PRACTICAL FARMING.

PLOWING AND HARROWING.

The plow in principle may not have changed much in 2000 years, as has been stated, but individual plows have been greatly improved, so that the draft is much less and the labor for the operator greatly reduced. Scientific principles have been studied, and the plow has been so constructed that the resistance is reduced to a minimum, while doing the work most effectively. The most recent improvement is the selfsharpening plow point, consisting of layers of edges, so that as one wears cumstances) with a slanting toothed off a new and sharp edge is presented harrow. When sown with spring instead of a dull surface. This makes the draft much easier and saves the bother and expense of re-sharpening. A great variety of implements have been tried as substitutes for the plow, but they have not proven satisfactory under all conditions. The depth of plowing has been the

cause of almost endless controversy. In the corn belt, as a rule moderately deep plowing has given most satisfactory results, all things considered. It is obviously unwise to make any great variation in the depth of which any one field is plowed during one season, for by suddenly lowering the plow two or three inches, a cold raw earth is thrown out on top. This is unsuited to the best development of the plant, and until the air and sun have affected it for a couple of years, it will not be in the best condition. The object of plowing is to get the upper layers thoraughly loosened and pulverized, so that the plant roots can readily penetrate | tion, towards holding up the flow. But, them. The loosened surface acts as a sponge for absorbing and retaining the moisture until needed by the growing crops. It does not matter whether slow milking. A moderate, careful perthe upper surface be turned or not, nor does it make much difference by what means this breaking or loosening up is accomplished. If shallow plowing and subsoiling will answer the purpose, follow that practice. If, however, this condition cannot be secured except by if she is startled, her only refuge is deep plowing, it usually will pay to to jump or kick. plow deep. On very wet low grounds deep plowing is obviously unnecessary, as the retention or moisture does not have to be looked after so carefully, In sandy or very loose soil deep plowties of water. The above applies more result.

that it would pay to have an extra ani- long and well. mal or two rather than exhaust the farmer or his hired man.

The preparation of the land just before planting demands more and more attention, as the soil becomes less productive and drouths more frequent and severe. Ordinarily the cornfield is harrowed until the surface is level, little attention being given to, the condition of the soil more than two inches below the surface. With several seas- \$11,222,840. The diamonds taken from ons of severe drouth, however, it has the mines sold for \$15,530,790. The exbecome necessary to so pulverize and compact the plowed portion that large air spaces do not remain, allowing the excessive penetration of air and consequent detrimental evaporation. This thorough preparation is best accomplished by means of disk or acme harrows, ordinary toothed harrows and drags. The first named penetrate much deeper than the ordinary harrow, break up clods and eliminate air spaces. If the field is disked once or twice, then ed. straight toothed harrow, it will usually * layer to bake. Evaporation then takes world of disenchantment. place very rapidly and the crop is seriously injured at the outset. As soon 0.85 carat in each load of clay. The averas the grain, if it be corn, appears above age value of the diamonds mined was the surface, cultivation must begin and 25s. 6d. a carat, say \$6.12. At the close the upper layers be kept in a finely pulverized condition, so that they may 360,256 loads of clay on its floors ready

It has been demonstrated during the past few years that the more complete the preparation the better the crop. The cultivation then can be greatly reduced, and the results more satisfactory. Many a farmer will say that he cannot spend so much times in preparing his soil, and that such attention to the more scientific methods cannot be given. This is a fallacy which must be abandoned as the years go by, for the changing conditions demand more thorough work and greater attention to details. During the great drouth of '94, the farmer who thoroughly prepared his and had a fair crop and in many cases a good one, while the man who neglected thorough preparation reaped a small harvest.

SEEDING TO CLOVER.

Hords Dairyman gave a correspondent some advice on seeding to clover, first, without a nurse crop; second, with pats; third, on fall rye.

The amount of seed required will be the same in either case, and this will vary according to quality of seed, from twelve to twenty pounds per acre. It is a most excellent plan to test the ed) hundred separate seeds in fine earth be sunny. or between flannel cloths, keep moist and warm and note how many seeds eight pounds to the acre will probably

suffice, but more will do no harm. The best way to sow clover seed is to get one of the inexpensive broadcast seeders, that are carried from the shoulders IS THE NORTH POLE REGION IN and are worked by hand, either with a crank or bow. These are usually kept in stock by dealers in agricultural implements and frequently by hardware merchants. Sow clover early in the spring, as early as the ground can be worked. Sometimes a good catch is obtained, on ground seeded to rye or wheat in the fall, by sowing the clover on a light fall of snow, or in the early morning of those spring days, when the ground is alternately freezing and thawing, but it is surer to wait a little, until the surface will bear dragging, and then sow the seed and go over the ground once or twice (according to cirgrain, or by itself it is better to use the harrow for covering than to depend upon a rain storm. When sown without a nurse crop, (robber-crop would be a more appropriate name) there is a probability that the quicker growing weeds will spring up and check the clov-er. If this should be the case, go over the ground with a mower, having the cutting bar raised high enough to miss most of the clover and clip the greater part of the weeds. If the weed crop is so prolific that when left on the ground, it will smother the young clover, it must be raked off.

METHODS OF MILKING.

To get good results from a cow it is necessary to keep her in a quiet, contented condition at the time of milking. This end is accomplished best by always feeding the cow at that time.

Many do not want cows to eat then, claiming they will give attention to giving down milk better if not fed, but if they give attention I think they are more lik ly to give it in the wrong direcwhatever plan is followed, a constant land in a region that exclusively mainand regualr method will prove more satisfactory than irregularity.

Rapid milking may be as injurious as son will get all the milk there is. In cases of, disease of, or accident to, the udder, great care must be exercised not to worry the cow, and with this care, and not allowing double time for milking, the worst case of ordinary udder troubles can be handled. Always speak to a cow before sitting down to her, as,

GOOD ADVICE.

Our advice first, last and all the time is to go into no wild-cat creamery ing is not essential, as the roots can eas- schemes without first having given the ily find a passage and the land is in matter a good and intelligent sifting. a condition to retain large quanti- We are continually hearing of jobs of particularly to the preparation of land | this kind being put upon farming comfor wheat and corn. Shallower plowing munities by irresponsible parties who will answer very well for oats and grass | care nothing for the success of the unseeds. Three inches is usually suffici- dertaking beyond getting a good fat there is apt to be as much of it as is ent for these later crops, while for rake-off for their own pockets. Where found on Spitzbergen-that is to say, corn and wheat six and seven give best there is any doubt as to the proper course to pursue in matters of this At one time the various riding and kind there should be no hesitation a few flowering plants, such as the yelwheeled plows were not universally lik- about getting the counsels of reliable low arctic poppy. ed, as they were considered horse-kill- about getting the consuls of reliable ers. This heavy draft feature has been | men who are in position to give advice eliminated somewhat, and as the work that is worth something. It is said is done better and as horses are so that talk is cheap, and so it is. It cheap, it is certainly advisable to buy doesn't cost the fellow much who does them. Human strength is so much the talking, but it is often a very dear more valuable than that of the horse commodity to the people who listen too

PROFITS OF DIAMOND MINING.

The Net Income From the De Beers Mines In South Africa \$11,222,840 Last Year.

The South African diamond mines of the De Beers Consolidated Mines Comprofits on various investments, and miscellaneous sources of income brought up the year's profits to the sum mention-

harrowed with a heavy smoothing or | Dividends at the rate of 25 per cent. per annum were paid, which disposed not pulverize the lower layers of the and invested in consols and other sure plowed portion. Rolling has much the things, thus assuring another year's same effect and is a valuable aid when dividend in advance. From all of which the weather is quite dry, but during it will be seen that diamond mining the wet season it may do injury by com- comes about as near to what it is crackpacting the surface and causing the top ed up to be as anything does in this

> The average yield of diamonds was of the fiscal year the company had 3,for the shifting process. This was taken into account as being worth, in dia- Now, the Esquimaux are proverbial for mond possibilities ,1s. 6d. a load, al- their hospitality and amiable inclinathough the clay has usually averaged tion towards strangers, and they were 2s. 6d. a load. This would make the astonished when the three men took real profits, realized or in sight, even fright on seeing them and ran away more than stated in the figures given over the ice to the northward. This above. And last year's results showed was what had caused the excitement. an increase in revenue from diamonds | The Esquimaux declared positively

This is an increase to the company's profits of about \$2,500,000 over last year. The syndicate bought the product of the mines from July 1, 1895, to Dec. 31, 1896.

CAUSE AND EFFECT.

and begin living with a husband that grow. If 90 per cent. of the seed sprout, all the sunshine jes out of their life. Mr. Henpeck subsides.

HABITED AND BY WHOM?

Animals That are Supposed to Exist There -Birds Peculiar to the Arctic Region-A Strange Tale From Point Barrow-A Fresh Water Floeberg That Gen. Greely Saw.

What is the North Pole like?

It is situated on land; that seems to be almost a certainty. There is land bare of ice in that part of the world, and clear water too. Good and scientions. That the region in question is inhabited by various animals is an undisputed fact. It can not be asserted with human confidence that human beings do not live there.

It is known that several species of birds live and breed in regions so far from the sea. to the north of any point as yet reached by explorers. They are seen migrating toward the pole, their flocks vanishing into the unknown beyond. Obviously, their young on ice floes or bergs, and they find bare land suitable for the purpose. The rosy gull, most beautiful of all its fleet-winged tribe, spends sumand unexplored area. Its species is actually restricted to that area, only occasional specimens being seen outstorms. Only once has a flock of rosy gulls been seen; it passed Point Barrow, the most northerly point of Alaska.

There must be no small extent of tains a whole species of animals. Open water there must be all the year around, else the rosy gulls would starve. Doubtless the birds skirt the ice fields in winter, looking for fish. Two species of sandpipers breed in the unexplored area. The same may be said spring brant are seen from Point Bar- on the same plan. row, flying northward, whither no human being has yet been able to fol-

If there be a polar continent, there is no reason for picturing it as devoid of animal or vegetable life. In its surrounding waters are

PLENTY OF FISHES,

doubtless, as well as numerous species of crustaceans; in its bays seals disport themselves perhaps, and possibly walrus are not absent. As for the flora, plenty of mossed and lichens, with even

The most interesting question about the north pole is as to wnether hu- coast of America and to discover the places. My last work on the lecture man beings are to be found in its vicin- islands and archipelagoes poleward platform was in the Blue Grass region might be imagined. From decade to ern hemisphere. decade bold explorers have ventured And yet, however, more than 8,000,- not go to Kansas. I was quite success-

here may as well be told a remarkable Its flora is extensive, and reindeer were days. Nearly every fact in her story story that rests on the authority of once so plentiful there that Russian and was given to her by me at that time. Capt. Herendeen, formerly engaged in Norwegian hunters killed them by "There is a wrong idea in the minds

world ever goes out

WITHOUT A GUN.

produced and sold of \$1,428,955 over the that the three men were not of their An increased price was received for this a certainty. If so, whence did they year, and the directors believe that the to be that they had drifted on an ice ing persons suffering from leprosy, present high rates will be fully main- floe from an unknown land far to the smallpox and other contagious disordble and then leave it to complete the ad- being so affected.

venturous journey in his little boat. The Arctic Ocean is very shallow, and it is natural to suppose that there would be areas of land uplifted above its surface. So much may be taken for they must come from a land area far ating.

to the north. The very size of the bergs proves that the land area must "UNCLE TOM" IS IN WANT bergs proves that the land area must be of great extent. On one occasion he saw in Smith Sound such a floeberg that was 800 feet thick and that must NOW EIGHTY-FOUR YEARS OLD AND have required something like 2,400

years for its formation. Such a floeberg is quite different from an iceberg of glacial origin. The latter is a piece broken off from the end of a stream of ice that flows from the land into the sea. The floeberg, on the other hand, was stratified deposit originally formed on land by the snows of successive winters. Eventually its weight became so great that it

SLID INTO THE SEA. Seen in sections, the strata composing it could be counted. Each of them representing a year; the winter's snow- paper reporter last week. tific reasons lie back of these assump- fall was followed by the summer's partial melting and a layer of dust from the air. Thus the layers of snow were marked by corresponding layers of dirt, the strata averaging about 5 inches in hair, his face brightened, and he began thickness, so that it was easy to reckon | telling of his tribulations in a weak, the age of the berg approximately. The fact that it was fresh water ice proved that it came from the land and not

The old notion of a Palaecrystic sea, or a sea of ancient and never-melting ice around the pole, was long ago exploded. It was originated by the explorer Nares, who believed that the wathey cannot lay their eggs or rear ter in that part of the world was frozen down to the very bottom of the shallow ocean. On the other hand, the idea so it must be taken for granted that of an open polar sea, as conceived by Kane, is no longer entertained-that is to say, of an ever-open sheet of water surrounding the pole. The fact seems to be that there is always more mer and winter within the mysterious or less water in that region, though saved and thought I could rent it for where there is ice in one winter there may be no ice in another. In other words, the conditions vary. One of the most promising suggestions for arctic about a year ago the house burned, side of it, driven to the southward by explorations thus far made is that sev- and the little insurance was not suffieral nations should combine for the pur- | cient to rebuild it. It was rebuilt, but pose of reaching the pole, Suppose that the United States, Great Britain, I had to go in debt considerably, and France, Germany, Russia and Japan here I am living to-day, alone, with she id each furnish a ship. Then let nothing in view of the long cold winthese ships start at the same time to enter the arctic circle at as many points around the world. Each vessel should have orders to go northward as far as practicable, and then to pause for the winter, build a house and wait for summer to come again. At least one chairs, and a few cooking utensils are of the ships would be pretty sure to the furnishings. When he has anything find an open waterway, though the others might be stopped by ice, and so the goal might be obtained. If not, the of at least one species of goose. Every ships would proceed the next summer

The certainty that there is a good deal of open water toward the pole affords the best promises for the success of future attempts to reach it. In 1884 Wrangle started on a sledge journey northward from the north coast of Siberia, but was compelled to turn back by finding

OPEN WATER AHEAD.

Nordenskiold spent a winter at Pitlekai, on the north coast of the Chukchee the cause I espoused fifty-four years Peninsula, and all-through that season ago. I was a slave down the Ohio rivhe saw water reflected in the sky to er on the Kentucky shore in 1841. When the north. If Nansen does not reach I learned that I was to be sold I made the pole, somebody else will do so be- my escape from this State at night and fore long. The greatest successes in went to Canada. arctic exploration have been made with- "From the day I reached the Dominin recent years. During the eighteenth ion until the present time my work has century nothing worth mentioning was been the freeing and bettering of the accomplished in that direction. It re- condition of the negro race. I have lecmained for the nineteenth century to tured in almost every city in the United accomplish the northwest and the north- States. I had tremendous audiences in east passage, to outline the north New York at Cooper Union and other ity. Such a notion is not as absurd as from the three continents of the north- of Kentucky in 1881-2, when I begged

further and further toward the north- 000 square miles of arctic territory re- ful in my efforts at that time." ern extremity of the earth's axis but, main unexplored. There has been a however high the point reached, people tendency of late to cry down arctic exhave always been discovered dwelling ploration as unprofitable and uselessly there. A short time ago Nansen outlin- wasteful of life. Yet the fact is that el is the only literature in Uncle Tom's ed the north coast of Greenland, proving enterprise in this direction has been en- home. It was found high up on a shelf it to be an island. Yet, at the north ormously valuable to mankind. With- over a door. end of the island he came across a col- in the last two centuries it has furnishony of 179 Esquimaux, pursuing a con- ed to the civilized world products ag- in this work from you?" tented and fairly prosperous existence gregating \$1,000,000,000,000 in market pany yielded last year a clear profit of by the means of hunting and fishing. | value, the most important of them down to Kentucky and began teaching

> died in the sixth year, but the others were rescued soon afterwards.

CONSUMPTIVES NOT WANTED.

A draft of the bill prepared by the government of New Zealand for the exclusion of consumptives from the colony has been received. It is framed on the diamonds last year over the previous come? The only tenal le theory seemed lines of the present legislation excludtained if the output is carefully regu- north, the existence of which was as- ers, except that it imposes an extremelated. There is a good deal of skill ne- serted by a tradition among the Es- ly heavy penalty upon captains of ships cessary in the manipulation of an out- quimaux. They say that some of their | bringing consumptives to port, whether put of \$15,000,000 worth of diamonds a people were once carried away by a knowingly or unwittingly. This law year. The company's future is com- storm and reached this land, subse- if passed, will compel the captains, as fortably assured for some time at least, quently returning. One of the na- a matter of self-defense, to require all as a diamond syndicate has purchased tives was so confident of the truth of intending passengers from American, the output of the mines up to Dec. 31 | the story that he begged Capt. Heren- English or Asiatic ports to provide next at a price equivalent to \$18,000,- deen to secure for him a passage on a themselves with medical certificates 000 for the twelve months of this year. north-bound whaler, in order that he showing that they are neither consumpmight go with the ship as far as possi- tives nor exhibit any tendencies of

ITALIAN PATRIOTISM

The Italians are flying in trainloads granted as a fact; but nobody can say across the border into France, for fear Mr. Henpeck (meaningly-Ella Wheel- with certainty whether the land is a of being drafted for the African cam-Mr. Henpeck (meaningly)-Ella continent or an archipelago of islands. paign. It would be hard to find in his- it? seed before sowing, by putting a (count- Wheeler Wilcox says all girls should lieves, that it is a continent. He says It is the well-to-do, or tolerably so, who Mrs Henpeck-Huh! Most girls are that immense masses of land-made ice are running away, while the poor, who sunny. It's after they become women are seen floating southward through have not the money, are forced to stay Kane Sea and Smith Sound under such at home. It is no wonder that the king, circumstances as render it certain that who is a sensible man, thinks of abdic-

QUITE FEEBLE.

The Old Negro Original in His Kentuck) Hut-Once Escaped to Canada-The

Friend of His Race. Lewis George Harris, or Clark, as he is known, the original Uncle Tom of Mrs. Harriet Beecher Stowe's "Uncle Tom's Cabin," who is now on the verge of starvation, was visited at his humble home in Lexington, Ky., by a news-

He is now eighty-four years of age, and is quite feeble. When asked to speak he brushed back his grey, kinky shaky voice:

"I have not been able to get about much for the last two years on account of a very bad spell of grip, which came upon me just after I moved to Lexington. I am all alone in the world, and I came to Kentucky to spend the last days of my life, because I feel more at home here.

"But it does seem that the world is using me badly. Sometimes I am very despondent. I bought a cottage here in Lexington with what little money I had enough to exist on. My tenant ran away and never paid me a cent, and

CAME TO CANADA.

The interior of Uncle Tom's cabin is dismal. A rude bed and three cheap to eat he prepares his own meals. He was asked how he lived.

"Some days I have nothing to eat. Others days I live on what I can buy for five cents. In my day I handled thousands of dollars, travelled all over the United States in good style, and never knew what it was to want for anything. . It is killing now, at my old age, to find myself without means of existence."

Uncle Tom was asked what he did with the large sums of money he made lecturing and in other ways.

"I used every dollar of it to forward

my people to remain in this state and

PRINTED IN A PAPER.

A greasy old copy of Mrs. Stowe's nov-"Did Mrs. Stowe get many facts used

"She certainly did. When she came The man who is lucky enough to dis- being yielded by the whale fisheries. school she knew nothing of the slave cover the north pole may well feel Comparison has been suggested be- question. One day she saw an auction somewhat discouraged if he finds a lot tween the climatic and other conditions sale of negroes at the Mason County penses of operating the mines for the twelve months, including a liberal allowance for deterioration of plant and severe; it is certainly not nearly so cold chipelago of Spitzbergen is described upon her book, until she went to Camas north latitude 68 degrees. On that by Gen. Greely as the most interesting bridge, Mass. I was living there, and for interest on debentures, were about coldest latitude is situated the town of Arctic lands. Though so near the she called at my house and talked with \$8,525,000. Money received for rents, of Werkojansk, in Siberia. And just pole, its climate is comparatively mild. me, and made notes for three whole

the arctic whaling service. The event thousands annually. On one occasion of most people, even to this day, that he describes occurred in the winter of four Russian sailors were cast away on Mrs. Stowe's work was first printed in 1885, which he spent at Point Bar- the east coast, where they remained a book. It was not. The Abolition seven years. They had only one gun Society was publishing a weekly paper There is an Esquimau village at Point and a few rounds of ammunition. Their in Baltimore, which received a serious be in first-class condition. A drag will do much to pulverize clods on the sur- of about \$5,000,000 of the profits, and also a whaling station. One experience in this polar land outdid the backset when the Fugitive Slave law face and compact the soil, but it does equal sum was set aside as a reserve day there was a great commotion, and romance of Robinson Crusce. From was passed in 1840. The managers of Capt. Herendeen saw half the people driftwood cast upon the shore they made the abolition movement met. They deof the village running, evidently much arrows and spears, which they tipped cided that it was necessary to do someexcited. They came to him and told with whalebone. These were supple- thing at once to put new life into their him that three strange-looking men mented with bows that were strung newspaper and make it a power, if poshad been seen on the ice off the Point. with the twisted entrails of reindeer. sible, for abolition. It was at this meet-They were dressed peculiarly-not in They devised traps for catching blue ing that instructions were given to the deerskins, but in a white fur which was foxes and nets for snaring water fowl. secretary to write a letter to Mrs. supposed to be that of the polar bear. They labored not only to sustain life, Stowe, offering her \$100 for a series of They acted as if very tired, and it was but with a definite purpose of acquir- articles on abolition, to continue one noticed that they had no guns. This ing stores of fur and bone of commer- year. She wrote an acceptance, but, inlast point was particularly surprising, cial value. So successful were they stead of contributing editorials, she sent inasmuch as nobody in that part of the that yearly they made large additions in instalments of the story 'Uncle Tom's to their stock of skins of polar bears, Cabin,' which she had about completed. reindeer, seals and foxes. One of them After the story had run through a dozen copies of the abolition weekly its circulation had increased to such an extent that the management sent Mrs. Stowe \$300 additional for the work.

AWAITING THE END.

"When the story had been run out in the paper the managers wished to republish it in book form, but they learned that Mrs. Stowe had copyrighted the work."

The book was published, and Mrs. Stowe received a royalty of 15 cents on each copy, and the sales were so large that it netted her a comfortable fortune. It has since been translated into and published in more languages, so book men say, than any work ever written, except the Bible.

Old Harris talked on interestingly for an hour. His mind is clear and his sight is still good. There is no doubt, however, that he is in need. His parting words were: "Tell my friends in the North that I have fulfilled my mission as best I could and am now awaiting the end here in old Kentucky."

AN IMPORTANT POINT.

Mr. Askin-My precious one, will you share my lot? Precious One-Is there a mortgage on

TO BE MORE ACCURATE.

Mr. Manhattan (to Miss Bawstawn)-Do you ride a wheel? Miss Bawstawn-I ride a pair of wheels.