

SCIENCE SHOWS FARMER'S ENEMY

ADVANCE IN THE PRODUCTIVE VALUE OF LANDS EXPECTED TO FOLLOW.

Wapello county farmers, those of all Iowa and the entire nation will be keenly interested in knowing that their most active foe has been located. Two British scientists have announced the discovery that loss of fertility often can be traced to a microscopic organism, hence it is believed a plan can be devised for checking its development and that the depletion of much valuable soil can be prevented.

Announcement of the discovery was made by Drs. E. J. Russell and H. B. Hutchinson at Sheffield during the sessions of the British Association for the Advancement of Science. These scientists described work they had been doing at Rothamsted experimental station, where they found evidence of the battles for mastery waged between minute organisms. They were not able to isolate the active principle on account of the difficulty of having an opaque substance, like earth, under the microscope.

About half a century has passed since German scientists found that in the roots of certain plants were friendly bacteria that aided the farmer by adding nitrogen to the soil. It has been known that whatever increases the activity of these bacteria benefits the soil, but sometimes there would be a loss that defied ordinary explanations. Fertility depends directly upon the efficiency of the bacteria that are working for the farmer's interests, as these small organisms prepare the food that is used in the growth of many crops, much as other bacteria transform sewage.

Heat Often a Remedy. According to some estimates the farmers never recover in crops more than half of the nitrogen put into the soil as fertilizer. The waste is ascribed to lack of efficiency on the part of the bacteria, the energies of which have been expended in struggles with hostile organisms.

Dr. Russell said that partial sterilization of the soil by heat or treatment with volatile antiseptics, such as toluene, caused a notable increase in productivity and that much more plant food was formed by the bacteria. By means of several tests it was found that this increased activity was not due to heightened vigor on the part of the bacteria, but to an improvement of the environment. It was found that untreated soil contained some injurious factor that was not washed out by water and that was also in making its influence felt. In untreated soil the scientists found from 6,000,000 to 8,000,000 bacteria in each grain. In treated soil the number reached 60,000,000.

These investigations led to the conclusion that there is a hostile organism in the soil that is larger than the bacteria and that it is not easily reached from its surroundings. Several larger organisms were found in the soil and at least one of them showed ability to destroy bacteria.

Oldest of All Stations. Rothamsted, where the discovery was made, is the oldest and most famous of all agricultural experimental stations. At this farm scientific records have been kept since 1843, some of the work dating back as far as 1839. The farm was established by Sir John Bennet Lawes, whose chief aid in the work for more than half a century was Sir Joseph Henry Gilbert.

The founder of the station divided his estate into several fields, which were farmed according to established custom and the results were studied scientifically in order to find out exactly how much fertility was gained, or lost. The history of this work coincides with that of the development of scientific agriculture. Numerous theories had been announced by scientists who were studying plant life, but nature's verdict was lacking, hence the tests in the Rothamsted fields were decided upon.

Many of the experiments dealt with the relation of nitrogen to agriculture. Liebig, the noted German scientist, asserted that if a plant were supplied with the mineral constituents which later appear as ash when it is burnt, it will need no further assistance as regards fertilizer, as it can draw its carbon and nitrogen from the atmosphere. The men at Rothamsted did not accept this theory, but they determined to find out the truth by actual tests.

Beans Show Theory Correct. While the tests were going on other scientists found out that Liebig's theory was correct in regard to certain crops, such as beans, alfalfa, etc. On the roots of certain plants were found nodules in which were bacteria that did the work of transforming nitrogen to useful purposes in the fields. This theory was tested at Rothamsted and was verified. Since then numerous other theories have been developed, many of which cannot stand in the light of the present discovery.

On one of the fields at Rothamsted which has been grown continuously since 1844. On another wheat is grown one year and the ground lies fallow the next, a practice similar to that now common in some of the western states. A third field has been devoted to barley since 1851. In addition there have been experiments in rotations of crops, with potatoes and with hay.

One of the interesting discoveries is that it is possible to grow a cereal crop, such as wheat, year after year, provided a suitable manure is used to replace the nitrogen, phosphoric acid, and potash removed by the crops. By carefully keeping up the soil in this manner wheat has been grown stand-

MAN MURDERER AT WATERLOO

SAM GRACO, ACCUSED OF SLAYING TONY BYEO, IN BLACK-HAND PLOT.

Waterloo, Oct. 25.—(Special).—Leaping out of bed in a boarding car in the Illinois Central yards, Sam Graco and Tony Byeo yesterday rushed upon each other and fatally shot him in the neck. The bullet shattered Graco's left hand, as he held the gun close to Byeo's neck. The eight occupants of the car were arrested. Graco, immediately after the shooting, rushed to the police station and told the police that he had been attacked and shot in the hand. Byeo was hurried to the hospital where he died shortly after. The police believe it is the work of black handers. A note was found in Byeo's pockets addressed to his wife in Sicily, saying that he expected an attack of some kind. He had \$120 on his person.

NEW HEAD IS INSTALLED.

Sioux City, Oct. 21.—With impressive ceremony in which men prominent in the state, church and educational world participated, Rev. Luther Freeman, D. D., today was formally installed as president of Morningside college. Governor B. F. Carroll and Bishops Neulsen and McDowell were among the leading figures at the exercises and the banquet that followed. Dr. Freeman came here in June, 1909, to succeed Dr. Wilson Lewis as head of the local Methodist college, when Dr. Lewis was made a Methodist bishop. Dr. Freeman was born in Essex, Vt., in 1858. He was graduated from Williams college in 1887 and entered the Methodist ministry. He had many pastorates in Massachusetts. His last ministerial service was in Kansas City, where he was pastor of the Independence Avenue Methodist church when called to the presidency of Morningside. The college, which now has an endowment of more than \$500,000, is prospering under the direction of Dr. Freeman.

EDDYVILLE.

Dr. and Mrs. F. E. Vance left yesterday morning for Chicago. They expect to be gone about a week.

Mr. and Mrs. Frank Epperson and Mr. and Mrs. H. E. Dyke left Monday night for a trip through Montana.

Mrs. Roy Udey and children and Miss Goldie Spurgeon went to Grinnell Monday to visit Mrs. Harry Adams for a week.

There will be a mother's meeting at the school house Friday afternoon. Mrs. Mitchell of Des Moines will be present to address the mothers. In the evening Mrs. Mitchell will give a lecture in the M. E. church.

Wm. Heston went to Fairfield on Monday where he has accepted a position. The family will move from Eddyville to Fairfield this week.

Mr. and Mrs. John Evans who have been living in the Kussart property are moving to Lakota.

B. Harding who has been in a sanitarium near Iowa City is expected home this week.

Mr. and Mrs. Archie Gray, Mr. and Mrs. Arnold Johnson and Mr. and Mrs. Frank Johnson went to Ottumwa. The telephone company is putting in a new switch board this week.

Mrs. A. W. Riggs left yesterday for Kansas to spend the winter with her niece.

Mr. and Mrs. G. W. Stevens have been visiting their friends in the Dudley district.

Mr. and Mrs. J. B. Kitterman of Chillicothe are visiting their son Henry Kitterman and wife.

Dan Hamilton spoke at the opera house here Tuesday.

BLOOMFIELD.

Mrs. P. A. Johnson, who has been visiting at the Jack Noble home for five weeks has returned to her home in Chillicothe.

J. L. Tillotson and daughter of Hayes, Kans., left Thursday for their home after visiting relatives in Bloomfield.

Mrs. Nerva Lister of Stiles went to Ottumwa Thursday to visit with Mrs. Tom Caswell.

Mrs. E. C. Wilson has returned to her home in Prairie City after visiting her mother at Chillicothe.

Miss Trilby Dunlavy, daughter of J. A. Dunlavy left and broke her arm last Friday.

Miss Virgie Beadle who teaches at Eddyville spent Sunday at her home here.

Mrs. Jennie England and Mrs. Luella Brown of Ottumwa visited relatives in Bloomfield over Sunday.

FREMONT SCHOOL OPENS MONDAY

REPORT OF SCARLET FEVER CASES EXAGGERATED IN REPORTS SENT OUT.

Fremont, Oct. 22.—This town has had considerable free advertising the past ten days over the country. A Chicago paper recently stated that there were forty cases of scarlet fever reported to the health authorities and the state papers had the number from thirty to one hundred. The facts in the case are that scarletina has been prevalent here for more than six months without quarantine. Walter Priest, a young man of eighteen years, was taken sick with scarlet fever and died within three days, the only case of scarlet fever here. This occurred on October 10. The board of health immediately quarantined the five cases of scarletina then in Fremont, ordered the schools dismissed for two weeks and placed a ban upon any public gatherings. Since that time no new cases have developed. School will open on Monday, the building having been thoroughly disinfected. The churches held no services and the edifices have been taken through the fumigating process. The disease has been in a very mild form and several who have been afflicted with it have not been sick enough to be confined to their homes.

The consequence of the exaggerated reports is that business here has been paralyzed since Oct. 10. People became frightened and refused to come to town to do their trading. The disease has been practically stamped out and no new cases are looked for by the doctors. School will open as usual on Monday and no parent need feel afraid to send their children, as the building has been thoroughly disinfected.

FUNERALS.

The last sad rites over the remains of Leroy Trimble, who committed suicide yesterday at his home 1514 West Second street, will be held this evening at the residence of Mrs. J. C. Rev. S. Isaac Elder, pastor of the Davis Street Christian church will conduct the services. The remains will be taken over the Rock Island tomorrow morning to Keosauqua where interment will be made in the Keosauqua cemetery.

The funeral services over the remains of Mrs. Nancy Wheaton who passed away suddenly Monday at her home in Agency will be held tomorrow afternoon at 2 o'clock from the residence, Rev. E. G. Hankins of the M. E. church at Agency will conduct the funeral. Interment will be made in the Agency cemetery.

FOSTER.

John Terry was a business caller in Albia Saturday.

Erick Erickson of Albia was a caller at the home of Mrs. J. C. Rev. Oscar Carlson moved to Albia Monday where he will make his future home.

Mrs. Ralph Kimberlin is very ill, suffering from typhoid fever.

Clarence the oldest son of Chas. Paist is critically ill with typhoid fever.

Thomas Sincow came near being killed by being struck on the left side by an engine in the yards in West Ottumwa last Monday night. He will not be able to work for some time.

Miss Jennie Robinson of Blakesburg visited her mother Mrs. Mary J. Robinson here Sunday.

Miss Mary Hartsuck, a professional nurse from Albia is taking care of Mrs. Ralph Kimberlin during her sickness.

Theron Hoadly and Frank Sincow who work at Rutledge spent Sunday here with their families.

Miss Anna Mahon, principal of the school here spent Saturday and Sunday with friends in Albia.

David Lewis, Ed Newton and Grant Sincow are prospecting for coal on the Benson farm southwest of town.

Russell Sincow moved to Bear Creek Monday and will make his future home there. He is working in the mines.

OLIVET.

Rev. Martin of Bussy filled his first appointment in the M. P. church on Sunday.

The Diamond Block Coal Co. of this place closed a contract to build 20 four room houses for the miners here.

Mr. and Mrs. J. M. Ball of Oskaloosa were callers in town Thursday.

Mrs. W. B. Rogers and son of Des Moines were in town Thursday calling on old friends.

Mrs. Denney Robertson north of town and her sister Mrs. William Fulmer of Eddyville were callers at the home of Mr. and Mrs. R. Williams on Thursday.

Mr. and Mrs. John Dolan are spending the week at the home of their daughter Mrs. Ted Corryell at Wright. James Johnson of Des Moines was in town Wednesday on business.

REV. LUCY CARTER GOES TO KANSAS

FORMER EDDYVILLE WOMAN PREACHER TO FILL PULPIT AT BURLINGTON.

Eddyville, Oct. 22.—Mrs. Lucy Whittier Carter, formerly pastor of the Congregational church here has accepted a call to become pastor of the Congregational church at Burlington, Kansas, at a salary of \$1,000. She will begin her work at once. This is the first time any Burlington church ever had a woman pastor.

Mrs. Carter preached there two Sundays and made such a favorable impression that she overcame a decided prejudice on the part of many against a woman preacher.

SOCIETY ELECTS SCANNELL.

Muscatine Boy is Honored by University Colleagues by an Appointment. Iowa City, Oct. 22.—Joseph B. Scannell, a popular Muscatine boy, now at S. U. L. has been honored by the Newman society of the university, by election to the post of delegate to the national convention to the Catholic associations of America, which will convene in Minneapolis, on Nov. 17. The C. D. U. (Catholic Daughters of the university) have named Miss Willarene Johnson of Cedar Rapids, to fill a similar position.

MARKETS—FIVE HEAVY HOGS.

C. B. Holland of Sciola Raises Five Which Average 520 Pounds.

Sciola, Oct. 22.—C. B. Holland holds the record in this locality for heavy hogs. He marketed five head of hogs in Villisca, Monday, which averaged 520 pounds. He received \$7.50 per hundred this making each sow bring \$39.52 and the five head \$197.60.

SUES BURLINGTON ROAD.

Mrs. Frances Taylor Asks \$2,000 Damages for Permanent Injuries. Feb. 4, 1909.

Ft. Madison, Oct. 22.—Miss Frances Taylor of this city, brought suit against the C. & Q. railroad for \$2,000 damages for injuries received in an accident at La Grange, Mo., on the 4th of last February. The petition on file here states that the plaintiff was a passenger on one of the defendant's trains from Quincy, Ill., to La Grange, Mo., but after the station has been called, the train stopped and while the plaintiff was in the act of descending from the steps from the platform of the car, the defendant carelessly and negligently failed to have a brakeman, porter, or other persons at the steps to assist the plaintiff to alight; that as the train started and she was thrown off the brakeman ran to the steps and jerked the plaintiff.

"Jerked by reason, etc." she was permanently injured in the left knee and hip, also in the back and shoulders and very badly bruised; that she has been unable to perform any labor since the injury and probably never will be able to work again and that she has suffered a great deal of pain therefrom and by reason of which she demands damages.

As announced by a decision by Judge Deemer of the supreme court, Judge Anderson of Albia, will preside here at this term. Judge Smith of Burlington will go to Keokuk for the November term.

BRADLEY'S PURCHASE BANK.

Centerville Capitalist Now Own the Farmers State Bank of Promise City.

Centerville, Oct. 22.—The rumor circulated recently of the purchase of the Farmers' state bank at Promise City by J. A. and D. C. Bradley is found to be true, the deal having been closed the last few days which made J. A. and D. C. owners of an interest in the Promise City bank.

N. A. Robinson has resigned as cashier and director and D. C. Bradley has been elected as director to fill his place. Henry Chrisman, county clerk of Wayne county, has been chosen as cashier and will take up his duties immediately.

J. A. and D. C. Bradley have bank interests scattered over all southern Iowa, and Promise City now has two banks owned by them.

GRINNELL.

The visit of Mrs. B. F. Carroll, wife of the governor, to Grinnell yesterday was the most important social event of the college week. Mrs. Carroll spent the day as the guest of Mrs. Phillips, dean of women, addressed the young women of Grinnell informally at the Y. W. C. A. in the afternoon and figured as the guest of honor at a reception to the ladies of the faculty in the evening.

President J. H. Maize is in attendance upon the national council of Congregational churches at Boston this week. Mr. Main is president of the National Congregational Brotherhood, which is the youngest but one of the strongest organizations of the church, and while in the East will also attend the Centennial anniversary of the American Board of Foreign Missions.

Miss Caroline Sheldon, assistant professor of modern languages, is spending the week end with friends in Des Moines.

A Tuesday mass meeting was held on Wednesday evening by the students, to arouse spirit for the support of the football team. The meeting resulted in a large number of new candidates appearing on the field.

Ralph L. Harrison of Ottumwa, is making good at his position of guard on the variety football team and bids fair to make a very valuable man as that place.

The M. C. A. meeting was led on Thursday night by Rev. Ella Handy of the First Methodist church.

MORGAN GIVES CHURCH \$100,000

FINANCIER STARTS FUND FOR WORLD CONFERENCE ON UNITY.

Cincinnati, O., Oct. 22.—A gift of \$100,000 to the campaign fund for the world's conference on church unity by J. P. Morgan served as a fitting ending yesterday afternoon to the greatest convention in the history of the Protestant Episcopal church.

Mr. Morgan was named as treasurer of the movement to raise funds required to bring about what is hoped to be the greatest conference of Christian churches throughout the universe ever held. Right Rev. Charles P. Anderson, bishop of Chicago, was chosen as president.

Shortly before leaving for the east, after the convention adjourned, Mr. Morgan made the official announcement that he had started the fund with a gift of a tenth of a million dollars.

Million for Y. M. C. A. Washington, D. C., October 22.—Contributions of \$1,000,000 for a world-wide expansion of the Young Men's Christian association, \$450,000 of which was given by John D. Rockefeller, were announced at a conference of Young Men's Christian association workers in the east room of the white house.

DEATHS.

EGAN—Thursday, October 20, 1910. Mrs. Ellen Egan, aged 80 years, after a serious illness of a week, although the decedent has been ill for the past four months. Death occurred at 4:30 p. m. Mrs. Egan was born in Ireland and had resided in Ottumwa for the past twenty-nine years.

She is survived by two sons and two daughters, William and Michael Egan of Ottumwa and Mrs. Isabel Smith of Ottumwa and Mrs. Kate Palmer of Buffalo Gap, S. D. The funeral will be held Saturday from the residence, 708 West Main street to St. Mary's church where at 9 a. m., a requiem mass will be celebrated by Very Rev. F. W. Hoppman. Interment will be in Calvary cemetery.

D. H. Bell and daughter Cora left on Thursday evening for Hamburg to visit the J. H. Easley family. They expect to be gone about two weeks.

Mrs. T. D. Munn expects to leave for Chicago to visit her sister Mrs. B. J. Crandall for a week or ten days.

Mrs. J. T. Munn while canning apples Thursday evening lost her eyesight. It is thought the heat of the fire affected the nerves. Her eyesight has partially returned so that she can see a short distance from her.

Mr. and Mrs. John Tomy and daughter Lillie of Bloomfield spent Sunday with Mrs. Elmina Morris. Miss Lillie remained over night, returning home the next morning.

Mrs. Grace Comer and children left for their new home in Ottumwa.

Mr. Little and wife of Bloomfield spent Sunday with Dr. S. Zeigler and family.

The Misses Ella and Anna Diggs of north of Drakesville were guests on Tuesday of Mrs. D. M. Munn.

R. H. Kneidler and son Earl are still very ill. Miss Olive is some better.

Mr. and Mrs. J. B. Painter are preparing to move to the Mrs. G. D. Conner property.

Miss Mabel Middleton spent Sunday evening with Miss Lola Wilson of Dunville.

Mr. Altheide filled her appointment Sunday evening at the Congregational church.

Rev. Smith announced Sunday that he would like to have a series of lectures during this winter at the M. E. church. He also stated that he expected a gospel team from Mt. Pleasant to assist here in the holidays in a revival meeting.

Mr. and Mrs. I. Ware were given a pleasant surprise last Tuesday evening by their neighbors and friends coming in to spend the evening with them.

On Thursday evening a large number of Mrs. Oss Dunkley's neighbors and friends gathered there in honor of her birthday.

Barnett Dodd and brother Alvah of Niwat, Colo., are visiting here with their mother Mrs. Elizabeth Dodd.

Mr. and Mrs. Geo. Rambo of Glenwood, Mo., visited recently at Dr. D. T. Rambo's.

Mrs. Mary Jenkins returned Wednesday from a visit in Council Bluffs.

Mrs. James Manning of Rose Hill is visiting at the parental stump home.

CHILLICOTHE.

Mr. and Mrs. Loren Allen and son and Mrs. Warren of Ottumwa visited Sunday with Mr. and Mrs. A. Conwell.

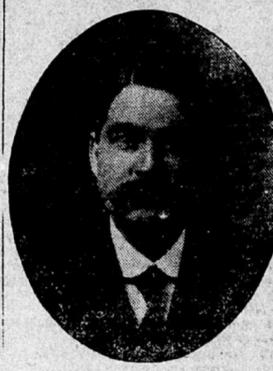
E. L. Peterson went to Hedrick on Saturday on business.

There is yet time to fit the old wagon with a set of low steel wheels and make a "Handy" wagon of it or I have the "Handy" wagons with steel wheels complete. Extra wagon boxes from the poorest quality to the best quality and I sell them for just what they are. See me if you need wheels, wagons or extra box. JAMES H. SHEPHERD, "New Shepherd's Ranch." Old Phone 251-Red New Phone 664. No. 209-211, West Main Street. Ottumwa, Iowa.

We Have a Corn Husker and Picker This is a machine we want every farmer to see. It is guaranteed to do the work entirely satisfactory. You should make it a point, when in town to visit our store. Wilson Carriage Co. New Masonic Bldg., 110 W. Second

Luther L. Swenson is The Right Man For The Office of County Recorder

Luther L. Swenson, county recorder, candidate for re-election, is a native of Wapello county. He was born in this county, December 14, 1868, the son of Mr. and Mrs. Perry Swenson, now of Red Oak. At the age of four years Mr. Swenson moved with his parents to the western part of the state and resided four years on a farm near Red Oak.



L. L. SWENSON.

There he also taught a district school for one year and later entered the marble business in Red Oak which he conducted for five years. In 1892 he returned to this county and lived on a Polk township farm until 1905, at which time he came to Ottumwa, at a call of his party to fill the office of county recorder, which duties he assumed January 1, 1905. He is engaged in no other business. Mr. Swenson cast his first presidential vote in 1892 for Benjamin Harrison, and has been a staunch republican since.

The splendid condition of the county records at this time speaks eloquently for the present incumbent's service in office and will have great weight with the voters of this year, regardless of party sentiments. One notable incident connected with Mr. Swenson's career is that he was one of

the county republican candidates who won in the democratic landslide at the last county election.

Harry Cremer is a Valuable Man to Have in The County Sheriff's Office

The voters of Wapello county again this year will have an opportunity of casting their votes for a republican candidate who has been in the harness and proved himself a most satisfactory officer. That candidate is J. H. Cremer, better known as Harry Cremer, who is the republican candidate for the office of sheriff. Harry Cremer is known throughout the county as one of the best sheriffs ever elected to office, and he comes before the voters this fall giving the assurance that the duties of the office will be carefully looked after and satisfactorily administered in the event of his success.



J. H. CREMER.

Harry Cremer is the son of D. P. Cremer and was born in Wapello county, ten miles east of Ottumwa. He has since been a continuous resident of this county. He lived on a farm until thirty years ago, throughout which time he was active in stock raising and shipping business. He left the farm and went to railroad in the capacity of fireman, and resigned from that position after three years of service, when he was appointed marshal of Eldon. From that office he was elected to the post of sheriff of Wapello county and held the office two terms. After leaving the wholesale and retail flour and feed business, which his suc-

cessor, George T. Reeves, is now conducting. Mr. Cremer has always been an ardent supporter of the republican doctrines, which is a characteristic of the Cremer name. He has been a taxpayer for twenty-five years. He lives with his family at 722 West Second street.

George A. Wilson is Party's Choice For Office of Auditor of The County

George A. Wilson, candidate for the office of county auditor on the republican ticket, is a son of the late John M. Wilson, a prominent Wapello county farmer who resided north of the city for many years. George A. Wilson has lived in Wapello county since 1866. He served as steward of the county farm for twelve years. He was born April 4, 1856, attended the country schools and graduated from the Ottumwa Commercial college. He is connected with the firm of Wilson & Bowlin in the real estate business, and is a member of the A. F. & A. M. No. 16 as well as of the I. O. O. F. No. 9 and other fraternal organizations. Mr. Wilson's family consists of a wife and three children, and he says he is a republican farmer.



GEORGE A. WILSON.

George Wilson comes before the voters of Wapello county this fall with a splendid record. During his administration as steward of the Wapello county farm he gave eminent satisfaction, and he promises to give the same splendid service to the county if elected as county auditor.

Ed Nye and family of Ottumwa spent Sunday with Mr. and Mrs. Chas. Allen.

J. H. Waddington is spending a few days in Des Moines with his brother.

Mrs. E. G. Clifford and sons Leonard and Robert of Oneida, Ill., spent a few days of last week at the home of Myrtle Jenkins.

Monday being Mrs. S. M. Bailey's birthday her many friends gave her a post card shower.