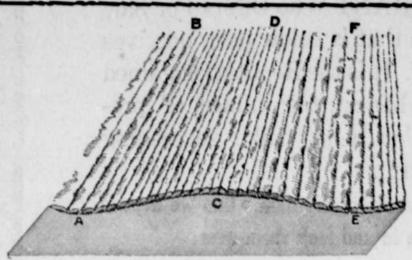
PRACTICAL SUGGESTIONS ABOUT PLOWING



Plowing in Relation to Drainage.

(By O. M. OLSON.) The depth at which land should be plowed depends much upon the season of the year, the kind of soil and the physical condition of the subsoil. Fall plowing, except for fall-grown grain, should invariably be deeper than spring plowing, as there is more time for it to become sufficiently setis plowed quite deeply, and the climatic conditions do not thoroughly settle the furrows, it should be thoroughly worked before it is planted.

Heavy soils need to be plowed deeper than the lighter types of soils. Such soils usually have quite compact subsoils, and they are benefited by being brought to the surface. It is also a benefit to heavy soils to bury the vegetable matter at a good depth, as this will assist in keeping the subsoil from becoming too compact.

Lighter soils are very much the opposite. Their subsoils are usually not too compact, and it is better to have the vegetable matter mixed with the surface soil. Deep plowing of such soils has a tendency to make them too loose, and care should be taken to thoroughly compact them before they are planted to crops.

Plowing land continuously at the

to form a hard, compact layer in the subsoil at that depth. This is an undesirable condition, and can usually be avoided by varying the depth slightly from year to year. New land, when first brought under the plow. should not be plowed too deeply. While it may be desirable to ultimately have a furrow six or seven inches tled and compacted. Whenever land in depth, it should be brought about gradually, by plowing a half-inch or so deeper every year.

A method of draining fields which has proved satisfactory and inexpensive is .*dging the land while plow-

The plow is started in the middle where two furrows are plowed against each other. By turning the horses to the right when making the turns at C and D, the dead furrows will be located at A and B and E and F. By continuing this system a series of years, the ditches are made deeper year by year. No ridge is formed on the sides of the ditch. By commencing to plow in this way, and by varying the back furrows one year a little to the right of C and D, and another year a little to the left, the dead furrows will be made broad rather than deep, making the fields gently undu-

"Good, mon Capitaine," said the ordonnance, and whistled to the dog. late instead of being cut up by deep Pitchoune sprang toward his master same depth every time has a tendency ditches and narrow high ridges. with a short sharp bark. What he understood would be hard to say, but all that he wanted to do was to remain

with Sabron. Sabron bent down and stroked him. "Go, my friend, with Brunet. Go, mon vieux, go," he commanded sternplete for a dairyman's purpose un- ly, and the little dog, trained to less it includes a silo with capacity to obedience as a soldier's dog should be. store sufficient silage for the herd. trotted reluctantly at the heels of the In the case of the round barn, the ordonnance, and the soldier threw his

went away.

ing over her hand.

to leave him here.'

ly waiting at attention.

CHAPTER VIII.

HIS LOVE STORY

ILLUSTRATIONS OF RAY WALTERS

magnetically drawn by her thoughts,

into a song which she played softly

through. Pitchoune heard and turned

her. He knew that tune. Neither

there was no doubt about its being fit

for soldiers. He had heard his master

sing it, hum it, many times. It had

soothed his nerves when he was a sick

puppy and it went with many things

of the intimate life with his master.

He remembered it when he had dozed

by the fire and dreamed of chasing

cats and barking at Brunet and being

a faithful dog all around; he heard

again a beloved voice hum it to him.

Pitchoune whined and softly jumped

down from his seat. He put his fore-

paws on Miss Redmond's lap. She

"That is the first time I have seen

Indeed Pitchoune did go to the door

"I think you might trust him out. I

Miss Redmond opened the door and

think he is tamed," said the Marquise

d'Esclignac. "He is a real little sav-

Pitchoune shot out. She watched him

tear like mad across the terrace, and

scuttle into the woods, as she thought,

after a rabbit. He was the color of

the fallen leaves and she lost sight

of him in the brown and golden brush.

CHAPTER IX.

The Fortunes of War.

layed on account of a strike at the

dockyards of Marseilles. He left

Tarascon one lovely day toward the

end of January and the old town with

its sweetness and its sorrow, fell be-

hind, as he rolled away to brighter

suns. A friend from Paris took him to

the port in his motor and there Sabron

waited some forty-eight hours before

he set sail. His boat lay out on the

azure water, the brown rocks of the

coast behind it. There was not a

breeze to stir as he took the tug which

was to convey him. He was inclined to dip his fingers in the indigo ocean,

sure that he would find them blue

He climbed up the ladder alongside of

the vessel, was welcomed by the cap-

tain, who knew him, and turned to go

below, for he had been suffering from

an attack of fever which now and then

laid hold of him, ever since his cam-

Therefore, as he went into his cabin,

which he did not leave until the steam-

er touched Algiers, he failed to see

to see a sailor climb to the deck with

"This, mon commandant," said the

sailor to the captain, "is the pluckiest

He dropped a small terrier on the

deck, who proceeded to shake himself

vigorously and bark with apparent de-

the quay than this little beggar sprang

from the pier and began to swim after

us. He was so funny that we let him

swim for a bit and then we hauled him

in. It is evidently a mascot, mon com-

mandant, evidently a sailor dog who

The captain looked with interest at

Pitchoune, who engaged himself in

making his toilet and biting after a

flea or two which had not been

"We sailors," said the man saluting,

Take him down then," his superior

would like to keep him for luck, mon

officer ordered, "and don't let him up

It was - rough voyage. Sabron

giers, the white city, shone upon them

on the morning of the third day and

Sabron tried to take a more cheerful

He was a soldierly figure and a hand-

some one as he walked down the gang-

plank to the shore to be welcomed by

fellow officers who were eager to see

him, and presently was lost in the lit-

tle crowd that streamed away from

view of a soldier's life and fortunes.

"No sooner had we pushed out from

that it wriggled and w s alive.

little beast I ever saw."

has run away to sea."

light.

drowned.

commandant."

among the passengers."

paign in Morocco.

Sabron's departure had been de-

licked her hand.

and waited appealingly.

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SYNOPSIS.

Le Comte de Sabron, captain of French cavalry, takes to his quarters to raise by hand a motherless Irish terrier pup, and names it Pitchoune. He dines with the Marquise d'Esclignae and meets Miss Julia Redmond, American helress, who sings for him an English ballad that lingers in his memory. Trying to save Pitchoune's life, he declines a second invitation to dinner because of a "very sick friend." No more invitations come from the Chateau d'Esclignae. Pitchoune, though lame from his accident, thrives and is devoted to his master. Sabron and Pitchoune meet the Marquise and Miss Redmond and after the ctory of Pitchoune is told Sabron is forgiven and invited to dinner again. Sabron is ordered to Algiers, but is not allowed to take servants or dogs. He is invited to a musicale at the Chateau, where Miss Redmond, hearing that Sabron cannot take Pitchoune with him, offers to take care of the dog turing his master's absence.

CHAPTER VII-Continued.

Duc de Tremont." And Sabron bowed

to both the ladies, to the duke, and

This was the picture he might add

to his collection: the older woman in

her vivid dress, Julia in her simpler

gown, and the titled Frenchman bow-

race Brunet was there with his horse

and Pitchoune was there as well, stiff-

man, "will you take Pitchoune around

to the servants' quarters and give him

to Miss Redmond's maid? I am going

When he went out to the front ter-

Brunet," said the officer to his

"My dear Julia, my godson, the

Homesick.

Pitchoune was a soldier's dog, born in a stable, of a mother who had been dear to the canteen. Michette had been une vraie vivandiere, a real daughter of the regiment.

Pitchoune was a worthy son. He fored the drums and trumpets. He adored the fife. He adored the drills which he was accustomed to watch from a respectable distance. He liked Brunet, and the word had not yet been discovered which would express how he felt toward Monsieur le Capitaine. his master. His muscular little form expressed it in every fiber. His brown eyes looked it until their pathos might

have melted a heart of iron. There was nothing picturesque to Pitchoune in the Chateau d'Esclignac or in the charming room to which he was brought. The little dog took a flying tour around it, over sofas and chairs, landing on the window-seat, he crouched. He was not where wicked, but he was perfectly miser able, and the lovely wiles of Julia Redmond and her endearments left him unmoved. He refused meat and drink, was indifferent to the views from the window, to the beautiful view of King TAKE CARE OF THE MANURE Rene's castle, to the tantalizing cat sunning herself against the wall. He flew about like mad, leaving destruction in his wake, tugged at the leash when they took him out for exercise. In short, Pitchoune was a homesick, lovesick little dog, and thereby ennew mistress. She tied a ribbon around his neck, which he promptly chewed off. She tried to feed him should be so arranged that stock may with her own fair hands; he held his head high, looked bored and grew thin

> "I think Captain de Sabron's little passed his time saying good-by to France and trying to keep his mind away from the Chateau d'Esclignac, which persisted in haunting his uneasy

him tied up until he is accustomed to balanced fertilizer for ordinary farm the place. It won't hurt him to fast; crops; it is relatively high in nitrogen he will eat when he is hungry. I have and potash and correspondingly low in a note from Robert. He has gone to Monte Carlo."

"Ah!" breathed Miss Redmond in-

She slowly went over to her plano and played a few measures of music that were a torture to Pitchoune, who found these ladylike performances in the window as was his habit, looking

watching, yearning. "Vous avez tort, ma chere," said her

where velvets and scarfs were being a sold at double their worth under the light of a flaming yellow lamp. As he stood so, his back to the cafe where a number of the ship's crew were drinking, he heard a short sharp sound that MARIE VAN VORST had a sweet familiarity about it and with surprise. He could not believe his ears. He heard the bark again and then he was sprung upon by a little body that ran out from between the legs of a sailor who sat drinking his coffee and liquor.

"Gracious heavens!" exclaimed Sabron, thinking that he must be the viotim of a hashish dream. "Pitchoune!"

The dog fawned on him and whined, their daily functions. A trial of crouched at his feet whining-like a child. Sabron bent and fondled him. HOSTETTER'S his beautiful head and his soft eyes to dog imperatively, but Pitchoune would have died at his master's feet rather drums nor trumpets had played it, but than return. If his throat could have uttered words he would have spoken, but his eyes spoke. They looked as though they were tearful.

"Pitchoune, mon vieux! No, it can't be Pitchoune. But it is Pitchoune!' And Sabron took him up in his arms The dog tried to lick his face.

"Voyons," said the officer to the ma rine, who came rolling over to them, where did you get this dog?"

The young man's voice was imperative and he fixed stern eyes on the sailor, who pulled his forelock and explained. "He was following me," said Sabron,

stopped and caressed him, and he not without a slight catch in his voice. The body of Pitchoune quivered under that dog show a spark of human his arm. "He is my dog. I think his gratitude, Julia. He is probably begmanner proves it. If you have grown ging you to open the door and let him fond of him I am serry for you, but I think you will have to give him up."

Sabron put his hand in his pocket and turned a little away to be free of the native crowd that, chattering and grinning, amused and curious and



eager to participate in any distribution of coin, was gathering around him. He found two gold pieces which he put into the hand of the sailor.

the baggage tender pull up and failed "Thank you for taking care of him. a wet bedraggled thing in his hand I am at the Royal Hotel." He nodded, and with Pitchoune under his arm that looked like an old fur cap except pushed his way through the crowd and

out of the bazaar. He could not interview the dog himself, although he listened, amused, to Pitchoune's own manner of speech. He spent the latter part of the evening composing a letter to the minister of war, and although it was short, it must have possessed certain evident and telling qualities, for before he left Al-

glers proper for the desert, Sabron received a telegram much to the point: You may keep your dog. I congratulate ou on such a faithful companion. (TO BE CONTINUED.)

Gauge for Measuring Sootfall.

The Pittsburgher who resents the timeworn variations of the soft coal smoke gibes now has his chance to prove that they are unjustified, or remain forever silent. By a new invention it is at present possible to measure the sootfall of any city as accurately as its rain or snowfall may be measured. Already this soot gauge, tried out in England, has proved what the tourist long suspected, that London. with all its yellow fog, has far purer air than the North of England factory cities of Birmingham, Manchester and the like. Not only have Pittsburgh and other slandered American cities the opportunity to whiten their sooted reputations, but the manufacturer, too. may now establish accurately the exact proportion of his contribution to the civic soot; for the new device judges the quality as well as the amount of sootfall, and is quite capable

Digest. The Boy Who Dreams.

of distinguishing between the factory,

furnace and kitchen range.-Literary

It is a good thing for the farmer boy to have an imagination, says the Prairie Farmer. It is a good thing for him to "dream dreams and see visions." It takes a dreamer to see the transformation that intelligent effort will bring to pass on the old place. It takes a dreamer to see how much more desirable that place will be in ten years than a job in a dry goods store.-Emporia Gazette.

To Remove Paint. Equal parts of ammonia and turpen tine will take paint out of clothing, no matter how hard or dry it is. Saturate spots two or three times, then

Real Source of Health

is the Stomach, but the whose individuality made him start most reliable barometer of your physical condition is the appetite. If it is poor, you can look for an overworked and overloaded condition of the Stomach, Liver and Bowels, which prevent them from properly performing

Stomach Bitters

will help Nature restore normal strength and regularity throughout the entire system and thus help you maintain health. Try a bottle today.



Happy or Brave.

Made By

ovi Strauss & Co., San Francisco

When you cannot be happy, you an be brave. There are things nobody can enjoy especially, aches, pains, disappointments, unkindnesses, and things of that sort. Nobody expects that you boys and girls can be just as happy over your troubles as you are over your blessings. But that does not excuse you for fretting and whimpering, just as soon as things go wrong. If you cannot be happy, you can be brave.

YOUR OWN DRUGGIST WILL TELL YOU Try Murine Eye Remedy for Red, Weak, Water; Eyes and Granulated Eyelida; No Smarting wy mail Free. Murine Eye Remedy Co., Chica Mental Overwork.

In mental overwork the brain cells, being in constant use, are apt to iemain alive after work has been abandoned. In this case sleep is prevented. Worry has a like effect on the cerebral cells, and if anything worse.

HOWARD E SURTON - Assayer and Chemist Silver, Lead, 51. Gold, Silver, 58c; Gold, 58c or Copper, 51. Mailing envelopes a d full pri sent on application. Control and Umpire we licited, Tieferencer Carbonate National Bank.

Cheap Household Cement.

Plaster of paris and gum arabic in the proportion of four parts plaster of paris to one of gum arable makes a very good cement for mending china and other articles. The ingredients are mixed in a pulverized form, water added and used at once. If smoothed over with an old knife blade while soft this cement will be glossy and hard as china when hard.

AFTER SUFFERING TWO LONG YEARS

Mrs. Aselin Was Restored to Health by Lydia E. Pinkham's Vegetable Compound.

Minneapolis, Minn.-"After my little ne was born I was sick with pains in my sides which the doctors said were



caused by inflamma-tion. I suffered a great deal every month and grew very thin. I was under the doctor's care for two long years without any benefit. Finally after repeated suggestions to try it we got Lydia E. Pink-

ham's Vegetable Compound. After taking the third bottle of the Compound I was able to do my housework and today I am strong and healthy again. I will answer letters if anyone wishes to know about my case."—Mrs. JOSEPH ASELIN, \$06 Fourth Avenue, Minneapolis, Minn.

Lydia E. Pinkham's Vegetable Compound, made from native roots and herbs, contains no narcotics or harmful drugs, and today holds the record of being the most successful remedy we know for woman's ills. If you need such

a medicine why don't you try it? If you have the slightest doubt that Lydia E. Pinkham's Vegetable Compound will help you, write to Lydia E. Pinkham MedicineCo. (confidential) Lynn, Mass., for advice. Your letter will be opened, read and answered by a woman, and held in strict confidence.

BEST FARM BUILDINGS contains space in the center for a silo

Given to Details. Not Generally Understood That Circular Structure Is Much Stronger

Than Rectangular Form- Cost

of Material Is Less.

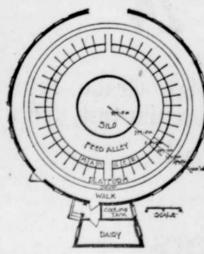
Too Little Thought and Study

(By W. J. FRAZER.)

The planning, construction, and arrangement of farm buildings do not usually receive the thought and study these subjects warrant. How many dairymen have compared a circular. 40-cow barn with the common rectangular building containing the sam area? How many understand that the circular structure is much the stronger; that the rectangular form requires 22 per cent more wall and foundation to enclose the same space; and that the cost of material is from 34 to 58 per cent more for the rectangular building?

In a community in which everyone is engaged in the same occupation. one person is likely to copy from his neighbor without apparently giving a thought as to whether or not there is a better way.

In comparing a 60-foot round barn with a rectangular barn of the same area, the two barns should afford the cows the same amount of space on the platform. Allowing each cow in the 60-foot round barn three feet six inches in width at the rear of the platform, it will accommodate 40 cows and leave space for two passageways. But in a rectangular barn, only three feet four inches of platform space need be allowed for each cow, and the 781/2-



Showing How This 60-Foot Barn May Be Arranged to Accommodate 40 Cows in Stalls-To Supply This Sized Herd and the Necessary Young Stock With Silage for Eight Months Would Require a 370-Ton Silo, or One 18 Feet in Diameter and 56 Feet Deep; With a Seven-Foot Feed Alley and a 21/2-Foot Manger, the Circle at the Stanchions Would Be 38 Feet In Diameter, or 119 1-3 Feet in Circumference; Allowing 41/2 feet for Two Passage Ways, the Stalls Would Be 2 Feet 101/2 Inches Wide at the Stanchion, and 3 Feet 6 Inches at the Drop.

foot barn, with two three-foot passageways across it for convenience in feeding, will accommodate 42 cows. While the rectangular barn has stall room for two more cows, the round barn nicely together.

Owing to the fact that a silo is a necessity for the most economical production of milk, a barn is not comsilo is the most economically built in. leg over the saddle and rode away. side, but in the rectangular form would He rode regardless of anything but cause a waste of space, and for that the fact that he was going.



Arrangement of Cow Stable for Two Rows of Cows Tailed Together-The Barn Is Cleaned by Driving Around Behind the Cows.

fore, in comparing a round dairy barn with a rectangular dairy barn, silo should be included.

The smaller surface on the outside wall of the round barn regulres less paint and makes a proportional saving in keeping the round barn painted in after years.

Shallow Concrete Pit Affords Practical Means of Taking Care of Soil Fertilizer.

The shallow concrete manure pit out of doors is a practical means of tak. deared himself more than ever to his ing care of manure and is to be recommended. Where a manure shed is used it

have free access thereto. In this way the manure will be kept well packed in the flanks. down by the animals tramping over it, and the danger of loss due to burning and excessive fermentation very materially decreased.

Barnyard manure, however, is not a phosphorus.

Experiments conducted by the Indiana station show that most clay soils of the state are deficient in that same element, phosphorus. By adding some phosphatic material to the manure as it is produced, we are able, not only to supply the lacking element, phos strong contrast to drums and trumpets. phorus, but also to fix the nitrogen, to He felt himself as a soldier degraded some extent, and thus prevent its es and could not understand why he cape in the form of ammonia gas.

Maintenance of Sows.

In the maintenance of the broodsows we have our best opportunity to make use of pasturage, waste feeds, fallen fruits, etc. Not that these things are sufficient, but because roughage, range, bulk, succulence and variety are good for the sows.

Work Together Nicely. The hog and the dairy cow work

dog is going to die, ma tante," she told her aunt. "Fiddlesticks, my dear Julia! Keep slumber. In a blaze of sunlight, Al-

differently.

should be relegated to a salon and to the mild society of two ladies who did not even know how to pull his ears or roll him over on the rug with their riding boots and spurs. He sat against

aunt, who was working something less than a thousand flowers on her tapand a Tremont does not come twice in a young girl's life, and you know you have only to be reasonable, Julia."

CHAPTER X.

the docks into the white city.

Together Again.

That night after dinner and a cigarette, he strode into the streets to distract his mind with the sight of the oriental city and to fill his ears with the eager cries of the crowd. The lamps flickered. The sky overhead was as blue nearly as in daytime. He walked leisurely toward the native "The chance to be a princess quarter, jostled, as he passed, by men in their brilliant costumes and by a veiled woman or two.

He stopped indifferently before a lit-Miss Redmond's fingers wandered, the cafe, his eyes on a Turkish bazaar wash in warm soapsuds.