COMMON VETCH CROP IN ROTATION

Common Weed Seeds in Vetch Seed; a, Corn Cockle; b, Cow Cockle; c, Cleavers; d, Field Bindweed; e, Ball-Mustard; f, English Charlock, or Wild Mustard; g, Wild Oats; h, Darnel. (Enlarged and Natural Size.)

V. PIPER and F. H. HILLMAN, United States Department of Agriculture.)

mon vetch is nearly always in rotation. Continuous cropping to vetch for seed production usually results in reduced yields after three years, according to Oregon experience. The effects of cutting the crop for hay seem to be far less marked, but, nevertheless, continuous cropping to vetch is unnecessary and undesirable.

Oregon and Washington common vetch is usually grown after spring oats. It is advantageously used in rotation with potatoes or corn. In the region about Augusta, Ga., the most famous vetch-growing section of the south, the crop is mostly used in rotation with Johnson grass, this being especially true on valley lands where the Johnson grass volunteers. Vetch, commonly mixed with rye or other small grain, is usually sown in October on well-prepared land and harvested by the middle of May. After the vetch crop is removed the Johnson grass, more or less mixed with other grasses, begins to grow and commonly yields two hay crops during the season.

Where Johnson grass does not perennially occupy the land it is not advisable to sow it, as it is extremely difficult to eradicate. In this case various summer crops can be grown in rotation, such as sorghum, cowpeas, sorghum and cowpeas, soy beans, peanuts, etc.

Common vetch is not well adapted to rotating with cotton unless used only as a green manure. The vetch must be harvested soon enough to permit the early planting of cotton, which when the seed is sown between the rows of cotton.

Common vetch is somewhat inclined to persist when once grown, especially where the winters are mild. It has been known of its reseeding itself in pastures for five years. In cultivated fields it volunteers readily, and is especially objectionable in a wheat crop owing to the difficulty of separating the vetch seed from the wheat. There is no danger of volunteer vetch unless a seed crop is matured or at least some of the seed allowed to ripen. In such cases, to prevent volunteer vetch, the best plan is to follow with a crop of vetch and cut for hay, pasturing the stubble, so that no seed is allowd to ripen. A cultivated crop should be grown the next season, and then the land can be planted to wheat without any danger of the vetch volunteering.

The use of low-grade screenings in adulteration usually introduces various weed seeds which are few or wanting in the best vetch seed. Some of these are generally recognized as noxious, and seed containing them should not be sown.

Corn cockle, or cockle, seeds probably are the commonest of the weed seeds with vetch seed, particularly seed of hairy vetch. This seed is recognized by its spiny surface, angular form, and dark-brown or black color.

Cow cockle seeds, often referred to as cockle, differ from the preceding in being spherical and not spiny. They are black and about the size of the smallest hairy vetch seeds.

The seeds of cleavers are somewhat hemispherical, the flattened face having a depression or cavity at the scar. The surface is roughened and gray or light brown. The gray color aids in distinguishing these seeds from vetch seed.

Field bindweed seeds are angular, brown or gray, the surface being finely roughened. They are similar in form to those of the morning-glory. They are not common in vetch seed, except in low-grade lots.

Ball mustard seeds are inclosed singly in small, straw-colored or brown, net-veined pods. The pods are somewhat flattened and are about the size of the smaller hairy vetch seeds.

English charlock, or wild mustard, seeds occur in some lots of poorly cleaned seed of hairy vetch. The charlock seeds are smaller than those of hairy vetch, and they are spherical, black or brown. They should not be confounded with the previously described cow cockle seeds, which are larger.

Wild oat seeds are similar to the seed of the cultivated oat, but can be distinguished by the cup-shaped scar at the base. This seed is either brown or straw colored. Some seeds have brownish hairs, and a twisted awn from near the middle is more or less evident.

Darnel seeds are similar to those of rye-grass, but are larger and heavier. The slender awn is often broken from the apex of the seed.

PROTECTION FOR THE THUMB

A Flexible Shield Invented by Nebraska Man—Can Be Used for Rough Farm Work.

objection to the ordinary rubber with finger-cot or thumbstall, or whatever you choose to call it, has been its lack of protection from an accidental knock. Many a wound thus caused from dirt also needs protection from blows, and it took a Nebraska man to design a thumstall which should answer this latter purpose. The article shown in the illustration is the result and its characteristics can be seen at a glance. It

Metal Thumbstall.

consists of a number of U-shaped links so joined that they fit closely and keep out the dirt, yet are flexible, giving the wearer the use of the thumb to as great an extent as the nature of the work will permit. Encased in this is a flexible coat of mail, there is no danger of a wound being opened by an unexpected jolt. It is also worn in husking corn, removing husk or in rough farm work.

Protecting Chickens.

It is said that farmers are, in some parts of the country, living along frequented by motorists, plowing furrows across the highway. A hen always runs under a car instead of away from it, and the furrows compel the drivers of cars to go slow.

A Real Fence.

Fences are a very important item on the farm, and should not be skimped. Find out all you can about them—how they are made, what kind of wire is used, then buy wisely by choosing a fence of proper construction, right height, made of the heaviest wire you can afford. Heavy wire carries much more galvanizing in proportion to its size than light wire, so is the cheapest in the end, having greater strength.

GENERAL FARM NOTES

The flavor of the egg is influenced by feed.

Save all the leaves and use them in the scratching shed.

The older the hen the larger will be her averaged sized eggs.

Double-yolked eggs are the result of over-fat, or a diseased ovary.

A good time to cull out the inferior birds is when the market is up.

Fix it so your fresh cow will not see or hear their calves if you can.

The best milk flow cannot be maintained without variety of feeds for the cow.

There is truth in the argument that milk should be aerated before it is cooled.

Eggs are colored by a pigment, which, it seems, does not exist in all fowls.

The dairy ties one to the farm pretty close, but it oftentimes unties the bond of debt.

Where the dropping boards are made of matched lumber the job of cleaning them is easier.

There is one important thing to remember when trying for winter eggs: Make your hens scratch.

The first eggs of winter are generally larger than those laid at the close of the summer season.

Trying to run a dairy without a cream separator is like attempting to steer a ship without a rudder.

A horse will not do well shut up in a tight box stall—he should have plenty of air and light at all times.

The best plan for weaning colts is to keep the mare and colt apart until they have entirely forgotten each other.

Unless more butter is made from a can of cream than it contains pounds of fat there is something wrong.

Only rich men can afford to keep cows that do not earn their feed. The poorer a man is the better his cows ought to be.

The dirt and sweat which accumulate on the horses during the day should never be allowed to remain on them overnight.

A fine, bright, sleek, clean-haired horse nearly always has nerve, action and endurance, coupled with a nervous but gentle disposition.

Mix kerosene and tar well together and with a paint or whitewash brush out this mixture on the roosts and in the nests before you put the straw in.

Better results in grains and the quality of pork produced are invariably produced when variety is furnished in the swine ration than when not furnished.

As a rule the fertility of the farm can be more easily kept up by sheep than by dairy husbandry, but there is more profit—and more labor—in the latter.

PROPER WASHING OF DISHES

Methods That Take Time but in the End Produce the Results Most Desirable.

The bacteriologist finds no kitchen clean enough and the ordinary method of washing dishes he is likely to call a "smear."

Dishes have been tested to determine the number of organisms that remain on them after "ordinary" washing as compared with a method that requires an application of hot water with the help of soap or, better still, carbonate of soda, a thorough rinsing in hot water, and wiping with a sterilized cloth (that is, one which has been in boiling water since it was used before.) By this latter method the dishes were practically sterile, while many organisms were left on the dishes that were washed by the "ordinary" method.

One might ask, what harm will they do? Oftentimes none, but if the bacteria are those which convey disease, dirty dishes may be the means of giving it to well persons. But most of all, persons who are at all thoughtful of such things do not want any dirt which may be prevented by good methods, simply because dirt in itself is sufficiently unpleasant.

In washing milk utensils it is first necessary to remove with warm water all traces of the milk before scalding water is used. Because of the cream adhering to the sides, soap is used also, but the greatest care must be taken to remove by repeated rinsing every trace of soap. A telltale flavor of soap in the morning cream has more than once revealed careless habits in the kitchen, and made it evident that all the soap was not removed in rinsing. The utensils must then be dipped into absolutely boiling water for a moment.

It is an important matter to wash the milk bottle in which milk is now commonly delivered to customers. By this we refer to the washing of the full bottle before it is opened. It is safe to say that this is seldom done. But notice the bottle as it is brought into the kitchen, the milkman grasping it with his hand over the top.

EXCELLENT FOR THE DESSERT

Little Better Can Be Devised Than the Two Recipes That Are Given Below.

President's Fruit Cake.—This recipe must be measured exactly. Two cups of flour, one cup of sugar, two teaspoons of soda, a pinch of salt, one teaspoon of cinnamon, one teaspoon of cloves, one-half grated nutmeg, three tablespoons chocolate, one tablespoon cornstarch; sift twice. Mix one cup walnuts with one cup seeded raisins (chopped raisins), add both to dry ingredients; one-half cup melted butter, one and a half cups cold unsweetened apple sauce. Bake one hour in slow oven.

Frosting.—On teaspoon melted butter, one cup powdered sugar, two tablespoons sweet milk. Stir to desired stiffness and spread on cake.

Divinity Fudge.—Three cups sugar, one cup corn sirup, one-quarter cup water. Cook until it cracks. When cooled in water, set aside. One-half cup sugar, one-quarter cup water. Cook until it hairs. Whites of three eggs beaten to a siff froth; pour last of sirup over beaten whites and beat constantly, then add first sirup; beat about 15 minutes and add a cup of nuts.

Pressed Corn Beef—Cold.

Soak over night if very salt, but if beef is young and properly corned, this is not necessary. Pour over it cold water enough to cover it well, after washing off the salt. The rule for boiling meats is 25 minutes to a pound, but corned beef should be placed on a part of the stove or range where it will simmer, not boil, uninterruptedly from four to six hours, according to size of the piece; remove from liquor, then place in a tin; put sufficient weight on top to press the parts closely together; set where it will become cold. This gives a firm, solid piece to cut into slices, garnish with sprigs of parsley or celery and serve with fancy pickles or French mustard. A brisket or plate piece is the best, removing bones when done.

Alabama Delight.

Mix one cupful of stale bread crumbs, half cupful of finely chopped beef suet, one cupful of grated sweet potato packed down, half cupful of molasses, one egg, well beaten; one cupful of raisins, one cupful sweet milk, in which dissolve a level teaspoonful of baking soda; half a teaspoonful each of cloves, mace and nutmeg, one teaspoonful each of cinnamon and salt. Boil in a greased mold. Set in boiling water for three hours. Serve with either hard or liquid sauce.

Curried Eggs.

Fry two sliced onions in butter to a golden brown, add one pint of good stock and one teaspoonful of curry powder and stew the onions tender. Then add one cupful of cream, thicken with arrowroot or rice flour and let simmer a few minutes. Cut eight or ten hot, hard boiled eggs in halves, arrange in a deep dish, and pour the sauce over them. A plain salad of head lettuce or shredded lettuce with slices of stuffed olives adds to the dish.

Inexpensive Chocolate Cake.

Two eggs, one-half cup butter, one cup sugar, two cups flour, one cup milk, two teaspoonful baking powder, one teaspoonful vanilla. Butter and sugar beaten first, then add mixed baking powder and flour. Add butter, eggs and milk. Bake 40 minutes. Put on chocolate icing.

Frizzled Meat.

Take meat that is too tough to boil, put on ice and freeze. Then shave in small pieces; have a hot griddle or frying pan, grease and put the meat in to cook. Turn quickly, then serve with gravy after adding salt and pepper.

Fried Summer Squash.

Take three of four small and tender summer squashes—crooknecks are the best. Cut in slices about half an inch thick, taking out the seeds. Boil them half an hour, or until tender, in slightly salted water. When done fry them in butter a delicate brown.

DROPSY TREATED. Give quick relief, usually remove swelling and short breath in a few days and entire relief in 15-45 days, trial treatment FREE. DR. GREEN'S SONS, Box A, Atlanta, Ga.

PISO'S REMEDY 25 CTS. Best Cough Syrup. Tastes Good. Use in time. Sold by Druggists. 25 CTS. FOR COUGHS AND COLDS

Hopeless.

"Who wrote that story about Roosevelt's return to the Outlook office?" asked the managing editor.

"Billy Pennington," replied the city editor. "I thought it was a pretty good story."

"It was more than that. It was a remarkable story. I think we ought to raise Pennington's salary. He didn't wind up by saying: 'The colonel then plunged into a mass of correspondence.'"

"I'm sorry to have to tell you that he did I blue-penciled that part of it"

"Oh, pshaw! We'll never be able to make anything of that fellow"

As a summer tonic there is no medicine that quite compares with OXIDINE. It not only builds up the system, but taken regularly, prevents Malaria. Regular or Tasteless formula at Druggists. Adv.

Up and Doing.

Not all city folks are as ignorant of the farmer's surroundings as the farmers sometimes suppose. This was evidenced by an incident in the stay of a young New Yorker on a New England farm.

"Well, young man," said the farmer to his boarder who was up early and looking around, "been out to hear the haycock crow, I suppose?" And the sly old chap winked at his hired man.

The city man smiled. "No," said he suavely, "I've merely been out tying a knot in a cord of wood."—Judge's Library.

Where Autos Are Barred.

Prince Edward island bars automobiles, not because the islanders cannot afford the machines, but because of accidents caused by the recklessness of drivers who brought in the first cars. They caused many runaways, and a few had tragic endings. The legislature at once passed a law barring autos from the island. Some of the leading cities have since endeavored to have the enactment repealed, but the country influence has always been strong enough to overcome all such efforts.

Marking Arrival of Age.

When I get to be old I ain't goin' to find it out by countin' up to see, nor by my whiskers, nor by my gums, nor none of them signs. They'll all fool you. No, sir! But one of these times I'll get throwed down, and I won't bounce back. Then I'll know it's all over. When a man gets that way, he's old. Old, see? It don't make any difference how much longer he lives after that, he don't ever get any older.—"Billy Fortune."

Important Part.

They met in Fifth avenue.

"I hear you have been away to a mothers' congress."

"Yes."

"Take any part in the proceedings, or just go as a spectator?"

"Oh, I took quite a prominent part. I was chairwoman of the committee on measles."—Exchange.

Why Girls Postpone.

Nell—Isn't Alice soon going to marry Jack?

Belle—I don't know. She says she hates to give up the dollar and a half shows for the ten-cent moving pictures.

Scarce as Hen's Teeth.

Mr. Crimsonbeak—That bachelor friend of mine is looking for a partner for his joys and sorrows.

Mrs. Crimsonbeak—Well, it seems to me he's a long time about it.

"Yes; you see he's looking for a silent partner."

Too Cold for Baths.

Dr. Xene Y. Smith, a medical inspector in the Muncie (Ind.) public schools, tells this story of his experiences in examining pupils.

"When were you bathed?" asked Dr. Smith of a boy of seven or eight years

"Bathed?" queried the child. "Why, don't you know this is winter?"

Qualified.

"Was your son one of the popular boys at college?"

"Yes, indeed. He was elected cheer leader three times."

"And what is he going to do now?"

"He is considering a fine offer to call carriages for a leading catering firm."

Banquets.

"Pa, who do people have banquets?"

"For the purpose of giving men who do not get a chance to talk at home a chance to talk away from home."

The Way.

"Come, my dear, let's travel into slumberland."

"Well, mamma, can we travel on the sleepers?"

It takes a romantic woman to arrange for the marriage of her children before they are born.

TO DRIVE OUT MALARIA AND BUILD UP THE SYSTEM Take the Old Standard GROVE'S TASTELESS CHILL TONIC. You know what you are taking. The formula is plainly printed on every bottle, showing it is simply Quinine and Iron in a tasteless form, and the most effectual form. For grown people and children, 50 cents. Adv.

Of course, love is blind, but it might be just as well to remember that the eyesight of the neighbors is good.

If your appetite is not what it should be perhaps Malaria is developing. It affects the whole system. OXIDINE will clear away the germs, rid you of Malaria and generally improve your condition. Adv.

A scientist has discovered that the onion is a cure for love.

MERIT HAS MADE

Bond's Liver Pills a household word by the people of the great South.

We have spared neither time nor money in perfecting BOND'S PILLS to meet the needs of those who suffer from Headaches, Biliousness, Constipation, Malaria and consequent ills. MERIT was our chief object. Not how cheap, but "how good" we could make them.

The phenomenal sale of BOND'S LIVER PILLS is due solely to their MERIT—not to loud and misleading claims of CURING EVERYTHING.

All druggists, 25c.—Adv.

COULDN'T STAND IT.

The Tragedian—I always manage to move my audiences.

The Comedian—Yes, they usually start to go after the second act.

HEAD A MASS OF PIMPLES

Hyattsville, Md.—"My little boy was taken with an itching on the scalp. There was an ashy place on his head about the size of a ten-cent piece, and the hair was falling from this place by the roots. In about ten days all over his head were these ashy spots which looked like ringworm, but were porous-like. The itching and burning made him scratch a great deal. His head had gotten so that it was just a mass of mattery little pimples all heaped on each other, and when I took off his night-cap, the hair and flesh came off at the same time. I really thought he would lose his whole scalp. He couldn't sleep for five weeks, it would itch and burn until I thought he would go into convulsions.

"I used different soaps and salves to no satisfaction. Then I decided to use the Cuticura Soap and Ointment. Finally I noticed he began to sleep all night. I used one cake of Cuticura Soap and one box of Cuticura Ointment and he was entirely cured. He has a better growth of hair now than he had at first." (Signed) Mrs. Ida S. Johnson, Mar. 26, 1912.

Cuticura Soap and Ointment sold throughout the world. Sample of each free, with 32-p. Skin Book. Address post-card "Cuticura, Dept. L, Boston." Adv.

Equivocal Reply.

A nonconformist clergman in Manchester is chuckling over a letter he recently received from the vicar of a certain parish. He had written to the vicar asking for permission to conduct a funeral in the churchyard.

"He immediately sent me a most courteous note," the nonconformist clergyman says; "but I could not help noticing that it would be possible to give to his word a sinister meaning. The note ran: 'You will, both tomorrow and at any other time, be most welcome in our churchyard.'"—London Tit-Bits.

Being a Diplomat.

"I am much bothered," he said. "I can marry a wealthy widow whom I don't love, or a poor girl that I do love intensely. What shall I do?"

"Listen to your heart," advised his companion, "and marry the one you love."

"You are right, my friend. I shall marry the girl."

"Then can you give me the widow's address?"—London Opinion.

Regular practicing physicians recommend and prescribe OXIDINE for Malaria, because it is a proven remedy by years of experience. Keep a bottle in the medicine chest and administer at first sign of Chills and Fever. Adv.

Misleading Expression.

"That fellow yonder has a very vacant look."

"Yet I know he's full."

Rather Strenuous.

"Did they kiss and make up?"

"Yes, and after they kissed, Bella had to make up aagin."

NOT FIT FOR LADIES

Public sentiment should be against it, and we believe it is, there can be no reason why ladies should have to suffer with headaches and neuralgia, especially when Hunt's Lightning Oil gives such prompt relief. It is simply a question of getting the ladies to try it. All druggists sell Hunt's Lightning Oil in 25c and 50c bottles. Adv.

Retiring Place.

"Where have you put your essays on the dove of peace?"

"In the pigeon hole."

Water in bluing is adulteration. Glass and water makes liquid blue costly. Buy Red Cross Ball Blue, makes clothes whiter than snow. Adv.

Unworthy Competition.

American-made shoes compete in parts of Russia with "American" shoes made in Germany.

To prevent Malaria is far better than to cure it. In malarial countries take a dose of OXIDINE regularly one each week and save yourself from Chills and Fever and other malarial troubles. Adv.

It's easier to persuade a man to stand alone than it is to induce him to stand a loan.

Take all the swift advantage of the hours.—Shakespeare.

Don't buy water for bluing. Liquid blue is almost all water. Buy Red Cross Ball Blue, the blue that's all blue. Adv.

Method will teach you to win time.—Goethe.

Somewhat Lazy.

A lawsuit was recently in full swing and during its progress a witness was cross-examined as to the habits and character of the defendant.

"Has Mr. M—— a reputation for being abnormally lazy?" asked counsel briskly.

"Well, sir, it's this way——"

"Will you kindly answer the question asked?" struck in the irascible lawyer.

"Well, sir, I was going to say it's this way. I don't want to do the gentleman in question any injustice. And I won't go so far as to say, sir, that he's lazy exactly; but, if it required any voluntary work on his part to digest his food—why, he'd die from lack of nutrition, sir."—London Answers.

Epigram.

"That wasn't a bad epigram on the magistrate's part," said the somewhat educated tramp, who had been convicted for vagrancy.

"What did he say?" asked the tramp's pal.

"Seven days," came the reply.

"That ain't no epigram, is it?"

"I'm sure it is. I asked a parson once what an epigram was, and he says, 'It's a short sentence that sounds light, but gives you plenty to think about.'"

Dangerous Remedy.

"Give the patient a little liquor, why don't you?"

"Can't; it would set him crazy. He has water on the brain."

As a summer tonic there is no medicine that quite compares with OXIDINE. It not only builds up the system, but taken regularly, prevents Malaria. Regular or Tasteless formula at Druggists. Adv.

Not Always.

"It is money makes the mare go."

"If she turns out a loser, it is the mare that makes the money go."

Dr. Pierce's Pleasant Pellets cure constipation. Constipation is the cause of many diseases. Cure the cause and you cure the disease. Easy to take. Adv.

State Aviation School.

Guatemala has opened an aviation school.

Mrs. Winslow's Soothing Syrup for Children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle. Adv.

A dog may worry a cat, but a man, being nobler than a dog, worries some woman.

A great majority of summer ills are due to Malaria in suppressed form. Lassitude and headaches are but two symptoms. OXIDINE eradicates the Malaria germ and tones up the entire system. Adv.

Mind unemployed is mind unenjoyed.—Bovee.

ITCH Relieved in 30 Minutes. Woolford's Sanitary Lotion for all kinds of contagious itch. At Druggists. Adv.

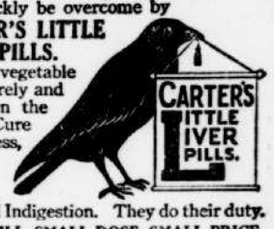
But a tip doesn't always come to the man who waits.

BUY FOLEY'S HONEY AND TAR COMPOUND USE

Stops Coughs - Cures Colds

The Wretchedness of Constipation

Can quickly be overcome by CARTER'S LITTLE LIVER PILLS. Purely vegetable—act surely and gently on the liver. Cure Biliousness, Headache, Dizziness, and Indigestion. They do their duty.



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Genuine must bear Signature

Brent Good

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Save the time and expense of hauling your corn to the mill. Buy a MONARCH MILL and grind the meal for your own table. You are sure to have cleaner, fresher and more meal. Send today for a Monarch Mill.

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For grinding Corn Meal, all kinds of feed, or Cracking Corn, etc., MONARCH MILLS are the best. Our 15-day free trial will prove it. State kind and amount of power you have and ask for catalog and further information.

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to learn Barber's trade. Opportunity to work out your tuition. Wages from start. Tools and Diplomas given. Positions guaranteed. Write Palmer System, Little Rock, Ark.

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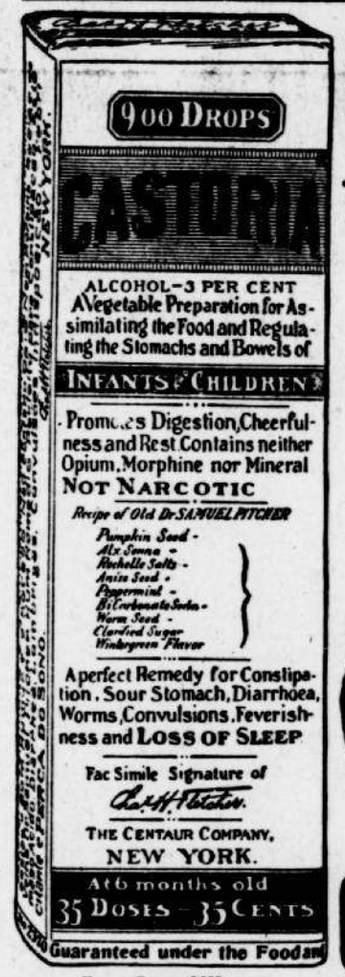

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New Times, New Things

The old fertilizer formulas are giving way to the new. At every farmers' meeting one subject should be the fertilizer formula that will furnish a balanced ration to the crop and keep up the fertility of the soil. To do this the fertilizer should contain at least as much

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as Phosphoric Acid. Our note book has condensed facts essential in farmers' meetings and plenty of space to record the new things that you hear. Let us send one to you before your Institute meets.

A supply of these is furnished by request to every institute held in several states. We will be glad to send a supply delivered free of charge to every Institute, Grange or Farmers' Club Officer on request. It contains no advertising matter.

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If Yours is fluttering or weak, use "RENOVINE." Made by Van Vleet-Mansfield Drug Co., Memphis, Tenn. Price $1.00