Apparently, the French have won the race for the upper Nile, thus extend- the things they purchase which they ing their French Congo territory east- can produce, the sum will be a comparward to that stream; though the ru- atively large one for an entire year. more that the Marchand expedition is It may be urged that the cost of a descending the river in order to make garden is too great when one is busy good the French occupation as far with corn and other stable crops, but north as Khartoum, is to be discredi- there are hundreds of acres of corn ted, as involving an alliance with the and wheat produced which do not give Khalifa, regarded as wholly improba- a profit of \$5 an acre, while an acre Berber, and their gunboats patrol the as much. The market for the product river as far south as Shendy, within of the garden being at home, there are 100 miles of Khartoum, they must in no transportation expenses, and at the any race for possession of the latter present day, with horse-hoes, wheelplace, have the better chance of reach- hoes and other labor-saving impleing it first. But the fact that France | ments, the cultivation of a garden has has established herself at Fashoda, and is thus in position to challenge Bri- farmer who is careful to give his anitish control of the Nile, and to defeat | mais pasturage and green food, because the proposed extension of the Egyptian by such methods he promotes their empire to the south has produced a for himself and family. He should situation so grave that the British make a beginning at some time, and force in Egypt is being largely rem- first make it a point to have in addiforced and preparations made for an Immediate advance southward. True, amnouncement is made that the movement is due to a threatened advance of the Dervishes toward Berber, and that it does not imply any early advance toward Khartoum; but there is | ting in more peas and also Lima beans, Httle doubt that the British author-Ities intend to leave nothing to chance. and so far as possible, to make their claims good by actual occupation. The real question is, however not whether a final movement is to be made against. the Dervishes, but whether France will insist upon ownership and control of the region between the French Congo and the Nile traversed by her agent, and that will be settled, not by advance on Khartoum but by negotiations between London and Paris.

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SIZED UP.

Are you the manager of this store? Yes, sir. What can I do for you? I want to enter a complaint. What's wrong?

I asked that young woman over there if she had any ear muffs! She said, "For yourself?" I said "Yes," and she told me to go to the third counter nouth.

The third counter, south, sir, is the overshoe counter.

HIGH LICENSE VS. PROHIBITION.

Temperance Advocate-I see you have high license in your town. How does

Col. Rumnose-Miserably. There are so few saloons that you can't enter one without having to treat a dozen friends; and there being no competition, the whisky is vile. High license is a failure. Give me prohibition and plenty of drug-stores.

HIS RANK.

Twynn-You addressed that man as General, didn't you? Triplett-Yes. How did he acquire that rank? I conferred it on him. What for !

IN THE FULLNESS OF TIME.

Because he is a general nuisance.

Mabel, hew long has young Spoonsmore been coming to see you? Four years rapa. You can tell him I think that's long

TO GROW A GOOD CROP OF OATS.

First it is necessary to have a good much by previous cropping will not do. England wants is to hold the whole Oats will not do well if sown after valley of the Nile up to the great lakes, wheat, neither will they flourish on for by the owner by the fact that tend her empire from the Mediterra- a crop of hay was taken the previous clay was thoroughly dry. These depresnean to the Cape, while France wants | year, especially timothy, writes John to control the upper Nile as a weapon Jackson. Sod ground, well covered it would remain so if allowed to get with which to force England to relin- with barnyard manure, plowed early in perfectly dry before the cows were put quish her hold upon Egypt in favor the spring and planted to corn, if kept on it again. of the republic. The former bases her free from weeds, makes an excellent

After the corn has been removed in of the old Egyptian Soudan, and al- the fall, and before wet or freezing leges that the boundary between it weather sets in, plow to a good depth, and the French Congo on the west is leaving plenty of open furrows so that the water shed between the Nile and all surface water will run off freely. than if plowed in the spring. On this account many advocate spring plowing sent, any power may occupy it. Acting for this crop. But after years of experience and observation, I am convinced that it is better to fall plow for oats, because they require a compact seed bed and the seed can be sown a week or ten days earlier, which often makes a gain in yield of ten or fifteen bushels per acre.

Good clean seed is necessary for a good trop. No matter how clean oats junction with it. Attempt was made may appear as they come from the threshing machine, it always pays to reclean them by running through a good fanning mill. The amount of seed per acre often depends on the kind of soil, and every farmer should be able to settle this question for himself. On heavy land oats generally do best sown broadcast and the roller should always be used to finish up with.

ECONOMY OF GARDENING.

If farmers will estimate the cost of Moreover, as the British are at devoted to a garden will give ten times been reduced to the minimum cost, but little hand hoeing being necessary. The comfort and thrift, should do the same tion to apples, pears, plums, peaches and cherries the small fruits, such as raspberries strawberries, currants, and gooseberries. Establish an asparagus bed, and plant for an early supply onions, peas, lettuce, radish, kale cabbage, cauliflower, beets, parsnips, salsify, and even early potatoes, later puttomatoes, string beans, late cabbage, squash, melons, etc.

> TICKLE THE EARTH WITH A HOE. The gardner will always find abun-

dant success if he will not neglect this by nitrifying organisms. tickling of the soil with a hoe or cultivator. It is wonderful what tillage will bring out of the soil. Most men timid persons. Potted meats are simmust till to keep down weeds. They do ilarly infected. not realize that the benefits of this work are far above any mere weed quantities of bacteria, so that we habkilling.

By persistent cultivation we get the soil loose and mellow, porous and light, so air can enter and roots freely branch | enteritis in children especially during and distribute themselves throughout the hot summer months, and this afthe entire mass of earth within their reach. Furthermore, tillage is a breaking-up process, particles of rock and organic matter being reduced in size and made available for the nutrition of crops.

Then there is the immeasurable effect of shallow surface cultivation in forming a mulch upon the surface of the ground, a thin layer of loose, dry earth to cut off the rise of moisture to the surface and its subsequent evaporation and loss to the use of the growing plants. Water in a drouth is a triceless boon to vegetables, and conserving the supplies of moisture is one of the most vital subjects with which the agriculturist. has to deal. Tillage is to a certain degree manure, as was claimed by Jethro Tull of old.

TO MAKE A STABLE FLOOR.

First make a tight gutter of planks ed and the other pronounced harmless. and out it in place, then fill in front of the gutter, where the cows are to stand, with clay. Place a two by twelve plank next to the gutter for the hind feet of the cow to stand on. Spike this plank to the edge of the gutter. Fill with clay, well pounded down even with the plank in front of it. After this clay gets dry it will make an excellent floor, and it will stay good as ment, said the proud politician as he long at it is kept dry, but if it gets He knows it b. He's coming to see moist where the front feet of the cow

sions made. A short time ago we vis ited a large dairy farm, where one hundred or more cattle were kept. A part of the stable floors were made of clay, as we have described, and a part were cement. To our mind the clay floor was fully as desirable as the cement. seed bed. Soil that has been exhausted They had both been used about a year. There were some slight depressions in the clay floor, where the front feet of the cows stood, but this was accounted sod ground; that is, land from which these floors were put to use before the and the floor made smooth again, and

THE MANURE HEAP.

"Fire langing" of manure is destructive and, although it is a wellknown occurrence in manure heaps, some farmers do not try to prevent or suppress it. It is simply overheatits tributaries and the Congo and Land that has been plowed in this man- ing to the manure, due to rapid de-Shari and their tributaries. On the oth- ner in the fall will dry off and be fit composition, a large proportion of the er side France insists that Egypt for- to work early in the spring. After the ammonia being liberated and lost. When weather becomes settled, and the fire-fanging occurs drive a crowbar in- before this direct attack, and by eleven feited her right to the region when, ground is dry enough to work, the soon- to the heap in several places, and pour in 1883, at England's advice, she for- er it can be fitted and the oats sown, in cold water. What is better, wet the mally evacuated it, that in consequence the better. Fall plowed ground will manure and turn the heap over, add- been gained with only trifling casual require more harrowing or cultivating ing dry earth and plaster, placing the ties. The survey party at once got coarse portions of the manure in the to work, and Sir William Lockhart arcenter. Cold water absorbs ammonia and prevents its escape, and unless it is used much of the volatile ammonia eral Westmacott on the crest of the will escape while the manure is being ridge, whence a fine view was obtainhandled. The heap should not be kept wet, however, but slightly damp, which will promote decomposition; but overheating may always be controlled by cold water.

ECONOMY IN HAULING

carried. If not then two trips must be made and smaller loads carried. Let any farmer estimate how much he loses as the difference in large and small loads, and loss of time in the mud, and he will make less objection to road tax in the future

WALKING GAIT.

Walking is one of the gaits that is and support was close behind. active, quick, clear-footed walk is valuable gait to the horse intended for the farm, for use as a roadster or for a saddler. A horse broke to harness is generally trained for awhile at the side of some steady old animal, and the youngster, if inclined to walk fast, thing to do. For that reason it is best to break a young horse in single harness or under the saddle, and train him to be a good walker as well as good at other gaits. A three-year-old is generally a better walker than he will be at any other age if he is kept as a harness horse, unless specially trained with a view to brisk, active movement in that gait.

GERM LIFE.

It is impossible to obtain milk free from bacteria.

The friendly services of the bacteria outweigh the injuries they inflict up-

cheese, is not relished until it is teeming with organisms. Plants make use of micro-organisms

and vegetation is immensely assisted All cold meats contain numbers of

organisms large enough to frighten

itually consume numberless micro-or-Bacteria in milk is frequent cause of

fection destroys the lives of many It is important to avoid all dangers and risks by collecting and preparing the Northampton column was almost food properly, by cooking it sufficient- home, while the tail was still at the

been kept too long. Numbers do not form an exact criterion as to the harmful properties of a fluid or food; the character of the line with the Dorsets guarding their bacteria and the manner in which they right flank, he withdrew, clear of the

oughly impregnated with bacteria. The only real danger with the former is that the beds may have been contaminated with sewage pollution.

The difference in the character of the germs in our food and their method of introduction are the factors in determining why one should be suppress-

SAFE.

She-Mamma is in the next room. He-Do you suppose she would know it if I should kiss you? She-Oh, no. She is very deaf.

MADE THE ALLOWANCE.

Oratory is a gift, not an acquiresat down after an hour's harangue. I understand, said the matter-of-fact chairman. We're not blamin' you. You stand, there will be holes and depres- done the best you could.

AN INCIDENT OF THE FIGHTING O THE INDIAN FRONTIER.

Brave Men Placed at a Disadvantage and may say here that these "missing" were Account of a Desperate Struggle.

The troops breakfasted early and started at about seven a. m. Within swords, but their bodies had not other about two miles of camp they encount- wise been mutilated. ered opposition, and dispositions were made to attack, writes a correspondent of the London Times. The artillery. Fifteenth Sikhs-Three men killed and escorted by the Fifteenth Sikhs, climb- three wounded; Thirty-sixth Sikhs. ed a steep hill on the right and, coming into action against groups discernible on the lower slopes of the mountain, speedily dispersed them. The Dorsets were sent to the left to make that flank secure, the Northamptons and Sappers advanced in the centre, and the Thirty-sixth Sikhs on their right. The enemy, as usual, gave way a.m., the summit of the mountain had rived later and joined Brigadier-Genable of the country beyond. So far so good. If only we could al-

ways advance and never retire! So long as we front our foes and attack them and press them, no matter what the odds, so long do they acknowledge When hauling a load it is better to our superiority and yield to the inevihave the horses draw as much as they table. But our first movement in can, making the load the maximum in retreat is the signal for them in turn weight as the horses have traveled the to become the assailants. And so it distance, whether the lead is small or was now. At two p.m., the retiredarge, and it is the time lost in trav- ment commenced. The Sappers and eling that makes hauling expensive. If the Thirty-sixth Sikhs were first sent the roads are good heavy loads can be back to a position in rear, followed later by three companies of the Northamptons. Thus five companies of this regiment were temporarily left on the crest by themselves, more than enough to hold their own against any number of Afridis, for there was

STILL PLENTY OF DAYLIGHT,

nearly always neglected, and yet an this time hardly an enemy was in sight; quarter to spare. The British output but as these companies were gradually withdrawn the tribesmen appeared as if by magic, and, pressing on their heels, delivered a hot fire at close range, causing many casualties in the rearmost company, commanded by Capt. Parkin. The men, however, soon begins to learn that it is not the rallied bravely round their officer, and with great courage and coolness kept 1975, Sydney Lupton, reasoning from the foe at bay while the wounded were another set of figures, set down the picked up and brought along. Sergt. consumption of the last pound Lennon of this company distinguished himself by his deliberate shootsteadiness in a trying situation which erica, which now has forty times as that the supports in rear were at least own stores were exhausted, figured out to this time were only ten or twelve each making thirteen trips a year, and men wounded.

The Thirty-sixth Sikhs, well posted to make up England's deficiency now, allowed the whole of the North- Huxley pointed out in a carefully amptons to pass through them, and, written article that, "wanting coal, all when they had given them time to the great towns of Lancashire and reach the foot of the hill, followed them Yorkshire would vanish like a dream, down, easily keeping the enemy at Manufactures would everywhere give arm's length and incurring no casual- place to agriculture and pasture, and ties themselves. At the base of the not ten men could live, where 10,000 Certain food, such as Limburger hill they overtook the Northamptons, are now amply supported." who, encumbered by their wounded, Richard P. Rothwell, who was the had been able to move only slowly; so mining expert in the eleventh United Capt. Haughton, commanding the Thir- States census, gives the coal producty-sixth, again took up positions to cov- tion of the United States for 1896 at er their further retreat. At this point 186,241,271 short tons, and adds that the the ground breaks up into deep stony anthracite mines of Pennsylvania are The Northamptons unfor- being rapidly worked out. length over the difficult boulder- miles. strewn bed of the stream, the head of ly and consuming no food that has foot of the hill in touch with the covering Thirty-sixth Sikhs. When Col. Haughton was assured by a report sent to him that the Northamptons were fairly started, assuming them to be in were introduced are more important. ravine, and eastward of the hill Oysters and cold game are also thor- which the guns had been in action in the morning, in order to fulfil the role the three-wheeler by his bedside, assigned to himself of safeguarding the he was disgusted. left flank of the force on THE HOMEWARD MARCH.

Shortly after seven p.m. he reached

camp with his regiment.

In the meantime a tragedy had been enacted in the centre. A body of Afridis, who had from the slopes above marked the situation, swooped down on gasped. the Northamptons entangled in the revine, and, firing from the high banks for any man, her husband rejoined. on the western side, they shot down with an affectation of hauteur. the stretcher-parties who were nobly engaged in carrying off and protecting their wounded; and though officers and men battled bravely for honor's cause yet they were not fighting on equal terms, and the desperate struggle went misrepresenting me, said his neighbor heavily against them. At this junc- indignantly. Brozer told me all about ture a company of the Thirty-sixth it.
Sikhs, under Lieut, Van Someren, not All I said to him was that you were one of those that had been with Col. one of the most honorable men and con-Haughton, but one that had previously siderate neighbors that I ever knew been detached to support the guns, re- Wonder where I can find that infersturned to their aid, and, taking the al Brozer.

entimy in flank and rear, extricated the Northamptons from their perilons plight. On reaching camp, at about half-past seven, the roll was called, and it was found that Lieut. Waddell and six men were killed. Lieut. Trent and thirty-one men wounded, and Lieut Macintire and fifteen men missing Shot Down - Mountainous Country a all killed. A search party found their Great Help to the Afridis - Thrilling | bodies the next day in the ravine where the fight occurred. They had, of course, been stripped of clothing and arms and some of them slashed with

> The further casualties incurred on the 9th were: Dorsets-Lieuts. Ingham and Mercer and six men wounded: Three men wounded.

LORD KELVIN'S PREDICTION.

No More Coal Three Hundred and Forty #1.

Years From Now. In 346 years there will not be a round of coal or a gallon of petroleum left in the whole earth, according to the state. ment made by Lord Kelvin before the Mathematical and Physical Section of the British Association at its recent meeting in Toronto. Lord Kelvin, with his unrivalled power of applying his mathematical knowledge to the solution of practical questions, has made this startling calculation very carefully.

A fair average of the growth of coal in the earth, Lord Kelvin said, was two tons for each square metre in a thouand years. Dividing the figures already obtained, would give the age of the earth since plant life began, as 20,-000,000 years. Turning to Great Britain, Lord Kelvin said that there was still available in that country 146 thousand million tons of coal, or about sixtenths of a ton per square metre of area. Judging from the present rate of consumption this supply might last 100 years or less.

Sir Henry Bessemer, the great steel manufacturer, has made some calculations about coal which will make these figures better understood. One million tons of coal would form a cube 300 feet square by 300 feet high, or they would represent a bed of coal one mile square by one foot thick. The coal mined in Great Britain in 1881 would make 555 great pyramids, or would rebuild the great wall of China, with one of coal in 1883 would form a pillar one mile high by 164 feet square

Edward Hull, a famous English geologist, has calculated that the amount of coal in Great Britain, which exists at depths at which it can be mined is EIGHTY THOUSAND MILLION TONS. W. Stapley Jevons, reasoning from these figures, calculated that the British coal supply would be exhausted in of British coal Lupton, replying gestion that Great Britain might iming, and set an excellent example of port its supply of coal from North Amhad the best effect. The result was much as the United Kingdom, after its safely reached, and the casualties up that it would take 2,100 steamships each carrying 6,000 tons of coal as cargo

tunately elected to regain camp by Lord Kelvin says that, when the marching through one of these which world's supply of coal is exhausted at led almost directly home from this the end of 346 years, mankind will only point. I say "unfortunately," because have wood left for fuel. Meanwhile, he Sound food often contains large if attacked in such a situation the best advocates the use of all the power of and bravest men must be dreadfully Niagara Falls, which he calculates at handicapped; companies and sections 4,000,000 horse-power. While this powget broken up and separated, and re- er could be distributed by electricity gular control or united action becomes over a radius of 300 miles at a pressure impossible. And something of this of 80,000 volts, with a loss of only 20 kind happened now. It was already per cent., Lord Kelvin thinks that all close on six o'clock and getting dusk. the factories which want to take ad-The camp was only a short mile dist- vantage of Niagara's power should be ant, and, slowly trailing its weary gathered within a radius of forly

UNSATISFACTORILY ANSWERED.

Five-year-old Dickey had been instructed that whenever he wanted anything he should pray for it.

He had prayed long and earnesdy for a bicycle, but his father, thinking him too young to ride one, had bought him a tricycle. When he awoke, on the morning of his birthday, and found

Doesn't the Lord know the difference between a bicycle and a tricycle? he whimpered.

TO UNCOVER.

There's a burglar in the house? she

I have never yet uncovered my head

FOOLING HIM.

Dumpley, I hear that you have been

POUNT

"Bonnie Bess and rightly end land lassies wh kirk Sabbath m so pretty and Squire Renfr

desperately in sought to make difference in r Red Pass were in the neighbo storehouses wel was a bachelor score years old nie Bessie" for "If the lassis

me," he said, ad mother, as he brown rafters pottage, a hot shining crown lassie thinks sh gain's made. I lead her to the a good, true hu silver will ma as happy as a Bessie listene

eyes, burning lips. She held and slim, in a until her gray his leave. The vehement, pass The old gran

storm until her "Well, 'tis o'e down and keep ye have your mine, We're p found it hard t but my own me I've been burd to bed many a ger. But I've my best, an' gi' you a share "But dearest "Now, lookee

rupted the old 1 finger and glow sie, "if ye're fu good fortin', tha You pack out pross the thresh Bessie was si beyond the Hig dim and far av scenes were so The autumn

the springtime with Squire Ret wife. The springtin ding day was cl evening just bef lie went to fill ! the rocky spring complished her pitcher to her s ed for the cotta feet twinkling p petticoat as she stone in crossin

pitcher hastily o her hand on her all over. "It's his ghais! cried, "and O, I

stream, when su

stifled cry and

grown boulder, e

Whatever she she had seen th sight when she I ing except the over glen, the brook s ening light, and

swaying sectral "He has come cried, glancing dare na, dare na Jamie, that I eve She drew a sill circled her throa she spoke and kir of silver which de never ha' peace if she said, "and I shall feel I am a t Jamie, after all, I

and never can." Suddenly she re stamped on every "I must give back," she said, br from her eye. "If there is no other then perhaps you' Leaving her pite back her abundant this adjuration, an

through the fallin light foot of a cha-When she reach bright glow of the the windows. She est one and presse resolute face again A minute and against the glass. quickly, stared, and

"Well, now, well meaning o' this?" across the room at window. "Bessie, happened?" Something that happened," she an him with a sort of and drawing the finger as she spoke

this back to you, "Why, child, wha "Take your ring,"