

# FARM AND HOME

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## CANADIAN EDITION

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50 Cents a Year

### A Bit from the Inside.

**T**HE paper on which Farm and Home is printed costs nearly twice as much as it did a year ago. But the subscription price has not yet been advanced. It won't have to be, if every present reader, when renewing his or her subscription, will also send one new name. Can't you do that much?

It will pay you to try it. I don't believe in asking folks to work for Farm and Home for nothing. Our new premium list out Oct 15, offers bigger and better returns than ever to club raisers. Look out for it. There never was such a harvest offered to agents and subscribers. The good one does in extending Farm and Home's circulation is quite as much satisfaction as the money or premium earned.

Let's run Farm and Home up to a round million subscribers this winter. It can be done, too. If there's anything Farm and Home does not now do that my readers want, let me know and I'll try my best to make it serve them. This journal is working for the farms and homes of America, and I am always eager to do still more for them.

### The Home Coming

of our soldier boys after a year's service in Africa will be an occasion of great rejoicing. The troops of no other portion of the empire have acquitted themselves with greater valor, neither have others had more arduous duties to perform. Our boys proved themselves made of the right sort of stuff and containing the best of mettle. The home government has shown a high appreciation of the motive of the Dominion government in coming to its assistance, as well as of the individual soldiery of the men. The record of our boys is one of which they may be extremely proud. Some 300 men and 14 officers will remain in the service in Africa while about 500 will return home.

### A Text for Fair Managers.

The fair season is practically closed and while not unusually brilliant, the agricultural displays have been good, attendance and interest moderate. The splendid arrays of farm, field and orchard products at the provincial and large fairs of Ont., N. B., N. S. and the northwest bear testimony to the healthy condition of agriculture. It is worthy of note that the biggest and best fairs of the country were generally a unit in shutting out open gambling, and minimizing the presence and influence of fakirs and cheap side shows. But managers of many of the smaller fairs have yet to learn that the clean show is the one which in the long run commands the respect and support of the farmers. We could name certain fairs, and of some prominence, too, where wide-open gambling of a most disgraceful order has been permitted this fall, distracting in the extreme, and demoral-

izing to our farmers' sons. In closing accounts for this year and forming plans for next season's fairs, let agricultural societies take a firm stand against these iniquities.

### Cause to Rejoice.

A trader, in answer to my query, (see F & H, Aug 1) says Canadian farmers have been benefited because of the enactment of the following legislation:

The reduction of imperial postage from five to two cents and domestic postage from three to two cents.

Free carriage of mails on subsidized railways.

A 14-foot canal system from the lakes to Montreal.

The school question has been amicably settled.

A system of cold storage accommodations for ocean and railway transportation lines to British markets.

The postal note.

The improvement of quarantine regulations between Canada and the states.

### The People and the Railways.

The Dominion government, in spite of the overbearing attitude and general conduct of the C. P. R., is gradually acquiring a grip on transportation companies, which is in line with the demands of the times. The demand is strong in all countries that governments exercise more careful supervision over transportation lines and this is especially the case in our own Canada. Besides operating the Intercolonial in the maritime provinces, the provisions under which the Crow's Nest railway will be operated in the northwest have secured a reduction on grain rates equal to \$700,000 to \$800,000 a year. The Dominion government is indeed liberal in its subsidies to transportation corporations, but the people will continue to demand that their side of the case be as carefully guarded.

### Educate Britain's Youth.

The Dominion government has offered, through Lord Strathcona, high commissioner for Canada, to supply gratis to rural schools in Great Britain, books and atlases, giving the geography and maps of Canada, and also to donate a prize for the successful pupils in those schools adopting the books for teaching purposes. The offer is made with a view to instructing the rural population as to Canada's advantages, and thereby encourage emigration to the Dominion from the agricultural classes. In rural districts the project is said not to be received with favor, and in some localities it is stoutly protested on the ground that depopulation in those places is proceeding rapidly enough. There is plenty of room for good substantial farmers in all parts of Canada and the government plan, when introduced, will undoubtedly open the eyes of the coming gen-

eration in Great Britain to our great and unsurpassed advantages.

### One of Our Natural Resources

which is bound to be greatly developed is our export coal business. Inquiries at the Canadian mineral exhibit at the Paris exposition are of unexpected quantity and from all countries and trades. Coal dealers, railways and the large manufacturers are all interested and when told of the vastness of the Canadian supply express wonder and amazement. If difficulties over the line are not settled soon, maritime miners might supply large quantities of soft or even hard coal, in spite of a 67 cent per ton import duty.

### A Halt to Wild Speculation!

It began last spring in Europe, spread to England, and during the summer has shaken the "water" out of a lot of American "trusts." Speculators complain that times are dull, and the condition of general business, and especially of agriculture, was never more prosperous. Good thing to haul up short the promoters! Not local politics, but worldwide conditions, are the cause of this healthy stop to unhealthy speculation.

### Note and Comment.

One of the desirable outcomes of the recent Halifax (N. S.) exposition is the probable merging of the maritime Shorthorn breeders' association into the Dominion association. This is a step in the right direction that cannot be too strongly commended.

So successful has been the farmers' institute system of Ontario, it will now be taken up by the farmers of Manitoba and the northwest. Maritime breeders will find it to their interest to organize along similar lines.

Two of the exhibits at the Halifax fair created much comment, those from the islands of Jamaica and Trinidad, concerning which as a part of the British West Indies, so much is being said in the way of reciprocal trade. The fruits, spices, woods, rum, etc. were installed in the horticultural building and were accompanied by Mr. Norton, who has since spoken before several boards of trade of Nova Scotia on how reciprocal trade between the British West Indies and Canada may best be developed.

Is the United States to rule the world of finance? Looks that way. The big loan to England is followed by another to Germany. Russia seeks American money with which to pay for her wars. Interest rates, which have been tending downward in the United States for several years, are working up again in consequence of the foreign demand for money.

Soon after Farmer Meadows began to lose interest in the farm he began to pay interest on a mortgage.

### Making the Farm Pay.

#### LOCAL HELP FOR FARMERS.

One of the best means offered the farmer and his family for organization and co-operation is the farmers' club, with monthly meetings. Through it, the families of members are brought together, ideas enlarged and new ones acquired. Papers can be prepared on timely topics, while the discussions following bring out the best thoughts of members. Each is put on his or her mettle. The result is an uplift, a broadening of the mental horizon and a higher appreciation of their calling.

To stimulate interest in horticulture, fruit meetings can be held. In June, a "strawberry meeting," with strawberry culture as the chief topic, has been found popular. A generous supply of the fruit could be served at dinner. A raspberry, blackberry, peach, pear, plum, grape and apple meeting could follow in season. The discussion of fruit's would include the best manner of preserving and serving them. This would interest the feminine members.

One article that should be in the possession of every club is a light blackboard, that could be carried to the place of meeting, this for advertising purposes. Under the headings of "For Sale" and "Wanted," free advertising could be secured, as "Potatoes, Early Ohio, 50c, J. Jones," under the first, or "Girl to do housework, L. Smith."

Politics as the word is usually used should be barred, but public questions ought to be studied and discussed. All in a broad-minded way, without regard to party. The curse of the country is blind adherence to party, placing it above principle. The farmers acting together could control legislation, hence it is important that they be well informed on the questions of the day. A recommendation or protest by the state association of farmers' clubs would be heeded by a legislature that would ignore individuals.—[Apollo S. Long.

The Poultry Industry has been greatly stimulated over the Dominion by improved methods of fattening. Last year birds were fed as ordinarily done on the farm, on the box stall system, on the English crate system and on the French crumming system. Those fed ordinarily brought 40c a pair, those in box stalls \$1 a pair, those on the English system 1.20 a pair, those on the French system 1.40 a pair. While the flesh on the first-named chickens cost 20c a lb, those on the last-named cost only 15c a lb, showing that the highest priced birds, by reason of their being well finished though costing the most, were really the cheapest.

The C. P. R. is considering the advisability of making Boston, Mass. its ocean terminus for the winter, using the B. & M. R. R. in part.

Capt. Solomon Jacobs of P. E. I. last month caught 7000 lbs mackerel in eight days. His was a record-making trip. Capt. Frank Hall brought in 400 lbs caught in 48 hours.

The Galveston hurricane, which also caused injury in various parts of the United States, raised havoc among Canadian orchardists from the Atlantic to the Pacific. Especially severe was the fury of the wind on P. E. I. and in southern Ont.

The N. S. apple crop for surplus shipment is estimated at 600,000 bushels.

# FARM AND HOME

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## All Around the Farm. IN THE CORN HARVEST.

The corn harvester has been improved and perfected to a degree that makes it as satisfactory and reliable in the corn field as the grain binder in the wheat field. It cuts 8 to 10 a per day, taking up the corn clean and leaving the bundles in windrows convenient for shocking. The newest pattern harvester will cut and bind big corn, little corn, down corn, lodged corn, or any other kind of corn that grows in rows. Long dividers extend in front of the machine on each side of the row. The points of these dividers can be tilted as low, if necessary, that they plow the ground to get under corn that is laid flat. These dividers extend back to a high position over the binder, so that they keep very tall corn in a compact bundle in the binder. A peculiar feature of one of this year's machines is a sprocket conveying chains with locked joints. These locked joints allow a chain to bend in one direction to go around the sprocket wheels like any other sprocket chain, but will not let it bend the other way. The chain stands rigidly against the corn. Ordinary sprocket chains, if used as conveyor chains on a corn binder, bend and buckle and the projecting fingers turn and allow the lodged corn to slip back and choke the machine.

Heavy corn is very hard to cut, especially when it grows in hills. A reciprocating knife would have to cut an entire hill at one or two strokes and this requires so much power that it would choke the machine. The principal work of cutting is done by two stationary knives set ahead of the reciprocating sickle, one on each side of the row. These side knives are curved

so that as the machine is drawn forward they are forced gradually against the standing corn with a slicing, drawing cut, which requires much less power to sever a corn stalk than a direct blow across it. The knives are swept clear of trash by a pair of sprocket chains, which run just above them and facilitate the work of cutting by holding the corn against the knives. These lower chains also move the butts along as the stalks are conveyed into the binder.

It has been found very difficult to put a satisfactory bundle carrier on a corn binder, especially on the "platform" machines which bind the corn on a low table in a horizontal position. The latest model machines have a very satisfactory carrier which holds three or four bundles so they can be dropped in windrows. This saves a man in shocking. Another very important advantage is that in ordinary corn the shock rows can be placed 50 hills or more apart, the distance varying, of course, according to the size of the corn. This leaves wide lands for fall seeding or plowing.

The stalks stand in the binder on a floor which can be raised or lowered to adjust the band and place it in the middle of the bundle in corn of any length. This plan of binding the corn in a vertical position on a level floor makes the bundles very square and even on the butts, so that they are easy to shock, and stand up well, and there are no projecting stalks in the butts to get deep in the ground and freeze fast.

The saving in labor is only one of the advantages of using a corn harvester. When corn is cut by hand the work cannot be finished, except on very small farms, until the fodder has become too dry and its feeding value impaired. Corn fodder is like hay in that it must be cut at just the right time in order to realize the most feeding value from it. With a corn binder the crop can be put in shock at just the right time. Another important advantage is that the work is done quickly, leaving time for fall plowing.—[R. B. Swift.

## PROBLEMS IN WATER SUPPLY.

The results obtained in securing a water supply, in various sections and under various conditions, form an interesting study. Prof. E. H. Barbour of Neb., who has made a survey of many western streams, hints at how water may be secured, as illustrated



FIG 1. TAPPING THE UNDERFLOW.

In Fig 1, by tapping underflow streams. A river bed may be dry, yet its course, sand and gravel, may be saturated with water. This water may be brought to the surface by tunneling back under the river bed a sufficient distance to get the required amount of fall. One Kan farmer, after tunneling into the underflow of a dry river a distance of 1300 ft, at a cost of about \$1500, obtained a fine, steady stream of water, which in volume exceeded that from a neighboring pumping plant which cost \$60,000. This enterprising farmer more than paid the entire cost from the first season's crops.

Where the country is uneven, it has been found possible to dig a trench from a farm located on heavy soil, but lower than the underflow up to the

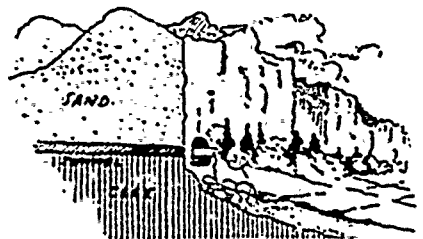


FIG 2. TUNNELING INTO BUTTES FOR WATER.

water, which usually has a bed composed of silt. This trench may even enter the underflow at right angles.

In the Butte regions water for irrigation purposes is sometimes wanted while held back by the abrupt hills or buttes. These buttes are sometimes composed of earth of a light character, while lower down is a hard bed

of clay. By tunneling back on the surface of the clay, into the sand, a considerable amount of water may be secured, as shown by Fig 2. Very often a seepage streak may be met with, containing a steady flow. Such may be looked for at the foot of hills or buttes that are naturally more or less wet and will generally pay well for tunneling.

## WHY CLOVER FAILS.

The middle tates sow wheat in the fall, turning down corn stubble therefor, and with the wheat is sown timothy seed. The following spring clover seed is sown broadcast over the wheat. In the crop rotation implied above, the most common rotation in this country, clover is depended on to supply fully half the total nitrogen fertilizer required for all crops of the rotation. If the crop fails, the nitrogen fails, of course. Unfortunately, too few farmers understand why a clover failure is followed by failures more or less complete in the following crops up to the fertilizing crop, this is usually wheat. It is simply a lack of proper plant food; following failures could easily be prevented by rational fertilization.

Many think young clover is "burnt out" by exposing it suddenly to the hot suns of July, when the wheat is cut. It is quite possible that young clover may be checked somewhat from this cause, but if the growth is full and vigorous there is no perceptible damage done, as many a farmer knows from experience. In fact, for some time before harvesting, matured wheat offers very little shade, else the ripening period would be lengthened, and also very irregular. Clover fails because the wheat has taken up practically all the available potash and phosphoric plant food in the soil, leaving the young grass to fight a battle with starvation. In the 4-yr rotation, ordinarily only the wheat is fertilized. If a yield of 20 bushels per acre is obtained, and that is a very low yield, the plant food actually taken up by the crop is in pounds as follows:

	Nitrogen	Potash	Phos acid
Grain, 1200 lbs.....	24	8	11
Straw, 865 lbs.....	5	8	2
Stubble and roots, 875 lbs 8	6	4	4
Total .....	37	22	17

This is the actual quantity of plant food required by the crop and it is beyond reason to suppose all the plant food applied as manure or fertilizer is utilized by the crop. With a crop of this size, the fertilizer applied to the wheat was probably 400 lbs, analyzing 2 per cent nitrogen (equal to 2 1/2 per cent ammonia), 2 per cent potash and 8 per cent available phosphoric acid. A comparison of the plant food in the crop with the plant food in the fertilizer is interesting.

	Nitrogen	Potash	Phos acid
In crop .....	37	22	17
400 lbs fertilizer....	8	8	32
Total .....	29	14	15

The figures show a surplus of 15 lbs of phosphoric acid, but a very serious shortage of both nitrogen and potash. Of course the reserves in the soil are drawn upon, thus wearing the soil on toward an inevitable condition of sterility. If the clover has been good the previous year, it is possible that the shortage of nitrogen fertilizer was made good by same. A good crop of clover, say two tons of hay per acre, requires plant food as follows—omitting the nitrogen which the clover manages to take from the atmosphere, and hence needs no artificial supply.

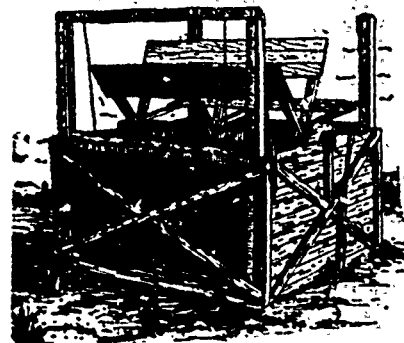
	Potash	Phos acid
Hay .....	88	17
Roots and stubble ....	24	8
Total .....	112	25

By the above figures the wheat crop shows a shortage of 14 lbs potash; this added to 112 lbs a needed by the clover makes a total shortage of 126 lbs potash. In the case of phosphoric acid, the wheat shows an excess of 15 lbs and the clover a requirement of 25 lbs, hence the shortage is 10 lbs phosphoric acid. It is evident that using small quantities of fertilizer on wheat, with the expectation of holding a clover stand the succeeding year, can succeed only by a steady and severe drain on the soil, sooner or later to result in a worn-out soil and an abandoned farm. As clover must have about 1 lb of potash for every pound of nitrogen it stores up

from the atmosphere, it becomes plain that a steady drain of this fertilizer means a sure failure of clover. A sure and simple remedy is to sow broadcast potash and phosphates over the clover shortly after the wheat is harvested.—[Byron Tyson, Moore Co, N C.

## WINDMILL AIR REGULATORS.

A wind guard or cut-off is sometimes essential on a homemade mill to regulate the supply of air, or to stop the mill completely. For this purpose the



MILL WITH WIND GUARD.

Illustration shows a strong upright at each corner. The protection may be made by the side of the box itself, to be raised or lowered on the uprights. The side may be raised or lowered by means of pulley, rope and cleat and the wind power thus regulated to varying velocities. Some use a sliding door instead of making the side of the box movable. Others hinge the bottom of the side so it may be laid flat on the ground, thus stopping the mill altogether.

The Potato Patch—On many farms the potato crop is a minor one. Often it is a small strip of land near the barn, and rotation is not practicable. In such cases there is no better plan than to apply manure early in Sept and plow it under 3 or 4 in. On this sow rye at the rate of 6 pks of seed to the acre. It will make a sod by winter, and grow in warm days of winter and early spring. It makes a splendid place to pasture the young colts, calves or lambs and to furnish a bit of green stuff for the poultry.

Muck as a Fertilizer—Few realize its value. Haul it this fall and leave it in the barnyard through winter. In the spring mix it with well-rotted manure and you will be surprised at the increase in the yield of crops.—[B. F. Hillman, Waldo Co, Me.

Windmills—What is the most durable tank on the tower of a windmill? asks G. W. M. of Ont. Can there be two automatic brakes on the mill, one for tank and one for watering trough? A wooden tank is as good as can be obtained if it is well made. In some places these are kept in stock or they can be made by any competent carpenter. An arrangement for shutting off the watering trough may very easily be made. It would probably be better to have but one connection to the mill itself and that from the tank. Connect the watering trough with the tank. A float in the tank may be arranged to turn on or shut off connection with the tank by turning a valve. There are a number of good mills, the makers of which advertise in F & H.—[Prof L. G. Carpenter, Col Exp Sta.

Fall vs Spring Plowing—My experience and observation has been, fall or winter plowing when ground is not frozen is much better than spring plowing. As a rule, late fall is a good time to plow and turn under weeds and seeds to rot until spring, making humus to enrich the soil. Insects will also be destroyed. Freezing and thawing will cause the ground to harrow into a mellow bed by spring. But if ground is clay soil, clean of weeds, fall plowing often is no advantage, as such ground will run together and form a crust on top hard to prepare for a seed bed.—[Jacob Faith, Vernon Co, Mo.

Breed Young Ewes—It is always more profitable to breed from young ewes as far as possible. Young ewes produce healthy and vigorous lambs at a less cost than old ewes.

Success Without a Mortgage.

STUCK PLUCKILY TO BUSINESS.

NINTH PRIZE ESSAY.

BORN on a farm, was educated at the district school. Parents were poor and had 10 children. Begun work as a hired man on a farm and saved my wages. Secured a deed for 40 a land and chopped wood to raise money to build a log cabin. Took ax, change of shirts and tramped on foot to land 60 miles, among strangers, cut logs, made a "bee," got cabin up, went back home and scored some timber, got a few dollars more, borrowed \$15 and got a friend to move wife and what little we had out to our new home.

My wealth consisted of a wife, who has been worth her weight in gold, that 40 a wild land and my muscle; not a cow, pig or chicken and in a new country among strangers, and nothing to live on but to earn by day's work. Wages were \$1 day, flour 9c p lb, butter 35c, pork 18c, sugar 30c, tea 2.50, potatoes 1 p bu, calico 40c p yd, sheeting 75c, files 90c, axes 2.50. Worked for our food and bought it all, including butter the first summer. In the fall run in debt for \$50 cow. Earned that amount by day's work. We also started a flock of hens; made them comfortable quarters, gave them good care, and our cow and hens soon began to help us. Put in all the time I had chopping on our own place and at the end of 4 yrs had a good chance to sell out. This I did and went 16 miles farther in the woods, 23 miles from a railroad, and bought 80 a with a little clearing on it.

Went in debt a little, but gave a note on 4 yrs time. Had one cow, a steer, pig and a fine flock of biddies. Sold the steer and bought a pair of 2-yr-old steers. Made a sled, run in debt for a wagon, sheared 200 sheep for a plow, began farming for ourselves and quit working out. Bought another cow and a few sheep. Chopped every winter. Wife cared for all the stock and I kept chopping from daylight until dark. In 4 yrs the farm was all cleared. Then we sold the oxen, bought a pair of colts and next year a top carriage. Began stumping and tiling the land. Have a barn 32x70 with 18-ft posts, with a granary that has been mouse proof 21 yrs.

Our house is up-to-date, of first-class material, has hard finished walls, every modern convenience, with elevator in pantry. Plenty of nice rain water the year around and a good pump and sink within 6 ft of the kitchen stove. The house is mouse proof from cellar to attic. The farm was all stumped and well fenced years ago. The barn has hay track in roof, steel carrier, etc. Have all kinds of fruit, apples, peaches, pears, cherries, quinces, grapes, raspberries, strawberries and asparagus.

Of course we are out of debt and have some money ahead. Have never had any help, neither pension nor inheritance. Our success has been attained by attention to the little details of business. Wife is a good manager, has made 1.47 per hen in a year, makes fine butter which we have shipped for years to the cities at fancy prices, which has paid better than the wheat crop. I breed to the best sires and have built up a fine herd of butter cows. We raise pigs and hogs. Wheat fields are seeded to clover. Raise plenty of hay. Plant sweet corn for cows for late summer feed. Cows come fresh in fall, are fed well and have warm stables; they are given good care and milked regularly.

We have made several visits. Took a trip to north Michigan of 275 miles last summer. We helped pay for our little church, pay our full share to our pastor and to all church societies, lend a helping hand to those who are unfortunate, burned out, or sick and needy. We keep posted, take six papers per week besides F & H. Have good neighbors and thank kind Providence that we have succeeded as well as we have.—[J. B. R., Mich.]

The Oldest and Poorest Ewes should be separated from the rest of the flock at once and turned on the choicest pasture.

Never put herd's brass before your sheep, says L. B. Harris of Vt; clover is better.

Animal Ailments.

CHARBON OR ANTHRAX.

Charbon is a name given by some authors to anthrax on account of the black condition of the blood found in animals that die from this malady. They are both the same disease and are caused by bacteria, "the bacillus anthracis" gaining entrance into the blood and then multiplying by rapid reproduction, giving rise to an inflammatory action and disorganization of the blood.

Bacilli capable of producing the disease have been found in the soils of meadows well known for their power of generating the disorder, and especially in those parts where post mortem examinations have been made and where animals have been buried. It has been proven by the experiments of Pasteur and others that in almost every case the food is the vehicle, and wounds the points of entry, so that animals having sores about the mouth would be liable to contract the disease if their food contained any of the bacilli. It has also been stated that animals with wounds about the feet and legs have contracted the disease from the bacilli on the grass. The outbreaks of anthrax are most frequent in marshy places during warm weather, heat and moisture being favorable for the growth of bacteria as well as of all other fungi. Cattle ought not to be allowed to pasture on places favorable for the development of anthrax, at least for several years. All animals dying from anthrax should be buried with their hides on or the skin slashed with cross cuts and buried in quick lime.

The researches of Feser show that the spores of the bacilli pass to the surface of the superincumbent ground, some say that earth worms carry the spores to the surface, thus each grave becomes a fruitful center of contagion; therefore they should be buried deep and the body covered with fresh burned lime. All places where affected cattle have been should be thoroughly disinfected. Anyone attending anthrax victims should be very careful, all the secretions contain the bacteria, and as the disease is communicable to man by inoculation, no one should attempt to skin animals that have died from anthrax.

The symptoms of charbon or anthrax take on several forms. Some cattle die so suddenly as to present no particular symptom. The majority of cases in this country are first affected in the throat and mouth, the glands of the throat and between the jaws swell and if the tongue becomes affected there will be a discharge of putrid saliva from the mouth; respiration is considerably interfered with and fever runs high, the animal refuses both food and water and debility sets in early and increases rapidly. In some cases there will be considerable sloughing of the tongue. Death generally takes place early in the disease. The attention of the stockman is usually first attracted by finding one or more of his cattle sick or even dead, as the disease often terminates fatally in a few hours. It will then be necessary for him to have an examination made as soon as possible by a qualified veterinarian to find the true nature of the disease.

Treatment should be attempted only in the early stages of the disease. Give at one dose 1 1/2 lbs epsom salts and 1 oz ginger dissolved in water. Then give 1 oz tincture chloride of iron, 1 dr quinine and 1/2 pt good whiskey in a little water at a dose three times a day. If the animal does not improve in two or three days it should be destroyed. The chances of curing this disease, even if taken early, are very few.—[Dr D. M. McIntosh.]

INDIGESTION—W. D. D. has a mule that has spells of sickness which last from one to two hours. Give 1 qt raw linseed oil and 2 dr fluid extract of belladonna at a dose. After the physic operates, mix 4 oz sulphate of iron and 4 oz nitrate of potassium, divide into 24 doses, give one once a day in bran mash until all are taken.

OPHTHALMIA—Mrs W. S. K. has cattle that have sore eyes; in some cases a scum comes over the eye, causing blindness. Keep the affected cattle in a barn from the sunlight and flies, bathe the eyes three times a day with cold water and after each bathing put a little of the following into the eye with a dropper: Acetate of lead 10 gr, tincture of

opium 10 drops and water 2 oz. In cases where a scum forms over the eyes, mix 8 gr nitrate of silver with 2 oz distilled water and put a little into the eyes twice a day, with a glass dropper. In some cases it will be necessary to continue treatment for a month or more.

DEAD PIGS—J. E. S. has two sows and every time they come in fresh some of the young ones are dead. Keep the sows in a small field instead of open and feed them on ground oats, peas, bran, ground flaxseed and milk. Jumping up the side of the pen at feeding time is likely the cause of the trouble.

RHEUMATISM—J. P. K. has four cattle affected by stiffness and soreness in their fore parts. Give each animal 1 dr lard of potassium at a dose twice a day in bran mash and continue it for two weeks. Then give each 1 oz Fowler's solution of arsenic at a dose once a day and continue it for several weeks. Also boil a teaful of flaxseed for each animal daily and mix it in the bran mash.

SCOURING—J. R. A. P. has a horse 6 yrs old that scours after being driven a mile or so; he keeps thin in flesh, although he eats well. This trouble is natural to some horses and renders them unfit for fast work. Medicines are of no use in such cases. Feed more oats and less hay and always water before feeding.

LOSS OF HAIR—G. M. G. wants a remedy to make the hair grow where it was removed by blistering for spavin. If the blister has destroyed the hair bulb there is no remedy. If such is not the case, the growth can be hastened by rubbing on a little tincture of cantharides once every third day.

ERYSIPELAS—W. H. has some hens that swell on one side of the head and the eyelid is closed tight. This is a form of erysipelas which affects hens and is contagious. Remove all the well chickens and disinfect the place where the sick ones are with carbolic acid 1 part and water 60 parts. Mix 1/2 oz acetate of lead with 1 qt water and bathe the head several times a day with a little of it.

INDIGESTION—Mrs D. F. B. has a cow that seems to eat well, but at times she will eat dirt and other stuff. She only gives about 1 gal milk per day. Give 1 1/2 lbs epsom salts and 1 oz ginger dissolved in water at one dose. After this operates, boil one teaful of flaxseed into a pulp and while hot pour it on 1/2 pail of bran and make a mash of it; give her a mash of this sort once a day with one of the following powders in it. Sulphate of iron 4 oz, nux vomica 2 oz and ginger 6 oz. Mix and divide into 24 doses. Repeat this quantity if needed.

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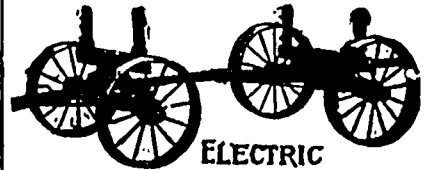
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**The Poultry Yard.**

**WORK FOR OCTOBER.**

Sort out the larger chicks and market them. Don't sell those needed for breeding. Refuse apples and vegetables will be appreciated by the hens. Hens which get through molting quickest and in best condition are the most vigorous and should be kept for breeders.

Buildings should be cleaned thoroughly, whitewashed and made ready for cooler weather. The laying stock may be moved to winter quarters and pushed for egg production. Give a variety of grain diet and what ever green food can be had. Feed cut hares twice a week. Birds for exhibition should be made ready a week or two before sending to the show. Accustom them to being kept in the exhibition coop, and get them as tame as possible. Look them over carefully to see that they are in condition to appear best.

Cool weather will bring on disease, if care is not taken. The most common disease is roup, which is caused by dampness and draft in almost every case, unless caught from other fowls. Drafts which cause a current of air to blow over the fowls at night are especially dangerous. At the first signs of disease, separate the sick fowls from the well, place in a warm room, and feed carefully. Iron tonic in the drinking water is excellent. Lay in a stock of cheap vegetables for winter use.

**MAKING MONEY FROM PIGEONS.**

I am a busy farmer's wife and have 200 pairs of good working pigeons which I care for myself, and love the time spent among them. This industry, without doubt, pays a larger percentage of profit on the money invested than many other kinds of business at the present time, much depending upon the care and management of course.

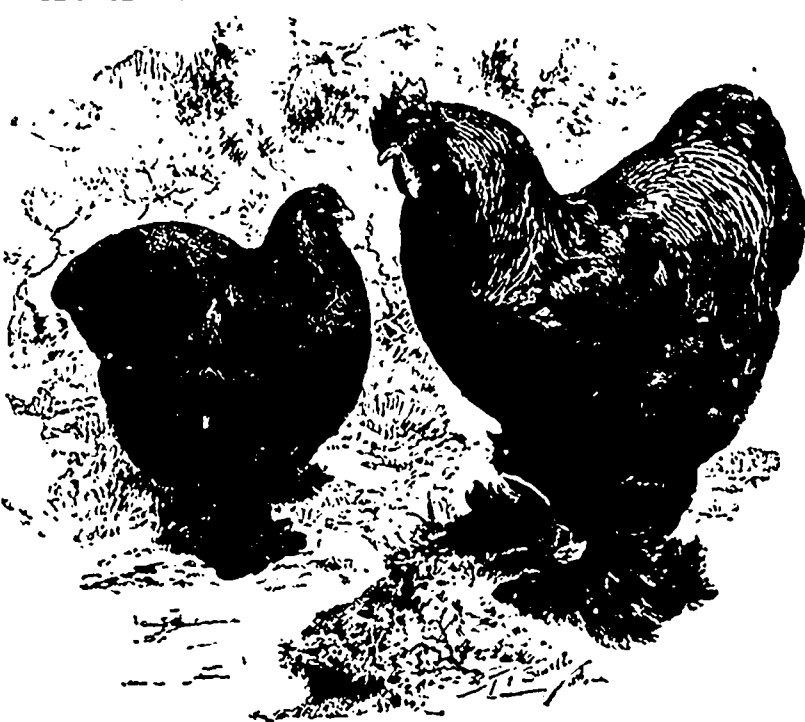
This is my estimate on 500 pairs. A pair of good breeders will have at least eight pairs of squabs per year. The average cost of feeding one pair a week is about 12c or 15c a year. Taking an average of eight pairs per year, 500 pairs would have 4000 pairs of squabs. Supposing 500 pairs of these would die, which almost always happens to a certain extent, at the close of the year 3500 pairs of squabs will have been sold. At an average price of 35c a pair for squabs the whole year round, receipts would amount to \$1225. Feeding will cost about 20, thus leaving a profit of \$35.

My husband claims that the manure from the pigeon loft makes the most valuable kind of fertilizer for corn. Any farmer is glad to buy it at a reasonable price. What better employment can any one find where the profit is so large? No one can expect to succeed in this business, as in any other, unless he puts his mind down to it and pays all attention possible.—[Mrs Anna J. Smith, Bucks Co, Pa.]

**A CHEAP POULTRY FOOD.**

The raising of chickens, turkeys and ducks can be made as profitable as a dairy of cows if the proper attention is given. I have found sunflower seed to cheapen their food to a mere nothing. It makes chickens lay and has fine fattening qualities for turkeys. It can be produced with very little labor and expense. I raise about 2000 plants every season by planting around the edge of the cornfield and in and around the potato patch, where only waste ground is occupied. On Y, I and in N J, the sunflower is raised on a large scale and the poultry fattened on it has a fine flavor. The seed is small, but very rich and oily. Some of the flowers will give 40 in and some plants will bear 20 to 30 flowers. A small garden will produce a great abundance for 50 chickens with a small amount of other food. [De Witt C. Haddock, Madison Co, N. Y.]

**Against Zigzag Breeding**—When cross breeding is mentioned, zigzag breeding is not meant. Mixing up half a dozen breeds in succession will be certain to muddle the flock into a set of run-down mongrels. Determine what is wanted, cross with that end in view and hold to it. For instance, if the main idea is to get a big supply of dark eggs, cross a White Leghorn male on White Wyandot hens. Select the best of the pullets, and those which lay



**Modern-Bred Partridge-Cochins.**

These heavily feathered Partridge-Cochins are typical show birds depicted by Sewall, the famous poultry artist. They are beautiful fowls, somewhat resembling the Dark Brahma in style of plumage, which is in color a mingling of glossy rich brown or reddish brown and black. The breed has the general qualities of the Cochins, heavy meaty bodies, hardy, good winter layers, persistent but rather clumsy sitters, dark brown eggs.

the darkest eggs breed back to a Wyandot male. The result will have the vigor of a cross and some of the valuable qualities of both breeds, but whatever crossing is done, hold to the original breeds and do not breed the cross-bred mates.—[Burr Knapp.]

**A Movable Henhouse** On stubble fields there is often a great deal of food wasted which could be utilized if the fowls could be induced to forage



**MOVING THE POULTRY HOUSE.**

for it. In some places, the young and growing fowls are housed in small, lightly constructed buildings placed on wheels which are large enough to accommodate 60 to 75 chickens. The birds are put in the house and drawn to the field, then fed once or twice to accustom them to it. They are supplied with plenty of fresh water and changed to new ground as often as they have picked up all the fallen grain.

**Our Subscribers' Inquiries Answered**—Mrs M. S.: The White Leghorns are the most popular of the Leghorn class, but the Brown and the Buff are equally as good layers. Plymouth Rocks are the most popular farmer's fowls. White or Buff Wyandots are also favorites.—G. H.: The hens whose necks are bare may have the itch. A hen with the itch is constantly scratching and biting herself and her feathers become droopy and fall out. Give sulphur in the drinking water for three days.—R. E. H.: The disease in which your chickens have limber necks and soon die is called by the Germans "Kriebel." The cause of it is smut found on corn or wheat, and would injure poultry most in hot, moist weather. The cure is to remove the cause, feed nothing but good sound grain.—W. W.: Young chicks should have grit as soon as they are hatched. If not supplied with grit they will surely die.—Tyro (O) Subscriber: Eggs may be kept in a room cooled with air from ice stored overhead for 3 to 5 mos. Care must be taken to store only strictly fresh eggs. Keep temperature as low as possible which may be about 34 degrees.—P. A.: A house should be at least 15x45 ft. divided into three parts for 100 hens. Four 12 light 2x12 in glass windows on the

south side would give enough light. To get winter eggs, it would pay to plaster the house inside. Two cocks to each pen would be sufficient for most breeds. Sow timothy and redtop for hay, 14 lbs of each per acre.

Received Woods Natural History and am well pleased with it.—[William Roos, Wentworth Co, Ont.]



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Business Side of Farming.

THE LOSS IN APPLE ORCHARDS

by reason of the furious gales of the middle of Sept proved very heavy. Millions of barrels of apples were blown from the trees, a large part necessarily going to waste. Losses were especially severe in such important apple growing sections as western N Y, northern N E and parts of O, Mich, the southwest, etc. Growers have shipped freely to elder manufacturers and evaporators, and considerable quantities of apples have been sold in bulk.

As a result the markets are demoralized and no stability need be expected until the flood of immature stock is out of the way. The ultimate effect on prices for winter fruit cannot yet be known. While the loss has been heavy, as fruit remaining on the trees is developing rapidly. Prospects a month ago were for the largest crop on record; after considering the losses indicated there will still be liberal quantities for sale in the western and northern states, in Ont and N S. The belief is general but not universal that prices should rule higher after Nov.

INTEREST IN CORN CONTINUES.

with a liberal movement of the old into consumptive channels, and the new crop practically matured in every section. Conservative estimates place the '00 crop at 2100 million bu, not a burdensome amount, and easily handled, considering the enormous home and foreign requirements. The crop is one of marked extremes, condition high in Ia, Ind, Wis, etc, quite satisfactory in the O valley, but considerably damaged in Kan, portions of Neb, Tex and other southern districts.

Reserves of old corn are said to be smaller than at this date for a number of years. We ship abroad annually about 200 million bu, and considering the enormous requirements in stock feeding north of O and west of the Miss river, belief is general that the crop cannot prove burdensome. Corn has held well around 40¢/41¢ p bu at Chicago, and is now reckoned higher than at corresponding date in a number of years.

An Interesting Western Crop—Earlier promise of a big flax crop, following the heavy increase in acreage, has been realized. With seed prices so high last spring, northwestern farmers in some instances doubled their acreage and now at harvest it is estimated that 2,600,000 a were under this crop, compared with 1,700,000 a one year ago. But owing to the extreme drouth conditions in much of the northwest, the average rate of yield is very low, approximating 9 bu. The bulk of the crop, however, is liberal, at 23 million bu, or the largest ever grown, compared with 20 one year ago, and 17 millions two years ago. Prices this fall continue high up to the close of Sept, No 1 flax selling at Chicago around \$1.55 p bu. In '96 flaxseed sold as low as 65¢.

Threshing Returns in the spring wheat territory continue to show generally good quality. This will do something to offset the shortage in the wheat crop in the northwest, due to serious drouth earlier in the season. Trade estimates place the crop of spring wheat approximately 180 million bu, winter 330, total 510, against 565 one year ago and 715 millions in '98. The yield is thus a moderate one, and there will be only a fair surplus for export in the shape of wheat and flour after home requirements are considered.

The Movement of Dairy Products is moderate and somewhat uneventful. Butter has sold somewhat indifferently for the time of year, with occasional price concessions. But with autumn pasturage irregular and often poor and hay and feed high in the middle and eastern states, the tendency is toward a restricted flow of milk and reduced output of butter. Cheese continues firm, with a good trade on domestic account and moderate exports.

Fair Strength in Hay is noted in nearly all markets and choice timothy is \$2.50 p ton higher than year ago in the east, and somewhat stronger in the west. According to the final report of American Agriculturist just

THE AMERICAN AND FOREIGN PRODUCE MARKETS AT A GLANCE

The highest quotations of wholesale prices for standard grades of farm produce in the leading markets of the world on the dates named; poorer stuff lower.

Table with columns for various commodities (Wheat, Corn, Oats, etc.) and their prices in different markets (Boston, New York, Chicago, etc.) for the month of September.

published, the crop approximates 52,000,000 tons, seven less than year ago and 16 millions short of the heavy yield of '98. Outturn in middle and eastern states generally unsatisfactory, especially in N Y, southern N E and parts of Pa and O, where many farmers secured but 1/2 to 3/4 ton per acre. The crop was generally secured in good condition and the average quality is satisfactory, with a liberal percentage of No 1 hay. The new crop is beginning to move freely with stocks of old hay well reduced east of the Miss river.

Potato Harvest at Hand—The main crop of potatoes, including late varieties for winter use, is now being lifted and going into storage at a rapid pace. Considering the very heavy acreage, the crop promise is only moderate. But potatoes are so universally grown that at present there is nothing to indicate any shortage. The movement from first hands is liberal, as is always expected at the beginning of the crop year, and prices are easy.

Barley Firmest in Months—With the coming of cooler weather maltsters are interested buyers, and current offerings of barley are quickly taken. The undergrades are also readily salable, as there is a good demand on export account. Prices have gradually hardened to 36¢ p bu and something choice is quotable at 50¢/55¢ at Chicago and 53¢/60¢ at Buffalo and N Y.

A Neglected Cereal—It is the exception rather than the rule when the rye market shows any activity. We are not a rye-eating people and our small annual crop is always ample for all purposes, much of it going to distillers. As for a long time past the market closely follows wheat and the present demand is light.

In a Single Week last month 4,000,000 bu corn were sold by Chicago shippers, destined for eastern and export markets; surely a healthy movement and indicative of a good absorption of somewhat restricted offerings.

Quietude in Wool Continues, the mills showing an indisposition to buy freely. On the other hand holders are confident and prices are steady at the recent slight decline. The political campaign is causing some business disturbance, and this is to be expected every four years.

Cigar Leaf Tobacco is commanding fairly good prices. Best of all, the crop is liberal and generally of fine quality. Growers in the Ct valley have harvested the best crop in years. The little cloud in the sky is the possibility that tobacco may be admitted free of duty from Cuba and the Philippines. Such action would of course greatly damage home prices.

A Million Bushel Shortage compared with last year is the record in the onion crop, which is now estimated at 3,356,000 bu in all sections where commercially grown. While greatly behind the crop of '99, the yield is fair placed beside former years. As indicated in the last number of F & H, harvest returns developed poor rate of yield in many sections as result of

that there has been a decrease of butchering on the farm, which would tend to increase the amount of pork put up at central packing plants, but the showing indicates a tendency toward increased consumption of pork.

The Hawk-Eye State's Big Corn Crop—The corn crop of Ia is bound to be a bumper. Such favorable conditions have not prevailed for many years. Most of the corn was out of danger of frost Sept 1 and this was the only probable source of crop damage. Moisture has been abundant, the fields free from weeds and everything conducive to an immense yield.

Large Supply of Wheat—The visible supply of wheat since Jan has been notably larger than in '99 and since the first of June almost double the visible supply since '96 for that period. In the middle of Aug it amounted to almost 50 million. Last year at the same time it was 36 million, in '93 six million, and in '87 17 million.

How Germs Are Killed—Bacilli or germs are at the bottom of almost every disease suffered by humankind. Five drops kills the germs and gives instantaneous relief. It is the only positive cure for rheumatism known to science. It is also an unfailing cure for backache, sciatica, neuralgia, laryngitis, croup, bronchitis, catarrh and all nervous affections. Buy a bottle to-day and have it in the house. It is the best investment you can make. If the remedy is not obtainable in your town, order of the Swanson Co. Send 25 cents for a trial bottle (postpaid), or \$1 for large bottle (300 doses); sent prepaid, by express or mail. Agents wanted where we have none. Write at once. Swanson Rheumatic Cure Co, Swanson building, 164 Lake street, Chicago, Ill.

Millbury Mass grange recently held a visiting day. A bus carried Patrons from one farm to another of the members, the object being to get mutual advice in the ideal way to run things.

drouth. The market is opening higher than a year ago and city dealers are interested buyers.

Hop Growers Favored—While the rate of yield is some what disappointing, prices are averaging better and the market presents a firm front. On the Pacific coast 15¢ p lb is being paid and in N Y choice hops are quotable at 15¢/15 1/2¢. The English hop crop is reported rather poor and much below a full one.

Pork Consumption on the Increase—The use of pork in the U S is on the increase. In '90 with a population of 61 million, we consumed 1,729,000,000 lbs, or about 28 lbs per capita. This year it is estimated that with a population approximating 76 million, we will consume 2,769,000,000 lbs, or about 36 lbs per capita. Of course this includes only pork used by the slaughter and big killing house centers. It may be

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Ayrshire Bull, Matchless 2d, No 8250, C A R. ONE OF THE PRIZE WINNERS AT THE HALIFAX (N B) EXHIBITION THIS YEAR.

The Dairy.

AYRSHIRES THAT WIN.

"Some of the finest Ayrshire cattle owned in Nova Scotia are the property of Fred S. Black, an enterprising farmer and dairyman of Cumberland Co. The head of the herd is Matchless 2d, No 8250, C A R. That he is of magnificent proportions and almost perfect conformation the illustration above indicates. He is a grandson of Nellie Osbourne of World's fair fame, winner of second premium as calf at the St John, N B, fair in '97, and first premium and diploma as best Ayrshire bull of any age at the Halifax, N S, show of the same year. He was also awarded first premiums and diploma at the same shows in 1898, and first premium at same fairs last year. Matchless 2d is sire of the first prize bull and heifer calves exhibited at Halifax last year; also of four individuals of first prize breeders young herd at the same fair; also second prize bull calf and first prize heifer calf at St John in 1899, and four individuals of the first prize breeders young herd at same fair.

The young bull, portrayed herewith, is Matchless 2d's son, mentioned above. He headed the young herd, being 10 mos old at time of exhibition. The



MATCHLESS 2D'S CALF.

cow, Jenny, of Lamieston, 3 yr old, imported from Scotland in the spring of 1899, is typical of one of Scotland's best cows from the Ayrshire district. The animals portrayed are largely white in color, as this color fashion among Ayrshires now predominates. These animals are being shown at the provincial fairs this fall.

RAISING FALL DAIRY CALVES.

When the calf is from 15 to 20 days old, it will often nibble a little clover hay, which should be tied in the pen with the heads down, or placed in a small manger or crib, where the calf will have access to it. When 21 days old, besides the clover hay, it may be fed a little whole oats or a little bran. The former is far preferable. Feed this to the calf until it is four months old, increasing the skim milk slightly and giving it all it wants of whole oats or

bran. Salt should be sprinkled on the grain feed, and the calf should have access to clean, pure water. After the calf is four months old, feed it ensilage in limited quantities, keeping it still to



AYRSHIRE COW IMPORTED LAST YEAR.

the oats, bran and milk feed, until it is eight months old. Never feed it corn meal or timothy hay in that time.

Be careful never to over-feed the calf. There are more calves killed by over-feeding than by under-feeding. See that your calf stable has plenty of ventilation and light and that your calves are well housed in the winter time. Do not pamper them, but keep them growing and thrifty. As they begin to eat the coarser foods, corn fodder, shredded, is a very good food.

In feeding skim milk it must always be fed at a uniform temperature of from 26 to 28 degrees. A dairy thermometer should always be used. Never allow the calf to run wildly about after feeding, as it will upset the bowels and cause scouring. When the calf is eight months old, it can be weaned from skim milk, and put to pasture, or fed on clover, roots, ensilage, ground oats or bran. The object to be kept steadily in view is to obtain growth of muscle and sinew, but never fat.

Avoid Sudden Changes—The Manhattan creamery received milk Feb 3, which according to the usual calculations would make 258 lbs of butter; but when the cream was separated and churned it yielded only 227 lbs, or over 21 per cent short of the usual run. In looking for the cause it was noted that on Feb 1 the weather turned cold and it snowed for two days. This goes to show that dairy cows especially should be provided with conditions as nearly uniform as possible. Any sudden change in temperature, feed or care may not permanently affect the percentage of butter fat in milk, but it will cause a temporary change both in quantity and quality, and may in a large measure account for the fluctuations in the butter fat test experienced at so many of our creameries.—[D. H. Otis, Kansas.

CLOTTED MILK—C. I. P. has a cow that gives clotted milk at times. This trouble is caused by a slight inflammation of the glands of the udder. Give 1/2 lbs epsom salts and 1 oz ginger at a dose dissolved in water. After this operates give 1/2 oz nitrate of potassium at a dose twice a day for a week in mash.

FOUND THE U. S. SEPARATOR TO BE THE BEST. TOPSFIELD, MASS., May 17, 1900. I have used a No. 3 U. S. Separator twice a day for the past 4 years with very little expense for repairs, and it runs as good as new to-day. Have had other kinds set in for me to try, but found there are none as good as the U. S. in my opinion. A. W. NYE, Foreman Pingree Farm. There are other makes said to be as good as the U. S., but users are constantly proving the falsity of the statement. If you wish the Best, then buy the U. S. Write for circulars. VERMONT FARM MACHINE CO., Bellows Falls, Vt.

IT PAYS TO DEHORN. Hornless cows give more milk. The best dehorner, the most humane and easiest to use is the Keystone Dehorning Knife. Cuts on four sides at once, without crushing or bruising. Endorsed by leading colleges. Highest award at world's fair. Send for circulars. M. T. PHILLIPS, Pomeroy, Pa. (Successor to A. C. BRADSHAW)

Nordyke & Marmon Co. Mills are famous the world over for their durability, economy and good grinding qualities. On the market over 50 years. The best for general farm uses and custom grinding. Guaranteed and sent on trial. Factory prices. Send for Book on Mills. NORDYKE & MARMON CO., Flour Mill Builders, 10 Day Street, Indianapolis, Ind.

MILL FEED Bran, Middlings, Red Dog Flour, Hominy Feed, Mixed Feed, Malt Sprouts, Dried Brewers' Grains. W. J. ARMSTRONG CO., Milwaukee, Wis. Carlot Buyers Write for Prices.

TILE DRAINED LAND is the earliest, easiest worked and most productive land. By using tile you get rid of the surplus water and admit the air to the soil both necessary to best results in agriculture. My AGRICULTURAL DRAIN TILE meets every requirement. Make also sewer pipe, and Fire Brick, Chimney Tops, Gasomatic Side Walk Tiles, etc. Write what you want and prices. JOHN H. JACKSON, 775 Third Ave. Albany, N. Y.

BUTTER PROFITS More money comes with the use of improved machines—and easier work. Send for our big illustrated catalogue—mailed free. "BESTOV" everything for dairymen. THE DAIRYMEN'S SUPPLY CO., 1937 Market St. Phila.

THE BEST BUTTER and the most of it is made by using our improved patented AQUATIC CREAM SEPARATOR. It takes all the cream out of milk, expels all feed odds and impurities in two hour's time. Better than any creamery made and costs less than half as much. For 1 cow up to 40. Can't get out of order. No appliances necessary. Prices, \$5. to \$11. Free catalogue and testimonials. Reliable Agents Wanted. Aquatic Cream Separator Co. 19 Factory Sq. Rochester, N. Y.

Label Dana's White EAR LABELS stamped with any name or address with consecutive numbers. I supply forty recording needles, joints and thousands of practical farmers, breeders and veterinarians. Samples free. Agents Wanted. C. M. DANA, 77 Main St., West Lebanon, N. H.

Take Off the Horns. The quickest, easiest and smoothest way, is possible only by the use of the CONVEX DISHORNER. Illustrated book free. George Webster, Box 78, Christians, Pa.

HAS NO EQUAL For Spavins, Ringbone Splints, Curbs, and all forms of Lameness, hocks or any enlargement. KENDALL'S SPAIN CURE. Write for the book. A. H. REID, 30th & Market Sts., Phila.

AN ACRE OF CORN and its possibilities under the Stages system, being the theme of "A BOOK ON SILAGE" By Prof. F. W. WALL of the University of Wisconsin. Revised and up-to-date, newly bound into a volume of 224 pages. It contains full instructions from planting to feeding the crop, and includes working plans and specifications for building silos. Also contains: I—Silage Crops. II—Silos. III—Silage. IV—Feeding of Silage. V—Composition of Silage and other Feeds. VI—The Silo in Modern Agriculture. And illustrations and complete plans for round and rectangular silos, dairy barns, tables of compressed ration, etc. Mailed for 10c. coin or stamps. SILVER MFG. CO., Salem, Ohio.

A CHALLENGE We challenge anyone to produce a hand separator that will run steadily (and at the same time skim, as much milk and skim as clean) as the REID Hand Separator. The Reid Hand Separator gained the first week three pounds of butter from the same amount of milk as before. It is the highest-running machine I have ever seen. C. W. Hines, Bristol, Pa. Write for the book. A. H. REID, 30th & Market Sts., Phila.

Do not be Urged Into taking anything "just as good." The wonderful success, the marvelous results achieved by Veterinary Pixine. Its quick and vital soothing and healing power, makes it manifest and pronounced. This is the safest and surest remedy to turn to to cure infected wounds, cuts, chronic sores, and skin disease, galls, scratches, affection of the udder, beef rot and mange. In fact it will cure any skin affection on horses and domestic animals. Money back if it fails. At all drug stores and dealers, or mailed postpaid 30c. 25c; 50c. 50c. TROY CHEMICAL CO., TROY, N. Y.

4 Buggy wheels with the ax, \$7.25. With Axles Waxed and Set, \$11.00. I make all sizes and grades with Steel or Rubber Tires. Send 10c in coin for circular or write to 24 in 4th. Tread with instructions in the address. Rubber Tire Huggies, 623, Buggy Tires, 624, 625. Special Grade Wheels for repair work & 1/2 ton freight prepaid, if you wish to-day. W. H. 2008, Center St., Pa.



Breeding and Feeding.

THE CORN CROP AND THE SILO.

In the light of recent experiments and study of the corn plant, it seems strange that so many of our dairy farmers situated on land adapted to the cultivation of the corn plant will still continue to depend on the west for their corn, which forms a part of the ration fed by nearly every dairyman. To me the silo and the corn crop seems as one and the same. My silo is built of rough hemlock boards set up perpendicularly, with the girls halved together at the corners. The bottom is also of boards double, with paper between, the same as the walls.

My silo has been built eight years and shows no signs of decay whatever. The corn is cut in the field and placed in bundles (not bound together) of suitable size to handle with ease, and they are then placed on a cart or hay rack in as much of a crossed condition as possible by keeping each bundle as compact as possible. By so doing it can be removed from the cart very easily. These bundles are packed in the silo. Care should be taken to have the stalks all lay one way, the longest way of silo, keeping the edges all around the highest and trod thoroughly in. If the silo is properly built, and these suggestions followed out, you will have no regrets to make except that you had not built one before. My silo is 10x13x16 and cost about \$25. Feed ensilage largely to steers with meadow hay and straw with satisfactory results.—[George Plummer, Maine.

ADVANTAGES OF DAIRYING.

There is an indirect advantage in dairying that no other business on the farm can show. First, early rising, which means more industrious and well directed labor. The milk hauler is generally along in the early morning, so that he may reach the factory with his load of milk before the midday heat. The patron of the dairy station has therefore to be astir in the early morning to have his cows milked and his can on the stand before the milk wagon arrives. This starting work so early in the day means more time for other necessary work later.

Then again, in patronizing the dairy station there is the healthy competition between the different neighbor-patrons. One tries to be up with the other or go 1 lb of milk better. This means better care of the cows, better pastures, punctuality in watering and feeding, and comfortable quarters, both summer and winter, which in turn means more money for the dairyman. From a consideration of the above, the solution to the query, why dairy districts are in most cases prosperous may be satisfactorily answered.—[J. E. Macdonald, Prince Edward Island.

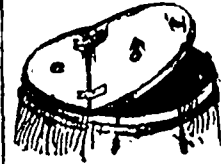
With the First Calf the heifer should be stimulated by regularity in feeding and milking, to keep up a good flow of milk; and to maintain this flow pretty close up to the next calving. The object is to fix in her continuity of milk. Never let her get fat, though. The keynote to success is the cow, and the foundation of the cow is feed and breed.

The Progressive Dairyman knows that he must have cattle of the very best character, that he must waste no feed and that no animal must be kept that is merely eating off its head.—[J. H. Grisdale, Ont.

Basement Barns are all right if properly ventilated and built above ground. No animal should be buried until dead. We never heard of tuberculosis before the advent of the bank or modern barn, neither did we hear of our friends and relatives having it during the log shanty and the frame houses with their open fireplaces. The bank barn and modern furnace-heated houses, while more comfortable, and in the case of cattle, savers of food, are at the same time converting the occupants into what may be styled hothouse plants. I have not buried any cattle alive, but I have a furnace. Are my children as rugged as they were before with the big open fireplace? Are they as jolly sitting away up stairs or in the various rooms all being heated up to 70 degrees as when we gathered around the big fireplace, the hickory and maple cordwood stick sending out a glow and live heat that no dead or unseen heat

can supply? Not only were these old-time winter evenings made enjoyable and more conducive to happiness and sociability, but it was infinitely more healthy. The same with cattle. It may cost a little more, but as regards health keep along on top of the ground, and if any tight stalls see that ventilation is all right, and then knock out a window or two.—[Richard Gibson, Ont.

A Substantial Cover on a flour or sugar barrel, as illustrated, will make a handy receptacle for keeping poultry feed, crushed shells, etc. Feed for cattle, horses or swine may also be kept in them. With a good cover, neither mice nor rats can get into the grain. Nail on a narrow board, a, so as to cover one-third of the barrel top. Cut out side to fit. Cut another board, b, wide enough to cover the balance of the top, and fasten to the piece tacked on, with hinges. Place a strap or knob on the opposite side as a handle.—[Lewis Olsen, Kandiyohi Co, Minn.



Pasteurizing Milk and Cream—Nearly if not every concern that has tried to put pasteurized milk on the market has made a financial failure of it. The reason is that people do not like pasteurized milk. It tastes, at first, the same as other milk, but the heating changes it in some way and after using it awhile the appetite falls on it and refuses milk of any kind. But with cream it is different, for cream is not much used for drinking purposes. Pasteurizing kills all germs and the pasteurized cream keeps sweet much longer. Also for butter making where a starter is used, the pasteurized cream is what might be called sterile and only the germs which cause ripening and souring that are added to the starter have a chance to work.

Keep One Breed—It is worth a good deal of money for the breeders of any one breed of stock in a county or section to be known as leaders. They should by all means hold to that breed. Cross-breeding or the keeping of a number of breeds of one kind of an animal is not the surest road to reputation, wealth or knowledge.

With the First Calf the heifer should be stimulated by regularity in feeding and milking, to keep up a good flow of milk; and to maintain this flow pretty close up to the next calving. The object is to fix in her continuity of milk. Never let her get fat, though. The keynote to success is the cow, and the foundation of the cow is feed and breed.

SHARPLES Cream Separators ALWAYS THE BEST. If no agent in your neighborhood will bring a Sharples Farm Separator and demonstrate its superiority, we will loan you one absolutely free. The machine will be loaned with no obligation to buy, a guarantee for its prompt return in case it is not bought being all we ask. One agent may out-talk another who represents a better machine, but a superior machine will demonstrate its superiority in an actual trial. Send for catalogue No. 88. P. M. SHARPLES, West Chester, Pa. THE SHARPLES CO., 28 So. Canal St., Chicago, Ill.

STEEL HORSE COLLARS Never wear out, need no hames, adjustable in size. It any horse will not pull but feel easy, put on and taken off in half a minute. Lighter than other collars and hames. AGENTS WANTED in every county. Every farmer and teamster wants them, because practical, sensible and cheap. Good money for workers. Write to particulars and territory not taken. No charge for territory. HOWELL & SPALDING, Box 9, Cora, Mich.

"ALPHA-DE LAVAL" CREAM SEPARATORS —250,000 IN USE— Ten Times All Other Cream Separators Combined. THE DE LAVAL SEPARATOR CO. RANDOLPH & CANAL STS., CHICAGO. 103 & 105 MISSION ST., SAN FRANCISCO. General Offices: 74 CORTLANDT STREET, NEW YORK. 1102 ARCH STREET, PHILADELPHIA. 327 COMMISSIONERS ST., MONTREAL.

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The New SMALLLEY Cutter makes the Silo pay. SUCCESS is assured if you use New Smallley Cutters with semi-circle carriers for cutting and elevating ensilage. They have automatic self feed, also Corn Shredding and Corn Husking attachments when desired. Mounted on 4 wheel trucks for easy moving. A strictly "open date" machine. 1900 "booklets mailed free." "Banker Silo News" and "Farming on Business Principles." Ask for special introductory prices on Smallley and "Battle Crock" WOOD SAW, GRINDING MILLS, KAE CORN CRUSHERS; also SWEET TREAD AND STEAM POWERS, stating goods you wish to purchase and mailing paper in which you saw this advertisement.

THIS IS OUR VISITING CARD The Appleton No. 9 Fodder Cutter. A Foretaste of "Appleton Quality." Simply for the purpose of acquainting you with the superiority of "Appleton Quality" we have a lively trial on the market and will sell it at an extremely low price. It is a complete machine as any of our "New Hero" Fodder Cutters. It will cut and finish, you should one of getting out power ensilage and feed, a hunker, wood saw, wind mill, steel tanks, etc. We can give you "Appleton Quality" which is the best—also also. 100 page descriptive catalog mailed free. APPLETON MFG. CO., 23 Fargo St., St. Paul, Minn.

SPECIAL PRICES OSGOOD BROS. Catalog Free. Write now. BINGHAMTON, N.Y. BARN PLANS AND OUT-BUILDINGS Two hundred and fifty-seven illustrations. A most valuable work, full of ideas, hints, suggestions, plans, etc. for the construction of barns and outbuildings, by practical writers. Chapters are devoted to the economic erection and use of barns, grain barns, horse barns, cattle barns, sheep barns, corn houses, smoke houses, ico houses, pigeons, granaries, etc. There are likewise chapters upon bird houses, dog houses, tool sheds, ventilators, roofs and roofing, doors and fastenings, work shops, poultry houses, manure sheds, barn yards, root pits, etc. Cloth, 12mo. Postpaid, \$1. Catalog free of this and many other publications. ORANGE JUDD CO., 52 Lafayette St., New York.

THE FAVORITE CHURN. The great time and labor saver; makes the best butter in from 3 to 5 minutes. Sent on 30 days trial. If not as represented, money to be refunded. Buy the Favorite and have no trouble. Agents wanted. Address H. L. ALLEN & CO., 1141 Hopkins St., Cincinnati, O. Please mention FARM AND HOME when writing to advertisers.

The Swineherd.

BEST HOGS FOR THE MARKET.

In buying, the question of breed is given but little attention, quality and condition being the chief consideration by most pork packers.

White hogs are preferred by some, but no premium is paid for color. The most desirable average live weight is from 200 to 275 lbs and moderately fat.

At present there is no special demand for bacon hogs, says Armour, but Swift says there is a growing demand.

THE WAY I RAISE PORK.

My main business in summer is raising small fruit. Generally keep three or four cows and sell milk in hot weather.

THE POOR MAN'S PIG.

The number of pigs kept by the colliers and artisans of the north of England fluctuates with the price of coal and yarn.

The sites in which these animals live are very rough affairs, often made of a few boards nailed over railway sleepers.

Whole Corn or Corn Meal—The average of 12 experiments at different experstas throughout the country, in which the amount of feed required for 100 lbs gain in live weight is given.

The Shepherd.

HERDING ON WESTERN RANGES.

There are two systems of sheep herding in the west. One is the tramp system, the other the home system, which is followed largely in Col.

In feeding, the corn is sown broadcast upon the ground, just outside of the corrals, while the sheep are still inside. Then the sheep are let out and they eat the corn clean.

LESSONS IN SHEEP KEEPING.

Here are some of the lessons we have learned: We can winter two sheep for each one summered. A wether can be bought in Dec for \$4 and sold, out of the wool, the following May for 4.

Our rotation is more manure, more corn; more corn, more sheep; more sheep, more manure. When a mow is empty we can fill it with sheep.

Weaning Lambs—Always give the lambs a little grain; bran and oats is preferable, immediately after weaning.

Protection Against Dogs—A few Galloway cattle in a field with sheep are said to make a good protection against dogs.

Dip Now—It is never too late to dip, although the sooner after shearing the better.

Feed the Lambs—Feed them through the ewes, and then feed them from a well supplied trough.

Scrubs—The condition of a flock is much like that of a garden. If the weeds are left to grow it is all weeds.

Orchard Fruits.

CHERRY CULTURE AND PROFITS

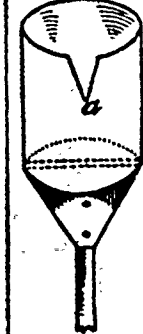
The cherry thrives on either a loamy or sandy soil on high or low lands. This is, especially true of the Morello family. The best varieties I have are Early Richmond, Montmorency and the large English Morello, ripening in the order named.

The cherry needs but little pruning. The heads should be low so as to protect the trunk and lower branches from sun scald. See that the branches do not cross one another.

MOST PROFITABLE APPLES.

From their long experience in commercial orcharding, Messrs Wellhouse, the large Kan apple growers, are making their later plantings in about the following ratio as to varieties, viz: Ben Davis 100, Mo Pippin 50, Jonathan 40, Gano 15, York Imperial 15.

A Fruit Picker, homemade, as portrayed, consists of a tomato can at the end of a pole.



Plant Fruit Trees in the fall, except peaches and possibly cherries. The ground is in better shape than in early spring and the roots have time to callous over and become established before the ground freezes up.

The Nick Olmer Strawberry is one of the great, elegant berries that delight the grower and purchaser. In this section it sold at \$1 per bush last June.

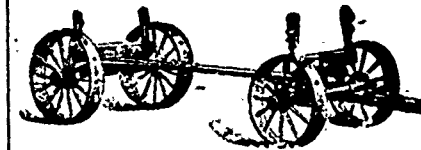
while the market was full of good berries at \$2.50. It should be grown in hills. Fruit is large and showy, of good form and color and better than the average in quality.—[M. Crawford, Summit Co. O.]

To Keep Cider Sweet—In a small way, cider may be kept sweet by pasteurizing it in bottles. The prime condition is to have first-class, clean, bright, filtered cider.

Ohio State Fair entries of live stock included, horses 342, racers 96, cattle 476, sheep 512, swine 419, poultry 1600.

Farm Wagon only \$21.95.

In order to introduce their Low Metal Wagon with Wide Tires, the Empire Manufacturing Company, Quincy, Ill., has placed upon the market a Farmer's Handy Wagon that is only 25 inches high, fitted with 24 and 30 inch wheels with 4 inch tire, and sold for only \$21.95.



This wagon is made of the best material throughout, and really costs but a trifle more than a set of new wheels, and fully guaranteed for one year.

GOOD CIDER.

Clear, Pure, Long Keeping Cider, and more of it from the small amount of apples used, is secured by using A HYDRAULIC CIDER PRESS.

FIRE, WEATHER, and Lightning Proof. Black, painted, or galvanized metal ROOFING and siding; (brick, rock or corrugated) METAL CEILING and SIDE WALLS.

50 BULBS FREE with each yearly subscription at \$6.00. "Success with Flowers," the great Floral Magazine. The collection includes the choicest winter blooming varieties—Crocus, Hyacinth, Narcissus, Freesia, etc.

GINSENG—Book all about it for 6c. Tells how to grow this great money maker. Write to Dr. AMERICAN GINSENG GARDEN, Box 101, S. I.

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A sixteen page journal giving reliable and detailed information about the States of

Virginia, North Carolina, South Carolina, Alabama, Mississippi, Tennessee, Georgia and Kentucky.

Will be sent free of charge to any address upon application to

M. V. RICHARDS, Land and Industrial Agent, Southern Railway, Washington, D.C.



Canadian Farm Affairs.

ABOUT TRY FINISHING FACTORY

The importance and value to farmers of a great central station, where they can send poultry at any season of the year, and where they would get a fair price (which they would know before shipping), has as yet hardly been recognized. There is, beyond a doubt, a great deal of money to be made out of poultry of the right sort, such as Plymouth Rocks and Wyandots and some of their crosses, for the larger birds are certainly the most in demand when sold for food, and more especially so when sent to a great fattening concern. One such firm fattens chickens and puts them in shape for exporting to the British market, where a large bird is in demand. With a large house doing business in this way a raiser of poultry on a small scale would be able to dispose of his stock with the same facility and at as large a price as the man who raises in large quantities.

One firm will not only send one or more crates to those who write for them, but it will pay express charges both on crates going empty as well as when returning full of birds. This includes express charges on weight of the birds themselves, as well as on returning crates. In this way it will be readily seen that the farmer has nothing to do but write for what crates he needs (each crate holds about 30 birds), put birds in crates and send them back. Birds are paid for at the weights when they arrive and check or money order is sent the same day in payment. This is a great boon for farmers and will be the means of causing an unlimited demand for spring broilers at 60 to 70c per pair.

There is one requisite every farmer must consider. Unless birds are strong and healthy they are of little use for exporting. Birds do not need to be fat, but they do need to be large, healthy and strong, and the sooner the farmer realizes the advantages he can obtain by raising the correct kind of birds the sooner he will be able to make a considerable amount of money—in fact, a large amount of money—out of a department of his farm which hitherto been considered of little value to him.—[A. G. Gilbert, Central Experiment Farm.

A NEW INDUSTRY COMING.

The success attending the establishment of beet sugar factories in the states has caused an investigation in several sections of the Dominion as to the feasibility of sugar making this side of the line. Ont and P E I are both striving for the first factory, the effort in Ont being fully described in the last issue of F & H.

P E I farmers are said to be promised a \$500,000 sugar factory by a Watertown (N Y) syndicate, provided they will agree to plant 3000 a to sugar beets. The factory will pay \$4 per ton for beets and 5¢ a bonus of 1c per lb on sugar is voted by the Dominion legislature. This would mean an income to farmers of 300,000, nearly as much as they receive for cheese. In N Y, Neb and Mich the average income per acre is 64 and cost of production 30.

Meetings are now being held in various parts of the province and on Sept 1, over 1000 a beets had been pledged. With pledges of 3000 a, the erection of the factory will be begun, so that the crop of '01 may be manufactured.

ST ANDREWS (N B) TURNIPS.

The culture of turnips is very simple, but requires a good deal of labor. Much of this is in getting and preparing the manure, which is generally done in fall or early spring by making a compost. The ground is prepared for turnips the same as for potatoes, only it requires more cultivation to make the soil finer. After careful preparation by pulverizing finely, it is run out in drills, the manure put in and covered. Seed is sown by a small turnip machine. When plants are 3 or 4 in high they are separated 6 or 8 in apart. The only thing required after thinning is frequent cultivation until the leaves meet across the drills.

The turnip fly is very troublesome some years, the seed sometimes having to be sown three times. Some turnips are sown in May, but the time most of the crop is sown is in late June or early July. May sown are sold

In Sept, those sown later in Oct and Nov.

Nearly all the turnips raised near St Andrews, N B, go to the U S. Boston is the principal market. Some are sent there by farmers, some are sold to agents who come from Boston to buy and ship there, but the greater part are sold to the local merchants, who ship them as they buy, or store to sell in winter or spring. What farmers do not sell in the fall are stored in cellars and sold during winter, according to prices.

It has been said the reason St Andrews turnips are among the best raised is that the soil is suitable for their growth. No doubt the soil in different parts of a country makes a great difference in the quality of any crop, whether it is vegetables or grain. Good turnips have been raised in all parts of the parishes of St Andrews and St Croix. There is a great difference in the soil in various parts of the two parishes. It is largely manure and cultivation, but mostly manure that makes the difference.

New Brunswick's Great Fair—The fair at St John, Sept 10 to 18, the same week as the Nova Scotia provincial at Halifax, has 62,000 visitors, or 2500 more than in '99, but entries by Nova Scotians were not numerous. Very strong were the dairy features, the product of 17 cheese factories competing for premiums and five butter makers competing to see who could make the best butter. The efforts of the government in inducing more general planting of wheat was apparent by a magnificent exhibition of the grain. The hall containing general farm and garden produce was well filled with choice products from all parts of the three provinces.

Will Cranberries Grow on P E I and be a profitable crop? C. R. Dickie of Muddy Creek has a planed of which two are in bearing and expected to yield from 60 to 100 bu, valued at about \$200. He is planning for 50 a of this fruit. As Mr Dickie is a successful farmer and orchardist, he doubtless believes there is a bright future for cranberry production on the island. Any of our readers thinking of trying cranberry planting in an experimental way will find it to their advantage to secure a copy of White's book, Cranberry Culture; it is sold by the Orange Judd company at 52 Lafayette place, New York, at \$1, prepaid.

Prince Edward Island's New Industry—The establishment of the first cheese factory in Prince Edward Island at New Perth, in 1892, marked the dawn of a new dispensation for the farmers of that province. The industry has grown with phenomenal strides and is now the most important business of the province. As a result, farms and buildings are being greatly improved of recent years, and farmers are breathing an air of prosperity never before known. Now that the industry is firmly established dairymen are studying as never before the care, breeding and feeding of stock. The high prices received for cheese of late seasons should act as a stimulus for every dairy farmer to make use of every opportunity to increase the yield of his herd. This can be done by weighing the milk of each cow to find out what she is doing, and by the use of a good Ayrshire or Guernsey bull. The scrub bull must go.

New Brunswick—Crops in the parish of St Andrews and near parishes have been very good this year, better than was expected on account of the dry weather. There is a little shortness in the hay crop, oats very good, barley and buckwheat a fair crop, potatoes will be good in quantity and quality. There has been no rust or rot among potatoes this year. The turnip crop does not look very promising, but if there comes rain with favorable weather they may be good, for turnips grow very fast and will grow until frozen.

Raise More Peas—There is scarcely a farm in U S but grows a small patch of peas, and as a rule they yield well. In the greater part of this province the pea can be grown to advantage. I have been at a loss to understand why our farmers limit the quantity to so small a patch. I have had excellent results

on my own farm, with a mixture of oats, peas and wheat, raising nearly 50 bu per a, and I found the mixture, crushed and mixed with cut hay, an excellent ration for dairy cows. I am urging a more general and extensive growth of the pea for the reason that it is easily grown, valuable as a restorer of the fertility of the soil, as well as a good food for dairy cows and hogs.—[B. M. Chapman.

Especially Noticeable is the great improvement in the quality of dairy cattle exhibited at maritime fairs of the past 2 or 3 yrs. As much may be said of the cows on the farms. It is a high grade of cattle that is pushing the dairy industry to the front. It can never be done with scrubs and grades. The best is none too good.

Ontario as a province captured 263 awards at the Paris exposition, including five grand prizes for education.

A good steer or heifer for western feeding can be obtained by maritime

farmers by using a beef bull on Ayrshire and grade cows.—[Dominion Live Stock Commissioner Hodson.

This year's freight rates on apples are the same as last, 61c to Liverpool and 75c to London and Glasgow.

The losses by the great fire last summer at Hull-Ottawa were \$3,662,000, of which British companies carried insurance of 2,625,816, American 711,695 and Canadian 424,531.

It Gives Us Pleasure to call attention to the ad of the F. W. Mann Co of Milford, Mass, which appears elsewhere in this issue. These people need no introduction to our readers. Thousands are making profitable use of the Mann bone cutter and other poultry specialties. No breeder is living up to his full privileges who does not get and study carefully the very complete catalog which the Mann company gladly send to all who write. Address them at Milford, Mass, and mention Farm and Home.

- ARMYSTRONG & McKEIVY Pittsburgh.
BETHEA-BAUMAN Pittsburgh.
DAVIS-CHAMBERS Pittsburgh.
FARNELTOCK Pittsburgh.
ANCHEB Cincinnati.
ECSTEIN
ATLANTIC
READLEY New York.
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SOUTHERN Chicago.
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COLLIER
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JOHN T. LEWIS & BROS CO Philadelphia.
MORLEY Cleveland.
SALEM Salem, Mass.
COBURN Buffalo.
KENTUCKY Louisville.

EVEN though you want but a pound of White Lead, you do not want to have some cheap mixture of Zinc, Barytes, etc., labeled "White Lead," foisted upon you simply because the dealer makes a greater profit on it. Insist on getting Pure White Lead. It will be pure if the package bears one of the brands named in the margin. You can buy them in one, two, three or five-pound cans.

FREE For colors use National Lead Company's Pure White Lead Tinting Color. Any shade desired is readily obtained. Pamphlet giving full information and showing samples of Colors, also pamphlet entitled "Uncle Sam's Experience With Paints" forwarded upon application.

National Lead Co., 100 William Street, New York.

WANTED — TWO MEN

(Farmers' Sons Preferred) with fair education to work in an office. \$500 per year, steady work, must be over 21 years of age, and able to give \$200 security. Personal interview necessary. Apply by writing, giving full particulars. THE VETERINARY SCIENCE ASSOCIATION, London, Canada.

\$\$\$\$\$\$\$ COUNT
Inferior Salt means a loss in dollars when used in butter or cheese.
Windsor Salt
makes it sweet, keeps it fresh, brings higher prices.
TRUST

SEVEN TOOLS IN ONE.



Send us 25c, and we will send you the Russell thoroughly and being satisfied it is the handiest, simple peeler you ever saw, and if you want it, pay the express agent \$1, and take it. It is a Wire Cutter, Spliner, Staple Puller, Pinch, Tightener, Fillet, Hammer and Wrench, all forged from best tool steel. AGENTS WANTED—They make \$5.00 per day. Write at once for circulars and terms. Blue Drug Fats & Talc Co., Room 8, 237 Broadway, New York.

WANTED CONSIGNMENTS OF Apples for London Markets

Present returns. Give us a trial shipment and the result will be so satisfactory that you will consign us all your apples. AGENTS WANTED. Address DAVENPORT & CO., 206 WASHINGTON STREET, NEW YORK. Representing VERDE FRANQUE & CO., and MAURICE REARDON of London Markets.

CHAMPION Fruit EVAPORATOR
Dries all kinds of Fruits and Vegetables. Product of a superior quality.
Cut shows cooking stove size. We make four larger sizes, suitable for home or market use. All are fire-proof and portable. CATALOGUE FREE.
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ECONOMY HARKINS RIVETER and other fast selling articles. The Riveter can be used in any position. It does anything which a well clinched rivet serves the purpose. For heavy farm work. Can be carried in the pocket. Agents make \$1000 to \$15 a day. Send 20¢ sample to us with postal note or check in Agency. T. B. FOSTER & CO., Fredericton, N.B.

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The Garden.

EVILS OF CELLAR STORAGE.

Says J. J. H. Gregory, the well-known seedsman and vegetable grower: "A cellar may be more valuable than the building which stands on it when the farmer has learned just how to control its temperature and humidity for the best keeping of his vegetables."

Cellars have generally been found to be unhealthy. Vegetables are frequently left over to rot. While rotting, carbonic acid gas is formed. This gas is heavier than common air and settles to the bottom of the cellar. It is very unhealthy and people when entering the cellar are liable to breathe it. If sufficiently pure and breathed alone it would soon cause death. In a section much affected with a malignant fever it was found that in every case where the fever prevailed there was a cellar, while the houses where there were no cellars were generally exempt.

Where cellars are thus used, a covered drain of proper size leading outward from the bottom of the cellar should be constructed. The construction should be such that the drain can be opened and closed at pleasure. By opening occasionally the foul air can be drained off. It is, however, believed that the better plan will be to abandon the cellar altogether. A house of proper size can be constructed with a double floor and double walls from 8 to 12 in apart. Fill between the walls with sawdust or fine earth. Double doors should be constructed, one in either end, say 5x2 1/2 ft. The inner door may be constructed to slide. Houses constructed as above gave entire satisfaction and were free from the deleterious effects of carbonic acid gas.—[Bryan Tyson, Moore Co., N. C.]

WATER CRESS.

One can easily raise enough water cress for home use in this way: Early in spring fill a tub half full with soil, then fill nearly to the top with water. If roots of the cress can be obtained they can be used, planting them by tying a pebble to each plant and sinking it in the water. If plants cannot be procured, seed should be sown in a shallow box of soil, and when the plants are three inches high they can be planted in the tub. Where seedlings are to be used, less water should be placed in the tub at first, the quantity being increased as the plants grow.

It is a difficult matter to set the plants, so a wire screen with wide meshes or one made with twigs can be laid over the tub, pushing the roots down through into the water, the screen holding the tops from falling through. When the soil in the tub causes the water to look muddy, or there are specks floating in it, scatter clean sand thickly in the tub, and as it settles will carry down all floating dirt and prevent the water from being muddy.

The plants grow rapidly, and in a short time can be cut freely. Only the tops should be cut off, so that the stalks can throw out new shoots. The tub should occupy a sunny place and be overflowed with fresh water twice a week, the plants doing much better in fresh water than when it is allowed to stand for days.—[Adelaide Armstrong.]

**For Wintering Cabbage**—A good cool cellar will keep them until April with little or no loss. In putting cabbage in the cellar for use in early spring, I prefer to leave roots and most of the leaves on, set as close together as possible with roots on the ground and heads upward. For pitting out of doors, select a dry place for the pit, dig out a few inches deep, and 2 ft wide, as long as will be required to hold the cabbage. In placing in the pit put heads down setting roots extend upward and close together. Cover with clean straw or other material and then with sufficient earth to prevent freezing. Open the pit at one end when wishing to get at the cabbage and when enough has been taken out for present needs close up the end with straw or other material to prevent freezing.—[W. S. Fultz, Muscatine Co., Ia.]

I would not be without F & H for 25 a year.—[James Hair, Logar Co., Min.]

Fall Work Among Flowers.

WINTER-FLOWERING OXALIS.

No flower is brighter or more cheery than the winter-flowering oxalis, and no plant is simpler or easier to manage. Several varieties, distinct in form, color and foliage, are all desirable, but if I was limited to three sorts I would choose Bowl, for its elegant, robust foliage and its great profusion of large and most brilliant rose-colored flowers. Lutea, for its large clusters of golden yellow flowers, produced in great numbers and continuously for months, and the Grand Duchess, a new species recently introduced from the Pacific coast. If I could have but one it would be the Lutea.

Winter-flowering oxalis may be potted any time during the fall, but the earlier it is done the sooner will flowers be obtained. Any good potting soil suits, and a 6-in pot will accommodate from 3 to 6 bulbs, according to variety: of Bowl and Lutea, 3 bulbs are sufficient. They do not have to be set away in the dark to form roots, as do the hyacinth, narcissus, etc., as they begin growth at once and begin to flower very soon after the first leaves appear, and if not neglected or allowed to suffer for water, and are given a little liquid manure occasionally, they will continue to bloom profusely nearly or quite all winter.

They are especially desirable for growing in hanging pots, baskets or vases, which show off their flowers and habits of growth to the best advantage. A sunny window is best for them, though some of them will do nicely in a north window where so few plants will flourish at all. In spring set pots away in a cool closet and leave unwatered until Aug or Sept, then re-pot in fresh soil for another season of flowering.—[Walter N. Pike, Nassau Co., N. Y.]

**Planting Bulbs in Pots**—Do not press down into the soil, but make a hole and lay the bulb in it, covering with soil. A copious watering will settle it in place, and more can be added if needed. Pressing them hard packs the soil beneath the bulbs, sometimes making it hard for the tender roots to push into. They then raise up, standing on the roots like a stool on legs, and must be pressed down or replanted, either of which hinders growth.—[L. H.]

**Roman Hyacinths** are the only hyacinths that can be had in bloom for the holidays. Formerly there were only white sorts, but several colors can now be obtained, though the white is best for forcing, having more spikes from each bulb. They usually produce from 3 to 11 spikes and I had them in bloom last year on Dec 8. A succession can be kept up by planting at different times.—[Lena Holmes.]

**Potting Soil for Bulbs**—Bulbs will usually give a good account of themselves in almost any kind of soil, but there are some general rules which it is well to follow. Scaly bulbs require sandy soil without manure; hyacinth, daffodil, crocus and narcissus prefer a rich soil with one-fourth sand; freesias do best in leaf mold with a little sand added, and all of them need good drainage.—[M. M.]

**Clean Up the Garden**, do not let winter set in with a lot of frosted stems and stakes where beauty has heretofore prevailed. Remove all stakes, tie in bundles and pack away. If time and means afford, paint them a green color during winter. Pull all stems and stalks, rake up the loose matter and burn. If you find more seeds or bulbs than you wish to plant next year, exchange the surplus with neighbors for seeds of plants you do not have.

**Wintering Bulbs**—After frost kills the leaves of dahlias, cannas, gladioli, etc. dig the plants and cut off the stems 3 to 5 in from the bulbs. Set the bulbs in some dark, fairly dry place and cover with dry sand or similar material. Do not water the bulbs.

**Spanish Iris** can be forced, planting in pots in autumn and keeping in a well-protected cold frame until early spring, when they will often be found budded. Or they can be kept in a cool cellar. Unlike other irises they re-

quire a well-drained soil and only an ordinary supply of water.—[Mrs. H. M. W.]

**Bulbs After Blooming**—As a rule, bulbs which have been forced are of no value and should be thrown away, but hyacinths and daffodils can be

dried off naturally and be planted in the ground, where they will blossom after the first year. Lilies can be forced during the following summer, without repotting. Roman hyacinths and polyantha narcissus are not hardy enough, so should be thrown away.—[Lena Holmes.]

# McKINLEY'S STRONG ENDORSEMENT OF '5 DROPS'

"I have used SWANSON'S 5 DROPS. From my own experience I am fully satisfied as to its valuable qualities. I have used it for Rheumatism and Catarrh of the Head and can conscientiously say it has done me more good than all the other remedies I have had in my life. It quickly banishes those germs which cause so much pain and suffering. Some parties with whom I am acquainted speak of 5-DROPS in the highest terms and claim they would not be without it for a single moment. I don't wish to be without the medicine, either, as I regard it as a preventive as well as a cure. M. N. MCKINLEY, Borden, Ind., June 2, 1908."

**HAD RHEUMATISM AND CATARRH**

**NEARLY 75, BUT 5-DROPS CURED HIM.**

"Gentlemen: I thought I would write you in regard to the benefit I have received from the Swan-son '5-DROPS,' as well as the Pills. I had Rheumatism in my right leg for 50 years, sometimes better, sometimes worse, and finally it moved up into my hip and across my back and I could hardly get about to do anything. The doctor said it was Sciatica in my hip and nothing did me any good, until I used Swan-son's '5-DROPS' and the Pills, and now I can say I am as well as if I was 25 years of age. I am 74 years of age, and can walk ten miles in three hours, without being much fatigued. Swan-son's '5-DROPS' cured me. Now, if you think this worthy of note, send me a copy of the medicine.—M. NEIGHBOUR, Eastwood, Tenn., July 23, 1908.

**SUFFERED INTENSE PAIN.**

"Gentlemen: I enclose money for which please send me one dollar bottle of your Rheumatism cure and one box of Swan-son Pills. I have been a great sufferer with Rheumatism for nearly 20 years. It would come on me and last about six hours at a time and would have me to go to bed with hot sores on my shoulders and suffer intensely until it left me. I have looked for it but found no relief until I used a bottle of your Rheumatism cure and that has done me more good than anything I have ever taken. I am so glad that I have found something at last that helps me. I am very happy to recommend your medicine to all in this little village and I will do all I can around. MRS. MARY BLOOM, Kingville, Cal., June 2, 1908.

**RHEUMATISM AND SCIATICA**

**"MOST WONDERFUL DISCOVERY OF THE AGE."**

"Gentlemen: Will just say for your benefit and to the world of suffering Rheumatism, that I suffered terribly for 20 years, and from Nervous Prostration. I tried other Nervous Tonics with very little relief, and in fact, I began to despair of ever being any better. Fortunately for me Mr. Allen M. Sage recommended I try your 5-Drops highly and told what it had done for him, that I was induced to try it. To my great astonishment, one bottle of '5-DROPS' and one box of Swan-son's Pills did me more good than all other medicines I had ever taken. Therefore I give this testimony to the public, without any hesitation or compulsion whatever. I believe it to be the most wonderful discovery for Nervous and Rheumatic diseases of the present age. June 2, 1908. REV. A. J. MOULT, Ionia, Mich."

**HEALED HOLE IN NECK.**

"I, the undersigned, hereby certify that my wife was entirely cured of Eczema by the use of '5-DROPS,' Swan-son Rheumatic Cure Co., Chicago, Ill., U.S.A. So terrible was the attack that it caused a hole to form in her neck, which is now entirely cured. I have been afflicted by four doctors before the use of '5-DROPS.' GEO. W. WILLIAMS, Ottawa, Ont., Can., June 2, 1908.

**NEURALGIA**

**EWING**

**NEURALSIA**

**ERZEMA**

**NEURALGIC HEADACHES, EARACHE, TOOTHACHE, HEART WEAKNESS, CROUP, SWELLING, LA GRIPPE, MALARIA, PARALYSIS, CREEPING NUMBNESS, ETC.** 5-Drops contains no opiates, and no other injurious ingredients. It's a remedy for children as well as grown persons.

**SWANSON'S 5-DROPS** is sold through agents. In many localities the druggists are our agents. If the remedy is not obtainable in your town order of us direct. Send us 25 cents for a trial bottle (postpaid), or \$1 for large bottle (300 doses); sent prepaid, by express or mail. Agents wanted where we have none. **WRITE AT ONCE!**

**SWANSON RHEUMATIC CURE CO.,** Swanson Bldg., 164 Lake Street, CHICAGO.

## SEND NO MONEY

If you live within 50 miles of Chicago (if further send \$1.00), cut this ad out and send it to us, and we will send you this **800 HEATING STOVE** by freight collect. You can make it at your own risk, and it's your property, absolutely, every day! If you don't want it, we'll refund the money. We'll guarantee it to be the best of its kind. It's the best of its kind. It's the best of its kind. It's the best of its kind. It's the best of its kind.

### OUR \$9.95 ASHES BAK

NEATER saves everything that is worth anything. It saves ashes, cinders, and all the rest of it that is usually thrown away. It's the best of its kind. It's the best of its kind. It's the best of its kind. It's the best of its kind.

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All cases of **DEAFNESS or HARD-HEARING** are now curable by our new method. It's the best of its kind. It's the best of its kind. It's the best of its kind. It's the best of its kind.

**International Aural Clinic, Dept. of Chicago**

## Profits in Poultry

Dual and ornamental breeds and their profitable management. This excellent work contains the latest experience of a successful poultry raiser. It is profusely illustrated and forms a volume and complete course to our poultry raisers. **CHAS. HENSON, Pitts.**

Free descriptive Book coming on application. **ORANGE JUDD CO., 2 Lakeside Pl., New York.**

# WITH WOMANKIND

## NARROW LACE FOR VARIOUS USES.

Make a chain of 13 stitches.  
 1st row—D c on 5th st of ch, 3 d c in 8th st of ch, 1 ch, 3 d c in same place (making shell), 1 d c in 12th st of ch, 1 d e in last st of ch, turn.  
 2d row—Ch 3, d c in 2d d c, 1 ch, d c in middle of sh in last row, ch 2, d c in same place, ch 1, 2 d c on 2 d c.  
 Repeat these rows four times, making six rows. At end of 6th row make 8-ch, catch in end of 4th row, make 8 ch, catch in end of 2d row, make 8 ch, catch in end of foundation ch, turn.  
 Fill 1st loop with s c sts, enough to make it solid, fill 2d loop the same and half of 3d loop, turn.  
 Make 8 ch, catch in center of 2d loop, make 8 ch, catch in center of 1st loop, turn. Fill 1st loop with s c sts, enough to make it solid, fill half of 2d loop, turn.  
 Make 8 ch, catch in middle of 1st loop, turn.  
 Fill loop with s c sts, enough to make solid, finish the half of loop in 2d row



of loops in same way, and half of 1st row of loops the same, repeat from 1st row.  
 This makes a pretty lace for corset covers, children's clothing and baby's slippers, or, if made with only the loops, with chain heading, leaving off insertion, makes very pretty sliken edge for baby's flannel sacque.—[Sarah E. Bowra.

## GERMAN LACE.

This is genuine German lace. It was presented to the writer by a lady tourist who bought the design in Germany. For pillow slips it is inserted between the body and the hem; for a child's or miss's dress, between the skirt and hem; in either case with or without the edge. Crocheted in strips with coarse cotton and sewed or crocheted together, it makes, with the edge, a beautiful tidy.

Make a chain of 69 stitches.  
 1st row—Miss 3 loops, 1 tr in 4th loop, 2 ch, miss 3 sts, 2 trs in next st, 2 ch, 2 trs in next st directly after the tr just made, 5 ch, miss 5 sts, 1 tr in next st, 5 ch, miss 5, 2 trs in next st, 2 ch, 2 trs in next st, 3 ch, miss 3, 1 tr in each of next 9 sts of chain, 3 ch, miss 1 st, 1 tr in next, 3 ch, miss 1, 1 tr in each of next 9 sts. This is the leaf stripe. Now the 2 diamond stripe like first as follows: Three ch, miss 2, 2 tr in next st, 2 ch, 2 trs in next st directly after the 2 trs last made, 5 ch, miss 5, 1 tr in next, 5 ch, miss 5, 2 trs in next, 2 ch, 2 trs in next, 2 ch, miss 3, 1 tr in each of next 2 sts at end of row, turn.

2d row—Three ch, 1 tr, 2d tr of the 2 trs at end of previous row, 2 ch, 2 trs, 2 ch, 2 trs under 2 ch that divides the 4 trs, 3 ch, miss 4, 1 tr in 3d of 5 ch, 1 tr in each of next 2 sts of same 5 ch, tr on tr, 1 tr in each of next 3 sts of next 5 ch (7 trs in all), 3 ch, 4 trs separated by 2 ch under 2 ch that divides the previous 4 trs, 2 ch, miss the 1st tr of group of 3 trs of leaf, 1 tr on each of next 7 trs, 3 ch, 3 trs on the 1 single tr between 2 leaves, 3 ch, miss the 1st tr of next group of 3 trs of 2d leaf, 1 tr on each of next 7 trs, 3 ch, shell under 2 ch that divides the previous sh remembering that a sh consists of 2 trs, 2 ch, 2 trs, and these directions will not be repeated, 3 ch, miss 4 sts, 1 tr in 2d of 5 ch, 1 tr in each of next 2 sts, tr on tr, 1 tr in each of next 2 sts (7 trs in all). The stripes on both sides of the leaves are the same. Three ch, sh in sh, 2 ch, 1 tr on each of 2 trs at end of row, turn.

3d row—Three ch, tr on 2d tr, 2 ch, sh in sh, 1 ch, miss 1, 1 tr in each of next 2, 1 tr on each of 3 trs, 1 ch, miss 1 tr of the group of 7 trs, 1 tr on each of 2 trs, 1 tr in each of next 2 sts of chain. This is the diamond stripe, one ch, sh-in sh, go on with leaf stripe, 3 ch,

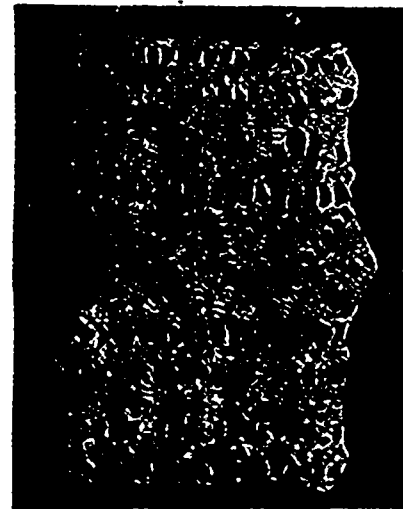


Battenberg Dolly.

Stamped cambric pattern, 11x11 inches, 20, braid, rings and thread 35c extra, of the Pattern Department of Farm and Home.

miss 1 tr of 7 trs, 1 tr on each of next 5 trs, 3 ch, 3 trs on first of the 3 trs between 2 leaves, 3 ch, 3 trs on last tr of same 3 trs that the first 3 trs are on, 3 ch, miss 1 tr, 1 tr on each of 5 trs of the 7 trs, 3 ch, sh in sh, 1 ch, 3 trs, 1 ch, 5 trs, as in the first side stripe, 1 ch, sh in sh, 2 ch, 1 tr on each of 2 trs at end of row, or in first of 3 ch at turn of last made row, 3 ch, turn.

4th row—Tr on 2d tr, 2 ch, sh in sh, 3 ch, miss 2 trs of the group of 10 trs separated by 1 ch of previous row, 1 tr on each of next 7 trs, 3 ch, sh in sh, 3 ch, miss 1 tr of the group of 5 trs of leaf, 1 tr on each of next 3 trs, 3 ch, 5 trs on next 3 trs, working 2 trs on 1st of the 3, and 2 trs on the last tr of the 3 trs, 3 ch, 5 tr on the next 3 trs, working 2 each on the 1st and last of them as before, 3 ch, miss 1 tr of the group of 5 trs, 1 tr on each of next



3 trs, 3 ch, sh in sh, 3 ch, 7 trs over 10 trs as before, 3 ch, sh in sh, 2 ch, 1 tr on tr, 1 tr in 1st of 3 ch at end of row, 3 ch, turn.

5th row—Tr on 2d tr, 2 ch, sh in sh, 5 ch, 1 tr on 4th of the group of 7 trs, 5 ch, sh in sh, 2 ch, 1 tr on 2d of 3 trs, 3 ch, 7 trs on 5 trs, working 2 trs each on the 1st of the 5, and 2 on the last, 3 ch, 7 trs on the next 5 trs of next leaf, working as before (this a ch separates the two leaves), 3 ch, 1 tr on 2d of 7 trs, 3 ch, sh in sh, 5 ch, 1 tr on 4th of 7 trs, 3 ch, sh in sh (the diamond pattern lies between the 2 shs in each row throughout), 2 ch, 1 tr on each of 2 trs at end of row.

The middle stripe, which consists of the leaves, has 3 rows to each repeat of the pattern, while the side stripes have 4 rows to each repeat. The 4 rows of one and the 3 rows of the other are to be repeated in regular rotation, for example, the 5th row is as follows:  
 6th row—Work like 2d row for the

side stripes, and like the 1st row for middle stripe.

7th row—Like 3d row for side stripes and like 2d row for the middle stripe.

8th row—Like 4th row of the side stripes, like 3d row of middle and so on in rotation. The 9th row will be the 5th row for the side stripes and 4th row for middle stripe.

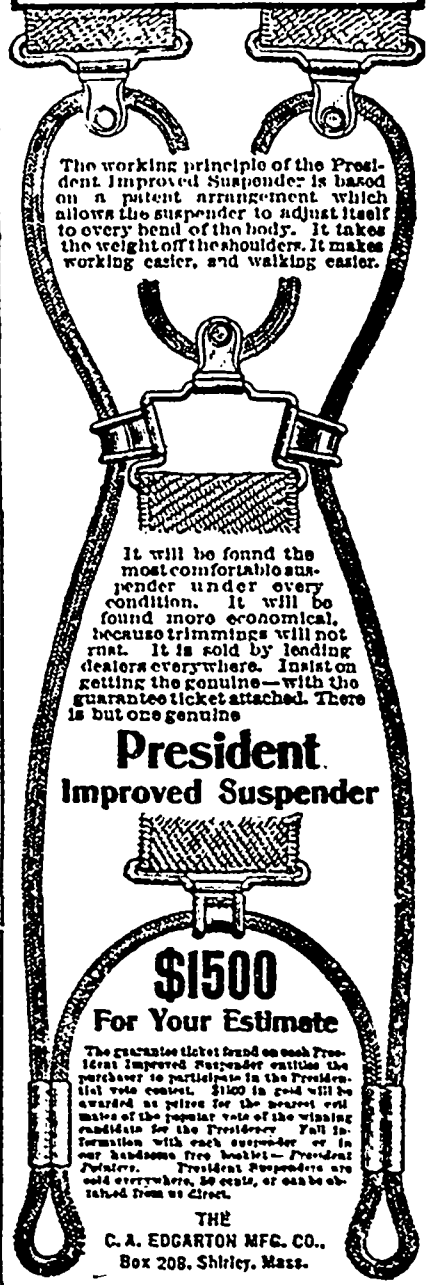
Repeat from 1st row.—[Sarah E. Wilcox.

**Crocheted Slippers**—First make a chain of 5 sts, join, turn, make 1 single stitch into the 1st 2 sts in the 3d st, make 3 single stitches, then 2 single stitches, in the remaining stitches, turn crochet jack, crochet back the same way as the preceding row, by lifting the under stitch, leaving the upper stitch to form the ridge; continue until you have 12 ridges on the right side. Always widen in the center of each row, thus bringing it into a point. This is for the front. Then crochet up one side 15 single stitches, connect back and forward always, forming the ridge, until you have 25 ridges on the right side. Join to the other side of the front and finish by crocheting a chain on the top of the stitches, then a treble, then a stitch into every other stitch. Join and make a scallop in each hole, then make a chain of 4 and crochet into every stitch all around the scallop, forming little scallops around the larger ones. Run ribbon through the holes and tie in front to make a bow. Buy cork soles, bind round with cloth and sew on the slippers.—[A. R. Annable.

**Newspaper Polisher**—After tins have been washed and thoroughly dried, newspaper crumpled until soft and pliable will give a polish that will astonish you if you have never tried it. I have a friend whose tins never receive other scouring than this and I was surprised when I saw how bright they were to learn her very simple and ingenious method of keeping them so. She also told me that spots on her kitchen stove which nothing else would remove had vanished as by magic after the vigorous application of a crumpled newspaper.—[M. R.

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**THE HOME CIRCLE**

**Arabine's Baby.**

Written for Farm and Home by Adalena F. Dyer.

"OH DEAR!" moaned old Mrs Hicks, hiding her face in her apron to conceal her tears. "I don't see why this new trouble should have come upon me. Trouble, trouble, trouble, nothing but trouble! I think it is more than I deserve. You are young, Ruth, and ought to find some way out of it."

"I will, mother," said Ruth, a comely, sweet-faced woman of fifty. "Just leave it all to me and don't fret any more about it, or you will be sick abed."

"Just think all I have been through with," wailed the older woman, wiping her dim eyes and dropping her knitting work despondingly. "First, your father died, then Rebecca and Emily and then Binie and Jason had that awful falling out—and I always did hate family quarrels so. Next, poor Binie died and was buried among strangers and you and me never dared to put on mourning for fear of Jason. Now Binie's husband's dead, and they have sent her baby to us, and Jason won't let us mention Binie's name in his presence, and wouldn't harbor anything that belonged to her any more than he would a black snake. So I s'pose my only living grandchild will have to go to the poorhouse." She buried her face again in her apron and shook with sobs.

Ruth's eyes were full of trouble and doubt, but she kept her voice cheery as she tried to comfort her mother. "Don't worry trouble, look on the bright side," said she, smoothing the thin gray hair soothingly. "Binie's baby ain't gone to the poorhouse, and ain't likely to; but we mustn't be too hard on Jason, if he is rough and harsh. He has had enough to sour anybody. Just remember what a blow it was to Jason when Binie eloped with that Hadley scamp and took all the money with her, for Binie was always Jason's favorite, and when he lost faith in her he seemed to lose faith in everything."

"Binie never would have done it," sobbed her mother. "If it hadn't been for her husband, and what is the use of bringing up all that scandal now? It's been dead and gone these five years."

"I just mentioned it to show that Jason had reason to be put out with Binie," said Ruth mildly. "Binie was thirty-eight years old and ought to have known better."

"Binie was your own sister, and she is dead," said her mother sharply. "If you can't say any good of her, you needn't say anything. She was the prettiest girl I ever had, and pretty girls always have more temptation."

"Binie was the beauty of the family, that's a fact," acknowledged Ruth good humoredly. "I never had either beauty or temptation, and when Jason wrote the whole story to me and asked me to come home and keep house for him, I came, and excepting this old trouble, we have lived happy ever since, as they say in fairy stories."

"I ain't very happy to-day," complained the older woman, "and you couldn't be, if you had any feeling for that poor child that is coming tomorrow. What we shall do with her is more than I can tell," and the tear rolled down her alibere' cheeks.

"I'll tell you what I'll do," said Ruth, seized with a sudden inspiration. "The Staples children often come here to spend weeks at a time and so do the Greene children. I will go to the train and get little Myrtle tomorrow. Let me see, she must be four years old now, and Jason will never ask a question about her. He'll take it for granted she belongs to some of my friends in the city, and Jason isn't stingy about company, whatever other faults he may have."

"You can do that," agreed her mother, brightening up and drying her tears. "It will be a comfort to have Arabine's baby here even for a few days, but the truth will come out sooner or later," she concluded, despondingly.

"I hate to deceive Jason," said Ruth with a sigh. "It seems underhanded and dishonest, but we didn't get word that they had sent the child until to-day, and there is no time to make any

other arrangements now, so I must bring her here until I can do better."

The next morning Ruth told her brother, in the most matter-of-fact manner she could command, that she would like to take the horse to drive down to the city. "Well, the horse is in the barn and here is Jim to harness," said Jason in the loud, brusque voice which was his chief characteristic. "If you want him, why in thunder don't you take him?"

It was 2 o'clock in the afternoon when she returned with a rosy, smiling, fluffily dressed little tot, tucked in beside her, holding the end of the reins in the happy belief she was driving. Jason, with a hoe over his shoulder, was just crossing the road on his way to the field when they drove into the yard.

"Hullo! you did get home at last," he roared. "I've been expecting you these two hours. Got another Staples young one to board for the summer, ain't you? I expect before long you'll turn the whole place into an orphan asylum or little wanderer's home. Come here, Doll!" said he, in a milder voice, to the child. "Come, let the old man take you out."

"All wite," said the child, springing into his outstretched arms, without a moment's hesitation. He set her gently on the ground and examined her critically. "That ain't the Staples young one that was here last summer, Ruth," said he. "Thunder! how black her eyes are. She is the image of Granny Dennison."

"No, she ain't Mamie Staples," said Ruth. "This is a little girl who has lost her father and mother, and I brought her here for a while, and she hurried the child into the house before any more embarrassing questions could be asked."

Once within doors her grandmother kissed her and wept over her with a fervency that frightened and perplexed the little maid. "We must be very careful in our talk before her," warned Ruth with a sigh. "She is just the age to repeat all she hears."

She had been there about a fortnight when Jason returned from the village with a gaudily dressed doll for the child, which he gave her in a shamed-face manner, apologizing to his sister for his folly by saying, "The young one hadn't any, and I'd as lief see a docked horse or a hornless cow as a doll-less girl. Of course it's all blamed nonsense, and so is everything else connected with a woman from the cradle to the grave," and he went out, slamming the door and grumbling loudly about everything in general.

Things went on so smoothly for a time that Ruth almost forgot that some day they must reach a climax. She was reminded of it one afternoon by Jason coming in with a note in his hand, saying in a voice of more power than sweetness: "Here's a billet Bill Stowe handed me as he rode by. It's from Debby Drinkwater, and she wants to spend the day here tomorrow, so I s'pose somebody'll have to drive down for her. Why don't the old nuisance stay at home where she belongs, instead of galavanting round over the country and bothering folks that would be better off without her?"

"She's an own cousin to mother," said Ruth mildly, "and she hasn't been here since I came home from the west."

"Well, if you and mother want her I'm willing; only keep her out of my way," was the ungracious reply, as he left the room.

Ruth sank weakly into the big rocking chair by the window, her face white with apprehension. "Debby Drinkwater of all people," she groaned. "She has just come from New York and knows all about Binie's affairs and little Myrtle being sent here, and no horse can keep pace with her tongue when it gets started. I must drive down to the Corners for her in the morning, and warn her before she meets Jason not to let on who Myrtle is."

As Jason arose from the breakfast table the next morning, Ruth said, as if conferring a favor, "I will drive down to the Corners after I wash the dishes and get Cousin Debby. It is such a pleasant morning." Jason turned in the doorway with the gruff reply, "You can't go this morning, for I've got to stop to the blacksmiths to get Fan shod."

"I'd just as lief stop and get her shod," persisted his sister, with suppressed eagerness. "I can sit in the wagon while it's being done. I often drove our horses to be shod when John was alive."

"Well, you can't take Fan this morning," was the decided reply. "Jackson would cheat a woman out of her eye teeth. He lamed her for a month the last time he shod her, and this time she'll come pretty near being shod as I say," and he closed the door with a bang.

She was nervous, almost hysterical, when she heard the sound of Jason's returning wheels, but she rushed to the door with a forced smile to greet her guest. One look at Jason's face assured her that her secret was still safe. He was helping Cousin Debby from the wagon, with one of the droll remarks for which he was noted, for Jason, although gruff and loud spoken, had a strong sense of humor.

Ruth, feeling like a reprieved prisoner, hurried her cousin into the house and firmly resolved to warn her, at the earliest opportunity not to mention Binie or her child in the presence of Jason. "Jason won't be in until dinner time," she thought, as she took Debby's cape and bonnet and saw her comfortably seated in the easiest rocking chair at the pleasantest window. But she miscalculated, as many another has done, for no sooner had Jason put up the horse than he appeared in the sunny sitting room, bearing little Myrtle on his shoulder.

"How is this for a girl?" he asked sitting her on the sofa beside him. "I think she is worth raising, don't you, hey, Debby?" Cousin Debby looked at the child critically over her glasses. "Yes, she's a nice little girl," she said, beaming upon her good humoredly. "She must be a good deal of company for you all. She don't look a mite like Arabine as I can see," she continued. "She's got the black eyes of her great grandmother Dennison, but she looks for all the world like your sister Emily when she was that age. Did Hadley leave anything to bring her up on? I hear he never was very forehanded."

At the hated Hadley name Jason arose stiffly and left the room, making no reply and looking neither to the right nor left. "He don't seem to like Binie's husband any better than ever," said Cousin Debby with an indulgent laugh, wholly unconscious of the mischief she had done.

"No," said Ruth, "he don't. If you'll excuse me I'll see about dinner and leave mother to entertain you."

Myrtle returned to her mud pies on the back steps, and poor Ruth was trying to keep her dread of the impending storm from spilling her dinner, when Jason entered. "I'm going over to Lawton's to see a cow," he said "and will just eat a little something now and not wait for dinner, for I want to get an early start."

Ruth busied herself with his lunch and tried to read his rugged, immobile face as he sat watching her. But not

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a word or gesture gave her a hint of how he felt about his sudden discovery concerning Myrtle.

She gave a sigh of relief when he drove out of the yard, for she knew he would not return until late in the afternoon. When, at 5 o'clock, her guest announced her intention to spend the night with Almira Skinner, her husband's niece, Ruth sped the parting guest with becoming ceremony. But her company smile changed to a moan of weariness when she found herself once more alone in her cozy kitchen.

Jason soon entered with a beaming smile. "I've bought the best cow that stands in the county," said he, "and Ben Lawton is going to lead her over in the morning. I guess you won't have any more fault to find about the butter. Why, what in thunder ails you? You look as if you had been drawn through a knothole. I thought you would be tickled to death to get a good cow, and you act as if you had lost your last friend. Is anything the matter with mother?" he asked anxiously.

"It ain't mother," said Ruth, in a broken voice. "It is Myrtle. I didn't mean to deceive you Jason, but we didn't know she was coming until she was on her way here, then, what could I do? I couldn't put her in the poor-house. She wasn't to blame, poor little thing, for what her parents did; and I was afraid to tell you who she was, for I knew how you felt about Blinle, and—" but a flood of tears checked further confession.

"Where is the young one?" roared Jason, for he always spoke in tones of thunder when deeply moved. Ruth rose and stepped between him and the door, a flush staining her tear-wet cheeks. "Oh don't Jason don't disturb her," she pleaded. "That poor, innocent baby isn't to blame for anything that has happened."

But Jason brushed her aside with an inscrutable look in his deep-set eyes. Ruth shut the door which led to her mother's room, for the dearest person needed no ear trumpet to hear Jason's conversation when he was excited. Then she sank limply down to await the next act in this domestic tragedy.

Jason soon returned, bearing the child, like a walking stick or umbrella, under his arm, and stood her nosily down among the dishes on the supper table. "There, Dolly," he roared—he always called her Dolly—"stand there and let Aunt Ruth see how smart you are. Tell her all you know, as you did me the first day you came."

"All wite," responded Myrtle, cheerfully. She raised her dress in her little hands and made her aunt a deep courtesy, and repeated in a rapid singsong, "My name is Myrtle Ellenor Hadley, my mamma's name is Arabelle, my papa's name is Gustus. I live in New York. I'm four years old—and I'm Jason's dear girl," she added as an afterthought.

"There," said Jason, "the little fool told me all that the first day she came, just to show off, and do you s'pose I had brains enough to finger out who she was? You women are all alike; never can do anything in honest man fashion, but always want to pull the wool over somebody's eyes. I thought if you wanted to act like an idiot you might. You've had a good time at my expense, ain't you, now? But you ought to have muzzled Deby," and he chuckled and shook with inward mirth.

**Out Flowers by Mail**—Wrap the ends of the stems in wet cotton. Procure a pasteboard box just large enough to hold the flowers when they are packed closely without crushing. Dampen a piece of cotton on one side and place the dry side next the bottom of the box. On this lay the flowers and over and around them place more damp cotton. Put on the cover of the box, tie securely, wrap with strong paper and address plainly on two sides, as one address may become dim from the dampness within.—[Ruth Raymond.]

**Ringworm**—To cure ringworm, proceed as follows: To one part sulphuric acid add 20 parts water. Apply this lotion to the parts night and morning. If the irritation is unpleasant, rub on a little oil but never use soap.—[L. M. Annable.]

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I pay good wages and pay promptly, but never till the money is due. If employed by the month I pay at any time there is money due and needed. The day laborers are paid at the end of each day or week. When workingmen know that they can get their money promptly and without unjust cuts they are willing to work. My help eat at the same table and warm by the same fire as the members of the family.

I have given needy men work that was worth no more to me than the price of their labor, because it helped them and did not impoverish me in the long run. Such men do not forget a kindness and are willing to return good, strong labor when work crowds.

To sum up, pay good wages and promptly. Treat them as you would like to be treated yourself. In return exact prompt and good work and full time.—[Reader.]

### THE GOLDEN RULE.

Hire a bright, intelligent man and pay him the going wages. If you see that he is worth a little more, pay it to him without being asked to. Set a good table, that is, give him plenty of good food, something that he can stand to work on. Tell the man what you want him to do and then leave him alone till he gets it done. Show a man that you have confidence in him and he will try to do your work to suit you.

Do not try to humiliate your man, show him that you think he is made of flesh and blood, the same as yourself. Avoid all arguments with him, especially political arguments. Give him a right to his own views. Have one meal time and make it a point to be ready for meals at the appointed time. Have one time to quit work, and then do not try to work later; to do so is like charging your neighbor a few cents more for a bushel of corn than it is worth.

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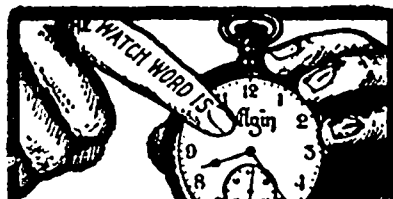
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**Fall Cooking.**

**CAULIFLOWER.**

**Creamed:** Pick off the outer leaves, cut off the stem close to the bottom, wash it well in cold water and let soak for one hour; then tie it in a piece of cheesecloth, stand in a kettle of boiling water, add 1 teaspoon salt and let boil half an hour, keeping well covered. When done, take it up carefully, pour over cream sauce and serve.

**Fritters:** Parboil a cauliflower until tender, put it in cold water, break in pieces, dip each piece in cream sauce, set aside until cold, then dip in egg batter and fry in boiling lard. Garnish with fried parsley.

**Baked:** Boil an uncovered cauliflower until tender, but not until it breaks; then split it down the middle with a sharp knife, lay the cut sides down in a baking dish and pour over and around them a large cupful of drawn butter. Having sifted some fine breadcrumbs on top, set the whole in the oven and let it brown. Serve in the baking dish with vinegar or cut lemon.—[F. O. Sibley.

**Walnut Ketchup—**Use the walnuts when you can run a pin through them. Slightly bruise them and put 100 into a jar with 1 qt vinegar and 1/2 cup salt; let them stand eight days, stirring every day; then drain the liquor from them and boil it with 1/2 oz each of mace, nutmeg, cloves, ginger, whole black pepper, 1 oz grated horse radish, 6 cloves of garlic and one pint of fresh vinegar. Boil about 1/2 hour; strain or not, as preferred, and bottle and seal. —[Eleanor Lucas.

**Pickled Walnuts—**Be careful the walnuts are not woody; they must be gathered young. Prepare a strong brine (4 lbs salt to each gallon water). Into which put 100 walnuts, letting them remain nine days, changing the water every third day. Drain them, put in a porcelain pan and place in the sun until perfectly black, which will be in two or three days. Have ready clean dry jars, in which place the walnuts, but do not quite fill them. Boil sufficient vinegar to cover. To each quart allow 2 oz whole pepper, 1 oz each allspice and ginger, and 2 cloves of garlic. Use the whole spices and bruise them. Pour hot over the walnuts and seal. The walnuts must be well covered with the vinegar. They are fit for use in a month and will keep for two or three years. Most pickle vinegar, when the vegetables are used, may be turned to use, walnut pickle in particular. Boil the vinegar, let stand until perfectly clear, when pour into small bottles and cork. It is excellent for hashes, fish, stews and salads.—[E. M. Lucas.

**Canned Pears—**Ten pounds fruit, peeled, halved and cored, 5 lbs sugar, 1 lemon sliced, 1 teaspoon ground cinnamon, 1 teaspoon grated nutmeg and a piece of ginger root three inches long. Tie the cinnamon and nutmeg loosely in a thin muslin bag. Cook all together till the pears turn pink, then bottle and seal hot.—[Jennie Leonard.

**Mock Cherry Pie—**Take sufficient rhubarb to nearly fill a pie, add 1-2 cup of raisins seeded and cut in bits, a good sprinkling of flour, 1 cup of sugar and a few drops of vanilla. Ripe currants may be used instead of the rhubarb.—[J. M. Cooley.

**Canned Grapes—**Carefully pick from the stems and wash the grapes. Remove the skins, dropping the pulp in one vessel and the skins in another. When all are thus prepared, put the pulp in a preserving kettle over the fire, and stir constantly until the seeds will come out clean. Then press the mass through a colander add the skins to the pulp, weigh them, and to 1 lb grapes allow 1/2 lb sugar. Boil an hour and a half and put in glass jars while hot, and seal. Thirteen pounds of grapes and six and a half pounds of sugar will fill six quart cans.—[Jennie Leonard.

**Pickles for Pin Money—**A small piece of ground near a creek on our farm was devoted to cucumbers one year. The ground was rich and moist and they were very little trouble. The early ones sold at 5c each and we realized quite a sum from them, but it was the pickles later on that brought the most money. They were gathered

every morning, sometimes there would be 2 bu, and sold at 6c per dozen. Many preferred paying 20c per gal, furnishing their own jars, and I put up 100 gals this way: Sorted to a uniform size, rinsed, poured over brine strong enough to float an egg, weighted and covered. Several furnished glass cans and paid extra for pickling them and canning. Our patch netted over \$40, besides having all we could use, and a large barrel for winter. I also gave to my neighbors 8 or 10 bu.—[M. M.

**Rhubarb—**Some people think that spring of the year is the only time to eat rhubarb, but I use it until frost comes in the fall and find it relishes as long as I use it. I never take the skin off, as I think it improves the flavor and looks —[J. M. Cooley.

**Mixed Pickles—**Take equal quantities of cauliflower, small silver skin onions, and small cucumbers, in all 1 pk. Sprinkle 1 cup salt between layers, cover with boiling water and let stand over night. Drain through a colander and wipe dry. To 1/2 gal cider vinegar take 1/2 lb of mustard, 1 tablespoon turmeric, 2 of ginger, 2 1/2 of curry powder, 1 teaspoon cayenne pepper. Mix condiments with a little cold vinegar to remove lumps, stir into 1/2 gal of vinegar which is heating and keep stirring until it comes to a boil. Pour over pickles, stirring once or twice for a day or two, then put up in quart fruit jars. The pickle will fill a little over 10 quart jars and will keep a year.—[E. C.

**Sweet Grape Juice—**To 20 lbs grapes add 3 qts water, crushing the grapes in the water. Place in a porcelain kettle, stir well until it reaches the boiling point, let cook 20 minutes, strain through a cloth. Add 3 lbs white sugar. When the sugar is dissolved strain again through a cloth, heat to the boiling point again, pour into bottles and seal instantly. Better to pour into small bottles, as it will not keep long after being opened. Use new corks; dip the necks with corks in into hot sealing wax.—[Emma Clearwaters.

**Tomato Figs—**Pour boiling water over small tomatoes and remove skins. To 1 lb of tomatoes add 1 lb of sugar and let stand 48 hours. Pour off syrup, which will form heat and skin, pour over tomatoes and let stand 48 hours. Repeat once more, remove tomatoes, roll in sugar and dry. A little sugar sprinkled over while drying improves them. Pack them in small boxes with confectioner's sugar between each layer. These are quite as good as imported figs, indeed, I like them better for many culinary purposes.—[E. M. A.

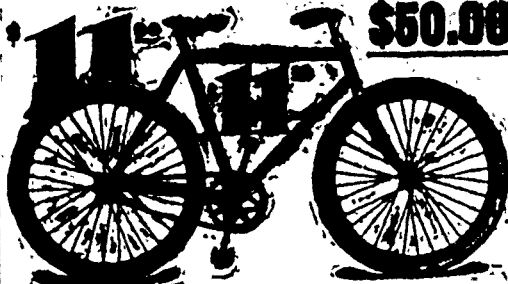
**Spiced Pears—**Cook together until it begins to thicken 2 teaspoons vinegar, 6 teaspoons sugar, and cinnamon, cloves, allspice, etc. to taste (tied loosely in a thin bag), drop in Seckel pears, nicely pared, and cook until clear. Put pears in cans, cover with syrup and seal.—[E. S.

**Pear Marmalade—**Cut very ripe pears from the core, cook in a little water in double boiler until reduced to pulp and pass through a colander. Allow 2/3 lb sugar to 1 lb pulp, cook until it will drop from the spoon in clots, put in pint cans and seal, or fill glassware, and when cold cover with paraffin.—[S. E. W.

**Canned Peaches—**To 1 qt fruit use 1 coffee cup best granulated sugar; put sugar, without peaches, in preserving kettle, with water to thoroughly moisten sugar. Let stand on the back of range until sugar is dissolved, bring forward and let come to a boil. Put in peaches and when you can pierce with a straw they are ready to can. These will be delicious if perfectly sound and thoroughly ripe fruit is used.—[Mrs M. P. Sayers.

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## OPINION

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Mollie May in New York-V.

My Dear Julia: I have just returned from a short shopping tour to New York and am fairly exhausted, for it is rather wearing to chase around town and try on



A FALL GOWN.

all kinds of cloth and velvet gowns this kind of weather. Many of the shops are exhibiting their new importations, giving one a fair idea of the fashions for the coming season. It is to be a "velvet one," for nearly every model is either lavishly trimmed or wholly made of it—and exquisite creations they are, too. Gold braid of an untarnishable quality is generously used on these gowns, deftly combined with laces and ribbons. Of course the velvet gowns are wonderfully smart and rich, but I think a chic little Eton or bolero made of velvet and worn with a cloth skirt matching the jacket in color, is quite as effective and more serviceable. The Eton still holds its popularity, and nearly every fall costume has one, cut up very high in the back, and with long, rounded tabs falling quite a bit below the waist line at the front. These Etons appear in all kinds of material and are elaborately ornamented with braiding, fancy buttons or cloth of gold with lace applique. With these short-backed jackets deep draped belts are worn, fastening at the front or side with fancy buttons or buckles.

In regard to skirts, it is rumored that we are to have gowns of sensible length for street wear and that trains will be seen only on house gowns. Let us hope that this is really true, although as yet no models of this kind have been seen. The front breadths of many gowns are highly decorated and draped, this fashion having met with great favor, especially in designs for evening gowns or reception costumes.

Green seems to be "the" color, and will be worn a great deal, next in favor being the rich, warm shades of brown. Cashmere is again in favor and can be obtained in the most ravishing shades in plain colors and exquisitely embroidered breadths. No other material lends itself so gracefully to the present modes of tucking and draping, and it will be welcome news to many to know that with the return of smooth-faced cloths, cashmere stands in the lead. As for its wearing qualities, it is unsurpassable.

Separate waists are still in great demand, although whole gowns of one material are decidedly better form. Taffeta is no longer used for fancy waists as its stiff qualities make it rather undesirable. All soft silks are used, peau de sole or surah, with much better effect.

I have sketched a fall costume which is being made for me, copied from a recently imported model. It is of soft, pliable black cloth, with revers and collar of white cloth, strapped with narrow black satin bands and highly ornamented with buttons. The skirt has a panel and yoke effect over the hips, fastening at the back under an inverted box pleat. The side seams are pleated, and the joining seams are strapped with stitched bands of cloth. The jacket is quite chic and has rather a military effect, with the strappings on the revers and collar. The draped belt of black satin made for this Eton is very wide, as the coat is cut up into a deep point at the back. A coat cut on these lines will be quite good form for the coming season, as the latest models shown were of that order.

I am told there are hundreds of bewitching model gowns just waiting to be unpacked and exhibited, and you may be sure I shall see them all and write you about them. Fondly yours,

MOLLIE MAY.

VARIOUS SUBJECTS.

Patchwork Opinions—The many opinions of the many writers remind me of a crazy patchwork quilt, no piece being especially attractive until united with many others of various shapes and colors. Some of my favorite books are St Elmo, In His Steps and A Watt. Lillenne Ardell, you are living in my native town, I lived there until the spring of '89. I have lived in Illinois, Iowa, Montana, Alabama, and am now living in the beautiful state of Texas. This part of Texas consists of large, rich, black land valleys, bordered by long, low mountain ranges, or bluffs. As most of the Y A's like flowers, they should see the wild flowers of Texas, many flowers, which are cultivated in the northern states, grow here wild in countless numbers. I will name some of them. Several varieties of cactus, snow on the mountain and bear grass. During the spring and summer months, the valleys here look like one perpetual flower garden. I propose that the Y A's describe the different points of interest where they live. I think questions and discussions about all wells, trees, coal mines and similar subjects would be more interesting than kissing and flirting. Can anyone tell one the use of the towers over all wells?—[Fannie Allen.

Rheumatism—"I observe that in many cases rheumatism disappears when the stomach and digestive organs are put in proper condition," says a regular physician. "Many of the patent medicines relieve the disturbance of the digestive organs and help along the cure of rheumatism in this way. The Christian Scientist gets his mind in such a condition that he is relieved from nervous dyspepsia. This helps nature. The man who takes no medicine at all gets well, demonstrating the fact that some of the other cures attributed to medicines and Christian Science might have occurred without their aid."

Coins—E. D. S., a \$3 gold piece, date 1878, is worth \$3.50 to 5, according to condition.—J. L. K., there is no premium on the Mexican and Spanish dollar you sent. It is very common.—Ira V., the 1853 quarter without arrows off is rare.—C. E. K., the half-dollar you described brings no premium.—W. D. D., the 1821 10-cent piece is valued at 15 or 20c.—E. T. B., a half-cent of 1804 is worth 5 or 10c, 3-cent 1863 paper currency 25c, and the Swedish silver coin of 1780 described 20 to 30c.—Miss G. R., are the copper cents you mentioned U S money?—A Reader's 3-cent silver piece is common. You may be able to obtain an old coin book from the New York Stamp and Coin Co., 85 Broadway, New York.—Mrs R. B., your copper coin of 1787 is a N J cent, worth from 15c up, according to condition.

Relationship—"If B married M's daughter and M married B's daughter, what relation would their children be?" is the knotty question asked by A, and H. If B married M's daughter, he would have two sets of children, his daughter and the children of his union with M's daughter. The children of the latter marriage would therefore be half-brothers and sisters of B's first daughter, then if this daughter and M should rear a family, the children naturally would be nieces and nephews of the above-mentioned half-brothers and sisters. This is a sort of cross-relationship, for if you start with M, the progeny of his daughter and B will be nephews and nieces of the children of M and B's daughter.

The Woman with the experience of many years has found life to be a very different thing from what it seemed in her girlhood, and early womanhood. And, though many pleasant memories may cluster around those early days, she has little desire to go back to the immature years, for she now lives in a world so much larger than formerly. There is still so much to enjoy. She is not old, if no longer young. She has reached the prime of her life, when all her powers are, or should be, at their very best. If marriage has come to her, she realizes what a grand thing it is to be a real home maker, to help upward and onward the young lives that may be growing up around her. And in no more pleasant way can she live over again the days of her own youth than in taking a deep interest in the work and play of her children,

directing and shielding them as none but a wise mother can do. If home making and its cares have not come to her, she has no cause for grieving. Her life may still be a very full one, so many avenues are open to women at the present day. The limits and restrictions that once hampered the single woman have no longer to be combated. She is free to carry out her own plans and to take her place with the world's workers, happy in the knowledge that she is not a superfluous being, but that she can be of use to others, and that the world has need of her [Alice Brown Cutler.

The Dead Line—Undoubtedly there is a dead line. Some men have already passed it at 30; others never reach it till they follow a clergyman feet first out of church. For the professional man whose study lamp still burns, 50 is but a milestone on the road to greater power. And for him there is always something to be won and a new way to win it if the old one will not do. At 70 he is learning and planning and executing. He is climbing trees, like Gen Wheeler, to see what the enemy is up to; or drumming up wheat, like Mr Armour, to freeze out the other youngster; or planning a great home rule program like that lively octogenarian, the late Mr Gladstone. The ability to see new conditions and to meet them is the secret of youth's power in the world to-day. And so long as a man has that ability, the years count for nothing. You can draw a dead line behind him, but you can't catch and push him over it.—[Saturday Evening Pos.

The Crow—He is lazy, and that is human; he is cunning, and that is human. He thinks his own color the best, and loves to hear his own voice, which are eminent traits of humanity. He will never work when he can get another to work for him—a genuine human trait. He eats whatever he can get his claws upon, and is less mischievous with a belly full than when hungry, and that is like man. Take off their wings, and put them in breeches, and crows would make fair average men. Give men wings, and reduce their smartness a little, and many of them would be almost good enough to be crows.—[Henry Ward Beecher.

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Young America.

FROM OUR YOUNG AMERICANS.

A Big Farm—I think as Bluebird about a boy handling a team. Our farm is quite a large one for two to take care of, 268 acres, 18 cows, four horses, etc. I took second prize in the boys' class at a plowing match last fall, No 8 plow. I would like to know Bluebird, for she is the kind of a girl I like, not like some I know that would sneer if you asked them to hold your team while you got a drink of water.—[Farmer Jack (Seventeen), Canada.

Lots of Work—We have two acres of pickles this year. We pick them every other day, and it takes lots of work to do it. But we have a large family to work. There are 12—10 children (six girls and four boys), and my mother and father and grandmother. She is 75 years old and takes care of the baby most of the time, so we all can work. We have 250 chickens, five horses, six cows, four geese and 25 pigs. My brother Charley has 15 doves, three dogs and five cats. I am 13 years old. If I see this letter is printed I will write again. [Water Melon.

THE SPANISH WAR.

Our war with Spain. Was started in 1898. And in fighting with the Spaniards We kept right up to date.

The crafty Spaniards thought they'd win By treachery and stealth. But they soon found when Dewey came 'Twas most too hot for health.

They blew up our best battleship. Killing hundreds of our men. But Dewey gave them such a flogging They'll not try that game again.

Alone with Father—I am a farmer's daughter, living on a ranch of 450 acres in southern California. (I fear I am rather large to be called a Young American. I am still in my teens and feel young besides.) I think it is lovely to live in the country. At present I am all alone with father, but I don't get lonesome. We live about 35 miles from a city and that is the county seat, San Diego. It well deserves all the praises it gets for its pretty harbor and the "famous Coronado" lies across the bay. I do not like to live in the city but expect to, intending to attend the state normal this fall.—[Kittie Griffin

Favorite Books—I want to drop a word of sympathy for Albert Miller, although I know not how it seems to lose any brothers or sisters, father or mother. Goldenhair I know what it is to stand on the floor for the benefit of the school, but I don't care about that. I have read Uncle Tom's Cabin and think it nice, but I call the Scottish Chiefs a rather poor treat. I like John Halifax, The Last of the Mohicans, Prince of the House of David and all others in that line. I read all kinds of books and papers. If any of the Young Americans think they want to know what became of the three men that sailed in the tub or the cow that jumped over the moon, just write to—[Mother Goose (Seventeen)

My home is on a bank of a river and it is very pretty here. I like to live in the country. It is so pretty. What nice letters Grace Miller writes. Write often, Miss Grace. I do not know who is my favorite author. I have so many. I do not like Thackeray and Cooper at all. My favorite poets are Longfellow, Riley and Whittier. I don't want to be a poet. I would rather be a prose writer. Winfred Moody. I hope you will be able to get the education you desire. I think it is about the grandest thing to have a good education.—[Ariadne.

The last day or two of school here (that is, in the public schools) is field day and the boys engage in almost every kind of athletic sport and the best racer or jumper or whatever it might be gets the first premium. The girls look on. Sometimes we get so excited we almost wish we could join in with them. My favorite poet is Longfellow.—[Corra, General Delivers Day-Inn, O.

Books seem to be all the talk nowadays. I like Little Women best of any

that I have ever read. I have read Quo Vadis about half way through but don't like it very well. Nobody's Darling, I am sorry for you, you surely must have a very lonely time. Mabel More, do you know there is a song about you? I have one entitled Sweet Mabel More. Flighty Fifteen, I suppose you will have all the oranges you can eat when you get to California. Ho! I wish I could be there, too! But what is the use to wish for something you can't get? Are any girls or boys anywhere in the U S bearing the name of Maxwell? My father has or rather had relatives in the east and has not heard from them for years.—[Maude Maxwell (Fourteen), Woodland, Wash.

I am 5 ft 3 in and weigh 99 lbs. How many of the Y A's like to play croquet? I would like to have a camera. I have one sister and two brothers. My favorite author is Mary J. Holmes. I think Lena Rivers the best I have read.—[Elizabeth Browning (Thirteen), Robinson, Ky.

Here comes a Michigan gal who lives on a farm. I am 5 ft 3 in, have brown hair and dark eyes. I am in the eighth grade at school. The study I like best is grammar. My favorite author is Louisa M. Alcott. I just read a book called An Old-Fashioned Girl. It was fine.—[Bertha A. Spaulding, Pewamo, Mich.

I live in the land of big red apples and strawberries and among the beautiful scenery of the Ozark mountains. I live near the largest strawberry patch in the world, 310 acres in one field; this is at Fayetteville. I am a subscriber to the dear old F & H and am always ready to read the letters. I enjoy reading very much. My favorite is the Story of Cuba.—[Lilmer Jim, Arkansas.

Albert Miller, I am left-handed, too, but write with my right hand. Well, here is another girl that if she had books piled before her to read, a person would not know she was around. Estelle, so you are not the only one, are you? I am auntie seven times, so I will choose for my pen name.—[Little Auntie (Sixteen), Michigan.

A Farmer Boy's Lay—Let it be understood that I have not been inspired to write this poem by what farm life is but by what it should be. If farm life was what it should be, this would be the lay of every farmer boy. Then Roy Morris, boys would have no desire to leave the farm.

The life I live the life I love, An attribute to that above, Where angels' voices sweetly sing 'Gloria Patri' to the heavenly king. I live secluded from all harm Upon this loveliest spot, the farm; And could I here forever reside, I'd ask for nothing else beside. But in this sacred place abide And be in some aspiring way Better to-morrow than to-day [Vernon Lamar Mangun (16), Iowa.

Actress (?)—Miss D. M. Scott, you were so frank in saying you wanted to correspond with me that I think I shall send you my address simply to learn why you wished to do so. I propose that we of the "mandolin club" form a circle and call it the Success Circle. Katy Did, you did not help me in the least in the way you mention, for it is something I've practiced my life-time. I was thinking of the many who have yet to learn the lesson. As to whether I am really an actress or not it couldn't possibly interest you in the least.—[Coddie's Sister.

Hobbies—Young Canada, I, too, like to recite very much. Do you prefer comic or dramatic? Werner's Readings and Recitations No 20 is a very good book of humorous recitations. Goldenhair, I am interested in botany and history. Are any of the Y A's interested in photography? If so, please write about your experiences.—[Young Oregon.

I am a country girl of 14 summers. My chief amusements are reading, music and reciting. Do any of you know where I could get the piece entitled Her and Her Annuity?—[Cassy MacKay, Rock Creek, Minn.

Raises Ducks—I am a farmer boy of 12 and cannot put words together as I would like to, for a great paper like yours. I live on the Ozark mountains three-fourths of a mile from Greenfield, the county seat of Dade Co. My father owns a farm of 37 acres, 25 of which

are in nice woods, pasture, with fine spring water always running through. Oh such a nice place for boys to go swimming and swing. I am now raising ducks. I think it will be fun to see them swim. My father runs a dairy and I get up at 4 to help milk. He takes the milk of mornings and I deliver it of evenings. We have plenty of fruit, plenty to eat and wear and lots of locks, which I am getting tired of picking, but father says it helps digestion. I am left-handed.—[Otto Wilson, Missouri.

Start the Ball—I live in central Michigan. It is a very pretty country here. The nearest village is Maple Rapids, 3 1/2 miles. I go to school every day when there is any. My father has just got through harvesting. Working about plowing so much is all very silly. I think we might better write about where we live and such things that are interesting. My father raises wheat, oats and corn, besides horses, cows, sheep and hogs. I have three brothers and one sister named Lewis, Clayton, Mabel and Wade. I belong to an I A H circle, which I think is very nice. I think its founder is David C. Cook. If anyone wants particulars, address—[Ethel Rice, R F D 1, St Johns, Mich.

More Than Satisfied—I received rifle No 8 and it is a real nice one; they cost \$4.50 here and the paper and rifle cost only \$3, express and all. I am more than satisfied. I will send in some more subscribers soon.—[Ernest Averitt.



A Country Lass,

Health in her beaming eyes, health in her glowing cheek, health in her merry laugh. Yet country air and country hours can't save her from the common experience of women—an experience which dulls the eye, pales the cheek, and turns the laugh to a sigh. Womanly ills come to almost all. But for these ills there is help and healing in Dr. Pierce's Favorite Prescription. It regulates the periods, stops unhealthy drains, cures inflammation, ulceration and female weakness. It makes weak women strong, sick women well.

"Miss Ella Sapp, of Jamestown, Guilford Co., N. C., writes: 'I had suffered three years or more at monthly periods. It seemed as though I would die with pain in my back and stomach. I could not stand without fainting; had given up all hope of ever being cured, when one of my friends insisted upon my trying Dr. Pierce's Favorite Prescription. With but little faith I tried it, and before I had taken half a bottle I felt better—had better appetite and slept better. Now I am happy to say I am entirely cured, and all done in two months' time, when all other medicines had failed to do any good' at all."

Biliousness is cured by the use of Dr. Pierce's Pleasant Pellets.

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MACBETH'S "pearl top" and "pearl glass" lamp-chimneys do not break from heat, not one in a hundred.

They are made of tough clear glass, clear as crystal.

They fit the lamps they are made for. Shape controls the draft. Draft contributes to proper combustion; that makes light; they improve the light of a lamp.

Our "Index" describes all lamps and their proper chimneys. With it, you can always order the right size and shape of chimney for any lamp. We mail it FREE to any one who writes for it.

Address MACARTH, Pittsburgh, Pa.

\$18 to \$35 WEEKLY MEN and WOMEN advertisement with an illustration of a person and text describing a business opportunity.

\$83.33 Monthly Salary advertisement with text describing a business opportunity.

\$12 A WEEK advertisement with text describing a business opportunity.

\$2500 Watch advertisement with an illustration of a watch and text describing a business opportunity.

Profit By This Offer advertisement with an illustration of a watch and text describing a business opportunity.

SALARY A YEAR SURE advertisement with text describing a business opportunity.

\$3 a Day Sure advertisement with text describing a business opportunity.



WORTH THE WHILE

It is easy enough to be pleasant While life flows by like a song. But the man worth while is the one who will smile.

It is easy enough to be prudent When nothing tempts you to stray. When without or within no voice of sin is luring your soul away.

By the cynic, the sad, the fallen, Who had no strength for the strife. The world's highway is cumbered to-day; They make up the items of life.

AMONG OURSELVES.

Both Equal—It seems to me that some of the ferocious jabs, nonsensical and hair-brained arguments made against others who happen to be of the opposite sex is anything but what the columns allowed the writers are intended for.

Pretended to Love—I have actually known city girls that did not know how to make a cup of coffee. Now will some one explain to me of what use would such a girl be to a poor cuss with only a few thousand.

Not Recognized—The old home was left heavily mortgaged. Father was a hard drinker, died when I was 10; mother was an invalid. Sister was also, but laid medicine aside, took to farm work, worked out of doors, regained health and to-day has a pleasant home of her own.

these girls' company lots, can play a tune on the cook stove and on the organ, has gone to school and taught one term in the country and has lots of friends. I have the first time to hear her find fault or speak ill of anyone.

Who Can Blame Him?—Having been an interested reader of the letters of the councillors for some time, I have decided to join the council myself if the councillors will admit me to their favored circle, and I think they will.

Inquiring Friends—I have a handsome inlaid table, also a handsome Bible to lay on it. Will some of the readers tell me the proper covering? Or rather, I think the wood too pretty to cover up, still I don't like to put the Bible on the bare table, and will someone tell me what to do?

Love Not Wanted—I sympathize deeply in Incog's affliction and commend his determined way of forgetting his love. In the words of Mr Tom-bry in Mr Meeson's Will, "It is a pity that so much good love should be lost, and some author ought to write a novel telling why so much love is placed where it is not wanted."

week and this is all they have to live on. Had they waited one or two years they would have had enough to start on and would now have been getting along well in the world.

City Girls—Allow me to tell you, Farmer's Daughter, that the city girls are just as sweet, smart and nice as country girls. I never knew any but what could keep house fine, and they have brains enough to learn what is to be learned about housework on a farm.

Wonder how many of our young ladies who are capable of making their own living, but, being needed at home, are staying with their parents? Why is it that no matter how well behaved, how intelligent, how lady-like a young lady may be, if she doesn't enter some college as soon as she finishes the home school, her companions snub and shun her as a pestilence?

I believe that some of the letters are simply too ridiculous to be seen in print. There is certainly enough better material to work on. We live on a 160-acre farm in Nebraska and have generally been blessed with good crops, this year especially.

EYESIGHT RESTORED

Failing Eyesight, Cataracts or Blindness Cured without the use of the knife.

Dr. W. O. Coffee, the noted eye specialist of Des Moines, Iowa, has perfected a mild treatment by which anyone suffering from failing eyesight, cataracts, blindness or any disease of the eyes can cure themselves at home.



W. O. COFFEE, M. D. writes: "If you are afflicted with any eye trouble, write to Dr. Coffee and tell him all about it. He will then tell you just what he can do. He will also send you Free of charge his 80 page book, 'The New System of Treating Diseases of the Eye.'"

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FARMERS Can Become Surveyors, Business Men, Architects, Civil, Steam, Mechanical or Electrical Engineers. Write for our Farmers' Circular, telling of farmers who have successfully changed their occupation without loss of time or money.

BICYCLES FREE Ladies' or Gent's. Don't pay a cent for a Ladies' or Gent's high grade safety bicycle. We are giving them away absolutely free to quickly introduce our Remedies. They are made of fine steel, extra quality rubber tires and patent handle bars.

FREE! We give every girl or woman one of our rolled gold filled solitaire Puritan rose diamond rings, solid gold pattern, for disposing of 30 packages of Garfield Peppin Gum among friends at 5 cents a package; simply send name; we mail gum; when sold send money and we mail ring, which few can tell from a genuine \$75 diamond ring. Gum back if you can't sell. GARFIELD GUM CO., Dept. 77, Madison, Pa.

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ASTHMA CURED WITH DR. TAFT'S ASTHMALENE. Send for Free Trial Bottle and Testimonials. Dr. Taft Bros. Medicine Co., 79 E. 19th St., N. Y. City.

Pain you to walk? Corns? Remove them with A-CORN SALVE. Trial box for nothing. Giant Chemical Co., Philadelphia.

PILES If you are troubled with piles in any form write for a FREE sample box of Infallible Pile Tablets, and you will bless the day that you read this. INFALLIBLE TABLET CO., Marshall, Michigan.

WATCHES, Jewelry, Spectacles and Novelties at lowest wholesale prices. H. C. WEBB & Co. 12 Dearborn St., Chicago, Ill.



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The New Styles Only Ten Cents Each.

By special arrangement with one of the most reliable pattern houses in the country, Farm and Home is enabled to offer its readers these patterns, which usually sell at 25c to 35c each, at 10c.

Order by number, which in each instance accompanies description. Give bust measure for ladies' upper garments; give waist measure for skirts; give both age and breast measure for misses and children.

Patterns should be ordered of the Office of this Publication.

Full directions, quantity of material required and illustration of garment with each pattern.



6051-LADIES' JACKET WITH LOOSE FRONT. 31, 33, 35 and 37-inch bust. Diagonal, broad or ladies' cloth, covert, cheviot or any medium weight cloaking appropriate, with machine stitching on collar, cuffs and other edges.



6053-CHILD'S DRESS WITH YOKE—nos. 1, 2 and 3 for 12, 18 and 24-inch waists. Fine and gray cheviot. Double faced, cutting serge, covert, henrietta appropriate, with machine stitching on collar, cuffs and applique.



6057-MISSES' NORFOLK WAIST. 10, 11 and 12 years. Fine and gray cheviot. Double faced, cutting serge, covert, henrietta appropriate, with machine stitching on collar, cuffs and velvet.



6060-LADIES' HANDKERCHIEF SKIRT. 19, 20 and 21 years. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist.



6058-GIRLS' DRESS WITH YOKE. 6, 8, 10, 12 and 14 years. Light brown louisiana, with figured silk and brown velvet. Covert, venetian, drap d'ete, henrietta and whipcord, with lace, velvet, tulle, silk, ribbon and narrow braid for trimming, suitable.



6074-LADIES' TAILOR-MADE BASQUE. 31, 33, 35, 37, 39 and 41 inch bust. Rich red broadcloth, with fancy black braid. Ladies' cloth, covert, venetian, cheviot, diagonal or whipcord appropriate. Plastron rolling collar, also came on shoulders, may be of tulle.



6075-LADIES' FANCY WAIST. 31, 33, 35 and 37-inch bust. Attractive waists in this mode may be developed in venetian, landsdowne, poplin covert diagonal or broadcloth, with silk, applique, crepe de chine, chiffon, gauze or velvet for trimming.



6083-GIRLS' DRESS. 4, 6, 8 and 10 years. Dimity, lawn, swiss or percale are suitable for this mode, with lace embroidery or cotton braid for trimmure. Lovely little frocks may also be developed in India silk, taffeta, faille, all-toss or crepe de chine and decorated with ribbon lace or fancy edging. Guitapes of flannel, turkey, lawn, org., etc. or muslin may also be worn.



6081-LADIES' CLOSE-FITTING JACKET. 31, 33, 35, 37 and 39-inch bust. Broadcloth, with velvet collar. Ladies' cloth, unfinished worsted, covert, venetian, or cheviot suitable, with machine stitching.



6079-LADIES' SHIRT WAIST WITH TUCKS IN BACK. 31, 33, 35, 37 and 39-inch bust. Shell pink French flannel, cashmere, henrietta, serge, landsdowne or taffeta; cuffs and collar silk or velvet if desired.



6089-MISSES' FANCY WAIST. 10, 11 and 12 years. Old rose poplin, black velvet and narrow silk applique. Landsdowne, crepe de chine, voile, foulard, venetian, with lace, velvet, silk, all-over taffeta, applique.



6085-LADIES' NIGHT GOWN. 32, 34, 36, 38, 40 and 42-inch bust. Lovely gowns in this mode may be made of lawn, cambric or silk, and trimmed with embroidery, lace or ribbon, as preferred.



6082-BOYS' KNICKERBOCKERS AND KNEE TROUSERS. 8, 10 and 12 years. Trousers in either style can be made up from all kinds of suiting—diagonal, broad, cheviot, serge or tweed—in plain, mixed, striped or checked varieties, and worn with a coat to match or correspond.



6076-MISSES' FIVE-GORED SKIRT WITH OR WITHOUT CIRCULAR FLOUNCE. Appropriate for foulard, covert, venetian, cheviot, henrietta, landsdowne, broad of ladies' cloth. Linen, duck, lawn, or randle and swiss may also be developed in this mode.



6066-LADIES' TUCKED CAPE WITH YOKE. 31, 33 and 35-inch bust. This garment may be made up in ladies' cloth, corded rep, diagonal or cheviot. The drapery can be of the same material and the yoke of heavy lace or applique for evening wear.



6061-MISSES' SEVEN-GORED SKIRT. 12, 14 and 16 years. Covert, serge, cheviot, broad or ladies' cloth are appropriate fabrics for this mode. The seams may be striped with machine-stitched bands, or all stitching and decoration may be omitted in favor of a plain finish.



6060-LADIES' HANDKERCHIEF SKIRT. 19, 20 and 21 years. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist. Skirt, 22, 24 and 26 inch waist.



Mrs. Mary M. Peabody. Nobody who sees Mrs. Mary M. Peabody, of 42 Water Street, Haverhill, Mass., to-day, will find it easy to believe that she has passed her 63d year and has endured more suffering than ordinarily comes to the lot of woman. How she regained her health and happiness is best told in her own words. She says: "I suffered from female weakness and troubles peculiar to women. I had no strength and no ambition, and didn't care whether I lived or died. I was unable to dress myself. My friends did not think that I would live, and I became afraid that I was going into consumption. "Last July I began taking Dr. Williams' Pink Pills for Pale People. I began to get better at once, my appetite increased wonderfully and I think that I have gained almost 30 pounds since I began taking the pills. I am now enjoying the best of health, eat heartily and sleep soundly—all due to Dr. Williams' Pink Pills. "There are many facts about my case that I do not care to have published, but I will gladly answer any woman who cares to write me about the subject." (Signed) MARY M. PEABODY. Subscribed and sworn to before me this 8th day of September, 1898. THOMAS W. QUINCY, Justice of the Peace. At drugists or direct from Dr. Williams' Medicine Co., Schenectady, N. Y. 50 cents per box, 6 boxes \$2.50.

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Nervous dyspeptics often do not have any pain whatever in the stomach, nor perhaps any of the usual symptoms of stomach weakness. Nervous dyspepsia shows itself not in the stomach so much as in nearly every other organ; in some cases the heart palpitates and is irregular; in others, the kidneys are affected; in others, the bowels are troubled, with loss of flesh and appetite, with the accumulation of gas, sour risings and heartburn.

Mr A. W. Sharper of No 61 Prospect street, Indianapolis, Ind., writes as follows: "A motive of pure gratitude prompts me to write these few lines regarding the new and valuable medicine, Stuart's dyspepsia tablets. I have been a sufferer from nervous dyspepsia for the last four years, have used various patent medicine and other remedies without any favorable result. They sometimes give temporary relief until the effects of the medicine wore off. I attributed this to my sedentary habits, being a bookkeeper, with little physical exercise, but I am glad to state that the tablets have overcome all these obstacles, for I have gained in flesh, sleep better and am better in every way. The above is written not for notoriety, but is based on actual facts." Respectfully yours, A. W. Sharper, 61 Prospect street, Indianapolis, Ind.

It is safe to say that Stuart's dyspepsia tablets will cure any stomach weakness or disease except cancer of the stomach. They cure sour stomach, gas, loss of flesh and appetite, sleeplessness, palpitation, heartburn, constipation and headaches. Send for valuable little book on stomach diseases by addressing Stuart Co., Marshall, Mich. All drugists sell full-sized packages at 50 cents.

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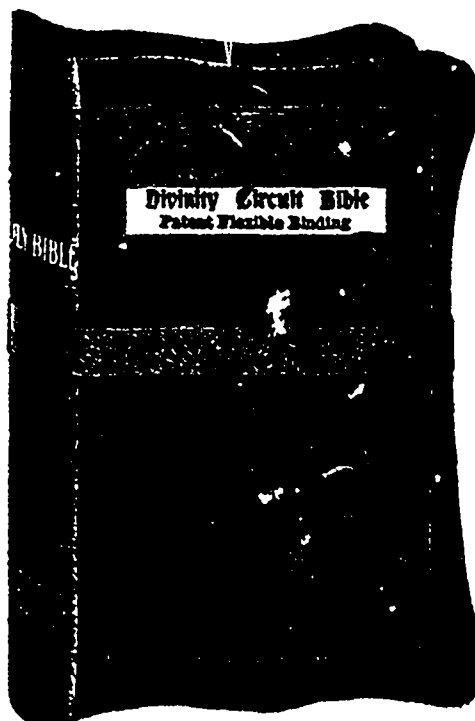
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Around the Globe.

United Labor—A strike of the hard coal miners of the east began Sept 17, about 120,000 miners going out. The miners demanded better pay, a reduction of the manner of weighing and estimating slack and dirt, a reduction in the price of powder which is charged them at \$2.75 a keg and costs the operators about \$1, the abolition of company stores and the recognition of the united mine workers' union. The operators refused all the demands and also to arbitrate the matter in any way. The output of the mines for August and the first half of Sept was much above the normal, in anticipation of a strike, and there is no danger of a scarcity of coal unless the strike should be prolonged for two or three months, but coal dealers have taken advantage of the situation and put up the price of coal from 50c to \$1 per ton.

Growth of Cities—Certain very marked tendencies in the growth of population are coming to light in the returns of our cities at the last census. Two classes of cities are growing with phenomenal rapidity—those of the great lakes and those chiefly devoted to manufacturing. The river towns are growing more slowly. The coast cities south of Norfolk are making little progress. The railroad cities are growing much faster than those which were founded because of supposed river advantages. For the six lake cities the rates of growth are: Chicago 54 per cent, Milwaukee 39, Detroit 38, Toledo 61, Cleveland 46 and Buffalo 37, an average of about 46. The growth of the factory towns, particularly in New England and N. J., has been remarkable.

In South Africa—The war in South Africa is believed to be nearly over, except guerrilla methods be followed hereafter. The British have captured all the railways leading into neutral territory, and have issued a proclamation annexing the Transvaal to England and making the Boer rebels Pres Kruger has gone into Portuguese territory and sailed for Europe.

In China—Germany has injected a new and troublesome factor into the settlement of the Chinese troubles by sending to the powers a circular note stating that it is Germany's view that the delivery of the persons responsible for the outrages is an indispensable preliminary to the opening of peace negotiations. Eng and has demanded the return of the emperor to Peking and Italy wants \$6,000,000 indemnity. The Chinese peace commissioners are Earl Li Hung Chang, Prince Ching and Yung Lu.

Galveston Ruined—A hurricane swept Galveston, Tex, Sept 8 and almost swept the city away. Over 4000 people were killed, 4000 houses destroyed and several millions of property lost. Aid has been asked and given by nearly all cities in the U. S. The work of rebuilding the city is being pushed rapidly.

Loans to Europe—Following the success of England in borrowing several million dollars of N Y capitalists, Germany has placed a war loan of \$20,000,000 in the U S through N Y banks. Sweden is said to be looking this way also for some money. During Aug we exported nearly \$15,000,000 more gold than we imported, although the balance of merchandise trade in our favor was \$11,000,000.

King Corn—The corn kitchen at the Paris exposition has been one of the greatest successes of the American exhibit, and the means of introducing corn as a food to thousands who previously knew nothing about it. French and other European people have taken a great fancy to it.

The Navy and Army—Bronze tablets were presented Sept 18 by the state of N H to the battleships Kearsarge and Alabama. The former was named after one of N H's mountains. The torpedo boat Bagley was launched Sept 25 at Bath, Me. The war dept has decided to commence the home-ward movement of the volunteer troops for the Philippines about the middle of Nov. Natives are to be enlisted as

scouts and soldiers, trials of them in this capacity having been satisfactory.

Arizona wants to be admitted to statehood. Both the republican and democratic platforms declare in favor of it, so congress is likely to give the matter serious consideration at its next session. Arizona was made a territory by the confederate congress and two years later by the congress of the U S.

Small Savings—The increase in deposits in savings banks last year exceeded \$200,000,000, and the number of depositors increased from 5,657,818 to 6,202,779—a gain of 544,961. The total deposits at this time aggregate \$2,430,561,290. The average amount credited to the depositor is \$391.85.

The New Dial has been adopted by Spain of numbering the hours of day from one to 24, beginning at midnight. The hour of midnight will be 24 and the words afternoon and night will be omitted.

Reduce War Taxes—A reduction in war taxes is recommended by Pres McKinley. The gov't had a deficit of \$80,000,000 in '99 and a surplus of \$80,000,000 in 1900. With the country again on a peace basis, except the small troubles in the Philippines and China, the necessity for a revision of the war act is apparent.

Personal William Saunders, a noted horticulturist, died at Washington, D C, Sept 11. He had been connected with the U S dept of agri since its organization in 1862.

James F. Smith, the boy who carried the address and resolutions from Phila schoolboys to Pres Kruger at Pretoria, has returned after having accomplished his mission.

Practical Forestry will be developed for the profit there is in it and along theoretical lines by Prof Fernow of the Cornell school of forestry. The college has control of 30,000 a of woodlands in the Tupper lake section of the Adirondacks, Franklin Co, N Y. A 15 yr contract has been made with a barrel and a wood distillery (alcohol) and local pulp mills will take all soft wood, except the more valuable pine and spruce. The large, hard wood will be sent to the barrel factory, and small, hard wood to the distillery. The two mills have been brought to the forest because of the 5-yr contract. To cover the 30,000 a means that nearly 2000 a must be gone over on an average each year which will necessitate the employment of a large force. It is expected the methods employed will be object lessons in forest preservation and economical management.

Co-operation in Buying—To get supplies on the same basis patrons must do as some Ohio granges are doing, concentrate the needs of every grange in the county into one order. This done all over the state will attract attention in the general markets as cash buyers. The dealer, then, has something worth while to enter into contract for. Then, when a contract is made, all stand by it as one man, instead of hanting with every agent that comes along, thus showing the business world that we as an organization have come to stay and that economy and equal rights is our motto.—(L. L. Holman, Clark Co, O.)

The ascent of Pike's peak in Col. to an altitude of 11,000 ft, has been made by an automobile, for the first time, by John Brislin Walker, a well-known N Y editor.

The coal industry has made great strides in W Va, which state now stands second in output. Twelve years ago there were but two regions in the state which shipped coal, while now there are over 100 big mines that can ship 100 carloads each a day. Seven different kinds of coal are mined.

The proposition to change the date of Memorial day to the last Sunday in May did not meet with favor at the Grand Army encampment.

So substantial and well apportioned are the buildings and grounds of the Ohio state fair, and so general is it patronized by all sections of the state, there is talk of holding the fair of 1901 two weeks instead of one.

The Youth's Companion

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The Youth's Companion, ...Boston, Mass.

Advertisement for a large building or factory, featuring a large illustration of a structure and text describing its features and location.

Advertisement for a \$16.50 Steel Mill, featuring an illustration of the mill and text describing its specifications and price.

Advertisement for Star Drilling Machine, featuring an illustration of the machine and text describing its capabilities and price.

Advertisement for 200 BU. A DAY, featuring an illustration of a person and text describing the product and its benefits.

Advertisement for Saw Mills, featuring text describing various types of saw mills and their features.