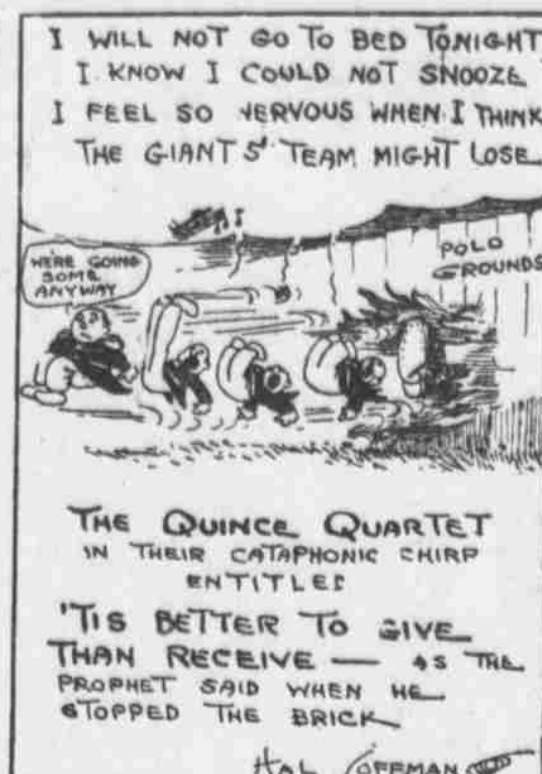


"JUST BEFORE THE BATTLE MOTHER"

By Hal Coffman



SCIENTIFIC FARMING SHOWN

University of Nebraska Has Much Valuable Data to Give Out.

MANY EXPERIMENTS ARE MADE

Instrument for Recording Circulation of Air in Soil is Installed Along with Other Interesting Devices.

O. H. Liebers is in charge of the seed exhibit of the Nebraska Agricultural college at the Land show and is also superintending numerous experiments of a practical nature. The most important of the exhibits to the mind of the farmer who is following closely the modern methods of farming and the results obtained is that showing the value of seed selection.

The university has completed a series of extended experiments into the value of breeding grain. On its space at the Land show is the concrete result of these experiments.

Three stalks of corn are shown. One of them was self-fertilized, the second was "close" fertilized and the third was cross fertilized. The first, so cultivated that only the pollen from its own tassels fell upon the embryo ear, is small and of inferior quality. The second, where pollen of the same variety of corn was the only fertilizer fed to the ear, is likewise of a stunted nature, but the third, fertilized by different varieties of the same species of corn, is a perfect specimen.

To complete this experiment corn was imported from foreign countries having the same climatic conditions as Nebraska and inter-bred with the domestic varieties. The production of the improved variety was increased by twenty-three bushels per acre over the others. This same experiment has been repeated with the other grasses and found to hold good with them as well as with the corn. Turkey wheat was taken 7 years old and developed in the manner in which the corn was produced and the new variety will produce ten bushels more per acre under exactly the same conditions than the variety with which the experiments were begun.

Increasing the Yields. Other experiments carried out for the benefit of the farmers who are searching for a means of profitably intensifying and modernizing their farming, have been completed. Thus it was discovered that Nebraska farmers could secure an average of five bushels to the acre more from early oats than late, and also winter wheat was found to yield a bigger crop, averaging five bushels more to the acre.

Crop rotation has been proven of estimable value to the farmer. The best soil restorers were found to be alfalfa and clover, corn grown on land formerly seeded to either of these crops yielding as abundantly as on virgin soil.

Ideal Soil Conditions. The ideal condition of the soil is reached when it contains seven quarts of water to the cubic foot, or 2 per cent. Experiments are being conducted at the Land show to demonstrate this value and also to establish the idea of the value of different soils.

An instrument for recording the circulation of the air in the soil has been installed, and another for detecting the capillary rise of water in the soil has been placed. It was discovered during the series of experiments for obtaining data on the amount of water needed by plants that when there is less than 15 per cent of water in the earth the plant begins to wither. Clay will retain moisture better than any other soil, loam being next, and sand last in the classification.

The process by which organic matter is lost, something of vital concern to the agriculturist, is demonstrated by means

of instruments which have been used during several years of continuous experiments. Other experiments to prove the value of the various mulches are conducted by the scientist in charge of the exhibit.

The college has exhibits and experiments, covering the department of agricultural botany, entomology animal pathology and husbandry. The diseases of live stock and the treatments for them are illustrated, and the insects which attack the grain fields and the manner in which their attacks ought to be met, are also included in the thorough and interesting exhibits and experiments.

Ad Club Men to Make Merry at Land Show

The Omaha Ad club will make merry at the Land Show Wednesday night, Ad Club night. Invitations have been sent to all members of the club by Dr. Z. D. Clark, requesting that they gather at the Paxton hotel at 7:30 Wednesday evening. Two special cars will take the crowd from there to the Coliseum. A band will accompany the contingent. Arrangements for the program have not been completed yet, but will be announced within a day.

ONE STRIKE BREAKER ENTERS THE LOCAL SHOPS

One strikebreaker was taken into the local shops of the Union Pacific Monday morning. Thirty-six others from the east went through on train No. 19 to the west. All of these were skilled men.

A Break for Liberty from stomach, liver and kidney trouble is made when a 2c box of Dr. King's New Life Pills is bought. For sale by Beaton Drug Co.

BOOKKEEPING ON THE FARM

Commercial College Has a Fine Exhibit at Omaha Land Show.

SEED TESTERS ARE INSTALLED

Information on the Composition of Soils, Effect of Fertilizers and Other Valuable Information to Be Given Away.

The Omaha Commercial college is demonstrating the value of agricultural business at the Land show with a few original exhibits and several new and many tried and proven experiments.

"That farming is a business and should be conducted on modern business principles," is the motto of J. F. Carre, principal of the agricultural department of the commercial college, who is in charge of the school's exhibits at the show.

Mr. Carre has installed seed-testing machines in his booth and is testing the grains brought to the show by exhibitors from Nebraska and other and northwestern states. With the machines used he is able to report on his experiments within the space of two days.

The results of the experiments on an experimental farm of ten acres located near Benson and owned by the agricultural department of the school are being shown in an interesting and easily comprehended manner. Tests are being made of the various grains raised this year and those produced in 1910 and the relative value of the grains for seed will be given out for the benefit of farmers and exhibitors.

Information on the composition of soils, kinds of soils, effect of fertilizers, of crop rotation and the relations of soils to plant life, the study of crops—corn, wheat, oats, rye, barley, flax and the various grasses—the study of horticulture, fruits, vegetables, flowers and the study of animal husbandry and of poultry and bees, will be furnished all applicants at the booth.

A course in the various branches of agriculture, taught by experienced men, of four months is given at the school and all the work is designed to be of practical use to the students.

The course is arranged, according to Mr. Carre, to give the student an idea of the value of "bookkeeping as applied to the farm, arithmetic that can be used by the farmer how to write a good business hand, how to compose a business letter, how to spell, how to advertise the farm, how to write a contract, deed, mortgage, note, check and many other things that must be done to compete with the man who is succeeding."

A Display of Pen Art. Along with the agricultural exhibit the commercial college has placed several specimens of "pen art" on exhibit which have attracted much attention from visitors. The artist is H. S. Blanchard, who is said to be one of the finest penmen in the United States. One of the displays is a pen picture of a lion, a house and their cub. The art critic examining the reproduction can find not a flaw in the work. It looks more like a photograph than a pen production. The picture cost \$1,200 to complete and is valued at just half that by the school. Every shade and line upon it is hand work and required patience and skill that only an artist could command.

"The Conqueror," another pen picture, is an interesting study of a great eagle frantically struggling in the upper air to free itself from the terrible clutch of a poisonous reptile. Other productions, all made by Mr. Blanchard or the students under him, are exhibited in generous numbers, and other exhibits and literature intended to show the value of the study of business and accountancy, shorthand and typewriting, English, telegraphy, banking, civil service and other branches of work fitting the student for

practical vocations complete the equipment of the commercial college booth.

Mabray in Bluffs Before Grand Jury

Attorney General Cossan came to Council Bluffs Monday afternoon accompanied by Colonel J. C. Mabray and immediately took him before the district court grand jury, which is now in session. Postoffice Inspector Swenson, the "Blent Swede," who has been the Nemesis of the Mabray gang, and Postoffice Inspector Ranger of Creston also came to town about the same time, and were likewise witnesses before the grand jury. Obviously the state's attorney and the important witnesses could not tell the exact purposes of their presence here, but it is known to be in connection with forthcoming indictments against men accused of being implicated in the Mabray operations in this city.

MURDER CHARGE FILED IN THE COUNTY COURT

Willie Williams, who is said to have inflicted wounds that resulted in the death of Robert Bentley in South Omaha, September 30, is charged with murder in the first degree in a complaint filed against him in county court Monday. The complaint was filed by County Attorney James F. English.

Williams and Bentley quarreled and a

stabbing affray was the result. Bentley died of his injuries ten days later. Williams was given a preliminary hearing in police court at South Omaha and was discharged. The county attorney's office files the present complaint in the hope that Judge Leslie will hold Williams for trial in the district court.

How a Woman May Retain Her Youth

"The woman who wants to look young must taboo massage creams and liquid rouge. She will only harden the structure of her face and destroy the fine texture of the skin," said Mrs. Margaret Holmes Bates, the well-known author, to a Chicago Journal representative. "Reputable physicians have declared that if she indulges in artificial methods she risks losing her health," she continued. A perfectly natural method of treating a bad complexion is by using ordinary mercurized wax, as this adds nothing to the complexion, but removes the latter instead. This wax, obtainable at any drug store, flakes off the scallow or blotchy outer skin in fine particles, gently, without harming the skin beneath, which gradually makes its appearance. The brilliantly beautiful complexion thus obtained is a new one—quite different from a patched-up old complexion. This is one way to retain youthful looks.—Adv.

Avoid It Leave this tremendous alcohol question to your doctor. The danger is too great for you to decide alone. Ayer's Sarsaparilla is a tonic, entirely free from alcohol. Take it or not, as your doctor directs.

FARMING IN THE UNION PACIFIC COUNTRY

yields large crops of every product adapted to that section.

A few acres of this western land is often sufficient to raise crops enough to occupy the entire time of one man--the profits received from small tracts are almost beyond belief.

Be sure to see products displayed in the booths of the states served by the

UNION PACIFIC

STANDARD ROAD OF THE WEST

Nebraska, Kansas, Colorado, Wyoming, Utah, Idaho, California, Oregon and Washington, all of which will be represented at the

OMAHA LAND SHOW

OCTOBER 16 to 28, COLISEUM, OMAHA.

LECTURE BY WILLIAM BRUCE LEFFINGWELL

AUTHOR, LECTURER AND TRAVELER.

This evening at 9:00 o'clock, William Bruce Leffingwell, with the aid of beautifully colored stereopticon views and motion pictures, will deliver his lecture on Yosemite National Park in Lecture Hall A. Be sure to attend.