

THE FIGHT WITH INSECT WARRIORS Enormous Losses Caused by Ravages of Grasshoppers. KNOWLEDGE GIVES POWER

To Destroy These Enemies—Life History of Each Species Reveals Its Weak Point.

"Grasshoppers," said Prof. Ball, at the University yesterday, "make fine material for practical instruction in nature study. The pupils in the schools can easily observe their development, let them bring grasshopper eggs in the fall into the school room. Plant a few seeds beside them in spring, and watch the hatching and the doings of the young hoppers. They are tiny things, if permitted to feed on favorite plants, you can almost see them increase in size."

THE WARRIOR SPECIES.

The dreaded Iron Clad of 35 years ago is now extinct; but there are others. One of the worst, the Warrior grasshopper, breeds on the salt marshes, or alkali flats. It caused great damage in Sanpete county a few years ago. It is migratory in habit, and hence to be feared. The eggs are laid just on the edge of the alkaline places, among the salt grass, and are all round, close together in a few areas. The young hatch in early spring, and billions of them march like an army in one direction. They turn aside for nothing, not even for food; and will cut right through an oat field, eating close to the ground that part of it which lies directly in their path, but sparing the remainder on each side. This migratory instinct makes fools of them, for they walk straight on to barren places, when many perish. But when they get wings, they fly in swarms over all the fields, and devour the crops.

DESTROYING THE WARRIORS.

In attempting to destroy the swarming warriors, the state and the counties have paid out thousands of dollars at \$1 per bushel. But had their life history been known, this expense would have been entirely unnecessary. The speaker had investigated the egg areas in Sanpete and Sevier counties and had found that the eggs are laid only on small areas, hundreds to every square inch. These eggs can be destroyed by digging the ground with an harrow in the fall. If the grasshoppers hatch out, kill them with a balloon—a sack with a mouth 12 feet wide, 2 feet high, and 12 feet long, supported on a frame. A man on a horseback gallops over the field dragging the balloon and catching the young hoppers as they rise. Thirty-two tons were thus taken from a four-acre field.

ALPAPPA GRASSHOPPERS.

Native, or lucern grasshoppers, are of two kinds, the legged and the two-striped. The first lays 50; the second, 150 eggs. They lay their eggs in the ditch banks, along fence rows, in waste land, and among poor alfalfa. In the spring, the little hoppers stay where it is driest for a few days and then spread over the fields. They rarely travel more than 40 or 50 rods in their lifetime. Disc the ditch banks and other places, especially the lucern, which will also vastly increase the yield, and you will have very few grasshoppers to catch. If they hatch out, which really should never occur, poison them by sowing broadcast a mixture of 15 pounds of bran and sugar to one pound of arsenic, and three to five pounds of sugar. Mix dry, and do not breathe the dust it is dangerous. Dampen enough to stick the arsenic to the bran, but not make it wet. Let this be done by the farmers and no state bounty will be necessary. If the hoppers spread over the fields, catch them with a machine. A box 10 feet square, 15 feet long, covered with wire mosquito netting, and with a tin front 24 feet high, drawn by a horse at each end, is used for this purpose. At the back are trap doors through which the hoppers are dumped into a ditch or sacked for chicken feed.

THE BLACK CRICKET.

In early days especially, the people of this section suffered from nervousness, indigestion, headache, and other ailments. It was not until the discovery of the black cricket, a tiny insect, that the cause was found. The cricket, which is a harmless-looking creature, makes a good object for indoor observation by children, since it displays curious antics when played with on a smooth table. It is often called a scorpion, though nothing like one, and is quite generally feared and avoided. Scorpions have two body regions, four pairs of legs, the front ones a pair of strong pincers, and a stinging tail. Sand crickets have three body regions, three pairs of legs, and no stinging tail.

A Skin of Beauty is a Joy Forever.

Dr. T. Felix Gouraud's Oriental Cream or Magical Beautifier.

Removes Tan, Pimples, Freckles, and all Skin Diseases. It restores the skin to its natural beauty, and the skin detection. It is a sure remedy for all skin diseases, and is a sure cure for all skin diseases. It is a sure cure for all skin diseases, and is a sure cure for all skin diseases.

Dr. T. Felix Gouraud, Prop., 37 Great Jones Street, New York.

buffered much loss from the black cricket of the mountains. When it becomes too numerous in the hills it migrates to the valleys. Though it destroys the crops, its migratory instinct causes its destruction. Those that migrate never return. They go straight on till they die from lack of food. The host, however, is to be taken in ditches or to stop them by a 16-inch board fence with a curved tin top. It came into Tooele two years ago.

THE SAND CRICKET.

The sand cricket, yellow and black, is a harmless, but formidable-looking creature that makes a good object for indoor observation by children, since it displays curious antics when played with on a smooth table. It is often called a scorpion, though nothing like one, and is quite generally feared and avoided.

CATCHING THE COCKROACH.

The cockroach, a flat insect with close-uppressed feet, crawls through cracks in window sills, since it is scarcely thicker than a piece of brown paper. It is a pest in houses. The cockroach bug is also a cockroach. Housekeepers will wish to know the remedy for it. A greasy dishrag in a granite iron kettle, with a board leaning against the kettle, left standing in the room at night, will entrap the cockroaches. A more thorough remedy is to fumigate with cyanide of potassium—a deadly poison—or to feed them on sugar and borax; but the first method is usually sufficient.

THE SMALL BLACK CRICKETS.

The small black crickets occur in the harvest fields. There are two kinds, not related. One sings in the spring, lays its eggs, and dies; and one that hatches in summer and sings through harvest. No cricket sings all the year.

The snowy tree cricket is the insect that sings in the trees in the fall. It lays eggs in the raspberry canes, and spoils the bush. The walking stick of Utah are small and live in the grass. They are harmless and interesting. Like other insects, it is well adapted by form and color to survive in its environment by its resemblance to the twigs or stalks of grass on which it lives.

PEOPLE GETTING PARTICULAR.

about shoe polish. Quality in shoe polish realized to be an important matter. Acid polishes not wanted. Any old thing won't do with people who know. Quick Shine Shoe Polish is guaranteed to preserve the leather. It does not contain a drop of turpentine or acid. Gives a lasting polish and won't rub off on the clothing. Price 10 cents.

PROTRACTED SESSION TODAY.

Judge Diehl has 41 cases on Police Court docket. Judge Diehl is having a long session this afternoon as there are 41 cases on the docket for the city call. They range from drunkenness to gambling and it will be a late hour before court will adjourn.

STREETS ARE MUDDY.

The warm weather and late heavy thaw have rendered the streets in various parts of the city almost impassable for loaded wagons. This morning three delivery rigs were stuck in the mud on the road just south of the county building, and the regular bar of the street railroad was called upon to pull them out of the mud. Cars were delayed in different places by wagons stuck in the mud while crossing the tracks.

LOOK FOR LEGAL FIGHT IN CONSPIRACY CASE.

Pittsburg, Feb. 25.—From now on a hotly contested legal battle is looked for in the conspiracy suits against Augustus Hartje, the millionaire paper manufacturer, John L. Welshons, his business friend, and Clifford Hooe, a negro formerly employed by the Hartje family as coachman, named as co-respondent in the famous unsuccessful prosecution of the Hartje family. When court adjourned yesterday, the taking of testimony had just begun with Atty. Andrew Fisher, a brother-in-law of Hartje, as the first witness. Fisher testified to having attended a conference at which Hartje, Welshons and Hooe were present. Witness said the negro coachman made a statement about Mrs. Hartje which almost caused her husband to collapse.

FIX SCHEDULE TOMORROW.

Baseball Games in the Big Leagues Will be Arranged in New York.

New York, Feb. 25.—Major league baseball club owners and patrons are particularly interested in the meetings of the big organizations which begin today and will occupy the greater part of this week. Today the national commission, consisting of Pres. Herman of the Cincinnati club and Presidents Johnson and Pulliam of the American and National leagues, respectively, will hold a special session at which many matters of importance are to be discussed. The joint rules committee also meet here today while tomorrow and the two following days will be devoted to the annual schedule meeting, at which the playing dates for the coming season will be announced.

TO PURIFY DISHWATER.

Woman's Municipal League at New York Seeks to Better Conditions. New York, Feb. 25.—The Woman's Municipal League is investigating dishwater. It has been suggested that an organized effort to purify dishwater in New York's hotels and restaurants will be of great value to the city. Mrs. Richard Aldrich, president of the league, believes that many diseases are now contracted through use of dishes in restaurants and other eating places which have not been thoroughly cleaned and which carry disease from one user to another.

ANNUAL REPORT OF PUBLIC LIBRARY President John D. Spencer Submits Document for Consideration of Mayor Bransford. IS IN FINANCIAL STRAITS.

Law Appropriating \$2,000 for Use of Institution Declared Illegal by City Attorney—Figures Given.

President John D. Spencer of the public library has submitted to Mayor Bransford the annual report of that institution. The document contains the following comments on difficulties that the board met during the year past, and which will place the library under rather straightened condition during the present year:

"The new library law, increasing the tax levy to one-third of a mill as a minimum, would have provided for our needs in the immediate future, were it not that we were handicapped by an overdraft arising under the following circumstances: Early in the year (1907) the board of directors of the library applied to the city council for a special appropriation to assist in covering the necessary expenses arising from a recent occupancy of the new building—fuel, engineers' wages, added assistance, etc.—the items of which alone, \$350 for fuel and \$800 for engineers' wages, reduce by \$1,150 the amount available for the purchase of books. The sum of \$2,000 was granted for immediate use by unanimous vote of the council.

"Relying on this addition to the regular library fund, we apportioned the library expenses on that basis, only to find, at the end of the year, that the sum had never been, and apparently could not be, placed to the library account. The representatives having been declared illegal by the city attorney. The payment of the overdraft, which must be met out of this year's appropriation, will, if not early in the year, unless some relief is afforded."

RECEIPTS.

Balance Jan. 1, 1907.	\$5,632.24
Taxes collected during year.	14,388.00
Periodicals.	754.35
Binding.	142.85
Rebinding.	690.10
Stationery and printing.	239.65
Furniture and fixtures.	45.29
Expense.	145.18
Catalogue.	22.50
Collecting city taxes.	275.14
Building maintenance.	758.24
Special furniture fund.	30.96
Total.	\$21,920.38

DISBURSEMENTS.

Salaries.	\$7,678.00
Books.	2,501.41
Periodicals.	754.35
Binding.	142.85
Rebinding.	690.10
Stationery and printing.	239.65
Furniture and fixtures.	45.29
Expense.	145.18
Catalogue.	22.50
Collecting city taxes.	275.14
Building maintenance.	758.24
Special furniture fund.	30.96
Total.	\$13,174.53

LIBRARY STATISTICS.

Following are the statistics as to the number of volumes in the library: On hand Jan. 1, 1907, 29,408; acquired during year, 8,842; lost during year, 827; number Jan. 1, 1908, 31,423. Membership Jan. 1, 1907, 8,278; cards issued during year, 4,842; cards cancelled, 215; gain in membership, 4,824; total membership, 13,292; teachers' cards issued during year, 92; cancelled, 2; gain, 90; total teachers' cards, 230; books loaned for year, 145,178; average daily loans, 478; books loaned in reading rooms, 69,089; daily average, 224; total number of books used during year, 207,267; total number of visitors, estimated, 340,446; average daily, 79. Out of 145,178 books loaned during the year, 76,177 were works of fiction. Juvenile books came next, with 34,744. The next highest class was natural science, with 3,209, with philosophy, religion, sociology, natural science, useful arts, fine arts, geography and travel, biography and German running from 1,154 to 3,209.

ARMY CAR LEADING.

Automobile Bearing Gen. Grant's Message on the Way to Chicago. Laporte, Ind., Feb. 25.—The so-called army car, carrying a message from Gen. Grant in New York to Fort Leavenworth, Kan., reached Michigan City early today and after a short rest for the crew resumed the trip for Chicago. From present indications, it is almost a certainty that the army car will reach Chicago ahead of the American car. The American car lost much time in northern Indiana, particularly after leaving Rolling Prairie, by taking

AN OLD NURSE.

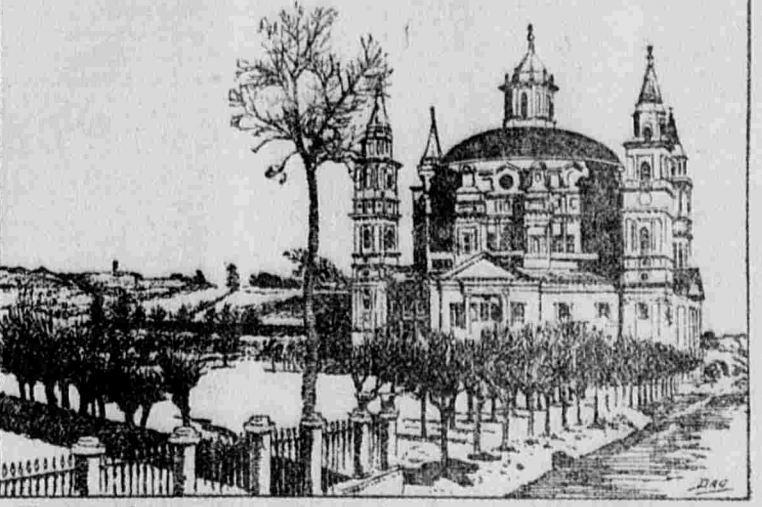
Persuaded Doctor to Drink Postum. An old faithful nurse and an experienced doctor, are a pretty strong combination in favor of Postum, instead of coffee. The doctor said: "I began to drink Postum five years ago on the advice of an old nurse. During an unusually busy winter, between coffee, tea and overwork, I became a victim of insomnia. In a month after beginning Postum, in place of coffee, I could eat anything and sleep as soundly as a baby. In three months I had gained twenty pounds in weight. I now use Postum altogether instead of coffee; even at bedtime with a soda cracker or some other tasty biscuit. Having a little tendency to Diabetes, I use a small quantity of saccharine instead of sugar, to sweeten with. I may add that today tea or coffee are never present in our house and very many patients, on my advice, have adopted Postum as their regular beverage. In conclusion I can assure anyone that as a refreshing, nourishing and nerve-strengthening beverage, there is nothing equal to Postum. There is a reason." Name given by Postum Co., Battle Creek, Mich. Read "The Road to Wellville" in page.

To Cure La Grippe In Three Days.

Mix a half ounce of Virgin Oil of Pine with two ounces of glycerine and a half-pint of good whisky. Shake well and use in teaspoonful doses every four hours.

The necessary ingredients can be secured at small cost from any good drug store, and easily prepared in your own home. The Virgin Oil of Pine is put out for dispensing only in one vial, each being securely sealed in a round wooden case. Rank imitations of Virgin Oil of Pine have been put out to resemble it in name and style of package. These are essentially ineffective, and often cause nausea. Be sure to get the genuine—look for the name—Virgin Oil of Pine compound pure, guaranteed under the Food and Drugs Act, June 30, 1906, Serial No. 451, prepared only by Leach Chemical Co., Cincinnati, O.

PANTHEON OF THE HOUSE OF SAVOY.



The beautiful structure shown in the cut is the old burial place of the house of Savoy. It is at Vico Forte, in Piedmont, and is one of the finest examples of renaissance art in Italy. It is now superseded by the Superga, which has become the pantheon of the royal family of Italy.

roads where snow drifts were practically insurmountable. The Italian car reached Rolling Prairie last midnight and after remaining until 7:30 a. m. this morning, resumed in a drizzling rain. The French car left New Carlisle this morning. The rain is wearing away the snow.

FOR LIEN ON TOMBSTONES.

New Brunswick, N. J., Feb. 25.—Senator Wilson of Atlantic county hopes to have the state legislature pass a bill which will give marble cutters mechanic's liens on tombstones which they may cut. Unless it is paid for the maker of a tombstone will be permitted to go into the cemetery where the stone is erected and remove it and make it over for any use he sees fit.

IMMINENT STRIKE.

RAISES NEW POINTS.

Des Moines, Ia., Feb. 25.—The street controversy between the wage railway employees of Des Moines, and their employers, is approaching a crisis. By the provisions of a previous contract, disputes between the union and the company were to be settled by arbitration. The representatives of both parties having failed to agree on the demand for an increase of 40 per cent presented by the men, yesterday the attorney for the

\$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 now 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. by all Druggists, 75c. Take Hall's Family Pills for constipation.

RALPH WALDO EMERSON.

Those interested in the Interpretations of the great poet by Benjamin Ray Mills can find Emerson's Essays and his other works at the DESERET NEWS BOOK STORE, 6 Main Street.

ANOTHER GREAT BARGAIN!

We are overstocked. On Wednesday, Thursday and Friday, Feb. 26th, 27th and 28th, we will sell for SPOT CASH ONLY, choice California Canned Peaches, put up in pure cane sugar syrup, at \$2.00 per doz. cans. Regular price \$3.00. We guarantee this stock equal to any in the market. MARIOTT'S MARKET, 5 phones. 22-24 W. 1st South.

OLD MAGAZINES.

OLD SONGS.

Every household contains them, but few think of preserving them in neat and convenient shape; you can have them bound in any style, and at any expense you may decide on, at The Deseret News.

Salt Lake Photo and Supply Co.

Kodaks, finishing, framing. 142 S. Main street.

IF YOU DO NOT Possess a FLASK.

—You need one, and if you need one, OURS IS THE PLACE TO FIND JUST WHAT YOU WANT. We always carry a great variety in glass with leather, wicker, nickel or silver. Sizes, shapes and prices to suit the purpose for which you wish to use the article.

SCHRAMM'S.

Where the Cars Stop, The Great Prescription Drug Store.

Little Liver Pills.

Sold by Z. C. M. I. Drug Dept., 114 1/2 Main.

Governor Cutler says that the **STOKER SMOKE AND FUEL SAVING DEVICE** saved \$40 in coal and consumed the smoke at the Constitution Bldg. Dec. 1907.

LEYSON TIME

PHONE 65 for the Correct Time

Leyson

The Cheerful Effect

Given by a blazing fire is worth the price a Mantel costs you to say nothing of the stylish and up-to-date appearance given the room.

Oak and Mahogany Mantels, genuine piano finish, \$55.00 ranging in price from \$20.00. Don't select from a catalogue. You take chances.

ELIAS MORRIS & SONS COMPANY, Opposite south gate Temple Block

The Cosmopolitan Magazine THREE MONTHS

The National Home Journal ONE YEAR

The Farm News ONE YEAR

The Deseret News SIX MONTHS

Daily, or The Saturday or Semi-Weekly News 1 year

CAN all be obtained at the regular subscription price of The Deseret News. This gives the magazines entirely free to our subscribers. Send \$4.50 for six months' subscription to the Daily or \$2.00 for one year's subscription to the Saturday or the Semi-weekly, and the three magazines will be sent to your address, with The News, without extra charge. This offer may be withdrawn at any time, and our friends are urged to take advantage of it promptly.

Hewlett's Three Crown Teas

Are Pure, Good and Delicious, all the time. Leading Tea House of the West.

WHY DON'T YOU TRY THE BITTERS?

and let it prove conclusively its wonderful ability to cure Stomach, Liver, Kidney or Bowel disorders? You'll be surprised and wonder why you did not try it sooner. Thousands of others have been cured during the past 54 years. Therefore get a bottle of the famous

HOSTETTER'S STOMACH BITTERS

today. It cures Poor Appetite, Headache, Flatulency, Dyspepsia, Indigestion, Colds, Grippe and Kidney Ills.

Hamilton's SMART SHOP!

THE ARRIVAL OF OUR SPRING STOCK

has placed us in a position where we can show you a large assortment to make your selections, and as the styles have made such a decided change in cut, trimmings and materials, our stock should be looked over before deciding.

Our Cloth Suits

are more satisfactory this season than any, as the cut is decidedly unique and the materials have that pleasing appearance of spring. SILK SUITS are arriving daily and they are selling as fast as we can get them in. Many are sold before we can place them in stock.

Waists and Neckwear Departments

are receiving their share of patronage. In fact, they have gone far beyond our expectation—to such an extent we had to request our buyers to make new purchases.

Hamilton's

CORRECT DRESS FOR WOMEN.

216 SOUTH MAIN ST.

For Sale! Salt Lake City Coupon Paying Warrants (in \$500 and \$1,000 denominations) bearing 6% interest. Redeemable in ten annual payments. A safe, conservative and paying investment, especially desirable for small investors.

P. J. MORAN

BOARD OF TRADE BUILDING, CITY

Cherry Juice Cough Syrup.

Space doesn't permit of going into detail as to the thousands of dollars expended in experiments leading to final success. Today Cherry Juice Cough Syrup stands in a class by itself. It accomplishes where other remedies fail. Soothing healing and delightful to take, it quickly removes the cause—25c.

THE BUSY CORNER

SMITH DRUG CO. Open All Night. Order Phone 4360.

Nerve Sick

If weak, worn-out, nervous, cannot sleep; have indigestion, headache, neuralgia or periodic pains, it is because your nerves are weak. It is the lack of nerve force that makes the stomach, heart, lungs, etc., work imperfectly—become sick. Dr. Miles' Nerve cures the sick when it restores nerve strength, and puts the power behind the organs to do their work.

"Almost three years I suffered from nervousness, indigestion, headache, and other ailments. I could not eat or sleep without suffering. Altogether I was in a bad condition. My doctor did not seem to do me any good. I had tried many remedies that I did not have any good. Dr. Miles' Nerve was the first that did me any good. I felt my heart and nerves, but I was very grateful for my whole system. I stopped using it. I have had absolutely no return of my old troubles."

MRS. HOWARD FORD, 60 Summit Ave., Worcester, Mass.

Dr. Miles' Nerve is sold by your druggist, who will guarantee that the first bottle will benefit. If it fails, he will refund your money.

Miles Medical Co., Elkhart, Ind.