 \frac{1}{4}$ bushels to the acre. In the spring
the rest of the field $4 \frac{1}{2}$ acres, was put in potatoes, which made a fair crop. The wo acres of whent produced about 60 bushels. These two acres was then manured and the whole field plowed manured and the whole field plowed
for wheat. The $4 \frac{1}{2}$ acres whore the for wheat. The $4 \frac{1}{2}$ acres whore the
potatoes were had no manure for corn potatoes were had no manure for corn,
potatoes or for the wheat. I used 250 pounds of bone to the acte. Wheat arulled in on the 22nd of September. One of these fields is near the barn, and as we keep a good many chickens, thoy destroyed a good-sized piece of it, and yet I had from the eleven acres 378 bushala of choice clean wheat, no cockle and no chess in it. This makes about $34 \frac{1}{2}$ bushels to the acre.
I will say here that about four acres of this ground has had no barnyard manure in twenty years. There has been great improvement in the handling of the soil in our (Washiugton) to wninip in the last ten rears. I made the prediction some five years since the prediction some five years since
that this township would yet produce 50 bushels of whent to the acre. I was laughed at for making the prediction and called foolish, at the time. But since harvest one of my neighbors, in speaking of it said to me, "I guess you were pretty near right for all", and I expect row to accomplish it if I live, as I hai this year $47 \frac{1}{2}$ bushels to the acre average, on one field.

Aghiouritane can not be carried on by any rigid rule. The soil of no two fields is precisely alike, or would be alike benefitted by the same treatment No two seasons are precisely alike. All is variety and change. Intelligent farming is learning to adapt methods to condition and cirumstances. There are fixed principles that apply to each condition. The man who masters principles can become a moster in practice

AN Indiana farmer tricd four difforent fertilizers for melons-poultry droppings, well rotted cow manure barnyard manure, and old bores (gath ered upon the farm and reduced by placing them in alternate layers with ashen the previous year) mixing all liberally in the different hills, which were cight feet apart each way, and he says: "such a crop of melons as came from the hills that had the bone dust I never saw before."

How sad whon lovely woman show by out Tho Deathis carg wioldod by tho band bouigu How fled whon death relonting, shoatho


OFHICERS OF TEL ONTARIO BEH KEEPERS ASSOCIATION.
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Woodntook; Dr. Euncan. Embro.

## bee farming.

Evidonce of the Hon. Louls Wallbridge
 Conthudd from lust wank.
9. Whence do you secure your supply of queens, and what queens do you prefer for the improvement of the stocks?

Italinns, thus far. Originally, weimported Inalians from Quinby, New York, Lnugstroth, Ohio, Dudunt, Michigan; but now we have as fine bees as can be imported, rased here. W. C. Wells, of Phillipston P. O., raises as fine as I have Philipston P. O., raises as fine as inave ever seen. Ho will shortly raiso Cyprus
queens from Jones' importations from Gueens
10. Whas quantity of honey does a stock of bees average in one searon?
Last year, 1879, a very good year, each hive, taking that as the basis of calculation, averaged 98 pounds, extracted. This is more than a general average-perhaps 75 pounds would be a fair nverage; 40 pounds would be a fair average of box-honey. I have taken 101 pounds from one hive, and a swarm, box honey. This is extraordinary
11. Is the avorage as oool in quan. tity and quality in your district ${ }_{\text {as }}$ in other countries or in other parts of this Province?
Fully up to the best. We think the white clover and bass-wood the best. The thintle is excellent, but not so aburdant as to quantity. I find the abundant as to quantity. I find the bee-keeners overestimate. The occu.
pation is of an exciting character, which pation is of an exciting character, which
may account for it. My opinion is that Ontario is one of the best, if not the best country for bee-keoping on this contiaent. There are in all the accounts Jou see published a great deal of brag, for which allowance must be made, expecially in the United States.
12. Do you aulopt any method of supplying the becs with comb?
. C. Wells manufactures exceilent foundation both for the Brown cham. ber and honey boxes or supers. There are other manufacturers of foundations in this county as well as Mr. Wells, Levis Searles, Foxboio' P. O., is one of them. Every intelligent bee-keeper arses foundation either for the whole frame or as starters.
d3. What kind of hive do you consider best :
The Laugstroth. I profer a modifi-cation-a little deeper and shorter. The contents ought to be about 2,000 inches cubic.
14 With pure-bred queens, do you find any dificulty in keeping up the purity of your stocks ?
Not much. It requires attention, but can easily be done. The drones of bybreds are pure.
15. How do you feed your bees, and in what way sre they protected in winter?

Only bad bee-keepers feed bees, or in a poor bee country. A little food in apring to stimulate is of doubtful good -the quicter the better in the spring.

We winter in wintor depositarlea, tem. perature at $41^{\circ}-45$.
16. What is your theatment of the bees in wet seasons?
Our climate makes no demand for extreme drouth or extreme wet. Thene are great diosalvantages under which we do not lahor.
17. What class of honey commands the best salo in the foreign market?
Clover, bass-twood and thistle. I have been surprised at the preference in Eng. land for buck wheat.
18. How is the foreign trade in honey carried on?
Only in its infancy ; generally individual consignments to persons with
19. Is adulteration have been formed. extent, to the prejudice of the honest extent,
dealer?

Not at all in Canada.
20. What insects are destructive or injurious to bees?
The moth; but with a good hive, the Italians protect themselves. The writer has not seen one this year.
21. What methods are hest adapted to counteract their ravages ?
Good bives, strong colonies, and attentive bee-keepers. The moth is a just punishment for the inattentive sloven.
22. To what diseases are hees subject; and are stocks often lost from such causes?
Foul brood is the coly disease; never heard of it but once in this part of Canada. The best care is to burn the whole thing up, and begin again. This is the cheapest-the labour of curing fisul brood costs more than the value of the beos.

## THE CXPRIAN BEE.

nev. l. l. langastrotit in "aleaninos."
At last we have ample means for judging of the temper of this bee, as sbown in their native island, where no questions can be raised as to their absolute freedom from mixture with other lute freedom from mixture with other
varicties. In a private letter to me, varieties. In a private letter to me,
Prof. Cook, of Lansing, says of Mr. Frank Benton, who las done this good for us, "He is scientific in his methods and habits, very earnest and unthusiastic, and lonest to the core." Writing out of his large oxpericace with them, in a season uufavorable for honeypathering that, if they posseised any anmanageable irritability it cusuld not fail to show itself, Mr. Benton gives fuil to show iseelf, Mr. Benton gives
them the palm, even over Italian bees, for easy control in all aecessary manipulation.
Two years ayo Mr. ALuth, of Cincinnati, after weighiug all that our Ger man friends had to say about them, agreed with me in doubting whether their decidod merits in most respects were not more than counterbalanced by excessive irritability. Mr. Beaton's explanation of the simple methods by Which tney may be kept peaceable has disipated these apprehensions, and I
am strongly inclined to think that we am strongly inclined to think that we have been fortunate enough to secure a strain of bees which unites the best qualities of both the blacke and Italians. After a large experience fo many years with the last-named races, I came to the following conclusions:-
(1) Where late forage is saarce, the Ital. ians stop bredinuy much earlior than the lachis.
In Oxford, where, after the second crop of red clover fails, bees usually the Italians, unless artificially stimulated, raise so little brood that they go into winter-quartors with too few young bees. Under the same conditions, young bees. nder the same conditions, rarely ceasiag until after severe frosts, and often perssating in it when they have not honey earough to last them
for more than a few weeks. Now, the evidence is quite conclusive that the Cyprians, like the black", are strongly given to late breeding.

The Italitios, unks stimebated by judicious fecminy, di, ust raviuru: bresdiay as judicious fecting,
tarly as thr Mocki,
In Greentield, Mave. (see p. 339, 34 ed. of my work on the hive and honey bee), where I lad only blacke, the Dec of 1846 was extremely cold. January, is47, was the coldest January on record, in that latitude, for more than fifty years. Once the temperature was $30^{\circ}$ belore zero, $F$., and threre were two days when zero, wind blow a strong gale, the merthe wind blow a strong gale, the mer-
cury getting but once as high tis $0^{\circ}$ below zero. From the 7 th to the 14 th the mercury was, one-half of the time below zerio, and ouly once as lugh as 106 above-the wind blowing ans al. most continuous gale. Exrly in the forenoon of the 14th, the mercury was $102^{\circ}$ beluw \%ero. Later in the day it moderated enough for me to examine three strong stocks, in the ceutral combs of all of which I found egrgs sud unof all of which l found eggs sua un-
capped brood, and in one of the stocks capped brood, and in one of the stocks
a littlo capped hrood. On the 30th of a little capped hrood. On the 30 th of that munth the central combl) of one of
these colonies was fourd to be almost these colonies was fourd to be almost
full of sealed brood, mature. My experience with hack becs led me to ex pect breeting to begin in good stocks about the list of Jan., and sometimes little earlier.
In my Italian apiary at Oxford, Where the mean of the winter is very little lower than the mean of March in Greenfield, I soldom failed to get an opportunity of overlooking my stocks some time in February, and rarely found mush brood in that month, even in the stroughat; while in most of the: layiug had sot even begin. The present winter here, though unusually cold, does not compare for severity with that of $1^{2} 47$ in Greenfield, and there have been throe thavs causing the resumption of navigation on the Ohio River. T'wo of my neighions, the Messrs. McCord, examined, on 11th May, a large number of stocks, some of which were very stroug, and in only two was brood in any stage noticed. While it is very true that a small coluny of Itatians, when breeding fairly begins in the epriug, will, ay a rule, rapidly outotrip a black one of equal strongth, is it not equally true that what is called "spring dwindling" among Italians may in many cases be altributed to the abovementioned causes: In localities where the main honey harvest is over on or befuio the middle of rily, carly breed. ing is essential to success, and with Italian bees, artificial stumulus must ordinarily be used to induce it. Some of the readers of Glaanings may remenber my experiments in this line two years ago, interrapted by the return of my old malady.
Thus far, all the experiments with Cyprians, which have como to my knowledge, show that in their propensity for botk. late and early breeding, they respmble, even if they do not surpass, the blacks. In the American Bee Journal, Feb. 2, 1881, Melville Hays, of Wilnington, Obio, writes, under date of Jan. 3d, of his Palestine bees: "To-day I opened the hives and found brood in all stages from the egg up, in six frames." I presume that the iloly-Land bees will be found to resemble very closely the Cyprians. In this connection, I will mention the curlous fact, that, some years befure the Enyptian bees were minduced into Europe, many of the worsers of one of my the peculiar creicent-like markings of the Cyprina, Palestine, and Egyptiau bees After importiug the Egyptian bees, I couid easily agree with Yogel. that the Italian is a uross between this bee
and the black. Mr. Woodbury's ha:d
expexience with the Eyyption bee un England may easily le secourted for hy supposing hiru to have attempted to handie thern just as he die the Italian*.
Thu lationas are much mure welened to build drone cornb then the blowis.
When forage is abundaut, ave empty frame was placed between two fuil one: my experience with the blacks led me to expect then to fill it with worke comb; and if their queen way onte of the current year, I could count upon this with alraost absolutely certainty; while, under the same conditions with Italians, drone comb way the rule and lainans, drone comb way the rule and
worker the rare exception. The Italworker the rare excepticn. The ftal-
ians, instend of filling the empty frame. often occupy the vacant space by bulg ing out the other combs; and if the honey in them was capped over, they would sometimes build mutier tier of cells right upon the cappings of the old combs. Time wouid fail me to dereribe my various experiences in trying, when forage was aturdant to induce Jtalian stock to buid worker comb, and it was ouly by a free use of the extractor that, to ward the close of my carcer as an ac toward the close of my career as an ac
tive apiarian, I was able to necure-what cost me no tiouble with the bhacksufficient supply of worker comb. By the use of comb foundation we are nus much better able to remedy this defeet in Italians.
Having now mentioned some of the pnints in which the blacke are manifest y superior to the Italiatus, and reserving others for future discussion, it must be evident that the Italians must have some extraordinary advantages, to give them the preference anong our leading bee-kegpers. These I propose also to notice in another article.
From all that I car learn of them, the Cyprans seem to have in high peifection some of the very beat qualities of the blacks and Italians and unless $\operatorname{Ir}$ Benton can find something still better for us in Asia, we may well congratulate ourselves on its introduction in un. doubted purity intn this country. All honor to Mr. D. A. Jones, of Beeton, Canada, whose extraordinary energy and experience in the manarement of bees, and large expenditures, have doue so much, and promise to do so much more, to secure for Europe and America the best race of bees, or the best crows between different races, that the crows between different races, that the
world can give us! Withoat Mr. Junes, word can give us! Mithoat Mr. Junes,
Mr. Bentou might have loured in vain fur such golden upportunities ; and we should be still groping in the dark, as we have benn for so many years, talkaud planning "how to do it"" but still ever so much further off than we now are for the desired goal.
The Moly-Land bees procured by Mr. Jones' personal visit to Palestine will probably be found to have the same gocd traits with the Cyprians, and to be much nearer allied to them in size and disvosition than the Egyptian (Apiifasciata). Mr. Jones himself gives them the preference, and it may be that our most valued bees shall come to $u \times$ from that promised land, flowing in milk and honcy! As the Italians are donbtless a cross, there is not much to be expected by mixing their blood with the new-comers.

## TO PUBLIC SPYAKELSS.

Public speakers and singots who would possess a clear voice, freedom from hoarseness and sore throat should use Hagyard's Pectoral balsam, a safe, pleasant aud certain hoaler for the throat and lunge, it speedily breaks up a cold aid cures all pulmonary complaints, add cures all pulnonary complaints,
that so often lead to incurable consumpthon.
f3t5
Mranufacturors of Roapars, Mowors and Throghing Auchines profor "Custorine ${ }^{\text {N }}$ fard, seal or elophant, and is will out woar to gum.

## THE DNAD CEIMD AND TER MOCK. RNaBLRD.

The follow hag poem in lu no pense a mede sanes. On the suntrui y, the atrange pathetic
 nille, Florina]
Ouce in a had of bahn and thowera Of rich fruit.indon troes,
Of rich fruitindon troos,
Where tha wid wrienths from jumine howers
Trail oor Flondian sea6,
Wo marker nur Jornhes sootstopes ria Athwart the twinkliug glade
she B\%omed $a$ Hobe in th
And all day long her Finsome soug
Would wave-like flow, or ailvery low
Dle down tho vhinperiug vill
One morn widmost the follago dim A dark gray pinion stirs
And harkt along tho vine-cind limb What straugo volco blouds with hers?

It blonds with here, which soon is atiledBrayor the mook-hird's noto
Than tho atrains that over flled
as Jeannio hoard, suo loved tho bira.
And sought thonceforth to gharo Witi: her pew favorite, dawn by darn. Hor daintiest morning cheo

But aht a blight boyoud our kon, is rom some inr overous wila, Bron ht that dark shado

Ct chillend ior drooping curls of brown It divamesi her violot uyos,


At last one daynond Jeannio lay Tho sole siveot braath on lips of death Tbe flutteriag breath of morn,

When just beyond ths o or-curtained room (How tounder yot how strong!) in , po through the raisty morniug sloom

Dear Christs those notas of golden peal Goem caught from heavenly spneres, Tat through their warvellous radonce storl

Yo it an ancel's voics that throts Whose rhythmio magic sonrs or sobs Above our darling's breast.

Therinncy passed-but camo onco more Minay, stolon from Joannio's bel,


The fire oftrat trazascendent atrain
His liforchords burned apart. And. morgact in sorrow's oarthiner yau,保

Maiden and bird!-tho self-same grave Thier wedded dustshall keep, While the long low Fleridiou wave

- Pami M. Hayne, in Ifarper's Ma!azine AC.

Your memory ia bad, perhaps, but I an tell you two secreu that will cure the worst memory. One is to read a subject when strongly interesten. The other is not only read but think. W.? you have read a paragraph or a page, stop, close the book and try to remember the ideas on that page, and not on!. recall them vaguely in your mind, but put them into words and speak them out. Faithfully follow these twe rules and you have the golden keys of knowledge. Besidesinattentive rearing there are other thingsinjurious to memory. One is the habit of skimmiag over newspapers, iteus of news smart remarks, bits of information, politicel reflections fashion-notes, all in a confused jamble , never to be thought of again, thus dili gently cultivating 8 habit of carclas reading hard to break. Another is the Nothing is si fatal to reading with profit ${ }^{\prime \prime}$ : the habit of running through strory after story, and forgetting them as soon as read. I know a gray-haired woinan, a life-long lover of books, who sadly declares that her mind has been suined by such reading.-St. Nicholas.

A Piance For THE OLIV FORIAG
If you would make the neged happy lead them to feel that there is atill a place for them where they can be usefill. Wron you ree their punera failing, do not notice it. It is enourh fus thenn to feel it without a reminder. Do not humilate tinem hy doing thing after them. Accept their offered services, and du not let them sea you tok ing of the dust their yoor cyesight ha lett undisturbed, or wiping up the li "uid their tremblug handa have spilled rather let the dust remain, and the iqpuid stam the carpet than rol, them of their self respect by sering you cuves their deficinncies. You may givat them the best room in the house, you may garnish it with pictures and flowers, you may yield them the best neat in your church-pew, the casiest chair in your parlor, the highest seat of honor at your table; but if you lead, or lave them to feel that they have possed their usefulness, you plant a thorn in their bosom that will ranklo ther while life lasts. If they are capable of doing nothing but preparing your kindings, or darning your stockings indulge them in those things, but never let them feel that it is because they can do nothing else; raiher that they do this so well

Do not ignore their taste and judgment. It may bo in their carlier days, and in the circle where they moved, that they were as much sought and honored as you are now; and until you arrive at the place, you can ill imagine your feeling should you be conidered entirely void of these qualities, be regarded as essential to no une, and your opiniuns unsuught, or discarded if given. They may have been active and suecessful in the training of chaldren and youth in the way they should go ; and will they not feel it keouly, if no attempt is made to draw from this rich experience?
Indulge them as far as possible ir thelr old habits. The various forms of society in which they were educsited may be as dear to them as yours are now to you; and can they see them slighted or disowned without is pang If they relish therr meals netter by turning their tea into the ssucer, hav ing their butter on the same plate with their food, or eating witn beth linife and fork, do not in woid or deed 1 m ply to them that the custom of their days are obnosiow in good society and they are slipping down from re. respectability astney descend the hill-side of life. Alwars bear in mind that the custom of which you are now so tenac ious may br, equally repugnant to the next geneiation.
In this connection I would say, do not notice the pronunciation of the aged. 'lhey speak asthosy were taught, and yours may de just as uncourtly to the gencration following. I was once theght an lasson on this subject which I never aball forget while memory holds its sway. I was dinfng, when a father brought his son in take charge of a litrouginstitution. He was intelligent but had not received iha carliar advantages which he had labored haid to procure for his son; and his language was quite a conirast to that if trios cultivat ed youti. But the attention he gave to his father's quairst though wise ramar! + , placed him on a higher pinnacle i:s my mind then he was ever placel by his world-wido reputation as a scholar and writer.-Conjregatusmalist.

Hagrard's Yellow Oil is a perfect panacea curing by external and internal use all inflammation, pain and soreness, Rheumatism, Stiff Joints, Ueafnese, Colds, Kidney complaints, Burns, Frost Bites, and Flesh Wounds of every variety. For sale by all dealers. fit5

## THE SICED OF THE TOLNG.

## Gume Interarting xiacts about tho

 Fligits of 13irdsA writer ray: - The speed at which wine wings are driven is enurnoun. It is oreanionally me great as to cause the piuions to emit a drumming sound. Tu this sourer the buzz of the fly, the drone of the bee and the boom of the beetle are to bo referred. When a grouse, partridgo, or pheasant suddenly aprings into the air, the sound prodnced by the whirring of its wings greatly revembles that produced by the contact of steel with the rapidly-revolving stone of the knife-grinder.
It has been eatimated that the common thy moves its winge 330 times per second-i. e., 19,800 times per minute -and the buttertly moves its wings nine times per second, or 640 times per miuute. These movements represent an incredibly high speed even at the roods of the wings; but the speed is enormously increased at the tips of the wings, from the facts that the tips rotate upon the roots as cantres. In real. ity, and as has been a!ready indicated, the speed of the tips of the wings increase in proportion as the tips are removed from the axes of rotation, and in proportion as the wings are long This is explaine? on a principle well understood in nechanics.
If a rod or wing hinged at one point, be made to vibrate, the free end of the rod or wing always passes through a much greater space in a given time than the prort inearer the root of the wing. The grogressive iacresue in the speed of the wing, in proportion as the wings tecome larger, explain why the winge of bats and birds are not driven at the extravagant speed of insect wings, and how the large and long wings of hets and birds are driven more leisureIy than the small and short wings of large and smoll bats and birds.
That the wing is driven more slowly in the proportion to its length is proved by experiment and by observing the flight of large aul small birds of the same genus. Thus large gulls flap their wing much more slowly than small gulls, the configuration and relative size of wings to the body being the sam in both. This is a hopeful feature in the construction of flying narchines, as there can be no doubt that comparatively slow movement will suffice for driving the long, powerful wings required to elevate and propel flying machines.
The speed of the wing is in part regulated by the amplitude of the wing. Thus if the wing be broad as well as long, the beats are necessarily reduced in frequency. This is especially true of the heron, which is one of the most picturesque and at the same time one of the slewest birds we haye. I have timed the heron ou seyperal occasionis, and find that in an ordinary flight its wings make exactly sixty up and sixty down strokes-i. e., 120 beats per minute.

In the pterodactyl, the grent extinct saurian, the wing was enormously elongated, and in this particular instance probably from fifty to sixty heats of tha ring per minute suffled for fight. Fifty or siste pulations of the wing per minute do not invelve much wear and tear of the working parts, and I am strongly of the opinion that artif. cial fligat, if nuce achieved, will become a comparatively safe means of locomotion, as for as the machinery required is concerned.

How door the littlo busy boo improve the How duaning hour,
How jolly tomar,
How ia it spaing Bloseons is such a cortalu
For Couto


TAE LIABYT OF THRLET.
The habity of thrift are defined by the London Globe as facts of self-denial for the vake of some wbjects in the fut ure, and it is just such acts as these which people in all cities find it ex tremely difficult to piactice. It is a matter to a very great evtent dopending on natural disposition which varie juat as much in one class as in another There are some who by nature are en dowed with the accumlative propensity of the squirrel, and bee and the ant. They find a keen and absorbing plensure in hoarding what they get; not perhapa, for its own sake, but as a mea sure of successful action, and as a kind of reserve of power which they have at command should they chonse to exert it. Others seem to linve nothing of this in their composition. The power that money gives seems to them dormant and useless until it is put to action. They are sanguine, and are gay and light-hearted in the present Whereas the acquisitive individual wil usually be found apprehensive of the ccming time, and very apt to meet his troubles half-way. Those two types of character are as marked and distinct as any two possibly can be, and the extreme of each can scarcely be considered amenable to modifying influences to any extent. Moreover, they are confined not to one class but are found in all. Education is commonly regarded as the proper cure for thriftless habits, and to a certain extent, no doubt, it is, But education cannot eradicate the constituent traits of individual character The accumulative and foreboding will always remain more or less so, and the sanguine and free-handed will alway feel the passing day to be the one really important point of tirae. Moreover, although education impliesself-restraint and thoughtfulness, it, of course, has a tendency to expand and view and to create desires which may or may not oe of a simple and inexpensive kind The habit of self-restraint is the one point to which education musc tend if it is to develope thrift; and looking around on society generally at is difficul sometimes to discern the existence of this control of individual proclivities in one class more than another, though the nature and direction of those pro ciivities may vary considerably,

Tar Liver, the Skin, the Kidneys and the Bowels, are the natural cleansers of the systom; secure their healthy action by nature's grand remedy, Burdock Blood Bitters. It cures Scrofula-It cures Liver Complaint-It cures Dys pepsia-It cures Female Complaints and purifies the Blood while it restore strength and vitality to the shattered system. Trial bottles 10 cents. f3t5

Elder Traverse, who lately died in Buffalo, was once the most noted camp. meeting leader in eastern New York. Of splendid physique he made short work of interrupters. Once a notor ious rough, "Chicago Bob,"interrupted the congregation while "singing, by crowing. "Sit down Robert," said to one? ? growled the bully ; "sit down Robert," once mor. Eaid the eldot: Robert's reply was a movement to throw off his coat. One under the ear came deftly from the elder, follo wed by another, and another, and still another and Bob reired yncenscious ${ }^{\circ}$ Next day he appeared among the cepentant sinuers. "Are you in earnest, Robeit?" mildly inquired the elder. "I am." "Really seeking for faith." "rou bet. If faith helps a man to get bis work in as quickly as you did yesterday I am bound to have it if I sell my hat. Ho crawed no more.

## an sioht of tare do Oef fales.

Ono of the Most Oharmpuc and lenat
Strange though it may seem, al thuugh there is almost at our door one of the most charaing natural beanties in Canada, yet comparatively, but very few outside, and even fery in and around our city have lever seen DeCew Falls. This may possibly be accounted for by proximity to the Niagara, but it is a moot question with lovers of the sublime and beautiful whether the modest series of falls embowered in the deep and romantic glen of DeCew does not, after all, outrival their great brothers in truly natural seenery. Leaving St. Catharines any of these fine mornSt. Catharines any of these fine mornings in the "month of leaves" or latter of some three miles, most of which is passed over a road as level as a bowling green, and a country literally blooming; like a rose, with a background of mountain, wood and greensward, arrives at the comers known as Reynolds' Mill. there the viow is very fine, the great gorge which appears like a rift in the mountain is dimly seen through the heavy hovering of maples, hickorye, clms, pines, aud sycamores, which, springing from the virgin soil on cither. bank of the river, untwine their towering tops so as to almost shut out the suulight. A short distance along this, the Pelham road. brings us to a turn when the visitor descends a steep hill, crosses the bridge over the western branch of the Twelve Mile Creek, and then, entering the woods on the East aide, in a few noments arrives at. the bel of the rippling, laughing, rapid strenm which comes down frum the falls. The pleasure seeker has now the choice of two routes; he can either take the path which winds high up the bank or else pursue the margin of the stream. The latter although by far the most difficult, is the most charming The bed of the stream is thickly stremp with boulders and immense pieces of rocks, which, with the ordinary changea of nature, become detached from the cliffs above and are hurled with thundering crash into the bed of the little river, and these help to form. deep pools and shallows, around which, when a freshet occurs, the waters lash and swirl in fantastic forms. Along the banks at shurt intervals is met the great ruots of the old forest monarchs which hang in threatening shape over the stream; whilst along the slope the profusion of undergrowth is a paradise fur the en. undergrowth is a parauise ior the en thusiastic botauist; ferns in manifold
variety, blue anemones, and a thousand variety, blue anemones, and a thousand
other rare types of Horal herbage, appear as if some rare conservatory was lavishly scattered over the moss-covered rock and soil. In the trees overhead the feathered race find a soft retreat, and with their warblings appear as if trying to drown the noise of the babbling brook below. Arriving at the foot of the fizst or lower fall, the scene is truly grand, and words would almost fail to deseribe the wild cosiness of this little glen. The fall, from here appears to be about fifty feet high, and tumbles in almost unbroken force into the deep chasm with a cleafening roar. Hcre a few hours may be well spent in a delightfully cool atmosphere, safe a drum the hot rays of the sun, and as much at peace as if in sume cavern re mute from all human kind. At the base of the fall are a number of very large ruchs, around which the waters, struguling to escape, play many a prank, stiungly remincing one of the puel's description of a similar scene :
"In aud out and round about,
To jom the roiling risur.
The tourist wishing to see the upper fall, can nowf ascead the steep bank,
and, by following the rukged pathway
with care-because a false step might hurl hm tu the bottom-will in a abort time, arrive at the top of the lower foll. The climb, although a tiring one, will be amply repaid, as the verw is usuellent, the gorge below oppearmg like a lovely green vista, broken only by the splastre ond form of thas muninture rapsplast sind furm ond whirlpool, lost in the distance of the dim perspective. Inlers the water is very high the pede trian cin follow up the bed of the stream; otherwise he may take the path and soon arrive at the upper fall. This is the largest and prettiest of the two. The fall is much higher, and comes over a rock forming the segment of a over a rock forming the segunent The bare cliff hollowed out in many places to a depth of over twelve feet, hang out in frowning grandeur, with will vines and other trailing and creeping plants falling in festoons orer the edges. These with a gentle breeze away to and fro, lending a fan-like appearaince to fro, lending a fan-like apperrance to
the fairy scene-unequalled in Caizatio. the fairy scene-unequalled in cairata. ling this place, which, for a quiet family pis-nic or other out-door day's amusement, cannot be excelled, its only drawback being the difficulty of approach, which with a little enterprise on the part of the owners and a trifling charge might be accomplished. In connection with the falls, there is a legend that at one time a famous Indinn cave existed here, the entrance to which is now closed, but might by perseverance, be found by some adventurous wonder seeker.

A Real Necessity. - No house should be without a bottle of Hagyard's Yellow Oil, in case of accident. There is no preparation offered to sufferin; humanity that has made so many permaient cures, or relieved so much pain and misery. It is called by some the Guod Samaritan, by others the Cure-all, and by the afllicted au Angel of Mercy. $£ 3 t 5$
A8k your dealors for "Cratorine" JIachine orino," as none other is gonuine.

## Chinese dearf treze.

We have.all known from childhood how the Chinese cramp theix wumen's feet and so manage to make them keepers at hume; but how they contrive tu grow minature pines and oaks in flowerdots for half a century has always been much of a secret. They ain first and last at the seat of vigorous growth, endeavoring to weaken it ay mach as may be consistent with the preservation of life. Take a young plant-say a seedling or cutting of a cedar-when only two or three inches high, cut off its tap root as soon as it has other rootlets enough to live upon, and replant it in a shallow earthen pot or pan. The end of the tap-root is generally made to rest on a stone within it. Alluvial clay is then put into the pot, much of it in bits the size of beans, and just enough in kind and quantity to furnish a scanty nourishment to the plant. Water enough is given it to keep it in growih, but not enough to excite a vigoious habit. So likewise is the application of light and heat. As the Chinese pride themselves on the shape of their miniature trees, they use strings, wires, and gegs, and various other mechanical contrivances to pro note symmetry of halit or to fashion their pets into odd fancy figures. Thus by the use of very shallow puts, the growth of the taprout is out ot the question; by the use of poor soll and little of $1 t$, and little Then, too, the top and side rrots being within easy reach of the gardener, are shortened by his pruning knife or seared with his hut iron. Sis the little tree, finding itself headed on erery side,gives
up the idea of strong growth, aiking
only for bfe, aud just life enough to look well. Anordingly each new set of leaves become anore a ad norestunted, the buds and roullets are diminished m pupurtion, and at length a balauce is establinhad betweens every part of the tree, makim it a dvarf in all respects. In sume kinds of trees this end is reacheat in three of four years, in others ten or fifteen nre necespary. Such is fancy horticulture among the Celestials. - Buston $V^{\prime}$ 'uthinan.

All forms of Nervous Deblity so commonly prevalent, yield to the vitalring powers of Burdock Blood Bitters It is the best regulator of the Liver, Bowels, and Kıdaeys; the most perfect Blood Purfier and permanent Tomo known. Purely vegetable, safe and pleasant to take, and unfailing in its effeets as a health restorative. Sample bottles 10 cents.
f3t

## proof of animal life in other

 planets.Two interesting problems wbich havo long perplexed the scientifio world appear for by the eminent geologist Dr. Halin. These' questions are,--first whether or not celestial bodies, other than the carth, belonging to our solar system, are inhabiteti $b$, anmato beings, and secondly,-whetzes the meteorid stones from time to tixse cast upon the surince of this globe ensavate from incaudescent comets or fro ${ }^{72}$ volcanid caucescent thamets or
planets. That they at notingo formed a part of the earth itself has be'on conclusively demonstrated.
Dr. Hahn has receatly complec.ed a series of investigations upun sume: of the skies in Hungry durims the sum mer of 1866 . Thin lamino of these mysterious bodics, subjected to exam. mation under a powerful micruscupe, have been found to contain contain coralline and spongeous formations and to reveal unmistakable traces of the lower forms of vegetacion. $\mathrm{Al}_{\text {a }}$ is organisms, animal and vegetable, disstone shayings he has thus dealt with udicate the condition of their parent wurld to be one of wh. $t$ is technically world to be one of wh.t is technically the presence of water in that world is proved by the fact that the tiny petrified creatures revealed by the maric of the lens, one and all belong to the socalled subayucuts class of animals at least if the assumption be correct that these are in a state oi active comthat the
bustion.
"Where have you been for a week back !" enquired a man of his neighbor. "I have not a weak back,", retorted he, "you misunderstand me," remarked his friend; "but if you ever get a weak
back try Burdock Blood Bittere. It cures all debility arising from disordered Kilnevs, Liver or Biood, and is the best purityit: Toni: in the world. All medicine dealers supply sample bottles at 10 cente, regular size $\$ 1.00$.
 pnu svouxut xot fuolivoxo osir 8 it kxokity

Blot out Christiauity, ani the world will nut only be losit in darkness and in, but homes will be wrecked, humanity brought duwn to despair an. ruin.
Which systum, therefure, hay dunc, and is duing, for the world and humanity the greatest good? Which of these two systems is now breaking the fettirs wheh bind manking? Ob , is it not Christianity in all of its power, freedom and leenuty, that brings the world fram


Low To boll nad nteiv.
To do eilher proporly, the food raust be imatersed at the berinning in actual. ly boilin's vater, and the water xaust he allowed to seach the boiliog point argain immediately, and to boil for ahout tive minutes. The action of the bonling water upon the surface of either meat or vater upon the surface of eisher to harden it slightly, but enough to provent the eacape either of juices or mineral calts.
After the water covoring the food has begun to boil a second time, the pot should be removed to the side of the fire, and the water allowed to simmer until the food is done. This simmering or stewing extracts all the nutritious qualitiey of erther meat or vegetables the pot should be kept closely covered the pot should be kept closely covered
unless for a moment when it is necesunless for a moment when it is neces-
sary to raise the cover in order to resary to raise the cover in order to re
move the scum. The steam will con dense upon the inside of the cover, and fall back into the pot in urops of moisture, if the boiling is slow. Do not think that rapid boiling cooks faster than the gentle process which I recom mend.
After the water once boils, you can not make it cook any faster if you havo fire enough under it to run a steam en gine. So save your fuel and add it to the fire. little by little, tu keep the water boiling. Remember if you boil meat fast and hard it will be tough and taste. leses, and most of its goodness will go up the chimney or out of the window with the steam.

Believers are not dependert upon circumstances. Their joy comes not from what they have, and from what they are; not from what they enjoy, but from that which they bave suffered fur them by their Lord. It is a singular on, then because it often bude, blossoms and ripens in winter time, and when the fig tree does not blossom, and there is no hen in the stall, God's Habakkuk rejoice in th's salvation.-Spurgcon.
A. New Macenns.-A California inventor has made a m. ${ }^{-}$chine for pressing and drying potatoes, so that they will keep fur years, yet preserve. their natural flavor. No chemicals are used in the uperation of curing, everything being done by a simple machine, cayable :? pressing 600 bushels of potatoes in 24 hours. The macine not only presses the potatues, but lays them on a tray in a concave form with the hollow side duwn. After the pressure they are put into a drying apparatus where they re main for two houss; then they ar ground into coarse meal, resembling cracked rice. The first shipment of these preserved potatoes to Liverpool last year brought a large profit. The average price of potatoes in San Francisco is about 25 cents a bushel ; dried they hro
weight.

Worldly faces never look so werldly as at a funeral. They bave the same effect of grating incongruity as the sound of a coarse voice breaking the
solemn stillness of night.-Giorgy Elict.

A beadtieul person is the matural form of a beantiful soul. The mind builds its own house. The soul takes precedence of the body, and shapen the body to its own likeness. A vacant mind takes all the meaning uut of thie fairest face. A senscal disposition de firms the handsome features. A cold selfish heart shrivels and disturts the best louks. A groveling spirit takes all the dignity out of the figure, and all the character out of the countenance. A cherished hatred transforms the How beautiful lineament. into an image uf uglineiv

## CONTEMTS OF THIS ISSUE.

Poultry:-Chek apd chock; Poultry runs; agement of chichens
stonk-Sheepp und Wool: Itemo
Acriculture The woot; .046
Agriculture -The wothtor solk; Drilling
in whet: Fmit Growort Astociation, Itoms
Apiary-ibro Faruing ; The Oyprian Bee
Misesilany:-The Dead Cuild and the
Place fir the Old Folks" lad Memory: "A
Wing; The Habit of Thifti In Sight of De
Cew Fails; Ghinese Inwarf Tree; Proof of
and Stow; A Now Machino; Itome.. $048-49-57$.
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Life of the Order. - Items
Nows Itomg.-('aundian, Amorican, Britial
and Foroign
Ercetice. Promptly Suppressed; oto .ev2.
Monsehold. - Uzeful Recoipts for the kitchen
Ladies Dopartmont. - Educated Young
Ladios: Our Mission; itoms
Tho Grange.-Itoms....
Duiry. Fgyptian or Rico Corn; Milk
Hollses and Silb-Earth Vontilation: Caives
Horticulrure. - A Few Things Which
Orcharoists Should Not Do ......................................
Commeroial.-Torunto Market Buffalo Live St ok MInrket; Bxcitement in the
Whent Markot; $13 y$ Telngraph, otc.............65. Literary -Inatitudo Unknown; The Tale of a Tramp.

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

T'ues following list shows some of our regular contributors, and those who hare kindly concolumns uuder the differont heads to whink thov confino their attontion more particular-
ly. We will be glad to aid to the list at ly. We wind
any tine.
hontioultume.
J. H. Pearsou, Editor "Western Horticul-
turist," Ainsworth, Iowa. tor," Ainsworth, Iowa.
COULTET.

George Elliott,-a talsor of oight prizes at the Provincial Poultry Show-Port Irsibinson, Ont.
apiany.

1. A. Jones, of tho Beokeepo'rs' Asscciation of Ontario. Beeton, Ont
M. Richardson, a largo exhibitor at Proincial Shows. Port Coaborne, Ont
amike jugar cane.
S. Joy, M. D. Flusident of Ontario Sugar
Mnufacturing. Co'y Tilsonburg Co. Elgin, Mnn
Ont.
Hiram, roodwillie, practical Sugar Cane raiber, Vielland, Ont
maplat: symup, sugar, \&c.
Levi $R$. Whitman, an extonsive manufacturer, Ḱnowlton, Quebec.
grape oulture.
Dr. Joy, Tilsouburg, Ont.
gheneral fabj subjf.cts.
M. McQuade, Egmondville, Ont.
S. T. Pettit, Bemmont, Ont.
S. T. Pottit, Belmont, Ont.

Georgo Crecd, South Iawdon, N.S.
I,ADIFA DFPaRTMENT.
Alts. S. H. N Iles, Grimsby, Ont. Youna yolhs coloans.
Children of our numerous subscribers from overy nart of the Dominion, under.t.
vision of "Our Little Follis Editos."

## THE FAST STAUNCH A 1



STEAMER PICTON
In conrection rith tbe iVelland Railway, has commoncal hor regular taips for

## TORONTO and PORT DALHOUSEE,

Le ....'g Port Dalhousio on arrival of the moinins train from St. Catharines aud other points amd arrivis in 'roronto at 1 rt $10 \mathrm{\Omega}$. ml . Moluraing at $2: 45 \mathrm{pmin}$ commects with the bousio at $: 510$ piay. forst. Catharines, and all other puints on the lino, Buffalo, \&e
The Chenpest and Quicliest Route to Toronto amul IScturn.
For informatiou apply to volland kailway
ofico, Frolght and I'assenger Agouts.

The Canadian Farmer The Oniy Weekly Agricultural Paper in Canailia,
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Drawor A, Welland, ont.

EDITORIAL.
W. P. Page, Editor, Soo'y. Dom. Grange.

WEDNESDAY, MAY 25, 1881.
THE CROPS IN YORK-GRAND PIC-NIO, \&sc.

The copious rains of the past week have had a refreshing effect upon all vegetation, and farmers begin to look happier as their wheat helds put on a green appearance. Some fields that two weeks ago wrere almost bare are now starting up green and fresh, and al though a good crop can not be expected on these fields, they are too good to plough up. A drive through the County of York reveals some very fine fields of grass, and spring grain growing handsomely. The old County of York contains some fine farms and some farmers who know how to manage them.
The Div. Grange of York held a meeting at Richmond Hill, on Saturday, the 2rst ult. The day was unpleasant and the roads bad, hence not as large a representation as was expected. Bro. Powell occupies the master's chair this year, and Bro. Beasley is secietary. The meeting was called to order at 1 o'clock, and several subjects of interest discussed, among the rest it was decided to hold their annual Pic-Nic, in connection with Peel Division, at Lorne Park, near Toronto, on Thursday the 2nd of June. Preparations will be made for a large gathering. Gond speakers will be secured and an effort made to make the demonstration a grand success. The farmers in these counties and elsewhere who can, should take advantage or this opportunity to spend a pleasant day, and listen to the addresses delivered upon the Grange and Agricultural topics. Lorne Park is a beantiful spot to held a gathering of this kind, there being many attractions in the place, ard we predict an interesting time for all who may attend.

## FARM MAOHINERY

While in Dundas last week we improved the opportuanty to visit the machine works of Messrs. Gurney, Russell $\&$ Co., with which we were much pleased and interested. They employ a large number of men, and only those whe can be trusted to do their work well, in consequence of which they turn out a class of machines that are not excelied in the Province. The managing partner, Mr. Russell, is a gentleman of expert ence, and makes his business a study. determined to place on the market machinery of the best quality, and the large number of machines they are man. uracturing and shipping to all parts of the Dominion, together with the yeally increase of busituess, show how the farmers appreciate their efforts to
supply a first-cla:s article. They manu facture reaping and mowing machines, and horsc-rakes. B; the kindness of Mr Kussell we were shown all through thoir works, and as our readers are interested in knowing how these machines are put together, we took especial notice, exam ining first the tumber, which was wellseasoned and of uniform good quality. All joints were put together with paint and the machines thoroughly painted after being put together. thus ensuring their preservation. The casting3 are all made solid and the necessary holes bored out, the bearings being turned and fitted to these, making them perfectly true. A noticeable feature in the horserakes was the coiled tooth, which gives it more elasticity and strength. They use an iron axle, the rake being so set upon it that the weight of the driver makes it dump easily. All machines are thorsughly tested before shipment, con sequently farmers may know when they go into the field with one of these ma chines they will be sure to work. In tending purchasers of farm machinery should view these machines before purchasing elsewhere, as after inaking a careful examination of their manufac tory wecan confidently recommend their machines to the farming community.

## THE LONDON DISASTER.

Our culumns are inadequate to give a full report of the most terrible affliction that lately befell the city of Londion, Ont., so we have this week issued a supplement giving full particulars of the startling event that immediately on its being known, sent a thrill of horror and sympathy to every heart throughout, not only our Dominion but the whole world. Comment from us is unnecessary, in fact our pen cannot attempt to do justice to the sorrowful accident. The report as we give it speaks for itself.

We call attention this week to the advertisement of a fire and waterproof paint, manufactured by Clarke, Miller, \& Co., of Toronto. A paint of this kind has been very much sought after, and its durability will recommend it to all owners of buildings. Farmers should have their buildings painted, it adds to their appearance, and this paint makes them secure against fird which frequent. ly ignites by sparks on the roof. Try this paint.

IVe took a trip on the "Picton," this week, the favorite steamer running betweer Toronto and Port Dalhousie, connecting with the Welland Railway. It is a pleasant trip to parties traveling between these points, and a convenient and short route to Buffalo and other points. The officers of the boat arc courteous and accommodating, freight is carried safely and cheaply this way We recommend it to the traveling public, as also to those having freight to transp,, rt in that direction.

Differences of opinion regarding the popular internal and external remeds; Dr. Thmmas' Eelectric Oil-io zot, so far as known, exist. The testimony io positive and oncurrent that the article relieves juy:ical pain, cures lamencix, checky a cough, is an excellent remedy for pains and rheumatic com.
plaints, and it has no nausentin: or other unpleawant effect when taken internally.
Editor's Drawer.
A correspondent layt week gave one side of the "chess" question. Opinions on this subjest vary, although the large majority hold our corres. pondont's view, that wheat never turns to chess.
The appearance of a yield of wheat under the average might auggeat to farmers the advisability of spreading their investments. Pinning faith to one kind of crop is unprotitable and financially dangerous.
Tue recent horror at London, Ont., recails to mind the disaster of the Princess Alica, on the river of the same name in England. It is another instance of the greed or incapacity, or both, on the part of stermboat owners or captaing.
Ties township of Stamford, this colluty, fruit-growers roport an immense crop of berries and wther small fruits. The peach crop, however will be very poor and many of the growers havivg large orchards will not have esulticient peaches for their own use. The fruit industry is becoming yearly of more importance in Canada. Wo would like to hear from friends in other places as to fruit prospects

## Lite of the Orater.

Co-operation teaches the Golden Rule, to " Do unto others that which you would they should do nto you."
The Grange at Golipdo, Falls Cu., Texas, was organized many years ago. "Has uever been dormant, and has alised but one meeting; have a co-operative store in successful operation ; a fine hall built and paid for by the (urange ; a fine library of useful and valuable books; there is not a family in the Grange who do not take from one to three Grauge and agricultural papers."
Trme retiring master of Jefferson Co., Yomona Grange, N. Y., makes a strong point in a recent address to that Grange and which is just as applicable here in principle. Read it:-You can see Worthy Master clearer than I can what is needed to secure co-operation within the farmer's ranks; how best to utilize this element or power is a question of par amount importance. All admit its neessity, and but few work in harmony with its acquirements. "Ie may work on aud on, and still we shall be as far as ever from lightening any burden, unless we grasp the means at our command. Whether we can hope to ac complish any advancement in this de. partment at preseut or not, is a moot partment at present or not, is a moon. question. I admit we have done noto legistative action-to political corporation. I was about to say that, if to-day the Jeiferson county Farmers' Alliance should put in nomination a competent farmer from either political party and call upon the members of of the Order to help sustain the rignity and interest of our avocation, I $\checkmark a y$, after doing this, the number of votes would not exceed from each Grange in this county the fingers on your hands. And still we go on grumbling, and at the same tixue sustaining men and measure: antagonistic to our interesti. Tuday we are sustaining papers that are under the special supervision of the monopohes. We dare not break off it we could from this eussavement. In our assoriated capacity in the Grange we harmonize in vords and works, but the moment we make an honest attempt to lessen the
unjust burdens thot weigh down our interests, that nioment pia faiter and go back into the old rut of our early edu. cation. The idea that we have not cation. The iden that we have not
brainsand discernment enough to combrains and discernment cuough to compass the situation, is 2 result of our class. What we lack is manhood, or in other words, bacl-lione.

## FRULT GROTVERS' ABGOCLATION.

The following is a copy of report of cummittce on Vegetablee, read hefore the Fruit Growers' Association of Ontario. The report was read by W. Pembertor Page, editor of Canadian Farmer:

## Report of committee on vegetablen.

To the President, and metnbers of the Ontario Fruit Groncers' Association:
Your Committee appointed at last winter's mecting, beg to report the result of their labors as followa :

The magnitude of the wurk before us, were we to go into researches connected with all the different varleties of vegetables was at once seen, and know. ing that we could only givo a cortain amount of time and study, wo devoted ourselves to a general view of the subject, which wo place before you hoping it may serve to inspire further thought and study upon this important feature in our agricultural productions. No dinner table can now be said to be complete without a good array of vegstables, although to a great extent the quality of these has been overlooked by many house-keepers in
their selection of these valuable additheir selection of these valuable addi-
tions to their tables, watery, solid potions to their tables, watery, solid po-
tatoes, stringy potatoes and beets, with tough, woody parsnipe, are among some of the unwholesome dishes poople are sometimes treated to. In such cases, the cook generally gets the credit of having little knowledge of her work while at the same time the fault lies in the quality of the vegetables shemselves, which quality is due not alono to the particular variety of each, but to the soil upon which it is raised, and its manner of culture; this being a fact, it will not seem out of place to urge upon agriculturists the importance of a more thoroligh study of vegetables, he method of culture that will tend to develop their qualities, and the va-
rieties that experience has proved to be rieties that
the best.
We will draw your attention first to what is the leading and most valuable vegetable grown,-the potato. This valuable and well known esculent is a native of the mountainous parts of hopical America, was taken to Spain and ltaly in the sixteenth century, in its wild state. It was not more than about one inch in diameter, with insipid flavor, and quite unpalatable. The first varieties used in this country came from Europe. The quality was very poor ; but now cultivation and the production of new valictica, by planting the sced, by grafting, hybridzing Sic., it has become of excellent quality, and an indispensable article of goneral consumption overywhere, the potato ranks in nearly all countries as a leading food staple. It may therefore be divonesed with interest and profit. There may be some other crups gropn on a larger scale, yet no product of husbandry is more varionsly usefu, or more generally raised by farmers, and universally consumed by the people. rais being the case, it follows that there is much importance to be attached to the cultivation of this crop. It is generally conceded that a nice sandy loam is the best soil for potatoes, and yet with a farorable season, and yroper culture good tubers can be obtained on stıff clay soil. The average jield of po-
tatoes in this province is les 3 then 100 bushals to the acre, although six, and epen eight hundred bushels have been epen eight hundred bushels have been
raiged off an acre of ground. No crop raiged of an acre of ground. No crop
perhap,$~ a p p e c i a t e s ~ g o o d ~ c u l t i v a t i o n ~$ pernapk appeciates good cultivation
and soil more than potatoes, which will be seen from the fact that while the average yield is not one huadred bushels it is possible to raise eight hundred. It is raid that "the man vho will make two blades of grass grow where but one grew before is a public benafactor." We say then that the bennfactor." Wo say then that the
man who can make eight buehels of man who can make eight bushels of
potatoes grow where but one grew bepotatoes grow where but one grew be-
fore is a still greater public benefactor. fore is a still greater public benefactor.
Not only is the potatoe a good article of food for the human family, hut it is valuable for food for domestic animals as woll. At the late centennial exhibition at Philadelphia, there was a collection of $\$ 00$ named varieties of potatoes exhibited, out of these, howcver, there are a comparatively fow varicties which it is necessary for farmers to attempt to raise. In this report we purpose only to notice some of the leading and new varieties, and in doing so give you such information as we have beon enabled to gather from observacion and study, together with what we learned through the experience of leading potato growers, and will attempt to describe accurately each variety noticed, besides presenting a eample.

Alpha, a eeedling from the Early Rose, tubers of medium size, oblong, somewhat flattened with eyes slightly depressed, color a ciear white with a slight tinge of red about the eyer, flesh very white, fine grained, $\mathrm{d}: \mathrm{y}$ and firm, with flavor decidedly excellent, stalks short and closojointed seldrim exceeding a foot in height, leaf broad, light green with a glossy upper surface, tnbers cluster at the base of the stalk. The Alpha has been awarded the highest honors both in Britain and the States for general excellence; it has been thoroughly tested in Canada and succeeds well. It is, however, not very productive. Mr. J. H. Rowe, of the township of King, in the county of York, has grafted it into the Burbank seedling which is both a very productive and fine potato, and he hopes to obtain from this union a valuable potato for general cultivation
Bresee's Prolific, vines medium height, bushy and spreading, tubers large, regular and smooth, slightly oblong and somewhat flattoned, color a dull white inclining to russet, eyes slightly depressed and containing a pinkish tinge, flesh white snd firm, it cooks quickly, is very mealy and of excellent quality, matures about two to three weeks after
Early Rose, but is not so prolific as was Early Rose, but
at first claimed.
Beau'y of Hetron appears to possess almost all the requisites of a first-class potato, it is very early, about a week before Early Rose and ten or twelve days before Snowflake, its growth is rapid and luxuriant, so much so that the Colorado Beetle has usually but little effect in checking its growth, the tubers shaped like Early Rose are smooth, tinged with pink around the eyes, which turns a pure white iu winter, lesil solic and so far has shewn no tendenc to rot ; the yield is enormous, the tubers lying closely together in the hills; when cooked they are mealy and of a rich delicate flavor. It has been well tested and the reports from all quarte $s=$ are so assuring that we have no hesitation in concludug that this variety will very soon supercede the justly popular Early Rose. The only point that can be mentioned thus far against it is a tendency to grow lnobby in strong land, but even this the seed
Burbanks Scedling, a seedlinin from the Burbanks seedting, a seedinn from the
Early Rose, tuliers large, long and
slim, eyes few and lightly depressed, flesh white, fine rgrain. diy and floury when cooked; it is very productive and commands a high price in the market owing to its general good size and tine appearance ; it is not early, st all events not so sarly as at first claimed

Blue Pinli Eye is an old variety com ing into cultivation again in some aec. tions, it succeeds admirably on new land, but is apt to run out unless seed is frequently changed from opposito sorls.

Blue Kidney, stem upright and compact, about two feet high, tuber medium and slightly curved, color very dark bluish purple with fair flavor. The Kidney family are apt to run out soon, and often succeed best in dry seasons.

Brownclls Bcauty, a large, handsome potato, uval red, clusters closely around the stalk in the lill, easily dug; is a good cropper, but not generally popular for the table.
Bermuda, a new seedling which is not likely to find its way inte the market, it irnot worthy of general cultivation.

Blach Hourt an English variety, is being tested in Ontario, but thus far has nut given promise of superiurity.

Brownells Superior is a sure cropper, its tubers are medium to large, clongated, oval or cylindrical, color rlark or coppor color, very uniform aud handsome in appearance, skin very smooth, eyes few appearance, skin very smooth, eyes few
and small, vines strong and healthy, it ripens late; not a desirable potato for table, but excellent for cattle
Buckeys is being introduced into some sections as a new and very excellent variety, but it is an old varicty and has unthing to recummend it for cultivation.

Comptoms Surprise oval, oblong with eyes sunken, brow prominent, color reddish purple, ftesh white and souna. Mr. Rowe roports this as a truly surprising variety, he says that the past spring "he planted eighty sets and only three came up, and when he peeled them for use at least half of the potato would be wasted." Others place it at the head, and as first-class in quality and productions; wants good soil
Climax Early, uniformly large, long, cylindrical skin white, eyes sharp, shallow, flesh white and firm. early, prelific and hardy.
Centennial, upright vines, strong, vigorous and medium height, foliage dark green strongly resembling th. - leaves of a raspbervy, tubers are compactly clustered around the stalks, easy to dig, medium and uniform size, shape nearly round and somewhat flattened, never rough or prongy, eyes few and of a leep red color, medium early, flesh fine in the grain, white, and when boiled or baked of a lightness and purity seldom equalled, but it is not at all prolinic.
Calico, upright stem, nearly three feet high, tuber round and sligatly flattened, color light brownish red with a small portion of white near the stalk, mealy medium favor, fair cropper, but would not rccommend
until better tested.

Carters Red Shin Flourball, a beavy cropper, answers well for late use and winter, keeps finely, scems to be free from all disease, quality fair. It has not yet been tried on a variety of soils or sections of Ontario.
Ganada, medium tuber, opal, stem sbout two fect high, cooks well, but a poor cropper, it is a hybrid and will fikely never be of value for extensive cultivation.
Eurcha (Brownells) has been tested fairly in several sections and all concur in reporting it unworthy of extended cultivation.
Early King, stem strong and short, incdium tuber, kidney shape, eyes shollow, flesh white, table qualities appear good but it is a poor cropper.
Fern IIfll (Paxton's) a new seedling,
esembling Burbauk in shape, tubers
ruediunc to laike, skin pink, ares shal. low, rieidn rell and comes in early, mealy and good flavor, worthy of cul. tivation.

Flule Kidncy, lnte, productive, good keeper, will be fully tested and reported upon in two years or 80 .

For's Scoding, early, round and said to be productive and very good; will be sufficiently tested and reported next year.
Grange, a ness seedling, stem short, leaves hroad, tubers large and kidney leaves hroad, tubers large and kidney
shaped, eyes doep, yields well and very shaped, oyes deep, vields well and very
fine for table, good beeper, late, and likely to be a popular potato.
riarnet Chilli, an old well-known variety but really not worthy of cultivation as thore are 80 many sorts superior to it in yield and general qualities.
roldin $R$ usset, medium early, nearly round, eyes deep, waxy ; not worthy of cultivation.
Irisk Apple, stem strong and spread ing, abuut $2 \frac{1}{2}$ feet high, tuber hollowed at both ends, color bright red about the eyes, the rest bright, mealy, good flavor and healthy; highly recummended.
Juckson's White, a northern variety, medium, large, late, irregular, round to longish, skin white and mooth, eyes deep, flesh white and fincly grained, tood table quality, good keeper, protood table quality, good
ductive in somo $1 \cdot \mathrm{calities}$.

Irish Calico, upright stom about $2_{\$}^{7}$ feet, tuber round or slightly flattened, color rough, light crownish red with small portion of white near the stalk mealy, flavor medium, healthy.
Inproved Peuchblow, a cross between the Jorsey Peachblow and Excelsior, it has some of the cliaracteristics of both parents, the vines and leaves have the appearance of Excelsior, and the tuhers resumble the other parent, quality is fully up to the old standard Peachblow, late and productive.
King of the Earlies, or Bresee's No. 4 . very early, pink skin and white flesh. good for forcing, but so far it has proved a shy yielder.
Late Rose was first offered in the fall of 187r, ripens two or three weeks after Early Rose, it has proved very productive, hardy, healthy and an excellent keeper retaining its good quality later than almost any other varicty, it is en. titled to be classed first-class, and we readily recommend it for general cultivation. Table quality very good to best , fiavor stronger and more decided than Early Rose.
Early Malcss is from a seed-ball of the Early Rose fertilized with the White Peachblow Tubers generally round, somewhat oblong and occasionally flattened, ver, itandsome and symmetrical in form, skin slightly russeted, pale red. except the eyes and seed end where it is white, brighter, flesh fine grained, pure evenly and quickly, 2 large cropper. evenly and quickly 2 large cropper.
keeps well, eyes slightly denressed, keeps well, eyes slightly depressed,
ripens with the Peerless. Altogether it should be placed among the best market surts.
Mammoth Pearl originated in Ohio, selected from over 2.500 seedlings, a very rapid and strong grower that the Colorado Bectle could have very little effect upon. Table qualities good, free from disease, handsome in appearance,
skin white, fiesh pure white, when cosk. skin white, fesh pure white, when cooked it looks like a bais of flour, eyes few and even with the surface, oblong in
shape, ridens in August, productive ti shape, ripens in August, productive to very productive, in many cases reported first-class varieties. irst-class varieties.
Pirfiction, stem medium height, tuber kidney shaped, skin red, eyes few and shallow, size medium. Not likely ever to become popular.

Pattirson's Victoria, an Euglish varrety, considered one of the best cultivated in that country, possessing good qualities for table, keeps well and re tans flavor. Has not been thoroughly tested yet in this country.

Coutimuel warl woech,

## NEWS IZEMS.

- Cambalian.

Nis Farnell is to lecture in Montre al in September next.
The national amateur lacrose associati on will hold its second convention in Montreal on the 3rd ond 4th of June.

The government has decided that the Jontreal harbor commissioners cannot commute dues on thonting wheat clevators.

David Kerr Servor, a brak man on the IIamilton and Northwestern railway, way killed at Hamilton.
The Jewish society of Montreal has passed a series of resolutions condemning the outrages on their co-religionists in southern Russia.

A journeymen painter of Bontreal, named Luther Lee,eloped with a young girl on Tuesday last, leaving a wife and three children behind.
Tho brickinakers of Hamilton heve formed a union, and have determined to swk for an increase of $12 \frac{1}{2}$ por cent., and if it is not granted they will go on and if it in not gran.
strike on Monday.
The jumior Conservative slub of Montreal presented cn address of congratulation to Sir Hector Langevin afteruoon, at the railway depot, Thursday, on his way to Ottawa.
An Ottawa despatch bays that the impromptll demonstration in honor of Sir Hector Langevin in that city Thursday, ught, was one of the grandest and most enthusiastic ever wituessed at the capital, and one of which a ny statesman might well feel proud.

American.
Judge Fraucis R. E. Ccrnell, of the Minnesuta Supreme Court, is dead.
United States internal revenue receipts for the current year to date are $\$ 121,560,000$.

The liabilities of Stedman \& Tafts suspended brokers of Boston, amount to several hundred thousand.
A band of outlaws rode intc Mountain Home, Ark., Wednesday night, plundered a store, robbed a safe of $\$ 40,-$ plundered a store, robbed a safe of
0 ond powder.
At West Jefferson, Ohio, the barn of Andrew Willis was burned and fout small children of the owner parished. They were playing in the barn and set it on fire.

The International Grand Lodge of Good Templars is in seision at 'Topeka, Kansas. The urder comprives soventyeight grand luriges and. 310,000 mem. bers. Next session at Charleston, S. C.

## Britsish and Forolgn.

The News says:-" It is contidently stated that evidence exists that a couversation did uccur, the purport of which was that Italy might, if she chose, take Tripoli ay cumpensation for French absorpation of Tunis, although Count Cuit, the Italian ambaisador at Cunstantinuple, wa not une of the con. versers."
A Dublin correspondent says.Forster 1 l actively conferring with the olfictals of l)ublin Cautle in regard to the state of the cuuntry. I havo reason to he heve that ther cuintemplate stupphug the new and dangeruas muvement of the Land League for a general strike against payment of rents. A determination to this effect may be speedily announcel.

There was a grand historical pageant at Madrid oul May 27 th, in honor of Calderon, the chief feature being 14 gorgeously decorated coaches. The proceswiun marched through a large at the fuot of the statute of Calderon.

## FACETT TE:

## PKOMPTLX SUPPRREKN:D.

More than a year aro those who tiavel by the Woodward avenuecar linn entered into a solemn acreement not to mention the weather to each other when they met on the car. No matter how hot or how cold it was no one was to speak of it, and each one was to inier that the other had brains enough to expect ten degrees lelow in January, and eighty-five above in August. As a result of this agreement a nuisance was abolished and thouxands of citizens put in a way to enjov themselves as woll as one can in a street car Two weeks ago the organization was revived, and scores of new namesadded to the list, and up to yesterday noon the word "weather" had not been hint. the word "weather had not been himt.
ed at on any car on the line, At that ed at on any car on the line, At that
hour a stranger entered the car at Adelaide street, and scarcely taken a seat when he said to a man acrosse the aisle ;

## "Nice little shower we have had."

He was given a freeaing lonk in re ply, but he continued:
hunder stoms this spring " bave more thunder storms this spring."
One of the organizations here presented him with an engraving of a coffin, nut after a brief glance he continued:
"Wonder if we are going to have a very dry summer ?"
One more effort was made save him, but he recklessly observed.
"I'm buying a place up here, and shall use this line four times per day. Did any of you centlemen observe how the thermometer stood?"
The car was stoppeil and he was taken off and impaled on the tops of some iron pickets, no one even troub. ling himself to tako down his dyiug words to his wife. The coroner has refused to hold any inquest, and the Chief of police says he shall take no official notification of the incident. That's the kind of men they are up Wuoliward avenue, and that's the sort of end that werther talkers may expect to reach. This anying it's hot, or cold, or breea, or balmy, or close, or bracing, has got to be putastop to, if the cross bar on every lamp post becomes a gallows. It means nothing, amovs everyboily, and is deserving of violent death.
work of execution go on.-il
ent

A young German wine merchant, unable to dispuse of $\mathrm{h}_{\mathrm{o}}$ guods, was sit. ting disconsulately reading inco paper when he noticed that a convivial oin baron, famous for his fondnexs for Rhine wine was dead. Seizing one of his letter leads the young man lemned a rute thanking the bare in fos lis kind onder of s few days before, sid the wine would be ferwarded at once and iuclused his bill. The message and wine were received by the hein, who, overjuyed by falling into a good property, paid the merchant's bill, prorit ily drank the wine, and gave the Hoaler whom the baron seemed to have favored, an extensive noter The voung man's custom increased atradilv and nt last his fortune was made Tria ic an in-tanee which dionutes the old truth. in vino veritas; there was ne truth in his wine, evidently.

The farmer's oldest boy now wuts on his heavient boots, geta a grip on the plow handless and with the lines round his neck, yells aud swears, because the span don't "haw" jusi right in turning corners. You'd never suspect he was the same fellows who has been raiving havoc among the girls all winter with his plaid necktic and paper collar.

## HOUSEHOLD.

Mambe: nhorel Buther. - Four tablespoonfuls of butter, one of vinegar one of lemon-juice, half a traspoonfu of sait, guarter ot a teaspounful of pepper, one terapoonful of chopped paraley. Beat the butter to a cream, and gradually beat in the seasoning. This sauce is spread on fried and boiied meats and fish instead of butter.
Baked Shad.-Make a dressing of bread crumbls, butter, pepper, and salt workerl to paste; fill the shad with the mixture, sew it up and place it lengthwise in a baking pan, with a little water and an ounco of butter; fill the space between the fish and the sides of the pan with slices of raw potatoes one-fourth of an inch thick, and serve finh and potatoes togother. Add a spoonful of prepared flour to the gravy; and serve.
Coris-c.ares.-Coin-cakes mede of three teacupfuls of Indian meal, one tablespoonful of sugar, one of butter, one teaspoonful of salt, one egg, cne and one-half pints boiling water. Put all the ingredients except the egg to gether, pour on the boiling water, add the exg, and beat thorouglhy. Spread on tins and bake half an hour in a hot oven. This quantity will make thre or four sheets. The granulated meal takes more moisture than the old. fashioned meal, anrl is much nicer there is no bran or waste.
Salad Dreshina with Raf Eqgs.Break three egos-the whites into a bowl, the yolks upon a flat platter; stir the yolks round and round uron the platter with a large silver fork; add a quarter of a teaspooniul of dry mus. tard, continue stirring until well mixed; then add, a few drops at a time, two thirds of a cup of best nlive oil; stir constantly until it is a thick paste beat to a froth the whites of the eggs, add the parte, which will become thinne " and may be beaten hard and steadily until perfectly smooth; just before serving add a tablespocntul of vinegar; naver put salt in the dressing, hut season highly with salt whatever is to be erved therewith. The quantities of mustard, oil and vinegar may be varied to suit different tastes.
An Omblet wioh "on Milk."-I look over a great many cook books to instruct myself, and to see how the yreat American people are to be advised as to the making of an omelet, and I am made very luhappy. I see the reasun why I so ravely eat a good omelet. There ate two little wordswhich always come in-which destruy such plenureres as we ought to get fruit an omelet.; These very bad wurds are "or milk." "Or milk" is the extingutsher of the omelet. The receipts are generally beautiful as far as they su, but they always say add a little water " or milk," because the or milk - Which must be, I suppuse, a peculiar kind of milk cumverto a suft, light ume-
let intor the tuaghest leather. No "ul milk" in an umelat if you pleast, or the future of tale great country is lost.
Browhisa.- Brouling is unguestionably the lost manner in which to couk meat. By it the meat is thuroughly coohel and the juces remain incorpor ated with the llesty litre. To perfurm It properly the fire should be very hot, so that the outwide of the meat is at ouce hardened, thus imprisoning the juices within the pieces so treated. The gridiron should be turned every faw minutes, so as to cook a!l parto evenly Proiling mrat in the flame of a coal fire gives it an unpleasant orlor and taste, due to the enases of the coal, and broiling over a smoky wood fire is also to be deprecated. Hickury woud cuals impart a peculiar and very pleasant
odor and taste to the meats broiled over them. Broiled meats should le served while hot.
Quaker Obmafi.-A Quaker omelet is a haudsome and sute dish when core is taken in the preparation; :3 egerg, half a cupfal of milk, $1 \frac{1}{2}$ tahlespoonfuls of corn starch, 1 leaspuonful of salt. 1 tableypoonful of butter; put the omelat pan, and a cover that will fit it closely, on to heat ; heat weil together the yolks of the egge, the corn starch, and the salt ; beat the whites to a stiff froth, ald to the well-beaten youks and corn starch; stir all together very thoroughly and add the milk; put the butter in the hot pan; when melterl, pour in the mixture : cover, and phace on the stove where it will brown but not burn; cook about 7 minutes; fold, turn on a hot dish, and serve with cream sauce poured around it; if the colks and corn starch are thoroughly beaten, and if, when the stiff whites are added they are well mixed and the pan added they are well mixed nud the pan
and cover very hot, there can hardly be failure.
Quick Bnead.-There ain't no use of trying to make bread real light by any other way than putting yeast into it and going through the regular husinese, which takes time. Now this here quick bread answers its purpose, and I bave been asked to give it, because somntimes on a yacht fallews grumble at stalo bread, nad though it does well enough at sea it mightn't suit peuple on shore. I ain't myself much of a hand at using suda, but if you havon't yeast, nor the time to lei the dullih rise, you are obliged to use roda if yull don't want arggy bread. You montly has a lemon on buard of a craft--which goes for lemonades or other thing which is stronger. Nuw, take three pints of fluat and mix dry into two drams of supcarbonate of soda; mix just as thoroughly as you can. Then take half a lemon, squeeze it, and be sure to take out the pips, and mix thin with a pint of lukewarm water; before you do this heve pour oven ull to baking heat and pans all greased and ready. now work away with your lemon-julce water into the flour, and go for just as quick as you can; put your d.ugh in the pans and baike away; if the dough is roughatop smooth it with your hand; if you bave caught the proportions and bake quickly you have a decent loaf, and just as swect as can be, the lemon-juice and soda jus, a-valancing one another. In camping out this bread is good for a change. It ain't Vienna rolls, but it ain't so bal after all. I have seen something like this in the books, with muriatic acid for lemon juice, but I don't hanker after acids in my stomach, n.ot being porcelainlined myself.
Green Guoshberraes fuk 'Tabts. Fill very clean, dry, wide-necked buttles with goureberries picked the same day, in dry weather, and just lie fure they have attained their full sia Wrap a little hay round canh butth and set them up to their necho in a brought very gradually to boil, a littl hay must be put in the bottom of the builer, and the hottle; fised firmly Let the fruit simmer bently until it aljearn abrunkenan. 1 perfectly callen. then take wut the buthes and fi' upamaty an yon can quite 1 all with - im of the couked goosebernies-it is generally necesary to sacrifice one of the bottles in doing this, taking care not to break the fruit. Directiy the bottles are full of gooseberries, pom boiling water iuto the botles up to the brims. Ti. bladicr on w the lols immetiatels, and keen the bultles in a dey, coul place. When the gooseherries are used, pour off the greater part of the water, and add sugar same as fur fresh fruit.

## LADIES' DEP'ST

## RIDUCAT\&D young Ladies

Why, we ark, are so many young ladies secking anxiously a higher education ? Different reasons I think might be given, but I fear the proper answer would he lhat thay may appear to advantage in society ; that is one important reason no doubt, but it seems to me that our young women have lost sight, to a yreat extent, of thair mission in the world. It says in that good oid book, the alviee which is ao safo to follow, that God made woman to lee a helpe mate for man , but in our apparently more onlightened condition, with the belp of civilization and higher cultivation educationally, women are lifted from the abject couditions of the slave as in all barbarous countries, to be not only man's equal, but even more, until now the more highly cultivated are really seeking to shirk their part of the work of life. They seem in looking
out upon the future to feel it is not out upon the future to feel it is not
their duty to seek as a companion one their duty to seek as a companion one 2. who is solyer, of industrious habits, and
likely with her wise council and care fulness to grow up to wealth and hon or, lut would rather wed one who has plenty of ueans but with very little clse to recommend him, resting almost entirely upon the money verw of the question. And hence the blighted hopes and broken hearis that are hopes and broken hearts that are
strown upon life's pathway. What we struwn upon life's pathway. What we
want is less of the songational and more want is less of the sengational and more
of the real; less of the literatare found of the real ; less of the literatare found
between ycllow covere, and more of the ntellugence that develops into good useful wives that can do more than gossip, that will stand by their husband, and nobly axsist in the great struggle of lifo. That ought to be the aubject in secuning an educntion.-College Journal (Ushansa.)

## OUIK MISSION.

دK\&. A, B, DEMILLL.
'lhere 18 no work in life 80 full of interest as that of moulding the character of the youthful mind, especially of fe males, for to them is entrusted in after yearsthe best interest of the nations and the higher destiniey, the spiritua welfare of mankind. I have never felt so keenly such responsibility as siuce I have been called upon to take the care and anxiety of so many intelli. gent young wonsen, who, by their superio culture, will exercise power ful intluence on those with whom tiaey associate for good or for evil. An oxanple necessumy to cultivate in them ample necessuy to cultivate in them the nobler graces of the christian wom-
an, the eveness of temper, the high rean, the eveness of temper, the high re-
gard for truth and virtue, the respect gard for truth and virtue, the respect
of love for the Bible and its teachinge is essential to the formation of a character that will fortify them against the temptations that will mect them as hey on out in the pathway of life and they gn out in the pathway of hife, and guire to speak well of Christ and his luire to speak well of Christ and his cause, whilst possibly those with whom they associate may speak lightly or oven sneeringly of the Christian principles they russeas. How necessary that n all our Schools the teachers should be Chanian teachers, that not only the mural but the practical side of Chriutiamty should be brought forward nou unly in the theory but in practice and in actual experience that practice and in actual experience that the student, as a Christian, may bo fitted to work succesifully in the vincyard of the Lord. If ever our noble land is preeminent for the righteousness that exalteth the nation it will be when her sons and daughters hono:ur him wilh faithfulness to his holy commands, and ach their children to consecrate their talents faithfully to God.

A Bacheror too puor to agt mariend yet toos susceptible to let the cirls alone, way rinng with a lady "all of a 'umurer's day;' amd accidentallymen's ams, arveward thing:! are evel in the way-dropped an arm ronnd her waint. No objection was made for a while, and the arm gradually relieved the sinde of the carriage of the preszure upon it. But of a sudden, whether from a late recoynition of this impropriety of the thing, or the sight of another beau coming, never was known the lady sterted with volcanic eneryy, and with a flashing eye, exclaimed, and with a hashing eye, exdamed
"Mr. "., I can support myself!"" "Capi al !" was the instant reply. "You are just the girl I have been looking for these five yeara. "Will you mary me ?"

Medici lace and insertion are in high favor for curtains.
White ties are now arranged with one loop and two ends
Open work straw bonnets, with lin inge, will be worn this sumener.

Worth still uses brocades, although stripes aro declared to be newer.
Only short suits have been sent ove by tho French dressmakers as yet.
A pocket for the handkerchief is sewn to the outside of the newest fanis.

Waists ant atll lared behind fore evenings wear.
Steel endrowdered slippers and sandal straps are shown hy the shocmaker:
Small checkel trimming will be much ured with phain stutfis this suonmer.
Dress skints for street wear will probably be exceelingly simple this summer.
Figured and plain goods are to lie combined in the thin summer gowns of this year.

Plaid stockings with tue foot in xolid colors are sold for ladias who wear ligh boots in the evening.
The closk-makers humbly trust that they will be able to introduce the flow ing sleevo for summer jackets.
Collars of white linen embroidered with small dots to match the color in the dres are to be worn with gingham suits.
Old Pekin striped basques are brought out, furnished up, and worn as new striped garments, superceding the old brocade.
The shirrings at the upper part of dres eleeves sometimes run around the arm and sometimes from the shoulder to the clbow.

Jacos hroid will on combiued with sumot! baid in the stra? bonnets this year, one being luid fur the crovn aud tho ether for the 'rim.
The newest piece of economy is to buy two-buttoned kia choves and sev the partly worn wriste of a pair of sixbuttoned gloves upon them.
Plajd and plain goods are combined in some of the sunmer sult., the plaids being used for the plaitings and for bordering the bargues and draperios.

Six or seven two-inch tucks sot above a side plaited fluunge are used to trim the skirts of white dresues, and tho back draperies are also occasionally tucked
"No starch," is to lee the rule this summer, and it is to be enforced even more rigidly than it was last year. None of the now cottons have any dressing in them.
The scoop hats are the best of the small hats for summer wear. They really protect the eyes although they eave the cheeks and nose to be mercilesily tanned.
The now patterns for summor suits have elaborately triminel skirts with: a small quantity of drapery, and basques of absolute plainness. The sleeves aro of the coat shape.

L.illler (ollt

 lor lof fine from is fo q; inches, hast moannte. To maske the
 meho. wibo, or 1 ? vond is inches wile. Price of any size, 25 cents.


Fiont Vices.


7553
Side-Back licu.

MISSEN WALKING SKIRT.
No. 7553.-As protty a skirt model as could well lue devised, is nero represented in plain and plated makrial. It will be selueted for washablu goods of all varieties, on accomat of its simple construction. Tho pattern is in 8 sizes for missex from s to 15 years of age To mako tho skirt for a misa of 13 yeurs. rcquires it sard of goods ed inches wide, or $2 \frac{1}{2}$ yards 18 inches wide. Irice, 25 cents.


Figurn No. 1.-MIISSES' COSTTTME.
Figure No. 1.-(Consisting of eostume No. i515 almo Hlustratent th similar materiad, with other de cormions. on page 5 of this issuo). -This costume is made of l:nerl alyl rimmed with Hamburs insertion and embroidery model is in 4 gizes for misces from 8 to 15 veary of ape model is in s sizes for misves lrom 8 to 10 year.x of afe yands of goods 22 inchus vide, or 48 yards 36 incties wide, or $3 \frac{1}{2}$ yards 48 iuches wide. Price of pattern, 25 cente.

## The Canadian Farmer

WEDNESDAY, MAY 25, 1881

## hates of gubsoription. <br> Single oopior 81.04 vor year, in adivance 8int Bont toany <br> The monoy must acoompany tho aubscrip. tion. Romittancos by P. O. Ordor or rogis. tored lotter, will be at our rik. tored lotter, will be at our rikk. and mattors of buainose conneotod withthis farmer, Drawer A., Welland. <br> Publishod by N. B. Colcock, Propriotor H8\%3. TBE ADVEBTISING RATES

 Made known on npplication to this omeo.
## $T H E$ GZEANGE.

## dominion grange ofricers.

 Sis.

per acre; grows about 7 foet high commences to mature about the middle of August, continues to grow until frost, and harvest by clipping off the tufts of grain, and pui it through the threshing machine at the rate of 1200 bushels per day, hence the cost of har veating is light. Every farmer should plant a few acres of rice corn and be prepared for occasional drought.
pearl mishet.
This is essentially a fodder plant, it grows vigorously and rapidly, its stalks and blade resemble corm, and when 3 or 4 feet high cannot be distiuguished from corn, at that stage it may be cut close to the ground, end will again grow at the eame height, and, indeed three or four successive growths. For dairymen it is a very valuable plant, furnishing from 5 to 10 tons per acre of nutritious, milk producing food. It may be sown as pasture and be kept eaten close to the ground untillate in July, and still make a heary growth of July, and still make a heary growth of
fodder. Sow in April or May.fodder. Sow in April or
S. H.Downs, in Kansas Farmer.

## MILK HOUSES ANS BUH-EARTH VENTILATION

The following from an article by Mr. J. Wilkinson and published in the Kunsas Farmer, icontains some excellent ideas and worthy of practical experiment.
"Mr experience, and that of my nu$m$ crous clientz, denizens of fourteen states of the Union, having taught us the soundness of all claimed in the two papers quoted, I have practiced them in my dairg-architecture.
I finally decided that an apartment for setting mailk for creaming, for stor ing butter and cheese, or for the manipulation of the latter, must be so constructed that no air could enter it,other than that specially supplied, and that than that specially supplied, and that
must be of a proper temperature, and must be of a proper temperature, and
must be perpetually changing and abmust be perpetually changing and absolutely pure. These desiderative con ditions I never secured uutil I con coived theory of sub-earll ventilation from which my patrons arr now realiz. ing even more than my most sanguine hopes ever expected while S. E. V. was yet untested, or in its incipiency. I found it necessary to so construct the buildings or apartments to be used for the purposes enumerated, that I could not exclude the surrounding atmosphere, but its $t \in m p e r a t u r e$. This not phere, but its timperature. ion, but the insulation of the enclosed ion, but the insulation of the enclosed
atmosphere of the building from the external air, in a manner that solar heat in the latter could not penetrate the walls, ceilings or cellar floor by connection, affect the temperature of the building-nor through the same medium heat in the enclosed air could escap into the open.
After spending years, and much money in experiments aiming at perfect insulation, testing almost all kinds of filling-in material in the chambers in the walls, etc., I finally discovered that a chamber or space simply filled with dry air was the only practical non-condry air was the only practical non-con-
ductor and insulator yet discovered. I ductor and insulator yet discovered. I however $d r y$ it might be when confined within a close chamber, constructed by any material then obtainable, would soon absorb moisture, and in a moist state it became a conductor of heat, hence, was a poor insulator. This led me to seek a material that was both air and vapor proof.
The law of demand and supply, which is only limited by the supernatural, soon supplied me with what I required, and the demand. for such material Whs at once great, and has been, and still is greatly increasing-for architects have learned that even in the constiuction of ordinary drellings, the in-
sulation described is economical, and in hot climates as well as in cold, it is lux. urious.
Even with the good and suitnble material that wan supplied for insulating partitions, ceilings, walls and floors, no prarticable method was known of makigg close jointa in the material, the best of which is called conerote felt. De. mand again supplied the want, and we are now ablo to construct an absolutely close apartment or building, by which, and a practicable method of obtaining and maintaining a supply of dry air in insulating chambers, regardless of the thermal, or the hygrometric condition of the external air.
This wasiconceried to be a grand and unprecedented achievement, and an inestimable one as well, for it has already saved 40 or 50 per cent. of the fuel hitherto consuised in buildings located in cold climates, in the construction of which thorough insulation has been applied. Architects and builders every. where have been groping in the dark, and chasing in deep worn rute, until of jate, in their attompts at insulating buildings. They overlooked the cardinal characteristic in all good and efficient, wall-insulation, viz. absolute clasenass.

Fabulotis sums of money have been wasted in material and labor, in futile attempts to insulate icc-houses and other buildinge, by those who were ignorant of what I have emphasized as a leading essential in this branch of architecture. Another characteristic equally, if not
more inportant, has been, and is still more inportant, has been, and is still
un-heeded, because it is un-known, in un-heeded, because it is un-known, in the constrtction of insulated buldings. ting the insulation in foundation walls. If the foundations are not insulated, frozen carth lying againgt them will continually conduct the heat in the atmosphere of the cellar and give it off to the rapidly conducting frozen earth, and will dissipate heat, so valuable, and so expensive to generate, that proper insulation will effectually prevent. The highest temperature in the air of a heated building will continually fnd its way by conductirity and natural diffusion, and by the circulation in the confined atmosphere, to the upper ceiling, aud if insulation is there omitted, the waste of fuel for maintaining a comfortable temperature in the building will be many fold greater than those who have not investigated the sulject can be made to believe.

The material required for insulating buildings is not so expensive but that it is worth, when properly applied, many fold its cost, and its application does not involve skilled labor. A common Iaborer of average judgment, if he will be faithful, can apply it as well as a carpenter."

## CALVES FOR THE DAIRY.

No food is 80 good in the start for the calf as the mother's milk, but after a few days, skimmed milk may be substituted, given warm at first, less 80 by degrees afterward, until cold milk on water are reached. It is important that all changes be gradually made, for the greatest caro is to be exercised in the incipient stage of the young animal, as any error then will tell more than at any other period. The eftect of the scours is often a result produced by a change from warm to cold milk. generally better to start the calf ivith the pail than to let it suck the cow. Give a little a few times each day, as little is then needed and is safer. at this period. As the allowance is increased give the calf a chance to lick a little at bian or oatmeal, the quantity to be gradually increased as the young ani mal advances in strungth and growth. At the same time let it also have access
to hay. This is to be the main dependence, and it is of the same importance
that it is the beat to bo had. All old hoy is to be rigidly discarded. The best, and decidedly, is clover, and the medium or small kind prefered, on acmedium or small kind prefered, on account of its finer atems and its sub)
stance, beingin more concentioted form stance, beingin more concentiated form.
It ought to be cut before it is in blosrom, and well cured, so as to come out of the mow fresh and green and tender, With all its rich substance available. This is especially adapted for muscle and bone nutrition aided, if need be by bran or oatmeal. Next to this is grass aftermath well cured. Give all the liay the calf will eat, but leave none to be wasted. If circumstances require the uso of an inferior quality of hay make up the lack $b_{r}^{\prime \prime}$ bran or ontmeal or some nther muscle-forming food or some nther muscle-forming food
Roots always go well with a hard, dry Roots always go well with a hard, dry
hay. Of course there are to be dry hay. Of course there are to be dry
comitortable and sufliciently ventilated quarters. It is not enough to feed well; the animal wants to be petted to de velop the dounestic affection, which is closely allied to the matermal, by which the lacteal secretion is affected. This is in the cow, I know, but it wants to be $s^{\text {tarted }}$ in the calf, if the greateat good would be realized
It is to be seen to that this young stock is kept separate from the rest an as to escape fear and danger. In summer it wants good pasture, by itself, and free from molestation. Should the grass become scant, supply the deficiency with meal or green-cut feed; nover per mit the growth to cease, for the loss is permanent. With proper care, a cow of fair size giving a good proportion $n$ milk will be reached the second year with improvements to follow for sovera years however. 'This is securing a dairy herd in a short time rettiug atcompara tively sinall expense and with the cer tainly of a fine lot of animals, needing little weeding, which can be anticipated by raising a few animals more than the number desired. The reason why herda are not more secured in this way is tha he necessary attention is not givon It does not pay to raise a heifer tha does not come in till the third year If our dairy herds are to be improver -aud there is great chance for improve ment-dairymen themselves must tak hold and raise their own stock. It will pot only then be done, but speedily.F. G. in Utica Herald.

## HORTICULT'REI

## A FEW THINGS WHICG ORCHARD

The sentiments expressed in the following by T. T. Lyon, in the Michigan Farmer, will meet with the hearty as ent of experienced fruit-growers, with the eiception of those contained in the second parargraph :
"Never buy a fruit tree of poor or indifferent variety simply because it is large, well grown or symmetrical. Better pay ten prices for a desirable variety, even though the tree is small or ill-formed. With the same amount of care, a sraall tree will sooner recover from the shock of transplanting; while crooked or Ill-shaped tr, es, if healthy, crooked or lllshaped tri es, if healthy, wil gradually overcome these falle,
and hence become less and less objec. and henc
Never"trim up". urchard trees for the purpose of giving "head room" for a team in plowing and cultivating; since to do so, is to afford a grearer everage for the wind, and to provide emptation to the borer, which will rarely, if ever, work under shaded bark; while tbe average plowman will be almost certain to "put his plow down" low ranough to mangle the roots of the tree in his effort to bring the soil into good tilth. As a rule, neither plow nor cultivator should be allowed with.
in the spread of the branches of 0 growing fruit tree.

Sever leave ars pexces of fruit to mature upon a tree under the impres sion that by sn doing you can hope to increase the sipld, whether in quantity or in quality. An excessive crop is always secured at the expense of quality with loss of value; and not unfrejuenty at the expense of the bealth, and even ultimately, of the life of the trec.
Neve make the very common mis. take of supposing that a crop of fruit aud a crup of grain can be profitably frown from the same soil at the same time. A fer trees are well grown they will starve the grain crop or the grain will rob them. With quite young trees a sowed crop will prove acarly ruinous Till orchard trees are at least six or oight years pianted they should be cultivated each year with a hoed crop.
Never prune a tree, or at least never remove large branches, after the first warm days of spring, and before the foliage is of full size. Large branches, If cut away at that period will be sure to "bleed" more or less during the ummer, causing an unsightly blackensummer, causing an unsighty blackenoccasioning the decay of the heart wond from the excision downward, sometimes even causing the premature decrepitule and death of the tree.
Never forget that an orchard, as surely as a cornfield, consumes the fortility of the soil, and that to starve the oil is as sure to prove unprofitable in the one case as in the other. Trees may live on from year to year upon what they can draw from an exhausted soil ; but it will prove just as fallacious to expect a good crop of fruit under su?h circumstances as it would under similar circumstances, to expect a full crop of corn or other grain. We have no doubt but that the vigor consequent upon abundant nourishment, will in some cases enable an orchard tree to carry its crop safely through unfavorable circumstances that would be fata to the crop of a feeble one."

COMMMERCIAL.
'lononto, Miny soth.
since our last report the Wheat markot trongor and prices have incronsod. Now York and Western still siow nn upward tonancy. Montroal is frim, although the riso tons in Wheat. Suring Whent was quotod at $>122$ to $\$ 124$ for No 2, and No 2 Fall was at $s 105$ to 3121 . Flour is firm. Superior or tra is quoted at sin0 to $25 ; 5$ Spring oxtra
 says:
Tho shipments of chooso from this port durimg the wesel amount to jispl bovos, against 2,314 boxos last wook and 10,291 boxns choe: o market is still weak, and shippors Hre oporating with gront cantion. Salos wore districts ai 8 je, and wo quoto prices hore sic dulo with business roportod at within that ruge Thn upport movoment from Nev a3aiust 11,000 boxos last Weok. Both Londoun and Jivorpool private cablo advicos roport the price of choeno fat 528 . The
puhlic cabie, howerer is still 558 .
Tho cabtor merkot is quiat and
very little boing done on oxport account. Grass flavored stock is beginning to show a little bottor volume, which 80 far has boen poits from this city during the presont woek foot un onlv 404 prekngoz against 2 iff packayos last weok, and l, wis packagos for tho onresponding poriod last yoar. Tho shipt.) about 4,003 puckages, agalast 2,000 packages last veok.
Froights nin Luttor and choese havo boon
 London und Bristol. From Montroal 2 isig 30 s aro the ruling rates.
Butter-Wholusalo pincesib
Cronm'vifary frosh per ib
 Townehngs, choicu nov Momrisburg, fhirice new ne............. 14 to to 00 Brockvillo, choico nowl............................ 00 to 00


LIVE BTOCK MARKET.
buppalo, May 29, 1.81. attere.
road 001 pts of cattlo thus far this weok $19,1 \%$ nist wook; inoroaso 295 hoad. Shipmonts 17,895, ngainet 17,20s last wook: incroase 691
Tho sunply was fair to day, but tho domnad Was moderato and the markot woak, conseguontly a numbor of londs wore shipped out
 sales wore recortod:

Soller.
Pfolifor \& Windsor Bros... 5 j Woight Prico $\begin{array}{ll}\text { SRme do } \\ \text { Korr, Lovis \& Co............. } & 12 \\ 10\end{array}$
Rocoipts of of shoop and lambs thus far this Weok 16,600 hond, nzainst 19,600 to corresponi
ing dato last woek idocroano $\mathbf{3 , 1 0 0 \text { . Ship }}$ ng dnio last Weak 10 docroaso 3,100 . Ship 4,600. Tho markot was weak and oasy on a fair supply. Throe loads of ratior common quality brought $\$ 4$ coint 70 , and fair to good
$\$ 500,516$, with a load of choice at $\$ 5$, The following salos woro reported.

## forr. foller

No Woight Price
horr, Lewis dico
Same do
Plelffor \& Bros
Same do
Pame do
Same do
Swopo \& Eugher
Doty \& Watking.


#### Abstract

$\qquad$


78
7.5
98

Roceipts of hogs thus $\quad 79$ it 10 last weok. incronse 3 , 845 , corrogponding dato gainst 23,345 last wook; incroase 2 (ssi. The demand to day w 8 very modorato on light recoipts, and tho markot was about 100 lower Transactions were mainly on lncal account

 Pigs aud light woight Yorkers 3500 to 5.5 .
EXCLTEMEAT IN THE WVHEAT MMIE

> (GAZFTTEE.)

Montrial, May 27th.
The 1 vesent excitod condition of the wher vouber, Whon au attompt to control price proved abortivo, and brought disaster upon In tho frico of quite cable advicos from Great Britain, and vory ssyorable weathor for the growing crol, 8 on both sides of the Atlantic the price of wheat in tho Amorican market
has advancod 5 c within the pase which seems to imply that sumplont conith donce has beou infusod into the situntion to sustnin values horo, indeporidently of the collrse of ovents in cinrope. Chicrgo, as at-
uni, was the great contre of oxcitomont, and tho extent of specnlativo buying there, may bo judged froni tho fact that tho sales at tho nitornoon Board of to disy and yostorday arg grognted 80 mo G,215,000 bushols. it is stated
that quite a number of Montroal speculators hitvo boon loft behind in tho shary, upward turn of prices within tho past fow days, to comptorbalance which we hoar of sevora oporater is creditod with linving alrasdy rollod un tho handsome profit of $\$ 8,600$. Tho
quontion frempently yhe
lay pon the streat, to
 in (hicego. ing eround that there sis losa wheat in farm orw hands than hev heon smpporad. Fhor ro
 hushols for the corkesponining portod last your. The aithe rapply of whent on this
 Veni, shurving i decre:e o of $4,0: 50,000$ buylivis Sho umount to come formad before inarves poot for the ar. wing orop: should they bo moot for thetory, arnjority of holdors will re nin thelir whont for hettorpricos. Inatest ad
vicey fustify the ouncluston that tho wants of kurono will mot fail muoh if any bal thone of the prat yinr In fact, Great Britsin promises to want fully as much, and hor acro age of whent is no freator thatu for $18 \%$

VIGER COW MARISET.
"C azotto
Montrasl, May 27.
The suphly of milch cows to-day was larg but tho demantl was iorisk, arii by 10 ciclock this morning quite a numbur of food beagts
 roiusod on Fritiny last, Was sold to diny for
350. Mr. Orr of fomming ford, sold o cowa nt from 833 for frir qualitios up to 852 for
choice. Mr. Robert McIntosh, of Ormstown, solli sovon milch cows at $\$ 32$ to 815 oach, John liomnar bought 5 walle cows nt from 340 to 545 exch . Tho supply of lambs was oray, heveral salos having boon made at $\$ 2.50$ brought S5 oach. In hows wo have to roport the sale of a list of 23 at 86,75 nor 100 pounds. od, oxcept in ono or two luatancos. Calves
woro sold at 82.60 to $\$ 5.50$ oad, but tho offorings wero not tomplag. Xbout 130 milch corve vero ous che mertet.

## BY TELEGRAPK

## MEOREBEAL

Nay $2 s$. -Finur-1kecoipta, 3,570 bbls. Marextra roportod at $\mathbf{5}^{5} 00$, but this is e sep and can bo boudit readlly ooough at fro 3553 to 35524 ; 100 Ubls. suporior sold at 3550 00 bbls. spring extra at $\$ 535$; 75 bbls . stron bakers it $8550 ; 50$ do. at $\$ 505$. Quotations Superior oxtra, $\$ 550$; oxtra superode
3535 to $\$ 54:$ fancy, $333: 3$ spring oxtra 3535 ; superfino, 34 Mo to $3500 ;$ milddinge,
3410 to $3415 ; 1$ ilinrds, 8370 to $8380 ; 0 n-$
 Buttor Sow Entern Townsilps, 25 to 160 ;
Mrorrisburg, 14 to 16 c ; creamory, 19 to 201 c
Choese, 9 to ntc
 ancoverod, 13 to lis c.

Now York Produco Mariets.


 bush at $\$ 1.207$ to $\$ 1.27$ for June; 10,000 bush
 Dtiawa Marketa.
Ponk -Hoqe live carce. Hressed hog:

 Fer 1 lb
 8: 1 to 3.50 Grack



## Tolodo amarkot.

mary 3l-Call-Whnat-No Nod, 21.20 fos


 brish; oati, 4,001 bush. Shipmouts-Whon,


Ohionco Maricets
Mny 31 -Wheat- $\$ 1113$, nominal, for May; gust: 81081 for Soptomber: 81051 for tho yoar. Corn-13a for Jiny; 421 to $42 \%$ or Juno:

 Soptomber.

Milwankee Mrexkots.
May 31-Wheat-Si ilf for Tumo : 81 13 for July. 1 nacuipts-Flour, 12,432 bhis.; wheat, yye 2,000 bush; barloy, 2,000 bugh. Shin; mont, 2,000 bush;onts, 0,003 bush ; ryo, 1,000 bush; ; barles 1,000 bush

## Ostrogo Mrarket.

Mny :11-Whoat-Steady ; 1,000 burk. Whito Stoady; 1,000 bual mixed Wostern, $b s c$. Bar-ley-Inactivo.

Detroit Markot.
May 31 -Whort- No 1 white, $\$ 1,101$ bid for



Gurney,


MaNUFACTURERS OF THE
Harrest Queen Reaper, Nos. B. \& C.
Planet Mower (Rear Cut), Kawson Mower (Front Cut), Bushnell Self-Dump Hay fake.

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Every Machine is Warranted to Give Entire Satisfaction, Terms Liberal.
Seud for Descriptive Cntalogus snd Prices. Address,-
GURNEY, RUSSELLI \& OO.

## LTTERARX

## "L.ITITUDE UNKNOFN."

Like lomely seitor, on a forobign soa. Vithout a compurs and without a chart,
Unhelped hy all thoir lore of seaman's art Nouls ditit elong in the vest mystory: of Love's companionship. There cannot bo A solitude so pathless ass a heart.
No undiscovored isles lic so epart No undiscovored isles lis so eppri
From him tho seoks, as ile tho thoughtsthat Forover yearn to read behind dedr oyesTho dear eyos that mo lovo. and love to kias. Ah, well! Jut one thing matters tc our bliss, ef eloar, all hores are friendly, truastrolies A all; we shall nor ono sweet harbor miss

-SErlbn. - for Junt.

## THE TALE OF A TRAMF.

Suppei was over, and, seated before open wood fire, our small family bade defiance to the chill frost of late autumn. when my wife, lifting her head from the sewing in her lap said in a low tone:

## "Surely I heard a rap.

"Or a rat," suggested Charlie, fresh from college, and skeptical on any subjoct that might be broached. "Really, mother, if your hearing is so acute, please count 'he steps of that half-frozen please count "he st
"Nonsense, Charlie, replied his mother with a smile." "But I am sure I heard some one rap. There it is again 1 You must have heard that. Nettie, dear, run to the door."

The knock this time, though modest and apologetic in tone, was not to be disputed. Nettie reached out her hand to take the candle, but was anticipated by her incorrigible brother, who rudely blew out the taper, exciaiming

- Now, then, mother, for a test of your ingenuity; whe is this caller, and what is his or her errand? Listen! Can you analyze that knock ?"
"Nonsense!" exclaimed his mother again. "Some tramp, I suppose, who has seer, the light from the window,
But she was interrupted by Charlie's burst of merriment.
"A' tramp! And at this season of the year! No, no, mother: try again. A tramp's knock would reverberate through the house like thunder.'
"Come, Charlie," interposed I, " this is.idle. Yon may be keeping a neighbor waitung, or a child."
"A little' child!" cried Nettie, " and on a night like this ! No, brother, yo' shall not detain me another moment," and after a slight scuffle Nettie emerged in trumph, bearing the disputed candle. As she paises on the threshold to relight the candle, I may as well make public my secret conviction that a being aearer akin to the angels than our Nettie did not exist. ...Nettie opens the outer door; her'reendly face beaming a welcome to whoever might be standing in the darkness, while her ge
quires: " Who is there?"
We all listened intentl
We all listened intently for the reply. that, quite in keeping with the rap, was delivered in a low, strained vnice
"I am hungry' cold and sick. I saw the light from your window, and-_"
"You are vecome, sir," interrupted "You are ve'come, sir," interrupted
Nettie, gravely, And " she adrled, Nettie, gravely, And she adrled,
glancing an arch look at ier motherglancing an arr
The stranger, as he entered, directed an inquiring glance toward Netfie, as if not comprehending the import of her last words, nor. the smile that passed from lip to lip of the family circle.
Hangry, cold and sick! There are many such in the world, but few who bear such gizuine marks of distress. His clothing, worn and torn by long service, hung in limp folds about his shrmking, shivering form, while his face, pale and contracted by physical (or was it mental?) suffering, might have been taken for that of a corpse, were it hot for the
dark; brilliant eyes tnat barned deep in. dark; brilliant
their sockets.
Nethe had conducted him into the kitchen joining and by a clevor stratagem bequiled her brother out of his easychair, which, before he could natercept
her, she had dragged into tbe next room
and placed at the disposal of her visitor. "You are too kood," murmured the ily into the inviting chair.
"A model trampl" sneered Charlie, the loss of whose casyo,haur might have t-mpted him into whispering in a loud kep.

The stranger probably overheard inui, as he shielded !us face with his white, bloodless hands, and spoke no more.

Nettie flitted busily from room to room, from pantry to cllar, on hospita. room, from pantry to char, on hospita-
ble thought intent, apparently unconble thought intent, apparently uncon-
scious of her mother's slight coughs and other efforts to attract ber attention when the stork of preserves was invaded, when the stork of preserves was invaded,
although a close observer would have although a close observer would have
noticed by the tell-tale dimples in her noticed by the tell-tale dimples in her
cheek and the sparkle in her eye that she was quite cognizant of her mother's uneasiness.
O these children! how they do whee die and cajole their parents!

Nettie now resumed her place with us, and the stranger was left to his repast. Charlie produced a blghly-colored meerschaum, and, without regarding his mother's entreating looks, proceeded to fill and light it.

Come, Charle," she could not forbear saying at last. "it is not often that I ask you to sacrifice anything for me, but I do wish you would give up smoking.'

Obey!" thundered a voice trom the open door. "Let her lightest wish be law, or beware! My fate may be yours!" The man must be mad, or a strolling actor playing a part ${ }^{\prime \prime}$ cried Charlie, who was the first to recover from :he general amazement.
The effect of this remark on the man was magical; the extended hand dropped; his figure shrank and drooped into its former listless attitude ; the fire died out in his eyes, and his coat once more and hoarse, muttered an apology
"Forgive me. I forgot where I was aind who I am. No, I can never forget that. I'cannot ascape myself.'

Nettie's sympathetic soul wis touched.
" Perhaps you would likre to tell us about yourself. That is, you might like to feel that there were thos: who pitied your misfortunes. My brot'ier is sometimes hasty, but always kind-hearted. We would all be glad to assist you if we can."

My tale is one of hortor, and could gain me only your detestation: yet why should I shrink from the recital when the pain I thereby inflict on myself is the only penalty I can pay for my crime?'

I am," he continued, "or rather was, an actor, and so was my father before me. As a child I mimicked the set phrases and gestures of the actors about me, and early learned to look upon the piayhouse as my home and the field wherein I should develop whatever tal ents might possess. My father occupied the position of leading man at the actor in town, and was the most popular actor in town. My mother naturally looked upon the theatre as a rival, and
a successful one, to the home. Yet, for a successful one, to the home. Yet, for
all that, she never relaxed her efforts to all that, she never relaxed her efforts to make that home a pleasant and attractive one. Whatever her sufferings and despair might have been, she never voiced them. Only I remember on one occasion she had playfully asked me to manhood, and I replete. An actor mamma, an actor, by all means.' She pressed me closer in her arms, and I felt her warm tears on my face as she cried out: • Oh, not that, riy son I Anything but that. Choow, aly son I Anything your mother. But I obdurately insisted that I would be an actor and nothing else. From that mument my mother seemed From that mument my mother seemed to rejard me with great appre-
hension, and I am afraid would have sehension, and I anm afraid would have se-
cretiy rejoiced if my first appearance cretiy rejoiced if my first appearance
had been such an utter failure as to dehad been such an utter fallure as to dethat direction. Jut my father aided and encouraged me. Himself a conscien tous student, he would quench my toc
ardent enthusiasm by an immersion in
the ocean oi work that lies betwcen every artist and his goal; and anon, lifting me up to his own lookout, he would point out some new and undiscovered country, where fresh glory awaited the first cormer. Alternately stimulated and held in check. I rapidly grew in popular tavor, and divided almost equally with my father the smilas and tears of the town. Oh 1 he alone who has commanded them can testif; to the sweetness of the power.

About this time there appeared on e scene one of whom my father ner vously feared as a possible rival. He played parts that my father considered played parts that my father considered
peculiarly his own by right of repeated peculiarly his own by right of repeated
representation, and being young, hand representation, and being young, hand
some, and of good address, secured a large following of triends. The misunderstanding between this stranger and my father was of so serious a characte that they only spoke to each other when the demands of their profession forced some courtesy from one or the other, and it required all the firmness of the stage manager to keep them to their duties. One night, late in the season, when all the new plays had been worn hreadbare an old melodrama was re ived, and to my father and the newcomer the principal parts wero assigned Each now started out in the race to en lst the applause of the audience. My fither witched the bouse nervously. father wand on the stage to see to which ide its favor might incline He seamed ide its favormis plucked from his own o feel the laurels plucked fom his own and bound on a younger brow. Near he close of the play my father was to hoot his opponent, who was to fall dead at his feet. You have already appre hended the sequel. The gun, an old, unused one, supposed to be loaded only with a small charge of powier, went of n my father's hands, and the rival, whom he had so lately teared and hated, lay dead before bim.

I have related this incident 'to show you the cloud of misfortune that hung over our family, and shortly afterwards enveloped me in its folds.'
"Although probably no one actually belteved that this tragedy was other than a sad accident, yet some there were who, recalling the enmity between the two men, were malicious enough to whisper that the shooting was premeditated under cover of the play. These rumor's coming to my father's ears cut short his stage career. He secluded short his stage career. He secluded to one. Ore night, I recollect, he called me into his room, and said: 'My son, it would have been far better for me if I had purposely killed that man, for in that case my punishment would be de served and sure. This distrust, the averted eyes of those who were once proud to call themselves my friends, is killing me.' He must have spoken in a spirit of prophecy, for on the following morning he died.

- Soon after this event I was the re cipient of several flattering offers from theatrical managers, and I determined to return to the stage,
bitterly opposed it."
bitterly opposed it."
" My retura to the stage was followed by almost immediate promotion, and the people flocked to see me in parts my father had rendered famous. Many of my friends were anxious to see me attempt the higher walks of my art, and partly to please them. as well as to air certain theories and innovations of my own, I gave out that I would shortly essay the role of 'Othello.' For weels and months I studied this creation of the great dramatist, and succeeded in thoroughly identifying myself with the part. On the night before my debut as early, but my sleep was disturbed by dreams. By turns I was the fond and tender lover, the proud and powerful general, the crazed, rclentless murderer. " The morning dawned and developed na my own home a more horrible tragedy than was ever conceived by drama-
tist, for while I slept and dreamed a dastardly assassin had crept into my mother's chamber, and strangled the hife from het swect bacis. Upun het
fair white throat was the cruel imprint of the murderous hand, and, $O$ God while I slept, unconscious of her agony. she was struggling with her sinyer."

Weeks and months passed, but no clue to the murderer could be discovered, nor the object of the crime imagined My life, robbed of its truest triend seemed dull and melancholy. There was but one thing left for rae to do, and that was to recall and act upon her admonitions, so that, if haply ner spirit looked down on me, she might bless my efforts. I left the stage and sought in a Western State to give a new direction to Western State to give a new direction to
my life. Jut even here my reputation my life. But even here my reputation
as an actor had preceded me, and I was as an actor had preceded me, and I was
waited upon one evening by the manager waited upon one evening by the manager
of the local theatre with the request that of the local theatre with the request that
I would take the place of his leading man on the following evening, he being in capacitated by sickness from appearing. The plece was to be 'Othello!' I ac cepted the proposal, pleased that my name had not been entirely forgotten by the public. The hotel at which I stopped was oyercrowded, and the landlord in formed me that I would have to share my room with a stranger. But the 'stranger,' when be came in, proved to he an old friend, and we talkel far into the night about old times, mutual ac quaintance, hut especially of my forthcoming appearance is 'Otheilo' on the next unght. I slept, and dreamed once next night. I slept, avd dreamed once Venice breathing into .Desdemona's earice, breathing into Desdemonas ear my vengetul, cruel purpose. suddenly awakened by a terrific pull a my hair, and found myself standing ou in the middle of the floor engaged in a struggle with my friend. My hands were fastened in a vice like grip on his throat, and, cyen as I aked, his hold on my hair loosed, and he sank belpless to the floor. There are moments in life when, like an electric flash, all tha has been and much that is to be stand out clearly revealed, aud, awe-struck, we gaze at the fearful prospect. The mys tery of my mother's taking-off was no longer a mystery; it was these accursed hands that had done the deed, and condemned me, like Ahasuerus, to wander over the
ing none."
ing none.
With these words the young man con cluded his tragic story, and, seizing his hat, opened the outer door and disap, peared in the darkness. Nettie, with
white face, but moistened eyes, hastened white face, but moistened eyes, hastened
to the door with her purpose so clearly expressed in her manner that Charles cried out:
"Have a care what you are doing! You surely can't mean to offer tha sleepwalker a bed here? Ugh! I choke at the thought of it!"

Nettie shuddered, hesitated for a moment only then, leaving the door ajar, stepped out. We could not dis tinguish the words, but his reply was distinctly audible
"You are right. To me it seems as if my mother's voice spoke through you, bidding me cast off this burden of re morse and return to my art. with the re solve to win the name the future surely had in store for me"

Several years later our family were surprised by the receipt of a note, in closing passes from the manager of the $B \rightarrow$ theatre, inviting us to be present on the following evening, when Ameri ca's greatest tragedian would open a
and left me light-hearted and clearvisioned.'

Since then the actor has often been our honored guest ; and idle rumor has it-is the rumor idle? What then, do Netties blushes mean, as, bending over my shoulder as I write, she asks the question.

Father, don't you think it would sound better if your were to christen yuu' stuty 'The Tale of a Tragedian? -Eda'ard L. Stowell

THE DOMINION AS IT APPLEARS TO AN AMERICAN EDKTOR.
Mr. J. A. Howells who edits a Jefferzon, Ohio, Newspaper, has lately been paying this country a visit. Lis account of the trip will be interesting to our readers.
"It is not much of a jaunt to go from Jefferson to पuten Victorin's possessions, which lic just north of us. When we get there it is difficult to see the difference, and if one did not notice that the papers spelled labor with a a-labour, you could not tell by the look of the country but you were still in "the land of the free."
We left home on the 6th and return. ed on the 10th, therefore our personal appearance was not greatly changed in the time gone, but what a change in the face of nature? When we left, the red buds of maple had just begun to fall, and the faintest leaves on the elms had made their appearance. At various points along the road were glimpses of the lake could bo had, borad flelds of ice were in sight, and a heavy bank of fog rested over the water. But in the four days of our absence, all nature puts on a full.spring suit, and it fits wetter and sets snugger than many a suut sold by Isaac Abraham.
In going to Toronto we find the most convenient way is to take the 3: 38 afternoon train, which lands you in Buffalo in time for the Falls train, which an hour afterwards sets you down on the Canada side at Suspension Bridge about ten o'clock at night. If you are well tied together you cam stand the pulling and hauling of the the American House good quarters and the American House good quarters and the strect from the depot it is very convenient.

In the morning the first train for Tofonto to leave the bridge at 7:20. If you get up at say $5: 30$ you have ample tinfe to walk to the whiplpool and back hefore breakfast, and you combine a pleasant walk and wonderful sight, and git an appetite for breakfast.

The river by the bridge was covered by a fog, caused by the warm air on the floating ice. The ice cone below the Falls is still one hundred feet high, and is plainly visible from the bridge, and now forms one of the attractions.

TFo or three weeks ago an inhuman fellow threw a dog from the Suspension Bridge. He dropped into the raging waters below, and instead of drowning as it was thought he would, the poor felluw struck out for shore. He gained a small island on the American side under an overhanging cliff, to the top of wh ich is sume 200 feet. He was saved from drowning, but the elower death of staryation stared him in the face. He had not a cent to his name, for that had been washed out of him, and then it is a desolate isle, not more than a 100 feet long and 50 feet wide, and no grocery on it. But the dog had friendsmore than his master, for lynching was talked of, and ha had been fed by drop: jing meat ind bones of the bank to him In har weather it must be pretlouely. A path over the ikland marks louely. A path over the inand marks
the route he has trotted over ten thousand timis. He is pointed out to all
that pass over the bridge and forms one of the sights of that vouderful place.
He is not an entire circus, but he is something of an sniraal show.
The country is quite level and not interesting betreen the bridge and Toronto. As we near St. Catharines we cross the Welland Canal, and off in the distance at some points we wee the ressels sailing along apparently through the fields and above the line of the thead.

Since I passed over the road last, a tunuel has been cut under the new and enlarged sanal, whicu will be a great advantage to both the road and canal, as they will not interfere with one another. The tunnel must be several hundred feet in length, nnd as we dive into it without any notice $I$ was quite surprised. I was still further astonished by what I saw just as the first ray of light appeared through the front window of the car. 1 am not to blame either, although the young lady gaye me a look as much as to say: "Its me a look as much as to say: "Its
none of your business!" The young man who sat in the seat by her side had just kissed her, or had kissed her for the last time, just as the streak of jight glimmered through the window. She cast her cye bauk and although I looked as innocent as a babe, she knew it was a case of

## "I gav Eisau kissing Kate, The fact is, wo all thro saw 

But I bear witness that there was not a better behaved couple in the car, aside from this single indiscreet actthan they were, they did not oren look at me the rest of the ride. What a sad world this is.
At Toronto $I$ fourd my friends all well. W. D. Howells, S. D. Howells and Mrs. Frechette were also there, so thet we had the pleasure of meeting again. My father although geventyfour years old on the 15th inst., gave nie ample ovidence of his excellent physical condition by walking with me until I was thoroughly tired. We also took a row on the bay. It was most exhlirating sport and the delicious spring odors as they came over the water were most delightiul. The bay of Toronto is formed by a low sand islana two miles off the main land On this island Hanlan keeps a hotel. and on uhis bay he has done some of his famous fowing. I was sorry he could not see us row-he would have seon some strokes new to him, we are quite sure
From April 1, to Mlay 7, over 80,000 bushels of potatoes had been shipped from Toronto alone. Barley in immense quantities is shipped to the United States from that port.
On my return, at Hamilton I had the good fortune to fall in with Mr. E. C. Harris, who had been to Brantford to visit his daughter, (Mrs. Dr. Healy) who is happily married and settled at that place.

I found on the cars the usual people who travel by rail. The profound gentleman who talked like an Addison. and the good old lady who had come ou from "Filadelfy" and had been detained on the way and was going out beyond Chicago to visit hef san-in-law. Ghe would hove told much more but as ihe could only hold a passenger just about so long, that was all I got of her
story. story. J. A. H.

Tap Horse-noblest of the brute creation-when suffering from a cut, abrasion or sore, derives as much benefit as his master in a like predicament, from the healing, soothing action of Dr. Thomas' Eclectric Oil. Lamenese, swelling of the neck, stiffuess of the juints, throat and lungs, are relieved by

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clothing turned out by this establishment is of a superior cut and finish; in fact, any gentleman can go in and select a business or dress suit, and be quite as well pleased with his purchase as if he went into an ordinary tailor shop, and can effect a saving of from twenty to thirty per cent. Petley \& Co. now maintain that they are doing the largest retail business in the Dominion. We are not the least sumprised at hearing this; the only wonder is that all do not deal there, for cer'ainly their establishment presents manj advantages. The manner in which they do business is exceedingly sativfactory and it is a pleasure to deal with them. Their large rales and the cash principlo fully carried out has enabled them to out close, and their business has increased in consequence. They sell their goods retail at wholesale prices, and are probably the only firm in the city that do 80 . In short, the clothing department of Petioy \& Co. is unsurpassed in the Dominion for style, durability, price and taxture, and as we have said befose all they ask is an inspection.


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