Vol XXI No 402

MONTREAL, CHICAGO and SPRINGFIELD MASS MARCH 1 1900 50 Cents a Year

#### Dominion and Provincial Affairs.

#### Gen flutton Recalled.

Major-General Hutton, the imperial officer, who was sent out to Canada a couple of years ago to command the Canadian militia, has just received his quietus. Frequent reference has been made in Farm and Home to the gallant major-general, and to the danger of some of his military schemes. His pet idea was to establish an immense standing army in Canada, for which the farmers would have had to pay the heaviest part

A few days ago it was announced that the major general had been recalled to England and that he was going out to South Africa. The matter was brought up in parliament and from the emlanation made by the premier Sir Willrid Laurier, it transpires that the stal reason why Major-General Hutton is leading the ountry is that he was guilty of indiscretion and insulantian transpired for the state of the st bordination, two cardinal faults in a military officer. He apparently wished to run things to suit himself, without consulting the government or his responsible head, the minister of mill-tia, and he was forcibly reminded that Canada enjoys responsible government and that its servants must obey or-

it is rather remarkable that all the imperial officers who have been sent over to Canada have got into trouble for attempting to run things with a There is now an agitation on foot to change the law so as to allow of a Canadian being appointed to command the military. It is, at least, to be hoped that the next commanding officer will be one who understands the temper of the Canadian people better than his producessors.

#### The Grim Horror of War

has been forcibly brought home to the Canadian people by the news that the first Canadian contingent was enrige I in a desperate encounter with a force of Boers and that 20 of its mem**b**ers were killed and many seriously The casualties amount to Termsled. short 100 or one-tenth of the total stringth of the regiment. The intelli-tion has caused a wave of sorrow from one end of the Dominion to the other, as all portions of the country The represented in the list of the filled. The day, Feb 21, the news the received was a sad one for Canada Ed tlag, were placed at half must on be parliament buildings and on all be public buildings throughout the Dominian.

only consolation that mingled The only consolation that mingled with the national sorrow was that the Canadians had fought like men and Allen hercer, fighting the battles of the empire. The second Canadian configent and Stratheona's horse, the secial contingent raised by Lord tratheona, have sailed for South Africana,

helping to achieve success for the em-It will not be surprising if before the war is over Canada will saddened by the news of further casualties among her brave sons.

#### The Dominion Parliament,

although in session nearly a month, has us yet done very little actual business. The address was adopted after an exceedingly short debate, a great deal of the speeches being devoted to the part Canada is taking in the South African war. The government has submitted resolutions providing for the payment of \$2,000,000 in connection with the equipment and sending of the troops to South Africa. The event has been an expensive one for Canada, but it has already proved a splendid advertisement for the Dominion, as it has drawn the attention of the whole empire to this country.

#### The Socialists' Paradise.

The Canadian postoffice, modeled on the European system, goes far ahead of that of Uncle Sam. While 2 lbs is the limit as to weight of mail packages in the states, our 11-lb parcels post keeps down the ravenous appetite of the express company combina Again, the re at 850 tion on excessive rates. postal savings bank feature at postoffices is a great accommodation. Every money order postoffice is obliged to receive deposits in amount up to \$3000, but not to exceed 1000 in any one year, on which 3 per cent interest is paid. Over \$162,000,000 has been received in these popular banks in 30 years, on which nearly \$15,000,000 interest has been paid. At present there is about \$35,000,000 deposited, with an average credit to each depos itor of 245. The one place in which the Canadian postoffice department is slow is in the establishment of free rural mail delivery. Farmers' clubs and granges should investigate this subject and then demand its gradual introduction.

#### When Doctors Disagree.

That Prof Robertson should see fit to minimize the splendid work Saunders at the Ottawa exper farm in the matter of "varieties of seeds" is regrettable. That the federal government hould maintain a series of costly experimental farms, employing the best talent obtainable to carry on experimental work in the testing of the bes varieties of seed grain suitable to the efferent parts of the Dominion and at the same time to have another man in the r employ, as Prof Robertson, to belittle the work of the farms, and tell the far iers of Canada that all this experimental work of Prof Saunders and his able assistants is of absolutely no reist contingent raised by Lord value, is to say the least inconsistent. Pensive system of cold storage, is quite every branch of agriculture than all ratheons, have sailed for South Afriand when they arrive the Dominion vises farmers to go into their grain Kings and Annapolis, sold 500,000 bars we have taken in that time."

will have nearly 3000 men in the field, I field, and pick the "big heads" and save them for seed. The good professor might just as vall tell the Canadian farmers to go back to the sickle and grain cradle or to the scythe and sneath and throw aside the binder and mower. This is retrogression with a vengeance.

#### The Right Kind of Trust.

The raisin growers of California have raised prices from 1/42e to 5/46e per 16 within three fears, increasing the value of raisin lands by \$50 to \$125 They did it by pooling isabolishing sues, stonning cut prices, middlemen and reaching the trade direct. Now the prune growers are try-ing it. The milk producers of New England and New York are working with considerable success along the same line. The country produce trade generally ought to be reformed in nuch the same way. This would be a trust that we would all profit by. The loss, expense and shrinkage between producer and consumer of farm products is a disgrace that the twentieth century will reform.

#### Hen Fever.

About this time of year look out for new cases of hen fever. The January and February poultry shows have a good deal to do with it. Wealthy men in different parts of the country are said to "have it bad" as a result of some good exhibitions, and the breeding of fancy poultry will be a fad with them for a while. This won't hurt the trade in eggs, fowls and incubators. Hen fever is so very catching that a good poultry show is worth while The great American hen is worthy the attention she is at last receiving

#### The Farmers' Association Meetings

in the eastern procinces have had a phenomenal success. All were well at-tended and the speakers were the best to be had. The stockmen and fruit growers were especially enthusiastic. If any readers of F & H missed taking in some of these meetings, they missed an intellectual treat indeed, and no less can be said as to the social element.

#### A Million Dollar Apple Crop.

The advantages of the maritime provinces as a fruit growing country are manifold. The soil and climate are eminently suited to the growth of ap-ples. No part of Ontario or the United States can compare with the great Cornwallis valley, or even P E I, as an apple growing country. The contiguity of the maritime provinces to the English market is also greatly in their favor, and the fact that the apples can be carried across the ocean in ventilated steamers, rather than by the more ex-

rels of apples this year, which at two dollars a barrel represents a million

#### Improved Transportation Wanted.

At the several farmers' meetings recently held in Prince Edward Island, the Dominion government was sharply brought to book for its neglect to provide improved transportation for product of the Island farms. Girls and tories spoke right out in meeting, and with one voice demanded better shipping facilities and a fulfillment of the promise made by the government leaders in this regard. It is a pleasing augury that farmers at lust are willing to sink their party feelings and de-mand from the political powers their just and equal rights. Too long have farmers been politicians rather than farmers, and as clay in the hands of the political potter. This spirit of inthe political potter. This spirit of in-dependence evinced by the farmer is significant of the times and denotes a forward movement of unlimited possibilities.

#### Flying Chips.

All our readers should have a handy almanae and book of reference. Just such a one can be found in the Canadian Almanac for 1900, which is an acknowledged authority on all matters pertaining to the Dominion. Its 400 pages contain authentic information on many lines of business, educational and general affairs. We mail it post-paid in connection with F & H one year, for 50c.

Now that by government aid the dairy industry has been put on a strong foundation, would it not be the proper thing to extend similar aid to hog rais-By the establishment of central co-operative packing establishments much could be done to alleviate the condition of the swine industry. The cow and chicken are being cared for, why not our friend, the hog?

The Sussex (N B) dairy school opens March 1 for a special home dairy course. The factory course opens March The provincial dep't of agri has secured able and competent instruc-tors. Dairymen should show their interest by attending, as the home course is but for eight days and the factory a

The sentiments of Friend W T Axford of Elgin Co. Ont, touch a tender snot in the Editor's heart. I wonder how many Farm and Home reader: feel as does Mr Axford as to our efforts to make this the best farm paper in Can ada. After years of reading, Mr Axford says: "Your valuable paper, F & H, has been coming to our home regularly for the past 19 yrs and during that time I think that it has brought more valuable information on almost every branch of agriculture than all

# Farm and Home.

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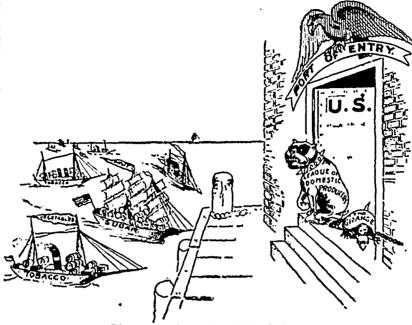
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### ?ooooooooooo All Around the Farm.

#### IMPROVING SEED CORN.

In the animal kingdom the crossing of different strains or breeds is beneficial in that it breaks up the type and causes variation in the individuals. It is then easy by proper selection to establish a strain or possibly a breed that shall be especially adapted to the existing conditions of that part of the country. This is none the less true in country. This is none the less true in the case of plants, especially those of long cultivation, as wheat, corn, oats, etc. The benefits are practically the same as in the case of animals. Variation is set up, the blood is invigorated and the crep resulting from this crossed seed is larger oftentines by a third than the crop from the uncrossed seed. It is with many no longer an experiment, but a well-established method by which new and better varieties are built up. built up.

two rows with seed different om the rest, but maturing about the me time. When the tassels begin to from the rest, but maturing about the same time. When the tassels begin to appear, pull or cut them out before they ripen. Usually three trips through the field will suffice. When the corn is well matured gather "separately and select the best cars for next year's planting. Detasseling is necessary in order to prevent the two rows from fertilizing themselves. In other words, it insures that every car obtained from the said two rows will be a cross between the two kinds of corn. A marked increase in next seasons yield will be noticed, but to note the difference carefully a portion of the field next year should be planted to this crossed corn and the rest to the uncrossedcorn which was grown alongside the crossed corn. In this way any difference in yield can probably be attributed to the crossing it both have had the same cultivation, etc. It will not do to plant an early maturing variety with a late one un-



The Farmer's Faithful Watch Dogs.

less the early one be planted some days later. The two rows could easily be left until the proper time arrived. The two kinds of corn must tassel about the same time if a good result is to follow.—[Prof J. M. Westgate, Kan Exper Sta.

#### TREATMENT OF POTATO SCAB.

The use of corrosive sublimate to kill the germs of potato scab is now conceded to be the most effectual remedy for this increasing menace to the potato industry. The germs live over on the tubers and in the soil. The treatment reaches only those on the tubers and there is no practical remedy for treating those in the soil. It is thought a slightly acid soil is not conductve to their growth, and the use of time and

signity acid soit is not conductive to their growth, and the use of time and ashes which sweeten the soil should be avoided for 1 or 2 yrs before planting. The affected tubers should not be fed to stock unless the germs are killed by cooking, as they will be sown in the manure. Treated seed should be placed in clean crates or may become inoculated after sonking.

Two ounces corrosive sublimate to each 15 gals of water is sufficient, and the seed should be soaked for an hour. The solution is good for use until all is taken up by the stock or becomes dirty. One can soak as many bushels as he has gallons of water. We buy a new tight barrel for 10c and burn it when done treating seed. While it will not injure one's hands, it is a rank poison to stock, and none of it should be feft around. A post and balance pole to raise the bag out of the barrel or the barrel set in the ground will make the to raise the bag out of the barrel or the barrel set in the ground will make the operation much easier. I put a bushel or more into a bran sack and lower it into the barrel, after an hour the bag is raised to the top and allowed to drain. Then the stock is spread out to dry and can be cut for seed while the next batch is soaking. I would not soak much before planting and bury all treated pieces not used.—[C. E. Chapman, Tompkins Co, N Y.

#### BEST CORN FOR SILO PURPOSES.

Large, late maturing sorts. Plant 30 in apart and drill 6 to 10 in apart in the row. The same variety is not the adapted to all sections. The best should produce the largest growth of glazed ears by early Sept. Evergreen sweet is popular in Wyoming Co. N Y-[Subscriber.

scriber.

Large southern corn in drills 12 to 16 in apart and rows 3½ ft. running east and west, as it shades the ground better when large -[William Howes, S.D. I plant large and late ordinary field corn and cut at the usual time of shocking. Have used sorghum cane mixed with corn. Shall try red kaffir corn this year. -[G. P. Jones, Lyon Co, Kan.

Pride of the North corn grows large and makes good ensitage in Allegany Co. N Y.

large yellow dent and ripens here.—
[Norman Hatch, Wis,
Eight to 10 qts Learning drilled in rows 3 to 3½ ft apart will produce stalks with 1 or 2 cars each which should be cut as the ear begins to glaze. 2½ tons of such enslage is worth as much as

cut as the ear begins to glaze. 2½ tons of such enslage is worth as much as 2½ tons of timothy hay and some claim to have pre used it at \$1 p ton - [James Miller & Son, Yates Co. N Y. White Dent Eureka is the heaviest yielder, but Evergreen sweet corn gives better satisfaction.—[J. E. Peirce, Mass. Flint and Evergreen sweet or dent and sweet corn of such varieties as will surery mature ears in this climate are best.—[O. T. Denison, Mason City, Ia. Blount's Prolific, cob and butts both small. Best ears kept for seed. Sow sorghum, 1 bu p a, on well prepared soil same as wheat. In case of drouth it is excellent to mix with corn in sitage, as more juicy when corn is too dry.—[John Irwin, Culpeper Co, Va. For ensilage I prefer Boone County White and Dedgon's Prolific White, a stalk every of to 18 inches in rows 3 to 3½ ft apart.—[T. Hanning, Ill.

#### MANURE FOR GRASS LAND.

I believe in using barnyard manure if possible, when seeding sdown. I should harrow the manure in and the young grass will be enabled to get a portion of it the same autumn and will portion of it the same autumn and will make a vigorous growth and go through the winter in good condition. The first year of growth the grass will need no fertilizer. The second year I would begin to use commercial fertilizers, and would apply 150 lbs nitrate of soda p a. Grass is a crop which is made or unmade between April 15 and June 15. It is a thorough lover of nitrogen. Nitrate of soda furnishes nitrogen in a very available form. Nitrate of soda applied early in spring will give the grass food so that by June 15 we may expect a very much larger growth than if we depended upon stable manure applied the year previous. For the next 2 or 3 yrs, before the land was plowed. I would fertilize as follows Nitrate of soda 150 to 260 lbs, acid phosphate 300 lbs and muriate of potash 150 lbs Such a mixture costs about 37. I am sure the grass crop can be very materially increased and the fertility kept up by the above method. If one has plenty stable manure it may be well to top-dress the grass cach autumn rather than buy the fertilizers.—[Dr J. B. Lindsey. make a vigorous growth and go through

#### SEASONABLE GARDEN WORK.

The farmer who expects to get good work out of his team next spring should take them in from the straw stack a id feed on oars. The farmer him if would not be in shape to follow the plow if he was fed on a diet of p ato skins all winter.—[Frank Hunt, Cat.

To use only mineral fertilizers such as acid phosphate or acid phosphate and potash, on very poor land is almost like throwing money away.

of makes good ensuage in Augusty

Old horseshoes can be used in posts 
Clark's Early Mastodon is a very to slide small pole bars in; it is easier 

Springfield, Mass., or Chloage, III.

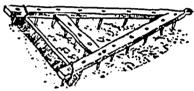
to drive them in than to chop holes. Horseshoes also make good hooks for hitching posts. A wornout ax struck in a block of wood se. er well for an anvil to clinch nails, ri ets, etc.

But few have any idea as to the markets opened by the mining operations in the cold northwest, where no crops can be raised. Fifteen carloads canned fruit were sent there by one Ontario firm last fact.

I like F & H the best of any farm pa-per I ever read; it advocates the farm-er's needs.—[J. J. McDermet, Fulton Co, III.

When Logging Down Hill, select a stump 10 inches in diameter, 2 ft high stump 10 inches in diameter, 2 It high and in line with the road, at top of hill. Hew the bark and make smooth. Take a rope 1 to 1½ inches in diameter and as long as may be required. Fasten one end to the sled, having first taken the precaution to bind the load securely. Have the rope neatly coiled and laid on the upper side of the stump. Let an assistant take the rope in hand and on the upper side of the stump. Let an assistant take the rope in hand and make a couple of turns with it around the stump. When the teamster starts the horses the assistant plays out the rope as may be needed. If the load moves too fast make another turn of rope around the stump. If the team has trouble in drawing, throw off one or more turns.—[C. O. Ormsbee, Washington Co. Vt. ington Co, Vt.

Handy Clod Crusher and Leveler-One who has not tried it would be surprised to find how much execution the device shown in the cut will accomplish



Insert a narrow plank in front of the rear teeth of an A harrow, and the land will be harrowed, the lumps crushed and the surface leveled at one operation. One can also, by stepping on anc off the crosspiece, drag earth from knolls and deposit it in depressions, thus grading the land very nicely.

The Irish Cobbler Potato is extra early and brings a high price. Tubers are creamy white, eyes strong and well-developed and but slightly indented. Each tuber is marked with the small white specks peculiar to the very earliest class, Ohio Junior, Early Market and Six Weeks. It is the only variety I know of earlier than the Early Ohio. [A. G. Aldridge, Ontario Co, N X.

To Make a Smokehouse fire-proof as far as the stove ashes are concerned is not necessarily an expensive job; all that is required is



to lay up a row of brick across one end, also 2 or 3 ft back upon each st back upon each
side, connecting
the sides with a
row across the
building, making
it at least 2 ft
high. As those
who have a
smokehouse use
it nearly every

FIREPROOF SMOKEHOUSE USE IT nearly every year, that part can also be made safe from fire by the little arch uilt at the point shown in the illustration. The whole is laid up in mortar, and to add strength to the structure an iron rod or bar may be placed across the center of the bin and firmly imbedded in the mortar, two or three rows of bricks from the top. or three rows of bricks from the top. Of course the rear of the arch is also bricked up. In most cases less than 250 brick will be all that is required.

#### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* WANTED, AGENTS.

WANTED, AGENTS.

We want at least one good agent at svery a pastomice where we are not at present reput pastomice where we are not at present reput pastomice where we are not at present reput pastomic and solicit authoritylions to FARM AND HOME. This is a rare opportunity for men and women out of employment, and even for enterprising hows and girls who with to enterprising how and the fall and with the wind the profit and even the past of the time and would make it maney vally and quickly, and at once for our new terms to ageints and comission promising list, which we send free on request.

Address

\*\*Bringfield, Mass., or Chicago, Ill.

### The Apiary.

#### SPRING MANAGEMENT.

To get a large force of worker bees in every colony by June 1 is the great desire of most bee-keepers, as it is then that the white clover begins to yield its nectar. The amount of brood that is reared depends considerably on the amount of food the colony has, and nothing is equal to honey given to them in the fail to promote rapid breeding in spring. If last October each colony prepared for outside wintering was supplied with 30 lbs of honey and they have come through it winter quiet and showing little signs of dysentery, they will no doubt have plenty of honey in the spring; if any are short, exchange two or three of their empty combs for full oneskept over in a warm room from last year; if you haven't these, illi some empty combs with warm honey or syrup. To do this, lay the empty combs in a pan or tray, pouring the honey from a dipper through a tin can, the bottom of which has been perforated with small holes.

Aside from food in abundance, warmth is one great thing needed to promote safe, early breeding, with the covers scaled, the winter packing surrounding the hive and the entrance contracted to ½ m at one side, they are in good condition to with tand the changeable weather of spring. Leave the winter packing on till June, and last but not least keep them quiet, don't feed outside or anywhere if possible; it excites them, causing unnecessary loss of vitality, for they can gather nectar and pollen from skunk cabbage, pussy willow, maples and many other trees and shrubs carly enough for their own good.—IT. E. Brainard, Elgin Co, Ont. nothing is equal to honey given to them in the fall to promote rapid breeding

#### GIVE THE BEES WATER

Watering bees is of considerable benefit, and I would as soon think of allowing other stock to roam the country in quest of water as the bees. During winter, the moisture that condenses in the hive furnishes the colony water, but during the early spring these con-densations cease. They begin brood

but during the early spring these condensations cease. They begin brood rearing early, and in order to prepare food for the young larvae, must have water. The most vigorous bees go forth in quest of water, find it at some brock or tank vihere it is fee cold, fill themselves and are chilled, and do not get back to the hive.

Every careful bee-keeper well knows that one bee in early spring is of more value than half a hundred later on. In order to prevent spring dwindling, we take one of the Mason half-gallon fruit jars, remove the screw top, take a %-in beard 4 in square and with a small gouge or knife cut a groove nearly from one extreme corner to the other, taking care not to cut quite to the corner. We fill the jar wh water, place the board over the mouth, invert all quickly and place in convenient places in the uplary. When the sun shines sufficiently so that bees can fly it will also warm the water through the glass, and we are always able to give them what they most desire, pure, warm water, and no one until they have given this a trial will fully realize how much water a single colony will use during the hight of brood-rearing. In order to draw them from the old watering place it may be necessary to slightly sweeten the water for a day or two.—IE. Whitcomb, Saline Co, Neb.

American Fruits at Paris-Much American Fruits at Paris-Much good should result from the exhibit to be made at the exposition of 1900 under the care of the dept of agri. A thorough system is to be employed in making known American fruits to visitors, particularly sucl. varieties as are suitable for the export trade. Cold storage facilities will be afforded for apples, cranges, peaches, grapes, plums, etc.

Russia Buys Harvesters—Exports of these machines are reported very heavy, destined for Russian ports, to take care of next year's crops.

For Potato Planting, the more uniform the cutting of the seed the more perfect the action of the potato planter, the easier the work of the feeder, the better and more uniform the stand and future growth of the plants and the result a better crop.

#### 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.

	Bos-	Now.	Chi- cago	Cincin- nati	N Or- leans	Mem- phia	S Fran- cisco	Mon- treal	Lon- don
l	ton								
Fobruary	19	19	19	10	19	19	19	19	19
Wheat, p bu,	_	.7G3;	.67_	.7314	=		11.00	.GG1,4	.8714
Corn, p bu,	.11	421/4	.3∪ <sup>2</sup> 4	.31	.43	.42	11.00	.46	.80
Onts, p bu,	.33	£102.	2.6	.26	.31	.32	11.15	.31	_
Rye, p bu,	_	.62	.641	.C	-	_	11.00	.61	_
Barley, p bu,	_	.54	.43	_	. =		1 50	.51	
Flour, p bbl,	4.10	4.00	4.00	3.95	4.00	4.80	3.75	4.00	_
Cotton, mid upland, p lb.	.037	.08%			0.5	.081	==		
Cattle, p 100 lbs 1 w,	6.50	6.55	6.35	5 60	4 50	4.00	4.50		113 23
Sheep, p 100 lbs 1 w.	8.25	5.30	8.00	5.25	4.23		5.00	. =	112.25
Hogs, p 100 lbs I w.	8.75	5.55	5-3	5 05	4.25	4.00	5.75	4.75	_
1 Veas calves, p 100 (bs 1 w.	7 00	8.50	7.(4)	7.5	8.00		6 00	_	_
Fowls, p to d w,	.12	.101,	(r)1 g	,0x	11.25	13.59	\$5.00		-
Butter, creamery, p lb.	.26	.25	.24	ئد.	.25	.47	.23	.23	<del>-</del>
Cheese, factory, p lb,	.13	.13	.12	.10	.1312		.15	.12	.1412
Eggs, p dz.	.16	.15	.13	1214	.13	.10	17	.21	-
Apples, p bbl,	3 75	4.00	3.75	3.60	8 (0	4.50	•1.75		_
Hay, p ton,	17.00	17. '0	12.(4)	13 4)	15.00	16.00	10 00	10.50	-
Straw, rye, p ton,	14.00	15.00	8.00	(H)	_		_	4.50	, —
Hops, p ib,	.15	.14				_	.09	.13	16
j Onions, p bu,	.45	.43	.45	(4)	.65		12.25	_	<b>V</b> _
] Cranberites, p bbl,	9.00	2.70	8,00	* ×	==	16.00		=	-
Potatoes, p bu,	.65	,(a)	.(4).	لمئد	.75	.75	11.15	.50	-
Beef, p lb,d w,	.041°	_	-=	-		_	.07	_	.10
Pork, p Ib, d w.	,661	.97	8.75		_		.0(12	.06	-
Lard, p lb,	.0712	.06	.06	0.57	.07	.001	.081	.073	_
Hides, p lb,	.0s	.1114	.oo	.17.1	.0514	.0.11	: -	-	
*P box. Paz. †Pcer	ntal. Fl	Estimat	ed dros	sed welf	glit.				

## Business Side of Farming.

#### LIVE STOCK TRAFFIC GOOD.

No branch of the live stock markets has been more active and strong than sheep, the month of Feb proving highly satisfactory to farmers having butchers stuff to sell. Extra good 'ambs have touched \$7.25 p 100 lbs at Chicago and i 35 at Buffalo, with best wethers and yearlings quotable around 5.7 % 6.50. The trade wants strictly choice mutton and seems willing to pay good prices for same, aithough in some directions it is believed the recent level will not be passed. Farmers are buying stock sheep with considerable freedom. At most of he northern markets hogs have sold at 5c to a shade better, although packets object to paying the price named. The situation, as a whole, has not changed and the undertone of sheep, the month of Feb proving high-

has not changed and the undertone of the market one of confidence in contin-ued fairly good prices, as there is a liberal home and foreign demand for pork product. Fat cattle are selling much as a year \$50, but 50@75c higher than two years ago. A moderate demand exists for feeders, yet farmers naturally consider prices asked relatively high compared with what they may reasonably expect to secure for good heaven when resured to the mar may reasonably expect to secure for good beeves when returned to the markets later in the season.

#### FULL GRAIN ACREAGE.

In the grain growing sections of the country, and this includes pretty nearly every state from Wash to Va, farmers are rapidly completing their plans for the coming campaign. While prices in some instances have not been whilly satisfactory, there is no doubt but the acreage of all staples will be a full one. The wheat market has ruled dull, but values substantially steady and the situation not considered bearish. Should the winter wheat now in the ground show frost damage, spring wheat area will, no doubt, be a liberal one. The lattern has a liberal one of the biggest crop of flax ever raised. The export trade in wheat and flour is liberal, but not especially significant.

The corn crop of '99 is passing out of sight at a rapid rate. Our exports are liberal and gratifying. The government will make special effort this sumevery state from Wash to Va, farmers

mer at Paris to further exploit the merits of this great staple crop, co-operating in this with the American Maize Propaganda. Farmers are feeding corn freely, as piesent prices for live stock offer encouragement to make cattle, hogs and sheep fat and prime. The outs market sheep fat and prime. The outs market has continued dull and steady, rye do, barley quiet but strong.

Binding Twine Next Summer may Binding Twine Next Summer may be higher, providing there is a corner in manila hemp, as now seems possible. The supply of this raw material in the US is almost exhausted, but other fibers may be employed to largely take the place of this. Furthermore, accumulations at Philippine ports may be released and shipped before spring, this relieving the situation relieving the situation.

Broom Corn is attracting much at-Broom Corn is attracting much attention even in sections where it is not commonly grown. This points to an almost certain overproduction, followed by ruinously low prices. The demand at best 's limited and an increared acreage is to be discouraged. In fact, working now sells around \$185 p ion, with fey dwarf 200 down to 190.

Fair Apple Exports-Foreign shipments of apples from US and Canadian some period last year, amounting to about 14 millions bbis this year to date sent to Liverpool, London, Glasgow.

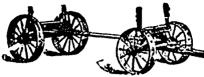
Packing Dressed Poultry during late winter months requires skill. The animal heat must all be out, but freezing is not allowable. With comparatively warm days and sharp nights packers are apt to be caught.

The Federal Census of 1900 is already under way in a preliminary manner. The bureau is sending out special advance inquiries to cranberry growers and persons engaged in floriculture, asking for certain information which should be cheerfully granted in order to make the census the best one ever undertaken. undertaken.

For Dairy Supplies no house is more courteous and reliable for our readers to do business with than the De Laval Separator Co of 74 Cortlandt St. New York. Their new dairy supply catalog for 1900 has just been issued and will be cheerfully sent any of our readers who write for it and mention this paper.

#### Farm Wagon only \$21.95.

In order to introduce their Low Metal Wheels with Vide Tires, the Empire Manufacturing Company, Quincy, Ill., have 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 \$21.33.



is wagon is made of the best material through-and really costs but a trille more than a set of wheels, and fully guaranteed for one year. Cat-ne giving a full description will be mailed upon leation by the Empire Manufacturing Co., any axie.

#### STEEL WHEELS and HANDY WAGONS

of every style and price are made in our mammeth factory and sold direct to farmers. We supply all trucks used by U.S. Govt. Farmer's Handy Wagon Co., Saginaw, Mich.

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fact all our latest improvements in wood saw construction. We
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them andour abcillers, huskers, enailing cand fied der contteers, ahreed canke, etc. Allar

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Vouwill find this cooker by far the most satisfactory in every may. Absorbely full pressure—(to gallon size not stamped "70 gallons"); one-lialf cheaper than any other; simplest lasts for generations; quickest in heating; mest economical of tuel; coal or wood; gaizen, st for gallons. Send for circular. Mary back if not satisfactory.

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\*\*The statis

Direct from HEESEN BROS. & CO., factory to farmer. 3% High St., Tecumseh, Mich.

\$25 per 100 Paid to distribute samples of our lutter Powder. Entirely new idea, just what butter makers have long been looking for. Enclose loe for contract and territory. Butter Improvement Co., Dept 4, Cerosco, Mich.

The Blood at this season craves, and welcomes the purifying and breakfast and scarcely anything durvitalizing properties of Hood's Sarsaparilla. This grand medicine wonderfully cures Scrofula, Salt Rheum, Boils, Pimples and all other complaints caused by impure blood.

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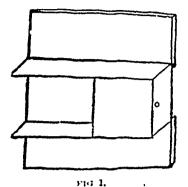
Gentrude Stoddard, Peterson, Ia.

equalled record of perfect cures. SMALL DOSES LARGE RESULTS

age to last but a week or fortnight. Hood's Sarsaparilla has an un-Hood's Sarsaparilla ever Disappoints

### The Poultry Yard. A PRACTICAL BROODER.

An excellent homemade brooder is shown in Figs 1 and 2. It works very well indeed, costs but little and is more easily made than the incubator described in F & II Feb 15. The heater is



like that of the incubator, 4 ft long, 1 ft wide and 6 in high. The top is covered with zine nailed on tightly. The ered with zine nailed on tightly. The sides are kned on the inside with tin. sides are lined on the inside with tin. The front has a sliding door with a little window. The hole for the channey is 1 in from the bottom in the middle of the back. It is for a tin pipe 13, inches in diameter. Boards 1 ft will are nailed onto the top through the zinc. The sliding door is not shown in Fig 1.

Fig 2 shows the top, after strips 2 in wide have been fitted onto each end of the zinc. Strips also 2 in wide extend all around the edge, excepting the small opening at the lower left-hand corner, 115 in wide, to admit air, b is a strip 8 in long nailed on to admit air to the zinc.

Nail on a covering of matched boards over the entire top, thus leaving a space

Nall on a covering of matched boards over the entire top, thus leaving a space which will be 2 in deep over the zinc and 1 in over the boards nalled on the sides of the zinc. A pipe 3 in long, 1½ in diameter, extends through the center. Next make a cover to place over the floor. Make it of matched boards 2 in smaller every way than the floor. The cover is supported and adjusted to the size of the chickens by means of four legs which extend through holes and raise or lower by means of nalls used as pegs. Tack strips of carpet, slitted every 4 in, around the edge of the cover. The cover should be 2½ in above the floor for soung chicks. The heat from the zinc will reach through

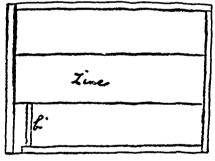


FIG 2.

the floor and radiate from the pipe in sufficient quantities to keep them warm. Use a long chimney of tin to carry away the fumes of the lamp.

A convenient way to locate the broader is to set it in a small warm chicken house and bank up around it nearly level with the floor in which the chickens stay, taking care not to cover up the air-hole, and not to interfere with moving the lamp. Use the same kind of lamps as for the incubator, so degrees is about the right temperature. It should never be much warmer than that. Sprinkle the floor with sand and clean it every day.

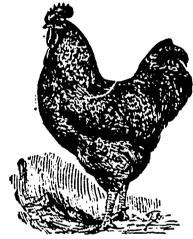
Vigorous Turkeys Fouls are to have crooked breasts from improper breeding. I have found that turkeys breeding. I have found that turkeys raised from the same cock and hens will, after a few years, be linble to such deformities. Also, if there is the least trace of relationship between the cock turkey and the hens, the same trouble is almost sure to occur to a greater or less extent. This matter of changing the cocks cannot be urged too much if strong, healthy young turkeys are ex-

pected. Obtain a cock from a distance, if possible. I find that if he has considerable wild blood in him, his off-spring are stronger for it. I know of nothing to relieve the afflicted ones, but care in breeding will entirely prevent such troubles.—[George M. Tucker.

The Early Sitter—Some hens will soon be set. If this is done now, care must be taken to prevent the hatch being spotled if a cold spotl of weather should appear, which is not at all unlikely. A thorough cleaning of the chicken house and nests is advisable, Then put the sitting hen where she can be kept comfortable, give food, water and exercise regularly, prevent the other fowls from disturbing her, and there is no reason why a good hatch cannot be secured from the early set hen.

An Egg Ration-Give the hens a warm mush in the morning composed wath mash in the morning composed of bran, corn meal and oats with a pinch of salt. Cover the honbouse floor about 6 in deep with chaff, straw or leaves. Scatter the whole grain in this litter, making them scratch for all they get. Feed more oats and wheat, keep them scratching and you will get eggs if you have the right kind of fowls to start with —[Edgar H. Merrill, Me.

The Buff Rocks owe their beautiful color to an infusion of blood from the R I Reds. In general qualities they do not differ from the Barred Rocks. Al-



BUFF PLYMOUTH ROCK.

though one of the new breeds, they already run remarkably true and uni-form and give a large per cent of stand-ard birds. Some growers consider them ard birds. Some growers consider them better layers than the parried variety. They have well developed bodies, yellow skin and legs, are good layers of brown eggs and are good sitters and mothers. No broad of practical general purpose fowls is more of an ornament to the form. to the farm.

Rations-Charcoal, table Spring scraps, milk, buttermilk, apples, potatoes, turing tops, cabbage heads on-ions, peppers, chopped line, are all im-portant at this time of year. Often there are damage I fruits and vegetables in the cellar which ought to be removed anyway and will be appreciated by the occupants of the poultry yard.

To Stop Egg Eating give them china ggs to hammer at to their heart's content Ar the same time keep before them all the crushed eggshells they can cat for several days. Keep ground ovster shells before them to harden their shells—[A A Burr.

Crested Fowls are justly objected to because they are not able to see quickly and are therefore easily caught by verand are therefore easily caught by ver-nin being an especially easy prey to hawks, and if out in cold rains they are almost sure to be troubled with colds and are very liable to have roup. They are undoubtedly pretty, but not very practicable—[Emma Clearwaters 11].

Eggs Well Kept-I am sending a recipe to keep eggs for nine months. I have done so, and the eggs were just like fresh-laid ones. I kept no broader and gathered the eggs as they were laid. I got the grocer to give me a biscuit tin. I put in a layer of waste salt thick enough to keep the eggs from touching the bottom of the can. Jen I greased them all over with fresh butter, of which I had plenty. Theu I put







One reason for this record is absolute uniformity emperature in eng chamber. Correct instruction will be can be intched. Send 6 cents gue. Filled with hen info ultry and brooder houses,

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in another layer of salt. On no account must the eggs touch. I put them in every day and when the can was full I closed it and kept it in the cool basement.—[J. 11. L., Vancouver, Wash.

Handy Egg Carrier-A regular egg case is doubtless best for carrying eggs



to market, but better than carrying them piled up one upon another in a bas-ket is the plan shown in the cut. snown in the cut.

Get a candy pail
at the grocery
store and cut
from old pasteboard a lot of
circles, each one
a triffe smaller
than the one to
go next above it

than the one to go next above it in the pail. Put a layer of bran in the bottom of the pail, lay the eggs thickly over it and fill in between and over them with bran. Lay on a pasteboard circle and proceed as before. The storekeeper will take out each layer of eggs, lift out the circle with the bran on it, empty the bran into a box or pail. Then when the eggs are all out he will pour the bran all back into your pail, putting the circles on top to be used again and again. Packed in this way the eggs will not break, though the horse trots and the roads be rough.

#### THE BUSINESS'HEN.

Let people talk of Bantams, Of Polands, Hamburgs trig, Minorcas and Black Spanish, And Brahmas, Langshi as big; Letethem talk.

But far the finest poultr!
That e'c are latched 'rom eggs
Are those that best develo.) Let them talk.

M. G. Kains. The strongest scratching 128:

Under the Roosts-If absorbents are used, the labor will be lessened. A good way is to sweep with a splint broom, then, if the rubbish is not all removed, use a hoe and then the broom moved, use a hoc and then the brown again. Sprinkle road dust after sweeping, or fine coal ashes. Sawdust can also be used, if dry. The roosts should be examined often, and if nutes are found upon them, saturate with kerosene. If the roosts are movable, as they should be, take them out of the house and pass them through a clowly. Some farmers object to kerosene, thinking it makes the feet tender. Do not perform the work of cleaning and renovating spasmodically, but regularly, at least once a week, if the quarters are at all foul. Fumigation should be used once in a while, taking a damp day.—[Mrs A. C. M., Athens Co. O.

Chicken and Rabbit Queries-M. O.'s cockerel has lost use of his legs. We have been very successful in such cases with camphorated oil, bathing the limbs with it twice a day.—U. R. M. complains that hens eat well, but are dying off and livers are found enlarged. These hens were overfed. Make them scratch a lit is for their grain.—M. G. C.'s fowls have swellen eyes and offensive breath. This is roup. It would be well to place the sick birds in a separate coop. Bathe the head with Arabian balsam and give two quinine pilis-daily.—Mrs C. S. C: Feeding sulphur w' I rid the hens of lice. Dust each hen with insect powder. Lambert's Death to Lice is good.—A. C. B.. For eggs of Golden Hamburgs write to any of our large poultry advertisers. Only reliable firms are admitted.—W. H. R.: For W P Rocks, write to the nearest poultry fancier, as advertised in F & H.—L. L., W. H. and others wish to buy Belislan hares. They are kept by Bausche: Miller, Greider and other of our poultry advertisers.

A tive hens are the best layers. have been very successful in such cases with camphorated oil, bathing the limbs

A tive hens are the best layers.
Clean houses and runs are the best
medicine.
A nest egg will usually stop hens
stratching the nest; if not, use shav-

ings.

If fowls leave part of their breakfast in the dish, remove it. If their
appetites fail, a change of food is
needed,

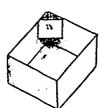
#### The Horse.

The Faithful Horse should not be The Faithful Horse should not be worked hard at first if closely confined all winter and fed mostly on rough feed. He will be stiff when first brought out, a give him his own time. In fact, it will say to give him the run of the barnyard during any spare time this nionth to get limitered up. Groom him well, don't hurry and be kind and he will soon be doing his usual good work.

Improving the Quality-Farmers' clubs for the purpose of improving the clubs for the purpose of improving the callity of horses have existed in Scotland for years. A club agent goes to the horse shows, selects a stallion which suits and then offers the owner so many mates at a fixed fee if he will place the stallion in his neighborhood for the season.—[Col.D. McCrae, Ont.

To Remove a Wart, scrape the surface crust and after bleeding stops, rub on a little bichloride of mercury with a piece of smooth wood. Repert once every third day, use no more at a time than would lie on a dime.

A Corner for Salt in the grain feed trough is shown by the cut. By nail-



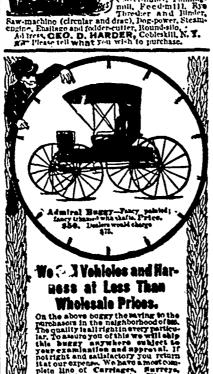
ing a board across a corner so it will be 1% in from bottom of manger, animals will soon learn to lick out the salt from un-derneath. It is weil

to put a cover on top. Don't allow water to get in contact with the salt.—[S. Dole.

The Horse Marke is quite satisfacthe morse marke is quite satisfactory. The export demand is strong while eastern farmers want considerable numbers for spring work. Prices are steady and tending upward. Good farm houses sell for \$70@120, while desirable draters bring as high as 225. Drivers and carriage teams if first class-bring paying prices.

A NEW STRAWBERRY of merit because of its large size, shipping quality and lateness is the Rough Rider. This valuable herry and all the standard varactes of large and small fruits are sold by L. J. Farmer of Pulaski, N.Y. His libitative descriptive catalog will be sent all our readers who write him for it, mentioning this paper.





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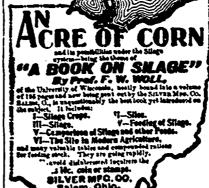
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### Dairy and Creamery. WHY A SEPARATOR PAYS.

I have used a hand separator on my farm 5 yrs and find by experience many advantages as compared with crocks or pans. There is a financial saving in the having of warm, sweet skimmilk for calves and pigs. We have sold Jersey calves for year at six weeks old weighing from 140 to 160 lbs, fed entire-

sey calves ard pigs. We have sold Jersey calves for veal at six weeks old weighing from 140 to 160 lbs, fot entirely on sept or milk. It has been deministrated y experiment stations that one cent's worth of olimeal will dealy and pigs as much good as a pound of butter. Besides this, the skinnmilk from the s parator, when it is run through and fee, to them immediately after milking, while it is warm, fresh and sweet, is better feed for calves and pigs at he skinnmik that is old and sour, even though it does contain one-fourth of the butter fart originally in it. This can be attested by hundreds who are to-day using farm separators.

From my experience in testing clock skinmilk for myself and many neighbors, I find that the loss varied from 4 to 1.8 per cent of the total butter fart by the Babcock test. And from the result of these scheet the milk is set in pains is \$\frac{3}{2}\text{ to 1}\text{ to can in the result of the contain one contain one of the stable.

Is also the following the service of the total butter fart by the Babcock test. And from the result of the count in the set of the stable.

It is also the following the service of the total butter fart of the scape of the count in the set of the stable.

It is not lost, as the cows and pags get it. I think I have plainly shown the ill gain in feeding butter fat to either calves or swine. Others say the machives are too high in price, and that they win wait until they become chapper, but if dairymen would reason a little with themselves, they could not be conviced them that the farm septon the farm; and chile they are waiting for the machices to ket cheaper, the separator is the best paying machine on the farm; and chile they are waiting for the machices to ket cheaper, the separator would have saved its contained the separator would have saved its contained to the s

#### FOOD FOR CREAMERYMEN.

The fierce competition in dairy products in the east, caused by markets being flooded with western butter, ought to admonish creameries to educate their patrons in better and more economical methods of feeding, show how to improve and build up the dairy herd and methods of feeding, show how to improve and build up the dairy herd and increase the butter capacity of cows, induce the keeping of records and the weeding out of poor cows, advise patrons of the best crops to grow and best and most economical feedstuffs to buy in order to reduce the cost of producing milk to its lowest possible limit, how to produce milk and deliver it to the creamery in the best possible manner. Creameries may also act as purchasing agents for patrons in foodstuffs, fertilizers, farming tools, etc.

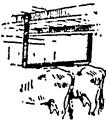
The patron on his part should be loyal to the creamery, be a stockholder if possible, should see to it that the best possible cream is made and that every care should be bestowed in delivering it free from taint and in good condition. He should endeavor to create a sentiment among fellow patrons of interest in the quality of the cream and the business of the creamerry.

eream and the business of the cream-cry.

Experiment stations should devote time to the solution of practical prob-lems of importance to both creamery and patron, should publish concise instructions for their guidance in feed-ing, butter making, fertilizing and other lives of work. There should also be held dairy meetings at which men who have mastered the various inter-esting problems shall speak.—[Dr J. II. Lindsey, Hampshire Co, Mass.

Selling a Cow by the amount and quality of milk she gives is a proposition from the N C exper sta. To sell or buy cows by the milk test seems like good sense. The plan is based on the yield of milk together with its quality as determined by tests of the milk. The

rule is to pay for the cow at the rate of \$12 p g.d of milk given a day that is rich enough to show \$1\frac{1}{2}\$ per cent of fat. To this price add or subtract \$1 for every \$1\$, of 1 per cent of fat which is above or below the \$3\frac{1}{2}\$ per cent. By this rule a cow is bought entirely enher merits. It is thought to be a conservative plan and one which, if adontservative plan and one which, if adopted, will certainly raise the standard of cows and increase their milk and butter production. The result of such a rule certainly would be beneficial to all.



On third of all the cows in Ohio are not paying their beard, and nearly one-half of the other two-thirds do not more than pay for their keeping and make good the loss of the first third. Two-thirds of all our cows return no profit whatever, and on's one-third can be classed as genuine profit makers.—[President J. F. Hickman, Ohio Dairymen's Ass'n.

Use none but the best of salt for dairy purposes. Salt should be as carefully kept as flour—in a dry, sweet and clean place, away from kerosene, fish and other rank-smelling articles.

One cow per acre can be easily kept where silos are used. The cow can have her food green from the field, or green from the silo, every day in the year. The dairyman has the entire advantage of his work.—[A. Jeffers, Norfolk Co. V.

The cow showing the best record last year in the home tests of the American Guernsey cattle club made 12,283 lbs milk, containing an average of 615 per cent butter fat, which would make 91215 lbs butter. Her name is Lily Ella No 7240 and is owned by J. H. Beirne of wife

of Wis

AT THE BOSTON POULTRY SHOW,
an interesting feature was the exhibit by
the Des Moines Incubator Co, Des Moines,
Ia. of 150 eggs in process of hatching,
these having been shipped from that city
to Boston, a distance of over 1400 miles.
Over 1900 chickens were hatched.

# More Money per Pound.



The advantages of The advantages of a farm separator are not alone in the increased amount of butter produced from the same milk, but also in its improved quality, which brings the extra few cents per pound. The Little Giant Separatur produces these arator produces these results surely, every time, everywhere. It makes the dairy busi-ness pay. Isn't that Send for Catalogue

what you want? The Sharples Co., P. M. SHARPLES.

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VERYONE who knows anything at all about cream separators knows that the "Alpha" disc system—patent protected and hence restricted in use to the De Laval machines—has revolutionized centrifugal cream separation just as centrifugal separation originally revolutionized previous gravity methods.

They further know that for five years every imitator and would be competitor of the De Laval machines has been veritably "tip-toed" in the effort to keep alive in the separator trade—that many have dropped out and that others are on the verge of doing so; that none have made a pretence of keeping in the race except through exaggeration and misrepresentation, cheap construction, co-called "cheap" prices, and still cheaper values to deluded purchasers.

The latest development of the "Alpha" disc system, embodied in the 2OTH CENTURY De Laval machines, still further increases the "resuperiority—rendering them simply unapproachable

crosses their superiority—rendering them simply unapproachable in efficiency and practicability by anything else in the shape of a cream separator.

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We furnish a complete line of Dairy and Creamery Apparatus. Catalogues free for the asking. VERNORT FARM MACHINE CO., Bellows Falls, Vt.

THE LOSS OF AN EYE -terrible columnity. The tip of a horn the horne quickly and Koyalone Dehorning Knife Cuts on for humanely with the Koyalone Dehorning Knife date, normal humanely with the Koyalone Dehorning Knife and normal humanely with the Koyalone Dehorning Wnife had normal humanely with the Koyalone Dehorning Wnife had normal humanely with the Koyalone Dehorning Wnife had no cool for descriptive circular, prices, etc.

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#### The Sugar Bush.

### MAKING A CHOICE PRODUCT.

Color and flavor are impurted by the nature of the soil. In these varying colors and flavors, each is but the natural pure product of the maple. To test your maples, know of no better way than take sap freshly dropped to the house and upon dining-room stove,

the house and upon dining-room stove, in the product will be a good sample of what your maples are capable of producing. Then endeavor to bring you, entire outfit up to the perfection that you can make a similar article.

To produce the best of which your maples are capable, careful, rapid movement, the soonest that it is practicable to gather the sap and reduce it to syrup and sugar with cleanliness in every detail, is essential. If you are to build new, locate the sugar house where you can have the sap and empty into the tank with the least spouting where you can have the sap and empty into the tank with the least spouting and handling possible, for sap is quick to receive color and flavor. Whatever kind of system of boiling you have, let it be continuous until the sap is reduced to syrup. There it a sediment in sap, although not perceptible until reduced to about 9 lbs to a gallon. By using proper strainers it can be taken out; it will generally settle to the bottom. Whatever being apparatus you have, arrange so you can continuously

out; it will generally settle to the bottom. Whatever boding apparatus you have, arrange so you can continuously reduce your sap to syrup in small quantities, say from 1 to 3 gals at a time. If troubled with sediment, the safest way is, after straining, let it settle and then draw off from the surface. Do not overheat as the syrup is approaching to sugar.

I have used tapping bits from 1/2 to 1 in, but prefer a 5-16 in bit with an oiled hard wood spout to fit the bit. The small bit cuts just as many grains of wood, therefore just as many grains of wood, therefore just as much sap and better, for there is not so large a space to receive air to dry and corrode and is less injurious to the tree. A well laid brick arch is most enduring and does equally as good work. Place a 35-flue heater or boner at the rear of the arch to utilize waste hat. The sap is heated and bolled all at no expense, with a tin evaporator 42 in by 12 ft, divided into departments of 15 in connected by metallic stoppled tubes and each department with an outside tube, then every department could be at pleasure made independent to be empited at any time if so desired. With the evaporator set on an inclined plane, there is an adjustable movement from evaporator set on an inclined plane, there is an adjustable movement from receiving the heated sap from boiler until it is passed into syrup to be drawn off. With such an inexpensive apparatus, a fast evaporating is fully realized. A well located sugar bush should produce from 3 to 5 lbs of sugar per tree, varying as to seasons.—[C. P. Stickney, Windham Co, Vt.

#### THE TALUE OF BUCKET COVERS.

Bucket covers will save their cost in one or two seasons. They save time in stormy weather, as it takes considerable time to go around to several hundred trees and scoop snow off the



SAP PAIL COVER AND PASTENER.

ice in the buckets, and very often sap is running more or less during a storm and the sap must be thrown away with the water, or wood wasted in boiling water with the sap. After he thets are emptied, colored water will often drip from the overhanging limbs into the buckets. In windy weather, leaves and dirt will blow into the sap and mice, squirrels and insects meet death by drowning. Properly covered sap is always clean and pure. Covers may be made of % in pine or spruce boards 5 or 6 in wide, matched or half lapped together, or plain edges with narrow or 6 in wide, matched or half lapped to-gether, or plain edges with narrow batten strips, square shape, 2 in wider and longer than the diameter of the top of the bucket, with cleats at each end put on flush with the ends of the boards and on the under side of the cover. Cut a hole in the rim of the bucket large enough to admit a metal spout easily. If a wood spout is used, cut a notch in the top of the

spout to held the bucket. Take two pieces of wire 2 or 3 in long, according to the kind of spout used, drive them into the center of the end of the cover ½ to ¾ in spart and bend them down, place the cover on the bucket with the wires between the bucket and the tree, slide them down one on each side of the spout; they should be bent to bulge where the spout comes and be ¼ to ¾ in apart underneath, the lower points turned out so as to slip on easy. The covers apart underneath, the lower points turned out so as to slip on easy. The covers should be painted with white lead and oil, or oiled with hot oil. I am using bass rood covers, but pine or spruce would be better.—[Fred J. Johnson, Windham Co, Vt.

#### WELL BOILED DOWN.

For tapping, use a % in bit; you will get as much sap as by a % or 1 in bore. Tap old trees 2 in; smaller and secondary growth not over 1½ in. The deeper the hole the greater the injury to the tree, as it never fills with new wood. Do not bore directly above or below

a former boring, except at quite a distance, no matter how old the scar may

After boring the hole, draw the bit forcibly out to clear the hole of any shavings and prevent their souring.

The best quality of sugar is made from trees which have more or less elevation and are away from large bodies of water.—[Timothy Wheeler.

Cleanliness and Dispatch are essentials in making prime sugar or syrup. tials in making prime sugar or syrup. Boiling sap or syrup over any considerable deposit of niter is done at the expense of both color and flavor of syrup. Boil to a density of 219 or 220 degrees to get a good precipitate of the carbonate of lime with malic acid in the sap. Use a felt strainer. Do nothing by guess; use thermometer and scales to determine the right density.—[Alpha Messer. Vt.

The Poorer the Quality of maple products the greater their value for adulteration. Producers do not realize half as much for inferior maple products as for a choice article. Ninety ducts as for a choice article. Ninety per cent of the adulterated syrup is glucose. The demands for pure maple syrup are unlimited.—[Ex-Gov Josiah Grout, Vt.

In Caking maple sugar for market, cook sugar to 238 degrees, later to 242 or 243, because of more foreign substance and less sugar crystals in the sap. Don't ship small cakes in large packages.—[C. D. Whitman.

There Is.a Great Difference in the sugar production of maple trees. A maple at Duxbury, Vt. produced 32 lbs sugar in 1 yr; 5 qts sap-from a tree at Corinth made 1 lb sugar; another tree ran 1 bbl sap in 24 hours, said Timothy Wheele. to Vt sugar makers' ass'n.

Every Cattleman Needs One-One of the most important of the many "si-lent revolutions" which have taken place in farm methods in the past decade, has been the change in public sentiment in regard to dehorning cattle. When first practiced it was thought by many to be both cruel and unnecessary. Time and experience have demonstrated beyond question that it is not only a most humane practice, but is also highly profitable to the owner of the stock. The best authorities now indorse dehorning and it is practiced to-day in all the experimental stations and prize dairy herds of the country. Probably no one had more to do with bringing this about than A. C. Brosius of Cochranville, Pa. Early methods of dehorning were both crude and painful. Mr ade, has been the change in public seninis about than A. C. Brosius of Cochranville, Pa. Early methods of dehorning were both crude and painful. Mr Brosius invented a dehorner in 1892, which has a quick, powerful action and makes a clean, smooth cut. The cutting edge: of the blace are applied to four sides of the horn simultaneously, obviating entirely the cruel and painful operation of the straight, rotary or shear principle knives, which always result in more or less crushing or bruising. This dehorner was awarded first prize at the World's fair and has increased in popularity ever since. A beautifully illustrated catalog will be sent, renders of F&H who write to the manufacturer for it.

# Cured By Swamp-Root.

#### To Prove What This Great Kidney Remedy Will Do For YOU, Every Reader of "Farm and Home" May Have a Sample Bottle Sent Absolutely Free by Mail.

Among the many famous cures of younger every day. Five years ago I Swamp-Root investigated by Farm & only weighed 104 pounds: I now weigh Home, the one which we publish this two week for the benefit of our readers, speaks in the highest terms of the wonderful curative properties of this great widness. M. E. DALLAM, Proprieters of Criswell House.

I felt sure they were the cause of my trouble.

"Some doctors pronounced my case gall stones and said I could not live without a surgical operation, to which I would never co.sent. In May, 1898, I had the most severe attack, then the doctors said I could not live. It was during this illness that a friend suggested I try Dr. Klimer's Swamp-Root. I began to take Swamp-Root regularly, and when I had used only three fifty-cent bottles I felt fine and was able to do more work than I had done in four years. It has made a new woman of hie I have only had one slight attack since I began to take Swamp-Root, and that was caused by being drenched with rain and catching cold. This stomach trouble had bothered me for about twenty years and had become chronic. I am now 44 years of age and feel much younger than I did ten years ago. My friends say I am looking

It used to be considered that only urinary and bladder troubles were to

suffered as I have."

MRS. M. E. DALLAM,

Proprietress of Criswell House. 211 W. 5th St., Kansas City, Mo.



It used to be considered that only urinary and bladder troubles were to be traced to the kidneys, but modern science proves that nearly all diseases have their beginning in the disorders of these most important organs. The kidneys filter and purify the blood—that is their work. So when your kidneys are weak or out of order, you can understand how quickly your 'entire body is affected and how every organ seems to

fail to do its duty.

If you are sick or "feel badly" begin taking the famous new discovery, Dr. Klimer's Swamp-Root, because as soon as yo r kidneys are well they will help all the other organs to health. A trial will convince you and you may have a sample bottle free for the asking.

Many women suffer untold misery because the nature of their disease is not correctly understood. They are led to believe that womb trouble or female weakness of some sort is responsible for the many ills that beset woman-kind.

correctly understood. They are led to believe that womb trouble or female weakness of some sort is responsible for the many ills that beset womankind.

Neuralgia, nervousness, headache, puffy or dark circles under the eyes, rheumatism, a dragging pain or dull ache in the back, weakness or bearing down sensation, profuse or scanty supply of urine, with strong odor, frequent desire to pers it night or day, with scalding or burning sensation, sediment in it after standing in bottle or glass for twenty-four hor similar that it is a showing that you need Swamp-Root are sleeplessness, dizziness, irregular heart, breathlessness, sallow, unhealthy complexion, plenty of ambition but no strength.

Swamp-Root is pleasant to take and is used in the leading hospitals, recommended by skiliful physicians in their private practice; and is taken by doctors themselves, because they recognize in it the greatest and most successful remedy that science has ever been able to compound.

To prove its wonderful curative properties, send your name and address to Dr. Kilmer & Co., Binghamton, N. Y., when you will deceive, free of all charge a sample bottle of Swamp-Root, also a pamphler of valuable information pertaining to kidney and bladder troubles, by mail, prepaid. This book contains many of the thousands upon thousands of testimonial letters received from men and women who owe their good health, in fact their very lives, to the wonderful curative properties of this great kidney remedy. Swamp-Root is so remarkably successful that our readers are advised to write for a free sample bottle and to be sure and mention reading this generous offer in Farm and Home.

If you are already convinced that Swamp-Root is what you need you can purchase the regular "fty-cent and one-dollar size bottles at the drug stores everywhere.

cdge: of the blace are applied to four sides of the horn simultaneously, obviating entirely the cruel and painful operation of the straight, rotary or shear principle knives, which always result in more or less crushing or bruising. This dehorner was awarded first prince at the World's fair and has increased in popularity ever since. Abcautifully illustrated catalog will be sent renders of F & H who write to the manufacturer for it.

Jumping at Chances—I wanted an early garden, but not having fall plowed and garden being wet threw soil from a large hotbed at one side of

for home use, but sold quite an amount

#### Large and Small Fruits.

#### TEST YOUR PARIS GREEN.

There are three simple tests for purity, two of which may be tried by anyone. Pure paris green dissolves free-ly and wholly in ammonia, forming a ly and wholly in ammonia, forming a beautiful blue liquid. Any material which fails to dissolve is an adulterant. This test will not show the presence of free arsenic, however. Take a fittle paris green upon the point of a penkuife and place it on a piece of glass, holding the glass at an angle. Jarring the lower edge will cause the green to move down the inclined surface, leaving a bright green track if the sample is pure. In the case of many adaptated or impure samples the path would be white or light green.

Is pure. In the case of many adacterated or impure samples the path would be white or light green.

The most satisfactory of the easy methods of testing is the use of the compound microscope. Place the sample on a piece of glass and treat as above. Then place the glass under the microscope, using a quarter-inch objective. The parts green will be seen in the form of clear, round balls. In impure samples there will be seen in addition, more or less material of irregular shape, usually white. If the sample contains an excess of free arsenic, which has been a field in the form of a powder, it may be recognized as any other a fulterant. But when added during the process of manuf, ture it sticks to the particles of parts green and only produces the eacet of making them more triegular in form and causing a tendency toward sticking together.

For Plum Curculio, either in olum or apple orchard, spray thoroughly just before blossom buds open, as soon as the petals fall and again in about a week with bordeaux and parts green -[Prof S. T. Maynard, Mass.

For Current Worms, spray when the first young worms are noticed. If the worms come on before the currants are out of blossom, spray before they bloom. Use paris green or white hellebore if you can get it fresh.

The Kerosene and Soap Emulsion, The Kerosene and Soap Emulsion, the vilest of concoctions, is doomed. The kerosene and vater emulsion is to take its place. The two great difficulties, mechanically, the mixing of water and oil and the securing of power enough to mix the liquids and throw the spray, will be overcome. Automatic pumps for this purpose are not yet perfect, but some of them are perfect enough to be useful and reliable and they indicate that we may expect better things.—[Prof L. H. Bailey, N Y.

The Apple True Anthracnose is a new disease affecting the apple orchards of the Pacific northwest. It attacks chiefly the branches under 2 or 3 inches in diameter, appearing with the autumn rains as depressed, brown areas of bark.

Look Out for the Poisons—It is a dangerous thing to have the general run of farmers buying white arsenic for spraying and mixing and boiling it themselves. One has only to inspect the ordinary farmstead to see how careless the owner is about things which require careful handling and weighing. The refuse is thrown in the yard or into a stram. Utensils are left where they were used. There are farmers who are otherwise, and if they have much spraying to do, the white arsenic can be recommended confidently: but I believe that most people should buy their poisons ready prepared, even if the cost is somewhat greater.—[Prof L. H. Bailey, Cornell Exper Sta, N Y.

Fully three-fifths of the varieties of are wholly self-sterile or are greatly improved when cross-pollinated. Some of the more common self-sterile sorts are Bartlett. Anjou. Boussock, Clairgeau. Clapp's Favorite, Sheldon, Louisa Jersey and other varieties.

F & H is more interesting and full of up-to-date talk in every way than ever and the best agricultural paper that is taken here, where all kinds of farming papers are subscribed for. IMrs Maude S. Jacobs, Tompkins Co, N.Y.

### Market Gardeners

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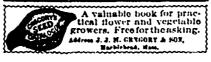
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# The Mapes Manures.

# FARMS GROWING RICHER EACH YEAR.

Send postal for latest pamphlet, "Twenty Years After," experience on a poor, almost worthless field (seven acres,) since 1879, up to date, that had been brought up into good condition with profitable crops, potatoes, oats, corn and hay, from the start only the Mapes manures used. The New England Farmer said of this field. "Now that seven acres is easily worth as a property, paying dividends at five per cent. on \$4,000."

I have used the Mapes manures over twenty-five years almost exclusively. When I started to use the Mapes manures I had one of the poorest farms in the county, and at present time I have one of the best in the county It you don't believe it, come and judge for yourselves. I wish you could have seen my hay crops for the last ten yours, no better in the county, and I owe it all to the Mapes manures, as far as fertility is concerned.—[Lewis Bettz, North Penn, Pa.

Before using Mapes manures we thought it a big thing to grow 20 bushels of wheat to the acre, but can know now on the average of from 27 to 47 bushels, and get far better grass. We cut in the year of 1898 about 55 tons of hay on 2s acres, and I think that speaks very well for your goods for one who does not buy any manure. We keep four horses on farm and four cows, so you may know about what manure the land gets.—[R. M. Everett, Lawrence Station, Mercer County, N J. June 10, 1899.

Our section is overrun with agents offering fertilizers at very low prices; and with many of our farmers the very low price backed by the assertion of the agent that, "it is just as good or better than the so-called high grade," will win every time with the man that knows nothing about fertilizers. My land is a standing practical advertisement of the merits of the Mapes manures. I have used them almost exclusively for the past sixteen years, with results that should be convideing to anyone seeing the permanent improvement in the productiveness of my farms. My crops are wheat, corn, oats, potatoes, clover and grass.—[D. R. Merkel, Shiremanstown, Pa, June 9, 1899.

# THE MAPES FORMULA AND PERUVIAN GUANO CO.,

Send postal for pamphlets,

143 Liberty Street, New York.

# Gardening Under Glass.

#### FRUIT GROWING UNDER GLASS.

The subject of growing fruit under glass has not received the attention that it deserves in America. In England it is a great industry and large estab-

glass has not received the attention that it deserves in America. In England it is a great industry and large establishments are devoted to growing fruit. There is one near London of 40 acres covered with glass, which gives employment to 500 men. Fruits grown under glass attain a higher degree of perfection in size, color and flavor than the same varieties grown out of doors, but the great advantage is in ripening them earlier and in growing certain very choice varieties which could not otherwise be perfected. For instance, i.e. vinefera, or hard-meated, grapes like Black Hamburg cannot be grown in this country except under glass.

The fruits that are commonly forced are grapes, peaches, nectarines, plums and apples. Grapes are grown more largely than amything else and are raised in a cominercial way in America. The earliest houses are started up in January and the grapes mature in June. But many grapes are grown in what are known as cold graperies. These have little or no heat at all and the vines are not forced so early in the season. The grapes begin to ripen in August and continue until the holidays. The vines are all anys planted in beds or borders either inside or outside the house, the latter giving the best results, but requiring more care.

Tree fruits are commonly planted out in the greenhouse, and like grapes, require expert knowledge to handle them. The watering, pruning, thinning and disbudding are all operations that require great care. But the fruits are not hard o grow after one understands their needs. The houses are generally started up in Jam or we hand the fruit brought to maturity in May, June and July before outdoor varie es are ripe. Nectarines and peaches often bring as high as \$4 per doz, and some trees will ripen as many as 12 doz. The trees may also be grown in pots and not forced with artificial heat. They are stored away in winter and brought out in the late spring.

PLANT CLOTH VS GLASS.

#### PLANT CLOTH VS GLASS.

Plant cloth is much cheaper than glass to cover hothed frames and superior for many purposes. The beds do not dry out so quickly under it, the plants never burn, they get more ventilation and grow hardler and stronger. In the very early spring or late winter a covering of plant cloth is not as warm as glass, but during cold spells an extra cloth-covered frame may be put on. If a layer of thick paper is placed between the two frames it will keep out celd better than glass. The frames may be cheaply made of boards, 1x2 in in size, halved at the ends and nailed with clinch nails. The handlest size is 6 ft square with a center piece. The cloth should be stretched slightly and nailed with big headed tacks. For hardening off plants that have been started in hotbeds or greenhouses there is nothing equal to a cold frame covered with plant cloth. plants never burn, they get more ven-

It Is a Mistake to try to grow several varieties of vegetables in the same eral varieties of vegetables in the same house unless they are carefully chosen. Cucumbers, tomatoes, melons and boans want a high temperature, while lettuce, radishes, beets and cauliflower need from 10 to 20 degrees cooler. A little care in selecting kinds as near alike as possible will prevent disappointment to the amateur.

To Make Waterproof Muslin, close seams on common cotton and tack to the frame. Heat over a slow fire until well mixed and apply while hot the following: Old, pale, linseed oil 3 lits sugar of lead 1 oz, white resin 4 oz. Sugar of lead should first be ground with a little linseed oil, then the rest of the oil and finally the powdered resin added.

Tomatoes of the smaller arieties bring a good price in the old country and can be sent safely in cold storage.

The earliest kinds of potatoes and of dwarf habit are the best for forcing as an early crop. Early Rose is an old favorite.

Care should be taken to air tomato plants so as not to chill them and at

the same time to air them sufficiently to prevent them from being drawn up and becoming long and spindling. As soon as the heat ceases in the seedling hotbed, they should be transplanted into another hotbed with good bottom heat, setting them 6 or 8 in apart each way georgities to the sign of the plants. way, according to the size of the plants,

#### SPRAYING FRUIT TREES.

The question of spraying fruit trees to pre-vent the depredations of insect pears and fungous diseases is no longer an experiment butanecessity.



Our readers will do well to write Wm.Stah., Quincy, Ill., and get his catalogue describing twenty-one styles of Spraying Outfles and full treatise on apraying the different fruit and vege able crops, which contains much valuvegetable crops, which contains much valuable information, and may be had for the saking.



of 900 kinds. Medium in size and slightly wrinkled, but of highest quality and tiavor, and a great maker because of its earliness. Large Seeds Free! live, active market gar and wavelit mall FREE one pit. of Globe lizadah

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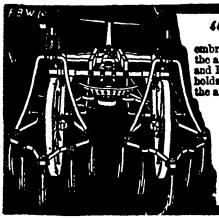
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out two rows for planting 28 to 43 inches apart. After planting, these same two rows may be covered satisfactorily at the same time. Everything of the best material throughout and all fully up to the high "PLANT JR." standard. Our full line embraces Seed Drills, Wheel Hoes Hors House Cultivators, Harrows, Two-Horse Cultivators, Sugar Beet Seeders and Cultivators. We have published for distribution in 1900, an edition of 250,000 estalogues of our "PLANT JR." goods. This estalogue is profusely illustrated with all our toolsmany of them as in actual operation, at all kinds of work in all countries, at home and in many foreign lands. It is openly acknowledged to be the most comprehensive and valuable work of its kind over published. We mail a free copy to every address.

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#### The Truck Garden. MAKING A HOTBED.

Make beds on good, dry, well-drained. rich soil 15x7 ft. Work the soil 15 in deep, and if the subsoil is good and loamy IS in deep will be none too much. Mix in plenty of well-rotted manure and pulcerize all together as perfectly as possible. If the soil is heavy

and pulcerize all together as perfectly as possible. If the soil is heavy and does not contain much sand, mix in about 5 or 6 bu sand which is meither very fine nor very coarse and add 1 pix of unbroached ashor. The sand once in the heds will be there for all time, and the same beds should be 0 of every year. Each season mar \* them well with barmyard manure, w al-officed usings a peck of unbrached ashes every season. More sand may be used cuch season if mecastry, one-third of time sand is not too much on heavy soils, tone side of the beds should from the beds should be 6 in higher than the south side when finished.

To make the feame, take good inch lumber 14 ft long and 12 in wide. Take two boards and cut the ends square and use a plece for each end of frame, set up your side beards so they will be just 6 ft 4 in apert, outside measurement, and on the ends flush with tupper edges of the sides, letting the ends lap over about equal on each side. The lap on the end, though not used, review to keep the ends from splitting when being nailed on and taken apart again. If 3 in wire mails are used and frames to suit, but frames smaller than those described will not be found and 2 ft 4 in long and 3 ft 6 in wide and contain 5 rows of 729 glass. Four of such sash cover a bed completely. Almost any size of sash can be used by making beds and frames to suit, but frames smaller than those described will not be found as profitable. Set the frame on the bed true and let the edge of the south learly down below the surface 3 in. If any space is left open at the back, lank up with earth, put on the sash close and should be flar on the south learly down below the surface 3 in. If any space is left open at the back, lank up with earth, put on the sash close and should be flar the over of the with the over of the with the over of the surface 3 in. If any space is left open at the back, lank up with earth, put on the sash close and of the contains the con

it rich put on plenty of barnyard ma-nure. No fertilizer can excel this and this every farmer has. To make it deep sink in the plow as deep as you can. But this must be done judichously or the garden will be spoiled. This means to go into the subsoil.

The verdict of farmers is that sub-

The verifier of farmers is that subsoling does not pay. Their way of subsolling does not pay because they fall to pulverize the subsoli. No machine has been invented that will pulverize it as fine as powder. My garden had a poor soil about 5 in deep with a white clay subsol. It now has a rich brown learn about 15 in deep. It was done this way: I throw up 1 or 2 in of subsoli in fall. When the freet had well crumbled it I gave it a heavy coat of rich manure and let the spring rains wash it into the sell. Every few years I repeated this process until I had gone as deep as three horses could drive the plaw. This takes time, but it pays well wherever intensive farming is to be practiced.

A garden should also be free from

A garden should also be five from clode from packing and bakt v. This is mellow soil. Heavy manufung greatly being to secure this. But neithing is so good as sand. The self-should be about encouraged sand. We tarm travels four miles for every lead of rand I hall. I cover lead of rand I hall is a few class and that sand will be where I put it when clairful hows his horn. I think it pays well to haul sand on clay ground. Also put on I or 2 bids of askex every year and by this treatment your soil will be required. Especial care should be A garden should also be five from

With such a soil, a perfectly mellow. garden car be made to yield enormous profits in the hands of a skillful man. [W. L. Anderson, Montgomery Co, Ind.

#### FARM AND GARDEN.

Many a tenant farmer makes no effor the raise calculation among his own, let alone furnishing any other table with the vegetables that may be raised on a farm with but little extra work.

Some kinds of bean, corn, onton, par-

profitable. Set the frame on the best true and let the edge of the south leard down below the surface 3 in. If any space is left open at the back, bank up with earth, put on the sash close and let the beds heat up as hot as the sun will heat them for a day or two; then the beds will be ready to plant. The beds will be ready to plant. The beds will be ready to receive plants about four weeks earlier than it will do to beds in the edgen ground.—[S. H. Mitchell, Ont.

The little plot we call garden should be made to yield a much larger profit t. an any other places of second on the fan n. To do this, it should be brought up a its highest capacity in productiveness. Itses it should be plant in the carth and water.—[Will large, Bucks to have the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil. To make to with any on the lest soil be soil place in the earth and water.—[Will Largh, Bucks Co, Pa.

Onion Fertilizer-W. B. B. Vt: Five per cent ammenia, 10 per cent phos-phone acid and 10 per cent actual potneb is a very high grade festilizer and it would not be safe to apply 2 tons p a fer onlone. From 1 to 1½ tons would be all that can safely be used and it must be all smoot broadcast and thoroughly mixed with the soil 2 or 3 in deep to prevent seed from being burned. [C. W. Hubbard, Hampshire Co. Mass.

Sow Some Watercress around the spring run. Its pungent taste makes it a relish and an excellent appetizer in the early spring before anything in the early spring before anything else given has thought of growing. Sow most in the lost of a run where water is not ever 1 or 2 in deep and does not run too swiftly. Bead grass and roots should first be cleaned out. If the bottom is sandy or gravelly, it will do better than much. The plant is a percential and if the location is good and it is out over carefully, the hed will last indefinitely. Spring runs near their sources rarely freeze over and in onen

taken on bright, sunny days lest too much heat is allowed to accumulate much heat is allowed to accumulate next the glass, else the plants will be overdrawn and thereby injured. Grow the plants as large and strong as possible until the leaves touch each other. Then no time that the leaves touch each other. Then no time that the leaves touch each other. Then no time that the leaves touch each other. Then no time that the leaves and dig them so as to break the roots as little as possible. Mark out the soil on the benches in rows, 12 in apart, and dibble them into the ground, setting them up to the seedleaf. Set the plants 7 in apart in seedleaf. Set the plants 7 in apart in the row. Let them grow until the leaves touch again and they are ready for the second removal. This time they are to be boxed off.—[S. H. Mitchell,

DROPS

added. Very few drops of oil are required, only enough to moisten the seeds.

To Grow Choice Celery, put only thoroughly rotted manure in the trenches. If there is straw or dryness in the manure the celery is sure to be pithy. Never let the plants suffer from want of water or liquid manure, both when first planted out and during dry summers.

seedleaf. Set the plants 7 in apart in the row. Let them grow until the leaves touch again and they are ready for the second removal. This time they are to be bexed off.—[S. H. Mitchell, Cheating the Birds—In sowing small seeds take several drops of linseed oil and well mix the seeds adding a table-spoonful of red lead and sowing in a dry state. No bird or vermin will touch them. For peas and larger seeds more linseed oil and red lead are required, but the seeds should be well mixed with the oil before the lead is

MEURAL GIA Gentlemen: I have been sending to you for your "S DROPS" for several parties who have used it and who say it is the best they ever used. One old lady has had NEURAL IIA FOR 40 YEARS, has tried nearly everything she could hear of without relief until she commenced using "5 DROPS" and now she is not troubled with the disease. Each one that has used it says it is the best remedy, and all join in praise of "5 DROPS." For the enclosed money please send me three large bottles of "5 DROPS," one package of Pills and one Plaster, and hurry them forward without delay.

Jan. 11, 1900. SAMUEL SPEEGLE, Palleville, Ala Gentlemen. My mother, Mrs. Eliza "Austin, of Fremont, Wis., has been almost an invalid for years with RHEUMATISM and for the past five years has not been able to walk 40 rods until she began to use "5 DROPS," about two months ago. She now walks a mile at a time and is doing all herowa work in the house, a thing she has not done for years. You are at liberty to publish this testimonial, with my name and also my mother's.

Dec. 27, 1899. MRS. C.H. PURDY, Waspa a, Wi.

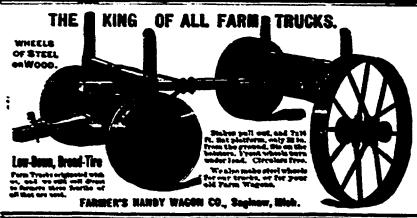
liberty to publish this testimonial, with my name and also my mother's. Dec 27, 1899. MRS. C. H. PURDY, Wanpa a, Will lethemost powerful prediction. Pree from opiates and perfectly han him. It gives almost instantaneous relief, and is a positive cure for Rhomandile a. Bediation. Neurralgia. Byropepola. Backnebe, Asthma. Hay Fow r. Chiarris. I.m. Grippe, Croup. Riceplessices. [(erromoses. Reyvi... and Seutralgie Hendachen. Engage. Twothache. Montel Westland, Bruppey. Malaria. Creeping Numbersa, etc. etc.

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[TRADE MARK.] Sold by crande gentle Assets was tended by the set of the set o



SPHT ON TIMAL to be returned at my arposes of notes in Chicago, Columbia, Louisville, San Francisca, Essant Cit, Elizare, Columbia, Louisville, San Francisca, Essant Cit, Elizare, Columbia, Louisville, San Francisca, Essant Cit, Elizare, Calalogue and booklet, "An Ideal Morrow," month From. Additional City, Elizare and Santa Market, "month from. Additional City, Elizare Trans. Additional City, Elizare Santa City, Elizare S





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#### FARMIN' DON'T PAY.

Oh, I know it for a fact, sir,
Farmin' don't pay.
In my barn this line I've tacked, sir:
"Farmin' don't pay."

I have had the best of training. On the farm my bread I'm gaining, But my faith in farms is waning; Farmin' don't pay.

Yes, I guess you're right about that;
Farmin' don't pay.
Seen your farm, I don't doubt that
Farmin' don't pay.
Drainage, culture you don't practice,
Every tool you've shown me cracked
is.

I'll agree the honest fact is Farmin' don't pay.

Had you tried fertilization,
Farmin' would pay,
Drainage, moisture-conservation,
Farmin' would pay; Farmin' would pay,
Practiced food elaboration,
Tillage, weed-cradication;
You'd declare to all the mation;
"Farmin' does pay."
M. G. Kains.

#### ECONOMY OF TIME IN FARMING

Written or the face of my father's d clock were these words, "Time is old clock were these words, "Time is money." These words faced me for 20 yrs. I first wondered what they meant, afterward wondered why others didn't When I left the quiet, easygoing country and saw the bustle and stir of city life I thought others did

stir of city life I thought others did know.

Save every minute you can and you will save money. A farmer who paid one hand one-third more than he did his other hand said one worked as hard as the other, but did a third less. I asked him why. "Because he puts on too many extras," he replied. These "extras" are where the loss of time comes in. I know a man who has his corn bin in the loft of the barn when he could have nad it on the feed floor. He climbs up and down that ladder two or three times every day to feed his horses. The unnecessary labor caused by this ill-arranged crib costs ham not less than \$25 every 10 yrs, if time is money. One of my neighbors has a crib 100 ft away from his feed from. For 40 yrs he has been carrying a few ears two or three times a day from the crib to the feet from. What has that crib cost him?

I knew a farmer who each year had his hands cutting down corn stalks with hoes in May. It would have been

I knew a farmer who each year had his hands cutting down corn stalks with hoes in May. It would have been cheaper to have knocked them some cold morning with a team and pole at \$10 a day. I went into a barn the other day where there were 12 horses and 2 cos. A man was carrying water to them from a pump 200 ft away. He said it took him \$\frac{1}{2}\$ hour each day to carry the water. That would amount to over 18 days in a year, or since time is money, \$18 a year. For half that sum a pipe \$\cdots \frac{1}{2}\$ have been run from the well to the barn and a 50c bil would have made two tubs that would have placed the water in reach of all his stock without going out of the barn. He was throwing away \$180 dollars every 10 yrs.

every 10 yes. I stopped with a farmer in Pa who had a spring about 100 ft from the house, but in a hill on a level with the comb of the house. A deep path was worn in the hillside where he had been carrying down water in backets for 20 yrs. What a vast amount of labor and account and complete had been wasted. for the want of a little sense and a few pipes! Almost every farm has some of these "extras" that could be removed these "extras" that could be removed were it not for stupidity—[W. L. Angerren,

The Eleme, of Character which many boys lack due in no small part to their home surroundings or bringing up is self-control. In a fit of passion, the young boy strikes another or destroys some article or attempts to run "may or do some other foolish act. This same lad, as soon as his frenzy is over, is penitent, humble and full of promises to do better. Anything that will cultivate self-control and true self-respect is of inestimable value to boys of this flery sort of disposition. And nothing is more encouraging and insplicing than to see a boy gradually but surely acquiring that power withtheir home surroundings or bringing

out which his life can be nothing but a failure, and with which he will be "greater than he that taketh a city."

Making Captains of Industry—It is the duty of the university to train men to manage corporations. To manage a great corporation so as to subserve the best interests of all concerned is a task that demands an honest, able, far sighted and great hearted man, a king-ly man in the best sense of the word. With such men as rallegad kings, coal barons, captains of industry and merchant princes, consecrating their genius to the best service of stockholders, laboring men, consumers, community, the state, the glory of the 20th century must surpass that of all the past, and industrial freedom and prosperity of the people, by the people and for the people become an assured fact.—[Dr C. S. Walker to Mass 11'd of Agri. Making Captains of Industry—It is

A Subscriber's Experiments-Last ear I tested foreign seeds for the U S dept of agrl. I found one cucumber, a Russian sort, that matured fruit in a Russian sort, that matured fruit in four weeks in the open ground. Another Russian sort produced cucumbers as long as a man's arm. One kind of field corn matured in 60 days; the ear was small. Three varieties had extra large kernels, some measuring an inch in length, and the stalk of each was immense. They came from the South Sea islands.—[J. H. Gray.

Some Good Ministerial Advice-The spring will soon be here and the wise farmer will be laying plans for his kitchen garlen. The farmer who does kitchen garlen. The farmer who does not have a good garden, well stocked with fruit and vegetables of all kinds, won't be able to enjoy heaven if he eyer gets there. He will have so much dyspepsia and melancholy in the world that eternity won't be long enough to get his system in shape to enjoy the next. The farmer who does not have a good garden, so that his family can have fresh vegetables and fresh fruit in season, is an enemy to mankind, for the reason that he sends out into the world his progeny with sour stomachs and sour dispositions, to have about the same effect on society as a carbuncle has on a man's nose.—[Frank Hunt, Ont.

Farming, like any other business, should be ruled by ideals.

The experiences of a single season do not prove or disprove things which are true.

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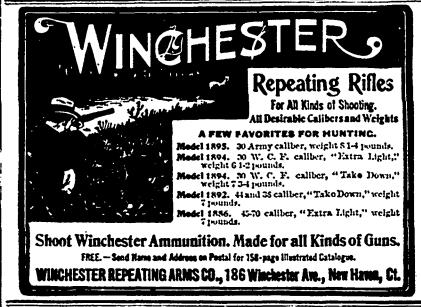
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This wagon is equally desirable in hauling ensilage, corn, corn fodder, hay and grain in the straw; for clearing up land and hauling loga, wood, stumps, stones, boulders, &c. Saves more hard, labor for man and beset; than any implement on the farm. Send for freecasiag.

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#### The Dominion Over.

#### ONTARIO'S CROPS LAST YEAR.

The returns to the Ont dep't of agrifor 1899 have been sent in by about 2000 correspondents. Secretary James makes the following official estimates therefrom:

	Acres	Per a	Total bushels
Fall wheat.	1,049,691	13.8	14,439,827
Spring wheat,	398,726	17.7	7,041,317
Barley.	490,374	30.2	14,830,891
Oats.	2 363,778	38	89,897,724
Rye.	137 524	16.6	2,254 846
Peas.	743,139	20.4	15.140.790
Buckwheat,	132,682	16.7	2,203,299
Beans.	40,455	16.1	enn.129
Potatoes.	168,148	113	19,933,366
Mangels,	53,401	391	20,898,387
Carrots,	11,891	209	3,674,050
Turnips.	155,440	.::7	57,878,390
Corn,	337 5;41	65	21,673,234
There was	also raised	171.97	5 a corn

There was also raised 171.975 a corn for fodder and site, yielding 9 % tens p a, or a total of 1.657.755. The 2.56.422 a hay and clover yielded 1.49 tens p a, or a total of 2.49.705. The total acrosse under crops was 8.757.926 in 1898, there were 8.845.222 a. Apples yielded 19.126.429 bu, or an average of 3 2 hu p tree of bearing age. Of hiv stock, there were, horses 615.574 head, cattle 2.318.255, of which 975.698 were mileh cows, sheep 1.712.95, hogs 1.271.610, poultry 9.344.900. Furring the year there were sold or slaughtered, horses 15.56, cattle 555.585, sheep 655.208, hogs 1.875.466, poultry 9.3102.614. The wood cup was 5.525.122 lbs.

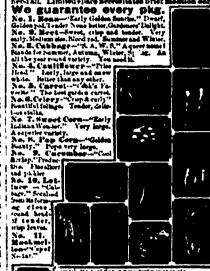
The Horse Market is in a peculiar condition. The home government has placed an order for been head for use in placed an order for loss head for use in Africa, but before this order was placed, had bought heavily all through Ontario. With the cream of export horses bought up, the statistics recently given out from the office of the minister of agriculture for 1899 are of interest. In 1892 there were a total of nearly 689,600 horses in the province, in 183, 655,200, 194, 677,000 195, 648,000, 196, 624,700, 197, 613,700, 198, 611,200. The stock of horses on hand last year included 420,500 working horses, 77,900 breeding mares and 102,800 of all others.

Ontario—Hutter sold at 25 to 25c on Feb 1 at Hamilton, eggs 25c, wheat 66c, oats 30c, pigntoes 25c, hay 310 to 12, ont straw starce at 37. The winter has been against wheat. About one-half the igach trees of Kent Co were killed one year ago. There has been no course uniformly followed with regard to replanting, a few replanted some liave planted plums, and one field planted with melons gave an enformous yield. No other kind of the twitt quite supply the place of the perch. Ontario-Butter sold at 25 to 28c

Quebec-Last year was an average prosperous one with farmers through-out Huntingdon Co. Crops were very good and hutter and cheese sold for good and hutter and cheese sold for higher pribes than for a veral years. Butter was sold at 21 to 26; for the and cheese 11 to 12c. Butter and cheese will probably have a ready market at good prices this year, as the demand is brisk. The outlook is also faverable for other farm products. Very little snow and much changeable weather, rather inclin. I to be mild.

for 1900. Actions a fair crop and mostly add, loss of any, were borne by spaculations. Any mid-applies on the trees, so much for the orchard in a lump sum, and in this way realized more than they otherwise would. Applies in the warefidings a see turned out hadly, partly on account of not keeping, and in some few cases, loss has onne to shippers by partles patting up poor fruit. The high winds of last fall made a good many drops and we fear some avaricious persona have put some of them up and sold for picked fruit. This short-sighted policy sooner or later comes back on the geller's head. Polatoes have been

VEGETABLE PEACHES Timmar vol of the content; grown from the seed days, perfectly delicions. Large Packet days, perfectly delicione Targe Picket. og of largeline and a lic. Presentall for I .A. T. COOK (Seedoman), Rock City, N.Y.



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Large but tell. Spinodd for pies. Will us price for you wherever shows.
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Good become mon in every locality, a lag, to introduce and adversion our good their earth on fences, along public to example one fences, along public to example to the produce of the second of the s

AGENTS Wanted in overy country for Agile Wrench." By great on every during, Band Ar for sample and go in work. WHENCH OUN PANY, SMI BL Caliberine R.L. Westerni, yes.

Nova Scotia Farmers of Kings been the highest price paid. Shippers county are fairly well satisfied with the said of crops for 1855, and seem heleful for 1866. Aspiece a fair trop and mostly winter and very little snow.

A Big Lumber Cut was made during 199, entimated at 300,000,000 ag ft. The cut in 1998 was \$10,000,000 ft. The record year was in 98, where 910 million feet

No better investment can be made each year than the spending of a few dollars for some first-class, up-to-date lands treating on the various lines of agriculture. If only a half dozen books are bought a year, a good-sized library will be got together in a comparatively short time.

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Parmers know how to farm but they

do not know how to vote. The consequence is they are robbed by law, or perhaps better said, by lawyers.-[T. Ik va. Watford, Ont.

England has lought 12,000 tons 42a-tadian hay at \$3 p toerfor use im Africa. The wise farmer takes precautions.

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#### Canadian Farm Affairs.

#### PROFITABLE WAYS OF FEEDING

High class stock keeping is as neces sary to high-class farming as the latter is to the former, and either is as dependent upon the other as two distinct branches of one business can possibly In every case they must go hand in hand in order to bring either to the highest point of successful manage-

No line of stock can be economically fed under perfect conditions except through the products of the farm upon which they are kept, while stock must be the medium through which the crops grown on the farm find the most satisfactory market. The practice of feeding stock through commercial channels, such as purchased corn and mill feed, may be made to pay where steers are being finished for the block, and the product in beef selling at good prices. The same claim can be made where cows are kept to supply milk or cream for large cities. But in either of the foregoing it is necessary that the farm should supply the bulky feed required and the manure produced returned to the land to make it as highly productive as possible. fed under perfect conditions except

quired and the manure produces turned to the land to make it as highly productive as possible.

What is considered stock keeping in it truest sense of the word is where the stock on the farm is bred on the farm and finished there or sold to be finished elsewhere, according to the surroundings or the capacity of the farm. In either of the foregoing the work must be laid out with a view of economically and expeditiously feeding as many animals as is possible to a given acreage. On too many farms stock is kept merely as a by-product, either to consume what would otherwise be wasted or more easily work down straw into a slightly better article than that rotted alone. On such farms the stock is not likely 40 be of a cle than that rotted alone. On such farms the stock is not likely to be of a very high class, nor are such bulky foods as straw and corn fodder likely to bring much profit.

Finishing a bunch of steers for the block is usually the work of a few months, depending upon their condition during the time kept at high pressure or on full feed, hence they can stand more highly concentrated food and food that will heat the blood will not necessarily injure them to any extent. With the young animal the case is entirely different. Care must be exercised to build up the health during this stage, and more skill is required if the best results are to be the aim. The ration will have to be more bulky and at the same time highly nutritious, easy of Finishing a hunch of steers for the will have to be more bulky and at the same time highly nutritious, easy of assimilation and at the same time sufficiently varied to supply growth of bone, blood, fiesh, etc. A steady daily growth must be attained. For this there is no food that equals roots. They are no other means can as quick a growth be attained, nor will other food bring young animals into as good condition for feeding, neither will any ration without them keep the young animals advancing in growth and fiesh, without the drawbacks that will occasionally

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linited States or Canson, on apper-cation.

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follow the feeding of other foods, such as grain, etc.—[Frank R. Shore, Middlesex Co, Ont.

#### ONTARIO DAIRY PRODUCTS.

The recent marvelous growth of the dairy industry in Ontario is apparent from a glance at the statistics com-piled by the provincial bureau of in-dustries. The value of the cheese plied by the provincial bureau of industries. The value of the cheese product has increased steadily each year from \$7,700,000 in '91 to 9,500,000 in '94, 11,700,000 in '97 and 10,300,000 in '98. The number of patrons supplying cheese factories likewise increased from 45,000 in '91 to 65,100 in '98. This marvelous growth has been made in the face of a steady decline in the value of cheese to the amount of 1½c p lb since '92. Of the \$10,250,000, the value of the cheese output, patrons received \$,417,000 for milk or an average of \$1.5c p 100 lbs milk.

Equally as surprising is the growth

for milk or an average of 61 1-5c p 100 lbs milk.

Equally as surprising is the growth of the creamery or butter industry. The value of creamery made butter in '93 was \$574,000, '95 868,000, '96 1,101,000, '97 1,404,000, '98 1,632,000. The popularity of the creamery movement is shown by the yearly increase in the number of patrons as follows: '93 7900, '94 8300, '95 8700, '96 12,200, '97 18,900, '98 22,700. As with cheese, butter shows a steady decrease in value per lb, from 21%c in '93 to 18%c in '98. While the value of the butter product was \$1,632,000 in '98, patrons were paid 1,534,000 for milk for making it. Details as to the growth of the darry industry of the province are shown herewith:

Year	Milch	Pac- Milk Cheese ter Creatories used made made er Millions pounds					
1898.	.965,000	1157	1374	128	9	282	
1897.	.000,000	1161	1456	137	7.7	214	
1896.	.920,300	1147	1108	104	6	170	
1837 .	. 588,200	1164	1174	109	4.5	135	
1894.	834,200	1011	1023	97	3.1	115	
1893.	803,600	. 897	912	86	2.7	74	
1892.	787,800	856	984	91		-	
1891.	.773,200	223	865	82			

Growing Extra Large Tomatoes—If plants are wanted larger and more forward than ordinary loxed plants, order from a potter pans s in deep and 8 in wide at the top and 6 in wide at the bottom, inside measurement. Lift the plants with a larger amount of soil than when boxing them, and set one plant in each pan, fill with very rich soil to within ½ in of being full when armly pressed down. Plants so treated to be grown to any size defined. can be grown to any size desired. I have often grown, them IS in high and branched out IS in wide, and loaded with 8 or 10 fair-sized tomatoes. By carefully turning them out of the pans and planting them in the open ground they will grow right along and ripen their fruit-very early. As soon as the large plants show signs of falling for want of food, water them with liquid manure.—[S. H. Mitchell, Ont.

Pigs with Rheumatism should be ed with 2 to 8 oz epsom salts, according to size of the animal. Give also 10 to 20 grs nux vomics three times daily to overcome paralysis of the muscular coats of the stomach and intes-tines. Give in the food.—[Dr J. II.

Grange Installation-One is Apple Grove of Southold township, now nearly 25 yrs old. Last month the Dominion master, Jabel Robinson of Middlemarch, installed the officers as follows: Master, Frank Hunt of St. Thomas: lecturer, W. Webb; necretary, James Futcher of Middlemarch. The newly installed master gave an address on the work of the grange, and pointed out the remarkable advance it had made in the United States the past year. A number of farmers organisations had sprung up in that country, professing to do great things for farmers, but they had all disappeared, and the old grange had arisen from its athes and had the pror '27 of a great future. The farmers of Canada would again gather to its fold because there in Apple Grove of Southold township,

must be some organization in which the farmers could take united action to protect their interests. The farmers had deserted the grange at the instiga-tion of men who boomed other orders to boost themselves into position and power. The only hope of the farmers was to reopen the grange halls and improve the grange as the lessons of the past had taught.

The Wolf River Apple resembles the Emperor Alexander somewhat and is said to be a seedling of that variety. said to be a seedling of that variety. The fruit is hardly as large as the Alexander, but is of little better quality. The color is also somewhat darker. The fruit is large, rather roundish oblate, rather whitish yellow skin shaded with light and lark red and crimson where fully exposed to the sun. The quality is fairly good. The season from Oct to Jan and even later in northern sections. The tree is vigorous and hardy, does not bear as early as the Alexander, and gives good crops on alternate years.—[W. S. Blair, N. S. School of Horticulture.

Fertilizing Mangels-The past 3 yrs 27 tests have been made of fertilizers for mangels, at the Ont agricultural college, Guelph. Unfertilized land averaged 19½ tons p a and that treated with nitrate of soda 24½ tons. The extra mangels cost, in money spent for fertilizers, a little over 73c p ton, pret-ty good returns for the money.

Hardy Apples Along or summer, Yellow Trans parent. Duchess. Red Astrachan; ear parent, Ducness, Red Astrachan: ear ly winter, Fameuse, Scarlet Pippin, Mc-Intosh and Wealthy: late winter Scott's Winter, Salome, Seek, Golder Russet, Yellow Belleville, Ontario, Tal man Sweet and Canada Red.—[W. A Whitney, Ont.

The San Jose Scale is with us to stay. The kerosene-water emulsion, one part oil to five of water in summer and 1 to 4 in winter, is a specific for its destruction, says Prof Balley.

The Caw's Tail doesn't bother a cer-tain Holstein dairyman, while milking, that I recently visited. Stepping in his stables I noticed that just out of reach of my hat, about 7 ft from the floor, of my hat, about 7 ft from the floor, above the cow's hips. a No 3 wire, drawn tight, ran the whole length of the stable. On this, in the rear of each stall, was a small ring or a harness clasp, from which hung a stout cord attached at its lower end to the cow's tail at about the point where the brush or long hair begins. This cord was long enough to allow the animal to switch with comfort. The device answers the purpose, but the sight of a stable full of cows with pompadour tails is sure to provoke a smile.—[M. G. Kains.

The first thing in the way of attention a young lamb wants is to see that the ewe's teats are free from all obstruction. Clip the wool from the udder and start the milk flow with the fingers. If a young ewe refuses the lamb to suck, put her in a narrow lath stanchion and hold the lamb; a few trials will be enough and the ewe will take her lamb. take her lamb.

A large majority of feeders make a mistake in holding fat cattle that are

½ or 2-3 of them fat that could be shipped at any time. Very few will ship them out as they are not all ready, and they hold on to the good ones until the entire bunch is ready. Fat cattle should be shipped as fast as ready. By doing so the risk is divided. The cattle unsold have a better chance to improve, and there is more profit to be made in this way on account of the small margin there is in keeping matured steers, as this class of cattle make little gain compared with half fat steers.

make little gain compared with hair fat steers.

The south-central part of Manltoba, including 12 counties, had 3148 a in potatoes last year and produced an average yield of 194 bu p a, or 610,700 bu. We doubt if any other section, except around Greeley, Col, can show such a record. record.

While the increase in the number of hogs more than 1 yr old kept in Ontario the past 6 yrs is only about 34,000, statistics as to the number under one year show an enormous increase, from 765,659 in 1822 to 1,376,000 in '99, or almost twice as many. Somebody must be eating pig!

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thoroughly live granges of the 1900 that have been organized in the Dominion

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#### Plants and Flowers. WATER PLANTS.

Water byacinth, water ponty and parrots feather make beautiful plants for the lawn when planted in tubs of water. A small root will fill a washtub before the season is over and blossom every day for months. The tubs should have a thick layer of rich soil with a sprinkling of soot and then be filled aimost full of water.

almost full of water.

The plants usually need a small weight fastened to the roots to hold them down at first, but after once becoming established they need nothing more except to have the water replenshed occasionally. They grow rapidly and throw out new roots with which they anchor themselves to the soil.

The water poppy has saucer-shaped yellow blossoms with a darker center which are freely produced all summer, opening in the morning and closing at midday. Water hyacinth has large spikes of like-colored flowers which sparkle as if sprinkled with diamond dust, they are held high above the folinge and are so delicate looking that one would expect a breath to crush would expect a breath to crush

them.

Parrot's feather is more intended for edging tubs containing other water plants than for use glone. It grows in frailing form of feathery appearance and hangs over the edge of the tubs, making a very attractive border. Small parts of these plants can be kept over winter by planting them in a dish with soil and water. They should not be encouraged to grow much, as they would quickly outgrow the dish, but simply be kept alive for use in spring.—[Marian Meade, III. Meade, Ill.

#### WINTER FLORAL NOTES

Bulbs in pots, moss or water should be kept in the dark until root action is well under way. If this is not done and the pots or hyacinth glasses are at and the pois or reaching masses are at once placed in a strong light, the exciting conditions cause the top to start freely. Having feeble root action the plant makes a very short growth of both leaves and flowers.

The days are lengthening and the sap

The days are lengthening and the sap will move faster and more water will soon be required. It is rather soon yet to repot anything, but a stock of suitable soil should be provided.

See that the drainage around the bulb beds and perennial borders is kept free, and that no more fee be allowed to accumulate than can possibly be avoided, lee is very apt to injure bulbs as they push themselves along in the spring.

To do their best in the window garden, plants must be arranged with some regard to their needs for heat or cold, sunshine or shade.

Give the plants in he window gardere the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants in the window garderes are supplied to the plants are supplied to the plant

Give the plants in he window garden a weekly spraying, if possible, as dust will accumulate on the leaves with surprising rapidity.

If farmers knew how much the planting of trees and ornamenting the grounds around a home added to its value they would do very much more in this direction. -[William Rennic,

The Giant Flowered Geraniums, in tigor and habit of growth, size, quality and quantity of bloom and radiance of and quantity of bloom and radiance of coloring show great improvement over a rietles previously introduced. They are compact and pleasing in manner of growth with large healthy foliage. The flowers are perfect in shape, being round and in some cases beautifully supped produced in immense trusses and with a freedom truly wonderful. I. Childs has introduced some beauties which he has named after the Mater.

Spent Hops from the brewery easy to get in many localities, and like commut fiber may be used in the garden. Florists sometimes used in the gar-den. Florists sometimes used them for plunging small pols in, getting them theaper than any other suitable mate-rial and they are also used as a means of furnishing leatom heat.

Perennial Phlox is among the most satisfactors of all har ly perennials and unlike most hardy plants has a prolonged season of bloom. Having clean follage and growing 2 or 2 ft high, the flowers are produced in huge terminal panicles from June to frost. A most

heautiful continuous display is kent un all summer. The varieties are legion and of all colors.

A Pretty Hanging Basket for the plazza is easily and cheaply made from an old ox muzzle. Fasten three strings or wires to the rim to hang it by and



line the sides with thick pleces of moss from the woods. Fill the center with earth and set in some plants or put in a few seeds. For indoor use it is better to procure one made of crockery or to put a pot and saucer inside the muzzle to prevent the water dripping on the floor. For a winter basket there is nothing better than the common pink oxalls or a few slips of wandering Jew (tradescantia) and by geranium. Nasturtiums make a pretty basket in the summer, or the summer flowering oxalls, such as shown in illustration. These are easily raised from seed, or the builts may be dried off in the fall and planted out the next spring line the sides with thick pieces of moss out the next spring

Asilba Japonica makes a beautiful Easter plant and the dormant clumps of roots can be bought very cheaply, When given plenty of moisture and only when given picinty of mosture and only a little heat they will soon push forth their handsome foliage and fine feathery blossoms. They need abundance of water, a lack of which would mean comparative failure with the plants. The roots also should have a good soaking in a tub of water before planting

The Golden Wonder Nasturtium is a brilliant yellow with a touch of red at the base of the petals. The plant does not form seeds, but is propagated readiiv from slips. They are especially fine for the window garden.



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To be successful in any occupation in this wide world you must take a pleas-



ure in it, and courage and a determined mind. I have not done as well as many who live in proxlmity to markets and can sell anything and every-thing they raise. In So Dak our sta-ple crop is wheat and the uncerfor raising a good crop every year,

w. J. CASSON.

cropy
and the uncertain price we will receive for it, after we do raise it, do not always give it a rosy hue, but I am well satisfied with what I have accomplished. I have often been asked how I got through the hard times so well when so many others failed. To prosper, you must be intelligent, ambitious and attend strictly to your business, get all you can honestly and keep all you get. Of most importance is good management. Never try to do more than you can do well,

It is easy to say, keen out of John.

It is easy to say, keep out of debt, but whoever knew of a man who began on nothing, as most farmers do, and ever

It is easy to say, keep out of debt, but whoever knew of a man who began on nothing, as most farmers do, and ever became worth much without going into debt? It is not going into debt? It is not going into debt for things needed that busts a man, it is for the things not needed. I have found out that a wagon paid for rides easier than a mortgaged carriage, and a yoke of oxen paid for was safer to drive than a high-priced mortgaged team of horses. I took Horace Greeley's advice and left my home, Rochester, N Y; in May, 182, and came west. Was then 21 years old. Settled on government land in Dak. This part of the country was just beginning to settle, and it did not take long, for by the spring of 1883 vacant land was quite scarce. The verdant prairie teemed with activity and as capital when I started \$100 cash and a yoke of oxen, with a good supply of energy and ambition to back it.

When I began turning the virgin sod. I was obliged the first year to double up teams with one of my neighbors. I broke 25 a of sod that year. The secend year I hought another yoke of oxen and broke 90 n. Raised 480 bu wheat on the first year's breaking; the third year raised 1490 bu wheat and 600 bu cats. After 7 yrs had 300 a broken and into crops. Rented some land, to relieve me of so much work, and farmed about 160 a myself with varying success, according to the seasons. We never had a failure of crops in Day Co. So Dak, on account of drouth or hot winds. Providence has been very kind to us in the farst gener.

never had a failure of crops in Day Co, So Dak, on account of drouth or hot winds. Providence has been very kind to us in that respect.

The load was heavy and there was lots of up-hill work starting in farming for an inexperienced hand in a new country. If I had to do it over again my success would be far greater. Succeeded without putting a morigage on the land, for it has turned-out to be the curse of this country. As long assome people can buy on time they run in debt, in hopes of big crops and good prices, but when both fail, so do they. Their land fell to the loan company, and they were dashed on the rocks of despair.

despair.

I managed to pay cash for everything I have bought the past 7 yrs, so there is quite an item saved. Six years ago I bought 180 a joining my land for \$1000 cash. Four years ago I bought my brother's 160 a and stock for \$1250 cash. That gave me 650 a all clear. I was single, so was obliged to do all the work myself, unless I hired it done—and bired help is poor property in this country. despair.

We keep 100 Plymouth Rock and White Leghorn fowls, and find them prolitable, for we manage to keep the house expenses from the sale of poultry, eggs, meat and garden. Crions pay well, and in '98 we sold what, we raised at \$1 p bu in trade, and last fall received 75c. In '99 we kept the garden and poultry accounts separate, and they amounted to \$127. If I was obliged to pay even that small amount out of my wheat crop it would take over 250 bu. It is far more profitable to have a diversity of crops, so if one falls you can fall back on another. We see many who call themselves farmers, going to town buying meat, butter and even eggs, and then wondering why they are not better off. It is obvious every farmer ought to raise what he consumes; then he would raise less mortgages.

I have kept a diary for 17 years so I We keep 100 Plymouth Rock and White

gages.
I have kept a diary for 17 years, so I I have kept a diary for 17 years, so I know just what I make and pay out and every bu of grain I raised. The last 11 yrs I raised 23,712 bu wheat and 2520 bu flax. I had one good man on my farm all those years, who has watched everything closely and made his time count. I just made him get right out and hustle at times early and late. I have tried and succeeded fairly well in posting him on farming; made him read agricultural papers instead of novels, attend state fairs, also the Chicago world's fair. He can now retire and take it easy after 18 yrs of hard work and experience, while by economy, perseverance and care I accumulated about \$10,000. I also carry \$7000 life insurance. What success I have attained I attribute to keeping out of debt and by putting business methods into my work, for successful farming requires brains as well as muscle.

A Mortgage Lifter's Advice-Do not buy a farm unless you like farming. for to be successful you must have a fondness for it. Do not buy unless you like the location, for if you are dissatisfied and wishing to move to fondness for it. Do not buy unless you like the location, for if you are dissatisfied and wishing to move to parts where you think you will be more contented, you will find yourself handicupped. But if when buying a piece of property it is necessary to give a mortgage you should regard it as your worst enemy, and one that will vanquish you if you do not use every means in your power to annihilate it. To pay the mortgage, choose some special branch, let your situation and inclinations decide what it shall be. If it is cattle, resolve firmly that the whole proceeds from this branch shall go to the mortgage; regard it as money set aside for a distinct purpose, and money you should not touch unless in a case of dire necessity. If you choose cattle, you will find it both economical and convenient to keep a few hogs and some poultry. These with other reansto add a few dollars should buy grocerles, clothing, etc. If you choose hogs as a specialty, keep a few cattle and some reultry—the cattle to cat fodder and rough feed that would otherwise be wasted, the poultry to eat grain that that will be scattered more or less about every farm where grain and stock are kept. These, with other means, should keep up expenses. I always plant a small piece to melons, and realize enough from it to nearly supply a family of four with sugar and flour ways pinnt a small piece to meions, and realize enough from it to nearly supply a family of four with sugar and flour the year round. Every farmer should have a good garden, so the family can have pienty of vegetables and some to spare. A farmer should never buy anything he does not need, because it is clearly to be about a per a state of the characteristics. anything he does not need, because it is cheap, he should not incur a store till to be paid some time in the future; he should not spend his time foolishly, but should do something each day to more than pay expenses, not forgetting to take some recreation for himself and family.—[R. E. Thorp. Fayette Co, Ia.

Let There Be Light-The average farmer in this country does not yet squarely believe in that principle as an aid to himself and his farm. He has too little sympathy for agricultural schools or for organized methods for a better agricultural education. cash. Four years ago I bought my brother's 150 a and stock for \$1250 cash. That gave me 650 a all clear. I was That gave me 650 a all clear. I was inkele, so was obliged to do all the work myself, unless I hired it done—and live the poor property in this country.

Four years ago I married and have succeeded admirably well ever since, and now we have two bright boys to make home happy. I always take quite as interest in and have a good garden.

thing we call farming can be taught to

is to understand the principles of law. thing we can farming can be taught to their children from books or schools. The American farmer will admit the necessity of a special intellectual training to be a lawyer, doctor, preacher, editor, merchant, or mechanic, and his sacrifice for the education of his children in everything but farming is with page and then, by practice, learn how out parallel in the history of any other. out parallel in the history of any other to apply that principle to produce manation. He sees clearly that if his boy terial results,-[Ex-Gov W. D. Hoard,

### AN OHIOAN'S REMARKABLE ACHIEVEMENT.

Our Recent Investigation of this Article was so very Satisfactory, We Have no Hesitancy in Endorsing the Same as

#### "JUST WHAT ALL OUR READERS NEED."

A genius of Cincinnati has placed on the market a new bath cabinet, whereby anyone resting on a chair within, enjoys the famous Turkish, hot vapor or medicated baths 't home for 3 cents each, heretofore enjoyed only by the rich at public bath rooms, health resorts, hot springs and sanitariums. These baths are celebrated for their marvelous cleansing, curative, purifying and invigorating effects upon the human system, and this invention brings them within the reach of the poorest person in the country.

Clouds of hot vapor or medicated vapor surround the entire body, opening the millions of swent pores, causing profuse

A Hagan, Richitedd, Mo, afficted if years with rheumatism in its worst form, was cured in six days. L. B. Westbrook, Newton, ia afficed 3 for their marvelous cleansing, curative, purifying and invigorating effects upon the human system, and this invention brings them within the reach of the poorest person in the country.

Clouds of hot vapor or medicated vapor surround the entire body, opening the millions of swent pores, causing profuse and recommends it to all suffering ladies. After examination, we can say this is a genuine cabinet, with a door, handsomely and durably made of best materials, rubber lined, Mo, afficted if years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, Newton, ia afficted 45 years was cured in six days. L. B. Westbrook, nearly and kidney troubles, and kidney trouble. An old railroad man. O 1. Precman, Sparta, O, affilted 45 years was cured in six days. L. B. Westbrook, nearly and kidney trouble, and kidney



#### IT IS IMPORTANT

to know that the makers guarantee results, and assert positively, as do thousands of users, that this cabinet will clear the skin, purify and enrich the blood, cure nervousness, weakness, that tired feeling and the worst forms of rheumatism. (They offer \$50 reward for a case not relieved.) Cures sleeplessness, neuraligia, headache, plies, dropsy, eezema, malatia, all blood and skin diseases, stomach, liver, kidney, bladder, nervous troubles, and all aliments peculiar to women it cures the worst cold in one night and breaks up all symptoms of la grippe, pneumonia, fevers, bronchitis, and is realized household necessity—a god-send to every family.

To pacase the ladies, a face and head steaming attachment is furnished if desired which clears the skin, becutifies the complexion, removes pluples, blackhads eruptions, and is a sure cure for skin diseases, catarrh and asthma.

ALL OUR READERS

perspiration, drawing out of the system all impure saits, aclds and poisonous matter, which, if retained, overwork the heart, kidneys, lungs and skin causing disease, fevera, debility and singistness. Astonishing is the improvement in health, feelings and complexion by the use of this cabluet, and it seems to us that the long-sought-for natural method of curing and preventing disease without medicine has certainly been found.

The makers inform the writer that more hand 107,851 of these cablinets have been sold since August, and showed letters from thousands of users, who speak of this cablinet as giving entire satisfaction. Since this invention bathtubs have been discarded, for it gives a better bath for all cleansing purposes than soap and water, and as there are millions of homes without bathing facilities, it seems this would be a good article for our readers to take the agency for.

Thousands of remarkable letters have been written the inventors, and to our knowledge persons who were full of drugs and nostrums, and have been given up to die, have been restored to perfect, robust health, to the astonishment of their friends and physicians.

Dr Franklin Moore of New York, Dr E. I. Eaton of Kansas and hundreds of our best doctors have given up their practice to sell these cabinets, because they say they benefit humanity more than drugs, and are all that is necessary to get well and keep well.

Congressman John J. Lentz, Mrs Senator Douglas, itt Rev Bishop J. I. Spalding, Peoria, Ill, Rev John A. Ferry, Brooklyn, N Y, Rev C. M. Keith, D D.







[March :

# THE HOME CIRCLE

#### THE POINT OF THE HOOK.

At a bend in the stream where the willows grew tall.

And the waters can slow and were

where there came to our ears the low sound of a fall.

And we heard through the pines the

soft sweep Of the sweet summer wind, there we dished for the front My young nephew, Jack Sully, and I I did not each a fish but the lad pulled

them out.

Till I, envious sail with a sigh

Jack drew his bait.

Just a glance and 'twas back in the

. Then I fell in a muse and neglected to tish.

As an angler I failed of success, But to be angled for I was all one could wish.
And to having been caught I confess

Ouite a number of times. there

I had, up to that period, known.

Set my pulses a-flutter, my brain in a whitl.

And my heart bowing down at her

And my heart bowing down at her throne, he accepted my homoge and helped spend my cash. She repaid with a smile or a look, hen she married another—my heart went to smash—

She had well hid the point of her hook, There's been real estate mea, each with

promise of wealth,
Patentees having each a sure thing,
Who have angled for me with precision

and stealth. And who, at the right moment, would

iling
Their balt to this gudgeon, seemed they knew I would hire

So their bait east they down in my ninik.

And they caught me, and so did some brokers, all right, For each man hid the point of his hook.

There's for me consolation. I'm not all alone Than the fishers, the fished-for are

more. It's a fact-when before them a fine

redt is thrown
There are always keen biters, galore
Among tien and women, and the rea-

son they do, to the foolish young trout in the broak

Is the fact at they cannot, from their

point a view.
\*Neath the pait see the point of the book.

W. T. B.

Old Coins-The coin described by J. ".Ontario, is an English half-penny, worth only a few cents. Copper cents of 1738, 1620 and 1820 are worth five to of 1638, 1639 and 1839 are worth five to ten cents each, according to their state of preservation. The cent of 1853 is com-mon, with little or no premium. The English penny of 1597 is very common, so are the cents of 1800 and 1858, the three-cent piece of 1865 and the large cent of 1854.

#### THIS WILL INTEREST MANY.

F. W. Paykhurst, the Boston publisher, says that if any one afficted with rheumatism in any form, or neuraigis, will send their address to him at Box 1501. E-ston, Mass, he will direct them to a perfect cure. He has nothing to sell or give, only tells you how he was cured. Hundreds have tested it with success.—[Adv.

#### "FURTHER ON."

The last train on Saturday night had disappeared in the distance, when a middle-aged woman who had alighted therefrom turned to the station agent, and with a look of perplexity on her face asked, "Is this Berkley Station?"
"It is, madum." "Are there two Berkleys?" "Not that I know of." "But this does not look natural." "Can't help it, ma'am, this is Berkley, R I, fast 'crough."

"Oh! The woman's eyes were black as nothereby and they woman as wife

as midmight, and they wore a wild, excited expression as she exclaimed, I thought I was going to Berkey, Mass. I read the name at the station where I bought my ticket. I had

Till I, envious sail with a sigh
"I am tired, Jackie dear, the monotony's great
Here I sit without ever a bite.
I have not caught a fish, while you have six or eight.

Now please cast on this subject a light."

From the bed of the stream Nephew Jack drew his bait,
Instead of the stream Nephew the tax of the stream of the taket agent. 'Can you tell me where to find a hotel?' "Can't, none in these parts." "Any one who would take a lodger? 'Can't tell; I don't know. The man leisurely lit a traveler desperately. 'Four miles away.' away.

Just a glance and 'twas back in the brook.'

My dear uncle." he said, "you'd e'er sit here and wait.

If you don't hide the point of your hook."

The woman turned away and proceed up "to street, meeting a man of whom she asked the question which was becoming of vital importance to hook."

The woman turned away and proceed up "to street, meeting a man of whom she asked the question which hook."

The woman turned away and proceed up "to street, meeting a man of whom she asked the question which hook."

Portuguese and unintelligible. After Portuguese and unintelligible. After further travel two more men were met; these proved to be French and did not understand English. At last a nice-looking house with green blinds appeared in sight, and hope revived in the heart of the homeiess traveler.

Reaching the door she knocked, and

Quite a number of times, there was the heart of the homeless traveler, once, young and green,
I contracted a ten-dollar book.
For the agent who caught me did up his work clean.—
He had hidden the point of his hook.
On another occasion the most charming girl that the first tension is a stranger in my life." "I have kept a great many at my home, and it seems to me strange that anyone can turn a person from their door at this hour." a person from their door at this hour."
The hands of a clock visible from the open door pointed to a quarter to nine. About two miles farther on you will find the Episcopal minister's, maybe he will take you in."

My good woman, when you reach heaven, may you not be asked to go farther on." These words seemed forced from the translated the settlets.

heaven, may you not be asked to go further on?" These words seemed forced from the traveler's lips without any volition of her own, but the two women watched her go forth into the night without relenting. She reached the road, so ing. "I must walk to keep warm, he whither shall I go?"

The time of the year was January, the night moonless, the roads slippery with ice. Suddenly a guideboard caught her eye, the black lettering made visible by the glistening ice. The inscription read, "I miles to Woonsocket." There was cause for hope.

At Woonsocket It would be possible to

inscription read, "7 miles to Woonsocket." There was cause for hope,
At Woonsocket it would be possible to
find shelter, and a seven-mile walk
was better than 50 prospect of a
bed that night. She had a feeling that
the road was one on which she was not
likely to miss her way, and with a
brave heart she went forward at a brisk
walk. All sense of four left her. She walk. All sense of fear left her. She was a firm believer in the protecting power of our Heavenly Father, and her ability to endure a long walk was above

ability to endure a long walk was above the average.

After three miles were passed she heard a hall in the darkness; a team stopped. "Where are you going, my good woman?" "Woonsocket." "Woon-socket, the devil!" "No, Woonsocket,"

"But, my good woman, it is four good miles." "I can't help that, I must go there." "Have a ride?" The woman accepted the invitation without hesitation and was helped up onto what seemed to be some kind of a peddler's wagon. Her new friend tucked the buffalo robe sround her and drove on in silence. At last he said.

last he said.

What are you doing on the road at this time of night? "Looking for Christians." Again she had seemed to be impelled by some spirit not her own. By gum! I want to know what all of this means. The woman told her story soberly. The man listened, and asked, "Are you not afraid?"

She replied, "I am well protected." She thought of the Higher Power. Her listener said "U-m-m" with emphasis. "What are you, anyway?" "A temperance lecturer" ance lecturer

Just then a rough place in the road set the lager beer bottles with which the team was loaded to jingling and both the driver and his companion were silent. She was thinking of the strange fact that she, a temperance lecturer, should be dependent upon a vender of beer for the only Christian help which

beer for the only Christian help which she had received.

Her companion broke in upon her reverie with, "By gum, mum; it's too bad, but I'll tell ye what I'll do. I'll tack ye in sight of the Woonsocket hotel; ye'll get in there ony time o' night. The board's three dollars the day, but on Monday h yer pocketbook's small ye can go to the Globe. It's a factory corporation. They keeps travelers for three dollars the week with pianny, carpets and all that."

In due time Mike Bryne lifted his companion down from her high seat, pointed out the hotel in question, bade her "Good-night and God bless you, mum," and at 1 o clock on Sunday morning she knelt beside her comfortable hed and prayed for the brother" who had proved her good Samaritan in her hout of need. She did not need to test the hospitality of the Globe corporation, and has never met Mike Bryne since.

foration, and has never met Mike Bryne since.

In her home beside the sea she still gives shelter to those who ask. She has often been told by charitable workers that she does wrong to entertain tramps, but she has never been injured by so doing.—[Mrs Caroline Oakley.

#### THE SPIDER AND THE FLY.

Oftentimes an objection is raised because the usual amusement introduced "socials" arranges so that two people are placed for a share of the evening in each other's company, although they may not be at all congenial and perhaps entire strangers, occasionally not even having been introduced. This may be remedled by the formation of groups instend of couples, as is the usual rule, before serving refreshn ints

usual rule, before serving refreshnents.
There should be one card for distribution marked "Spider" to five of the "Flies," which are numbered respectively from one to five. The Spiders should be chosen wisely, and it is well to have them appointed before distributing the cards. Then the Spider cards need not be distributed until the numbered or Fly cards are all out.

The Spiders are expected to "catch" five Fles with numbers from one to five And the success of the entertainment depends la gely upon the Spiders, who should be both socially inclined and well acquainted with the participants. Prizes may be offered to the most and least successful Spider who catches first and last his group of Flies.—[Lilian Searle.]

Why are horses in cold weather like meddlesome gossips? They bear idle

#### DISCOVERED BY A WOMAN.

I have discovered a positive cure for all female diseases and the Hea. It never fails to cure the piles from any cause or in either sex, or any of the diseases pscullar to women, such as icucorrhora, displace-ments, ulceration, granulation, etc. I will gladly until a feel lox of the remedy to every sufferer. Ad-dress MRS. C. B. MILLER, Box 119, Rokomo, Ind.

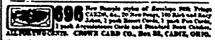
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# Saved Her 🧍 Daughter

The first critical period in a woman's life comes at the passing of her girlhood. How to preserve the daughter's health at this crisis is the problem that confronts every mother of girls. Mrs. J. M. Riggs, of Carterville, Mo., solved this problem. She savs:

"My daughter Josie during the winter of 1897-93 suffered a complete break-down in health." She was thin and paie, had no appetite, and was so weak that she was unable to walk to school. Those who knew her condition said that she was in the first stages of consumption. Shortly after school closed, on the advice of a neighbor, we began giving her Dr. Williams Pink Pills for Pale People. The effect on her condition was marvelous. Beforeshe had taken half a box her condition was improved, and she kept on gaining appetite, strength and flesh until sho was entirely well.

"She took three boxes of the pills and to-day there is not a healthier, more robust looking girl in Carterville. She is fleshed and healther than ever before in her life."

MRS. J. M. RIGGS.

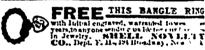
Subscribed and sworn to before me a notary public, this loth day of October, 1894.

WM. Wolcott, Notary Public.

From the Journal, Carterville, Me.

From the Journal, Carterville, Mo.

At Druggists or direct from Dr. Williams Medicine Company, Schenectady; N. Y. 38 cents per box; 8 hoges \$2/4.



256 that tells all about Magic Landers terms and Strreptices—how to PACE eperate three-bow much they cost BOOK —bow men with small capital cas BOOK make sweety mith them, beat free, McALLISTER Sig. Options, 49 Nasamu St., N. Y.

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EM OF WOMEN to represent us in their own - 'a var duties to take charge of solicitors and attend to illections. Me INVESTMENT REQUIRED Send start for policyton Titals. (9-077443712 (U. 22954712); (Illiand



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\$8 PAID mer 100 for distributing sample of Wid

#### Young America.



"NO SOOTHING SYRUP, THANK YOU."

#### THE TRUANT.

Fred Johnson is a truant: He ran away from school To spend the day in skating Upon the factory pool.



He met us going homeward And bragged about his fun, But when the teacher neared us I noticed that Fred run.



Next morn into the school room Fred entered looking blue. He knew he would be punished— That no excuse would do.

Our master is a kind one,
And loved by all the school,
But when a boy plays truant
A whipping is the rule.
MARGARET LEE.

Coward-If, a girl doesn't like to be kissed and tells you so in plain English, respect her wishes and she will respect but he more for it. If you want to have a big time, get one of Water Lily's be. One geason I never got slapped for listing a girl is because I was too big a coward to try it. All I can say is, bys, respect a lady and keep your place.—[Mud. Soocks.

TO CURE A COLD IN ONE DAY e Laxative Bromo Quinine Tablets erists refund money if it falls to curo. W. Irove's signature is on each box, 25c.

#### The Struggle.

#### A WOMAN'S DAILY BREAD.

Please answer this inquiry in your next paper: I cannot go from home to work. Can you or any of the readers of F & H suggest any way a woman

work. Can you or any of the readers of F & H suggest any way a woman can carn money to support her family and be at home with them?—[Mrs P. J. T.

\*\*This whole question depends on what you are litted by nature or experience to do, and your ability to successfully supply the demands of others in your particular line. Some of the cases that have been directly brought to our attention in which women have actually earned a living at home are the following, and while you individually may or may not be able to follow any one of them, they must be suggestive to a thoughtful woman. One of our readers raises sheep and sells mutton and wool. Quite a number earn a modest living from poultry. Others combine poultry, garden stuff and sewing for neighbors. One woman, a particularly neat sewer, gradually worked up a little kindergarten sewing school where a certain time every day the neighbors' children meet to learn. Some of these women have started in other things and made failures until they hit where a certain time every day the neighbors' children meet to learn. Some of these women have started in other things and made failures until they hit upon the thing they became successful in. Many women have established quite a market for some special line of cooking in which they excel, and combine this work with chicken raising or sewing. One woman left with two or three children and no assets hired a small rent and two garden spots. She sold quite a lot of garden stuff and sewed carpet rags and did mending and plain sewing, and got a little besides for taking care of a little church near her and ringing the bell. Thus she brought up her children and lived at home. Perhaps some of our readers will have other suggestions to offer.

#### THE PURSE COMMON PROPERTY.

Were it not for its serious features, the letter of Veni Vidi Vici would be amusing indeed, so odd and anomalous does it seem that there ever should be any wrangling over the family purse between husband and wife. Wife begging husband for needed money, husband refusing her the same! Preposterous! My wife and I lived together 20 odd years and in that time the pocketous! My wife and I lived together 20 odd years and in that time the pocket-book was but common property—a mutual fund from which both drew without stint when occasion required. When either went to town he or she drew from the family bank as demands dictated; nor was either cross-questloned when home as to the amount or nature of expenditures. In all that time my wife never asked for money but she got it if I had it, and now that she is gone, how glad I am that such is the case, for were it otherwise, then would guilt be "my midnight chamberlain with fingers bloody red." I do not say this by way of self praise, that we were better than other people; but simply that wo regarded such action as but a common bounden duty to each other. Thus we lived and thus we struggled together, teaching in the winter and farming in the summer, for when we were married we both were in the very depths of poverty's vale, so much so that I was forced to buy her winter shoes on credit. When she went away—I can't say died—we owned a good farm, well stocked, with a \$2500 residence. I don't say this boastingly—far be such a thought from me—but simply to show that our common fund family financial system was not a ruinous, disastrous one.

If there be one among the husbands I now address brute enough to deny his wife necessary money from the family

If there be one among the husbands I now address brute enough to deny his wife necessary money from the family fund for her personal comfort or pleasure, then let him put on sackcloth and go hide away in the dog kennel—he is not a man. Let him write 'n his hat as a motto one sentence from Veni's letter, namely: "No wife can love a husband if he be mean and stingy," words as true as holy writ. O wives that are too delicate to ask your lords for needed money, ye are but wingless angels, strayed from paradislacal realms, too tender for the stern realities of this world. O, husbands that deny your patient wives the needed money that justly belongs to them, ye are but bete noirs—black angels from Satan's plutonian shores. You are not man and wife in the true sense of the term. You are but marely suspicious, distrustful

members of a loveless, souliess corporation whose stock in a true matrimonial market would not bring one cent on the dollar, even in Confederate scrip. Reform or disband and go home to your respective parents, asking for forgiveness for your unholy travesty on the sacred institution of marriage.—[Matt Van.

Homely Economies-Our woven wire cot had given way at each end, so that the loose ends of the wire tore the bed-ding and we successfully "patched" it as follows. A piece of strong burlap (in ding and we successfully "patched" it as follows. A piece of strong burlap (in this case it was part of a gunny sack) as long as the cot was wide was closely tacked to the wooden frame with carpet tacks, the burlap was stretched snugly down over the loose wire and fastened, where the wire was sound, with strong wrapping cord, a large needle being used to go down and up through the wire and burlap. Before this there were thick pieces of carpeting laid on the torn wires, else the burlap would have benefited little. Each end was fixed in the same way. The cane back of a small rocker gave out at one side and was mended with a darning needle and carpet chain in the darn stitch, going entirely across the chair, in and out through the open work of the cane and around the wood at each side and at the top and bottom. Always have the thread doubled. Wit, a full length crochet tidy on the chair one hardly sees the mending.—[Emma Clearwaters.

If Your Subscription to Farm and Home has expired, now is the time to tenew. If you desire a premium in connection with your subscription, see our new premium list, or take advantage of some one of many special offers which appear elsewhere in this number.

A great, fat volume, and as interes; ing and valuable as it is big, is the American Newspaper Annual for 1900, just issued by N. W. Ayer & Son of Philadelphia. It contains 46 colored railroad maps.

Why is a blacksmith the most dis-satisfied of all mechanics? He is con-tinually on the strike for wages.

TEN WEEKS FOR 10 CENTS.

That big family paper, The Illustrated Weekly, of Denver, Colo. (founded 1880) will be sent ten weeks on trial for 18c; clubs of 6, Soc; 12 for \$1. Special of fer solely to introduce it. Latest mining newsand illustrations of scenery, true storley of love and adventure. Address as above and mention; stamps taken.

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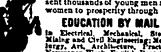
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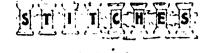


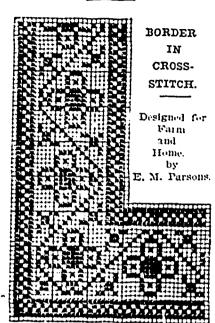
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#### SEWING LESSON-IV.

Some time you may wish to sew the edges of a arrow piece of cloth to-gether to make a fold or necktle. If you should make a seam and then attempt to turn it right side out you would have trouble, but the stitch in

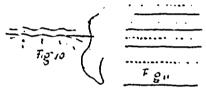
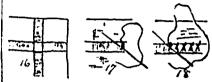


Fig 10 will help you out, because the work can be done on the right side and the statches wal not show, for they are the kind caned banel. Turn down the edges of the cloth on the wrong side, then when you leaste the two sides together the turns d-down parts will be cut of sight. Put the needle in near the edge of the piece nearest you, then in the other and weave the needle back and forth for two or three (four if you can) statches, draw the thread through and repeat. The cloth looks puckery in the picture, but it will straighten right out when the needle is drawn through. The edges must be even, but in blind stitching a lining to an outside part, the lining may be turned in a little more as in the cut. When the lower edge of a patieout becomes worn, it may be five a by cutting off the frayed part and turning in the edges and blind stitching.

Don't you think a few tucks look pretty above a hem on drawers and other garments? The only hard thing about making them is to keep them even. Now you will need to use that little reasure very carefully. If you will the tucks an eighth of an inch wide, measure for the first one half an inch from the top of the hem. Fold the cloth for the edge of the tuck and crease it, then baste for the sewing line. The width between the tucks



spread open a scam and keep it flat. The sittenes must be only just caught into the outside cloth or they will show too much on the right side. The center too much on the right side. The center vertical line in the cut shows the seam and the others the edges of the cloth. Bring the needle through the cloth at a, cross slanting and put the needle in at b and out at c. The upper part will show you how. Work up or away from you and use thread or silk. Some work from left to right. The name of this with is herringlome and the one in Fig. 14 is cat, before or feather stitch. The last two are good names for it, don't you think so" Fig. 15 is called the double brier. These stitches are used



on the outside of seams of flannel petti-coars and for the line of the hem, too, coats and for the line of the hem, too, which makes it look very pretty. Embroidery slik should be used. Fig 13 shows just how to begin. You see the needle is put in slanting instead of straight as in Fig 12 and you work from the pot at farthest away from you or at the top toward you or down. In the double brier take two slanting stitches before crossing over for the next.

Haven't you wished many times that you knew how to bematich so you could make dainty little handkerchiefs.

Haven't you wished many times that you knew how to hemstitch so you could make dainty little handkerchiefs all by yourself? If you are willing to be very patient and careful you can learn now surely, for the stitch we will try is the easiest of three ways to hemstitch that I know, A piece of linen 12 in square will be large enough, because you may want to but a parrow 12 in square still be large enough, because you may want to put a narrow lace edge around it. Draw out four or five threads \( \frac{1}{2} \) or \( \frac{3}{2} \) in from the edge each way on all sides, then it will look like Fig 16. Turn the edge down twice for the hem and baste close to the upper edge of the drawn part, put the needle in the edge of the fold, then under three or four threads, as in Fig 17, but be sure to put the needle under the same threads again to hold them firmly at the top, pull them together, then same threads again to hold them firmly at the top, pull them together, then into the lower edge of the fold. Fig 18 shows this, also some finished stitches. Some use linen thread, I think cotton is the best, but it should be finer than you would use in making a commen hem.—[B. A. W.

An Easy Knot-This very pretty knot is tied as follows. First ravel the rope down about five



Inches, then take one

inches, then take one strand, a, and bend it around and press it against the rope, making a loop as shown in cut. Then take strand b and bring it around under a, and then take c and bring around under b and put it through the loop made by b. Then take a and follow b up through the loop made by c; then take b and follow c up through the loop made by a, and then draw all gradually until tight, and you will be surprised at the result.—[W. J. Evans.

To Lighten Washing—I read an article in Jan 15 F & H on how "to lighten washing;" and I will tell my way. First I put the water over early and let it get boiling hot, then I should be the same as the tucks, so the distance from the basting of one tuck to the edge of the next should be 3, inch. If the doth is thin and fine, run the tucks or backstitch if you would like it firmer.

Now we will learn to make some fancy slitches and you will find them a relief from some of those hard ones. The first one, Fig 12, is nice to use on the tucks in the clothes, but rather it loosens the dirt. After I rub out my white clothes I put them in a tub of the clothes I put them in a tub of

rinsing water. If my dark clethes are very dirty I heat over some of the suds from my first tub and put there in the hot suds the same as I did my white caches. It some and rinse your clothes well. I think half the secret in washing is in having plenty of good rinsing water. From the rinsing water put them in water slightly blued. But let me tell you if you have sheets and pillow cases of unbleached muslif, do not blue them at all and you will see how

much quicker they [Reader. bleach

Coloring Hats-To color a White straw hat black, as requested in a re-cent issue, brush thoroughly, then rub with a damp, not wet, cloth. Now will, good liquid shoe polish go over every particle of the hat with a brush. This will prove satisfactory.—[Emma Clear-





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#### DUCK FOOT QUILT.

dainty pattern. called Th \* also The dainty pattern, also called "suga bowl," is very easily pieced. The blocks are small, six inches square, and should be placed in two colors for the best effect. The diamonds are four



inches the long st way by two inches wide. The large half square is three inches on the side, the smail half squares arc one inch on the side. These are dimensions for the "foot." The light pieces one can determine easily. [Emma Clearwaters.

#### DRESDEN EDGING.

Make chain the length of the piece to be trimmed, as this lace is made lengthwise instead of crosswise. If for the neck of corset cover or the like, make chain in length the size of the neck.

Do not join chain.

1st row—One tr in 5th st of ch from hook, ch two, one tr in same st, ch two, one tr in same st.



st, thus forming shell. Proceed whole length of chain in this manner, skipping three st between each shell.

2d row—Same kind of shell in center of each shell of first row, and so on until edging is as wide as desired. Can be made any width, and is especially pretty for flounce upon white skirts, making edging about six shells deep.—[Mrs L. A. Gullickson.

Sponging Dress Goods-The articles needed in order to successfully sponge a piece of goods are a large-sized table, a board 30 inches long and six or eight inches wide and a sponging sheet which should be a yard wide and two or three yards longer than the goods to be sponged. New muslin, which has been shrunk and made ready for use, gives excellent satisfaction and can be fashioned into under garments after the sponging is completed. In light-weight goods clip the selvages before sponging, but for heavy cloths and cloakings it is better to remove the entire selvage. Keep double-width materials folded as when they come from the store. Wet the sponge cloth, and if the material is heavy, do not wring it. If light, press out a part of the water. Lay the sponge cloth on the table lengthwise, place the material on this, letting the end of the sponge cloth extend one foot beyond that of the cloth to be sponged; turn this surplus feat over the material, put in he brard and smooth the two cloths to-sether until not a wrinkle is to be seen. It will not a wrinkle is to be seen. It will not a wrinkle is to be seen. It will not a wrinkle is to be seen if the board. Wrap the extra length of sponge cloth around the outside and fasten securely. Let the goods remain in the sponge cloth for three or four heurs, then shake out and hang to dry on a perfectly taut line. If the line save the edges of the cloth will be untiven.—[Lalla Mitchell. or eight inches wide and a sponging sheet which should be a yard wide and

Why is a butcher's cart like his top-boots? He carries his calves there. What is the worst fare a man can live on? Warfare.

#### NEW SPRING STYLES.

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embroidered frills and insertion for dress occasions, or of figured or serge and plainly completed as in small \$\lambda^{-1}\hbar\_h\$. Occ., which in each instance accompanies of \$\text{p}\$ on Give bust measure for lattice inper gan \$\text{m}\$ ; ire waist measure for skirts, give both age cast measure for misses and chill dren. Fatterns are the each, and should be ordered offsite thince of this Publication. Full directions, quantity of material required and illustration of garment with each pattern.

#### GUESSWORK.

When does the rain become too familian to a lady? When it begins to pa, her (patter) on the back.

Why is Satan always a gentleman? Because, being the imp of darkness, he can never be imp of light.

Why does a man's hair turn gray sooner than his mustache? Because it is about 21 years older.

Which is the strongest day of the week? Sunday, because all the others are wear (week) days.

Why does a donkey prefer thistles to oats? Because he's an ass.

Why need a man never starve in the desert? Because he can always eat the sand which is (sandwiches) there.

Why is a cat's tail like the earth? It is fur to the end.

When is a hat not a hat? When it becomes a pretty lady.

Why is a doctor never seasick? He's used to see sickness.

When did Caesar first go to the Irish?

used to see sickness.

When did Caesar first go to the Irish?
When he crossed the Rhine and went back to bridge it.

Is the sweetest season in human life, as it is in Nature generally. It is the time of promise. As the young girl draws near to that mysterious line "Where womanhood and girlhood meet," her whole destiny is in a measure being determined.

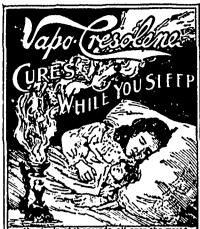
Often the sweet young girl, under the influence of the change, with-ers and droops ers and droops like some blighted bud. Nature generally needs some little help at this critical period, and this help in its best form is contained in Doctor Pierce's Favorite Pierce's Fay Prescription. establishes re talarity, and gi estable vigor of perfect health to the womanly organs. It contains no alcohol, neither opium, cocaine, nor other narcotic.

other narcotic.

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The aluggiah liver can be cured by the use of Dr. Pierce's Pleasant Pellets.





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#### WHITE HOUSE COOKERY.

Choice Dishes Contributed by Hugo Zie Steward of the Executive Manslon mann, Steward e at Washington.

Winter Vegetable Soup: Scrape and slice 3 turnips and 3 carrots and peel 3 onlons; fry all with a little butter until a light yellow and add a bunch of celery and 3 or 4 leeks, cut in pieces. Stir and fry all the ingredients for 6 minutes, and when fried add 1 clove of garlic, 2 stalks of parsley, 2 cloves, a little gratea nutmeg, sait and pepper. Cover with 3 qts water and simmer for 3 hours, taking off the scum carefully. Strain and serve with croutons and rice or vermicelli may be added.

Potato Filiets: Pare and slice the potatoes thin; cut them in small fillets about ¼ in square and as long as the potato will admit Keep them in cold water until wanted, then drop them into boiling lard, and when nearly done take them out with a skimmer and drain. Boil up the lard again, drop the potatoes back and fry until done; this will cause the fillets to swell up and puff.

Chicken Dressed as Terrapin: Select Winter Vegetable Soup: Scrape and

puff.
Chicken Dressed as Terrapin: Select young chickens, clean and cut them into pieces and put into a stewpan with into pieces and put into a stewpan with just enough water to cook them. When tender stir into the chicken ½ cup butter and 1 beaten egg. Season it with salt and pepper and 1 teaspoon powdered thyme. Add 2 hard-boiled eggs coarsely minced and a small glass of wine. Boll up once and serve with tolly.

Oyster Salad: Drain the liquor from 1 qt of oysters and put them in hot vinegar enough to cover them placed over the fire, let them remain until plump but not cooked and then drop them immediately into cold water. Drain off and mix them with 2 pickled cucumbers cut fine and 1 qt celery cut in dice pieces. Add salt and pepper for seasoning and mix all well together, tossing up with a silver fork. Put a mayonnaise dressing over the whole and garnish with celery tips and slices of hard-boiled eggs arranged tastefully. Washington Loaf Cake: Three cups sugar. 2 scant cups butter, 1 cup sour mik, 5 eggs, 1 teaspoon soda, 3 tablespoons cinnamon, ½ nutmeg grated, 2 cups raisins, 1 cup currants and 4 cups sifted flour. Mix in the usual order and stir the fruit in at the last, dredged in flour. Line the cake pans with paper weil buttered. This cake will take longer to bake than plain cake and the heat of the oven must be kent at an ny. Oyster Salad: Drain the liquor from

per weil buttered. This cake will take longer to bake than plain cake and the heat of the oven must be kept at an even temperature.

Orange Roly-Poly Make a light dough the same as for apple dumplings, roll it out into a long narrow sheet about 4 inch thick. Spread thickly over this peeled and sliced oranges, sprinkle plentifully with white sugar scatter over all 2 tenspoons grated orange peel and then roll it up. Fold the edges well together to keep the fulce from running out. Boil in a floured cloth for 1½ hours and serve with a lemor sauce.

Dominoes: Have a plain cake baked in rather thin sheets and cut into small

Dominoes: Have a plain cake baked in rather thin sheets and cut into small oblong pieces the size and shape of a domino, only a trifle larger. Frost the top and sides. When the frosting is hard, draw the back lines and make the dots with a small brush dipped in melted chocolate. These are especially nice for children's parties.

Apple-Puff Pudding: Put ½ ho of flour into a basin, sprinkle in a little salt and stir in gradually 1 pt milk. When quite smooth add 3 eggs: butter a ple dish and pour in the batter. Take ½ ho of apples, seed and cut in silces and put in the batter. Then place bits of butter over the top and bake three-quarters of an hour. When done, sprinkle sugar over the top and serve hot.

Trifles: Work 1 egg and 1 tablespoon sugar to as much flour as will make a stiff paste. Roll it as thin as a dollar and cut it into small, round or square

add to the mixture. Beat all well together and bake in tart shells without covers.

#### REQUESTED RECIPES.

Raised Brown Bread: One pint yellow corn meal, ½ cup yeast, ½ cup molasses, ½ teaspoon salt, 1 salt spoon soda, 1 pt rye meal. Put the corn meal in the mixing bowl and scald it with boiling water, just enough to wet it; let it stand 10 minutes, then add cold water stand 10 minutes, then add cold water enough to make a soft batter. When lukewarm, add the yeast, molasses, soda, salt and rye meal. Beat it well and let it rise over night, or until it cracks open. Stir it down; put it in a buttered and floured tin to rise again; sprinkle flour over the top. Bake in a moderate oven two hours.—[Mrs Lincoln.

coln.

Hop Beer or Home Brew: Put 3 gals water into a perceiain-lined or granite vessel, add 2 big handfuls of hops. Boil for haif an hour and add 1 pint wheat bran and 1 qt molasses. Boil 15 minutes longer When it is milk-warm, add 1 teaspoon light yeast. Set the mixture in a warm place to ferment for a day and night, after which it may be bottled. Secure the corks with wire or string and lay the bottles on their side in a cool place.

string and lay the bottles on their side in a cool place.

Ginger Punch: One quart cold water, I cup sugar, ½ lb Car.on ginger, ½ cup orange juice, ½ cup lemon juice. Chop ginger, add to water and sugar, boil 15 minutes, add fruit juice, cool, strain and dilute with crushed ice.

#### LEMON PIES.

Lemon Ple with Upper Crust: Stir 1 heaping tablespoon flour in a little water until it becomes a smooth paste, add 1 cup cold water, the grated peel and juice of 1 lemon, a scant cup of granulated sugar and a little salt. Stir this mixture over the fire in a double boiler or a small dish set in a larger dish of boiling water. Cook three or four minutes, let cool and add a we'l-beaten egg. Pour this filling into a rie plate lined with crust, cover with thin crust, dampening edges with milk and pressing well together. Cut an opening in center of top crust for escape of steam; bake a nice brown in a brisk

Custard Lemon Pie Mix together ½ cup sugar, 2 heaping tablespoons flour or 1 of corn starch, the juice and grated peel of ½ lemon and 2 well-beaten eggs. Pour a pint of boiling water over the whole, stining well. Set this mixture over the fire and stir until t boils and thickens. Turn into a pie plate lined with paste and bake as a custard pie. Set away until quite cold. Beat the whites of 2 eggs to a stiff froth, add 3 tablespoons powdered sugar, spread over the pie and set in a moderate oven until a light brown. Serve when cool.—[A. R. Annable.

Raised Graham Bread-Four cups graham flour, 1/2 yeast cake, 1 teaspoon graham flour, ½ yeast cake, I teaspoon salt, I qt warm water. Mix tegether in a sponge and raise. When raised (in three or four hours) add 2 qts wheat flour, rub into it lard or outter, size of an egg. Add % cup mo'asres, 2-3 cup sugar, ¼ teaspoor soda. Mix with the sponge and kneal as for white bread. When raised mold in loaves and bake. This quantity makes two leaves.—[Ma.

Dark Sour Milk Cake-One cun sour milk. 1/2 cup butter, 1 egg, 1 teaspecial soda dissolved in sour milk, I cup sugar, not quite 2 cups flour, spices and fruit to suit the taste. Some use 1 teaspoon cinnamon, cloves and allspice.-[Ma.

Baked Eggs-Break 8 eggs into well-butter a dish, put in pepper and sait to season, and between each egg a bit of butter and I tenspoon of cream. Sct in oven and bake about 20 minutes

Pork and Bice-Cut fresh lean pork and cut it into small, round or square cakes. Drop into bolling lard and when they rise to the surface and turn over they are done. Take them out with a skimmer and place on an inverted sleve to drain. When served for dessert or supper, put a spoonful of jelly on each. Orange Tarticis: Take the juice of 2 large oranges and the grated peel of 1 orange, & cup sugar and 1 tablespoon butter. Stir 1 large teaspoon cornstarch into the juice of & lemon and

of the boiling tomalogs. As the whites stiffen, prick the yolks, cook a few minutes and pour over slices of buttered toast.—[S. 16 W

#### OUR PUZZLE CONTEST.

We shall give you the usual number of puzzles for March and 15 prizes will be awarded, the first of which will be a watch. The centest will be governed by the following

RULES.

No two answers will be allowed to any question: that is, you must not say the answer is this or that. Answers must he mailed within 10 days of the receipt of the issue of the 15th. The contest is open to every subscriber or one member of the family. Write your answers plainty, and be sure and spell your words right, as a misspelled word will throw out the answer. Always write your name on every set of answers, as any set without name or address will be thrown out. Answers may be sent by letter or on postal, as the writer chooses. Address all answers to the Puzzle Editor of Farm and Home, Springfield, Mass.

FIRST INSTALLMENT FOR MARCH.

#### FIRST INSTALLMENT FOR MARCH.

PHEST INSTALLMENT FOR MARCH.

1. A Geographical Story—Make sense by putting in words to correspond with the name of the town mentioned.

John Jones was a (town in Va) with a (town in Ky) reputation. He was at work on a (town in Mich), when he had a (town in N J) from one of the (town in NIII). The (town in S C) was immediately sent for, who at once summoned help from the (town in Kan). When the maname he gave him a dose of (town in N C), and proceeded to examine him to see if he had broken his (town in Ga), on which he (town in Wash). After careful examination it was found that he had sustained no injury to his (town in S D), and the doctor consented to his (town in Col), where his young (town in Tenn) was waiting to receive him, having heard of the (town in Md).

Answers to the January contest.

ANSWERS TO THE JANUARY CONTEST.

-Pecriess. -50,995.

2-50,925.

3-Perpendicular.

4-All is fair in love and war.

5-Quebec Shanghal Damascus Posth.

6-He who by the plow would thrive.

Must either hold himself or drive.

PRIZE WINNERS FOR JANUARY.

Rosa Hyde Md: A I. C. Black, Minn. William A. Clark, Mass., Olin Olsen, West Salem, Wis; Charles Day, Mo; C. Everett Kan; Cyrene Griffis, Pa; Amy T. Cloud Wash; George A. Clough, N. H; Mrs Mary E. Howe, Neb; L. T. Partridge, N. Y; Edwin E. Blake, Me; W. E. Wiatt, Va; C. Dixie, N. Y; William M. Learned, Mass.

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#### NO MORE LETTER CIRCLES.

Our readers are hereby notified that the letter circle department has stopped. The circles already formed are to ped. The circles already formed are to continue, and if there is any unnecessary delay or stoppage of letters, the members should notify us so that we may investigate. But there is not enough interest in these circles to warrant our continuing them. Those who have applied for membership and have not been put into a circle, will receive back their dimes.

#### COUNSEL.

Letter Circle Business-Letter Circle No 61 is in the line of murch which leads to the city of Success. How many leads to the city of Success. How many of the other circles are also marching in this line? The letters are nowontheir fourth round. "Gem" is our name, "Pray and Work" our motto. For president we claim a young man (not yet 25) who has been in every state in the Union and can give us information on any spo. in the country. We represent various occupations and professions—farmers, smiths, college students, teachers, musicians, elocutionists, etc. "Variety is the spice of life."—[Secretary of Gem.

#### WHEN?

WHEN?
When will cold winds cease to blow?
When will summer come again?
When the lovely violets grow
Down along the pasture lane?
When will waterillies fair
Nod in slience o'er the pool.
Sending forth a perfume rare
On the evening breezes cool?
When will yellow dandellons
Lift again their golden crest.
And the phlox and columbines
Bloom in beauty with the rest?
Poetic Bills

Own Making-I am a stepmother of four grown-up young men, the oldest 29, youngest 21, and I only 34, and I love those boys as though they were my own. I have a stepfather who has two sons and two daughters, my mother has four married daughters now, and we all love one another and speak of one another as brothers and sisters and each is ready to do all we can. I am willing to sacrifice a great deal to be happy and make others so. I am one who has had a great deal of trouble, all my own making, so Two Stepdaughters and One Who Knows, look in your own hearts and see if I am not right. You will say "yes,"—[Mrs M. J. L. M. love those boys as though they were my

Take Your Wife-Now, Bachelor, if we will look around a little I don't be-



lieve you will find half the deceitfulness you im-agine there is in the fair sex. Perhaps if Waller from Walltown should forget to lean on that hoe handle for a while and put it to the use for which it was intended, he would find time to take in one of

the numerous picnics held during the summer, and take his wife, too. I'll tell you, Itoy M., why I left the farm. It was for \$40 per month and expenses, which was \$24 per month more than I could make on the farm. And the work was a great deal. farm. And the work was a great deal lighter, although I will admit it is a lifle fast. I am working as lineman for the Eric telephone system.—[Just a

Good Treatment—Two Stepdaugh-krs, treat your stepmother better than

body that will marry your father and help raise his children should have his and your best thoughts. My two are boys. I would not have much trouble if it were not for their relatives.—[Mrs

Greatness-Some men do great things in our world, and they are great men; the world looks on them as heroes. But in all probability if we could lock down into their inmost heart we would see there what we would not call greatness. Oftentimes those who have done nothing great for the world have done a great life work, so let us all do the best that we can.—[Mrs Annie Waddell,

Discussion-M. R. Rouse suggests as Discussion—M. R. Rouse suggests as a subject for discussion, the various ways in which a person may be divinely great. Dwight L. Moody, the great evangelist, is dead. Because he lived for one purpose, that purpose believed in himself, made it the gist of his conversation and study all day long and the object of his untiring efforts, his work was crowned with success, for truly "perseverance wins."—[Sankanac. The emperor of Germany has decided that the 20th century has begun and the

The emperor of Germany has decided that the 20th century has begun and the pope does not know whether it has begun or not, so there may be some excuse for the trouble ordinary people are in. But when the child is 19 years old, do we say he has to wait another year before he can begin his 20th year?—[J. Panghurn. O. Pangburn.

O. Pangburn.

I live in Radcliffe, Ia, the best town in the best county of the best state of the best United States on earth. Don't you think I have a good reason to beast? Who can say as much?—[Vernon Stanzal]

Noah-I have seen all of the last century but 15 years, my wife has seen all but 19 years. We were married 57 years but 19 years. We were married 57 years ago and both are hale and hearty, and expect to take the F & H while we live. While teaching a class in Sunday school recently the teacher asked, "What was Nouh supposed to be doing when the animals were going into the ark?" She received several answers. At last a little girl put up her little hand and answered, "Taking the tickets, miss." [Timothy Kennie.

Col North Again-Being a constant reader of F & H, I was much interested in looking over the Council items for Dec 1, to see an account of Col North and his home in the lovely Kentish village of Eltham. I can corroborate all the writer said, because I knew the man. I knew them as a boy and went to the same school for years. He was, like myself, a native of the town of Leeds, Yorkshire, England. There was nothing about him as a boy to lead one to think he would ever be of such importance as he turned out to be in his later years. The writer said how his going to live in the village improved and caused a new interest and improvement in the place. He was, indeed, an open-handed, generous man, and unlike many who, when they suddenly find they have acquired vast wealth, drop all their old friends and acquialntances who are not so fortunate. He did the opposite, and many an old friend and fellow workman found their positions materially and substantially improved by his generosity. He took a pleasure in seeking out any whom he had known in early years and giving them a helping hand. He also bought the ruin and grounds surrounding it, called "Kirkstall abbey," situated about four miles from the town (now city) of Leeds. It is an old historical relic of 800 years ago. This cost Mr North \$55,000, and he presented it to his native town, to be free for recreation for the people. His memory will be long remershered by many who benefited by his generosity.—[Mary Mills. and his home in the lovely Kentish village of Eltham. I can corroborate

Saved!-Magdalene, I'm sorry your brothers aren't more thoughtful of you. Are you quite sure it isn't your fault? X Y Z, I wish I could thank you perwith the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced to make a stranger I hesitated to do so, fearing the consequences might be consequenced. I knew the letters would be read by him, and

it may afford you some pleasure to know that his wife is a far happier woman because of your words. He yielded in a tim of great trouble, but he has been brought to his senses before it became a clinging habit. Arkansas Traveler, this is the way I forgive.—[Coddle's Sister.

Happy Pair-I am married to a man that nothing but death can separate me



from. Dear sisters, let me advise you a little. When your a little, When your husband comes, in tired, never be too busy to look up and smile, and if possible meet him at the door with a kiss. I have been married nearly 11 years, and I find that will always years, and I find that will always bring a smile over

his tired face.
Then when he
goes to work he
leaves a parting kiss on my lips and
tach of the children (which are four).
I do my own work and on wash days
he often helps me, and when he is busy I am not above helping him milk the cows, feed the horses or even water the hogs. We are always happier in each other's company than any one else's, and we have lots of company, and always enjoy it. We are not "sot," for when there is company a smile takes the place of a kiss.—[Happy W.ie.

Stepchildren-I noticed some advice given to stepmothers. Now I am a stepmother, and can write from experience. My stepchildren are all boys and all except the youngest began to work for themselves when their father broke up housekeeping, and they have never lived with us, but come to see us and treat me with as much respect as they would their mother, and I use them the same. The youngest boy has lived with us ever since we were married. He is like other boys, bad sometimes and good sometimes. He is mischievous

# Fried Onions.

#### Indirectly Caused the Death of the World's Greatest General.

World's Greatest General.

It is a matter of history that Napoleon was a gourmand, an inordinate lover of the good things of the table, and history further records that his favorite dish was fried onlong his death from cancer of stomach it is claimed also was probably caused from his excessive indulgence of this fondness for the odorous vegetable.

The onion is undoubtedly a wholesome article of food, in fact has many medicinal qualities of value, but it would be difficult to find a more indigestible article than fried onlong, and to many people they are simply polson, but the onion does not stand alone in this respect. Any article of food that is not theroughly digested becomes a sourcoof disease and discomfort, whether it be fried onlong or beofsteak.

The reason why any wholesome food is not promptly digested is because the stomach lacks some important element of digestion, some stomachs lack peptone, others are deficient in gastric juice, still others lack hydrochloric acid.

The one thing necessary to do in any case of poor digestion which the stomach lacks, and nothing does this so theroughly and safely as Stuart's Dyspepsia Tablets.

Dr. Richardson in writing a thesis on treatment of dyspepsia and indigestion, closes his remarks by asylue, ""er those suffering from acid dyspepsia, s',own by sour, watery risings, or for fistu'ent dyspepsia shown by gas on stomach reaching and difficult breathing, as well as for all other forms of stomach trouble, the safest treatment is to take one or two of Stuart's Dyspepsia Tablets after each meal. I advise them because they contain no harmful drugs, but are composed of valuable digestives, which act promptly upon the food eaten. I never knew a case of indication or even chronic dyspepsia which Stuart's Tyspepsia Tablets after each meal. I advise them because they contain no harmful drugs, but are composed of valuable digestives which act promptly upon the food eaten. I never knew a case of indication or even chronic dyspepsia which Stuart's Tyspepsia Tablets, and to a

#### A Story of Sterility. SUFFERING AND RELIEP.

LETTER TO MES. PINKHAM NO. 69,186]

"DEAR MRS. PINEHAM-Two years ago I began having such dull, heavy dragging pains in my back, menses were profuse and painful, and was troubled was leucorrhose. I took patent medicines and consulted a physician, but received no benefit and could not become pregnant. Seeing one of your books, I wrote to you telling you my troubles and asking for advice. You answered my letter promptly and I followed the directions faithfully, and derived so much benefit that I cannot praise Lydia E. Pink-ham's Vegetable Compound enough. I now find myself pregnant and have begun its use again. I cannot praise it enough."-Mrs. Cona Gilson, Yates, MANISTEE, MICH.

#### "Your Medicine Worked Wonders."

"I had been sick ever since my marriage, seven yoars age; have given birth to four children, and had two miscarriages. I had falling of womb, leucorrhoa, pains in back and legs; dyspepsia and a nervous trembling of the stomach. Now I have none of these troubles and can enjoy my life. Your medicine has worked wonders for me."—Mes. S. Barnhart, New Castle,



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#### Farm and Home Council.

but is good to work. When we were first married he did not want to obey me, but generally obeys me now. I try to do to him as I would have anybody do to my children, if I had any, and I want him to treat me as he would want other boys to treat his mother if she was living. I think from the letter written by Two Stepdaughters that they don't treat their stepmother as they would want their mother treated. There are always two sales to a story. There are always two sides to a story and anyone who is not a stepmother knows nothing about it, or how much a knows nothing about it, or how much a stepmether has to contend with. If a stepmether corrects a child, she is abusing it. A mother can do the same thing and it is all right. My husband and I darted about even financially, so there is nothing of that sort to make a disturbance, and I am glad of it. I have as good a husband as any woman ever had and we get along together as well as any family I know of Yet being a stepmether is no fun, for there is always somehody to find fault and make a disturbance.—[A Stepmether.

Ties the Knot I see you have no priest who writes to your page, but a good many 'preachers,' therefore I write you this letter. Water Lily, if you get stuck on that young teacher, remember that I can be almost any kind of a knot. Perhaps there's another chance to earn a few deliars if Aveline tells the truth in her letter Now I say, continue to write about your beaux and sweethearts if you like to, for my business is to the knot after Cupid has thrown his dart—[Bishop.

Not Big Feeling I am a graduate of Lovas first class high



schools and am not thing feeling" over it, cither, for I worked for my board and can appreciate what little elucation I have. am going to teach this winter and expect to give my money to my parents, for I. too, think there is no place

parents, for I. too, think there is no place think there is no place 11ke h o me. So ur Seventeen. I do not agree with you on your favorite authors. My favorite English author is Shakespeare, What is grander than Hamlet's sollloquy, which is considered the solloquy, and the solloquy, and the solloquy, and the solloquy, to be, or not to be, etc. Tennyson is also fine. John G. Whittier is my favorite of American writers. Holmes also stands high in my favor Yes. Kittle Dillion, I have read Ramona. I enjoyed it, although I do not think a very good book for a person of a sympathetic nature to read, because it makes them nervous. I prefer something with more photosophy in it. But when I am tired and don't want to think I read Marietta Hollev's works. It seems to me there is a great deal of passion written in these columns. Kemmember, we should respect each other, not abuse. Girls, command the respect of the boys. You will enjoy their company three tims as as mach. Perhaps you think I am a person who never is jolly or witt. But in my circle of friends I am noted for my wit and cheerfulness. I am always ready for a joke, who ther it is for me or not I am a farmat s daught and an not afraid of any kind of work the occasion may demand.—¡Persistent Iowa Girl. of any kind of work the occasion demand.—¡Persistent Iowa Girl.

THE DEAREST TIE. "We are citizens to-morrow," My comrade said to me.
"The ship is only waiting
To bear us over sea
Over sea and homeward bound!
No more of soldler's fare,
But home life and the dear ones
Are waiting for us there."

And then they brought a letter.
I broke the seal and read.
"Prepare to hear sad tidings. Dear Charlie, mother a dead "
The ship will sail without me,
A wanderer I shall roam;
The dearest tie is broken That bound my heart to home B. N. G.

Model of Perfection - I am wondering if Water Lily will ever have courage to write again, But then, I know a girl exactly like her who got a hus-

band, and they are living happily for all I know. But for myself, I am going to pick out one that has not been kissed and hugged by all the boys in the country. I am keeping company with just such a one and I respect her all the more for not allowing such things. I consider her a model of perfection. Of course a "fast girl" seems to be pleasant company, but I think the older one gets, the more he or she learns that the time so spent was spent in sowing wild onts.—[Jasonius Albus.

Friend-I wonder if Lena Webster knows what the word friend means.



Inquiring Friends-S. H. Gill, Sheldon's Corners, N Y, wants to know where carpet reeds can be obtained.— Mrs H. B. B., directions for infants' knit shirt were given in our Oct 1, '98, Mrs H. B. B., directions for infants' knit shirt were given in our Oct 1, '98, issue.—Neva H., 'at fine" in music means to the end, or go back and play to the end —Mrs C. J. D. we have printed many patterns of floor mats and rugs, what kind do you want to be referred to?—Mrs E. L. Armsby, Council Grove, Kan, wants information about the oil stoves without wicks.—Mrs W. W. H. and others, we don't furnish doily or any other fancy work patterns.—George R., yes, 'editors know a good deal about the world," but second-class telegraph operators are not in such demand that we can step out and find situations for you.—O. H. R., we don't know the "adopted flower" of each principal country.—Mrs E. F., we suppose by sticking plaster you mean porous plaster for medicinal purposes. We know of no reliable recipe for home making.—J. M. C., "our doctor" says wash perspiring feet daily with a strong tea of oak bark, but we think wiping occasionally with a soft cloth saturated with listerire will produce pleasing results; this drug is used freely externally and internally in

"People often suffer from dyspepsia withoutknowing it."

"Well, at least they let everybody else know it."





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#### Talks with Our Lawyer.

FENCE-Shakespeare, NY: Your agreement that A should repair half the division fence and B his half is a good agreement, and both are liable to the other. Independently of the agreement, neither of the two owners of the adjoining land is compelled to erect or contribute to a partition fence if he doesn't wish his land inclosed and doesn't occupy or use it otherwise than in common. If a neighbor's cattle wander over such unfenced land to other land and there damage crops or injure themselves, it is the loss of the owner of the cattle. To avoid this liability the owner must fence his cattle in.

CONVEYANCE—Pa Reader: An owner of real estate died, leaving a widow and children, all of age. The widow wished the heirs to convey their shares to her and all but one did so. The one who refused to sign still retains his interest and in case the mother dies, he as her heir inherits part of the portion that now belongs to her. The widow and the child who didn't sign are owners in common of the land—not joint owners. Either may have the land partitioned by division or sale upon proper legal proceedings. The other heirs had a perfect right to convey their shares if they so chose. CONVEYANCE-Pa Reader: An owner

RENT-J., Pa: X rents his farm to Y for a year by verbal agreement. At the end of 6 mos Y purchases the farm of X and receives a deed of it. Will Y be obliged to pay X for the remaining 6 mos of the term? No. The delivery of the land put an end to the tenancy and Y ceased to be tenant of X.

DESCENT—A. II., N H. N, a widow, owned a farm. She had one son. She then married Y, a widower who had three children. If X should die, to whow would the property go? The surviving husband would have the use of the farm for his life. Then the son of X would take the property. The children of Y would have no interest in the property. If Y pays off a mortgage on the farm and he dies before X, his children take no interest in "property by reason of the fact that a did off the mortgage. The wife can, by will, devise the farm to her child if Y will in writing assent to the will. If he will not, she cannot thus deprive him of his life estate in the property.

DAM—Ct Subscriber: A has for several years owned a fish pond formed by damming up a stream. The water sets back on h's land. C now intends to buy B's land and threatens to make trouble for A. Can C compel A to draw off the water? No. C can sue and recover damages, but can't make A take down his dam after so many years.

INHERITANCE—H. E. N., Mass: If a wife has real estate fall to her from her father or mother, can her husband take any of it at her death, they having had children, and can she during her life sell such property without the husband's consent? In Mass, on the death of a wife, the husband has a life estate, free from all her debts, in any land of which she was selzed of an estate of inheritance at any time during coverture, if they had lawful itsue born alive and capable of inheriting. Therefore in this case the husband has such an interest in his wife's land, and to make it impossible for a wife to strip her husband of these rights without his consent, it is by law made necessary that he give his viriten consent to any conveyance which will destroy or impair such interest.

LAND REGISTRATION-M. L. LAND REGISTRATION—M. L. W., N Y; The Torrens system of registration and transfer of real property is a name given to a system built upon the principles of examination of a title by a public examiner, the registration of a title, the issuance of a certificate of title, and an indemnity by the state against loss by reason of any flaw in the title, Sec "The Land Registration Act of Massachusetts." Little, Brown & Co, Boston, 1898.

BURIAL LOTS—Mass Reader: Rights in burial lots are governed by the terms of the deed and the act of incorporation of the cemetery. The secretary or clerk of your association will give you the information you desire.

FENCE-Del Render. No person not wishing his land inclosed, and not occupying or using it otherwise than in comcupying or using it otherwise thanin common, is compelled to erect or contribute it any partition fence. But when any fence is erected by a person on the boundary line of his land and the person owniag the land adjoining thereto afterward incloses his land, so that such fence is used by him, he shall pay to the person owning it half the value of so much of it as serves for a pay 'tion fence between them.

DEED-W., Fig. A deed of property by Ato Y before the land is deeded to X is a soon as X acquires title. Y should of course record his deed at once, but it is a good deed even though ast recorded. If tree, Their seeds are of A No I quality,

a husband dies in Fia leaving a widow and one child, the offspring of a previous marriage, he cannot by will leave all his property to the child and cut off the widow against her will. She may take one-half the property in spite of the will The husband and wife must join in the sale, transfer and conveyance of the property of the wife. The real estate of a woman, upon her marriag remains her separate preperty free from the interference or control of her husband, in N. H., N. Y., N. J. Pa, O. Ind. Wis, Minn. Kan, Neb., Md. Del, W. Va. Ky, Ark. Col, Wyo and Miss.

The question of R. P. of Ga is not a question of law had of the weight of your evidence. All depends on whether or not the jury will be persuaded by your evidence.

#### Our Veterinary Adviser.

CHRONIC DERANGEMENT OF THE THROAT AND BASE OF TONGUE-J.T. D. has a steer which has eaten very little for several months, when he chews his food it seems to stick in the back part of his mouth and at times has to be removed. When he chews a great deal of saliva runs out of hismouth. There is a disease which som times affects the base of the tongue and extends to the throat and the above symptoms would indicate that the disease was there. The animal should be examined carefully by a qualified veterinarian. If one cannot be had, gargle the throat three times a day with the following. Potassium chloride 2 dr. fluid extract of belladonna 1 dr. and water 1 pt. Feed on ground outs and brain.

DIARRHEA—E. 12. H. has lost some young calves with diarrhea. The calves seem all right and strong, but from 12 hours to 3 days after birth they begin to scour and soon die. One of the most common causes of thi trouble is the first milk of the mother containing too much of the purgative properties which nature provides to move the towels of the young animal. This trouble can be usually prevented by milking the cow a few days before she comes in, thus removing the greater part of the milk with contains the purgative principle. Also give the calf when it is born 2 oz castor oil. After the calf is sick, medicine seems to be of no use.

INDIGESTION—G. W. B. has a horse which cats well but keeps very thin in flesh. Feed on good hay and oats. Boll a tencupful of flaxseed into a pulp and while hot pour it on ½ a pull of bran and make a mash of it, give him a mash of this kind once a day and put one of the following powders in it. Mix 4 oz nitrate of potassium, 4 oz sulphate of fron and 2 oz nux vomica, divide in 24 doses. Repeat this quantity if needed.

BLACK LEG-E, K. has lost yearlings; BLACK LEG-E, K, has lost yearlings; the leg swells and they die within 21hours. This disease is one of the forms of anthrax, which affects young cattle, and is the result of the animal being in a plenboric state. When it takes place there is no cure but it can usually be prevented by keeping young stock in a good, healthy, hard condition. Change the food to ground outs and bran with abundance of good fresh water. The disease is not contagious, but the same cause may produce it in several animals in the same herd.

ECZEMA-J. H. has a horse which has ECTEMA-J. H. has a horse which has an itchy skin, at times small pimples will appear these dry and the hair falls out. Also a horse which has a sweeny. Mix 1 oz carbonate of potassium with 1 at water; wash the horse all over with this, then wash off with clean water and dry well. Mix 2 oz oxide of zinc with 4 oz vaseline and rub a little on the affected parts once every third day. Also mix 4 oz sulphate of fron and 4 oz nitrate of potassium, divide into 24 doses, give one once a day in bran mash. In the case of sweeny, on account of its being of one year's standing, little can be done. Try rubbing it well once a day with a little soap liniment.

LAME HORS TY has a horse which has been lame r 3 yrs and is gotting worse. It is not likely that anything can be done fo, such a chronic case, but as we do not know the location of the lameness, we cannot prescribe. If possible, find the nature and cause of the lameness, then let us know and we will advise.

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#### Helps for Farm and Home. CHAT WITH THE EDITOR

J. L. K.: There are three reliable booklets on onion culture: The New Onion
Culture, by Greiner, price 50c. Onions,
How to Baise Them, price 20c. Gregory on
Raising Onions, price 30c. these booklets
are all sold by the Orange Judd company
of 52 Lafayette place. New York.—F.
E. S. The Champion hand seed sower,
made at Urbama, Ind, is sold by the Whitman & Barnes Mfg Co of St Catharines,
Ont. The Import duty from the states to
the Dominion of seed sowers is 20 per
cent. The Iron Age seed sowers are sold
by J. A. Simmers, 147 King street east.
Tolonto.—S. P. S.: Aor information
about the soit, climate, etc. of Cal, write
to See y E. F. Smith, Cal E'd of agri, Sacramento, Cal.—A, L. D.: For information
as to the best fruit lands of Fla, write
to M. V. Richards, Washington, D C.
HORTICULTURAL MATTERS—Mrs I.

HORTICULTURAL MATTERS-Mrs I. HORTICULTURAL MATTERS—Mrs I. J. P.: For catalog of the best dahllas, write to the florists and seedsmen that netertise in F & H.—H. W. H.: Field Notes on Apple Culture, by Prof Balley, price 75c, sold by the Orange Judd company of 52 Lafayette place. New York, who answer your many inquiries on apple production.—Mrs M. H.: Pophar cuttings are sold by nearly all nurserymen who advertise in F & H.—C. F. R.: Henderson's Hundbook of Plants is a reliable dictionary of plants, trees, shrubs, vines, etc. It is sold by the Orange Judd company of 52 Lafayette place, New York, at \$5. postpaid. pany of 52 12. \$3, postpaid.

pany of 52 Larryette place, New York, at \$1, postpaid.

VALUE OF OLD CEMENT—W. L. C. has three tons Akron cement, old and hard, in paper sacks. It is useless as cement. Would it pay to run through a null to pulverize and then spread as a fertifizer? Fresh Akron cement undoubtedly contains a good deal of lime that would materially aid in bringing plant food to an available condition in certain soils Soils that are greatly benefited by an application of stone lime would undoubtedly be buchfied by an application of fresh Akron cement. Old Akron cement that has accome hard has undoubtedly lost its power of bringing hiert plant food to an available condition. The value of this old cemert for agricultural purposes will undoubtedly depend quite largely on its present condition. It may be almost entirely worthless. If the cement has become hard and set, the lime is undoubtedly worthless. If the cement has become hard and set, the lime is undoubtedly present largely in the form of silicate, hydrate, carbonate, or all of these, and the value of this cement, therefore, cannot be but slight. If, on the other hand, a considerable portion of the lime has not changed materially since its manufacture, it undoubtedly would have considerable agricultural value. The chances are, however, that it will not pay to go to any considerable trouble or expense in preparing the mechanical condition of this cement for agricultural uses.

ICE POND—Ct Subscriber: A and B

ICE POND-Ct Subscriber: A and B have an ice pond. The dam is on A's land. B agreed to do half of the work on the dam and pay half of the expense. This B has not done. How can A compel him? By suit attaching B's land.





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l'lease accept thanks for your kindness. You appear to
the most liberal manufacturers we have ever dealt with,
wish to say that this is the third year we have ever used;
werder, and we are very much pleased with it. We me
for corn, putatoes, cabbage, tomatoes, etc., with wends
results. We had a good two-borse cultivator at the time
hought your "Success" weeder, and we state truthfully;
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and cultivators. The teams, of course, can be used for e
work, which means a big saving.

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I simply wish to say that I am more than antisfied with the 13-foot mounted weeder I purchased of you last agains. By corn is cleaner and the ground worked better than it egy was before. I would not think of parting with it for \$160 kt I could not secure another like it. I expect to send yencome orders next spring as my neighbors like it also.

Yours truly, D. D. Cozz.

#### Around the Globe.

To Kitchener, the conqueror of the oudan, is generall; attributed the turn in the tide in South Africa in favor of Great Britain, whereby Gen French made his brilliant dash northward to The incidental capture of Kimberly. Rimberly. The inclinati capture of thousands of cattle and sheep from the Boers helped the English troops and correspondingly weakened the Boers. The venerable and competent Gen Roberts, at the head of England's South African array, will have to share liberally with his brilliant chief of staff. erally with his brilliant chief of staff. Kitchener, whatever success is achieved. This latter general is 45 years old, a bachder, and is a perfect type of what is known as the scientific soldier, taking plenty of time to mature his plans and relying upon thorough and accurate methods rather than headlong dashes at the enemy.

Forests and Rainfall, their relation gorests and mainfall, their relation, are to be studied by the forestry division of the department of agriculture by intestigations in southern California, along the sources of the Mohate river in the San Bernardine meantains. The field capacity nardino mountains. The flood capacity of the streams will be made the basis of investigation.

The Methodist Church east and west was startied to learn that students of the Boston university school of the-ology had accused three of their proclogy had accused three of their pro-fewers of herest and had appealed to the bishops and the Methedist church in general. These students attack Profs Mitchell, Roune and Sheldon, and even President Warren, accusing them of departing from the teachings of John Wesley toward the "higher criticism". They even think they de-tect a defit toward Unitarianism. tect a drift toward t'nitarianism.

Personal -The new president of the national Am John woman suffrage association, succeeding Miss Susan II. Anthony (retired), is Mrs Carrie Chapman state of New York. She is a native of Wissonian was a school teacher and collies, and as notional organizer of the woman suffrage association developed remarkable abilities.

The Canteen is destined to remain in the United States army, according to the interpretation of the new federal the interpretation of the new recent statute by Secretary Real, who agrees with Attenney-General Griggs on this point. The national W.C.T. I appealed in vain to President McKinley for a reconsideration of the legal aspects of the question, but in vain.

A New Cloud apprared in Great Biritain's horizon in the shape of Rus-sian aggression in control Asia. A sian aggression in control Asia. A comparatively small bean to Persia in believed to be but a symptom of new relations between the two nations whereby Persia becomes a vasual of the great northern power. The control of Persia utili give linesia a much desired frontage on the indian occurs and bring her face to face with Great Britain on the borders of Hernt and Afghanistan true of the great dangers incurved by the British government.

sending a large army to South Africa is the exposure of India to its enemies.

The Total Loss of the British in South Africa up to a recent date is put down at 10,515, including 1629 killed and 1430 wounded. Our losses in the Philippines since Aug 6, 1898, have been Killed in action, 404; died of wounds and accidents, 234; died of disease, 291; total, 1529; wounded, 1952.

Free Instruction at the Harvard university summer school is offered by President Ellot for 1000 Cuban teachers this year. This plan is full of promise for the educational advancement of the island. Not the least advantage of the plan is the fact that the Cuhans will come in contact with American teach-

Famine Stricken India is still in a deplorable condition. Throughout Oudh and Punjaub provinces rains have fallen and some seeding started, which points toward relief. In general the outlook is had.

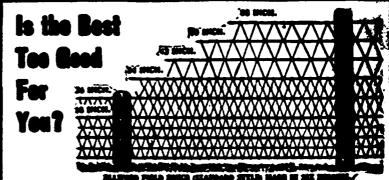
Free Transportation for live stock as required in certain instances of the rall-reads in Kan by legislative enactment has been declared unconstitutional by the state supreme court.

Oppose Bucket Shops—Representa-tives of the commercial exchanges at their Chicago meeting decided to adopt and enforce rules which will kill buck-

Fresh Milk Daily for Paris Exposition-Naj H. E. Alvord, who is to be in charge of the American dairy products at the Paris exposition, is to have fresh milk shipped to Paris every week. It is expected to be kept sweet 2 or 3 days after arriving. No preservative will be used and it will not be pas-

What the Railroads Are Doing-It is a matter of common knowledge that vast schemes of rallway control are vast schemes of railway control are now in process of consummation and that the competition of rival lines is to be restrained by these combinations. While this movement has not yet found full expression in the actual compolitation of railroad corporations, enough hat transpired to disclose a unification of financial interests which will dominate the management and harmonize the operations of lines herefore independent and competitive. This is to-day the most noticeable and important feature of the railway situation. If the plans already foreshedded of a broad of amiliar scope are convied to execution, there will be a vast contralization of railroad properties, with all the power involved in such farraching combinations, yet uncontrolled by any public authority which can be efficiently enerted. The restraints of competition upon excessive and unjust rates will in this way be avoided, and whatever evils may result will be remedient under evisions laws, may the interestip tomost amunit report.

The wise farmer some montains in its recently based annual report. ban neitemmuners to reverg at wen



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