Vol XXI No 407

MONTREAL. CHICAGO and SPRINGFIELD MASS MAY 15 1900 50 Cents a Year

No Royal Road.

OLLEGE graduates—the classical kind, I mean-are now so numerous, as shown by the federal statistics, that they enjoy no particular promiven in a small community. Nor should they, unless native ability gives them a fair lead. "Culture," theoretically, makes a man contented with his lot anywhere and the better workpractice if the culture be the real thing, a genuine broadening influence. There are lots of unhappy college graduates driving street car, and doing other ill-paid work, though, in Germany, where the higher education is well nigh universal Similar condi-tions prevail in parts of the United These things should be clearly understood by young people coming out from schools of learning, and by out from schools of featuring, and by boys and girls just planning their education, and by their parents. There is no royal road to honor and dignity. A man stands on his own merits in this democratic age.

A Devastating Fire.

The greatest fire in the history of Canada recently swept over Hull and West Ottawa. The losses, estimated at \$20,000,000, fall heavily on several lines of business, including especially the lumber syndicate. Over 3000 families or 15,000 people were rendered homeless and many are in absolute want. Considering that 2500 buildings were destroyed it is a marvel that only seven lives were lost. The federal government has given \$100,000 toward the relief fund, the Ottawa government a liberal amount. Even the New Zealand government has sent on \$25,000. ind many are contributing handsomely 10 assist the unfortunate.

Tightening the Web.

Gradually a web of laws is being wound around the liquor traffic so that many of its degrading features are that many of its degrading features are being taken from view and the coming generation is being obliged to Lunt it up rather than to have it constantly before their eyes. While the various states have all sorts of liquor laws, from absolute prohibition in some states, down to the open saloon any and almost everywhere in others, yet the Deminion can give Uncle Sam valthe Dominion can give Uncle Sam calmble pointers on suppressing the traf-ic. The fact that a measure has been ander serious consideration in parlia-ment, prohibiting the sale of liquer in every province and terr-tory except Quebec, shows the strong public senti-ment in Canada against this monstrous and evil traffic.

Peace, Peace!

An oastern reader, signing himself M. W., wants to he another inter-sational peace confe are right away,

Our friend voices a feeling which is very general in our country. and particularly strong just now. A similar spirit animates many letters. believe this feeling to be gaining in strength, though gradually, the world over. The Hague conference undoubtedly was the first of a series. Each new war is telt to be more abhorrent and unnecessary than its predecessor. As the people, in distinction from the few, gain in power, wars will be less

The Horse Industry

Appears to be enjoying a veritable boom. While the country is practically bare, an order was recently received for 5000 more horses for South Africa. Good remounts are indeed a scarce article. Even after the war ends, good horses will be in demand for some time. What is wanted now is a good, sound, hardy, workable horse, 14.1 to 15.3 hands and 6 to 9 years old.

Save the Birds.

The fight against insect and other pests will be half won when the public understands thoroughly the principle so earnest set forth by scientists and the department of ag-leulture, that of the necessity of allowing 12ture's balance in the animal world to be preserved. The birds are our best friends, yet they are slaughtered need-lessly, wantonly. Some of those we think troublesome are worth far more than they cost in fruit and seeds con-sumed. There is danger that some va-rieties of birds will be exterminated. The principle of balancing forces is neatly exhibited in the case of the parasite which destroys the San Jose scale. Rattlesnakes are increasing in certain parts of California, owing undoubtedly to the killing off of other kinds of snakes and of certain kinds of birds. Illustrations of the principle coulds be multiplied almost indefinitely. The case of the birds is a serious one. The boys should be taught their value, that they must not kill them. Farmers will stop as soon as they realize the situation.

The Labor Market.

One of the questions that will soon perplex farmers will be the labor prob-lem. With so many off to war, labor on a boom in the states and our own factories all busy, our farmers may well afford to begin looking around now for harvest hands. Tis none too

One of the interesting features of the fall fairs in recent years has been the calibits of farm machinery. It looks as though the magnificence of these displays is to be a thing of the past, as the largest of the manufacturers have decided not to exhibit in the future at either the large or small fairs.

Ir the agricultural papers of Canada sol only to preven mar but to en-courage economy and industry and to many letters are appearing from promi sol after the wants of the worthy ment farmers urging organization and people, but even this has its limits

co operation. Several schemes are out forward to accomplish the object, but the indications are that when the farmas get together again for mutual protection it will be in the old grange halls. There will be some maneuvering, a waste of good ink, a good deal of jawsmithing, but that is where the farmers will land. There is no other port in sight.

The influence of trusts upon trade during boom times is one thing, their influence during a period of depression may be quite another. The time to keep them within reasonable bounds

Arbor day, like town meeting, "rasses off quietly," but although it may be little celebrated at the time, it serves to remind people to plant trees during several weeks following. It is well worth while.

One of the best and most economical forms of tirm insulance is to keep chimneys, flues, fireplaces, etc. in a safe condition. The recent report of a state insurance commissioner says that over one-fourth of the fires among farm buildings in his state the past year caught from defective chimneys and flues, and from sparks from chimneys. Where buildings are old and wood is used for fuel, the risk is great. People living within call of a steam fire engine can better afford to let their property run down.

The net cost of running the United States government in 1897 was 302 millions, the appropriations of the present congress for 1901, substituting the probable postal defleiency for the appropriation, appropriation.

The army are about 443 millions. appropriation jumps in this time from 23 millions to 111; navy, 30 to 61; pen-sions, 141 to 145. These "items" account for the most of the increase.

One of the latest speakers to tell the boys they will do better to stay on the farm is an ex-congressman via started in the country himself. Well, there are going to be more farmers in congress—though that was not his point. And a lot of money is going to be made in farming. At the same time, the city nerse one of the coun-tre-bred youth. Some of the most succe sful young men in agricultural fursults to-day worked in the large places long enough to catch the modern spirit of hustle and then went back home to put it in operation.

Russian officials are making plans toward converting the entire petroleum industry of the Caspian sea oil fields into a government monopoly. It does not appear that Russian oil magnates have forced consumers over there to pay a 30 per cent advance for the burning fluid, yet here is a hint for our own Standard oil company. Patience is a prominent virtue with our common

Dominion and Provincial.

х

A PROSPEROUS SEASON AHEAD.

Never was there a brighter outlook for farmers in the maritime provinces. The spring has opened up very early. Seeds of all kinds, potatoes, oats and wheat are cheaper than for many years, greatly lessening the difficulty of farmers to procure seed of the best quanty. A year ago potatoes were 25 to 400, oats 450 and wheat \$1.50 to 1.75 p. bu. Now seed oats of good quality may be precured for 300, potatoes for 200 and wheat 1 to 1.25. Much fall plowing has been, done, greatly accelerating early spring seeding and the outlook for grain prices next fall was never brighter.

What has been greatly to the benefit The spring has opened up very early.

was nover brighter.

What has been greatly to the benefit of the maritime farmer this year was the abundance of all kinds of feed, necessitating no par hasing of feed as in many other years, thus keeping the money in the pockets of the farmer which for several years in the past has been pald out for feed. As a resuit more cattle were fed this past winter toan for years. Good prices were realized for fat cattle this spring. A new market has spring up in their midst in the growing town of Sydney, which will need a large amount of mutton, beef and poultry. Added to the ton, beef and poultry. Added to the growth of the cattle industry is the unprecedented high price of pork, which for gometime past has been selling for a p lb, a price not realized for many

c p lb, a price not realized for many years.

But standing out controlly in bold relief amid them all is the maritime dairy industry. So mild a winter as the past has been and the abundance and cheapness of all kinds of feed strengthen the growing dairy industry as never before. The maritime creameries probably have never begun the cheese season under more favorable auspices. The number of cheese foctories has increased fully 25 for cent and the most blind and pessimistic must admit that the possibilities of the biggest boranza dairy year in the maritime provinces is now well begun. The closing year of the glorious nineteenth century is indeed bright. Let every farmer embrace the present opportunity and share the presperity.—
[J. A. McDonald, P.E. I.

The NS government is placing some first-class herses on the Provincial farm at Truro, including Clydesdale and Hackney stallions and mares. The Clydesdale seems to be the popular and money making horse in Ont and Que and now the maritime provinces are becoming interested

Free transportation of exhibits to and from the Hadifax (N S) exposition of the martime provinces over the government rations is promised by Minister Biair. With this inductional, every farmer ought to have something to place on exhibition. The bigger the fair, the better for the country. Get ready for the big fair, Sept 12-20.

The long-suffering "consuming class" have during 18 long years been "bled" to enable a few of our manufacturing magnates to amass colossal fortunes. It present atrangements to include even more favorable preferential tariff rates are to some extent lightening burdens, we are not going to ween many tears even if the British manufacturer at a distance of 2000 miles is smart enough to capture a share of the trade.—[J. A.

Karm and Home.

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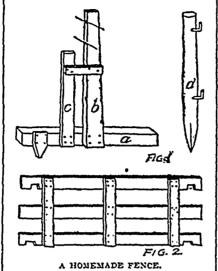
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HANDY A)ID PORTABLE FENCES

There are several kinds of movable fences, the general utility of which will commend them to the attention of farmers. Fig 1 shows two supporting de-



vices, either one of which may be used

vices, either one of which may be used to hold the panel shown in Fig 2. To make the device in Fig 1, take a piece of 2x4 or 3x4 scantiling a. 4 ft long, and nail on one side a piece, b. of 1¼ in material 4 ft long, 5 in wide at the lowerend and 2½ at top: the piece, c, is 2x1 in. 3 ft long. These uprights are connected by a crosspiece at proper hight and are just far enough apart to admit the ends of two panels, which rest on the base and the crosspiece. The panels may be made of 16-ft fencing boards, and the movable fence will be suitable for confining hogs, and with a couple strands of wire itretched above pai els, will be high enough for cattle.

The device, d. in Fig 1 is still easier to make. Taking posts 4 to 5 ft in length, sharpen one end and bore two ½ in holes in the side of each post, about 3 in deep, and at suitable distance apart. Take an iron rod, ½ inch in diameter, heat and bend one end into a 2-in right angle, cut off this hooked end, leaving 5 in of a straight shank, and make twice as many of the hooks as there are to be posts in the fence. Drive one in each hole in posts, leaving a space of 2 in between post and angle of hook. These posts should be made and finished complete whenever the farm work permits and if the panels are ready, it is short work to drive the posts into the ground and hang the panels on the hooks, making a very convenient fer ce. Of course, the posts can be of any dimensions, and the panels can be made different from those used with the device a if it suits better the farmer's purpose when constructing used with the device a if it suits better the farmer's purpose when constructing the fence.

Another fence which is very handy Another fence which is very handy and can be moved from place to place is made by taking three 2x4 scantlings, each about 4½ ft long, and three 16-ft boards for the panels, and setting up when finished in

zig-zag fashion, as shown in Fig 3, using an iron ring on end pieces to hold panels in po-sition. If desired but two boards may be used to

but two boards may be used to make each panel, and a couple of strands of wire used to take place of middle board. Panels for this kind of movable fence can be made from light poles. 12 or 14 ft long, using four shorter poles in each panel for crosspices when nailing together and this makes a light, strong panel. Fig 4 shows the invention of a western farmer, and it may be found useful to the farmer who has plenty of old fencing rails for making a straight and semi-portable sence. The base piece is a 3½ ft scanting of any reasonable breadth and thickness, and the uprights nailed to it are similar to the plece of in the device shown in Fig 1, Leave space

between uprights to allow ends of rails to be inserted; brace with wires as il-lustrated. Build the fence five rails high, below where wires cross, and put high, below where wires cross, and put sixth rail on top of wires, pressing it down to tighten them. When stretching wire above panels, to make the fence cattle-proof, never use barbed wire. Animals which smooth wire will not retrain are not adapted to be confined with portable fences, and I consider barbed wire unnecessarily cruel in every case where used, no matter what kind of fence.—[J. G. Alishouse, Armstrong Co, Pa.

ECONOMY IN MANURING.

Land should be well supplied with humus or vegetable matter. This can be done most cheaply by growing cow-peas or clover and turning them under. Too much of such crops will sour the land. As an offset, a dose of slaked Too much of such crops will sour the land. As an offset, a dose of slaked lime, say about 40 bu p a, should be applied about once in 5 yrs. The lime will not only hasten the decomposition of the organic matter, but will also unlock some of the latent plant food in the soil, notably potash. By a thorough system of cultivation, the physical condition of the soil can be greatly improved, enabling the air to have more free access, thus causing exidation and the soil water to percolate more freely. This will dissolve the mant food and move it about in the soil so as to be readily available to the roots. There are only three ingredients of plant food which have to be considered in feeding the soil These are phosphoric acid, potash and nitrogen. The lastnamed can be furnished by clover or peas, while the other two can be purchased cheaply on the market in the form of acid phosphate or bone for phosphoric acid, and muriate of potash or sulphate of potash for potash. These materials should be applied directly to the land, to be sown to clover or peas, so as to insure a heavier growth and thereby a larger absorption of nitrogen. [Bryan Tyson, N C.

EXPERIENCE AGAINST THEORY

I have read much of late on the subject of like producing like, or natural laws as applied to agriculture. I be leve in natural laws, I believe in accumulated knowledge, but reject the idea of all knowledge being accumulated

in natural laws, I believe in accumulated knowledge, but reject the idea of all knowledge being accumulated upon general-principles or limited scientific investigation. Practical experience has gone a long way toward obtaining facts and accumulating knowledge. Theory without practice amounts to but little, and imperfect investigation of natural laws often leaves us in the dark. We have certainly learned but little from scientific investigation in reference to the cause of cheat from wheat, oats, barley, etc. Attempts have been made to do so but have thrown but little light upon the subject.

Men of learning, close observers and students of research, many of whom once ridiculed the idea of wheat, rye, etc. being converted into cheat or chess, have stopped their ridicule and freely confessed there is something in it. We must have a clearer conception of the phenomenon. Have scientific investigators entered into a practical test of this mooted question? Or have their declarations been made upon general principles of like always producing like? Agricultural science has too often ignored the import of accidental occurrences. I strongly maintain that like does not always produce like If the laws of nature are inverable what would become of the evolution theory? If the laws of nature we inflexible, how could the higher type of vertebrate life been developed from the lowest, which is claimed by some of our most scientific men? If they are inflexible, what would be the character of our tomato to-day, and our potato, and many other vegetables which have been prought up from so low a type that once they could not be utilized as food? Their characteristics have been entirely changed. And if change to a higher life can and is made, why cannot an arrest and a revision of her laws take place by some accident? I am clearly of the opinion. "That this world is not governed by chance:

By laws every action is bound:

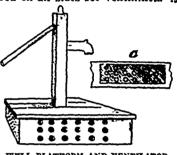
wheat, oats, barley, timothy grass, & No scientific or practical minded ma can believe in the inflexibility of nature can believe in the inflexibility of natural laws. Uninterrupted natural laws bring unerring results. But when interrupted, deflection takes place and often red, deflection takes place and often reversion, an effort to return to the original type or species. Under my own observation I have seen when sown free from all impurities and a land where cheat had never been seen and as the wheat was about in the "boot," sheep had broken through an eaten it off in a complete circle before discovered, and to the exact line of their ingress nothing but cheat was matured. matured

matured.

Another case: A field of heavily tig. bered land was cleared and planted a corn. Next year it was put in when and all around the fence next to the woods where rabbits, squirrels, etc. has eaten it off, nothing was matured by cheat. These are facts founded on pasonal observation and facts which I claim cannot be successfully controver, ed. A little more practical experient and less scientific theory and we wasted much closer to facts.—[R. Reeves, Buncombe Co, N.C.

VENTILATE THE WELL

The illustration shows a plank frame covering the well, with small hold bored on all sides for ventilation. The



WELL PLATFORM AND VENTILATOR

holes of each plank should be covered by a piece of wire mesh or netting a shown at a, to keep out animals as insects. Put the wire netting insidethe

CULTIVATORS IN A CORNFIELD

Four acres of land were divided in tracts of one acre each at the Nd exper sta, and each tract was cult vated by a different cultivator, the vated by a different cultivator, it same one being used on each throughout the summer. The cultivators used were a corn plow, to represent the description of cultivation, and the spray tooth cultivators. In the fall the errowas picked from each acre and weighed. The yield was for deep cultivation 59 bu p a, for shallow cultivation 69 bu. The land receiving shallow cultivation was surred to a depth of 3 in, that receiving deep cultivation 6 in.

3 in, that receiving deep cultivation 6 in.

Shallow cultivation for corn possesses two advantages over the other method. By stirring the soil to a depth of only 3 in the air does not penetrate so deeply, and it does not dry out to such a depth. A study of the roots of the corn plant show that many of them would naturally grow within to 4 in of the surface, but when the upper layer of soil is dry they cannot obtain any nourishment from this 1.75

OUR ADVERTISERS.

It is the intention of the publishers of Farm and Home to admit into their elements none but reliable advertisers, and we believe that all the advertisements in this paper are from such parties. It subscribers find any of them to be otherwise, we will esteem it a favor if they will advise us, and we will at any time gire out personal attention to any complaints which we receive. Always mention this paper when answering advertisements, as advertisers often advertise different things in several papers.

******************* The circulation of Farm and Home for this issue is

300,300 Copies.

I am clearly of the opinion
."That this world is not governed by chance;
By laws every action is bound;
And back of each strange circumstance
A reason may ever be found."
And so back of this phenomenon a reason may be found; a cause for this mysterious appearance of cheat in

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tion of the ground. Another injury to the corn crop from deep cultivation is the tearing at of the corn roots by cultivator sl vols. By pruning these roots the ablacty of the plant to secure nourishment is greatly hindered and the crop injured thereby. It is very important that the cultivations should be sufficiently frequent to prevent a hard crust from remaining on the ground for any length of time. ass, et ed ma naturi 8 bring errupt-ten ret where ground for any length of time. n seez in the sh and befor line of

FARM NOTES.

Cleanings from the hen house is one of the best manures for pumpkins and similar vines; it also benefits the hen

similar vines; it also benefits the hen house to be cleaned once or twice a month but daily cleaning is best.

Early planted corn is best. Corn needs much moisture to mature good ears. Most farmers quit cultivating corn when it should be herrowed, lovelled between the rows to retain moisture. It's hard on one horse, as the corn is as high or higher than the horse, but as only one horse can be used at a time he should be rested at each turn.

Plant cowpeas between the corn rows with a one-horse planter. In absence of

Plant cowpeas between the corn rows with a one-horse planter. In absence of a planter mark with a single shovel plow and drop by hand. Cover with one-horse harrow.

One of the best and cheapest rough hays for stock is sorghum cane. Sow after corn is planted in June, 1 to 2 bu seed pa. On rich soil 2 bu will yield 3 to 4 tons pa of fine hay. If too thin on rich land, stalks will grow too large, will be hard to handle with a pitch fork and not so good for feed. Both sorghum and Kaffir corn planted thin for seed grows stalks too large to be good feed excepting the blades.

Millet makes a good hay if cut before quite ripe. Sow in June or July. Early sown is more liable to be killed by rain, also liable to grow more weeds. Ripe millet seed is injurious to brood mares and cows and no better tegg producer exists.—[Jacob Falth, Vernon Co, Mo.

Broom Corn-Living in the midst of the broom corn district. I have never seen so much excitement about planting seen so much excitement about planting broom corn as there is this season. During the past 20 yrs every time broom corn became high in price every farmer in the section wert to raising it and by the time the crop was made the corn was down below the cost of production. Many men have lost a considerable amount of money in raising broom corn, and several have been "broke" financially. When only a small section of country raised broom corn, it generally brought a good price, but the broom corn area has been so extended in recent years that with anything like a full crop there will be enough produced to supply the demand for 2 or 3 yrs. With a good crop, 112,000 acres will produce all the broom corn we have a demand for. It looks now as though there would be four times as much planted. In Kan, 27,000 a were planted in broom corn in 1899, while in '95 there were 134,500 a. The '95 crop sold as low as \$20 p ton. Considering the rent of land, cost of handling, marketing, etc, the crop will cost \$20 p ton to raise. It is thus possible for farmers to lose a considerable amount if the crop is a big one. Our demand for broom corn is about 20,000 tons per year, and from present indications it locks as though lil would plant enough to produce that much alone, to say nothing of Tex, Okla, Kan and Neb. It will pay farmers to post them om corn as there is this season. say nothing of Tex, Okla, Kan and Neb. It will pay farmers to post themselves thoroughly before planting extensively of this crop.—[P. C. Phelps, Mari all Co, Kan.

All Colonies of Bees should now be good and strong, especially if stimulating feeding has been done during the ing feeding has been done during the past month. The fruit trees are now showing fast signs of coming to blossem. Have your supers for comb honey ready to put on if you wish to obtain the finest grade of honey. We have clovers and other varieties, but have made a practice for some years to get a first crop from fruit blossoms. I can positively say that the finest grade is obtained from fruit blossoms. It is more than worth trying. The crop may be small, but rich in value.—[J. H. Denyer, Northampton Co, Pa.

To prevent the leaf spot of beets, use the bordeaux mixture, applied half strength. It can be applied with a horse sprayer, wetting six rows at a time.

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. New Chi-Cincin-Nor-Mem-SFran-Mon-Lon-

		ton	York	cago	nati	leans	phis	cisco	treal	don	l
į	May	5	5	5	4	4	4	4	4	14	l
ı	Wheat, p bu,	-	.7314	.6514	.73	_	_	f1.00	.68	.81	ı
ı	Corn, p bu,	.48	.451/2	.391	.42	.48	.48	11.03	4734	.57	ı
į	Oats, p bu,	311/2	,28	.23	.26	.32	.34	11.15	.321-	.47	l
ļ	Ryo, p bu,	.66	.56	.63	.6314	_	_	†1.00	.0214	_	ĺ
	Barley, p bu,	.51	.53	.45	.50	_	-	1 .85	.50	_	l
	Flour, p bbl,	3.9.1	4.30	3.90	3.90	4.00	4.50	3.75	4.00	4.00	ı
	Cotton, mid upland, plb.	.0312	.03%		.005	.001	.033	_	_	.11	ı
	Cattle, p 100 lbs l w,	6.50	5.85	5.75	5.35	4.50	4.00	4.20	_	0.12	ı
	Sheep, p 100 lbs 1 w,	6.00	5.85	5,60	5.40	5.00	4.50	4.40	_	H.14	ı
	Hogs, p 100 lbs i w.	5.75	5.60	5.35	5.45	5,75	4.50	5.90	6,00		ı
	Veal culves, p 100 lbs l w.	5.50	6,00	7.25	6.25	5.50	5.00	5.40	_	_	ı
	Towls, p lb d w,	.12	(1914	.09	.0814	\$4.50	‡3.25	‡5.00	_		ı
i	Buttor, creamery, p lb.	.20%	.20	.1914	.20	.21	.25	.17	.1634	.19	ı
į	Cheese, factory, p lb,	.12	.1214	.1014	.1215	.1314	.1314	.15	.111/2	.1314	l
ļ	Eggs, p dz.	.15	.14	.111/2	.11	.001-2	.101/2	.1514	.113	.151,2	ĺ
	Apples, p bbl,	5.00	5,00	4.75	4.75	5,50	5,75	92.00	5.00	— -	ı
	Hay, p ton,	17.50	18.00	13.00	15 • 0	18.00	16.00	9.50	10.00		ı
	Straw, rye, p ton,	15.00	15.00	8.50	7.00		_	-	5.00	_	ı
	Hops, p lb.	.14	.14		-			.10	.13	.161/4	ı
	Onlons, p bu,	1.00	.60	1.00	.95	1.25	1.50	16.00			l
	Potatoes, p bu,	.50	.65	.35	.47	.60	.60	1 .75	.35		ı
	Beef, p lb,d w,	.081/4	_	_	_		_	.07	-	-	ŧ
	Pork, p lb, d w,	.0634	.07%	.06	-	-		.081/4			l
	Lard, y lb,	.081/4	.07%	.07	.071%	.081/4	.0814	.001/	.10	.08	l
	Hides, p lb,	.07	يَدُون.	.0319	051	.071/4	.071	.10	.00	_	ı

†Peental. :Paz. *Pbx. #Estimated dw.

Business Side of Farming.

CROP ACREAGE AND OUTLOOK.

Farmers have made generally excelent progress in seeding operations this sprint. Corn planting is now underway, moving north rapidly, and unless unexpectedly delayed will so n be completed. All the big staple crops will start out with every reason for anticipating liberal harvest returns next fail, pro-viding weather conditions are favoraliberal harvest returns next fall, providing weather conditions are favorable. Autumn sown wheat came through the winter in good shape; some complaint from a few states. Farmers in the northwest have been favored with an early spring, enabling them to seed wheat rapidly, and Minn and the two Dakotas will show a heavy acreage. Fair winter prices and a healthy condition of the market insure a liberal area under corn, especially as the demand is so great for feeding to live stock. A liberal oats acreage is noted, the crop now making good growth where early sown. Cotton planters have suffered some delays, but the excellent prices mean a liberal total acreage.

So far as special crops are con-cerned, unusual interest is this spring manifested. Flaxseed has for months sold at the highest price in years, and the west will have a big acreage. A doubling in the price of broom corn will stimulate seeding in that specialty. Onions have been rather low, but last year's splendid crop made money for farmers A sharp advance in beans the past win-er-means a large acreage in Cal, Mich, N Y, Me, etc. It is altogether too early to talk of overproduction, even should climatic conditions prove auspiclous from first to last, Our export trade is splendid, and will con-

prove auspicious from first to last. Our export trade is spiendid, and will continue to absorb an important part of our farm surplus.

INDIFFERENT GRAIN SUPPORT

May sunshine and shower and advices of rapid seeding have not been conductive to strength. Wheat has sold close to the lowest prices on the crop, on the basis of 65c p bu at Chicago. But the bear element is not particularly aggressive, because the next crop is by no means made, and stocks of old wheat are being whittled down rapidly through home and foreign requirements. The recent strength in corn, when the market advanced well above 40c p bu, has given way to more easiness through increased offerings, yet the market is May sunshine and shower and ad-

healthy, distribution large. Oats and meanny, distribution large. Oats and rye are inclined to follow corn and wheat respectively, and barley is dull but steady to firm. Flaxseed has sold at the highest price on the crop, \$1.76 p. but for No.1. p bu for No 1.

GOOD PRICES FOR STOCK CATTLE

Farmers are paying all the way up to \$5 and better for selected feeding steers at Buffalo, Chicago and the Mo river. at Buffalo, Chicago and the Mo river. This indicates the falth pinned to the cattle feeding industry, corn growers evidently making money in converting grain into beef. The market for fat cattle is fairly active and steady, although without particular firmness. The export trade in live steers and dressed beef is large, and so with the home consumption.

American Corn at Paris-A feature of the U S exhibit at Paris will be the practical demonstrations of the food practical demonstrations of the food value of corn by means of an exhibit. All the varied forms of corn foods will be prepared in full sight of visitors, and samples distributed free. The work is under the care of the dep't of agri, and the demonstration is being prepared by the America. Maize Propagenda. This practical education of the European races should result in an increased demand for our corn.

Maple Sugar Is Higher in the eastern markets than usual. The crop in N. E. proved unusually light and buyers in the country readily paid 9@10c p lb, or perhaps 2c better than usual; special trade 12c. Sugar orchards in northern N. Y. O and Mich yielded fairly well.

Turnips in Carloads-H. E. S., Mich: Unless you can sell turnips and potatoes in your local market, consign to toes in your local market, consign to a reliable comn ission dealer in Chicago or other large city. It is difficult to dispose of a carload of turnips through other channels. The dealer receives and peddles these out to retailers in lots of one to three bbls; in the markets rutabagas are often classed with turnips.



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will paint his house, barn, sheds and with paint his house, barn, sheds and fences with Magnite when he learns how easily and cheaply it can be done. With Weather-proof (rain-proof) and Interior Magnite you can paint outside and inside at a quarter of the cost of oil paint. Magnite can be used by anyone.
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The Poultry Yard.

TURKEYS ON THE FARM.

When turkeys my three hen had laid their first laying, I broke up two, setting the oth-er one on 15 eggs, making the nest so that the eggs lay flat, not rolling on each other, and setting the rest of the eggs under hens, so they would hatch about the same time with those under the turkey, then I let the hencoop he

the turkey, then I let the hencoop be near the turkey's coop, so the voung ones would be by the turkey in the day fime. This turkey coop needs to be large, but I let the hen cover some of the little turkeys at night.

Keep the old turkey quiet, but the young need liberty, and they must be kept dry in rainy weather. When they are little I give each one a drink of milk, and give pepper and milk to drink every day, keeping a small dish setting by them. Feed bread and milk with pepper in it. I see that they all eat or drink every day. I feed much curd, made from thick milk, Cracked buckwheat is excellent when they are old enough to cat a. I fend buckwheat once a day and clamshells pounded enough to cat a. I find buckwheat once a day and clamshells pounded

quite fine
As soon as they are large enough, I get them to roost in a tree, then they need less care, feeding only 2 or 3 times a day. When the other two turkeys had laid then second inters, I set them both, taking out all the old straw and putting in new before placing the eggs in the nest.—[S. E. Miller, Albany Co. N. Y.

AMATEUR TURKEY RAISING.

A man who knew nothing about poultry consulted a turkey raiser and began work. He took an old wagon bed without bettom and with pieces of boards made the sides 2½ ft high. One boards made the sides 2½ ft high. One edge of the pen was over a chip pile where five or six pans of ashes had been piled. Two-thirds of the inclosure was over bluegrass sod. One-half of the pen was roofed over so as to keep out rain and the remainder was covered with wire screening so as to admit sunshine. Into this commodious and elegant cholder the mother turker. admit sunshine. Into this commodious and pleasant shelier the mother turkey and her 12 little ones were placed about May 20. An old dripping pan placed under the edge of the coop was filled with clean water once or twice every

day.
The mother turkey was fed wheat and corn, while the young ones received nothing but cheese made from sour milk. There was plenty of room in this inclosure, plenty of light and sunstine, and as the young turkeys were ling can be done for them and they are

Watching Chicks at Exercise.

A common cause of sickness and loss among early chickens is lack of exercise. Young chicks require constant activity just as growing children need an inverse amount of exercise to keep them in health and vigor. In H. H. Stoddard's back, the New Egg Farm, several devices are described for keeping the h. hes at work. The one shown in the illustration was exhibited at a fair in Nebraska. The chickens are kept running from one end of the jard to the other by means of a clock work arrangement, which at intervals shakes grain into the litter.

able to get out and go about the yard they did exceedingly well, not one of them being injured by lice or dewy grass. The old turkey was not let out until the latter part of August, at which time the young ones were sufficiently strong to stand any kind of weather.

HINTS IN HENOLOGY.

Bran is a good laxative food for young chicks.

Notice which hens lay the largest Sometimes the largest hens lay

eggs. Sometimes the largest hens lay smallest eggs.
All nests should be movable. Lice collect behind permanent nests and give a great deal of trouble.
After the hatching season, all surplus cocks should be marketed, as their food is a total waste and is quite a serious item of loss.

cleanliness and pure water are important items in prevention of cholera and bowel diseases. Don't let the drinking water stand in the sun.

The great mistake of beginners is to

attempt a large number of breeds. POULTRY FEEDING DEVICE.

Fowls waste much food, and make unfit for eating much more, by getting



COVERED FEED TROUGH.

into the dishes coninto the disnes con-taining their ra-tions. Many devices have been arrange 1 to meet this trou-ble. An excellent one is shown in the illustration. The

TROUGH. illustration. The top is hinged, and so can be raised to put the food inside. The fowls can then insert only their heads at the sides and ends. The roofshaped top, having a sharp apex, affords no chance for getting upon, the feedbox, and remaining there, as is the case with flat-topped covers. This device will also aid in keeping the hens from pecking at each other when eating, as the space for moving their heads about is limited.

Advantage of Brooders-Allowing that a hen will bring up 20 chicks in good shape it would take eight hens to bring up our incubator hatch of 200. Now put the chicks in three brooders, so they won't be crowded, and the oil will cost for the lamps about 3c per day How much less can you feed the eight hens for? I never saw a louse on a brooder chick and I raised about 1000 in '96. So that does away with dusting for lice.-[H. O. Allen, Vt.

hardly worth keeping alive.—L. H. W.: Gluten meal is a good poultry food if fed with plenty of bran or other bulky matter. Storrs exper sta poultry department says artichokes, if cut up fine, or cooked and mixed with the morning mash three times a week, are all right.—S. R. C.: The R I Red breeders at their meeting during the Boston show voted to disqualify the pea comb and appointed a committee of five to revise the existing standard and report at the next annual meeting. and report at the next annual meeting.

Buff Leghorn Experience-No new variety has ever taken a stronger hold on the admiration



of fanciers as well as farmers. I started with a trio: the two hens were a lit-tle too light in color and the cockerel was a go I buff with a little dark in the tail, and I bred from

tall, and I bred from them the following season about 30 good birds. Every hen was a true Cochin buff, the cockerels did not run so well in color, but I do not think the Buff Leghorn will, if properly bred, show any larger per cent of defective birds than some older breeds. They are similar to other varieties of Leghorns and are superior in some respects, being somewhat larger and laying a larger egg, and yet holding to the true Leghorn type.—[W. G. Jamison, Pa.

The Luxury of Fresh Eggs-There are too many farmers who fare sumpare too many farmers who fare sumptuously on eggs in their various palatable forms who never for a moment take time to think how much money they would necessarily expend were they obliged to purchase this same healthful, strength giving food.—[O. D. Schock, Berks Co, Pa.

Free Meat-Spade up the runs or let the fowls follow the plow in the field. best kind of fresh meat supply is right underfoot.

Best Chick Food-The trouble with raw corn meal dough is that it often causes several kinds of bowel disease, especially if allowed to get sour. Bake the food or feed dry, granular oatmeal for the first few weeks, supplying plenty of water to drink.

Feed wisely, plentifully and regularly. Keep water always before the chicks, Guard carefully at night.

A Very Large Business has been built up by some of the carriage and harness manufacturers by dealing direct with the consumer, this plan of operation having a big saving to this class of people. The last company to enter into this plan is the Kalamazoo carriage and harness company of Kalamazoo, Mich, and if the goods they manufacture are as nice as their catalog would have them look we are sure they must be up to the highest possible standing. We have no doubt but what this is the case, for this company are strictly manufacturers and not jobbers, and every vehicle they sell is produced in their own works and is guaranteed. The catalog is a handsome one, and we would advise the subscribers of F & H to send for it. It is sent free if you mention this paper. Address them as follows: Ka'amazoo carriage and harness company, Kalamazoo, Mich. rect with the consumer, this plan of opmazoo, Mich.



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Sheep and Swine. LAMB FEEDING IN COLORADO

The lamb feeders of Col are meeting with unusual success this year, and the losses they sustained last year will be losses they sustained last year will be more than made up. Larimer Co is feeding about 190,000 head against 225,000 last year. The number in the state, however, is probably larger than a year, it being estimated at 600,000 head. Northeastern Col, and notably Morgan Co, is taking rapid strides in the industry. Southeastern Col is also making a good showing. good showing.

good showing.

Lambs for the feeding pens were bought at better figures than last year. Then followed a most favorable winter, with both hay and corn at living prices. The only unfavorable features have been the poor quality of much of the alfalfa hay and the exceedingly heavy fall of rain and snow during late March and early April. The rainfall in the Poudre valley since Jan 1 amounts to more than 7 in, almost double the normal, and most of this fell in April. These storms put an almost immediate stop to the growth of lambs and also hastened shipments to market, a fact that doubtless had the effect to depress the market.

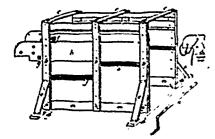
stop to the growth of lam's and also hastened shipments to market, a fact that doubtless had the effect to depress the market.

Besides the effect of the wetting of the fleeces, the feeding pens became sodden with excessive moisture and in some cases absolutely flooded, so that the lambs had to be removed to other pens standing on his, her grounds. Feeders did what they could to relieve the situation, but the storms came in such rapid succession and were so heav, that remedial measures were only partially effective. The measures resorted to were frequent bedding with dry straw, the digging of drain ditches and the plowing up of the ground inclosed within the pens. An aim of entirely new problem was presented to feeders which they will no doubt take measures to solve in the future.

In one case sheds were caved in by heavy snown and about 75 head of lambs either killed or main 3d. Roads leading from the feeding pens to the railroad stock yards also became very muddy and shipments were difficult, and the lambs when arriving a the cars were heavily encrusted with mud. But these drawbacks have had serious effect and feeders are rejoicing over the best run of prices known, the history of the industry in Col. The prices have averaged considerably over 77 per 100 lbs in Chicago markets, while there were spurts as high as \$7.50 and 7.55. It is conservatively extinated that the net profits to "e lamb feeders in northern Col this year will amount to at least \$400,000. April 15 only about 50 per cent of the lambs had been sent to market. Some very large single shipments were made from Fort Collins, a train in some insances numbering 45 double decked cars going out behind two powerful freight engines. Of course Chicago gets the great bulk of the product, with South Omaha and St Joe taking a part.—III. A. Crafts. Chleago gets the great bulk of the product, with South Omaha and St Joe taking a part.—[H. A. Crafts.

DEHORNING MATURE CATTLE

In the work of dehorning mature cat tle, it is essential that they be securely held. The best plan I know of is by means of a rack, as illustrated, and



in to extend in front to tie the animal's

in to extend in front to the the animal's head to. Then heard up the sides nearly solid except for two slats, the lower one, to put a heard, f, I ft wide, through, to prevent failing down while dehorning; the slot, f, being used to put a windlass, k, through, to draw the animal to the front of the stock.

Nail two strips on each side to top of uprights, each 1x4 in and 6 ft long. Then spike on two 2x4 in pieces 5 ft long, d, across each end of the frame at the ends and on the bottom. Let them ext end out I ft on each side. Escachem firmly as shown at c. The head of the animal is fastened with a rope through the holes shown at protruding of the animal is fastened with a role through the holes shown at protruding end of board h. A peg is inserted under the animal's neck at g. The windlass is attached to the rope about the animal's head and the head is drawn down close and tight against the board h.—[J. M. Tanner, Butler Co, Ky.

When Weaning Pigs shut the sow up instead of the pigs. She needs rest and will gain faster on a corn and water diet. If penned than if running a-field. Let the pigs run; they need the

Sisal Grass for Tying Wool is discountenanced by some buyers, as some of the fiber adheres to the wool and follows it through the manufacturing process. A smooth, hard rope is recommended.

Hog Packers Conservative-At the which carried hog recent advance, which carried hog prices to nearly 6c, the slaughterers in western packing centers have shown unwillingness to take hold freely. Prices have receded fractionally under liberal supplies, but the market is in every way healthy and encouraging.

Breed and feed affect the value of wool from the man facturers' standpoint. Indiscriminale rossing is unprofitable. A sheep porty nourished cannot produce a healthy fleece.

A small linen, flax or bemp twine is less for tying wool.

best for tying wool.

Coarse, heavy paint marks should be avoided in marking sheep.

Salt sheep in the pasture. Sheep require as pure water as a

Making the Farm Pay.

Thorough Cultivation Pays -An inch of rain on an acre of ground weighs 110 tons and yet all this weight will evaporate in a short time if allowed to do so. Water comes out of will evaporate in a short time if alfwed to do so. Water comes out of
the ground just as oil burns out of a
lamp. It is drawn up through small
capillary tubes by the heat of the sun
If you could reach in and cut the wick
of a lamp between the oil and light, the
light would at once go out and the oil
buteft in the lamp. Cultivation of the
soil breaks up and rearranges the
tubes, preventing the water below from
escaping until another rain reforms
trose tubes so that the ground ought
to be cultivated after every rain, especially after every beating rain. Where
a harrow can be used it is a good thing
to break up this crust as in a corn
field, but in a garden a harrow is too
heavy and not high enough to run over
tender plants. A Hallock weeder is
just the thing for this work. It is 12
If wide, having three rows of spring
teeth that are 8 in apart in the row
and about the same the other way. The
teeth are flat on top and round at the
hottom.—[C. E. Kittinger to 8 D Hort
Society.

The Miller's Toll-I worked in grist and merchant mills 30 yrs ago. The varieties of wheat raised in these parts which I have used with hundreds of head of stock. For its construction, take two scantilings, a a, 2x6 in by 6 ft. Bore three 1½ in holes through each piece, one in middle and one at each end. Put in three rounds, each 3 ft long, which makes the main frame. Bott on six upright pieces, b, 2x4 in and 5 ft high, one at middle, the other two at ends, on each side. Mortice or bolt on three crosspieces, c, at the top of uprights, each 3 ft long, to keep sides from spreading. Then hall on two oak planks, 3, 3 ft 10 in above the main frame floor, 1x13 in by 7½ ft; allow 13

made now under the new precess, there should be a greater yield of flour. Wheat skins or bran may be thicker now and therefore heavier than when talsed on the yingin soil when the country was new. Do the readers of F& II believe there is anything to this? Perhaps the new process modern miller will throw some light upon the subject.—[G. II. Davey, Rock Co, Wis.

Tobacco must have good size to command good prices. Short tobacco sella for short prices. Poor land or poor for short prices. Poor land or poor cultivation makes short tobacco. Lugs or all kinds of defective leaves sell low. It requires good land and good cultivation to get good leaves. It requires good leaves and proper firing and handling to make a fine, finished tobacco. A common crop raised and bandled in a haphazard way never pay: for raising. A small crop of good, fine, well-finished pays much better than a large crop

of common. For export purposes a large majority of countries using American tobacco want dark colors. Good sound leaves, nicely cured and of good size always pay the planter a profit.

Oxeye Daisies can be exterminated Oxeye Daisies can be exterminated if not allowed to blossom. Its seed will not germinate until 12 days after the daisy blossoms, so it is safe to begin haying of daisy infested fields about a week after the daisy begins to blossom. I'ut daisy hay is as rich as the best timothy in nutritive value.

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Dairy and Creamery. THE FARMER'S COW.

Of the two chief dairy breeds competing for the patronage of mak producers in America, the Hoistem-Frieslan and Channel Islands cattle, that breed must eventually prevail which proves itself best adapted to the wants

breed must eventually prevail which proves itself best adapted to the wants of the great plain people—which proves itself a on-siness breed for bestness men. Wealthy men who are in no way dependent upon their country property for an ...come can afford to take up a breed of cattle as a tad, just as they can afford to stock their parks with deer; but the common farmer and dalryman who is not in the business for his health but for his livelihood, in order to succeed must have that breed which will return the largest net profit for labor, investment and feed.

In its efforts to aid the thinking fit mer in the selection of breeding stock for the improvement of his head, the Holstein-Friesian association is ever at the front. Its official tests are not made by the forenten of wealthy owners, or by the owners the mes lies but by the officers of the various state experiment stations and so vouched for. Nor is the cow credited with an indefinite amount of water, salt and caseine as butter; but every milking is test of for butter fat with the Babcock test and the cow credited for butter on the basis of the amount of butter fat she has produced. The buyer does not have to take the sellers word; the state vouches for everything. In the light of hundreds of these official tests, the results attained having completely build the only really efficial tests of Jerseys known, those of the World's fair the Holstein Friesian has proved itself the greatest of butter breeds; while its supermacy in milk production has never been denied. premacy in nelly production has never been denied. It was formerly asserted by those in-

been denied.

It was formerly asserted by those interested in rival breeds that while the Holstein-Friesians might give very large quantities of milk, yet the milk was thin; but this criticism was largely the result of ignorance for everage Holstein-Friesian milk will compare favorably as to butter fat with that of the average cattle of the country while as to quantity there can be no comparison at all. With the lowering of prices for milk and its products, the vealing of surplus calves becomes of more importance, and there is no veal that will compare with Holstein-Friesian, or its grades. The calves are large to begin with grow rapidly and fatten readily, so that at four to five weeks old they dress from 100 to 120 lbs. As to beef, no sane man would chaim that dairy cattle make the best; but if a Holstein-Friesian cow or helfer meet with misfortune, and lose the use of a part of her udder, she does not have to be buried, or to be almost given away as a "canner, for the local butcher is always glad to get her at a fair price and she makes excellent beef. Strong of constitution, and not dainty as to feed, for milk butter cheese veal, and dairy beef the Holstein-Friesian cow stands high in the estimation of business farmers and dairymen.—[M. H. Gardner, Wis.

TWO GOOD SOILING CROPS

Along the her of progressive stockkeeping, soiling crops have become in-dispensable. No stockman worthy of the name depends solely on pasture and meadow. During July and August the richest pastures dry up, leaving nothing but war and woody blades and tufts for stock to feed on. The result nothing but soar and woody blades and tufts for stock to feed on. The result is a marked decrease in the milk flow, necessitating the feeding of costly grain and meal or other substitutes. The swine equally with the cone feel the effects of the dried and burnt-up pasture, for the decreased milk flow from the cows reduces the swine ration proportionally.

from the cows reduces the swine ration proportionately. Green solling crops make a good substitute for skimmilk in feeding swine Sow crops which may be cut and fed to animals to supplement the pastures. Corn will not answer, as it does not come early enough. Several crops do well in warm elimates, but do not answer in our more northerly regions. Two crops, however, answer for a very large portion of the country and are as nutritious as any, besides making large growth Peas, oats and vetches, a bushel of each per acre, sown broadcast not later than May 15, and covered with disk harrow, may be cut for cows and pigs eight weeks from sowing and a Used the hay tea to warm the milk.

second cutting may be taken from what was first cut sometime later. Vetches is a crop not much used. The seed is

is a crop not much used. The seed is fairly cheap; all the leading seedsmen keep it in stock.

A good second crop for sowing June 15 to 25, is barley and pens, 1½ b. of each per acre. For this crop any mellow piece of ground answers, if kept cuitivated once a week. Both the peas cultivated once a week. Both the peas and the barley may be put down fairly deep, about 3 in will be right. They may be put in to this depth with the disk be row in the absence of the drill. For A gust cutting this crop will be found the very best. Much is said fately about rape, but barley and peas will be found a strong competitor of this crop w thout the trouble of cleaning and cult sating.—[J. O. MacDonald, P. E. I.

WT Y A SEPARATOR PAYS.

A b hind-the-times practice is that of carrying whole milk to the creamery, either by a single milk collector or by every dairyman carrying his own milk. The editor recently visited a Vt creamery where each Patron delivers his own milk daily. Each dairyman has to have his milk ½ to 6 miles or more each day. This is a most foolish frittering away of valuable time. If the average time consumed by patrons in delivering milk is one hour per day, at least 25c per day should be charged for time, use of horse wagen etc. This amounts to \$1.15 per week or \$1 per year. If the escamery has \$5 patrons, this amount would represent 5000 as being spent in hauling milk. A single good collector could probably be hired for less than one-fifth of this amount. The editor recently visited a Vi cream-

could probably be hired for less than one-fifth of this amount. A first-class hand cream separator can be bought for \$125. If a separator was put in, the discontinuance of teaming the milk alone would more than pay for a separator for each patron of this Vt creamery in two years. Again fresh warm milk is in the best possible condition for skimping and a larger fresh warm milk is in the best possible condition for skimming and a larger per cent of cream is secured. The fresh, sweet separated milk is also the best for hog or calf feeding. Again if crea-only is received at the factory, the in-vestment in apparatus can be consider-ably reduced. The small hand farm separator is becoming very popular in creamery sections and its effective work and great saving will bear the rigid inspection of any creamery pa-

Watering Stock-now often a pail could be filled and set out for young



stock and poultry were it not for their were it not for their tipping It over. Sharpen a long stick of some strong wood and when the pail is set out drive the stick beside it inside the handle. This will do for calves, lambs, colts and even poultry. Don't allow the pail to become flithy or the water of too long standing.

Study Your Cows closely, watch their feed box to see that they clean up their food thoroughly and are keen up their food thoroughly and are keen at the next feeding. Watch their droppings to see that no food passes through them undigested Watch results closely in conjunction with any new feeding you may try. Never make too radical changes in the character of feed. Treat your cows kindly: feed them regularly milk them at a fixed time each day, and if possible always have the same person milk the same cow.—[Valancy E. Fuller, N Y.

For Raising Calves weaned from the con one of the best appliances is a fairly hard but pliable rubber teat to fairly hard but pliable rubber teat to which is attached a rubber tube, which drops into the pail of milk. The rubber teat is attached to a standard and the pail hung on it, and all attached to a block, which can be hung up at any desired hight. The appliance works with my calves to perfection.—[Alpha Messer, Windsor Co, Vt.

At first I put two eggs in the three feedings made once a day until the calves became strong. Eggs are good to prevent scouring and my calves were very fond of the ten. Milk stands not over 12 hours, so not to let it get sour. I now have three fine, big calves running in the pasture. Have just bought three more. That will make six fine calves since Oct with one cow's milk.—[Mrs C. E. Kinney, Pierce Co, Wash,

The Milk Market in the big eastern cities is unusually firm this spring. In the B ston territory the surplus is very small, farmors getting a much better av price. At N Y, the milk exchange quotation is 24c p qt.

My Six-Legged Pig was raised from a litter of seven, dropped last July 20. Both extra legs grow from the right flank. The pig also has a double set of



A SIX-LEGGED MONSTROSITY.

urinating organs and uses both. The left front foot has five claws. The pig is healthy and will eat anything. While the picture is none too clear, the live animal looks like the rear end of a pig growing on the flank.—[Philip Kimmer, Miami Co, O.

Spray Pump that does work ef A spiny Fump that does work of fectively and whose parts are durable, being made of the very best material, is sold by the Granite State Evaporator Co of Albany, N Y. Supplies needed for spraying are also handled by this company at bottom prices.





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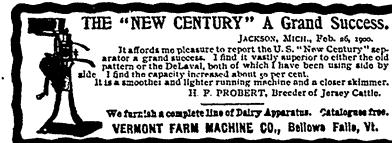
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Canadian Farm Affairs.

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[Letters from practical farmers stating briefly the conditions of crers, sales, quotations and similar items of interest are welcomed. Short, pithy accounts of farmers meetings and the helpfus points brought out may be included. New ideas and short cuts in farm work are capocially solicited. Where future prospects for a special crop are unusually bright, our readers want to know it. We have space for short, crisp, newsy jottings from each state.]

THE PREFERENTIAL DUTIES.

Much interest will be manifested throughout all the Canadian provinces in the working of the new Canadian preferential tariff in favor of the United Kingdom, as touched upon in F ed Ringdom, as touched upon in F & II, May 1 The Canadian tariff, it will be remer oered, was in '97 so adjusted that the outy on articles ent ring Canada from Great Britain was made, beginning with April, '97, an eighth less than the rates from other parts of the world. A year later this reduction in duty in favor of Great Britain was increased to a quarter, and now it is announced that on July 1, the reduction will be increased a third. This means that articles imported into Can-ada from Great Britain and cer-tain of her colonies will only be re-quired to pay two-thirds of the rates on articles imported from the United States and other parts of the world. This latest change is intended to further increase the imports from Great Britain and restrict those from other countries adversely affected by this reduction.

countries adversely affected by this reduction.

Four years ago, or during the fiscal year '96, imports into Canada from Creat Britain (the last year under the rate uniform for all parts of the world) were 31 per cent of the total imports, while 'hose from the United states formed nearly 51 per cent of the total imports. In '99, under the full effect of the 25 per cent reduction in layor of Great Britain, imports from that country formed only 25 per cent of the total imports of Canada, while those from the United States formed 59 per cent. The proportion of the total which was taken from Great Britain had thus materially fallen under the new preferential tariff, while the proportion taken from he United States showed a positive increase. A large portion of imports from the United States are raw materials for manufacture, these entermaterials for manufacture, these entering Canada free of duty and are not affected by the preferential tariff, while at the same time tending to grow with the industrial progress of the Dominion.

The following official figures show the

The following official figures show the total imports into Canada in round millions of dollars, and the amount from Great Britain and the United States respectively during the past 20 yrs. It will be observed that the imports into Canada from Great Britain, which in '80 formed 48 per cent, were in '90 scant 25 per cent of the whole, while those from the United States in '80, 40 per c... vere in '90 more than 59 per cent of the total. In view of this showing, it will be highly interesting to watch the movement of our foreign trade after July 1, when additional inducement is made to import direct from Great Britain.

IMPORTS INTO CANADA.

IMPORTS INTO CANADA.

[In round millions of dollars.]

		Imports		Imports	Per
Xear	mports	from UK	cent	from US	cent
1550	70	34	48.4	28	40.3
1881.	90	42	47.4	36	40.1
1882	111	50	45.3	47	42.3
1883.	122	51	42.4	55	45.2
1454.	106	42	33.5	43	46.9
	100	40	40.1	45	42.9
1586	96	89	40.6	42	44.7
	105	44	42.6	44	42.7
	101	39	38.9	46	46.1
	103	42	38.5	50	46.1
	111	43	39.6	51	45.9
	111	42	37.7	52	46.7
	115	٦ĺ	35.7	ธ์เ	44.9
	115	42	36.3	52	45.4
	109	37	34.0	50	46.5
	100	31	30.8	60	50.0
	105	33	31.1	53	50.8
	107	23	27.6	67	53.5
1595.	126	32	25.4	75	59.2
	149	37	24.8	SS	59.2
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A New Industry-The continued de-

per year. It has been found that the extensive peat bogs of Kent and Essex counties can be used to advantage much as peat is used in Ireland. A company has recently been incorporated and will at once begin the Lurning out of this product. It is estimated there are 100,000 a of peat bogs in the province, some bogs running 20 ft usep. Peat is superior to coal in its absolute freedom from sulphur and absence from smoke, soot, dust and clinkers. clinkers.

Ontario-Holton Co is as good Yo agricultural purposes as any county outside the southern peninsula. It outside the southern peningula. It consists of a general agriculture and is easily accessible from Toronto. Hoiton or tinelph. It has been settled many years and the farms which average about 100 a each are held at \$40 to 70 p a. Buyers visit this section for cattle and hogs annually. About the usual number of stock are kept from year to year by the farmers. The people are comparatively well off, most of them having good buildings, basement bains and storehouses. Winter wheat does well. Aside from wheat most of the corn raised is fed to stock. Apples are produced in paying quantities and usually shipped to England. The southern part of the county is extensively interested in fruit growing. Oakville a Lake Ontario shipping an immense lot of small fruits to Toronto and other central points.—Many western Ontario farmers were short of feed this spring and turned their cattle out to pick up what they could before the snow was fairly off the ground. The result is that many young cattle who were forced to live on a diet of wind and water are in a very poor condition and will not make much growth this summer. consists of a general agriculture and live on a diet of wind and water are in a very poor condition and will not make much growth this summer.—
The outlook for wheat in southwestern Ontario is good last year it was almost a total failure.—The little town of Wiarton, Bruce Co, with 2000 people, is the first place in the province to have a beet sugar factory. Machinery is being purchased and six tons of sugar heet seed have been secured. It is claimed Ontario could as well produce all the sugar consumed in the province, as sugar can be produced in Michigan.—The cut of logs the past season in Ontario is estimated at \$00,000,000 ft. one-half being in the Georgian bay district. trict.

Nova Scotia-Kings Co is well known for the superior quality of its potatoes and their prolific growth, running from 260 to 350 and even 400 bu p a. All kinds of roots grow well in its rich and fertile soil. The country is dotted over with thriving towns and villages, and the scenery is varied and picturcsque. Taking into account its many advantages, the price of farms in this beautiful county is not high, as good farms may be purchased at \$3000 to 15, 000. — W. C. Archibald of Wolfville is setting 10,000 pear trees at Port Williams of Bartlett, Louise Bonne, Duchess, Lawrence, Howell, Anjou and Clairgeau varieties. for the superior quality of its potatoes

Cape Breton-Farming in Inverness Co and in most of the rural and agricultural parts of the island is in a most primitive condition. Farmers follow the most primitive methods and true to the intuitions of our Celtie race, they are slow to change ways and methods venerable with age for any new and modern system let it be ever so approved. It is true that hitherto we were practically side-tracked. Until a few years ago when the Intercolonial railway was built through the island, there was no ready and free and regular was no ready and free and regular mmunication with the outside world mmunication with the outside world. Any atte trading that was done was carried or by the precarious method of small consting smacks and schoeners and all sorts of sailing craft. But even now, with railway communication, we are so far from any market outside the island, that there is practically no inducement to farmers to try to raise foodstuffs for sale. But with the sudden development of the iron industry in the two Sydneys, at least North Sydney expects steel works to start there this summer, the market has come to A New Industry—The continued denudation of forests over Ont has caused a considerable advance in the price of wood during recent years. Coal imported from the states retails at around \$6 p ton. The item of fuel is one of the heaviest expenses to the housekeeper in central Ont, an ordinary residence being estimated to consume not less than \$100 worth of fuel is one consumption and save

enough for seed. I have been preaching, in season and out of season, ways and methods of improving farming, but and methods of improving farming, but without much success; still there are slow but encouraging indications that by and by our farmers will or may bege to farm. A young man who was away in the United States for a number of years, came home a year ago, took hold of his father's farm and is doing all he can to enlighten his neighbors and the community. They first laughed at him as a crank; but atteady they begin to see there is "reason in his madness."—[Subscriber.

Evading Monopoly Transportation It seems the fixed policy of governments not to dictate any freight rates to their subsidized lines, and fruit growers have only one alternative—to employ other lines for fruit transport. After a careful consideration of this subject I am fully of the opinion that as this trade develops the only profitable means of transport will be by small fruit steamers from Bay of Fundy ports, much the same as oranges are exported from the Mediterranean and banamas from the West Indies—and with londing ports at Annapolis, Kingsport, Horton and Hantsport and a pier now being provided at mouth of Cornwalls river, fruit growers can find foreign markets without the aid of any subsidized monopolist lines, at about half the freight now paid. Within the next 5 or 10 years we must provide for an export of over 1,000,000 bbis annually and the steamship company which growers have only one alternative-to an export of over 1,000,000 bbis annually and the steamship company which secures this business from Bay of Fundy ports, at half the present cost, will have one of the most profitable export trades from this continent. It is now certain that steamers can be loaded once a week in Minas Basin from wagons direct from the orchards, and it only requires the united effort of fruit growers to secure this at once. fruit growers to secure this at once.— [Pres J. W. Bigelow, N S Fruit Growers' Ass'n.

Maine-Snow off the ground April 9 in Kennebec Co. Fruit trees are looking fine, being full of blossom buds. 9 in Kennevec Co. 1 ing fine, being full of blossom buds, Grass winter killed severely. Most of the farmers are sowing grass seed where the grass was killed out; it winter killed badly. Potatoes sell at 50c. eggs 12c, butter 22c, apples \$3 to 3.50, hay 10 to 12. It has been a poor coason for maple sugr rand syrup makenson for maple sugr rand syrup sugr rand syrup sy 50c. eggs 12c, butter 22c, appies \$3 to 3.50, hay 10 to 12. It has been a poor season for maple sugar and syrup making: syrup sells at \$1.20 per gal.—Elbridge Beedy of Franklin Co has 12 sheep that dropped 21 lumbs. I. L. Jones shipped 25 lambs on which he realized \$7 to 12 each. Walter Keene of Palmyra has a cow that recently gave 7.2 gals milk in one day and at the Newport condensed milk factory it tested 5 per cent butter fat, which is equivalent to 3 lbs butter.—The town of Brunswick owns 1000 a of what was once pine land, but long given over to fire and huckleberries. The tract is to be replanted with white pine, \$100 having been appropriated to buy seed. As the land is now unproductive, the new plan of artificial forestry is e specied to be ornamental as well as profitable.

Washington-Over 3000 a wheat have been seeded on the reservation in Whitman Co at Tekoa. The contractor gets man Co at Tekoa. The contractor gets two-thirds and the Indians one-third the crop. The grain acreage is unusually large. Creamery prospects are brightening perceptibly. White brome grass is considered one of the best pasturage grasses for high, dry land. Fat hogs are in demand at \$4.75 1 w and the supply hardly fills the demand.—This promises to be one of the most profitable years to sheep men in the history of the sheep industry in this section. The price of both sheep and wool hold up well and the wool clip promises to be unusually heavy. The mild winter has permitted sheep to come through in better condition than usual. They are stronger and fatter and have a better coat of wool than usual. This is the lambing season. everything points to a big crop of he thy lambs,

Heirs-There is no telling how long it will take to extinguish the rights of absent heirs of real estate. The mere absence of the children will not give the brothers and sisters rights. The rights remain in the children and their heirs.

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A THREE-YEAR-OLD INGORY NANNA

is a good profit in its ruising to say nothing of the great value of the antimals for breeding purposes. The Angora goat is a native of the province of Angora in Turkey in Asia about 300 piles inland from Constantinople, but it is about 20 yrs since any were imported into this country from there. The breeding of these animals has been for many years one of the hading industries in Cape Colony South Africa and it is fair to say that the interest and intelligence devoted to them in that part of the world almost parallels that given by our breeders to the leading breeds of cattle and sheep in this country.

Among those who have handled them for a series of years they are no longer regarded in the light of an experiment. Their excellent and valuable qualities are rapidly becoming better known in a more general way. One of these characteristics is their adaptability to lands which have been hitherto regarded with so much disfavor on these, where there is an abundance of underbusch, the goats are in their element. The Angora is essentially a browser, and while it will thrive on grassy land, it feels much more at home among hills and scrub brush, and on such a character of range will attain its highest development. It is of an active temperament, which prompts it to travel over a good deal of ground in search of its food, and for this reason, while it does not in any way interfere with other stock it does not like to be herded in the same flock.

Where range of suitable character exists, a pasture of any given capacity can carry a flock of Angora gents without detriment to other stock, because the goat will cat brush, and weeds Among those who have handled them

same condition.

The ment of the Angera goat is excellent and is not distinguishable from mutten of the same age and condition. It is very largely sold as such in many of the larger markets, besides being regarded as a stable in the districts where it is raised. The methods employed in handling Augura goats are in the main very much the same as these followed with sheep. They can be herded in about the same sized flocks in mountainous ranges as sheep can in more talnous ranges as sheep can in more

the dam, as in the case with sheep, the kids are kept back in the pen when the flock goes out in the morning. It is not until they are about 2 mos old that it is safe to allow them to run freely with their mothers, as the latter cover too much ground for the strength of the kids. During the earlier weeks of the life of the youngsters they are often allowed to go out of the fold after the flock has gone off for the day. They will then content themselves with nibbling the young grass and leaves within easy access of the pen, never leaving it to go any distance until their dams return at night. Where handled by experienced breeders 100 per cent of kids are often raised to the number of breeding does, the few losses being made up by twins, of which about 7 to 10 per cent are generally dropped in a flock of well-bred Angoras. The percentage of twins in well-bred Angoras is not as high as in a flock of common or native goats.—[W. G. Hughes, Tex.

Helps for Farm and Home.

CHAT WITH THE EDITOR.

CHAT WITH THE EDITOR.

F. J. K. Write to the secretary of the located of railroad commissioners at the capitol of each state for list of railroads in the state—E. D. Some good hooks on house plans are. Reed's House Plans for Partybody price \$1. Homes for Home Pattlers, I. How to Build a Home, I: Fulliser's New Cottage Homes and Details, 4. Barn Plans and Outbuildings, 1: all are sold by the Orange Judd Co of 2 Lafayette place, New York—G. C. asks whether a ram's capacity to pump water may be doubled in point of distance, as well as in quantity, by increasing the supply of water per minute to the ram at the spring Providing the delivery pipe is sufficiently large to prevent friction in the pipe into with a given delivery o' water, it distance pumped makes almost no difference in the quantities delivered. If the delivery pipe is too small to carry the water delivery by the ram, frictional resistance is developed, which is equivalent to an increased head, and an additional supply of power water must be furnished to the ram to overcome this resistance whatever it may be.

LIVE STOCK AND DAIRY—Pa. Sub-

LIVE STOCK AND DAIRY—Pa Subscriber: Milk tubes are sold by all dairy supply houses. Write to the Dairymen's Supply Co. 1937 Market street. Philadelphia. Pa—D. McI: Poultry commission houses include F. W. Brockman, 809 N 3d St. St Louis; A. W. Bear, 119 E 4th St. Karsas City; Papendick Produce Co. Kansas City; Papendick Produce Co. Kansas City; V. Y. D.: Write to the U. S. dep't of ag.J., division of animal industry, for reports on tuberculosis. They are free. LIVE STOCK AND DAIRY-Pa

scrub brush, and on such a character of range will attain its highest development. It is of an active temperament, which prompts it to travel over a good deal of ground in search of its food, and for this reason, while at does not like does not like to be herded in the same flock. Where range of suitable character exists, a pasture of any given capacity can carry a flock of Angora geats without detriment to other stock, because the goat will cat brush and weeds which other stock to fuse, and will also cerich the more open land with their droppings, derived from a class of food which would otherwise he wasted. Where confined to a bruiked and they will effectually destroy underbrush by keeping the leaves eate off. They are sometimes kept with this object in view, though most breeders who realize their value giv, them access to ample brush, which they regard just as a sheep man doe a his grass and for the same ranson would not wish tegraze it so closely as to destroy it. Angora goats will be largely on the running remeasure where feeding and sheltering are necessary such processary such p

POISON OAK-E. R. wants a remedy POISON OAK-E. R. wants a remedy for the cure of poison oak. Bathe the afflicted parts three times a day with a little of the following: Acctate of lead 4, oz. giverin 2 oz and soft water 1 at. Also take five drops of Fowler's solution of arsenic at a doze in a little water three times a day after meals. Continue this treatment for several months if necessary

talnous ranges as sheep can in more let I country.

The most marked difference in the system of management is through the kidding season when instead of allowing the newly born offspring to follow. None. A has done nothing crimbial.

Our Veterinary Adviser.

(Questions for this department are auswered in turn, but on account of the large number of queries received it is often some weeks before replies can be printed. In case an jumediate answer by mail is desired, \$i should be inclosed.]

SWELLING ON CHEST-H. H. has a SWELLING ON CHIEST-H. H. has a pony which is fat and has a swelling on its chest Give it regular exercise; also 2 dr nitrate of potassium at a doso three times a day in small mash. Handrub the swelling well several times a day.

THRUSH-E. W. L.'s horse has thoush in the feet. Wish out the cracks of the frog with warn water and dry well then put dry calome; into all the affected parts and repeat this every second day until the feet are healthy. Keep the feet dry while under treatment.

STIFFNESS-B. F. W.'s cow is stiff STIFFNESS-B. F. W.'s cow is stiff and when she gets up makes a grunting sound. Her appetite is not good and she does not chew her cud. Give at one dose 1½ lbs epsom salts and 1 oz ginger dissolved in water. After the physic operates, give 1 oz each tineture of chlorida of fron, ginger and gentian at a dose in the oatment gruel cost of cud is not a disease, but a result of any disease

CAKED UDDER-C. F. S.'s cow's bag CARED UDDER—C. F. S.'s cow's bag caked, also what is uest to give horses and cattle when they are bitten by a rattlesnake Mix 2 dr fodine with 2 oz vaseline and rub a little of this on the udder once every second day. The best remedy for rattlesnake bite is good whiskey and bathe the part with a lotion made by mixing 1 oz acetate of lead with 1 qt water.

MEGRIMS—Mrs G. U. P.'s mare has a nervous twitching of the head and neck and sometimes all over the body nearly every time she is hitched up and driven a short distance. This is a derangement of the nervous system and is usually incurable. Give 1 oz bromide of potassium twice a day in bran for one week, then skip a week and give again if necessary.

BUNCH ON TEAT—H. B. W.'s cow has a bunch on one of her teats. Take a knife and scrape off the skin or crust, then apply a little terchloride of antimony to it. In three days remove the scab and apply a little more of the antimony until the lump is removed. Mix 2 dr oxide of zinc w'th 6 dr lard. Apply a little of this once a day to heal it. If the cow is giving milk, use a milk tube to draw off the milk while under treatment.

FOUNDER-M L's mare ate too much corn, got sick, then became very stiff, got a little better and then got worso got a little better and then got worso again. This is a case of founder and it is likely that she will be always more or less stiff. Give ½ oz nitrate of potassium at a dose twice a day in a bran mash. Mix 2 dr cantharides with 1 oz lard, rub this around the coro-ets, let it remain on 24 hours, then wash off and turn out to pasture for the summer.

SCOURS—A. S. M.'s cows have the scours. Change the food and give each 1 dr of sulphuric acid and 1½ dr sulphate of tron in a small mash or a quart of starch gruel at a dose three times a day until cured.

FUNERAL EXPENSES-J. L. C., N Y A debt for funeral expenses is a preferred claim against an estate. If a man knowingly makes a false statement to a commercial agency and afterward buys goods from one relying on such statement, he may thereby lay himself open to criminal prosecution.

EXEMPTIONS FOR DEBT-D. A. E., Me. A single weman has the same exemptions as to attachment for debt as has anybody else. The list of exemptions in Me is too long to publish here, but includes wearing apparel, necessary household furniture, \$150 worth of books, fuel, food supplies, tools of trade, one pair of working rattle, or one pair horses or muler, two swine, one cow, 10 sheep, \$50 worth of domestic fowls and \$500 worth of land, if the required certificate is filed in the registry of deeds, making it a homestend. EXEMPTIONS FOR DEBT-D. A. E

PREFERRED DEBT—X. Y., N Y: If an administrator squanders an estate and doesn't pay the preferred debts and a relative pays for the cemetery lot, does that relative thereby make himself liable for the preferred debts? Of course not. A married woman of full age and sound mind may devise her separate real-or personal property by will without the husband's consent in the following states: Vt. Ct. Ohlo. Ind. Wis. Minn. Neb. Va. Cal. Nev. N D. S D. Mont. Wyo. Utah, Ala, Miss, Fla, Lu, Ariz and D C.

Talks with Our Lawyer.

Questions for Our Legal Adviser are answered in turn, but on account of the large number of questes received it is often some weeks before replies can be printed. In case an immediate answer by mail is desired, it should be inclosed. Subscriber to existen edition should address the Springded Office, western edition readers, Marquette limiting, Chicago, Gardner & Burns, 916-918 Marquette builting, Chicago, have charge of western edition fitting legal toutifies; for the eastern edition Charles II like with, Esq. of Springfield, Mass Caution; Subscribers in asking questions regarding thin distribution of exister should state aif in facts and circumstances, if real estate is involved, where it is slivated, etc. A question like the "How much of her husbands property does a withold" cannot be fully answered in this eduning as the law varies according to the facts, and thewhole law is too long to be printed in full, and hence our answer may be misleading.

reet are healthy. Keep the feet dry while under treatment.

INDIGESTION—S R. E. has a cow that would walk around in a ring, always to the same side; she is better now but has a poor appetite. The trouble was indigestion, which affected the head. Give I oz each tincture ginger, gentian and chloride of fron at a dose in I qt oatmeal gruel three times a day.

STIFFNESS—R E W.

BARN HAY TRACK—Mich Reader: A track for horse fork in a barn would probably be considered a portion of the tarn, and as such is a fixture. If G has sold the farm to A, he would have no right to remove the track.

WATER RIGHTS-A. S., N Y. A land owner cannot close a water course running over his land, to the damage of other riparian owners. If he does, such persons may break down the obstruction or that such him for damages.



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The Garden. HOW TO GROW BIG SQUASHES.

My land is made in good condition, being neavily manured every year. It is of a gravelly formation with about 16 in of clay loam on top. A 300-lb squash can be grown on any part of it squash can be grown on any part of it by the following method of cultivation. For each hill I intend to plant, about April 1, take two good wheelbarrow lords of hen manure, and mix with four barrows of good soil taken from some other part of the lot; this is mixed a second time April 15. May 1, I add four barrows of well-rotted marure and mix thoroughly, then about May 18 make the hills and plant. Dig out a space 7 ft in diameter and 14 in deep, fill in my compost mixing, and with it some of the best earth whice was thrown out, and when finished, the hill will be about 10 ft in diameter at 6 in higher in the center than the simple of the plant in the seed. Hills want to be about 20 ft apart; work the ground well until the plants begin to run. When about 3 ft long I rulch the ground well until the plants begin to run. When about 3 ft long I rulch the ground all over for 20 ft in diameter around each hill with horse manure 3 in deep and stake the vines down with sticks to keep the wind from rolling them about so that they may round as long as possible, by pruning all fruit bloom off until about the last week in July; this will give time enough to mature a 300-lb squash by Oct 1, for there must be a big vine to produce a big squash

I practice rtillzing a few of the first by the following method of cultivation.

for there must be a big vine to produce a big squash

I practice - rtilizing a few of the first blooms that come, when I think the vine is strong enough to grow a good specimen, by cutting 6.7 some of the fresh faise bloom, trim the corolla or flower leaf oit, and rub the stamen in around the fresh fruit bloom, this is necessary when fruit bloom, it as on a morning that is unfavorable for bees to do their work and it assures the setting of the specimens just where you wan, them; it also gives extra vigor to the growth of fruit to be well polichized. When the first perfect specimens have set well, exy 4 or 5 inches in diameter, cut all other fruit and blossoms off and nip the ends off vines and all bloom that shows twice a week go that the vine is not exhausted with the great quantity of false bloom that would naturally come. Now while the great growth of the squash is going oi. I use iquid manue twice a week along three or four of the principal vines of each hill, often six pails to the hill if it is in a dry time. Great care must be taken to give plenty of water; for instance, in 1893 when I grew the great specimen that was the largest on exhibition at the World's fair it was a dry time with us in Ont, and having the advantage of the town water service, I sprayed each hill twice a week through Aug and early Sept, drenching the ground cach time. IWilliam Warnock, Huron Co, Ont. a big squash

CULTIVATE EARLY AND OFTEN

After a garden crop is planted and fairly started in growth the most assidfairly started in growth the most assiduous cultivation is necessary. No weed or blade of grass can be permitted to share its store of nourishment. The lawful plant, like a prudent sovereign, will tolerate no rival near its throne. For the cultivation of cabbage, potations, cauliflower, peas, beets, lettuce, squash, cucumbers, egg plant, peppers,

How to Grow Good Fruit.

How to Grow Good Fruit.

The superintendent of the Lenox sprayer company of Pittsfield, Mass, has delivered an address before the Lenox horticultural society at Lenox, Mass. The address bore chiefly upon spraying and general culture of orchard and field crops, how to do it, do it cheaply and good, and how to obtain the most profit from your labor in the casiest manner. The address is quite lengthy, about an hour's taik. Owing to other matters ahead of it we cannot publish it in this issue. Had this address been placed on the market in lack form it no doubt would have sold as good price. The full address, profusely illustrated, in pamphlet form, was intended to be sent free to fruit growers and owners of estates, free for the asking, but to prevent imposition by the curious and disinterested, the lack will be sent to fruit growers or wares of estates inclosing 50 cents to the Lenox sprayer company, 21 West street, Pittsfield, Mass.—IAdv.

etc. I use a fine-toothed, deep running cultivator, penetrating to a depth of f or 8 in unit the plants have spread out a healthy growth of roots from 4 to 6 inches in length; then we stop deep cultivation, but endeavor to have the surface well-worked to a depth of from 1½ to 3 in, according to the character of the plant, using the small-toothed cultivator or hoe; thereby keeping the surface well-powdered, opening small crevices for the admission of the surface well-powdered, opening small crevices for the admission of the surface well-powdered, opening small crevices for the admission of the surface well-powdered, opening small crevices for the admission of the surface was and enabling the soil to absorb dews and rains. We continue this process until foliage interferes.

The results bar..ng possible drawbacks of disastrous drouths or damaging storms are usually early crops and the best prices of the market. With us, lettuce, celery, turnips, beets, cabbage, cantalcupes and potatoes are off n grown very extensively as a second crop. The potatoes being planted between July 20 and Aug 10 generally result in an enormous yield within 10 weeks if cultivated under favorable conditions, often yielding 250 to 300 bu p a, and while the green vines are frequently killed by frost and potatoes are not fully developed, they do not sprout until late in the winter or early spring and are therefore excellent seed, even superior to transfer of the worker of the potator, as they grow more vigorously and mature earlier. Our soil is a brown limestone, lier.—[E. F. Wetstein to Mat'l Farmers' Congress.

A HANDY GARDEN PLCW.

Any one with a knack for making things can make this plow, excepting perhaps the rim of the wheel and the shovel. The rim, b, should not exceed



HOMEMADE PLOW.

18 inches in diameter and should have eight small holes to nail spokes through. The hub, a, should be made from tough wood, 2 in thick and 4 inches in diameter. The wheel on my plow is from an old metal paby carriage. The two-horizontal pleces, c, are 1x2 in by 2 ft. Shank for shovel, d, is 15 in long. The handles, c, are cut 1x5 in by 3 ft. The upright brace and round for handles to svit hight and width it is desired the handles to b. The braces on shank are made from heavy wire looped for bolt on shank and fastened with large screws to horizontal pieces. The handles are bolted on the top of horizontal bars with 4 in bolts. I made the shovel from an old ditching spade 3½ in wide and 6 in long cut across the blade and it was test. Vermillon Co. Ind. 18 inches in diameter and should have

HOW I RAISE EGG PLANT.

When setting plants, start in o c corner of hox with trowel and atter the first plant is removed divide them evenly clear to the bottom of box, so as to get all the dirt have found it best to thoroughly soak the soil and let them stand a few hours; then the carth will stick to the roots better and can set with less trouble. I dig a hole with a spade so as to have plenty of room to fill in with loose moist soil. Set the plants considerably deeper than they are in boxes, tramp the earth firm but gently with one foot, then draw loose soil around plant with trowel; do not hill but leave ground level. I set plants 3 ft apart in the row, rows 4 ft apart.

My plants bear enormous crops. I think I have raised as high as 25 to When setting plants, start in o e cor-

row, rows 4 ft apart.

My plants bear enormous crops. I think I have raised as high as 25 to the plant. The land must be rich to attain these results. When the seasons have been very dry, I have found that sprinkling a large tablespoonful of salt around the roots is of value, raking the ground with steel rake afterward. Do not let the soil get on the leaves, or heart of plants. Cultivate the ground once a week if it

is not too wet. I think it better to cut fruit than pull, so as to leave piece of stem on plant. They are not fit to or stem on plant. They are not fit to eat when ripe; should be used when half or two-thirds grown. I find the New York Improved as good as any I have tried. I think if people know how to prepare and cook egg plant they would be more generally used.—[William Box.

IMPORTANCE OF PROMITNESS.

Some vegetables are very slender and easily stunted in the earlier periods of their growth. If the soil is nadly intheir growth. If the soil is adily infested with weeds, it will be necessary to resort to almost daily cultivation during this most important period in order that the plant may have every chance to grow. The increased product will repay for all extra trouble as the control of the market of the control of fested with weeds, it will be necessary

Reliability in Coraying Apparatus and perfectness in the working parts are what keeps the Empire King and Garwhat keeps the Empire King and Gar-field Inapsack sprayers to the front. They are first-class in every respect and can be used for spraying fruits, vegetables, flowers, or whitewash on buildings or kerosene on animals. Write to the Field Force Pump Co of Lock-port, N Y, for illustrated catalog.

Dig up the ground thoroughly before putting in the shrubs and allow the roots plenty of room.

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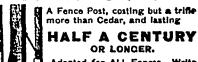
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Success Without a Mortgage.

FROM POVERTY TO AFFLUENCE

HOW A HUSTLING CAROLINIAN SUCCERBED. [Sixth Prize Essay.]



money

patches I saved ed money carefully and when \$1 or 2 had accumulated gave it to father to keep for me. Kept on increasing my means by raising a hog or caif and working spare days for neighbors until 20 yrs old.

At 20, father agreed to set me free without a shorse, or work for m another year and he would give me one. I chose the form r offer, was then 20 yrs old and he \$135 in cash, one cow and calf and a patch of wheat sowed. In the fall, look all my money and hought a woung mare and began farming on shase s with father. On Sept 1, 52, married a young lady of 18 yrs and had to horrow the money to buy my license of \$3, but did not have to give a mortgage for it. We went to live with my father. I need not say we moved, for we had nothing to move except ourselves.

In the spring of '30 we began truck-

In the spring of '50 we began trucking, raising sweet and Irish potatoes, cabbage, beans, onions, tomatoes, etc. marketing the m seven miles from the farm. We found ready sale at good prices for produce. At the end of the year we found we had made considerable money for our year's work. We invested our money in more cattle, some farming tools, house property and hought and planted 90 fruit trees on father's land. The next spring we began work in good heart. Increased our crop, added some new vegetables, also chickens and sold butter. Raised a large crop and prices were high netting a good profit for our work. With our money this year we hought a half interest with father in a wheat drill, mowing macaine and hay rake, some young cattle and some more house projectly. In the spring of '90 we began truck-

Preferty.

We began work in the spring with increased course. Leaving off som crops that did not jet so well and increasing in those that did. Found more made in those that did. Found more made in calcium, and potates than anything clse. We raised a good cop and prices were still high, making another good years work. In the spring of '83 father gave us 14 a of land on the side of his farm. We planted a part of our cop on this land but kept on cropping with him. We raised a fairly good crop but prices were not as good owing to the beginning of the leads. In Aug. '92, we began hallding a hence of our own, having the in cash to begin with. We built a house 34 ft long 16 ft high and 14 ft wide with cable front and perch 6224 ft, containing four rooms, with hall-way above and below. There is also an extension on the lock side 24 ft long 12 ft wide with perch on side 24 ft long 12 ft wide with perch on side 7 ft wide. This contains kitchen and dining room with pantry inclosed in end of porch leaguey own work. We moved in in Nov. Projects.
We began work in the spring with

The spring of '94 found us in our new home with no garden or any other buildings, he ing built in the words We went to work and plante' a good crop, a part on our own land, out kent in every spare mement we could get cleaning up the making impovements around our home and building a good well house lath it. We raised a fairly good crop, but prices were still low and produce was hard to sell for each at any price, making us very little pro-The spring of 'St found us in our new and treduce was hard to sell for each as any price, making us very little profit for our year's work. In the fall I sowed 16 a wheat, bought and set 10 fall trees amples, reaches and pears, and inclosed a garden 36 ft square with poutry wire. We found by examining our account book that our pro-

fits were short. But we were not discouraged.

fits were short. But we were not discouraged.

OAFFLUENCE
INIAN SUCCERBIND.
ESSAY.2

Horn on a farm—in 69—in Guilford Co.

N C, I attended public school during water until 19, getting what education I could Wher '9 or 12 yrs old I began earning m on e y b y catching rabbits and birds, and having small truck patchs I sayed m on cy carefully a nd could more trees, we raised a very good crop but prices continued very low.

In Guilford Co.

N C, I attended more sweet and Irish point of the wall and put in a set of folsts and built a house 1½ stories high above ground. Used the cellar for keeping and second story for a work shop and second story for storage room. Increased the wheat crop and bought and set 50 more trees. We raised a very good crop but prices continued very low.

Luring 96 and 97, our crops were about the some as in '95, but found more teady's le and at some better prices. We so ced good crops of wheat each year and bought some more younge.

more ready s le and at some better prices. We so ed good crops of wheat each year and bought some more young cattle to cat straw and hay, sold some beeves and a few milch cows. Set more fruit trees and increased our poultry to 30 hens and built a good hen house. Drilled about 120 a of wheat each year for neighbors at 30c p a. Worked part of the time during winter at carpenter's work and harness making. We managed to make expenses and a very small profit.

The spring of '98 opened with brighter prespects, We sold our wheat for \$1 p bu and the prospect fair for gool prices for vegetables. We hired a boy 4 mos, planted a good crop of sweet and Irish potators, sowed onion seed for sets and planted a general variety of vegetables, set 40 more fruit trees and several strawberries and sowed more wheat in the fall than ever before. Irish potatoes were a very small crop and barely paid expenses. Sweet pointoes made a heavy crop and found ready sale at good prices; other vegetables made fairly good crops and found ready sales. We found at the end of the year we had made more clear money than any other 2 yrs since '91.

Lust spring we began work with in-

had made more clear money than any other 2 yrs since '91.

Lust spring we began work with increased courage. Hired a hoy for 8 mos, bought 62 a of land adjoining us raying two-thirds down and giving my note for remainder. Planted good crops of potatoes and vegetables; also 2 a tobacco, built a tobacco burn and sowed 21 a wheat. Lust season was unfavorable owing to excessive wet weather in spring and drouth in summer and fall. We raised only a moderate trop but priors have been exceptionally of fall. We raised only a moderate op but prices have been exceptionally th. We made considerable clear mon-and expect to meet the note when

due. Have kept an account book ever since we were married, jotting down every income and expenditure. Inventory is taken Jan 1 of each year, the same as other business men do. I hink every farmer should do this, as it enables him to better understand his business and see his mistakes and avoid them. Have never used whisky or to-bacco; slways contribute to eard building churches in the neighborhood and once; always contribute to earn outling churches in the neighborhood and take a great interest in public schools. We attribute what little success we have had to the following rules we have tried to follow.

Industry and strict economy.

Hencety and fairness in all our deal-

ings

Always sell more than we buy and go in delit for things we can do without.

Always try first to raise a year's sup-

ply and then all we can to sell.

Make all the manure we can and increase the fertility of our farm and im-

prove it is an many ways as we can.
Always cultivate our cross well and
market produce in the lest condition possible.

Read good farm papers and profit by thers, inlitakes and successes

Never lost around town or take stock In politica.
Last, but not least, we are contented

Last, but not least, we are contented with our station in life, never worry or fret over things of which we have no centrel. We just try to get all the happiness out of this life the v is in it.

To following the rules a vove we have always been able to get credit whenever we wanted it without giving a mortgage.—[J. M. Davis, Guilford Co. N. C.

When Raising Double Petunias from seed, save all the weak looking plants, as they are almost sure to he double, while the strongost ones sare often single.

Plants and Flowers.

VINES IN TREE FORM.

Wistaria and trumpet creeper are beautiful when grown in tree form. When the young vines are planted set a stout stake which will be about 8 ft above the ground and set two or three to the stake every few inches, removing any branches which may start out, and let the vines grow to the top of the stake. Then pinch out the ends to cause the vines to branch, but do not let any start out below the top of the stake.

After the new branches get to be a few inches long, pinch out the ends once more and continue until a bushy top is formed, after which the vines can be allowed to grow at will. By this time the vines will be strong enough to support themselves without the stake and it can be removed. Often the vines are allowed to twist around each other like a rope when climbing the stake, which makes them much stronger. When well trained, the vines make an umbrella-shaped canopy which is an ornament to any lawn. Vines so trained flower more freely than when allowed to climb as they please, as a rule, such vines do not blossom until they reach the top of the building or other support furnished for them, but grown in this way they have no support after a short is formed, after which the way they have no support after a short time and must blossom for want of something else to do.—[Marian Meade.

CHURCH AND CEMETERY TREES

In southern Erle Co. Pa, a new church was finished, and a landscape gardener was hired to level the ground, seed it and plant shade trees; the church was built on a corner of two streets. The sides next the streets were planted with So Car poplars of one year's growth from the slip. These were 4 to 10 in long cut from side branches of trees; and stuck in long rows in some conven-ient place and kept free from weeds. Every one made a tall sapling the first scason.

These one-year-old trees were set out for shade in this churchyard 3 yrs ago; when they were set the tops were cut off to give the trees a branching habit. when they were set the fors were cut off to give the trees a branching habit. To-day, they are magnificent, well-formed shade trees. They never sprout around the roots nor make such sky scrapers as the Lombardy. They will make more growth in 3 vrs than the Lombardy will in 10. Another advantage for churchvards, they do not lose their foliage after the first frests all at once, like the maple, but hold their dark green glossy leaves until late in the season, getting rid of them a few at a time, and they do not pile up and become a nuisance. The Eric cennetry has a border on two sides of these populars and the annual trimning keeps them all the same hight. It is a sight that is very pleasing to the eve. One long street has these trees on both sides the whole length and it is called Peplar street. For a quick-growing, all purpose shade tree it has reached great popularity in the last 10 yrs.—[Mrs John College] repularity in the last 10 yrs.—[Mrs John Galllard,

Amaryllis Bulbs which have bloomed this winter should now be made to rest withhelding water so no new leaves form. By this means a crop of flowers will be produced in autumn, each bulb being able to produce flowers twice a year if so treated.

Rose Slugs should be watched closely as town as leaves begin to unfold. Spray with a solution of one tablewater, or an ordinary solution of whale

Raising Tuberoses and Giadioli Market-The season last proved very unsatisfactory for hulbs of all kinds on account of the terrible of all kinds on account of the terrible. In out and grasshopper plague, but our tuberoses and gladioli stood their ground, especially the former, every bulb sending up one to three blooming siems. I never save any tuberose bulbs, but purchase new bulbs every spring, net them of mu serymen by the hundred. They are never coddled, nor started in the house, but the huller are kept in flour sacks in a warm room until June 1. Last spring when we were ready to plant, we had taken off a crop of 20 dox radishes; our tuberoses and 3 bu of gladioli were taken out and

planted in iong rows marked out with planted in long rows marked out with the corn marker, so they could be cultivated by horse. The tubernses were all stuck in the rows by hand with one-third of the bulb sticking out of the ground. This was all the covering they received then, but later, when the cultivator ran through, some soil was thrown on the rows, but not enough to cover the bulbs. They came into bloom early and the bloome rows. to cover the bulbs. They came into bloom early and the blossoms were all marketed before frost. The gladion were dropped in rows 6 in deep, like potatoes and covered with the wheel hoe. This was the last planting, as we had made two other plantings of gladioli in April and May. So many people fail with tuberoses, for they put them out too early and plant too deep. [Mrs John Galilard.

Hydrangea Paniculata needs considerable pruning to bring the best results; cutting back well toward larger branches, which tends to p. duce enormous panicles of bloom though less of them. The wood cut away can often be rooted in sand.

Mildew can be prevented by the application of flour of sulphur with a bellows. As it is easier to prevent than to cure, it is well to commence early.

Achilleas can be kept beautiful all the season if blossoms are removed as fast as they fade. New shoots come ap from the root constantly to replace those removed and a constant show of blossoms is the result.

A New Edging for the canna bed is the beautiful squirrel tail grass which can be raised from seed. It forms an odd, but attractive border, the long graceful plumes and grassy foliage hiding the unsightly lower stems of the caunas.

Nasturtiums-Instead of training the climbing nasturtiums upward, let them run over the ground naturally. Much stronger stems are produced, finer foliage and more blossoms. The vines also protect the roots from the effects of the sun, forming a sort of mulch, so less unter the received. unter is required.

Azaleas-When through flowering. plunge the pots in the ground in a shady place, give water every day and spray the foliage twice a week. If the roots become dry, the plant is ruined, and if not spra, ed, red spiders spoil the

Verbenas-Set the plants out in a slanting position, pegging down the new shorts, placing soil over the places where they touch the ground. Attention of this sert will cover the ground with iew growth in a very short time.

Aster Beetles-These must be handpicked, as no practical remedy is known for them. Take a pan of water in which some kerosene has been poured and knock the bugs into it. The kerozene kills them instantly.

The Cold Frame in Summer is just the place for rooting alips of hardy roses and other hard wood plants. Put in sharp sand to make a layer 3 or 4 in deep, then take cuttings of suitable size and plant them in the sand. Glass must be shaded in some way, either by canvas or whitewash. The cuttings will root quickly if proper attentiar is paid to watering them, and they can then be transplanted to another frame or be potted off. They will require partial shading for a time, but can aradually be accustomed to full light and sun. The plants need not be removed from the frame until quite late, when they can be beuded out in the open ground and if given proper protection in sharp sand to make a layer 3 or 4 they can be headed out in the open ground and if given proper protection will survive the winter nicely. Many of the roses will blossom the second season, and I have seen them bloom in the frame during the first aummer. Slips taken later than the first of June do not do so well, a smaller proportion of them routing.—[Lena A. Holmes.

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How a Mortgage Was Lifted.

SUCCESS FROM A NUTMEG FARM.

In the spring of 1886 I bought the farm where I still reside, giving a mortgage of \$6,000 and obtaining a loan of about \$1000 from other sources. The farm was deeded as 212 acres, more or less, and a good house, that could be used for two tenements, and other buildings in fair condition. It contained a fair lot of apple orchards, also about is acres woodland, which was used as best I could in helping pay. My family consisted of wife and three daughters.

another daughter was born in 1888.

The farm was adapted to general tarming and dairying with stables very

tarming and dairying with stables very comfortable for winter dairying. I started with about 15 cows, sending casm to the creatnery, gradually inserted to the creatnery, gradually inserted the herd to 25. I grew all the a possible, cutting the dry slover for an animals and sening an the hay. I tore up all the old matural mowings and pastures that could be plawed satisfactorily and by thorough fertilizing doubled the hay crop in a few years, besides doubling the number of cows kept. At first I had to buy cows occasionally, but that took money which ought to reduce mortgage, so I decided to keep a Jersey built from some good herd and raise my helfer calves on skim milk. This increased my cows very easily and I soon fourd? could sell a few cows each year to help materially in lifting the mortgay.

Kept quite a lot of pigs to use up the waste articles, skim milk, etc. and by cooking cull apples found they were valuable in growing pork. I sold at from 100 to 200 lbs dressed and fatted from 20 to 50 pigs per year according to conditions. I always had some potat, es

from 100 to 200 lbs dressed and latted from 20 to 50 pigs per year according to conditions. I always had some potal es to sell and help out, but I never depend-ed on them as a main crop. Also had about 100 hens to help along. The first year I paid interest and expenses and 100 on mortgage; not a ver; bright

prospect.

The second year I started in better shape with more cows and stock. Had shape with more cows and stock. Had a good apple crop which sold at good prices and was able to pay all bills and plotted on mortgage. This successful year gave us the assurance that with good health and no misfortune, we should be able to pay for our home. The next year I built an ice house and made some passes are to be able to pay and a few hun-

heable to pay for our home. The next year I built an ice house and made some necessary repairs, and paid a few hundreds on the mortgage. In 1890, we had a fair apple crop, while the crop was generally a failure, consequently got the benefit of high prices. Good returns generally for all crops helped reduce the mortgage \$1600 again.

In January, 1891, I had the misfortune to lose my left hand which made meentirely dependent on hired labor to run the farm. At the end of 11 years the mortgage was canceled. In 1892 I set out 500 peach trees and increased each year to 1898, while I now have 1500 trees. The crop of 1899, which brought remunerative prices, made the financial returns very satisfactory. The peach orchard was well started but gave no help in paying mortgage. I also have a few hundred Japan plum trees just coming into bearing.

Our home has been supplied with good papers and periodicals, suitable for all members. Had organ and music lessons for daughters to help make home pleasant. Have entertained friends and acquaintances fiberally and contributed to help associations that the family were interested in. Our membership in the grange was a strong factor in our success, also the teachings of our experiment stations, and the helps of the best agricultural repers. I paid cash and used all laborsaving machinery practical. Used home-mixed commercial fertilizer quite extensively. Had nothing to do with fast horses. Directed labor for income saving machinery practical. (Act bome-mixed commercial fertilizer quite extensively. Had nothing to do with fast horses. Directed labor for income instead of abow. Always had oxen to help with the work. Depended on dairy, hay and pork for each sales. Always sold what was in demand for each but over depended on peddling produce, Every week I carry produce, potatoes, term, fruit, anything I have that will sell to stores that I buy of extensively said am satisfied that has been best for me. I have always pumped successful famers for information to help me: and last but not least, hard work of my-mell and family with care in expenditures, has made our attempt at morterer lifting a success.—[Clifton Peck, New London Co, Ct.



A Yankee Farmer's Home.

Orchard and Berry Patch.

THE FAJIT GROWERS' NEEDS.

The fruit grower of to-day must have the ability to adapt himself to new methods, new fruits and new markets. By use of cold storage and rapid tranlly use of cold storage and rapid transit, the finest fruit from every land can be found in any large market, both in and out of season, for while the fruits of one hemisphere are first waking from their winter's sleep, on the other the summer sun has done its work and the ripened fruits are on their way to distant markets. With the world as a market, competition is keen, and only the best fruits in the best condition will pay Furthermore, it generally costs much less per ton to produce large, first lass fruit than the poorest, meanest apecimens that are ever offered. Small fruit exhausts the tree more rapidly than large fruit. It will thus readily be seen that improved varieties which produce uniformly large, fine fruit are the more economical manufacturers of fruit, and a.so that the product is more salable.

The tree which needs a good deal of pruning to keep it in proper form and vigorous health should be replaced by one that has a better habit of growth, for every ton of wood taken unnecessarily from an orchard represents at least as much weight of fruit. Many sit, the finest fruit from every land

for every ton of wood taken unnecessarily from an orchard represents at least as much weight of fruit. Many varieties have two or three superior qualities, but woefully lack in many others. The fruit grower of to-day is simply the manufacturer and should have the latest and best improvements. Of course there never can be one variety which will be best for all purposes, but it is perfectly possible to produce varieties which for their own special use can be relied upon to produce full crops of the best fruit without fail. All this can be done by careful selection and breeding.—[Luther Burbank, Cal.

SPRAYING FOR SAN JOSE SCALE.

There are two methods of fighting San Jose scale which has a footthe San Jose scale which has a foothed in all the important fruit growing sections of America. One is by the use of fumigation with hydrocyanic acid gas and the other by spraying with kerosene and water, trude petroleum or whale oil soap. Hydrocyanic acid gas is one of the deadliest gases known and is safe to use only in hands of an expert and under known conditions. For the treatment of nursery stock it is the best method and sure in its netion. This method is expensive to use in orely of practice, as it requires an dutifit of sends to put over each tree or hugh. But for the fruit grower the simplest method is to use a spray. A 20 per cent mixture of kerosene and water has been found by the Cornell (NY) exper six to kill the scale and is safe to use on trees that are either dormant or in leaf if applied on a sunshing day when the sun will quickly evaporate the kerosene. Pumps are now made that will emulsity pure kerosene and water and water at the time of aphold in all the important fruit growing

plication. The experiments at Cornell plication. The experiments at Cornell extend over several years and seem to be conclusive. The experiments with crude petroleum are not so extensive and have been carried on largely by J. B. Smith of N J, who says he has killed all scale with 't. It should be applied while the trees are in a dormant state and can be put on pure. There are several different strengths of crude petroleum and further tests are needed to determine which is best. Whale oil soap is disagreeable and difficult to handle, but may be applied if used white het When cold it becomes thick and sticky. and sticky.

Horticulture at the Pan-American Exposition at Buffalo will embody all the Jatest achievements in the science. The grounds will be richly embellished with trees and shrubs, follage and flowering plants. A large building will be devoted to fruits and exotic plants, while a floral display will include more than 500 beds of popular flowers. The water features of the exposition include a grand canal more than a mile in length which completely encircles the main group of buildings. Exposition at Buffalo will embody all

Setting the Farm Strawberry Bed-The common practice of plowing up, or digging up at random, the young plants from a strawberry bed is not conducive from a strawberry bed is not conducive to improvement of the varieties. The most successful growerz are learning that it pays to select from the best individuals each generation. In fact it is advisable to keep a patch on purpose for breeding. Of course a grower cannot take time to select individual plants for his customers, but he can select his breeding plants each year from the best plants of the preceding year and thus gradually improve his breeding plants and through them the general crop.—[Prof A. S. Hitchcock, Kan Exper Sta.

Diversity and rotation of crops im-prove the soil, make more and better home suppli s.—[Frank Everett, Ark.

Farm Problems.

FARMERS' FAILURES.

'Tis sad, but none the less a fact, that half life's failures come from want of tact. Ingersoll wrote a book about the mistakes of Moses. There are very few farmers but what could write a book about their mistakes and it would few farmers but what could vrite a book about their mistakes and it would make interesting reading. A singular characteristic of the human race is that every one must learn by their own experience. It is the only true teacher and the best one if not bought too dearily. Now is the time for the prudent farmer, before he begins the season's work, to study and contemplate what is best to do, see where he made mistakes and failures last and past years and endeavor to avoid them this season. Many make failures because they never stop to think until it is too late. Careless methods and poor judgment are the cause of more than one failure. The unavoidable will happen and misfortune overtake some; such is life; that is the exception not the rule, but such must take renewed courage and fully appreciate existing advantages with a determination to overcome sil obstacles until they meet with success in farming, as in any other occupation, requires good judgment and discernment; not how much you do, but how well you do it.—[W. J. Casson, S Dak.

Our Grand Country is large and a person need not confine himself to a locality where he cannot do fairly well. locality where he cannot do fairly well. I have been in more than half the states of the Union and think I can safely say that many persons are not where they should be. In Kan, there is plenty of room for a large number of good farm hands, mechanics and others. The crop of wheat now coming on is immense and will require more men to harvest it than there are now in the county. If some of the dissatisfied num who are readers of F & H would go to where the work is, they would better their condition.—[J. W. Lovern.

The Prune Problem on the Pacific coast will probably be strengthened by coast will probably be strengthened by the pledging of 90 per cent of the Cal product to the Cal cured fruit z-rociation and of fully 90 per cent or the northern Pacific crop to the Pacific northwest cured fruit association. The net prices received by growers will be several deliars more per ton than if competition were to continue among growers, as in the past, in the disposal of the product.

A Correction is requested by Mrs F. H. Phelps of Kan, who wrote the fourth prize essay on Success without a mortgage, in F & H April 15. She says they raised 400 bu wheat last year instead of

Holders of Beans are very firm in their views, and offerings are small.

What is the best and cherpest power for general farm purposes, a.ks a subscriber. This is a matter of growing importance in many acctions to larmers who are in a position to make use of it. We should like to hear from our readers as to the kinds of power used, the original cost of it and the running cost per week or month. What is the best and cherpest nower



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The Last Day at the South School.

Written for Farm and Home by Reinette



Z'EN EN in school yet?"Mrs Galasked, as she stooped to pick up the borrowed tin she just had dropped.

Mrs Brown carefully let the last drop of hot fat fall from the

doughnut she held polsed on a fork before replying. "No, Mary, I hain't. I don't generally get in till the last day, fur, as I tell Joe, I hear about what's going on in the school right here at home, mor'n 'sif I went in and set

through one or two classes."
"Well, I dunne, Sarah, there's a good "Well, I dunne, Sarah, there's a good deal said this term about the teacher, and I feel it's my duty to find out what's going on. Fur's I've heard, the children all think she's perfection, and that to my way of thinking is reason enough for desirn' a change. To my mind, children never like a reel good teacher. I dunne as you remember Jane Bartlett, that taught when I went to school. The young ones didn't like her because they were seart to death of her, but she jest knew how to teach them 'rithmetic and spellin'. Land! they would sing the multiplication table to Yankee Doodle, and many's the time I've seen her stand over Lime Wood with a ruler till be could spell the words he missed."

Mrs Brown lifted her eyes from the pan of savery, beautifully browned

Mrs Brown lifted her eyes from the pan of savery, beautifully browned doughnuts and fixed them upon the face of her guest, "My brother Joe used to go to her," she said, "and I remember how he'd study his spilin' book to home nights till he could spill the words back'ards and for ards, but as soon as he'd get up to spe'l he couldn't remember one. Every time he missed one she'd give him a crack with the ruler, but after all, I dunno as she ever taught him to spell."

"From what I hear said," put in Mrs Gale darkly, "this last teacher is about the worst fur notions of any they've had since they began talking about these normal ideas. From what that has ever taught here, and I heard her

tell, she's the only reel graduate that has ever taught here, and I heard her telling Charlie Spooner that she come cut here to study existin' conditions and get a broader view of her work. I shud have had more respect fur her if she'd said she was teachin' fur the money she got." money she got."
"So Charlotte was n-tellin' me, but

"So Charlotte was a-tellin me, but hev you heard about there not being any last day this term?"

"That's just what I was goin' to mention. I think somethin' ort to be done shout it."

Mrs Gale's thin lips set themselves in unpleasant lines and her high riched wider rose, with a relice. themselves in unpleasant lines and her high-pliched voice rose with excitement. "I heard her n-tellin' Mrs Gliman right before little linery that the idea of an exhibition at the end of the term had been given up years ago, and that she coubln't spend time for special preparation. I say for a girl a-pretendin' to teach school, that don't take interest enough in her work to get up a last day, it is pretty small talk. Sakes ally 't how we ust to count on the last day for weeks be'erchand."

Mrs Brown occupied herself by undinning her sleeves and slowly unroll-

I'm so glad! Mis' Gates spoke up and asked her if that was better than 16 to I (you know Edwin is a democrat), and she laughed and said it was the result of the greatest football game of the season, and she knew someone who played. From pictures I've seen, there ain t no great difference between football and prize fightin'."

Mrs Gale sighed profoundly, "As I

but and prize lightin."

Mrs Gale sighed profoundly. "As I said, I dunno how much the children are learnin". I say it stands to reason that if children are all over a teacher, she can't hev much government, and a teacher has got to hev government. Fred Lyman told his Aunt Hannah and Fred Lyman told his Aunt Hannah and she told me, that when that Eliott boy said ramrods was what women jammed their hats on with, she jest laughed out loud. Now wa'nt it her duty to restrain herself? What kind of a way is that to govern children? I'm glad cnough that my children got through going to school years ago, and I don't take a mite of interest in the school, but I should like the privilege of goin in the last day, same's I allus hev done."

Mrs Gale tose from her chair and Airs Gale 'ose from her chair and wrapped her apron over her head. "I must be gold' now, I've left bread in the oven." Suddenly, "Do look at this, Sarah," broke out the departing guest, as she gazed out from the side window as she gazed out from the side window along the stretch of road, where at the top of a sharp, 'th stood the white schoolhouse that for years had been kindergarten and university to the youth of distilct number three. Perched upon a high stone wall, a bag of books awang over her shoulders, contentedly eating an apple and gazing toward the western sky where the marvelous tinting was fast turning to somber hues, was the figure of a tall girl. As the two women watched, she sprang to the ground and ran easily down the slope. "Look at that and tell me if she has had much bringing up."

Sarah shook her head, but made no

Sarah shook her head, but made no reply, and Mrs Gale with sudden thought of her neglected bread hastened

It was never known just how it happened that Dashtown had united with a neighboring town in the hiring of a superintendent, but the action had been deeply regretted, and between the long-suffering individual who filled the position and the committee, chosen for their firm adherence to the views of their fathers, was constant friction. In vain had he striven to have the pupils of the outer districts carried to the enter of the town and there establish with the united forces a graded school with well-trained and salaried teachers. The proposition was bitterly opposed, old John Gliman was reported to have said that "his children got holt of enough deviltry as it was, without gitting any more from the town young ones." It was never known just how it hap

It was through this superintendent's instrumentality, however, that Cather-ine Mason had come to teach in district ine Mason had come to tench in district number three. She was easer to learn of new conditions and if possible rem-edy and perfect them. It was a firmly fixed blea, she found, that if a child had not got his lesson at 4 o'clock, he should be punished, and that severely, preferably by the use of the rod. "They will not treat the child are an industpreferanty by the use of the fod. "They will not treat the child as an individual," she had despairingly ejaculated to the superint indent. "They won't tolerate any evidences of the young animal. Why wen't they study their own children and help me with data?"

The genual superintendent gave his have genial supermented gave he hearty laugh. 'D-n't expect too much, they are of sterling material, after all, in spite of unreasoning and unrooted projudies, and have the children's wel-fare at heart. Rest assured that your

worker, the matter was being deeply agitated throughout the district where the doings of the "schoolma'am" proved the doings of the "schoolma'am" proved a never-failing source of interest. Mrs Jones voiced the opinion of her neighbors when she stated plainly that she "shud go in school jest as she allus had done, and set there, even if there wa'n't nothin' to see."

The last week drew to its close and Catherine worked constantly for the completion of cherished plans. She had determined to ke p up regular recitations to the last moment. Especially was she anxiour to demonstrate to a class in fractions why they "inverted the divisor and proceeded as in multiplication." How she wished they had never seen that odious rule. Friday came quickly, and at quarter past 1 a rap at the door caused Catherine to admit Mrs Jones. Before 2 o'clock the astendshed young teacher had welcomed some 20 "parents and friends." Nothing daunted, although compelled to send to the neighbors for chairs, she strictly adhered to her program, but she felt the disparaging glances and realized the unfavorable feeling. The last week drew to its close and

Never had she shown an example

realized the unfavorable feeling.

Never had she shown an example of better teaching than 1998, in her brief reviews, her inductive presentation and her crisp drills, and she felt secure in the fact that she held the children's int rest and attention. Her enthuslasm and magnetism could hardly fail to affect the stern array of critics, and many a severe skeptic felt in a dim way that the pupils were gaining more than they realized.

At 20 minutes of 4 the children were asked to lay aside their books. Quickly and quictly it was done, and 30 pairs of eyes were fixed upon their teacher. Itising from her chair Catherine faced her waiting audience and smiled.

"My dear friends," she said, "you have come here to witness a last day exhibition for which I have made no preparation. I am glad, sincerely glad, that you have come, but I am unwilling that you should judge my work by a few recitations, a song or two, and a sample lesson in reading. I do appreciate your interest. She had be glad, gladder than you can possibly realize, if you would only try to learn just what I am doing or trying to do, but one day at the close of the term in any time and come often. When you wonder how a certain principle is being taught, come and I will show you. Let me tell you of the real results of in any time and come often. When you wonder how a certain principle is being taught, come and I will show you. Let me tell you of the real results of the apparently strange methods I use; I realize the lack of time in your busy lives for this, but what you can for your children's sake spare, use it so it will every moment pay. I want you to know what I am doing, but more what the children are accomplishing. Teaching is only to be valued in the degree it shows the children how to teach themselves, all through their lives they must be their own teachers. Your interest is the best possible incentive for them to do their best.

"Won't you believe that we teachers have the children's welfare most deeply at heart? We try to study them in the few hours they are with us, but think how much wider are your opportunities, you who have watched each building characteristic, you whose lives are centered in them. Won't you tell us about them? Come to us frankly and tell us wherein we full to all them as you wish. Do you realize, can any of us realize how much depends upon these childish minds? Cannot you feel a lack in your lives? See to it that it doesn't come into theirs. Cannot you remember the works of some one teacher in your school days who made your

interest enough in her work to get up has day, it is pretty small talk. Sakes all sty how we ust to count on the last day for weeks be be be be be be before the more again covered. "Probably sho in like all the rest of them, teach a few works and then get married. They are defined to the form the last day for the more married. They are defined to the form the last where again covered. "Probably sho is like all the rest of them, teach a few works be before they had smalled her of the preparation of them. teach a few works before they had smalled her of the preparation of the climber of them, teach a few works before they had smalled her of the preparation of the climber of them works before they had smalled her of the preparation of the climber of them of them teach a few works before they had smalled her of the preparation of the climber of them of them works before they had smalled her of the preparation of the collection of the climber of them works before they had smalled her of the preparation of the collection of the

ideals, the broadening and widening of dawning conceptions, and the fruition of the highest type of human life?"

Flushed with excitement from the unwonted and unrealized eloquence. Catherine dismissed the pupils, and bent over them a moment later, touched with the sincere sorrow of their good bys. A constraint existed among her auditors. A few made some sliftly worded remark, but the screter near the state of the sta auditors. A few made some stimy, worded remark, but the greater number passed quickly out, leaving Catherine alone with the children—the chil

erine alone with the children—the children who had found no meaning in her words, but were quick to understand the tender light in her eyes.

"Well, Charlotte, what did you thint on't?" Mrs Jones asked, hastening down the road after the tail, lank figure of Miss Atkins. Miss Charlotte snifted contemptuously. "What she sak sounded well appure and Increase. down the road after the tall, lank figure of Miss Atkins. Miss Charlotte snifted contemptuously. "What she sail sounded well enough, and I presume there wus those that took considerable stock in it, but I say, Mary, that 'talm' preachin' we want in a teacher, it's practice. There won't no good come from changin' from the solid ideas of our forefathers. There ain't no way it teach readin' but to learn them their letters, and when the Bible says 'Span the rod and spoil the child,' I don't presume to see it in any other light of account of a girl like her."

Miss Charlotte expressed in a measure the views of the majority, for the instinctive homage they for the moment gave to the teacher's words was partly obliterated by their firmly fixed prejudices—theirs by birth and environment. Yet a start had been made along the line desired, which after experience of both parents and teacher strength ened.

A PRONUNCIATION MATCH

Pronunciation matches are in vogue conducted after the manner of the off time spelling matches. At a recosides, each contesiant being allowed by one trial. The hostess had previous prepared a list of words, writing to no ed authorit s for "the latest" in don'

prepared a list of words, writing to not ed authorit is for "the latest" in don't ful words.

Those who care not to spend so my time may take the Century dictional for authority, or Webster's. An how in the nearest public library will paper a long list. Trifling prizes were awarded the winners, and a consolable prize to the lad who missed every work. After the match closed funny games were played, as a relaxation after the more sedate feature. One was a contest of skill. The company were marched single file through a long room, at the entrance of which say a bushel basket of peanuts. She or he who could reize the largest handful be passing and carry them, without dropping one, to the basket at the opposite door was awarded those remaining in the first basket after all had passed. The winner was a woman, who secured 48 but there was only a quart left for The winner was a woman, who secure 48, but there was only a quart left for her prize. Those in the second basks were "passed around" amid much merriment.—[The Maine.

OUR PREMIUM OFFERS.

Everything advertised in the pre-mium list of Farm and Home is kept on hand throughout the year and car be obtained at any time. Those of our readers who have been unable to get up a club as yet can do so now, as still receive some of the splondid pre-miums offered. A careful examination of our premium list, which we send free on request, will show an excellent and varied assortment of good things and some of the greatest and most as-tonishing offers ever made by a re-sponsible Journal.

State Flowers-The state flower of Alabama, Nebraska and Oregon is the goldenrod, Iowa and New York the rose North Dakota the wild rose, Colorade the columbine, Dolantare the peach blossom, and Idaho the springs. Maine the pine tree state, chose the pine cone and tassel, Minnerota has the moccasis flower. Montana the bitter root or bitter spot of the pine tree state. nower, Montana the bitter root or bit-ter sweet (I am not certain which). Oklahoma the mistletoe, Utah the sego lily and Vermont the red clover Wisconsin and Rhode Island have a tree, the beautiful and useful maple Other states may have flowers, and at this time of writing the Manachu metts legislature is trying to choose a floral emblem for that state,—[Alle L. Nay.

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Hires of the Valley

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When spring is generous with song and

And apple blossoms falling snow the

ground: When brooks delight to babble, flash

When brooks delight to babble, flash and bound, And rapid ripples with the grasses run; Amid thick leaves the illy cups are spun In looms invisible, devoid of sound; The airy shuttles ply their magic round Until the marvels are divinely done.

As twilight's golden purples fringe the

And fraught with fantasy we dimly hear hear
A merry chiming as of elfin bells,
From pealing petals rhythmically
pressed.
A delicate fragrance fills the atmos-

And of the dew's celestial mission tells.



MEMORIAL DAY. [Written for Farm and Home.]

[Written for Farm and Home.]
Flowers, flowers, our dearest, our heat,
Let us strew where our brave ones are
laid at rest!
Let us make each grave all fair and
sweet,
Fit for the passing of angel feet!
For, ah, it may be they are with us to-day
Whose names we honor, this beautiful
May!

EMMA C. DOWD.

APPLE BLOSSOMS.

Have you seen the apple blossoms in the

Have you seen the apple spring.—
In the spring?
Have you seen the apple blossoms in the spring?
Pink buds pouting to the light,
Crumpled petals baby white,
Just to touch them, a delight
In the spring.

MEMORIAL DAY.

Do you know what it means, you boys and girls
Who hall from the north and the south?
Do you know what it means,
This twining of greens
Round the silent cannon's mouth;
This strewing with flowers the grassgrown grave;
This decking with garlands the statues
brave;

brave:

This planting of flags,
All in tatters and rags;
This marching and singing;
These bells all a-ringing;
These faces grave, and these faces gay;
This talk of the blue and this talk of the

gray In the north and the south, Memorial day, Not simply a show-time, boys and girls, is this day of failing flowers,
Not a pageant or play.
Nor a holiday
Of flags and floral bowers;
It is something more than the day that starts

War memories a-throb in veteran hearts:

For across the years.
To the hopes and the fears,
To the days of hattle.
Of roar and rattle.
To the past that now seems so far away.
Do the sons of the blue and the sons of

the gray Gaze—hand clasping hand—Memorial day.

For the wreck and the wrong of it, boys and girls,
For the terror and loss as well,
Ust hearts must hold
A regret untold
As we think of those who fell.
But their blood, on whichever side they fought.
Remade the hation, and progress wrought.

We forget the wee;
For we live and know
That the fighting and sighing,
the falling and dying,
the falling and dying,
the falling and dying,
the hut steps toward the future—the
martyr's way!
Adam which the sons of the blue and the
gray
Lock, with love and with pride, Memorial
day.

[Selected.

Bobs-My favorite is history. I am very fond of akating and sleigh-riding. We have a very long hill in front of our schoolhouse, and the bobs go over it like the wind. I have a Datay air tife. How many have one?—[Dewey

Young America.

More Than Satisfied-I received the premium rifle and am well pleased with it. I can hardly understand how you can give such valuable premiums for so few subscriptions. I find when canvassing that those who have use for the paper renew gladly, because they find F & H good value for little money. I find looking through the Ludington list that all accounts I have sent you are O K and whenever I have asked you to discontinue or make a correction on anyone's account, you have done so promptly. I also received the rebate of 50c which you send extra for 10 new names. For all kind favors please accept my thanks.—[Merton J. Stovin, Ludington, Mich. can give such valuable premiums for Ludington, Mich.

Not So Easy-I would like to know if the writer of "deceitful girls" ever the writer of "deceitful girls" ever stopped to consider whether there are any deceitful boys. I think they are just as numerous as the girls. It is nothing in our part of the country for a young man to be going with three or four girls at the same time, and then pretend to each one that they are the only one in the wide world for him. But I would like to inform the boys that they can't always deceive the girls as easily as they think they do.—[True Bluc.

Half-Past 16-Twentieth Kansas Jayhawker, I think you are all right. My favorite friend is a soldier, too. He is at Manila now, and of course I do is at Manlia now, and of course I do not hear from him very often, but hope to see him in two years at least. The boys around here tell me it is just because he is a soldier and wears the uniform that I like him, but they are mistaken, for I do not think the uniform makes the person, do you? Some one in the Young Americans' department asks. "Why is it we do not send our ages?" Well, I am just half-past 16.—[Ohio Pippin.

Banjo—Sunbeam, I play the banjo. Last winter I bought a new one, and yours cost just 20 cents more than mine. Yours cost \$11 and mine cost \$10.80. What is the name of yours? Mine is called the Mystic. What are some of the pieces that you play?—[Heartsease (Seventeen), New York.

Our Youngest-I am a little girl five years old. I live in sunny Kansas. I have never been to school, but I can read in the third reader and papers. read in the third reader and papers. My mamma is my teacher. I was in a buggy this fall and the horses ran away and threw my grandma and me out on the hard pavement street. Grandma's wrist was broken, but I did not get a scratch. I have no brothers or sisters, so I play with my pug dog and little red wagon. I enjoy reading the girls' and boys' letters in F & H very much. My mamma has taken F & H four years. We got Wood's Natural History for a premium this year. I think it a good book.—[Mary M. McClelland.

Hero and Heroine?-Who in the history of the United States is your nistory of the United States is your hero or heroine, and why? Make the answers short, crisp and to the point; I believe they will prove interesting. If we don't agree with any one say so, tell why, and make rather a debate of it. If any one has a better subject to offer, do so,—[Reba (Seventeen), Volkiers. Louisians.

Nice Brother-We don't hear from Nice Brother—We don't hear from Coddle's Sister any more. I think she must have a nice brother. I am sure I have, He is very handsome and tall: I love him very much and he is liked by everybody, cid and young. I heard a man say the other day he did not believe he had an enemy, and I don't think he has.—[Blonde.

Great-Great-Grandfather-I live on a farm where my great-great-grand-father used to live just after the Ecvolution. He cleared it and set out secolution. He cleared it and set out some trees, one an apple tree which bore fruit last year, although 100 years old. There is part of a large stump of a tree which the British cut for a mast, which broke when it fell, thus spoiling the mast. My great-grantfather built a sawmill on the brook, where he worked, keeping his heres in the mill. Just as soon as he



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I wan Hammer and Hammer a

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CHICAGO.

would shut the mill, down would he jump upon his horse and ride home for dear life for fear of wolves, which infested the country. Once they followed him home, and when he got home his wife opened the door and he drove right into the house to keep them off. In the dooryard now stands an old oak tree over 120 years old that measures 10 feet around it.—[Sliver (Fifteen), New Hampshire. New Hampshire.

Stones-I t. 'nk chronic whispering is an incurable disease, as is chronic note-writing. Our teacher is not very an incurable disease, as is chronic note-writing. Our teacher is not very strong on corporal punishment. He thinks that talking will do more good. I think he will "get left" on that point. Dear little Water Lily is running a great risk, and I think that if she would be a little school girl, she would profit by it. I do not intend to offend you, Water Lily, but I just express my opinion. I have read a great many books and I like Washington Irving's works and Miss Alcott's better than any I have read. I write short stories, but I never let anyone read them. I am in the sophomore grade of high school and have four studies. What we lack in quant'. y we make up in quality. How many Y A's like to study stonea? I do and am gathering a collection. I have several different kinds. We live near a creek and I have a good opportunity to get them.—[Pansy, Illinois.

Shooting an Oil Well-One day I went to see an oil well shot. The well was about 1210 feet deep. The oil is found in a hard rock about 1150 feet found in a hard rock about 1150 feet below the surface called Trenton rock. The oil is used for burning and for making coal oil and is good for greasling machinery. The oil is black. The nitro-glycerin is very dangerous. Sometimes it explodes when the man is taking it to shoot a well. If it explodes it will kill the man and the horses; the wagon would be torn into splinters. When the glycerin explodes in the well it forces the oil out of the well and it goes into the air about 125 feet. The derrick is about 74 feet high. Sometimes they tear the high derrick down and put three poles up for a derrick. Sometimes they have to pull the sucker rods, then they put a pulley at the ground and one at the top of the derrick, and a rope through the pulleys, and hitch a team to the end of the rope and then pull one rod up, and then unfasten it and pull another until they get tall pulled out. The wells are about 500 feet apart.—[Homer Fent (Nine), Ohio. below the surface called Trenton rock. Ohlo.

OUR PUZZLE CONTEST.

SECOND INSTALLMENT FOR MAY.

Geographical Charade-My first 2. Geographical Charade—My first often serves me for company; my second is an annoyance to printers; my third is an article, used everywh re in the United States; my fourth is a river in Europe; my whole is an important mining city in South America.

A Anagram (one word)-

4. Biblical—Where in the word level first found in the Bible? Give book, chapter and verse.

5. Drop Letter Puzzle—

-K-I-T-A-I-N.

6. Square Word-I, To wander: 2. gumbo; 3, to reckon (ohr s, a companion, 4, & compan- Please



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For a 1-qt can of fruit when done, 2 ats fresh berries will be required. The berries should be looked over and washed; a colander is useful for washing them in. Then put them into a granite

WILD DUCK.

Roast Duck with Potatoes: Clean and soak over night in weak brine one mallard or two teal, and at 9 the following morning place in a kettle with

mailard or two teal, and at 9 the following morning place in a kettle with
enough water to cover them. Allow
them to bell briskly for two hours and
remove to a baking pan. Add a lump
of butter the size of an egg and all the
liquor in the kettle. Pare pointoes,
wash and put in the pan with the
ducks. Bake for one hour.
Hoast Duck with Dressing: Holl for
two hours in water to cover nicely,
and add water from time to time as is
required. Remove to the bake pan and
make a dressing as follows: Bread
crumbs 4 cups, withenough of the liquor
from the kettle to soften, 2 eggs, butter the size of a walnut, sait, sage and
pepper to taste. Bake the duck for
three-quarters of an hour, then add the
dressing and bake for 15 minutes.
Fried Tuck with Gravy: Cut in
pleces, sait, roll in flour and fry in hot
lard. When done, make a gravy with
the grease left in the spider, and pour
it over the fried duck. Serve very hot,
[Catherine Blane.

[Catherine Blanc

A Delicious Cream Sponge Cake-Three-fourths cup coffee A sugar, 12 cups rich sweet cream, 2 cggs, 12 cups

THIS WILL INTEREST MANY.

F. W. Parkhurst, the Boston publisher, says that if any one afflicted with rheumatism in any form, or neuralgia, will send their address to him at Rox 1501. Boston, 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.

sifted flour, I heaping teaspoon baking powder, I teaspoon extract lemon. Sift the flour, measure, then and to it the baking powder, sift again. Separate the eggs, beat the yolks up lightly, whip the whites until very stiff, add the sugar to the whites, beat again, then add the yolks, cream and flavor, lastly the flour. Fold this lightly through. Never beat a sponge cake after the flour is added to the batter. Bake in a moderate oven, Icing. Two eggs (whites), in tablespoons powdered sugar, I lemon (juice). Heat the whites until stiff, add to this the sugar (a spoonful at a time), heat until white and smooth, and spread over the top and sides of cake.—[Sara Brandis. sifted flour, I heaping teaspoon baking

berries should be loaded over and washed; a colander is useful for washing them in. Then put them into a granitch hash and put this into a steamer over briskly bolling water, cover closely and steam 10 minutes, or until the fruit is just heated through. In the menating that in a granule or porcelain steepan, add 1 cup bolling water and set over the fire to melt and come to a boll. When the berries have steamed as directed, lift them out carefully into a can and immediately pour over them the boding has strip which you have fire to melt and come to a boll. When the berries have steamed as directed, lift them out carefully into a can and immediately pour over them the boding has strip which you have firmining for the put of the sure they are tightly scaled. My judgment is that it is best to put only enough berries in the steamer at one time for a can of fruit. Of course you are keep more than one steamer going if you desire.

It is very important in canning to have all cams perfect, to have the rubbers intact and the tops perfect. If the edge of the cover is bent up even a little it will offer an opening for the air. When I empty my cans during the ware, I does not wish it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be large, put the doy of the rubber in the can on which it be a large to the cover is bent up even a life can be dot to do the pickles should be put in a boiler with warm water and add con-entrated by bring the water to boiling point, and then all the water is should be put in a boiler with warm water and add con-entrated by bring the water and believe that part of the can be the cans be not or cold, they will not break. Cans that have been used for pickles should be put in a boiler with warm wate

then blossoms and let stand 48 hours, Then strain and add 2 lbs white sugar, 2 lemons, sliced, and a hard yeast cake. Allow the wine to stand three weeks, Strain again and bottle,—[L. M. A.

To Polish Horns-To prepare horns, boll them in very strong lye to loosen the 19th and remove unpleasant tolor. When they are perfectly dry fasten the sman end in the vise of a fasten the small end in the vise of a work bench, and with a drawshave remove the rough surface from the large end. Ho not cut too deep, or gash the born, or shave it too thin toward the tip. Saw off the large end smoothly, then setape with a piece of glass. Here again cane must be taken that the edge of the glass will not scratch. Scrape until a perfectly smooth surface is secured, getting the right angle in making the strokes, otherwise the glass will make scratches, and every scratch requires labor to remove. Here many fail, they do not sufficiently scrape the fall, they do not sufficiently scrape the horn. Polish with time sandpaper. There are easier and quicker methods. but I have never son any horns that locked as nice as these I have finished after this formula. I should have men-tioned that after the first process the horns should be varnished with the best of white varid h. - [Sarah E. Wil-O. A. B. to polish horns for orna-

O. A. It, to polish home for ornament, scrape the outside rough part off with a good sharp rasp, then scrape smooth with broken glass, then use fine emery paper on them until they are smooth season, then take warm sweet oll and whiting to polish up with, rub the horn all over with the oil, then take the whiting on the hand and polish till it satisfies you. There is nothing that will give the soft polish that the hand will.—[Mrs M. I. Hourigan.

Aunt Tabby Don't Araminty write pretty?
Uncle Hiram: Waal, she sartinly don't write plain.

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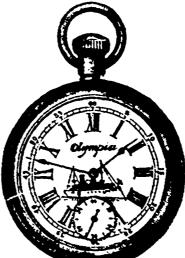
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ist-We offer it on such liberal terms that you cannot aften to be without one. (See offer below: 24.—They are not only for the boys but for the men as well. To see one is to want one.

34.—Everylsely needs a reliable timeplece, as although you can pay more for a watch, you say not get a better one for alloccasions.

4th-You don't want to carry your \$50 watch when you are fishing, builting or working, because if you less or break it the cost is consideral in 5th-In the past, cheap watches have been alarge and bulky that the majority of peache of not work to carry one, but this defect has been remedied and overybody wants one.

OUR GUARANTEE. We hereby agree that if, without abuse, this watch fails to keep good time, we will upon return to us within one year, repair or replace. It with a new one Where can you find a watch with more good qualities or a stronger guarantee?

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A B C OF KNITTING-III.

[Concluded.]

There are really only two stitches in knitting, the plain and the puri or seam.
All the pretty edges and other patterns you see are made by putting these to-gether in different ways, with perhaps a little variation. Some of these varia-tions might trouble you a little it you were working alone, so we will "pick out" this pattern together and learn, too,

tions might trouble you a little if you were working alone, so we will "pick out" this pattern together and learn, too, what those "short" words mean that you see in the printed directions.

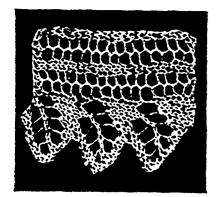
Use cotton yarn or very coarse thread at first, just for practice, then later, if you want to make a long piece, No 60 or 70 thread would look very fine and lacy. No 17 or 18 needles would be about right. For making edges or snything narrow a short needle is better, made by cutting off a long needle and filing it to a blunt point like the other end. Cast on fourteen stitches loosely and knit across plain. "K two ik means knit, then put the thread around the right needle twice. This is called the other end to twice "for short." Now you are ready for p two tog, which means purl two together. You learned how to purl (or seam) in the last lesson. This is done just the same way except that you put the needle through two stitches at once." He sure to put the thread back under the needle, then repeat the directions between the two stars. K one, the otwice, narrow (or n), which is simply kaitting two stitches together, the otwice, narrow (or n), which is simply kaitting two stitches together, the otwice, na again, k one. This finishes the first row.

2d row—K three, but before knitting the third stitch notice that it is a loose thread instead of a regular stitch, but be careful to slip off only one thread over twice in the last row. It is to be knitted just the same as a regular stitch, but be careful to slip off only one thread, leaving another loose thread just like it on the left needle. P one with this thread just the same as if it were not loose. The thread between the needles will seem very long, but that will be all right, for it is going to be part of one of those pretty twists in the finished pattern. K two, p one, k one. "The otwice, p two tog, k two, "repeat between stars.

2d row—K two, the otwice, p two tog, it peat between stars.

1th row—K three, p one, k two, p one, k five. "The otwice, n, k one, This row is like th

t five.
6th row—K three, p one, k two, p one, c five. *Th o twice, p two tog..k two, ' repeat between stars.
7th row—* K two, th o twice, p two log. * repeat between stars. K seven, th o twice, n, th o twice, n, k one.
8th row—K three, p one, k two, p one, k five



* Th o twice, p two tog, k

two, * repeat between stars.

9th row-* K two, theo twice, p two
10K. * repeat between stars. K four-

10th row—K twenty-four, leave three and turn.

10th row—K twenty-four, leave three and turn.

11th row—P eleven, k seven, c, n, c. in, c, k two.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—L twenty-four, leave three and turn.

12th row—P eleven, k seven, c, n, c. in, c, k two.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—Lith row—K twenty-four, leave three and turn.

12th row—P eleven, k seven, c, n, c. in, c, k two.

12th row—Lith row—K twenty-four, leave three and turn.

12th row—I eleven, k seven, c, n, c. in, c, k two.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—E twenty-four, leave three and turn.

12th row—I eleven, k seven, c, n, c. in, c, k two.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—Lith row—R twenty-four, leave three and turn.

12th row—I eleven, k seven, c, n, c. in, c, k two.

12th row—Sip and bind six stitches, knit the rest plain.

12th row—I eleven, k seven, c, n, c. in, c, k two.

12th row—I eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

12th row—II eleven, k seven, c, n, c. in, c, k two.

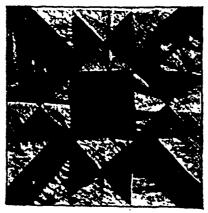


Arbutus Doily.

with just straight or crinkly threads running across. That is done by dropping a stitch off the needle without knitting it and letting it ravel out to the beginning. In knitting a round plece like a stocking, more than two needles are used, but the stitches are the same. It will require much practice to become a fast knitter, but perhaps by and by you will be so expert that you can even read or almost go to sleep while knitting, as you have seen grandma do many times.—[B. A. W.

RUSSIAN TEA QUILT.

This pretty pattern makes a nice quilt pieced entire of red and white, or of red, white and blue, if a patriotic quilt be desired. It is so simple anyone can



pattern after the mustration. Light and dark prints may be used if desired, and the blocks set together with plain strips of dark. Blocks should be about nine inches square when finished.—
[A. R. A.

FLUTED OAKLEAF EDGING.

Cast on twenty-two stitches.

1st row—K sixteen, o, n, o, n, o, k two, 2d row—K nine, k eleven, leave three stitches on the needle, curn and knit

next row.

3d row-K fourteen, o, n, o, n, o, k

4th row—K ton, p cleven, k three.
5th row—K eighteen, o, n, o, n, o, k

two.

6th row—K cleven, p cleven, leave three stitches on the needle, and turn as in second row.

7th row—P cleven, k five, o, n. o, n. o, k two.

8th row—Knit plain.

9th row—K three, p cleven, k six, o, n. o, n, o, k two.

10th row—K twenty-four, leave three and turn.

To Wash Feather Pillows-First have a tub of warm pearline then wet your pillows and rub lightly with your hands. Then use two waters, warm or cold, and hang your pillows up by a string in a shade, where there will be air. When dry, you find your pillows much softer and lighter and your feathers not injured.—[Cavalarpear



Don't Go Blind or Deaf

But write to DR COFFEE, Des Moines, Isfor his eighty-page book teiling all about his
mild medicines that absorb cataracts, white
spots, blindness and
all eye inflammation,
deafness and bead
noise at home.

13000 Patients Gured Last Year. He can do for you what he did for these

wink no did for these people; write to-day. Address. Dr. W. O. COFFEE, 334 Good Block, Des Molnes, lows.

77 Years Old and Cured of Cataracts on Both Eyes.

Too old to permit an operation for being cured until she learned of Dr Coffee's new method of curing cataracts—she travels from Aurora, Neb, to Des Moines, and has her sight restored persectly—and can see to read the finest print.

Des Moines, April 12, '20-'10 whom it may corrern: This is to certify that I am 77 years old; that I live in Nebraska, in the town of Aurora; that I commenced to lose my sight over one year ago from cataracts on both eyes, and, having a son, R. E. Hammond, living at 1510 21th St. Des Moines, Ia, I decided to visit him last fail and consult an oculist in Des Moines. He took me to Dr W. O. Coffee and I went under his treatment for the cure of cataracts by absorption, as I was too old to be operated on. I have carried on this treatment for nearly fire months and yesterday he turned mo off as perfectly cured. I cau see as perfectly as I cree did, can thread a needle without glasses; and I want to say to anyone afflicted with cataracts of the eyes and blindness that Dr Coffee's new absorption method does cure them and that his terms are very moderate.

LUCINDA HAMMOND.

A WONDERFUL CURE OF DEAFNESS.

It required Thirteen Months—But He is Cured by the Home Treatment.

by the Home Treatment.

Auburn. Sac Co, Iowa, Jan 15, 1800—This is to certify that I am fifty-four pears old, that I have lived in Sac Co, thirty years, that I commenced to get deaf and have trouble with my ears twelve years ago, and I have stadually got worse until I could not hear conversation, or preaching, or a watch tick. No treatment seemed to help me until I wrete to Ir Coffee, at Des Moines, and becan his home treatment. The first three months I did not seem to improve any at all, but it being my only hope I stuck to it, and I am thankful to say that my hearing is now almost perfect, my catarth is cured, my theumatiam has all left me, and I seem to be in perfect health. I want to say to everybody that is deaf, if they will stick to Ir Coffee's treatment he will cure them. Your respectfully,



CYBENO BEAUTY. Shirt Waist Pins.

Winter Comments with 8 sets 3 Pins in a set, different colors, to maten as each of cloth; soil to your friends for 15 cents a second of cloth; soil to your friends for 15 cents a second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth; soil to your friends for the second of cloth of t with 8 sets, 3 rines; soli to your friends for shades of cloth; soli to your choice of Three Beaut SOLID GOLD-LAID RINES set with large Opal, Twin Garnet or Simult Send name. No money wanted unless GI.OBE GEM CO., Provide

The Thousand-Shot Air Rifle,

Shoots 1000 Shots Without Reloading.

Given for Only 6 New Subscribers or 3 New Subscribers and 75 Cents.

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Given as a premium for only 6 Now subscribers or 3 Now subscribers and 75 cents. Price only \$1.50, including a year's subscription to Farm and Home. Former price, \$3.00. Sent by express, receiver to pay charges, which will be light. Give name of express office if different from postofice address.

Address all orders to FADM AND HOME Springfield, Mass., or

Address all orders to FARM AND HOME Springfield, Mass., or Chicago, Ill.

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EARNING MONEY AT HOME.

FROM THE GARDEN.

How to provide for the future of her two little fatherless ones and not leave home, was the problem that Mis

Brown had to deal with.

The few acres left after the debts were paid were mostly in berries and were paid were mostly in berries and fruit trees, and she could not easily market them, as the city was eight miles distant. Her husband had never made much headway in laying up money for the inevitable rainy day, excepting to have his life insured, but one busy week he neglected going to town to pay his dues, and a runaway team made it too late forever. Friends advised her to live with relatives and sell the little house, but she was attached to it and preferred being independent.

In the spring before the strawberries In the spring before the strawberries were ripe she went to the city to solicit orders for canned strawberries, jams and jellies. The members of the lodge responded liberally and furnished the cans, paying so much per can for plain canned berries, and furnishing the sugar for the preserves and jellies. She hired a stout girl to help her, and dozens of boxes of carefully labeled berries left the farm that summer. Blackberries were made carefully labeled berries left the farm that gummer. Blackberries were made into jams and jellies. Peaches were preserved, spiced and some simply cooked and canned. Apples were made into jellies and butters, also plum and pear butter found a ready market. Occasionally orders for vegetables came with the fruit, and her increasing trade made it necessary to hire a man each week to deliver orders. Her cows and poultry occasionally added a few dollars to the bank account outside of their living. Her customers are more than satisfied and the account book showed \$175 to her credit for her summer's work, clear of expenses.

penses.

Orders for the next year proved her venture was a success. She is happy at having kept the welf from the door by her own efforts, and not having to depend on friends and relatives for maintenance. In the near future more small fruit will be set out, and the preserving business will be carried out on a larger sente which proves the out on a larger scale, which proves the demand for clean, wholesome, unadulterated canned goods, as the labels are all dated and signed by the maker. Markon McConker [Marlon McConkey.

PUT FALSE PRIDE ASIDE.

If one really wants to or must carn money at home, there is no doubt in my mind but there are ways, plenty of them, if one is well and has tact and energy to just take right hold of the work and do it. Have as a motto, "No work is beneath my dignity if it is respeciable, honest and will not hurt my health." False pride must be put aside and one must go into the work believing she will be successful. If you expect to fail, and work in a half-hearted way, whatever you do will not help you much. I know of several women who are able and ought to be at work, but they cannot do what they want to and they will not do what people want them to do. I have no patience with such people. In this vicinity if a woman cannot leave home, taking in washing and ironing pays as well or better than any other work, unless it is going from home to do such work like the hour, also house leaning. Some call this working at home, because one is only gone from home part of the time and is always at home nights. Women here get 15 or 20c an hour and some that cook get we. If you go from home to do the work, if you work past noon you get your dinner, and often something besides is given to you.

I know of a woman who has in 16 years saved \$1600 besides taking care of herself and family. She was a widow with three children, one an infant. That child was graduated from a high speciable, honest and will not hurt my health." False pride must be put aside and one must go into the work believing she will be successful. If you expect to fall, and work in a half-hearted way, whatever you do will not help you much. I know of several women who are able and ought to be at work, but they cannot do what they want to and they will not do what people want them to do. I have no patience with such people. In this veinity if a woman cannot leave home, taking in washing and ironing pays as well or better than any other work, unlers it is going from home to do such work light the hour, also housedeaning. Some call this working at home, be ause one is only gone from home part of the time and is always at home nights. Women here get 15 or 26c an hour and some that cook get 2c. If you go from home to do the work, if you work past nonlyou get your dinner, and often something besides is given to you.

I know of a woman who has in 16 years saved 1860 hersides taking care of herself and family. She was a widow with three children, one an infant. That child was graduated from a high school in June, 1896. She extred her is and would mark and insulted and unless she did you should not have offered to free her. She felt hurt and insulted and thought you were seeking freedom for yourself when you were seeking freedom for yourself when you were seeking freedom for yourself when you were so willings to set her free her. She felt hurt and insulted and thought you were seeking freedom for yourself when you wer

respected. I admire that woman for her good sense. How many men in a hundred who work out by the day and lose more or less time can save \$1600 in 16 years? If Mrs P. J. T. will write, telling her circumstances, I think I can suggest to her many ways of carning money at home, yet success or failure rests mostly with herself. The best work is of en close at hand, so do not look too far off and miss it.—IAIIIe L. Nay. off and miss it .- [Allie L. Nay.

AS WE THINK.

A Cold World-1 am a farmer boy, I am proud to say, although it sometimes



seems that there is no place in the cold world for me, yet I remember—that some of the greatsome of the greatest men on earth were farmer boys, and I am encouraged to press on. I am not going to back down, because I believe everybody has a calling to perform, or they would

has a calling to perform, or they would never have been created.—[Jack Silster.

Ideal's Ideal—Do you not think the Lord created one sex as good as the other? Certainly he did, and if there is any difference, I would like to know how it was brought about. Of course there are exceptions of good and bad in both. So instead of looking across at the opposite sex and complaining of their faults, let us all strive to improve our own, and this can only be accomplished by "looking to home" and mending our own faults and failures. By so doing we may prove to be our ideal's ideal. Well, I do not want Bishop to think I am one of those preachers he talks about, but just a listener.—[Gordon. Ideal's Ideal-Do you not think the

Dismally-Cowboy, I wish you the best of luck in your second adventure, best of luck in your second adventure, but let me warn you not to rush headlong and marry at your first meeting. We had such a case in our neighborhood, and it turned out, oh, so dismally. One was sold as much as the
other, and after two years of jungling,
agreed to disagree, she returning to her
old home, hundreds of miles away,
richer—in experience. Nevertheless, whoy, let us know how you succeed.

Suggestions—Though not a farmer, like to read your paper, containing as it does useful information for the home also.-[G. F. Haab, Jr.

In regard to stepmothers, girls, treat them well, for we may all be step-mothers some day.—[Sisters.

Miss Minnesota, are you going to be a writer of the Dickens order, or only of the village poetess type?—[Centen-

I am glad to see so many standing up for the stepmother. I am one myself, and although we are all the best of friends, it hasn't always been pleasant. (Sadic.

Queer Lover-Cowboy If the girl had wanted her freedom sho would have naked for it, and un-less she did you should



released her because you thought she wished it, not because you wished it; ask her again to marry you, and if she loves you and is convinced that you are speaking the truth, she will let bygones be forgetten, and you both may be happy. The lonely life you live has made you morbid, suspicious and jealous. A manly man will not hesitate to acknowledge his faults. If your sweetheart refuses you again, you may be sure she never loved you and you may be sure that you would not forget her while you thought she loved you. Marriage with love is heaven on earth, without love marriage is a living hell. Respect, admiration and confidence will not do for a happy marriage while you love someone not your wife. Love may come after marriage, but only when one is fancy free. It is unfair to ask any girl to undertake the responsibilities and burdens of a wife and mother while you love another woman. mother while you love another woman. [New York City.

Address Wanted-Cowboy's address is wanted by a number of readers. Will he kindly send the same to the Editor?

Poor Old Judge Sewall's corpse has been buried up these many years by stones cast at him by people who have no sin. It is simply waste of strength to hurl any more slurs at his memory. to hurl any more slurs at his memory. I erhaps he was way behind his time(?). Lat when I consider how he judged to the best of his knowledge, how he decided as he supposed for the public welfare and safety, and when I recall the fact that he carefully reconsidered the matter and was convinced that he had condemned the innocent, when I see the despair of his soul as he realized that he could not bring back to life the dead, when I see him enter into his closet and close the door, when I hear him in anguish plead with God to forgive his sin, when I see him again at again on each sad anniversary of his sentence-giving, refuse all food and go again on each sad anniversary of his sentence-giving, refuse all food and go apara, alone, till setting of the sun, when I see him close his life in this deep contrition—then I cry, "Spare his grave! pity the dead!" Nay, rather almost worship him who could judge himself so more than justly!—[Good Fotth Faith.

Pocket Money-So much has been said about what the wife should have to get spending money from, that it is good to read what Au Revoir says (Feb 15) about having but one pocketbook for him and his wife, though perhaps one for each and free to both (as it has been with my wife and me) would be

Mrs. Barnard Thanks MRS. PINKHAM FOR HEALTH,

SLETTER TO MRS. PIMERAM NO. 12 and

"DEAR FRIEND-I feel it my duty to express my gratitude and thanks to you for what your medicine has done for me. I was very miserable and losing flesh very fast, had bladder trouble. fluttering pains about the heart and would get so dizzy and suffered with painful menstruction. I was reading in a paper about Lydia E. Pinkham's Vegetable Compound, so I wrote to you and after taking two bottles I felt like a new person. Your Vegetable Compound has entirely cured me and I cannot praise it enough."—Mrs. J. O. Barnard, Milltown, Washington Co., Mr.

An Iowa Woman's Convincing Sta-

"I tried three doctors, and the last one said nothing but an operation would help me. My trouble was profuse flowing; sometimes I would think I would flow to death. I was so weak that the lesst work would tire me. Reading of so many being cured by your medicine, I made up my mind to write to you for advice, and I am so glad that I did. I took Lydis E. Piuk-ham's Vegetable Compound and Liver Pills and followed your directions, and am now well and strong. I shall recommend your medicine to all, for it saved my life."-Miss A. P., Box 31 ABBOTT,

THE Pleasantest, most powerful, effective and never falling REMEDY for

Rheumatism Sciatics, Rheumatism Sciatics, Rheumatism Recruigie, DROPS LA GRIPPE and CATABRH: If all knew what thousands know of the efficacy of "5" rease wass DROPS" as a Curative as Dropation of the control of the c wall as a Preventive of any Ache or Pain known to the human body, there would not be a family in all America without a bottle of "5 DROPS!" Send for trial bottle, 25c, or large bottle, containing 300 doses, \$1.00, 6 bottles for \$5.

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more convenient. Eggs, poultry, butter, etc, might or might not furnish a fair amount of spending money for the wife. If she were extravagant, incapable or shiftless, perhaps the amount at her disposal should be limited and the same with the husband. But when both are capable, honest, economical and industrious, there seems no occasion for partiality in the amount of spending money each should have. And it also seems right that all in the family should do their fair share as needed for its proper maintenance, even though wife or daughters need to do some work considered as proverly belonging to men, and vice versa. Not that it would be best generally, but only in cases that ought to be rare, and when the necestities or happiness of the family require it.—[Thomas J. Powell.

A Great Wrong-The pocketbook question has been well discussed, but there tion has been well discussed, but there is still another great wrong to women which to my thinking is as grievous. When man and wife start poor, and both work hard, live economically and raise up a large family, and both succeed in earning a home, say 80 or 100 acres of land,—after the wife has helped to earn what they have, she has no share, no right, it all belongs to the man, and the man refuses to provide for her. True, she may have a third,—yes, a third of what she has worked hard for.—[One of Them.

Correction-In the Council columns far May 1 was an error of make-up which made the two paragraphs be-ginning respectively "Cruel parents" and "Once more" read wrong. The first three lines at the top of the third col-umn on Page 220, under the former head, belonged at the top of the first column on Page 221 in the "Once more" paragraph. paragraph.

Inquiring Friends-Mrs M. L., we rould like to publish your excellent letter, but the subject makes that course unwise.—R. G., we believe Theodore Thomas, the great orchestra leader, has his headquarters in Chicago now.—Mrs H. M. R., in the potato yeast recipe in our April 1 Issue, you can use any of the various kinds of yeast in the "one cup" referred to. Half a cake of compressed yeast dissolved in a cup of water will do also.—S. B., gluten bread may be made the same as wheat or entire wheat bread or biscuits, using all or part gluten flour.—Mrs L. W. C., "s c" in crochet means single crochet.—Mrs W. H. Q., we can't give specific cures for diseases in this journal.—L. A. H., we know of no fluid that a watch can be dipped into in order to clean it.—Mrs N. M. B., we don't know what marketable use "sumae bobs" can be put to. You should advertise your Belgian hares.—Can someone tell how to make "shrimp paste"—Leonie, there seems little doubt that the astrologist's art is founded on natural scientific laws, but he may not always interpret them rightly.—Philip, the answer to your coin query is given in our Feb 15 issue, Page 94.—J. W. M., directions for a knitted oak leaf tidy were given in our issue of June 1, "95.—Subscriber, the blograph is controlled by the American Mutoscope company, New York city. would like to publish your excellent let-

Teddy's Ride-Do you wish to hear some of my experience? I am a tele-

reddy's Rido—Do you wish to hear some of my experience? I am a telegraph operator on the Eric railroad. It was Sunday.nfternoon, fine wheeling and a model day. I went to see "her." She greeted me with smiles and in due time suggested that we should go for a ride. We started for the town of C—, intending to go to church. We got nearly there and of course something had to happen, so she dropped her handkerchief. I dismounted to recover it and when I got started again she was quite a distance ahead. Just at this point the cause of all my trouble shot by me on another wheel (a fellow of course and homely at t' 1t). I saw this game instantly. It was down grade. I soon gained on him. There was a sharp turn just before we reached the church. She was already there. I was coming around the curve slick and safe while the other fellow wasn't so successful. He needed the whole 20-foot road to make it. So he ran into my front wheel, turning me toward the aldewalk.

Well, he reached the pretty girl, while the sidewalk struck my front wheel. I came home on the train with a sprained ankie, and I didn't leave home again for three long weeks. The fellow went home with the pretty girl, and they added insult to injury by sending me their regrets. I have got that handkerchief yet. I have also made a "will," leaving all my blessings to that fellow. And I have lots I faith in girls.—ITeddy.

Ruling by Love-I am glad to see so nearly of our young people interested in



literature. No time is wasted that is put in in reading good litera-ture. My favorite prose writer is Mary J. Holmes. Her language

writer is Mary J.
Holmes. Her language
is so simple and easy
to understand. Longfellow is my favorite
poet. I do not enjoy
reading Cooper's works
very much because he
is not at all plain in what he wants to
say. I am a teacher and am just finishing my first term of school. I have
an excellent school and a good attendance, enough to keep me busy all the
time. Let us hear from more of the
young teachers and let them give some
of their methods of teaching. How
many can teach a six months' school
without having to "administer justice"
to some of the pupils? I never had a
rod in the school room the entire term,
for I never had occasion for it. A
teacher can manage her pupils better
by kindness than by force. Telling a
child day after day that he is a
naughty child will not make him a better one; but we must select some good
trait of the child and encourage him
in it, and by so doing you can overcome all his naughty habits and in a
short time you will have made a good
child out of perhaps the most naughty
boy in school. Teach the pupils the
first rule, "Learn to love your teacher,"
and if you succeed in doing this you
will have no trouble with them. Do
not have your pupils overburdened with
rules, as some teachers do. Make as
few rules as possible and you will readily observe that you will have no
trouble in having a good school. The
only rule I gave my pupils was this,
"Always do fight." There isn't anything I enjoy better than to be in the
school room with about 30 bright, intelligent pupils. It is so interesting to
teach the little tots and to take notice
of all the queer ways they have. Teaching is the only way to learn the nature
of children.—[Toots. ing is the only way to learn the nature of children.—[Toots.

Bookkeeping-I am bookkeeping for a merchant in the city and like my work very much. I have taught one work very much. I have taught one term of school, but like bookkeeping far better I like living in the city very well, but I don't think there is anything like living on the farm. But where I can do the best and earn the most money, there I am satisfied. Don't think me atingy, for I am free-hearted enough. Papa lives on a farm of 80 acres and it is situated 80 rods from a pretty little lake, which makes it very pleasant.—[Old Maid of Nineteen.

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Just fourteen).

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SECRETARY NO 80.

Summer Boarders-Among the many good things in F & H, I see no mention food things in F & H. I see no mention of summer boarders, and as I am thicking of taking a few this summer, would like to hear from those who have had some experience. I do not mean on any special point, only a general plan to help boarders have a pleasant vacation. Such an article would interest and help me, and perhaps others—[Mrs C. M. S., New Hampshire.

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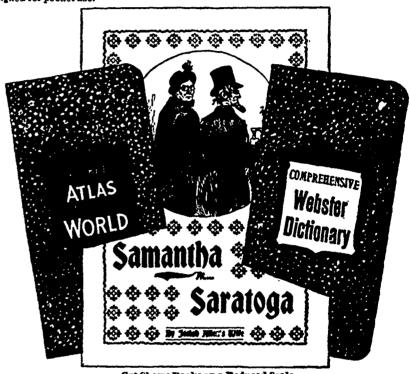
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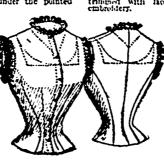








7951-GIRLS' DRESS, 1, 6, 8 and 10 years. I'ale thus and white foulard is here daintily trimmed with fluc Vaccuiernes lace and meket blue chition. The bertia, which, cut-lines the yoke, is of foulard is here daintily frinned with fluc Valendenns Lace and tucked blue chilfon. The bertia, which cutlines the yoke is of unique wall-ped shapline, claid with lucand narrow ilsertica. The full skill by gathered and attached to
the body under the
bolk. It is finished with
a bern at the lower
edge, machine sittched
Silk, challis. I remen
fained oreastimers made
in this style may be
trimmed with silver in
Lack both of lace it
has been and the lower
trimmed with silver
to floor of the color
to floor of the color
cut high or low neck and
trimmed with lace or
embrodiers.

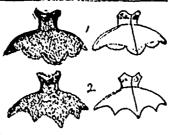


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in porton cuer leut le uith f riblen, lace.

LADIES MIRT T. WITH SCAL-D. YOKE, OLD D. N. J. J. J. J. d. 62 Inch. 18-1 Hillion Walst 16

Mending Granite and Agate WareThese utensiis cannot be easily so, dered
like ordinary toware, but can be
mended in two ways. Take a piece of
lead and cut it with a sharp knife,
sharp-ening it as one would a penell,
Put the small end of the lead through
the hole, then place the utensil on the
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7893- LADIES' AND MISSES' DROP ONE COLLARS, Ladies', 36 inch bust; misses', 14 years.





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LE!

I, Mass

DY. VANCE.

BEEN

Mollie May in New York.



My Dear Julia: I went to such a nice informal reception. Thursday evening, given in honor of one of our rising young artists, and I fairly reveled in the artisarists, and I fairly reveled in the artistic atmosphere. Then there was such a gathering of pretty women in new gowns fresh from the hands of the modiste! The pale colors predominated, such as beige and gray, and there were many white cloth gowns which looked extremely chic. All the skirts were long, in fact, they swept the ground, and were profusely trimmed with tucks, ruffles, ribbons and lace. Not a plain skirt was seen and would indeed have seemed out of place. One sweet maiden who pource at a kinty tea table decorated in pale, blunk green had on a charming white organic gown, which I mut describe to my You could copy it easily in any color and have a most fetching gown. Beskirt was laid in tiny box pleats from

the belt to within 14 inches of the hem, where they we o allowed to flare, giving generous width around the bottom of the si 'ri. Two ruchings of the organdle to med on both edes with pale bluish gr en satin ribbon trimmed the bottom of the si ... to nabout 10 inches ap The upper ruche was set on in the 1... of deep scallops. The waist was laid in pleats to correspond with those on the skirt, and finished off around the shoulders with a tiny fichu of the organdic, edged with the ribbon trimmed ruchings of the same. The tiny elbow sleeves were finished off with a band of ribbon and a smart, perky bow. This gown was very simple but effective, and seemed quite a relief from some of the over-trimmed lace gowns.

a smart, perky bow. This gown was very simple but effective, and seemed quite a relief from some of the over-trimmed lace gowns.

What impressed me at once when I entered the rooms was the remarkable variety of sleeves. Long, tight-fitting ones, the short elbow length and then the new bishop sleeve, the forerunner of the full sleeve, which we not cid will soon come in style again. This ne, sleeve with its light-fitting upper part and loose, bargy wer sleeve is indeed quite the latest thing and stamps a gown at once as quite up to date.

Of course you are anxious to know what I wore and how my gown compared with the others. I bought a foulard slik early in the year and had such a hard time selecting a color, as the new shades were rimply bewildering. However, I chose an o'4-rose background with an indistinct v hite pattern running through it. The sidt is box pleated (very narrow ones) and trimmed with small ruches of the same material edged with rows of black relived and white satin ribbon. The walst has such a pretty collar of finely tucked organdle, edgea with cream lace, when comes across the shoulders at the back like a salior collar and fastens at the bust with a black panne velvet knot and ends. The chemisette and collar are of the organdle with a plack panne velvet knot and ends. The chemisette and collar are of the organdle with a lace-trimmed cuff striped across with narrow velvet ribbon. This gown has been wonderfully serviceable for little informal affairs, and soon I shall be able to wear it calling and to the theater. I made a little sketch and inclosed it, as you might like to copy it in a thin gown of some sort. I must come to 4 close now, but the next time I write you I will tell more of my visit in New York. Lovingly yours, Mollie May.

Why was Robinson Crusoe not alone on his desert island? Because there was a swell on the beach.

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This is the sworn statement of a man who was cured:

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JOEL SEMMAKER,
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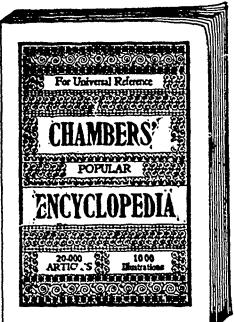
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Around the Globe.

Nicaragua Canal-Ignoring the Clayton-Bulwer treaty and the fact that Admiral Walker's canal commission had not yet reported and might not re-port in favor of the Nicaraguan route, the national house passed by a vote of 225 to 35 Congressman Hepburn's canal 225 to 35 Congressman Repburn's canal bill. The anotive apparently was to express a hearty belief in the canal project. It was generally understood that the measure would not pass the senate at this session. Some of the Washington correspondents said that another motive was defiance of C. P. Huntington's railroad lobby, which opposes the enterprise. The bill provides for the purchase of needful territory, the construction and ownership of the canal by the government and its "defined" rather than its "fortification," this latter a concession to opponents who plead our international relations as opposed to fortification. fortification.

The "Free Home" Bill, which has been before const ss for years, passed by the house of representatives. It provides that the government shall issue patents to bonailde settlers on agricultural lands already opened to agricultural lands already opened to settlement, on Indian reservations; shall pay the purchase price to the Indians, and shall pay the endowments to agricultural cell ges from the sale of public lands, in case of 4th tency. These payments involve \$1,200,000 annually. Of the 20,000,000 arcres in Indian reservations opened to settlement for which the government is to pay, or has paid \$35,000,000, about \$0,000,000 arcres have been taken and about 2,000,000 arcres summosed to be still available for agrinave been taken and about 2,000,000 are supposed to be still available for agricultural purposes. The venerable Galusha A. Grow of Pennsylvania, the oldest member of the house, spoke in behalf of the bill recalling his speech for the agricultural homestead bill 48 years are when he was the venerast years ago, when he was the youngest member of the house.

A Pan-American Congress will be held next year in the City of Mexico, through the instrumentality of our state department, All the republics in the department. All the republics in the western hemisphere have accepted the invitation. Not merely the fostering of our trade with echiral and South America is desired, but an opportunity to dispel the impression that our government has designs on Central and South American territory.

Church Gatherings-Worldly amusements, the liquor curse and divorce were considered by the Methodist general conference in session at Chicago. This great gathering followed close upanis great gathering to hower close upon the world's Conference of exanging cal missionary bodies at New York. The missionary gathering was notable for enthusiasm and the disposition to simplify creads and "get together. The daily attendance at the meetings was 15000. An international account research. 15,000. An international organization was formed after its close to carry out various plans set forth at the meeting.

Status of the Islands-Charles II. Allen was inaugurated governor Porto Raco May 1, and addressed his fellow citizens of the island with the utmost cordiality and the promise of liberty and progress. Meanwhile the question just how far the islands taken question just how far the estimes taken from Spain are subject to the federal constitution is before the United States supreme court, in several cases recently entered. Decisions in all of these cases entered. Decisions in all of these cases are not expected during the present term of the court. In the case of Porto Rico, the civil government bill as passed makes the island neither a state nor a territory, like Hawaii. The inhabitants are not citizens of the United States, but of Porto Rico, under the protection of the United States. Cuba and the Philippines are und r military rule, entirely at the discretion of the president of the United States, the former having profuse of home rule as good as she demonstrates her fitness for it

in his possession in the stock of an inin his possession in the stock of an in-dustrial combination. Formed for the purpose of controlling prices is illegal and unauthorized. The judgment also decrees that the trusters in the case in which the adjudication was made shall pay over to the estate, out of their own pockets, the sum thus invested, the same as if no such investment had been made.

Parcels Post-Following upon the parcels post treatics with Germany and Nicar wor comes a third, which has recently been consummated with Venez-It is said that negotiations along uela. this line are progressing favorably be-tween Postmaster-General Smith and the British postal department.

Personal Germany's crown prince, Prederick William Victor Augustus Er-

Prederick William Victor Augustus Erinest, became of age, or 18 years old,
May 6, which event was ecclinated
throughout the empire with thinksgiving and pialse. The future sovereign
is described as a modest, thoughtful
youth, with large gifts of intellect, who
looks like his father, Emperor William.
The children of the empirer are six
sons and one daughter.
Capt Chadwick of the navy was
severely reprimanded by Secretary
Long, in a public letter, for saying unpleasant things about Admiral Schley
to a newspaper correspondent, who
printed them in his paper. The correspondent, capt Chadwick said, abused
his confidence, the conversation being
private. Chadwick was captain of the
cruiser New York in the Spanish war
and Adme a Scal'y was in command
of the Erooklyn.

Beer Envoys constituting a peace emmission, sailed from Rotterdam for the United States in the hope of enlisting popular sympathy for their cause. They are President Wessels of the Orange free State parliament, Dr Mueller, the Orange Free State minister at The Hague; Dr Boeschoten, Dr Fischer and

American Lumber for Japan timber raft containing 14,000,000 ft is being made up at Puget sound for Japan. It will be convoyed by a half dezen gigantic tugs. This is the greatest enterprise of the kind ever undertaken, and may be the foreignner of an extensive business if this first raft. .111 be successfully tugged across the

New York follows the New York follows the example of Massachusetts in making a law prolabiting the wearing of song birds on

Thousands of Japanese have entered the United States at Port Townsend, Wash, or from Canada. The danger of a war between Lapan and Russia is probably responsible for this immigra-

tion.
There was wholesale slaughter miners by an explosion near Salt Lake City, at Schoffeld, nearly 300 being killed. Public sentiment is demanding precautions for the safety of miners.

Representatives of a large number of agreeultural and mechanical associations of the Dominton recently urged the Canadian governor-general to ask for a grant of \$100,000 to hold a Dominion exposition at Toronto at the same time the Pan-American exhibition oc-curs at Buffalo.

There have been organized in the U S in the past dozen years about 10,000 co operative creameries which make yearly about one half billion pounds of as good butter as the best dairies. of as good butter as the best dairies. It is generally admitted that creamery butter is worth 25 per cent more on the average than the homemade article, so it takes but little figuring to show that creameries are of \$25,000,000 benefit to the farmer each year to say nothing of the general enterprise which has brought about a large increase in the amount of the products -[A. . Lyman Mass

Beware of Tree Agents-A new tree-Trusts—Standard on's March dividend of 20 per cent was followed by a May 1 dividend of 10 per cent. This company has raised by 16 per cent the wages of 25,000 employees throughout the country.

A blow at trusts is a recent decision of the appellate division of the New York supreme court, which decides that the investment by a trustee of the funds.

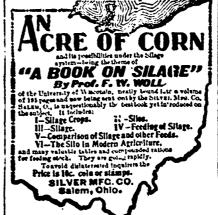
the nurserymen are well aware that only a small part of fruit trees planted ever live to bear, especially when set by mexpertenced men, they expect the 65 first payment to cover the cost of trees, planting and profits and anything received after that is clear gain. It is not advisable to plant several kinds of fruit together in this way and the one who tries it will be sick of it in a few years. The trees to plant an acre can be bought of reliable nurserymen who advertise in Parim and Home for less money and the buyer can have the choice of varieties, while in the other case he would have to take what no-hody else wanted and varieties which would probably be unsuitable or undesirable. the nurselymen are well aware that strable.

Judicial Scoring on Oleo-The Ohio supreme court has ousted the Capital City Dairy Co, one of the two oleomar-City Dany Co, one of the two eleomargarine manufacturers of the state, by compelling it to sell its product uncolored. The decision is based on the violation by the company of the law forbidding the use of artificial coloring matter in eleomargarine. Without coloring matter, there are but few who will bay the stuff. The decision is a great victory for the dairy interests, but has been appealed to the U S superior court. perior court.

The Kieffer Pear has become one of the most prominent fruits of the day. the most prominent fruits of the day, The price of trees has greatly advanced and nurserymen are unable to supply the demand. Bearing trees had a good crop last year. The Kieffer has depreciated the value of the lusclous and faultiess Bartlett, Lawrence, Anjou and others of this class. It may be shipped to foreign lands and many have been sent to Europe. The practice of labeling canned Kieffer Bartlett is not to be commended, as when canned they are commended, as when cannot they are as good as any other variety.—[R. S. Emory, Md.

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