

The Zoological Press Bulletin

of the Division of Zoology, Pennsylvania Department of Agriculture. Timely Topics of Plants and Pests Discussed Weekly. By H. A. Surface, State Zoologist.

ANT HILLS IN GRASS PLOTS.

The Superintendent of a cemetery in Pottsville wrote to the Pennsylvania State College in regard to the trouble that was being experienced by some of the lot holders in that cemetery through ants building hills on the lots and destroying the grass.

The letter was referred to Prof. Surface, State Zoologist, Harrisburg, who gave the following information:

"You can get rid of these pests with certainty, and very easily, by making holes in the ant hills to a depth of a foot or a foot and one-half, and pouring in a liquid known as carbon bisulfide or bisulfide of carbon. Use about one-half teaspoonful of this to each hill, making the holes two or three feet apart, in accordance with the size of the ant hill and the porosity of the ground. For a heavy clay soil, they must be nearer, but for a light, sandy soil, they can be nearly three feet apart. These holes can be made with a sharpened stick. A broom handle, pointed at the end, will answer the purpose. After the liquid has been poured in, close the holes with earth, and also keep the mound covered with a wet blanket for an hour or two. The carbon bisulfide will not injure vegetation, but it will kill the ants."

CAUSE OF GAPES IN CHICKS.

Prof. H. A. Surface, the State Zoologist, is daily in receipt of letters requesting information in regard to insect pests and the diseases of plant life. These letters come to his office in Harrisburg from every part of the State and are upon many topics. It was not surprising, therefore, that he received one in reference to that common affliction of poultry, known as gapes. The correspondent asked for the best relief for chicks suffering with gapes, and wanted to know how to prevent the trouble.

Prof. Surface replied that "Gapes in little chickens are caused by the eating of earth-worms. There are parasites in the earth-worms which find their way into the windpipe of the chicken and lodge there, where they take the form of little red worms. The best preventive is to keep the chickens from the surface of the ground; or use salt or strong salt water on the soil, so as to kill the earthworms; or strew strong lime or something of the kind on the ground, so that the chicks will not get hold of the worms to eat them.

"After the chicks have been attacked with gapes, however, you can dislodge the worms by making a very small loop in a twisted horse hair, draw out the tongue of the chick slightly, insert the horse hair loop in the windpipe opening, which will be seen between the orks at the base of tongue, and, wisting the hair around, withdraw it. The worms are likely to be found within the loop, or some of them will have been thus removed, and the operation can be repeated.

"Another remedy is to dip the tip of a soft feather into kerosene and insert it in the windpipe opening to dislodge and kill the worms. Such treatment, although severe, is better than letting the worms remain undisturbed, to severely annoy the fowls and even kill them.

"Mixing turpentine or other substances in the food of the young poultry has not proven satisfactory as a remedy for gapes."

GUM OZZING FROM TREES.

The following question, in regard to gum oozing from trees, was referred to Prof. H. A. Surface, State

How's This?

We offer One Hundred Dollars reward for any case of Catarrh that cannot be cured by Hall's Catarrh Cure.

J. CHENEY & CO., Toledo, O. We, the undersigned, have known J. Cheney for the last 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by his firm.

WALDING, KINNAN & MARVIN, Wholesale Druggists Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the food and mucous surfaces of the system. Testimonials sent free, price 75 cents per bottle. Sold by all Druggists.

Take Hall's Family Pills for constipation.

Zoologist, Harrisburg: "I have cherry trees that have bunches of gum. Can you give me a remedy to rid the trees of the trouble?"

ANSWER: The gum oozing from the bark of your trees may be from one of three or four causes. It may be

(1) Mechanical injury, in which case the best thing to do is to clean away the gum and paint the wound with melted grafting wax or bees wax, or even common house paint, and let Nature take care of it.

(2) A fungus disease sometimes called "GUMMOSUS," in which case severe pruning back of trees, cultivation, fertilization of soil and watering are about all that can be done, as the purpose should be to stimulate growth. This can not be reached by spraying, as it is beneath the bark.

(3) Bark Borers or Shot-hole Borers. These are the larvae of very minute beetles that make tunnels beneath the bark and are also called "Engraver Beetles." When they mature they bore through the bark and leave holes about the size of those made by gun shot, or about the size of a pin's head. This is why they are called "Shot-hole Borers." They attack only trees that are declining. There is no way of reaching them in the sense of a remedy, but the best thing to do is to prune back the trees, cultivate the soil, and water abundantly and frequently with water containing a teaspoonful of nitrate of soda in each gallon of water. This is to stimulate growth, and often is successful.

(4) The fourth cause of gum is a larger kind of borer, such as is to be seen in peach and plum trees frequently. This can be killed by inserting a soft wire with a sharp point, or by cutting out with a sharp knife, slitting lengthwise rather than crosswise in the bark; or using the best possible remedy for borers, which consists of a liquid called carbon bisulfide of carbon, put into a spring bottom oil can and injected into the holes they occupy. Close up these holes with mud or clay, and the pests will be killed at once and the tree not injured as it might be by cutting. This remedy is recommended for all borers.

Visiting cards and Wedding invitations at the COLUMBIAN office.

Send for This Free Bulletin.

The Pennsylvania State College has issued a bulletin giving full information about the courses of study offered in the School of Agriculture and Experiment Station. It describes the work required in the seven four years' courses and the two years' course and makes interesting reading for any one who wishes to know the kind of training that is given young men who want to become expert farmers, or teachers, or experimenters. A study of the pages of this bulletin is convincing that the instruction is most practical. A young man fitted for entrance to college usually selects one of the four years' courses. The two years' course is designed for those who want instruction in agriculture but have not time or opportunity to fit themselves for a full college course, or else do not see their way clear to spend four years in college. The two years' course can be taken without any entrance examinations.

Last year the School of Agriculture enrolled 108 men in the freshman class, 55 men in the sophomore, 25 in the junior, and 16 in the senior. The enrollment in the two years' course was 40. Ninety persons entered the winter courses of twelve weeks.

The bulletin is free. It gives the dates for the beginning of all courses, including the winter courses and "farmers' week." Ask for the "May Bulletin," addressing the School of Agriculture and Experiment Station, State College, Pa.

President Brown, of the New York Central Railroad, has been traveling through the West, and has returned with the conviction that the crops will be enormous both in yield and value. He finds the agricultural prosperity of the country amazing. The Iowa farmer is getting \$1.20 for his wheat, 65 cents for his corn and 7 cents for cattle on the hoof. Those of us who live in cities are not quite so enthusiastic over these figures as the Iowa farmer and the railroad president, who is figuring on hauling most of the stuff to market. Still, we are glad the farmer is prosperous, and we know that insures prosperity for the country. But a few years hence the Republican politicians will be referring to the great prosperity of the country in 1909 as the result of the Republican party's revision of the tariff.

Children Cry FOR FLETCHER'S CASTORIA

Woman's Home Companion for August

"Susanna and Sue" begins in the August issue of *Woman's Home Companion*. The scene of the story is laid in a Shaker village, which gives an opportunity for a novel plot. The first instalment promises even greater charm than Mrs. Wiggins' famous earlier books.

Edward Everett Hale's Reminiscences are appearing exclusively in *Woman's Home Companion*. Now that his revered white head and kindly smile have gone forever, these reminiscences, always charming, have an added interest.

Edward Everett Hale's death is a peculiar loss to the *Woman's Home Companion*, to which he has contributed so constantly during the last few years. The August issue is an appreciation of Doctor Hale's life and work has some new anecdotes that are full of the charm of Doctor Hale's personality.

This issue has none of the poverty of many summer magazines. There are eight stories in it—each good and each novel.

The mother of to-day has a problem her grandmother never knew. The modern girl, after many years at school, looks with scorn at the housekeeping which her mother knows is so important. In "What Mothers Can Do" the *Woman's Home Companion* points out a way to make the college girl "the daughter of the house" in the old-fashioned sense.

Marion Harland, in a veritable literary pilgrimage through Europe, has discovered many unpublished stories of famous men and women, which she will tell to *Companion* readers in her delightfully intimate way. The first of the series deals with the ever-interesting Empress Josephine at Malmaison—where she died.

The matter of diet in summer is one fraught with many difficulties. In the *Woman's Home Companion* for August Dr. Woods Hutchinson claims that we are apt to starve ourselves in summer. He says that we suffer from the heat because of bad physical condition and that we would feel the heat less if we ate three good meals a day.

"Suit-Case Photography," "Camp Cooking" and "Washing Fineries" are of special interest right now.

The Children's Department and the Fashion Department are both particularly good. The Embroidery pages are full of summer ideas, and Fannie Merritt Farmer supplies enough ideas for novel cool drinks to last the whole summer.

On The Rigi

The following notice meets the eyes of travellers at a hotel half way up the Rigi:

Misters and voyagers are advertised that, when the sun has risen, a horn will be blown!

This announcement sufficiently prepares tourists for the following entry in the wine-list:

In this hotel the wines leave the traveller nothing to hope for.

—August Lippincott's.

DIVORCE NOTICE.

Freda Rabb Hall vs. Walter Townsend Hall

In the Court of Common Pleas of Columbia County, Pa. Subpaena in divorce. No. 161 May Term, 1909.

To Walter Townsend Hall, Respondent in the above cited case. You are hereby notified, in pursuance of the order of the Court of Common Pleas of the said county of Columbia and State of Pennsylvania, to be and appear in said Court on or before the Fourth Monday of August, 1909, being the 23rd day of said month, to answer petition heretofore preferred by the libellant, Freda Rabb Hall, your wife, and show cause, if any you have, why the said Freda Rabb Hall should not be divorced from the bonds of matrimony entered into with you, agreeably to the Act of Assembly in such case made and provided. Hereof fail not, under the penalty of having the said petition heard and a decree of divorce granted against you in your absence.

CHARLES B. ENT.

Sheriff. Clinton Herring, Attorney. 7-22-09.

CHARTER NOTICE.

In the Court of Common Pleas of Columbia County.

Notice is hereby given that an application will be made to the above named Court on Monday, the 27th day of September, 1909 at 10 a. m., under the Act of Assembly of the Commonwealth of Pennsylvania, entitled "An Act to provide for the Incorporation and Regulation of certain Corporations," approved April 29, 1874, and the supplements thereto, for the Charter of an intended Corporation to be called "Orthodox Catholic Brotherhood of Saint Nicholas of Centralia, Pa.," the character and object of which is to provide funds to assist the members in case of sickness, accidents, or death, and for these purposes to have, possess and enjoy all the rights, benefits and privileges of the said Act of Assembly and its supplements.

The names of the subscribers are Jacob Broda, Andrew Hudick, Michael Onushkewich, Wasyl Oryniak and Demitry Kosack, and others.

The proposed Charter is now on file in the Prothonotary's office.

EDWARD J. FLYNN,

Solicitor, Centralia, Pa. 7-22-09.

PENNSYLVANIA RAILROAD

Bulletin.

FORTY PLAYGROUNDS BY THE SEA.

This is seashore time.

The dog days call to the worker in home, office, and mill and the answer brings up thoughts of the many resorts beside the sea where comfort, recreation, and pleasure alike await the coming of the holiday-maker.

Along the shores of New Jersey from Cape May to Sandy Hook lie forty beaches, each offering delights for outings long or short and each easily accessible by the splendid train service of the Pennsylvania Railroad.

Atlantic City, with its myriad attractions for young and old, needs no introduction, for its charms are known from the Atlantic to the Pacific.

Cape May, for a century the summering place of satisfied thousands of seekers after cool breezes, fine bathing, and the refined amusements of the seaside, is more attractive than ever in its new life.

Ocean City, Wildwood, Sea Isle City, with their smaller neighbors, Anglesea, Holly Beach, Wildwood Crest, Avalon, and Stone Harbor, afford summer pleasure to thousands.

To the north lie Beach Haven, Seaside Park, Island Heights and the other resorts about Barnegat Bay, where the lover of fishing and sailing finds the choicest sport.

Asbury Park, Ocean Grove, Spring Lake, Long Branch, Sea Girt, Point Pleasant, Allenhurst, Elberon, and Belmar on the Upper Coast where the country meets the sea right on the beach, appeal with mighty force to the vacationist.

Any Pennsylvania Railroad Ticket Agent will be glad to give full information regarding excursion rates, time of trains and arrange your outing whether it be for a day, a week or the whole summer.

7-29 21.

The R. E. Hartman Store

Bloomsburg, Pa.

HAS JUST BEEN OPENED

with an entirely new stock, no old goods of any kind. We are starting on new plans. Every person's dollar has the same value here.

No Favoritisms, No Credits.

Your money will buy just what your neighbor gets-- No more, no less. We propose showing all the new things just as soon as they are put on the market, and at prices that will please every buyer.

Come and See Our New Store.

The R. E. Hartman Store

Bloomsburg, Pa.

Alexander Brothers & Co.

—DEALERS IN—

Cigars, Tobacco, Pipes, and Confectionery.

Fine Candies, Fresh Every Week.

PENNY GOODS A SPECIALTY.

HAVE YOU SMOKED A

ROYAL BUCK or JEWEL CIGAR?

ASK YOUR DEALER FOR THEM.

ALEXANDER BROS. & CO., Bloomsburg, Pa.

IF YOU ARE IN NEED OF

Carpets, Rugs, Matting and Draperies, Oil Cloth and Window Curtains

You Will Find a Nice Line at

W. H. BROWER'S

BLOOMSBURG, PENN'A.

Pennsylvania Railroad

PERSONALLY-CONDUCTED EXCURSIONS

TO

NIAGARA FALLS

August 11, 25, Sept. 8, 22, and Oct. 6, 1909

Round-Trip Rate \$7.30 From EAST BLOOMSBURG.

Tickets good going on train leaving 11:45 A. M., connecting with SPECIAL TRAIN of Pullman Parlor Cars, Dining Car, and Day Coaches running via the

PICTURESQUE SUSQUEHANNA VALLEY ROUTE.

Tickets good returning on regular trains within FIFTEEN DAYS, including date of excursion. Stop-off within limit allowed at Buffalo returning.

Illustrated Booklet and full information may be obtained from Ticket Agents J. R. WOOD, Passenger Traffic Manager. GEO. W. BOYD, General Passenger Agent.

6-24-15t