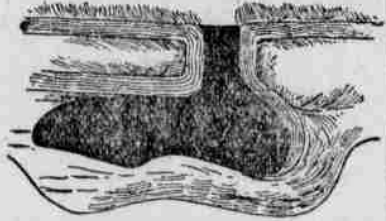


AGRICULTURAL



The Ox Warble Fly.

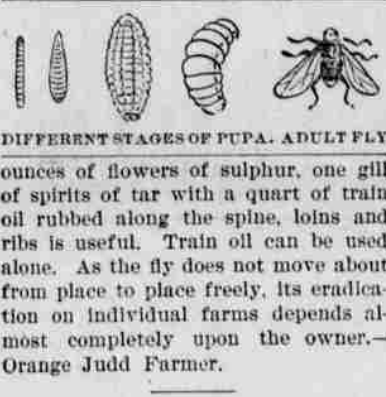
The warble or swelling on the back of cattle is caused by the larva of a fly which attaches its eggs to the hair on the legs, flanks and neck of the animal. These hatch and the larvae establish themselves under the skin, usually on either side of the backbone. Here they feed upon the animal juices until ready to pupate, causing the swelling or warble. When growth is completed the grub leaves the warble, drops to the ground, crawls under the most convenient shelter, such as a piece of board, log, etc., and there transforms into the fly or adult stage. There is a difference of opinion as to how the grub gets under the skin. Some ento-



SECTION OF WARBLE.

mologists claim that the eggs are taken into the stomach by the animals licking themselves, hatch there, adhering to the walls, then the grubs gradually work their way toward the surface, where they remain until fully grown. Others hold that the eggs hatch where they are laid and the young larvae bury themselves at once under the skin. Whatever method is employed the results are the same.

The best way to get rid of the pest is to kill the maggot. This may be done by squeezing them out. Place the thumbs near the base of the swelling and press firmly until the grub is forced out. To prevent the attacks of the fly in summer, a mixture of four

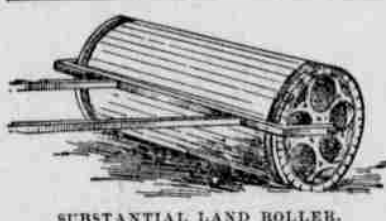


DIFFERENT STAGES OF PUPA. ADULT FLY

ounces of flowers of sulphur, one gill of spirits of tar with a quart of train oil rubbed along the spine, loins and ribs is useful. Train oil can be used alone. As the fly does not move about from place to place freely, its eradication on individual farms depends almost completely upon the owner.—Orange Judd Farmer.

To Destroy Weeds.
The easiest and best way to destroy all kinds of weeds is when they are just beginning to appear above ground, as even a slight stirring of the soil will then seriously cripple them in growth or destroy them. If weeds are permitted to grow, however, they make excellent green material for plowing under, but while they may nearly reach maturity before thus utilized, under no circumstances must they be permitted to produce seed. If no weeds are allowed to scatter seeds it will be but a few years before the farm will be entirely clear of them. It will pay the farmer, however, to keep weeds down by stirring the top soil when the weeds are young.

To Make a Good Roller.
Cast-off mowing machine wheels may be utilized very readily for making a land roller. Use narrow strips of plank with slightly beveled edges, putting them around the wheels in the manner shown in the cut, making slots in the planks to fit the cogs on the rims of the wheels. These strips are held



SUBSTANTIAL LAND ROLLER.

firmly in place by "shrinking on" two iron hoops at the ends, as shown. The frame is attached in the usual manner.—American Agriculturist.

Corn Planting.
Before planting the corn crop be careful to have the land worked as fine as possible. Many farmers are satisfied to plow the corn land, harrow it and plant the seed, trusting to the corn roots to spread and increase, as the corn is a gross feeder, but while corn may thrive under such conditions yet an increased yield over the average can only be obtained when the ground is made as fine as that of a garden, as then the feeding capacity of the roots is increased and a larger available supply of plant food can be obtained.

Potato Experiment.
T. B. Terry, of Ohio, made an interesting experiment with a potato last year. This potato he cut into seventy-four pieces, each piece having one-sixth of an eye. The pieces were planted in seventy-four hills 33 inches apart each way. The land was clover sod, the planting being done late, after a crop of clover had been cut, and the crop suffered from the lack of mois-

ture, but by the time the potatoes had matured the vines covered the ground, and from an exact square rod the yield was over five pecks of large tubers, at the rate of 200 bushels per acre. Mr. Terry does not recommend the use of one-sixth of an eye in planting, but he thinks that one eye to a hill is sufficient; his experiment ought to prove this. He says only potatoes of strong vitality would be capable of making such a yield as this potato made.—Rural Canadian.

Things that Don't Pay.
Keeping too many fowl in too small quarters.

Keeping two or more breeds when you are only posted on one.

To send out inferior stock. Better use the hatchet freely and not kill your reputation.

To dose or doctor fowl in health to keep them healthy. "What fools these mortals be."

To fail to advertise. The man who keeps his name before the public year in and year out gets there.

To visit the shows and tell the people you had better ones at home, and that you can beat the prize winners, etc. If you really think so, just trot them out and let the judges settle the matter.

To breed from pullets where healthy, strong chicks are wanted, or from old cocks with old hens—one just as bad as the other. Better mate a strong yearling cock on 2-year-old hens. This mating pays best.—Kansas Farmer.

Varieties of Corn.

Every year new varieties of seed corn are offered which are claimed will give extraordinary yields. Farmers should hesitate before investing in new seed corn, except with a small quantity for experimental purposes. Corn produces only when the climatic conditions are favorable, and varieties that flourish south of this section may fail when brought North. Frequently, when the frost has appeared late in spring, and delayed planting, an early maturing variety may be required, as an early frost in the fall of the year may destroy a variety that requires plenty of time for maturing its seed. Do not abandon the old and tried varieties until experiment demonstrates that newer kinds are much better.

Which Eggs Are Fertile?

The statement is often made that eggs from old hens are best for hatching. Recent experiments at the Utah station indicate the contrary, so far, at least, as concerns the per cent. of fertile eggs. The comparative size and strength of the chicks is not stated. The percentage of fertility was highest with the early hatched pullets and lowest with the old hens, though the results are not conclusive. The fertility of eggs averaging five days old was 300 per cent. higher than of eggs averaging twenty-two days old.

Holding Up the Wagon Pole.

Where two horses are driven the weight of the wagon pole is often a very considerable factor in making the team tired or fretful. Help the horses all that is possible. Put a light pulley on the pole, as shown in the illustration, and carry a small piece of rope so as to attach to the load in the way suggested whenever it's possible to do so. The best farmers are most thoughtful of the comfort of their animals.

Farm Furrows.

Like seed, like crop. Don't ask the farmer, ask the farm. Thrift is better than a bequest from your old uncle.

Points in Praying.

When to spray apple trees depends on the purposes desired. Use Bordeaux mixture when the buds are swelling, and if canker worms are abundant spray also when the blossoms are about to open. After the blossoms fall spray again with Bordeaux mixture and also paris green, repeating both applications a week or ten days later. In about ten days or two weeks another application may be made of Bordeaux mixture. These remedies or preventives are for scab, bud moth, codling moth, tent caterpillar, curculionid and canker worm.

Early Plants.

Seeds for early plants may be sown in boxes of rich earth and kept in a window of the house where the warmth of the sun will reach them. Flower pots, old fruit cans, small fruit boxes or egg shells are also excellent. For a garden supply nearly all of the early plants can be grown in the windows.

Peaches Without Fuzz.

A Maryland fruit grower has succeeded in raising a crop of peaches with skins as devoid of the annoying fuzz as is an apple. Next year he proposes to raise peaches with a skin that can be removed like that of an orange.—Farmer's Voice.

M'KINLEY'S OFFICIAL FLAG.

It is Made of Scarlet Bunting, Is Thirteen Feet Long, and Eight Hoist. The President now has a field flag. He has always had a naval flag of blue silk, but never one for use as the head of the army. Recently, by order of the Secretary of War, a flag of scarlet bunting was made thirteen feet long and eight feet hoist. In each of the corners is a five-pointed white star and in the center a large white star. In-



PRESIDENT'S OFFICIAL FLAG.

side of this is another, separated by a band of white three inches wide. This inner star is a blue field, on which the coat of arms of the United States is inscribed. There are other stars scattered over the flag, one for every State in the Union. Presidential colors have also been provided of scarlet silk, six and one-half feet fly and four feet on the pole, which is ten feet long. This is surmounted by a globe and an American eagle four inches high.

HEAD OF THE SPANISH NAVY.

Senor Villamil, Commander of Torpedo Fleet, a Great Naval Strategist.

Senor Villamil, the commander of the Spanish torpedo fleet, is one of the great naval strategists of Europe. He is a man of ripe experience, having been in engagements off the coast of

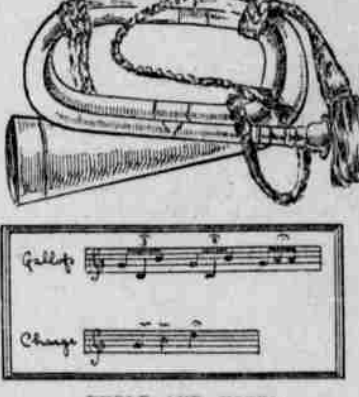


SENOR VILLAMIL.

Chili and in the Philippine Islands. This man is 52 years old. He is of commanding presence, with a deep, sonorous voice and a thunderous accent that can be distinctly heard through the din of battle. He personally commands, and is the only Spaniard who leaves nothing to his lieutenants.

INSPIRED THE SIX HUNDRED.

Bugle that Sounded the Charge "Into the Jaws of Death." Here is the bugle that sounded the "gallop" and the "charge" that sent heroes to death at Balaklava. After the famous battle or sacrifice the regiment wanted to present to the trumpeter a silver duplicate of his



BUGLE AND NOTES.

trumpet, but he preferred the old one. On it was inscribed: "Presented by the Colonel of the Seventeenth Lancers to Trumpet Major Joy, on which the Balaklava charge was sounded, Oct. 25, 1854."

Joy died in 1893, and now the famous bugle is to be sold at auction in London.

Origin of the Bedbug.

Doubtless there are many miserable people in the world who have asked themselves, as well as others where that little torment, the bedbug, comes from. Long ago this insect was known to come from wood, but why it should confine itself to the wooden parts of beds and the framework of old houses was somewhat of a mystery. One day a scientist found a bedbug in the stomach of a woodpecker, which he was engaged in dissecting. Pursuing his investigations further he found that bedbugs are plentiful on pine trees. Pine cones are often infested with them, and it is now the accepted belief that it is from the pine tree that the bedbug gets its origin. It should interest a good many people to know this, though it will not make close acquaintance with the parasite any more agreeable.

Better than Chewing Gum.

Mr. Lea, of Worcestershire sauce fame, left an estate of \$5,350,000; his partner, Perrin, left nearly as much. They began life as druggists in a small way in an English country town.

That Tired Feeling

What does it mean? As tired in the morning as at night, can't get rested, nervous, sleepless, dull, languid. It means that the blood is poor. Muscles cannot be elastic and strong, nerves cannot be steady, energy and vigor cannot be felt when the blood is impure, impoverished, without nourishing power. Hood's Sarsaparilla imparts to the blood the qualities it lacks when that tired feeling troubles you. It makes the blood rich, pure, full of vitality. It cures spring languor and eradicates all foul taints from the blood, thus guarding against future danger from fevers, malaria, and other serious illness. Be sure to get

Hood's Sarsaparilla

America's Greatest Medicine. \$1; six for \$5. Prepared only by C. I. Hood & Co., Lowell, Mass.

Hood's Pills cure Liver Ills; easy to take, easy to operate. 25c.

This Great Country.
We make our own Cuban cigars. We manufacture better news from foreign lands than is to be found there. We raise our own European wines and mineral waters. The finest French sardines in the world come from Maine. The choicest and most expensive of Dresden china is grown in New Jersey. We declare war in more places in a minute than some other countries can declare in three hours and a half. We don't want the earth. We are it. Hurrah!—Truth.

In tropical regions when the moon is at its full objects are distinctly visible several miles away. By starlight only, print can be read with ease.

Directions

in every package of Schilling's Best tea.

Follow them—no matter what tea you use.

Must Wear a Brass Collar.

They had an excellent way of checking excessive drinking in Manitoba. When a man had been twice or thrice convicted of drunkenness he was sentenced to wear a brass collar, which marked him out among his fellows as a person to whom no publican could with impunity serve liquor. The drastic measure often proved a cure. On the authorities being satisfied that the branded individual had served a sufficiently long term of probation he was uncollared and endowed with the liberty of drinks.—London Telegraph.

AN OPEN LETTER TO MOTHERS.

We are asserting in the courts our right to the exclusive use of the word "CASTORIA," and "FITCHER'S CASTORIA," as our Trade Mark. I. Dr. Samuel Pitcher, of Hyannis, Massachusetts, was the originator of "FITCHER'S CASTORIA," the same that has borne and does now bear the fac-simile signature of CHAS. H. FLETCHER on every wrapper. This is the original "FITCHER'S CASTORIA," which has been used in the homes of the mothers of America for over thirty years. Look carefully at the wrapper and see that it is the kind you have always bought, and has the signature of CHAS. H. FLETCHER on the wrapper. No one has authority from me to use my name except The Centaur Company of which Chas. H. Fletcher is President.

March 8, 1899. SAMUEL PITCHER, M.D.

A Paris florist after many experiments is able to grow chrysanthemums with the odor of the rose, and flowers with the perfume of the jasmine, and calla lilies with the scent of the violet.

TRY ALLEN'S FOOT-EASE.

A powder to be shaken into the shoes. At this season your feet feel swollen, nervous, and hot, and get tired easily. If you have smarting feet or tight shoes, try Allen's Foot-Ease. It cools the feet and makes walking easy. Cures swollen and sweating feet, blisters and callous spots. Relieves corns and bunions of all pain and gives rest and comfort. Ten thousand testimonials of cures. Try it today. Sold by all druggists and shoe stores for 25c. Sent by mail for 25c in stamps. Trial package FREE. Address Allen S. Olmsted, Le Roy, New York.

Black rot, the dangerous enemy of grapes, has been treated successfully by sprinkling the green grapes with calcium carbide. M. G. Kodler, a Frenchman, is the discoverer of this remedy.

HOME PRODUCTS AND PURE FOOD.

All Eastern Syrup, so-called, usually very light colored and of heavy body, is made from glucose. "Ten Grades Syrup" is made from Sugar Cane and is strictly pure. It is for sale by first-class grocers, in cans only. Manufactured by the PACIFIC COAST SYRUP CO. A genuine "Ten Grades Syrup" have the manufacturer's name lithographed on every can.

FITS Permanently Cured.

No fits or convulsions after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE, \$2.00 trial bottle and treatise. DR. R. H. KLINE, L.D.S., 530 Arch Street, Philadelphia, Pa.

If we moved our legs proportionately as fast as an ant, it is claimed we could travel nearly 800 miles an hour.

Piso's Cure for Consumption has been a family medicine with us since 1895.—J. R. Madison, 2429 42d Ave., Chicago, Ill.

Just as a letter was being read in a Farmington, Me., household from a daughter in California announcing her good health and well being, a telegram came announcing her death.

PISO'S CURE FOR CONSUMPTION

WHERE ALL ELSE FAILS. Best Cough Syrup, Tastes Good. Use in time. Sold by Druggists.

No Longer an Experiment.

The order for 100 steel cars recently given by the Pennsylvania Railroad Company to the Schoen Pressed Steel Company of Pittsburgh is a good illustration of the fact that the steel car is no longer an experiment but an accepted type of railway rolling stock, says the Engineering News. It is a noticeable fact, however, that a large proportion of the steel cars constructed are designed to carry heavier loads than cars of timber construction. The new Pennsylvania cars, for example, are to carry 110,000 pounds of ore, or 104,000 pounds of coal. Their dead weight will be 37,000 pounds and their length will be 83 feet. The competition of the steel car with the wooden cars of ordinary capacity will not be apparent probably for some time, but that it will come eventually the increasing cost of timber and the decreasing cost of steel construction makes very certain.

Deserters Return.

A curious war item comes from Fort Logan, Colo. On the morning of April 20 a number of deserters from the Seventh Infantry appeared at the fort and surrendered. They said they had heard the rumors of war and were anxious to participate. Col. Benham ordered them to the guardhouse, but it is understood that the stern old warrior will be lenient and give the prodigals an opportunity to fight.

A boy—six years old—in Iowa swallowed several lemon seeds. They sprouted in his stomach and nearly killed him before they were removed.

In the towns of Chile most shops are open till midnight, and during the hot afternoons, when everybody takes a siesta they are locked up.

Certain butterflies have very transparent wings, and these are thought by Haase to be even more effectual for protection than conspicuous "warning" stripes or other markings.

THE DEATH RATE.

While it is quite true that the proportion of deaths from malaria as an immediate cause is proportionally small as cited in annual mortality statistics, yet physicians are thoroughly convinced that it causes maladies of a fatal character, and begets dangerous nervous prostration. This malarial is eradicated and prevented by Hostetter's Stomach Bitters, which also cures biliousness, constipation, rheumatism and dyspepsia.

For Children's Pictures.

An Englishman has designed a neat mounting for children's pictures consisting of a cardboard frame which supports a swing, in which the picture is placed, the latter being cut from the print and mounted on zinc, which is then dressed to represent the child.

\$100 REWARD \$100.

The readers of this paper will be pleased to learn that there is at least one dreaded disease that science has been able to cure in all its stages, and that is Catarrh. Hall's Catarrh Cure is the only positive cure known to the medical fraternity. Catarrh being a constitutional disease, requires a constitutional treatment. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system, thereby destroying the foundation of the disease, and giving the patient strength by building up the constitution and assisting nature in doing its work. The proprietors have so much faith in its curative powers, that they offer One Hundred Dollars for any case that it fails to cure. Send for list of testimonials. Address F. J. CHENEY & CO., Toledo, O. Sold by druggists, 75c. Hall's Family Pills are the best.

The quaint little chimney sweeps add to the picturesqueness of Charleston, N. C., where they are still in constant demand to clean chimneys of the soot from the soft pine wood so largely in use.

Good Health

Is the working capital of humanity. He who loses this is wrecked indeed. In your health failing you, your ambition, vigor, vitality wasting away? When others fail consult

DOCTOR RATCLIFFE,

For the speedy, safe and permanent cure of all Nervous, Chronic and Special diseases, even in their most aggravated forms. There is no man in the world who has effected so many permanent cures in both Men and Women of troubles which other physicians of acknowledged ability had given up as hopeless as this eminent specialist.

NERVOUS DEBILITY and all its attendant ailments of YOUNG, MIDDLE-AGED and OLD MEN. The awful effects of neglected or improperly treated cases, causing drains, weakness of body and brain, dizziness, falling memory, lack of energy and confidence, pains in the loins and kidneys, and many other distressing symptoms, afflicting one for study, business or enjoyment of life. Dr. Ratcliffe can cure you, no matter who or what has failed.

WEAK MEN. He restores lost vigor and vitality to weak men. Organs of the body which have been weakened through disease, overwork, excess or indigestion are renewed to full power, strength and vigor through his own successful system of treatment.

VARICOCELE, hydrocele, swelling and tenderness of the glands treated with untiring success.

SPECIAL DISEASES, inflammation, discharges, etc., which, if neglected or improperly treated, break down the system, cause kidney and bladder diseases, etc.

DISEASES OF WOMEN. Prompt and special attention given to all their many ailments.

WRITE if you are aware of any trouble. **DO NOT DELAY.** Call on me or write me. I cannot call, write him. His valuable book free to all sufferers. **CONSULTATION FREE** and confidential as office or letter.

E. M. RATCLIFFE, 713 First Ave., SEATTLE, WASH.

SYRUP OF FIGS

ONE ENJOYS
Both the method and results when Syrup of Figs is taken; it is pleasant and refreshing to the taste, and acts gently yet promptly on the Kidneys, Liver and Bowels, cleanses the system effectually, dispels colds, headaches and fevers and cures habitual constipation. Syrup of Figs is the only remedy of its kind ever produced, pleasing to the taste and acceptable to the stomach, prompt in its action and truly beneficial in its effects, prepared only from the most healthy and agreeable substances, its many excellent qualities commend it to all and have made it the most popular remedy known.

Syrup of Figs is for sale in 50 cent bottles by all leading druggists. Any reliable druggist who may not have it on hand will procure it promptly for any one who wishes to try it. Do not accept any substitute.

CALIFORNIA FIG SYRUP CO.
SAN FRANCISCO, CAL.
LOUISVILLE, KY. NEW YORK, N.Y.

WHEAT

Make money by successful speculation in Chicago. We buy and sell wheat on margins. Fortunes have been made on a small beginning by trading in futures. Write for full particulars. Best of reference given. Several years' experience on the Chicago Board of Trade, and a thorough knowledge of the business. Send for our free reference book. **DOWNING, HOPKINS & CO.,** Chicago Board of Trade Brokers. Offices in Portland, Oregon and Seattle, Wash.

YOUR LIVER

Is It Wrong? Get It Right. Keep It Right. Moore's Revealed Remedy will do it. Three doses will make you feel better. Get it from your druggist or any wholesale drug house, or from Stewart & Holmes Bros. Co., Seattle.

WILL & FINCK CO'S SPRING EYE GRAIN BAG NEEDLES.....
Plain or with Cutter. The best needle in the market. Used by all sack sewers. For sale by all general merchandise stores, or by

WILL & FINCK CO.,
820 Market Street, San Francisco, Cal.

RODS For tracing and locating Gold or Silver Ore lost or buried treasures. M. D. FOWLER, Box 237, Southington, Conn.

N. F. N. E. No. 89, '98.
When writing to advertisers please mention this paper.

The Beautiful Life of Frances E. Willard

A Splendid Book for the Development of American Patriotism. Written by Anna A. Gordon, for 25 years her private secretary and most intimate friend. Official authorized volume endorsed by the W. C. T. U.

The Most Popular Book of the Century.
Size 2x3 inches, nearly 500 pages, 100 illustrations. Retail price, cloth, \$1.00. Single copies, 50c. Postpaid on receipt of \$1.00. \$1.25.

Solicitors Wanted Everywhere. \$5 to \$10 per day made selling this book. Experience not necessary, most liberal terms, credit given. Fresh paid; circulars and terms free. Write for outfit today.

MONARCH BOOK COMPANY, Dept. 30
General Agents for the United States, England, Canada, Australia, etc. Philadelphia, Pa. Chicago, Ill. Oakland, Cal. Address nearest office.