VOL. II. NO. 2.

HEADS UP.

Don't kick and whine, Just get in line With the fellows who've grit and

pluck; Don't frown and scowl, Look glum and growl, Stop prating about ill luck.

Lift up your head, Don't seem half dead. Stop wearing a wrinkled face; Give smiling hope Sufficient scope, And joys will come apace.

Out on the man Whose little span Is full of grief and gloom Always dreary, Never cheery, From trundle-bed to tomb.

Give me the chap Who, whate'er may hap, Looks up, and is cheerful still, With a smiling front. And nerve, and vim, and will.

ANOTHER JOHNNIE.

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shall never marry," said a man's voice from the depths of a huge lounge chair. "People are fond of telling me I shall change my mind, because I've got a title and a fair amount of money. That shows all they know. It makes me laugh when my people wisely tell me I shall have it one of these days, and have it badly. I've had it, old chap, as badly as I could have it to live, and I'm inoculated for all

""So that's it, is it?" murmured Graves, sympathetically.

"Yes, that's it. The only girl I ever loved," Lord Kiddersleigh went on, not looking at Graves, but staring hard up at the ceiling high above their heads, "loved another Johnnie. Now, I take it, when a Johnnie loves a girl that loves another Johnnie there's nothing to be done but clear out; so I cleared out of the old Black Horse into this regiment for no other reason than that it would bring me out here, and at least keep me from seeing the other Johnnie having it all his own way."

"Is she married yet?" "I suppose so. I really don't know, for I never heard a word about her. My people knew her, ah, yes, but they've never mentioned her in their letters, as they don't know I take any interest in her-they think I haven't had 'it," he added, with a burst of ribald laughter that all the same had a ring of wretchedness in it.

"Do you know the other man?" asked "No, I haven't the least idea who he is, and I don't feel like making any particular inquiry on the subject. But that's why I never moon about after the women, old chap; I'm off all that kind of thing."

"I never suspected it." said Graves "I've often wondered why you kept yourself as you do, but, by Jove, I never guessed at the reason."

"I daresay not. It ain't the kind of thing a Johnnie cares to talk about to everybody. I wouldn't have told you old fellow, if you hadn't happened to chum up with me as you have done, and nurse me through that last go of fever."

"Oh, that was nothing at all," Graves thrust in hurriedly.

"Nothing-nothing at all from your point of view." declared Kiddersleigh in his mildest tones. "From mine, though, it's the sort of thing one don't forget, and, by Jove, if you ever go home, just you go and tell my mother. and you'll find out whether she calls it nothing any more than I do." "Oh, I say. Stop that," said Graves

shuffling uneasily in his long chair.

spoke. Then Kiddersleigh went on. "I don't know that I'd mind India if it wasn't for the beastly climate," he said in the querulous tones of a semi-convalscent. "It's all right if it happens to suit you. Look at you, for instanceyou're as sound as a bell, and as healthy as a roach; but it don't seem to suit me, somehow, and three goes of fever take it out of one horribly." Kiddersleigh got leave next morning to go to Simla to recuperate, but in less than a month after returning to the regiment he was down again with

This was the worst attack of any, Graves took upon himself to write to Lady Kiddersleigh his exact impression of her son's state of health. He felt easier when the letter was fairly gone, and after that Kiddesleigh took a turn for the worse, and there was some serious talk of sending him home

by the very first ship.

Kiddersleigh, however, refused to listen. "No, no," he said, obstinately, "I came out to see some sport, and I've had none. This beastly fever must wear itself out in time, and I'm not going to be beaten by it. I never ailed a thing in my life till I came to India. and if a Johnnie gave in at the beginning he'd never be able to call his soul his own again as long as he lived. Give me stronger doses of quinine, doctor; you medicos are so afraid of your nos-

The doctor shook his head and left them. "Graves," he said, a little later in the day, "that young fellow will croak one of these days if we don't for his food." look out. Can't you persuade him into listening to reason?"

"You mean he ought to go home?" "I do. Can you do nothing?"

"I'll try," said Graves. And Graves did try. He opened the conversation by speaking of Kidderswhich the invalid caught instantly.

"I ain't going home," said he. "Look here, old chap," said Graves. "Don't you think you're paying that girl too high a compliment altogether? No woman in the world is worth a man's life, and that's what you're giv-

ing in this case." "Do you say I shall die?"

"Yes, if you stop here." For the life of him Graves could not keep his voice quite steady, and afterwards he admited that he had never felt so helpless or so lonely in his life as he did at this

"Well, then, I'd just as soon," said the invalid, tenacious of his one idea. Graves jumped up and went out of mise of Henry George, who was like the room. For the life of him he could not have spoken at that moment. He went out on the veranda and winked the scalding tears back from his eyes, and swore a little under his breath, and then he took a resolve. It was that he would write again to Lady Kiddersleigh. And so, that same evening, he did, laying bare his whole idea to her, and begging her to use her best to her, and begging her to use her best to her, and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and begging her to use her best to her and the bodily functions are seemingly at rest is at first thought somewhat difficult to explain. When, however, the arteries of the baby who has not learned to walk yet.

It is placed in a wicker-woven arrangement which looks like a basket to the begging her to use her best to the proposition should occur at a time when all the bodily functions are seemingly at rest is at first thought somewhat difficult to explain. When, however, the arteries of the brain become brittle by age the subject to care for while she does the housework or helps her huse band in his little children to be cared for while she does the housework or helps her huse band in his little shop. The baby is left to care for itself and does so very well—that is, the baby who has not learned to walk yet.

It is placed in a wicker-woven arrangement which looks like a basket to the proposition of the her huse to the beautiful to explain the proposition of the her huse to the proposition of the proposition of the proposition of the her huse to the proposition of the her huse to the proposition of the her huse the her huse the head of the her huse the went out on the veranda and winked to her, and begging her to use her best

ne wrote in conclusion, "but I am sure the substance of the brain. married by this time, but I think if you until the final break occurs. the inevitable."

a long breath of intense relief, know- ald. ing that whether his friend lived or died he had done the right thing, and could never be reproached with having unduly kept his people in the dark.

eager eyes. Yes; there she was, a tall, slight woman; nay, very young looking to be the mother of a big fellow like smart-looking maid and a courier. lersleigh knew him by instinct and came forward, too. "You are Mr. Graves?" she said. "I can never, never thank you enough. How is he?"

my niece here will do more than any of nance. us. Mr. Graves, this is Tita about whom you wrote to me, otherwise Miss Vallence."

Miss Vallence blushed a fine scarlet color as she returned Graves' bow. "You have come none too soon," he carriage now, Lady Kiddersleigh?"

She put her hand upon his arm in "Eve had a journey and a half, Mr. Graves," she whispered rapidly. 'There's been a mistake-she adores Kiddersleigh, always has done. She has almost broken her heart - Oh, yes," with a quick change of tone, "it will be nice to be settled down for a few days. It's a horrid iourney."

They only uttered commonplaces as Kiddersleigh and Graves shared. "I'd better go and prepare him," said

Graves, as he helped them to alight. He found Kiddersleigh lying in his ing. He was not smoking, for he was too ill to care for his pipe any longer by stepping off the track. For a few minutes neither of them Graves' heart smote him as he noted the sharp outlines of temple and wrist. "Old chap," he said in a voice that try as he would, he could not make an ordinary one, "don't be startled. Your mother's come to see you."

> Am I--" want you to croak without making an apply the Holmes principles in all cases effort to straighten things out a bit. possible. She's come, too. There's been a big mistake somewhere."

"My mother! Did you send for

was down on her knees beside the line. and long before he was free of it long chair. "Keddie! Keddie!" she He found that the brass hasps secur-

"But the other Johnnie?" he asked. eyes. 'I don't know what you mean, kept it.

you."

Burdette's Idea of Hospitality. Robert Burdette once said: "I do no go to my friend's house for the meal he is to give me. I can get a very good dinner at a hotel for 50 cents or half Tuskogee Institute is to be established and to have an hour in his company; of Cape May by Rev. J. W. Fishburn

Wasted Effort.

strive to set your brother a good exam-

"Aw, what for?" retorted Tommy:

DEATH'S VISITS IN SLEEP.

Apoplexy Frequently Attacks Its Vic-The frequent occurrence of apoplexy during sleep was illustrated in the case of Col. Albert D. Shaw. He had made a patriotic speech during the evening and had retired in apparently good health. In his instance there was a combination of causes to bring about the result-a banquet, mental excitement, probable indigestion and a coincident lowering of vital tone.

In some respects the circumstances were similar to those attending the dewise stricken after forced efforts on the platform. Why the accident in question should

often enough to precipitate a rupture turned upside down, and is just high efforts to persuade her son to go home.
"I am breaking a sacred confidence,"

of those vessels and cause the escape of a clot either upon the surface or into

it is the only thing to do, the only way | High mental tension, being always in which I can serve him. Dear Lady associated with congestion, is in itself Kiddersleigh, the bottom of it all is an active predisposing cause of aposome girl—I don't know her name, but plexy. This condition is apt to conhe told me she was in love with an- tinue during a more or less troubled other man, and he came out here to be sleep, and with an overtired nervous out of the way. He never told me her system there is less resistance to overname, but last night, when he was thor- stretching of the cerebral arteries than oughly off his head-which he is most during the waking hours. Nature, innights-he kept calling 'Tita-Tita.' stead of rebounding, simply succumbs. From what he told me she must be The fullness of the vessels increase

were to send out the papers with the Generally the effusion of blood accounts of it he would feel that it sufficiently large to be followed by inwas really over, and resign himself to stantaneous death, causing one sleep to pass quietly into the other. As evi-It was exactly three weeks after dence of this peaceful ending, it is Graves had planned his second epistle often noticed that the patients are to Lady Kiddersleigh that he received found as if in natural slumber, comtelegram from home. "Coming at fortably lying on the side, with bed the ground. He is then set out in the once, Julia Kiddersleigh," it said, and clothes undisturbed and with counte- street to take care of himself. He Graves shoved it into his pocket with nances perfectly calm.-New York Her- cannot turn over, so he at least re-

RECENT JUDICIAL DECISIONS.

A faction of a political party which At last he went to meet the train which would bring her, and stood there which would bring her, and stood there with a distinct political party is, in Weaver vs. Toney (Ky.), 50 L. R. A. 105, denied the right to have inspectors at an elec-

Kiddersleigh, and with her was a very gard to larceny, stating a suspicion, town. with a reason therefor, that a certain Graves went forward, Lady Kid- person is a thief, is held in Shinglemeyer vs. Wright (Mich.), 50 L. R. A. 129, to be privileged.

Repeal of an ordinance requiring a hank you enough. How is he?"

license tax for carrying on the business of real estate agents is held, in Denhave. Chinese boys and girls, for intew days," he replied. "I'm so glad ning vs. Yount (Kan.), 50 L. R. A. 103, stance, have their games that they play don't let us touch the melodeon since you've come, Lady Kiddersleigh. You'll not to operate retrospectively so as to with just as much enthusiasm as do do him more good than anyone."

Lady Kiddersleigh smiled. 'I don't which was originally invalid because their American cousins. One of them is which was originally invalid because the hawk catching young chickens." The children stand one behind the oth-

Nonresident holder of stock in a corsaid, gravely. "Shall I take you to the to satisfy the statutory liability of form themselves into a ring, with one ized from the stockholders. '

yards ahead of the train which struck an inch or more in diameter, one of hey drove toward the bungalow which A. 684, not to make the railroad com- down, and one boy tells the other to running at a prohibited speed and er. If he shoves it so as to hit the long chair, staring blankly at the ceil- where up to the moment he was struck two kicks. If he simply goes in the po-

Lessons from Sherlock Holmes. The methods used by Sherlock Holmes, the great fictional detective, have so impressed the authorities of Massillon, Ohio, that they have provided the police with books telling of the greatest achievements of Holmes. "Old chap," said Graves, "I don't The officers are under instructions to

Accordingly, when it was reported that a trunk had been broken open and But the girl Tita waited no longer, \$85 stolen at John Stevenson's boardthere was a rush of light feet, a sob ling-house the other day, Officer Seaman and a choking kind of laugh, and she proceeded to investigate along Holmes'

cried. "I've almost broken my heart!" ing the trunk lid had been severed with a sharp instrument. None was in the "There wasn't another Johnnie," she vicinity. The landlord was asked if cried, the tears running down her face he had an ax. He produced one from a and almost drowning the smiles in her coalhouse, where he said he always

Keddie. There never was any one but | There were small particles of brass on the blade and it just fitted the cut "Tita-my Tita!" he murmured; and in the trunk. The officers argued that then he quietly fainted away. Then, if a robber had committed the crime when they had brought him 'round he would not have lugged away an ax. again, he said with a weak chuckle: Therefore they decided it must have "Don't let Tita go. I want my revenge been the landlord. When they arreston the other Johnnie."—St. Louis Star. ed him he was so amazed at their line of reasoning that he admitted his guilt. He is now in fail.-Pittsburg Post.

Negro Colony at Cape May. A rival to Booker T. Washington's

a dollar. I go to my friend's to see him on 1,400 acres of land ten miles north I go for a certain quality of welcome and his associates, who have assumed that comes from his personality, not the name of the Afro-American Equitable Association. They bought the land from State Senator Robert E. Hand and have raised all but \$400 of the first "Tommy," exclaimed mamma, "I'm nistallment of the \$14,000 which they surprised at you. You should always will pay for it. The association also has in hand over \$3,000 for beginning the construction of an industrial school and manufacturing plant. Farms will "he's too small a kid to know anything be allotted to colonists and only negroes about 'rithmetic."-Philadelphia Press. will be allowed to do any work.



Children in Far-Off Spain. In the Spanish city of Seville there are no kindergartens or other places where the busy mother can leave her little children to be cared for while she



BABY AND ITS BASKET.

mains in an upright position. The basket is very light, so he often works his way up the street and far away from home. He will get into the middlie of the street, so that the donkeys who take the places of horses and wagons there must go around him. This they always do, and it looks queer to see a long line of donkeys going out | in the Seattle Times. Information given to detectives in rethe narrow streets of the old Spanish of their way to go around a baby in

Chinese Children's Games. It is interesting while American boys and girls are playing their games and enjoying their sports to read of the enthem from the hawk. The hawk, the child who, as we say in most games is poration is held, in Howarth vs. Lom- "it," comes to catch the chickens, but bard (Mass.) 49 L. R. A. 301, to be the line swings back and forth, and the bound by the action of the court in approtector keeps between the brood and lips quivered through the silence that or in drawing a load upon soft ground to the court in approtector keeps between the brood and lips quivered through the silence that or in drawing a load upon soft ground to the court in approtector keeps between the brood and lips quivered through the silence that pointing a receiver for the company the hawk. Another game is "pointing and determining the amount necessary at the moon or stars." The children stockholders for its debts, and liable of their number blindfolded in the cento an action in his own State by a foreign receiver to whom the statute has ers singing. The ring stops and the given legal title to the funds to be real-boy in the center points. The person toward whom he points must take his

Killing of a person on a railroad track place blindfolded in the center. In open daylight on a straight piece of Another game is "kicking the marroad, where he could be seen for 150 ble." The players have two marbles him, is held, in Neal vs. Carolina Cen- which is put upon the ground and tral Railway Company (N. C.), 49 L. R. shoved with the foot. The other is put forted. pany liable, although the train was put it a certain direction from the othwithout ringing its bell, as required by other and still go in the desired direcordinance, or keeping a proper lookout, tion he wins double and is entitled to he could have prevented the accident sition indicated he wins and is entitled to one kick.

The White House.

Why is the President's mansion at

Washington, D. C., called the White House? It has been so called for of using any other name, although Executive Mansion" is the official ceminder of the second war with England. August 24, 1814, the British army captured Washington and burned the public buildings, the President's mansion being among those to suffer. It was damaged to some extent, and to hide the fire stains was painted white, and white it has been painted every year or two since. The home of Washington's mother was called White House, and this may have suggested the name, but the fact that the mansion was so assiduously painted white after the war of 1812 doubless brought the term into popular use.

Is kept by World, the millionaire. From errand boy to president, His clerks are swarming everywhere

Yet every hour (they say it's true),

The World himself has lived to learn The worth of struggle here and the And in his wise way can discern The boy who wills to do his share From door boy to proprietor, He knows what each one's fitted for

The boy is blind who passes by His dazzling windows any day, And cannot read, with half an eye, "Boy wanted right away." But he's the boy that's bound to win, Who hastens to inquire within. -Normal Instructor.

Why Girls Cannot Throw Straight, The general idea as to why girls cannot throw as well as boys is that they have not acquired the knack by practice as their brothers have. Another explanation is given by a medical man, which tends to show that girls could

never learn the knack, however much hey tried.

When a boy throws a stone rooks his elbow and reaches back with is forearm, and in the art of throwing e works every joint from shoulder to wrist. The girl throws with her whole arm rigid, whereas the boy's arm is re

The reason of this difference is one of anatomy; the feminine collarbone is onger and is set lower than in the case of a male. The long, crooked, awkward bone interferes with the free use of the arm. This is the reason that girls cannot throw well.

"Cinderella" the First. Under Article 68 teachers may be appointed to elementary schools on satisfying the board that they have attained the age of blooming eighteen, and that they have been vaccinated, says the London Express. The results are often humorous to the onlooker, but unfortunate for the children. An "Article 68 teacher" stood up the other day and announced: "Now we will place."-Little Chronicle.

Raising sunflowers is a paying enterwith big baskets sell the saited product of the big sunflower. A good crop of of the plant. In this manner the roots sunflowers as it stands in the field is worth \$25 an acre.

"AULD LANG SYNE."

The Old Fong Broke the Crust on Grief-Hardene | Heart.

Outin a Western forest, where a little log cabin had stolen a bit of ground for itself in the very shadow of the forest trees, a lady traveler found herself be nighted. The dwellers in the cabin were simple, kind-hearted people, who had lived so long in their primitive sur roundings that they missed neither the world nor its conveniences. Everything looked as if they were contented and happy, but the visitor, by what seemed like an accident, learned that one hear was sad. Ella Higginson tells the story

After supper the traveler, who had observed a little old-fashioned melodeon in one corner of the room, went over to the instrument and was about to open it. The action was arrested by the movement of a young girl, who came hurriedly to the stranger, and with a look of fear on her face whis-

"Oh, you mustn't play! Grandma grandpa died. She says music is only

for happy folks." For a minute the lady hesitated; then began to sing in a low, sweet voice the | mal in all cases, and we see many farm words of "Auld Lang Syne."

stood beside the visitor, awed and easily. Then the heavy horses are frightened, but the old white-haired driven over our hilly roads often at a and listened.

Presently, as the full meaning of the simple, tender words stole in upon the requires more food to sustain a 1,600 narrow, grief-hardened mind, her hands began to tremble, her head sank upon her breast, and tears fell from her eyes. When the song was finished, she its sorrow no longer refuses to be com-

The Beefsteak Was Good.

It may be a question whether Thackeray cared very much for the pleasures of the table, but at least he wrote as if he did. Take the following reminiscence from one of his essays, and judge whether it could have been more lovingly composed if the subject had been a romantic one, and not merely-a beefsteak. He says:

After the soup we had what I do not hesitate to call the very best beefsteak years and years, and now no one thinks I ever ate in my life. By the shade of Heliogabalus! As I write about it now a week after I have eaten it, the old. The name White House is a rich, sweet, piquant, julcy taste comes smacking on my lips again; and I feel something of the exquisite sensation then had. I am shamed of the delight which the eating of that piece of meat

caused me. G. and I had quareleld about the soup; but when we began on the steak we looked at each other and loved each other. We did not speak; our hearts were too full for that. But we took a bit, laid down our forks, looked at each other and understood each other. There were no two individuals on this wide earth, no two lovers billing in the shade, no mother clasping her baby te her heart more supremely happy than

As you may fancy, we did not leave the ends as they stand upright and four single morsel of the steak; but when inches below the shoulders. Cut the it was done we put bits of bread into sides (b b) and nall in position; next the silver dish, and wistfully sopped up make a V-shaped trough as long as the the gravy. I suppose I shall never in this

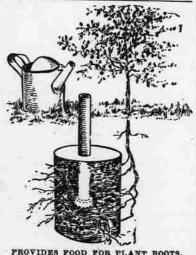
His Length of Service. Visitor to Country Town (who ha been shown over the church)—And how long has your present vicar been here Sexton-Mr. Mole, sir, has been the incumbrance here, sir, for nigh on forty vears, sir!-London Punch

Not Play to Him. Briggs (taking up a book)-Ah! have Dryad's play here. Griggs-What was his play has been my work. I have tried to read it .-Boston Transcript.

A woman is very apt to have misgly ings about a man who is addicted to the free and unlimited coinage of compli-



New Fertilizing Apparatus Among all the numerous devices and schemes to induce plants to grow the idea which is illustrated below is probably a novelty, and it is not unlikely that it will serve its purpose to some advantage in the forcing of shrubbery, plants, etc. The inventor is Gardner M. Sherman, of Springfield, Mass., and he claims that the arrangement is not only of great utility and value in accelerating the growth of plants by giving them with the utmost directness the most suitable fertilizing ingredients which they are known to require, but have our history lesson. We will varying the constituents employed, with take the Queens of England first, be- a view to the observation and compariginning with Cinderella. Find your son of the results. The device is a hollow, porous receptacle, with a vertical tube at the top. The device is buried when the plant is set out, leaving the prise in Russia. The seeds are salted end of the tube exposed above the surand regarded a fascinating edible. At street crossings in all the provinces of Russia there are stands where peddlers in through the tube, being absorbed through the porous vessel by the roots

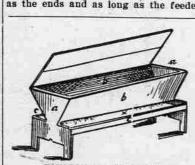


PROVIDES FOOD FOR PLANT ROOTS. and eventually the whole shrub are stimulated and made to mature rapidly. It would seem that even an application of warm water at intervals would be of advantage, in that it would warm the ground and moisten it at the same time,

which could not help but stimulate plant growth. Lighter Horses Petter. Farmers who have watched the ease with which the large draft horses hanvith a pitying glance at the old, bent | die heavy loads on good roads or city er, having the largest boy to protect figure by the fireplace, she opened the pavements have been led to think that melodeon, and touching the yellow keys a heavy horse must be the better ani-

teams that are far inferior in the Each word as it dropped from her amount of work they can do in plowing had fallen upon the room. The child than a much lighter team would do woman by the fire only leaned forward | rate of speed that causes them to pound the earth so that the legs give out, and they are quickly lame. It certainly pound horse than one weighing from 1,000 to 1,200 pounds, and when not constantly employed drawing heavy loads the amount of work done by the was sobbing like a weary child that in heavy horses does not compensate for the extra cost of maintaining them. As farmers will have next spring to buy horses or many will we advise them to turn their attention to the smaller horses from Canada if they can be found rather than to the Percherons and Shire horses that have been so popular lately. They will cost less prices, cost less to keep, do about as much work and endure much longer.-Ex-

change. Felf- eeter for Poultry. This poultry self-feeder is simple in construction and may be of any size desired, but for thirty or forty hens it should be about 1 foot wide, 3 feet long and 11/2 feet high. The ends (a a) should be cut as shown, then a board as wide as the ends and as long as the feeder



FOULTRY SELF-FEEDER. should be nailed horizontally between feeder and invert between the lower world taste anything so good edges of b b to keep the food from running out too much at once. Nail-on strips (c c), which should be four inches wide, and put on a cover with hinges.

> Value of Roots for Feeding. Professor Henry in "Foods and Feeding," the artichoke is the most valuable root for feeding, as while it has but twenty pounds of dry matter in one hundred pounds, while the potato has more than twenty-one pounds, it has more than double the amount of protein that the potato has, and its feeding value is reckoned at \$2.44 per ton, while potatoes are but \$1.66, and are not equal to parsnips, which are \$1.82. Next | ber of horses to stand tethered that comes the sugar beet at \$1.42, the com- way and never had one get tangled mon beet at \$1.38, rutabagas at \$1.22, or hurt. After they get used to beflat turnips at \$1.16, mangel-wurtzels ing picketed out at \$1.10, and carrots at the bottom of by head or neck.

the list at \$1.06. Never having grown artichokes we have not known much about their value for feeding. All the others we have used, and our experience would rank them about as in the analysis, unless it were to change places with flat turnips and mangelwurtzels.-American Cultivator.

Education in Farming. Horace Greeley said that he left the farm because there were no books or papers treating on the laws on which the science of agriculture was based, or something to about that effect. We have no doubt that he often thought he would have stayed on the farm if he could have had some of the knowledge about farming that used to have a place in the Tribune in after years, but we are not so sure about it. Even in those days there was more theoretical teaching of farming than of any practical knowledge that would reduce agriculture to an exact science, and we think if he had been on the farm and tried some of the methods advocated in the Tribune his language might have been as emphatic as any that he used in political campaigns. But since that date agricultural colleges and experiment stations have done much to educate the farmers and the farmers' sons, theories have been practically tested, methods have been so well studied that, under certain conditions, the results are almost as certain as mathematical demonstrations, machines have been invented to do much of the hard labor, and plants or the farm animals can be fed as scientifically as the machinery, and is sure to produce certain effect from certain expenditure of power.-Exchange.

Butter Making. If the war between milk producers and contractors drives some of those who used to make butter a quarter of century ago back to trying it again, many of them will find that they cannot make butter of the same quality as they have been buying since they began to sell their milk, or of such flavor as they think they used to make. Their taste has been educated up to a standard that but few could reach then, and most of those only in June and September. But we think this trouble is likely to be the cause of the starting of more co-operative creameries, cheese factories, and perhaps condensing factories the coming season. And we fear there are not enough graduates from our dairy schools to take charge of them all. When they can be found they should be given good wages .-American Cultivator.

Sugar Beet Pulp for Cows. At the Watsonville (Cal.) factory sugar beet pulp sells all the way from 25 to 50 cents per ton. As it can be held a long time in the silo and is fed to best advantage when old, it is available the entire year. According to notes collected by R. A. Pearson, of the dairy division at Washington, published in a recent bulletin, the fresh pulp is piled or placed in a silo. This silo is very crude. It also costs very little. The pulp is very soft when first put in and generally settles considerably. Of course the top layers decay, and after a time the entire mass is covered with a protecting laver three to six Inches thick. In a few months the individual pieces of beets, originally two or three inches long and quite slender, are broken down, and the material reminds one of cold mush,

when cured. Smut in Grain.

The treatment of seed grain by dipping for about ten minutes in a solution of one pint of formalin in twentyfive gallons of water, to prevent smut, has proved so effectual and so chean that no farmer has an excuse for falling to try it. The above amount should be enough to treat about fifteen bushels of seed, or more if after a bushel has been soaked it is allowed to drip into another barrel or tub while the next lot is being soaked. The formalin is not dangerous or disagreeable to handle, though not safe for animals to drink. The same treatment is advised by potatoes to prevent the scab.

grayish brown in color. Three tons of

the fresh pulp make about one ton

Corn in Po-k. One of the great problems in profitably carrying on the hog industry is to secure the large gains from a bushel of corn that at one time it was thought impossible, but is now being proved almost daily. While ordinary good feeding is eight to ten pounds gain, superior feeding brings fifteen pounds. find the report recently made by C. G. Neff, of Oblo, that by careful feeding he made an average on a bunch of 500 hogs of fifteen pounds eight ounces gain for a bushel of corn, and after the second period a gain of fifteen and three-quarter pounds per bushel was made.-American Swineherd.

Preserving Butter.

When husking corn save a number of the soft inner husks. Have your butter thoroughly washed free from all milk, worked and salted to taste. Scald and cool the busks. Make the butter in long rolls the size of a fat ear of corn, inclose with the husks. tie tightly at each end and drop in brine strong enough to bear an egg. The brine will not penetrate the butter, and when taken out, it will be as sweet and well flavored as fresh butter, and cut in balf prettily fluted on

How to Tether a Horse, Fasten the rope to ankle of front foot, and horse will never get hind feet caught in rope, or otherwise hurt himself. A wide strap to buckle about ankle is best, as it will not rub or chafe skin. Have broken quite a numing picketed out they may be fastened