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Correspondence.

For the Colonial Farmer.

RURAL TOPICS.

FEEDING BREWERS' GRAINS.

Many persons, living where brewers grains can be easily obtained, are interested in knowing the value of them, and to what extent they can be profitably fed to cows. It is a management to feed cows almost wholly on grains, as they injure them less than other ways; and they will immediately fall off in their milk when the grains are discontinued; and it is very difficult to restate them in their milk-producing qualities when long fed on them. In brief, it is not good management to feed cows exclusively on grains for a long time as they impair their health, and affect in some degree the quality of the milk; therefore, it is not advisable to purchase cows, when their milk is the main object, from one who feeds them almost exclusively on grains, or in a large degree. When grains are mixed with meal or bran—two or three quarts of corn meal, and the same of bran, to a bushel of grains letting the meal be a day till fermented slightly, no injury results if they are fed moderately on hay. Another good way is to place hay, grains, and bran, or meal, in layers—first a layer of hay, then one of wet grains, and meal, in the proportion of 20 lbs. of hay to 40 lbs. of grain, and four pounds of corn meal, or about these proportions, to be fed after every day.

RAISING TURKEYS.

There is no fowl more profitable to raise than turkeys, the bronze variety being the largest and most profitable. They require a free range over the fields, and large flocks often obtain all the food they need in foraging on grasshoppers, and grain fields after harvest. Farmers who have no near neighbors might make considerable money on them, as they always command a fair price in November and December. It would be the convenience for keeping enough stock to produce 500 turkeys annually be could easily clear \$500 on them, and possibly more. A large yard, with a fence 12 feet high, would be required to enclose them and, with poles to rest upon, some low and some high to give them a chance to reach the highest easily. No protection is needed in the coldest weather, as we often see them choosing the ridge of a barn to roost on in the winter, in preference to roosting under a shed. Around this yard might be placed empty barrels on their sides for them to lay in, first throwing in a few inches of dry straw over which place some fine cut straw, with a narrow board in front to keep it in place. A cheap shed on the north side would be a good thing for them to run under in severe storms. Then as many coops would be required as you have breeding turkeys, which should be placed outside of this yard as they hatch; and as far apart as you have space for them, 50 to 100 feet if possible. These coops should be well made, as they will last for many years. Let them be of a triangular shape, and water proof on three sides, the front being slatted up. Make them large, because a turkey with a large brood must have ample space. Where the coops are to be set, it would be a good plan to place a few inches deep of earth, so that the ground in the coops would never be wet in the severest storms; and when the young broods are cooped, very wide pieces of boards should be provided to set up in front of each coop at night secured by stakes to prevent any rats or other vermin from entering them; and also to keep the young turkeys inside the next morning till the dew is off the grass; and if stormy to keep them in all day. Perhaps it would be better to hatch the most of the broods under hens, placing nine eggs under each. As turkey raising is now confined to raising from 10 to 50 upon farms, my remarks, as applying to 500 or more, are not based on actual experience in raising that number, but rather on what in my opinion would be required to make the business a success; and I think the subject one that farmers should consider, in order to make all the money they can in such a branch of business.

HONEY BEES.

Honey bees may be procured in March & April, according to the weather. If very cold, they are better not be removed till April, or early in May. The Italian bees possess a few qualities over the black bees, being less pugnacious, and rather more active; but as they are sure to become crossed with our native bees, if any are kept in within three miles, and the hybrids become more inclined to fight when molested than either the pure Italians, or our black bees, it is a question whether a beginner should not be satisfied with the latter?

Italians are selling from \$10 to \$15 a hive, and the black bees from \$5 to \$8, according to the style of hive they are in. For selling honey, as a matter of profit, the movable comb hives are much the best; but they are expensive, when they contain the latest improvements, and a full set of honey frames, or boxes, for the cap honey, as it is called, being worth from \$3 to \$5 each. There are hundreds of cases where from \$10 to \$15 has been made in a season from one family of bees; but the ordinary profit is \$5 each if well managed; but if badly managed all the bees one buys to begin with and all the increase soon disappear. If a man fully understands how to manage bees, he can make money by keeping them, if the locality be a good one. There are men in Central New York, and in other States, who have from 500 to 1,000 hives, and they make a living by the business; but it is unwise for a man to go into this business extensively, unless he has had great experience in keeping bees.

STRAWBERRIES—PARRY'S SYSTEM.

Mr. Parry, the great fruit grower of Monmouth county, N. J., adopts the following course as a good one, in setting out strawberry plants. He plows furrows two and a half feet apart, and spreads along them a mixture of equal parts of muck, marl, ashes and ground bone. They are to be mixed a fortnight before using. Three-fourths of a ton of this mixture per acre, gives a luxuriant growth to the plants. The result might not be so successful on all soils. These rows are cultivated with a horse. He finds a good coat of stable manure just before winter, of great importance. Where marl is not to be obtained, a little addition of ashes makes the mixture equally good. In regard to varieties, another grower of this fruit is New York State says that he had the finest show of the Monarch of the West that he ever saw, some of the berries being 8 1/2 inches in circumference. In regard to the Seth Boyden, he says: "A small plot produced at a rate of over \$1,700 per acre." He closes his articles as follows: "Every farmer should have for his own table a bed of Charles Downing, for two reasons; that it is a good berry and will bear neglect, returning good for evil far better than onions or potatoes. A few Kentucks mixed in will give firmness and brilliancy to the mass. Epicureans and amateurs can have a yet finer dish and longer season from the following list: Monarch of the West, Wilder, Cambridge and Triump, Black Delaware, White Pineapple, and under proper conditions of soil and culture, Juenda, Triumphe de Grand, and Dr. Warder. A good list for market in order of value is Seth Boyden, Wilson, Monarch of the West, Wilder, Downing and Kentucky (mixed), Nisener, Green Prolific, Col. Cheney; the last two mixed with Kentucky or boyden, to bear properly." It is a matter for every strawberry grower to decide for himself whether he will have the rows two and a half, three or three and a half feet wide. In either case the ground will soon be covered with runners. The manner of manuring the land is also a matter for every grower to decide for himself; but if manure is abundant, I think it well to manure the whole land first, and then some can be placed in the hills or furrows, if we so desire to do. These remarks refer to field culture, or growing strawberries by the acre or less.

BARLEY AND OATS.

Some farmers sow barley and oats together, generally one bushel of barley to two bushels of oats. A farmer writes: "We usually seed down to grass with this crop, and are more sure of a catch than with oats alone. The barley and oats make good feed for all kinds of stock, horses, &c., and if harvested before the oats are fully matured, the straw (if well cured without too much rain or dew) will make better forage for cattle than late cut hay. We usually sow this crop by hand. We are fully satisfied ourselves that a larger number of bushels can be raised on a given number of acres than from either barley or oats sown separately."

CLOVER WITH HUNGARIAN GRASS.

I am frequently asked if land can be seeded to clover, or other grasses, with Hungarian grass. I answer, no, unless the Hungarian is sowed so that it will be worth very little as a crop of hay, or to be cut green for stock. If sown thick enough to make a good crop, the clover or other grasses will not smothered. Hungarian grass is profitable as a soiling crop, to be cut and fed out green, or for hay, to be cut while the seed is in the milk. This is very important, as when cut after the seed has been in the milk, it will not be so good. The following questions are asked: "I am at the present feeding it to both cows and horses, and they eat it with ap-

parent relish, and I am inclined to think it superior to timothy or clover. I am so well satisfied with it that the coming year I desire to sow ten acres, and would like to know how to raise three, or at least two tons to the acre. Upon which, seed or stubble, does it do the best? How would you advise it to be sown; by drill or broadcast, and in what quantity?" It will grow on any rich land, and produce two tons to the acre; but the three and four tons to the acre, that we read about, are very difficult to grow. On poor land you will get a poor crop. I do not advise growing this crop on a stiff, sward land, if you have any in good condition that was cropped last year. Sow the last of May to June 10th, a half a bushel of seed to the acre, broadcast, brush it in, and then roll the land. This secures quick vegetation, and leaves the land smooth.

BLUE GRASS AND TIMOTHY.

A writer on grass says: "Prepare the ground late the previous autumn, so that it may have a mellow fresh surface in spring, and very early sow timothy, clover and blue grass at the same time. About two crops of the timothy and clover are obtained before the blue grass gets full possession. After that it cloaks them out. The land is not to be pastured in less than two years from sowing."

Miscellaneous.

The Poor Farmer.

Too poor to take a paper,
Too poor to join the Orange!
So when the price was rising,
He did not know the change,
And sold his wheat for a dollar—
'Twas worth a quarter more.
And now the man is poorer
Than he had been before.
His neighbor Lookout told him,
This side the market town,
He should have come in sooner,
While groceries were down.
"But then perhaps 'tis even,
Since corn is on the rise,
And what you gain by waiting
Will pay for your supplies."
"Corn rising? why, I sold it!
The chap who bought my wheat,
Said, this year corn is plenty,
But mine was hard to sell,
And so he paid three shillings—
What I ever where 'tis four!"
The difference would give me
A hundred dollars more.

He drew the reins and started,
With a look of surprise,
And a deep sigh of thinking
Before he reached the town.
The upshot of the matter
You easily might guess.
This year he takes two papers,
And could not do with less.

Son of the Soil.

American Agriculturist, April 1st, 1877.

This number opens with a large illustration of Carolina Parrots and other American Birds, which is followed by 13 columns (including April Box Notes), of practical suggestions, hints and suggestions about Spring Work, in all departments. Grating is so fully explained, with the aid of the 11 engravings given, any man or boy even, can now do successfully. This article is also worth the yearly cost of the paper to those having fruit trees to improve. An important short article and engraving explains not only how to rapidly multiply valuable new potatoes, but also how to save \$5 to \$8 per acre in planting common sorts when seed potatoes are so scarce and high as now. Getting full light in interior rooms and halls is explained by an illustration of the AMERICAN AGRICULTURIST BUILDINGS, which are lighted by a new and improved plan, of general application.—A variety of Hamburgs are shown up in the regular chapter on this subject, a specialty of this journal, and in "Old Seeds with New Names."—Important suggestions are offered to farmers on "Asking Questions of the Soil," by simple experiments, instead of costly ventures in manures, etc. Prof. Atwater, of the Connecticut Agricultural Experiment Station, explains how to conduct such experiments.—Queen Plant Papers" treat of co-operative work among Milk producers, and shipping meats abroad—a new enterprise important to our whole country.—Two varieties of wine are described, with fine engravings of Poland and Lancashire Whites. "Among the Farmers, by One of Them," talks about a variety of topics, as Stable Floors, Millets, Coloring Butter, etc.—"Talks on Farm Crops," take up barley, oats and peas, their relative profit, appropriate soils, treatment, etc., etc. Several pages with engravings describe sundry useful contrivances and implements, a new potato, useful and ornamental plants, etc.—Peter Henderson talks about Gen-slims; Prof. Sargent about Planting Native Forest Trees, for Use and Ornament, etc.—Faith Rochester has three columns of practical Talks

with Mothers and Housekeepers. Vines in Windows, Moths and Millers, etc., fill up the Household columns—"The Doctor," "Aunt Sam," and others, amuse and instruct the young people with a variety of pictures, etc., including "Bird-Houses that any Boy can Make," described with six pictures showing them; How Things are Done in Other Countries, with a Turkish street scene. Altogether, this number of the *American Agriculturist* is very valuable, as well as interesting, and should be in every home. Price, 15 cents, or \$1.60 a year, post-paid. Orange Judd Company, New York, Publishers.

The Ayrshire Cow.

The Ayrshire is a breed that is thoroughly appreciated in Canada, where it ranks next to the Shorthorn in importance. Our farmers possess a great number of as pure bred animals of this class as money will buy, and certainly money could not be invested in a better-paying animal. The Ayrshire is thoroughly hardy, thrives well, gives a great quantity of milk and holds it for a long time—in fact, gives a greater quantity of milk for the food consumed than is given by any other breed. Now that the dairy business has become so systematized, that all which a farmer has to do, in districts where factories exist, is to supply as much milk as possible, the Ayrshire is becoming more valuable both as a pure-bred animal, and as a means of grading up the native stock. Mr. Aytan, a dairy authority, gives the following description of an Ayrshire:—"Head small, but rather long and narrow at the muzzle; the eye small, but clear and lively; the horns small, clear, crooked, and at their roots placed at a considerable distance from each other; neck long and slender, tapering toward the head with no loose skin below; shoulders thin, forequarters light, hindquarters large; back straight; broad behind; the joints rather loose and open; carcass deep, and pelvis capacious; broad and square, stretching forward, and neither fleshy, low hung nor loose; the milk veins large and prominent; teats short, all pointing outwards, and at a considerable distance from each other; skin thin and soft; hair soft and woolly; the head, bones, horns, and all parts of the frame small, and the figure compact and well proportioned."

There are two other characteristics which seem so thoroughly belonging to this breed that they ought not to be passed over. The one is the black points, which are the eyes, the ears, the hoofs, and the tail, which seem to be the natural color of the race, arranged not in considerable quantities, but in blot and patches. The animals generally present a sort of checked aspect of golden-yellow, red and white.—*Toronto Globe.*

Bringing up a Worn Farm.

Prof. Kedzie, of the Michigan Agricultural College, in an able address delivered before the Michigan Farmers' Institute, lately held, concludes as follows: "I believe the easiest and cheapest way to bring up a worn-down farm is by green manuring. Suppose your farm is too poor for clover, and grass makes only a feeble growth; put on it a manure crop that will grow, such as rye. Turn this under with your plow, and you can then raise something better. Keep feeding your soil with everything your shovel and your team can command,—ashes,—leached ashes, if you can get them by drawing them within five miles, muck, manure, anything that will bring a green mantle over your fields. Soon you can set the clover-pumps at work, pumping up to the surface the inexhaustible resources of your subsoil. If any animal dies, don't stop to bewail your luck and exclaim, 'Every thing goes to the dogs on my farm.' Don't send it to the dogs at all, but compost it with muck, or even soil, and thus secure a most valuable manure. Samson performed a wonder by taking honey from the dead carcass of a lion. You can do that wonder by extracting wheat from the carcass of your dead cow. Pick up all the bones you can find, put them under cover, and mix with them two or three times their bulk of ashes from your kitchen; moisten them with enough water so that the potash may act on the gelatine of the bones; stir them over once a week, and in a month or two you will find the bones so tender that you can cut and crush them with a blow from your shovel. Beat the whole into a powdery mass, and you will have a manure better than the superphosphates which you feel too poor to buy. Give a handful of this to each hill of corn, and see how it will wave its banner of green and pour into your basket the golden ears."

But in bringing your soil into good

condition, do not neglect green manuring. Let every wind that blows over your fields bring them a blessing in the shape of atmospheric plant food. Do all these things patiently, and hopefully, without urging your soil beyond what it can do, and you will yet, out of the fulness of a grateful heart, exclaim, "Bless God for the farm."

Location of Houses.

It is a matter of great importance that everything about the house be made to observe good health that the first location of a house becomes of the greatest importance. The *Science of Health* makes the following sensible remarks upon the topic, good for all to remember and practice:—"Houses should be built on upland ground, with exposure to sunlight on every side. During epidemics it has been noted by physicians that deaths occur more frequently on the shady side of the street, than on the sunny side; and in hospitals physicians have testified to the readiness with which diseases have yielded to treatment in sunny rooms, while in shaded rooms they have proved intractable."

Let there be no bogs or marshes, no stagnant water in the neighborhood. Then let the cellar be thoroughly drained. Inattention to this subject has caused the death of many a person. No father or mother could rest one moment in peace while their innocent babes are sleeping in rooms over damp and mouldy cellars. Cellars should not only be drained, but thoroughly ventilated, otherwise the house must be unwholesome.

Let the drains also be constructed for the condensation of the sewage, so that the drains will be at a distance from the dwelling, to be used for fertilizing purposes.

Plant a Raspberry Patch.

Reader, do you know how easy it is to grow five or six bushels of raspberries every year on a very small plot in your garden? And allow us to ask another question: Do you know that, of all the small fruits we grow in the garden, the raspberry is the best for canning for winter use? If you cannot say yes to the latter question, from a recent experience, try a few yards the coming season, and be convinced.

In regard to ease of growing, we will give an item of recent experience. Two years ago last spring we planted four rows of raspberry plants, each about seven rods long; two rows Mammoth Cluster, one row Philadelphia, and one row Doolittle, and Davidson's Thornless. The weeds were kept down, and good culture given with a shovel plow. The second year the crop was over two bushels. The past summer we got over six bushels giving the greatest abundance for the year around, and some for pocket-money for the children. Any one can do this who knows how to grow corn or potatoes. Put out the plants the coming spring, if you have not already done so.

Whipping Horses.

Prof. Wagner, in writing upon this subject says: "Many think they are doing finely, and are proud of their success in horse-training, by means of severe whipping, or otherwise arousing and stimulating the passions, and then crushing the will through which the resistance is prompted. No mistake can be greater than this, and no man who has any sense, or who is the ability, judgment and skill of the real horseman, as the care displayed in winning instead of repelling the action of the mind. Although it may be necessary to use the whip some times, it should always be applied judiciously, and great care should be taken not to arouse the passions or excite the will to obstinacy. The legitimate and proper use of the whip is calculated to operate upon the sense of fear entirely. The affectionate and better nature must be appealed to in training a horse as well as in training a child. A reproof given may be intended for the good of the child, but if only the passions are excited, the child is depraved and injurious. This is a vital principle, and can be disregarded in the management of sensitive and courageous horses at the risk of spoiling them. I have known many horses of a naturally gentle character to be spoiled by whipping once, and one horse that was made vicious by being struck with a whip once while standing in his stall."

Moss-Covered Apple Trees.

Mossy trees in an orchard, generally indicate too much moisture in the soil—that is that the soil needs drainage and the trees require stimulation. The surface of the orchard, and the roots of the trees undisturbed by plough or coulter.

Both parties agree on one point, the necessity of keeping up the fertility of the orchard soil by a liberal application of manure. No intelligent fruit grower pretends that you can gather from an orchard large and successive crops of fine fruit without keeping the trees well supplied with proper food, while one class favors applying the food to the surface, trusting to nature's operations to convey it to the roots where needed, the other class would work it into its proper place by means of plough, cultivator and harrow.

The advocates of "in grass" culture claim they more nearly follow nature's method of promoting the growth of

trees, keeping the surface cool and moist by the mulching of grass and manure, encouraging the roots and rootlets to grow in the most congenial, nourishing soil, namely, that within a few inches of the surface, while they claim that ploughing destroys many of the young, fibrous roots, compelling others to go down into the colder, less active lower soil and subsoil.

The advocates of clean culture contend that manure wastes less intermingled with the soil; that by keeping the surface clean, no plants are robbing the trees of their proper nutriment, while by keeping it mellow the nourishing grasses and moisture of the atmosphere find ready entrance, and moreover, that the frequent working and stirring of the soil promotes its disintegration, releasing to the growing roots, its plant food.

If we appeal to facts, we shall find that many orchards under thorough cultivation for many years, have grown good successive crops, and many under apparently as good culture have borne only occasionally good crops. We shall find that some orchards, that have yielded, annually, a crop of grass for many years, have borne annually or biennially good crops of fruit also. We have a small, family orchard of over a dozen varieties of apples, that was in grass when we purchased it, ten years since, and has been mowed every year since, the aftermath dying on the land, and yet this year it is well laden with fine fruit. We cannot conclusively settle the question by appeals to arguments or facts unless experiments shall be made more careful and exhaustive, but one thing we are confident we can rely upon as a fact, and that is, fruit trees must be fed to produce fine fruit. If they are deprived of proper food so that they fail to make a fair annual growth of wood, they will soon cease to be productive.

How to keep up the fertility of orchards at the least cost is perhaps what we may say, the most momentous question that confronts the orchardist, and one to which we purpose to give further attention.—*American Rural Home.*

INSTINCT OF WILD GEES.—"Dr. Lankford, who returned a day or two since from the south-eastern part of the State, mentions the following curious fact in natural history. He gives the statement on the authority of Mr. W. R. Smith, a leading farmer and miller living near Morley, in Scott County, Mo. About a year ago Mr. Smith captured two young wild geese and raised them with the balance of his domestic geese. The wild ones became quite tame and took kindly to the change of civilized life. They adapted their habits of ordinary delights of the barn-yard, and swam in the pond with the tame geese, without showing a disposition to go on a wild goose chase. At length, about the 4th of November, the weather began to change, and after being dome-icent some eight months the wild fellows, prompted by an instinct to seek a more sunny climate on the approach of winter, spread their wings to the breeze and started on a migratory tour, flying southward. Their departure was natural and to be expected. After an absence of two months, in January, great was Mr. Smith's surprise to find, on getting up one morning, that his wild geese had returned to their old haunts on his farm. They not only returned, but eleven more wild geese came with them as visitors, which they plied safely from some southern haven. The new comers made themselves at home, and were fed and fondled by the children. They came up to the mill at feeding time to get their ration, and gabble all together, and put on all the airs of civilized geese who had a good moral training.—*St. Louis Republican.*

The Depth of Trees.

There has recently sprung up some controversy as to the proper depth that trees should be transplanted, and as is usual in controversies of this kind among practical men, there is not the least hope of their ever coming to a common opinion on the question. All this is natural, as perhaps is to be expected. Different kinds of trees frequently require different modes of culture, beginning with the planting. For instance, dwarf pears should be planted deep, two or three inches below the union of the quince with the pear, in all soils where the dwarf pear ought to be. A fir or spruce should be planted shallow, and so, as a rule, should standard pear and apple trees, as well as most, if not all of the grape family. This exception should, however, be made: In light, porous soils they may be gauged deeper than in clay moulds. Thus, the heavier the soils the shallower should the trees be planted. Such is our experience.—*Ploughman.*

Our horticultural readers have undoubtedly observed that the question whether the orchards will do better under the plough and cultivator, or in grass, has divided our horticultural teachers for a number of years, and that all of the intelligence and experience of the best orchardists of the country is not by any means arrayed upon either one side. While we have men of such extensive research and large experience as the Darcy's, father and son, John S. Thomas and hosts of others, advocating clean cultivation, we have, on the other hand, such investigators as Thomas Meelan, Dr. E. W. Sylvester, H. E. Hooker, and many others, who favor leaving the surface of the orchard, and the roots of the trees undisturbed by plough or coulter.

Both parties agree on one point, the necessity of keeping up the fertility of the orchard soil by a liberal application of manure. No intelligent fruit grower pretends that you can gather from an orchard large and successive crops of fine fruit without keeping the trees well supplied with proper food, while one class favors applying the food to the surface, trusting to nature's operations to convey it to the roots where needed, the other class would work it into its proper place by means of plough, cultivator and harrow.

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trees, keeping the surface cool and moist by the mulching of grass and manure, encouraging the roots and rootlets to grow in the most congenial, nourishing soil, namely, that within a few inches of the surface, while they claim that ploughing destroys many of the young, fibrous roots, compelling others to go down into the colder, less active lower soil and subsoil.

The advocates of clean culture contend that manure wastes less intermingled with the soil; that by keeping the surface clean, no plants are robbing the trees of their proper nutriment, while by keeping it mellow the nourishing grasses and moisture of the atmosphere find ready entrance, and moreover, that the frequent working and stirring of the soil promotes its disintegration, releasing to the growing roots, its plant food.

If we appeal to facts, we shall find that many orchards under thorough cultivation for many years, have grown good successive crops, and many under apparently as good culture have borne only occasionally good crops. We shall find that some orchards, that have yielded, annually, a crop of grass for many years, have borne annually or biennially good crops of fruit also. We have a small, family orchard of over a dozen varieties of apples, that was in grass when we purchased it, ten years since, and has been mowed every year since, the aftermath dying on the land, and yet this year it is well laden with fine fruit. We cannot conclusively settle the question by appeals to arguments or facts unless experiments shall be made more careful and exhaustive, but one thing we are confident we can rely upon as a fact, and that is, fruit trees must be fed to produce fine fruit. If they are deprived of proper food so that they fail to make a fair annual growth of wood, they will soon cease to be productive.

How to keep up the fertility of orchards at the least cost is perhaps what we may say, the most momentous question that confronts the orchardist, and one to which we purpose to give further attention.—*American Rural Home.*

INSTINCT OF WILD GEES.—"Dr. Lankford, who returned a day or two since from the south-eastern part of the State, mentions the following curious fact in natural history. He gives the statement on the authority of Mr. W. R. Smith, a leading farmer and miller living near Morley, in Scott County, Mo. About a year ago Mr. Smith captured two young wild geese and raised them with the balance of his domestic geese. The wild ones became quite tame and took kindly to the change of civilized life. They adapted their habits of ordinary delights of the barn-yard, and swam in the pond with the tame geese, without showing a disposition to go on a wild goose chase. At length, about the 4th of November, the weather began to change, and after being dome-icent some eight months the wild fellows, prompted by an instinct to seek a more sunny climate on the approach of winter, spread their wings to the breeze and started on a migratory tour, flying southward. Their departure was natural and to be expected. After an absence of two months, in January, great was Mr. Smith's surprise to find, on getting up one morning, that his wild geese had returned to their old haunts on his farm. They not only returned, but eleven more wild geese came with them as visitors, which they plied safely from some southern haven. The new comers made themselves at home, and were fed and fondled by the children. They came up to the mill at feeding time to get their ration, and gabble all together, and put on all the airs of civilized geese who had a good moral training.—*St. Louis Republican.*

The Depth of Trees. There has recently sprung up some controversy as to the proper depth that trees should be transplanted, and as is usual in controversies of this kind among practical men, there is not the least hope of their ever coming to a common opinion on the question. All this is natural, as perhaps is to be expected. Different kinds of trees frequently require different modes of culture, beginning with the planting. For instance, dwarf pears should be planted deep, two or three inches below the union of the quince with the pear, in all soils where the dwarf pear ought to be. A fir or spruce should be planted shallow, and so, as a rule, should standard pear and apple trees, as well as most, if not all of the grape family. This exception should, however, be made: In light, porous soils they may be gauged deeper than in clay moulds. Thus, the heavier the soils the shallower should the trees be planted. Such is our experience.—*Ploughman.*

Our horticultural readers have undoubtedly observed that the question whether the orchards will do better under the plough and cultivator, or in grass, has divided our horticultural teachers for a number of years, and that all of the intelligence and experience of the best orchardists of the country is not by any means arrayed upon either one side. While we have men of such extensive research and large experience as the Darcy's, father and son, John S. Thomas and hosts of others, advocating clean cultivation, we have, on the other hand, such investigators as Thomas Meelan, Dr. E. W. Sylvester, H. E. Hooker, and many others, who favor leaving the surface of the orchard, and the roots of the trees undisturbed by plough or coulter.

Both parties agree on one point, the necessity of keeping up the fertility of the orchard soil by a liberal application of manure. No intelligent fruit grower pretends that you can gather from an orchard large and successive crops of fine fruit without keeping the trees well supplied with proper food, while one class favors applying the food to the surface, trusting to nature's operations to convey it to the roots where needed, the other class would work it into its proper place by means of plough, cultivator and harrow.

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173 CASES AND BALES

which, when opened up, will make
the largest and best assorted
stock ever introduced at
one time in this city.

Soliciting an Inspection!

in order to prove a guarantee of value
as represented here, and assuring
the public that the most ex-
treme courtesy will be ex-
tended by proprietors
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all times.

McDONALD & KEDEY

F Redick St., March 26, 1877.

will enable us to more readily to give you the goods you call for, and will further avoid all possible misunderstanding.

We do not try to bait an intelligent community with prices on a few cheap and shoddy articles as is customary, but give you prices on leading lines of Staple Goods, goods with which you are all more or less familiar.

REMEMBER—Our entire stock is paid for. We most emphatically assert, that we do not owe a single dollar on the same.

We do business to suit ourselves and our customers. We can (should we feel disposed), give our goods away and it would concern no one but ourselves.

Each and every article above enumerated is the actual wholesale price, by the case lot, less the discount for CASH which is our profit. In view of the closeness of our margin—we cannot and we will not give credit.

BUT CASH CUSTOMERS

Who do not believe in paying two or three prices for goods—who want the worth of their money, and not help paying delinquents, nor have their neighbors by an article 25 to 40 per cent. less than themselves, or those who buy one thing cheap and pay double the value for the next purchase.

Customers who look at the value of goods and buy where they can

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At and Below First Cost!

☞ Money is scarce, and in order to encourage CASH BUYERS, I will GIVE SUCH INDUCEMENT as will be NEVER BEFORE OFFERED in this City. Read the following List of Prices, and if you have any doubts about them, call and examine the Goods, and you will be convinced that I mean what I say.

THE STOCK IS LARGE & COMPLETE.

I will merely enumerate a few of the articles, viz.,

300 Pairs	Ladies' Serge Boots, at	- -	\$0.62 per Pair.
100 "	" Ladies' Serge Boots, at	- -	0.75 "
100 "	Ladies' Buckled Felt Over Boots,	- -	0.85 "
100 "	" Ladies' Buttoned Felt Over Boots, Fancy,	- -	1.13 "
100 "	" Men's Felt Over Boots, Plain,	- -	1.00 "
100 "	" Men's Felt Over Boots, Fancy,	- -	1.25 "
100 "	" Men's Artic Water Proofs,	- -	1.23 "
100 "	" Men's Oil Tanned Larigans,	- -	2.00 "

And all Other Goods in Proportion

[illegible]

Selections.

MOUNTAIN MEADOWS.

As already stated, John D. Lee has been shot for his share in the massacre of 120 men, women, and children in the Mountain Meadows, Utah Territory, nearly twenty years ago.

The New York Sun reproduces the history of the crime as follows:—The massacre took place at a time when Federal troops were advancing upon the Mormons, to put down the spirit of rebellion that had manifested itself among that people. The fatal episode was on the plains a little in advance of the troops, and by the time they reached Salt Lake there was nothing seen or heard of among the Mormons but preparations for war with the United States. Treated everywhere with sullen hostility, some of the tenseness were said to have given violent expression to their feelings, and even boasted that they had been present at the assassination of the prophet, Joseph Smith. The Mormons also boasted themselves of trapping off the heads of chickens, shooting at a cow, and threatening the woman who owned it. A story was also told of the emigrants having made a spring into the caecae of a dead ox and filled it with arsenic, so that Indians who after and partook of the flesh died. Another story was that the emigrants had poisoned a spring by the wayside, but the volume of water purging out of the ground was very large and would have required about a barrel of arsenic to affect it.

After some weeks of slow travel—for the cattle were footsore and badly fed—the emigrants reached the Mountain Meadows, where there was excellent grazing, and they resolved to stop. Their position was indeed pitiable, even had neither Indian nor Mormon molested them. They had but forty days' rations for a journey of at least sixty days.

On the first Monday morning after their arrival in the Meadows the emigrants concluded to renew their progress toward the Pacific, and before sunrise they were away with their preparations for an early start. Suddenly guns were heard, and seven men standing round the camp fire, armed with rifle balls. The emigrants hastened to defend themselves. They hurriedly ranged their weapons in a circle and threw up an intrenchment against the inside where they knew not who their assailants were, but they soon discovered that they were not engaged by vigilants, but by men who were not engaged in the fight. During four days and nights the emigrants were besieged, and suffered intensely from the want of water. There was a spring near the camp, but not a soul from the coral could approach it by night or by day without falling a victim to the deadly rifle. A number, maddened by the sufferings of their children, rushed from their place of refuge to seek a cow within the coral, and were shot to death at the animals' feet. After three days of suffering from anxiety and thirst, the besieged thought it possible that the appearance of children at night might tempt the heart of the attacking party. Two little girls were dressed in white and sent for water. They fell mortally wounded in each other's arms.

The hearts of the emigrants were lengthened by the sight of a wagon approaching them from the direction of the Mormon settlements. The occupants of the wagon were white men, and one of them held a white flag. The child of the party was a young girl named—John D. Lee.

A young girl was hastily dressed in white and sent out from the circle of the wagon to be taken to the persons approaching that the emigrants recognized their emblem of peace and bade them a thousand times welcome. Lee professed the greatest interest and friendship, and offered his services in pacifying the Indians when he represented as the attacking party. After this conversation Lee and his associates left, in order, as he represented, to visit the Indians, and after a few hours absence he returned with the proposition that if the emigrants would lay down their arms he would escort them safely to the Mormon settlements. The emigrants accepted the terms and surrendered their arms.

The sick, the wounded, the aged, the women, and children were placed in wagons provided for their transportation to the settlements, and Lee hurried them out of the coral. The men on foot were some little distance behind, escorted by the Mormon militia, and before they had gone half a mile from their wagons the order to halt was given at the head of the column. This was the preconcerted signal for the attack. The Indians, who had taken up their position among the cedars and trees by the roadside, sprang from their concealment and attacked the helpless in the wagons. The Mormon militia that walked side by side with the men on foot turned their rifles upon them and shot them down. But the work of a few minutes, and over 120 men, women, and children fell victims. The order had been given to spare the children, but in the confusion and excitement several of them were killed. Out of the whole number seventeen children, supposed to be too young to remember the incidents of the massacre, were permitted to live; but among these were two little ones who afterward gave evidence of remembering too much and too clearly, and they were sent to their graves by Lee. The Mormons returned to their homes laden with the spoils of their victims. The two trains were from Arkansas and Missouri. The former was made up of probably the richest carmen that ever crossed the plains. They had excellent cattle, blooded stock, the best of horses, and a number of light riding carriages. They were transporting to the Pacific everything of value they possessed. They had gold in coin, in jewelry, and in valuable watches. The women had taken with them their silks, satins, and best wearing apparel. The men had taken with them their suits of broadcloth, and as emigrants did at that time—brought outfits to last them for years in a new country.

The Mormons were exceedingly poor. They had no intercourse with the stranger, and no market for their labor but among themselves, and their only commerce and exchange was labour for labour or barter. They had no money, and were almost in rags. Suddenly many of the women wore silks, the men wore good clothes, and they could drive to their Sunday meeting behind good horses. The Indians got to the point of nothing of it. But a few years ago Brigham Young determined to get rid of the leaders by sacrificing the men who had been slain in the massacre. Lee and Haight were cut out from the Mormon Church, and when Haight asked to be heard, Brigham declared that he would not listen to a murderer. Lee, Haight, Hedges, and others that had been slain in his hands were from the United States. On the day of the massacre he thought that he could return in disguise from his cabin by the borders of the Colorado river, and the mouth of the Pariaha canal, to visit one of his wives in Southern Utah. On the first

had side all over the country, and one morning, over two years ago, Lee was surrounded by armed men, taken prisoner, and brought to the United States military fort near Beaver City, where he lay in bed for two days, and was then sentenced to be shot on the 23rd of the present month.

Prior to his conviction, he never told a living soul the truth regarding the crime. Even his counsel were deceived. He admitted this. He had such faith in Brigham and the Church, that the verdict "guilty" came like a thunderbolt. He never moved a muscle, but, sitting erect and immovable, eyed the jury like a hawk. When Judge Boreman read the sentence, Lee's face betrayed no sign of emotion. At the conclusion, when the Judge gave Lee his choice, to be shot, beheaded, or hanged, the old man arose slowly, and standing erect as a soldier, answered in a clear, firm voice, "I would rather be shot."

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The Science of Life;

More than one Million Copies Sold. Gold Medal Awarded to the Author by the National Medical Association, March 21st, 1870.

THE PEABODY MEDICAL INSTITUTE, a new edition of the **SCIENCE OF LIFE**, or **PHYSIOLOGY OF THE HUMAN BODY**, in its various relations to health, disease, and the principles of medicine, has been published. It is a complete and exhaustive treatise on the subject, and is the only one of its kind in the English language. It is the work of a man of high scientific attainments, and is the result of many years of study and observation. It is a work of great value to the student of medicine, and to the general reader who is interested in the science of life.

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For Diseases of the Throat and Lungs, such as Coughs, Colds, Whooping Cough, Bronchitis, Asthma, and Consumption.

The reputation is well known, in consequence of the marvellous cure it has produced during the last half century, is a sufficient assurance to the public that it will continue to realize the happiest results that can be desired. In almost every section of our country there are persons, publicly known, who have been restored from alarming and even desperate diseases of the lungs, by its use. All who have tried it, acknowledge its superiority, and where its virtues are known, no hesitations as to what medicine to employ to relieve the distress and suffering peculiar to pulmonary affections. CHERRY PECTORAL always affords instant relief, and performs rapid cures in all the milder varieties of bronchitis, as well as in the more formidable diseases of the lungs.

As a safeguard to children, and the distressing diseases which beset the Throat and Chest of Childhood, it is invaluable; for, by its timely use, mothers are enabled to soothe and soothe their children, and where its virtues are known, no hesitations as to what medicine to employ to relieve the distress and suffering peculiar to pulmonary affections. CHERRY PECTORAL always affords instant relief, and performs rapid cures in all the milder varieties of bronchitis, as well as in the more formidable diseases of the lungs.

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Golden Fleece. CARPETINGS AT COST.

The subscriber will sell AT COST the balance of his stock of

CARPETING now on hand. Also AT COST his stock of

LADIES' FURS. Terms Cash only.

John McDonald. Fredericton, Feb. 1871.

To Let.

THE shop in Dr. Brown's Building, at present occupied by Mr. W. SMITH, is to be let. Terms, Feb. 18, 1871.

Rainsford & Black, Barristers and Attorneys-at-Law, CONVEYANCERS, &c.

OFFICE: Carleton Street, F.T. JOHN RAINSFORD, J. BLACK, Barristers.

William Mills, J.C., COUNSELLOR AT LAW —AND— **NOTARY PUBLIC.**

Room 6, McMillan's Block, N. W. COR. Carleton and Queen Streets, Fredericton, N.B. Feb. 18, 1871.

J. CARLETON ALLEN, BARRISTER & ATTORNEY-AT-LAW, OFFICE—Hawthorne's Building, CORNER QUEEN AND CARLETON STREETS.

Professional Co-Partnership.

THE undersigned have this day entered into a professional partnership, as Barristers and Attorneys-at-Law, in the City of Fredericton, N.B., under the name of

Botsford & Legrain, OFFICE—Over Electric Telegraph Office, Queen Street, Fredericton.

RUG MONAGLE, SUGGESTOR, KING'S CO. BY, W. W. BUNNICK, Reader of Assize Cases, and Lecturer (Sole) on the Law of the Province of New Brunswick.

SAMUEL B. BELJUNG, HAMPTON VILLAGE KING'S CO., N.B. Breeder of Ayrshire and Manufacturer of Leather.

J. L. TURNER AUCTIONEER. Conveyancing and Collecting Agent. BILLS PROMPTLY COLLECTED. QUEEN STREET, FREDERICTON. Feb. 18, 1871.

EDWARD CALDWELL, Organist Church Cathedral, Fredericton.

TO Let. And Possession given at 10 P.M. THE two-story Dwelling House situated on King Street, now occupied by Mr. Peter, is to be let. Terms, Feb. 18, 1871.

Just Received A Splendid Assortment American Gray and White Cottons, Prints, Tickings, Jeans, Shirtings, &c. &c. &c. all offered will be sold at the very lowest possible prices. SIMON NEALIS. Feb. 12, 1871.

Professional Co-Partnership. A PROFESSIONAL CO-PARTNERSHIP has this day been entered into between the undersigned, who have united their names to the name of RAINSFORD & BLACK, Barristers and Attorneys-at-Law, in the City of Fredericton, N.B., under the name of

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Ladies' Fur Caps, &c.

Ladies' Fur Caps, \$1.00 to \$11.00
Woolen Shawls, 1.75 to 8.00
Woolen Gloves, .30 to .40
Woolen Hose, .25 to .50
Feminine Shawls, 1.00 to 1.25
Crossovers, .50 to 1.00
Breakfast Shawls, .80 to 1.00
Woolen Mitts, .80 to 1.00
Mantle Cloths, 1.00 to 4.00

Hoods, Shirts, and Dress Goods in variety at all prices at OWEN SHARKEY'S.

Mens' Overcoats, \$6.00 to \$12.00
Reefers, 4.00 to 12.00
Boys' Reefers, 3.50 to 5.00
Overcoats, 4.00 to 5.00
Fur Caps, 1.00 to 1.20
Fur Gaiters, 2.50 to 3.00
Kid Mitts, 1.00 to 1.15
Kid Mitts, 1.00 to 1.15
Fur and Felt Hats, 1.00 to 2.50

W. WILSON, Attorney-at-Law Conveyancer.

OFFICE: Hatheway & Small's Brick Building, Corner Queen and Regent Streets.

BECKWITH & SEELY, Conveyancers, Notaries Public, &c.

CITY HALL, FREDERICTON. Held at Oromocto and Fredericton Junction, alternate Saturdays.

FISHER & FISHER, BARRISTERS, COLLECTING AGENTS, &c.

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