## KEEP SWINE HEALTHY HANDY AS POTATO MARKER

Scours in Pigs Often Caused By Improper Feeding.

To Correct Trouble Give Sow Dose of Sulphate of Iron in Her Slop-Keep Young Animals in Dry, Sunny Quarters.

(By A. S. ALEXANDER.) When young nursing pigs begin to scour it is evident that the milk of the sow is disagreeing with them and Home. immediate attention, therefore, should be directed toward improving her rations. Most often the trouble comes from overfeeding on corn, or other rich food, just after farrowing, and pigs of fat, flabby, cross, nervous, constipated sows are most apt to suffer. Sudden changes of food, or feeding sour swill, or food from dirty troughs also tend to cause diarrhea either in nursing pigs or those that have been weaned, and all such cases should be prevented or removed.

To correct scouring in nursing pigs, give the sow 15 to 20 grains of sulphate of iron (copperas) in her slop night and morning and, if necessary, slightly increase the doses until effective. Lime water may, with advantage, be freely mixed with the slop as a preventive when there is a tendency to derangement, or after the strips a light runner, a, extends to the trouble has been checked, and also ground and slants back. These runslop or skimmed milk. When little pushed across the field. In coming to Redmond asked: pigs are scouring severely, each may a stump either or both sections are be given a raw egg and five to ten easily folded back until the obstruc Tremont was in love?" grains of subnitrate of bismuth twice tion is passed, then dropped to posidaily in addition to changing the food tion again to mark. of the sow and mixing copperas in her castor oil shaken up in milk.

right all errors in diet and sanitation use for a marker the sections are and to provide the pigs with dry, quickly removed. sunny, well-ventilated quarters. The derangement is most apt to occur BURN CHOLERA CARCASSES



Prize-Winning Mule-Footed Hog.

among pigs kept in insanitary condi-

tions. door exercise.

pigs known as rickets, there is en- may be substituted with good results Arab. largement, bending and distortion of for the trench and iron bars. the bones of the joints and limbs, and fractures of leg bones are not uncommon. The bones of the body in affected pigs lack their normal proportion of mineral material and have an excess of vegetable matter. The tendency to the disease is hereditary and most likely to be seen in closely inbred hogs or those of herds kept under insanitary conditions and long imperfectly nourished upon unbalanced rations. The excessive feeding of corn to generation after generation doubtless induces a weakness of constitution conducive to rickets and the disease may appear as a result of any aggravating circumstance productive of malnutrition.

## BREEDING ONLY BEST CATTLE which do not have these characteris-

Counterfeit Dairy Cow Has No Place on Pasture or in Feed Yard-Discard Poor Producers.

(By ROUD M'CANN, Colorado Experiment Station.)
The development of the increasing demand for well-bred dairy cattle :s based upon the recognition of the fact | TREATMENT OF COVER CROPS that under present production conditions, the counterfeit dairy cow has no place on the pasture or in the feed-

yard. During the past few years difficulty of replenishing and starting herds with good animals has confronted the feed bills have demonstrated the futility of expecting satisfactory returns | terferes with the capillary action of eyes to meet hers: dairymen are centering their demands is sometimes called souring the soil right? You don't wish us to know the on merit, of which there must be a with green manuring crops. greater supply to meet this demand. Foreign competition has created a three times with a sharp disk harrow against the Oriental. The Arab, with well grounded impression that the before plowing; plow well by taking deference, touched his forehead bemost effective way of evading it is a narrow furrow and edging rather fore her. by greater production per animal and than inverting the furrow; then better products.

Silo Pays Well.

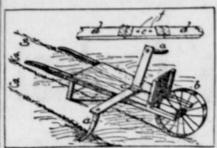
No building on the farm will pay be, better returns than a good silo, if properly built and filled on time, and in the right way.

Reduces Farm Drudgery. The modern equipment in the way of litter carriers and feed carts reminimum.

Wheelbarrow Arranged With Pine Stripe Hinged to Bottom Center Board Proves Satisfactory.

Last spring we had occasion to fit a very stumpy piece of sandy new ground for early potatoes. The one and two horse corn markers would not work because of so many stumps. The wheelbarrow being near with seed upon it a happy thought struck me-this would roll over the rough ground, roots, etc., and leave a distinct mark in the soil, besides running easily, writes G. A. Randall in Farm and

A half-inch hole was bored through the bottom center board and two pieces, c, of inch pine strips 36 inches long were hinged, as shown, to a center section, e, fastened with a wire through the holes, f, to the bottom board. On the outer ends of these



Handy Marker for Potatoes.

Being light and mounted on a center slop. In cases which do not respond wheel it pushed as easily as a wheelpromptly to treatment, success may barrow seeder and was extremely easy follow the administration of a dose of to guide; marks clear across the field being straight as those made with a In all cases it is important to set line and very distinct. When not in

Burial of Dead Animals Not Approved by Nebraska Station-Excellent Plan Is Described.

The burial of hogs dying of cholera is not advised by the department of animal pathology at the Nebraska experiment station. The germs of the disease will last a long time in the earth under favorable conditions and are liable to cause a new outbreak. The safest way to dispose of a carcass is to burn it.

Burning may be easily accomplished in the following manner: Dig two trenches a few inches deep intersecting each other at right angles. At the Inactivity of the bowels most often intersection of these, cornstalks, cobs, gives trouble in pregnant sows and or other fuel may be laid. Over the other adult hogs when given too little trenches may next be laid strips of exercise and too much rich food. In metal to support the carcass. Before such animals the liver is torpid, the being placed over the supports, the forehead and his breast as the ladies system feverish and the muscles and abdominal and thoracic cavities should entered the vestibule. There was a other organs overloaded with fat. be opened and be liberally sprinkled stagnant odor of myrrh and sandal-Constipation seldom troubles where with kerosene. Then the hog should wood in the air. The marble vestihogs are fed laxative foods, such as be placed belly downward over the bran, flaxseed meal, roots or alfalfa fuel. As soon as the material in the during the winter season, and in addi- trenches is ignited, it will rapidly tion are made to take abundant out- spread to the kerosene and fat and the body will be quickly consumed. In the common disease of young If a large iron wheel is handy, it

## IMPROVE YOUR POTATO SEED

Wisconsin Experiment Station Gives Six Excellent Rules for Farmers to Follow.

The Wisconsin experiment station tells the farmers of that state to improve their potato seed.

at them. 1. By co-operating with their neighbors in securing pure seed. 2. By planting this foundation

stock by itself where it will not be mixed with other varieties. 3. By learning the vine and tuber

characteristics of the variety one plants. 4. By discarding as seed all hills

tics.

5. By selecting seed for next year

on the field at digging time. 6. By organizing the growers, dealers and others in your community who are interested in the development and improvement of its potato industry.

Thoroughly Cut Up Clover or Other Crops With Disk Harrow Before Turning Over.

Never turn the clover or other crop when keeping poor producers, and the the moisture in the soil. The effects wideawake, progressive, businesslike of turning under in a layer are what Abou, anything more. Am I not are all the dearer because of their

Double disk the cover crop two or double disk the land again rather deeply, and no injurious effect will re- tomorrow to the government." sult however large the growth may

Bulls in Same Enclosure.

If dehorned, bulls of the same or different ages may be safely kept in the same enclosure. When two bulls are kept in adjoining enclosures they should be separated by a strong, high rinth and which a rude touch might duces the drudgery of the barns to a board fence, so they are unable to see tause her to lose forever. each other.

# HIS LOVE STORY MARIE VAN VORST ILLUSTRATIONS OF RAY WALTERS

once?"

SYNOPSIS

Ile Comte de Sabron, captain ef French eavairy, takes to his quarters to raise by hand a motherless Irish terrier pup, and names it Pitchoune. He dines with the Marquise d'Esclignac and meets Miss Julia Redmond, American heiress. He is ordered to Algiers but is not allowed to take servants or dogs. Miss Redmond takes care of Pitchoune, who, longing for his master, runs away from her. The marquise plans to marry Julia to the Duc de Tremont. Pitchoune follows Sabron to Algiers, dog and master meet, and Sabron gets permission to keep his dog with him. The Duc de Tremont finds the American heiress capricious. Sabron, wounded in an engagement, falls into the dry bed of a river and is watched over by Pitchoune leaves him. Tremont takes Julia and the marquise to Algiers in his yacht but has doubt's about Julia's Red Cross mission. After long search Julia gets trace of Sabron's whereabouts. Julia for the monent turns matchmaker in behalf of Tremont.

### CHAPTER XX-Continued.

After a moment, in which the Marquise d'Esclignac gazed at the bougainis an excellent corrective for weaned ners with the wheel in the center villea and wondered how anyone could pigs showing a tendency to scour on make three distinct marks when admire its crude and vulgar color, Miss

"Did you ever think that the Duc de

Turning shortly about to her niece,

"In love, my dear!"

her aunt stared at her.

"With Madame de la Maine." The arrival of Madame de la Maine had been a bitter blow to the Marquise d'Esclignac. The young woman was, however, much loved in Paris and quite in the eye of the world. There was no possible reason why the Marquise d'Esclignac should avoid her.

"You have been hearing gossip, Julia."

"I have been watching a lovely woman," said the girl simply, "and a man. That's all. You wouldn't want me to marry a man who loves another woman, ma tante, when the woman loves him and when I love another man?"

She laughed and kissed her aunt's

"Let us think of the soldier," she murmured, "let us think just of him, plan for rescuing Sabron." ma tante, will you not?"

The Marquise d'Esclignac struck her colors. In the hallway of the villa, in a

snowy gibbeh (and his clean-washed appearance was much in his favor), Hammet Abou waited to talk with the "grandmother" and the excellency. He pressed both his hands to his

bule was cool and dark, the walls hung with high-colored stuffs, the windows drawn to keep out the heat. The Duc de Tremont and Madame

de la Maine came out of the salon together. Tremont nodded to the

"I hope you are a little less-" and he touched his forehead smiling, "today, my friend.

"I am as God made me, Monsieur." What have you got today?" asked Julia Redmond anxiously, fixing her eager eyes upon Hammet.

It seemed terrible to her that this man should stand there with a vital secret and that they should not all be at his feet. He glanced boldly around

"No, no, you may speak freely." The man went forward to Tremont and put a paper in his hands, unfolding it like a chart.

"There are no soldiers here?"

"This is what monsieur asked me for-a plan of the battlefield. This is the battlefield, and this is the desert."

Tremont took the chart. On the page was simply a round circle, drawn in red ink, with a few Arabian characters and nothing else. Hammet Abou traced the circle with his fingers

tipped with henna. "That was the battle, Monsieur." "But this is no chart, Hammet

Abou." The other continued, unmoved: "And all the rest is a desert, like

this " Tremont, over the man's snowy turban, glanced at the others and shrugged. Every one but Julia Red- and slipped her arm in hers. mond thought he was insane. She under without first thoroughly cutting came up to him where he stood close dairy farmer at every turn. High up with a disk harrow, as the material to Tremont. She said very slowly in plowed under in a layer seriously in- French, compelling the man's dark

"You don't wish to tell us, Hammet truth."

Now it was the American pitted affectionate.

"If I made a true plan," he said coolly, "your excellency could give it "Just what should be done, Julia," said the Marquise d'Esclignac, in English. "This man should be arrested

at once. "Ma tante," pleaded Julia Redmond. She felt as though a slender thread was between her fingers, a thread which led her to the door of a laby-

"If you had money would you start | tache. He looked boyish and charm- do."

COPYRIGHT BY THE DOBBS HERRILL COMPANY out to find Monsieur de Sabron at

> "It would cost a great deal, Excellency. "You shall have all the money you

need. Do you think you would be able to find your way?" "Yes, Excellency."

The Duc de Tremont watched the American girl. She was bartering with an Arabian for the salvation of a poor officer. What an enthusiast! He had no idea she had ever seen Sabron more than once or twice in her life. He came forward.

"Let me talk to this man," he said with authority, and Julia Redmond did not dispute him.

In a tone different from the light and mocking one that he had hitherto used to the Arab, Tremont began to ask a dozen questions severely, and in his answers to the young Frenchman. Hammet Abou began to make a favorable impression on every one save the Marquise d'Esclignac, who did not understand him. There was a huge bamboo chair on a dais under a Chinese pagoda, and the Marquise d'Esclignae took the chair and sat upright as on a throne. Mimi, who had just been fed, came in tinkling her little bells and fawned at the sandals on Hammet Abou's bare feet. After talking with the native, Tremont said to his friends:

"This man says that if he joins a Jewish caravan, which leaves here tomerrow at sundown, he will be taken with these men and leave the city without suspicion, but he must share the expenses of the whole caravan. The expedition will not be without danger; it must be entered into with great subtlety. He is either," said Tremont, "an impostor or a remarkable man."

"He is an impostor, of course, murmured the Marquise d'Esclignac. 'Come here, Mini.' Trement went on:

"Further he will not disclose to us. He has evidently some carefully laid

There was a pause. Hammet Abou, his hands folded peacefully across his breast waited Julia Redmend waited. The Comtesse de la Maine, in her pretty voice, asked quickly:

"But, mes amis, there is a man's life at stake! Why do we stand here talking in the antechamber? Evident-



Tremont Began to Ask a Dozen Ques tions.

ly the war office has done all it can for the Capitaine de Sabron. But they have not found him. Whether this fellow is crazy or not, he has a wonderful hypothesis."

A brilliant look of gratitude crossed Julia Redmond's face. She glanced at the Comtesse de la Maine.

"Ah, she's got the heart!" she said to herself. "I knew it." She crossed the hall to the Comtesse de la Maine "Has Monsieur de Sabron no near

family?" "No," said the Marquise d'Esclignac from her throne. "He is one of those unfamilied beings who, when they are once taken into other hearts

Her tone was not unkind. It was

orphaned state."

"Now, my good man," she said to Hammet Abou, in a language totally incomprehensible to him, "money is no object in this question, but what will you do with Monsieur de Sabron if you find him? He may be an invalid, and the ransom will be fabulous.

The Comtesse de la Maine felt the girl's arm in hers tremble. Hammet Abou answered none of these questions, for he did not understand them. He said quietly to Tremont:

"The caravan starts tomorrow at sundown and there is much to do." Tremont stood pulling his mus-

ing. withal serious beyond his water ONCE A RIVER VALLEY corner where the two women stood to-

Abou," said he slowly, "if it can be arranged. Otherwise this expedition does not interest me."

Two women said: "Oh, heavens!" at once. Robert de Tremont heard the note of anxiety in the younger voice alone. He glanced at the Comtesse de la

Maine. "You are quite right, Madame," he brother officer."

The Marquise d'Esclignac got down from her throne, trembling. Her eyes lished by the United States geological were fixed upon her niece.

"Julia," she began, and stopped. Madame de la Maine said nothing. "Robert, you are my godson, and I forbid it. Your mother-

ever knew," said her godson. "My island, and then through the gorge of father was a soldier."

Julia withdraw her arm from the Comtesse de la Maine as though to leave her free. "Then you two girls," said the Marquise d'Esclignac, thoroughly Amerithe valley, and formed the present can for a moment, "must forbid him bay.

to go." She fixed her eyes sternly upon her niece, with a glance of entreaty and reproach. Miss Redmond said in a firm voice: "In Monsieur de Tremont's case I should do exactly what he proposes."

Marquise d'Esclignac. "He is not even an intimate friend of Monsieur de Ba-

Tremont said, smiling: "You tell us that he has no brother, marraine. Eh bien, I will pass as

heart. She almost loved him. If, as by nature. her aunt had said, Sabron had been out of the question

Marquise d'Esclignac, her hands shak- belong to the geologic period known as ing, "I appeal to you to divert this the Jurassic, but many of them are headstrong young man from his pur- much younger and were laid down on

tiful smiles that mean so much on in places they stand nearly on end. a woman's face. She was the only . The forces which have raised these tesse de la Maine said to Julia:

will you?"

## CHAPTER XXI.

Master and Friend.

ran over the sands away from his ous earthquakes to be expected. master. He was an infinitesimal dot on the desert's face. He was only a small Irish terrier in the heart of the Sahara. His little wiry body and his the blood of a fighter in him and he he was running away. It looked very much like it. There was no one to comment on his treachery; had there been, Pitchoune would not have run

far. It was not an ordinary sight to see going as fast as he could.

(TO BE CONTINUED.) Rome's Colossal Fish Pond.

The duke of Sermoneta who is acting as president of the committee formed in Rome to promote the independence of Poland, ranks among the greatest landowners in Italy, Fogliano, his estate near the Pontine marshes, extending to 80,000 acres, mainly under grass, for the duke owns vast herds of cattle. The most productive portion of the estate, however, is a lake several miles long and about a mile in breadth, which, from the time of the Roman empire downward, has supplied fish for the market in Rome. Whenever there is a flood by rain on the hills the lake overflows through a narrow channel into the sea. The sea fish find their way through into the lake, and remain to fatten in the distinctly mystified, says the Lookfresh water, and then are captured on their return by an ingenious labyrinth constructed of reeds into which they swim. They are of the best kindchiefly gray mullet.

And That Spoiled It.

Douglas Fairbanks went to a social affair the other night and an admiring woman cornered him. "Oh, Mr. Fairbanks," she said, "your

acting is wonderful."

"Thank you," he replied. "It's marvelous how you bring out

the different emotions." "I'm glad you appreciate my work"

"Yes, indeed, you are a great actor." "You are indeed complimentary." "And do you know," the woman rat-

"I intend to go with you, Hammet PROCESS OF FORMATION OF BAY OF SAN FRANCISCO.

> Not Always the Magnificent Landlooked Harbor That It Is Today-Report Made by the Geological Burvey.

Few people in viewing the Bay of said, "a man's life is at stake and we San Francisco think of it as other than stand chaffing here. I know some a magnificent land-locked harbor about thing of what the desert is and what which has grown the commercial methe natives are. Sabron would be the tropolis of the Pacific coast of the first to go if it were a question of a United States. Yet this harbor did not always exist, according to a report on the geology of the region recently pubsurvey, for at one time through the depression now occupied by the bay ran a great river that drained the Sacramento and San Joaquin valleys.

This river probably flowed between "-is one of the bravest women I the Tiburen peninsula and Angel the Golden Gate, where at present the greatest depth of water is 400 feet. After the river valley was formed the coast slowly sank and the ocean entered through the Golden Gate, flooded

Thus the valley occupied by the bay is really not so very different from Santa Clara and Santa Rosa valleys, and should the Pacific coast sink a few hundred feet lower, those fertile val-"But he is risking his life," said the leys would form great additions to the present bay.

But the change from a river valley to a bay happened very slowly, for even great earthquakes as a rule do not move large areas of the earth more than a few inches, and it is likely to be thousands of years before the outlines A thrill touched Julia Redmond's of the present bay are greatly changed

The region is particularly interesting, for it is one of the newest parts "Madame de la Maine," said the of our continent. Some of the rocks the floor by the ocean long after the The Comtesse de la Maine was the Appalachian mountains were formed.

palest of the three women. She had Although these rocks are relatively been quietly looking at Tremont and young, yet they are hundreds of thounow a smile crossed her lips that had sands of years old and have been tears back of it-one of those beau-raised out of the sea and tilted until

one of the three who had not yet rocks and have folded and broken spoken. Trement was waiting for her, them are still active, yet their effects Hammet Abou, with whom he had are so gradually accomplished that for been in earnest conversation, was an- the most part they are inappreciable swering his further questions. The in a generation or even in several cen-Marquise d'Esclignac shrugged, threw turies. Sometimes, however, their efup her hands as though she gave up feet is more apparent, as for instance all questions of romance, rescue and when they cause earthquakes. Earthdisappointed love and foolish girls, quakes are due to slight movements and walked out thoroughly wretched, along what geologists call "faults," Mimi tinkling at her heels. The Com- which are really broken places in the earth's crust where the rocks on one "Ma chere, what were the words of side of the break or crack move past the English song you sang last night those on the other side. Some of the song you told me was a sort of these faults may be traced for milesprayer. Tell me the words slowly, not, of course, as open cracks, for to anyone but a close observer the rocks They walked out of the vestibule seem as unbroken in most places along together, leaving Hammet Abou and the fault lines as they do in any other

part of the region Most of these breaks are fortunately old, and it is to be hoped that movement along them has ceased, but two are alive, and along one of these oc-Pitchoune, who might have been curred the movements that resulted considered as one of the infinitesimal in the earthquake of April, 1906. Only atoms in the economy of the universe, once in several generations are seri-

War Alde Jap Woolen Industry. The army clothing orders received in Japan since the outbreak of war color seemed to blend with the dust. have stimulated the flagging ambition His eyes were dimmed by hunger and to make Japan a great wool manufacthirst and exhaustion, but there was turing country. The Mainichi (Osaka), points out truly enough how the inwas a thoroughbred. Nevertheless, dustry had subdivided itself in Europe, where England, Germany and Austria each had its own specialties and manipulated the fiber in different stages of manufacture. Seeing that Australia is the great country for the supply on the Sahara—a small Irish terrier thinks it would be much more raof the raw material, the Osaka paper tional for Japan to receive the wool and manipulate it in all stages before it was passed on to Europe than it is for it to go the round on to Europe and then come out to Japan in the manufacured state. It therefore exhorts the Japanese manufacturers to put the necessary energy into the task of building up a trade which European competitors will not be able to take away again after the war.-Japan Chronicle.

This Happened in New York.

"No spik English," gesticulated Hafig with rising excitement, looking rather wildly about for an interpreter, down at the Seamen's Church institute on South street. Arab translators are not frequent about the institute, and the man behind the desk down in the savings department was

"He won't take this money; it's interest on the gold he deposited with us a year ago," he explained at last to a glittering-eyed man from Bag-

dad who finally came to the rescue. "Oh, no, he can't. Mohammedansthey can't-any of them. It is against their religion to take interest. Hafiz, he very good, very devout," protested the interpreter. And Hafiz went away, virtuously content.

Homes for the War-Stricken. Lumbermen in British Columbia

have been asked to bid on a contract for 500,000,000 feet of lumber to be used in constructing 100,000 two-room houses in northern France. The tled on, "I have a little five-year-old houses are to be built at government son at home who acts exactly like you expense for those whose property was destroyed in war.