

Love will draw the world to you and surround you with an atmosphere of happiness and success. Every hard thought gives birth to a singing serpent in your own heart.

The cashing in of the emotions in any form plays smash with the sincerity of any subsequent emotion on the part of the vender.

Yes, a magic vase is that which overflows with what is dropped into it. And that magic vase is no fanciful conception.

Drinking Barley Water.

Now that grown-ups as well as babies drink chilled barley water during the warm weather, every one is learning how to make it.

It is supposed to be better than lemonade and has excellent tonic properties. It is recommended by all doctors for those whose stomachs are not very strong through the summer season.

A good way to make it is as follows: Put a scant cupful of barley in an earthen vessel and cover with two or three quarts of boiling water. When cold, strain and add lemon juice. It should be kept on ice in order that it may be chilled. This is better than serving it with cracked ice in a glass.

It's funny where some folks get their rep for disdom. For instance, Solomon is said to have had a thousand wives.

By lifting the burdens of others we lighten our own. By making others happy we bring happiness to ourselves.

Laundry work at home would be much more satisfactory if the right Starch were used. In order to get the desired stiffness, it is usually necessary to use so much starch that the beauty and fineness of the fabric is hidden behind a paste of varying thickness, which not only destroys the appearance, but also affects the wearing quality of the goods. This trouble can be entirely overcome by using Defiance Starch, as it can be applied much more thinly because of its greater strength than other makes.

Some women get red in the face because of innate modesty; some get furiously red, because of their quick tempers; some women get beautifully red in the face because of the beauty doctor.

With a smooth iron and Defiance Starch, you can launder your shirt-waist just as well at home as the steam laundry can; it will have the proper stiffness and finish, there will be less wear and tear of the goods, and it will be a positive pleasure to use a Starch that does not stick to the iron.

If you drop in love, it overflows love. If you drop in charity, it overflows charity. Drop in envy and jealousy and hate, and it will overflow these things into your own life.

To praise a good action is to participate in its repetition.

HERE IN OMAHA IN OUR OWN SHOP

We grind our own invisible bifocal lenses. There is no cement to flake or ugly lines to blur the vision. One solid piece of glass. Ask to see them. Free examination.

HUTESON OPTICAL CO.
Exclusive Opticians, 213 South 16th St., Omaha, Nebraska. Factory on premises. Wholesale and Retail.

Omaha Directory

THERE ARE THREE REASONS WHY YOU SHOULD ATTEND THE

MOSHER-LAMPMAN BUSINESS COLLEGE

It has the BEST course of study; the MOST CAPABLE and experienced teachers, and although its tuition rates are the same as those charged by other Business Colleges, it SAVES you money by giving a discount of 10 per cent for cash on all scholarships of six months or more. Winter Term Begins First Monday in Jan.

For information, address, **MOSHER-LAMPMAN BUSINESS COLLEGE**, 17th and Farnam Sts., Omaha, Neb. Places to Work for Board. Mention this Paper.

BILLIARD TABLES

POOL TABLES

LOWEST PRICES. EASY PAYMENTS.

You cannot afford to experiment with untried goods sold by commission agents. Catalogues free.

The Brunswick-Balke-Collender Company
407-9 So. 10th St., Dept. 2, OMAHA, NEB.

Furs At Factory Prices

Aulabaugh's complete catalogue will show you what you want.

G. N. AULABAUGH
Dept. M., 1508 Douglas St., OMAHA.

DENTISTS

Dr. Bailey & Mach, The 3d Floor, Farnam Block, cor. 16th and Farnam Sts., OMAHA, NEB. Best equipped dental office in the Middle West. Latest appliances. High grade dentistry. Reasonable prices.

RUBBER GOODS

by mail at cut prices. Send for free catalogue.

MYERS-ELLISON DRUG CO., OMAHA, NEB.

THE PAXTON Hotel

European Plan
Rooms from \$1.00 up single, 75 cents up double.
CAFE PRICES REASONABLE

THE POTATO AND ITS NEED OF FERTILIZATION

Elements Which Soil Lacks Must Be Supplied to Produce Normal Tubers—By Edward M. East, Illinois Agricultural College.

The writer was led first by Coudon's and Boussard's work to believe that the physical structure of the potato held some relation to the table quality. Microscopical examination of the structure of the potato bears out the

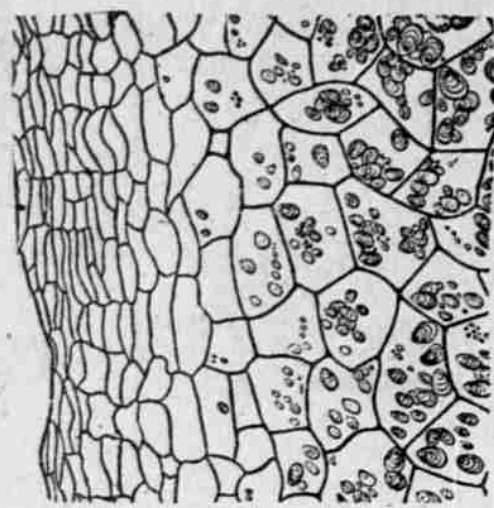


Fig. 1.—Outer Section of Cortical Layer.

chemical analyses of the different zones.

The cortical layer is the outside ring, the internal medullary layer is the branchlike structure, and the external medullary layer is the part between.

The cortical layer (Figs. 1 and 2), below the first few layers of cells which are removed with the skin, shows a remarkably larger amount of starch in the cells, than does the internal medullary layer (Figs. 3 and 4). The starch content of the internal medullary layer is also greater than that of the internal. The grains of starch in the cortical and external medullary layers besides existing in greater numbers per cell, are gen-

duced with the use of potassium chloride, but this conclusion is opposed by other experiments. There is probably no ill effect from the use of ordinary amounts (100 to 500 pounds) of potassium chloride, even if excessive use of chlorides is detrimental.

The accompanying table shows the general effect of fertilizers upon quality. In an experiment planned primarily in soil fertility, sodium nitrate was sown at the rate of 250 pounds to the acre over the whole plot and potassium and phosphorus supplied as shown in the table. The numbers here shown are the estimates of quality of all of the tubers produced by all of the plants of one row running across all the plots. The variety used was Green Mountain.

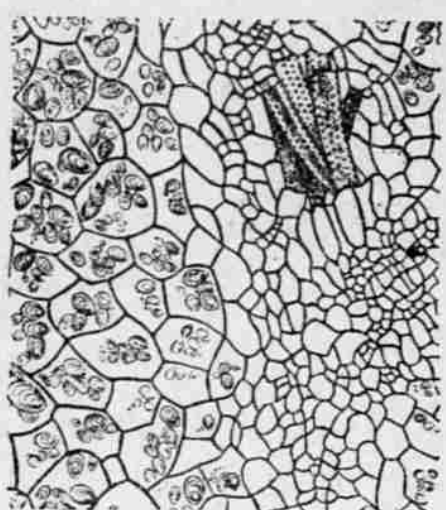


Fig. 3.—Section Near the Vascular Bundles Showing Portion of External Medullary Layer.

The land was very poor in fertility, although in excellent physical condition for growing potatoes. It was

Plot No.	Fertilizers applied per acre.	No. tubers produced.	No. of tubers of each of these qualities.				
			Good.	Fair.	Medium.	Poor.	Very poor.
1	Nothing.	81	0	5	17	25	34
2	Potassium chlorid 150 lbs., Bone meal 200 lbs.	125	1	10	33	56	25
3	Potassium chlorid 300 lbs., Bone meal 100 lbs.	121	1	12	42	40	26
4	Potassium chlorid 300 lbs., Bone meal 200 lbs.	148	3	14	56	45	30
5	Potassium chlorid 300 lbs., Bone meal 400 lbs.	135	3	19	56	37	20

Table Showing Influence of Fertilizers on Quality.

erally of larger average size. The paucity of starch in the internal medullary layer causes the cells to be only partially filled with the cooked starch and the cell walls are scarcely ever ruptured. In the cortical layer, on the other hand, the amount of starch is such that in the swelling due to cooking, the cells are filled completely and many of them ruptured, causing the mealy appearance so much desired of the consumer.

It is quite evident then that potatoes having as far as possible a homogeneous flesh and containing as large an amount as possible of cortical and outer medullary layers in proportion to inner medullary layer, should be of the finest quality.

This has been shown to be a fact in experiments with 15 American varieties even though cooked after having been split in half, which is manifestly a disadvantage.

The influence of fertilizers on the potato seems to be primarily if not solely due to their aid in producing a normal development of tubers. That is,

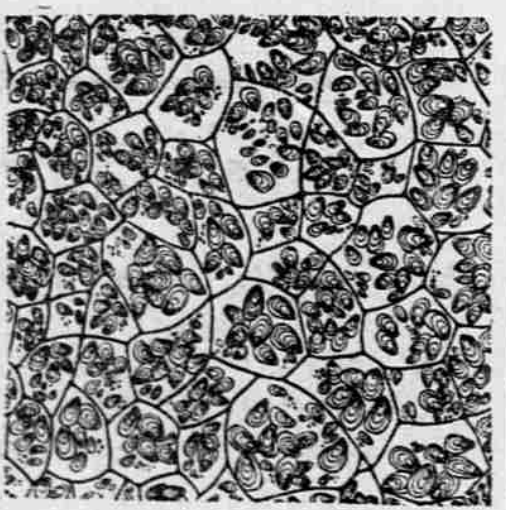


Fig. 2.—Inner Section of Cortical Layer.

the fertilizer applied must correct abnormality by furnishing an element of fertility which is lacking in the soil. An application of ordinary quantities of an essential element which is already present in the soil in amounts necessary to a normally fertile soil, probably has no marked effect either upon the crop or its quality.

Some writers have maintained that the use of potassium sulfate gives potatoes of better quality than are pro-

duced with the use of potassium chloride, but this conclusion is opposed by other experiments. As is seen, the quality grew markedly better where the potassium chloride was supplied at the rate of 300 pounds per acre, but ap-

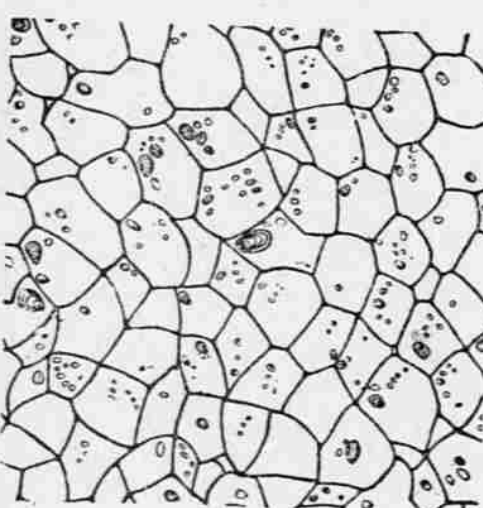


Fig. 4.—Section of Internal Medullary Layer.

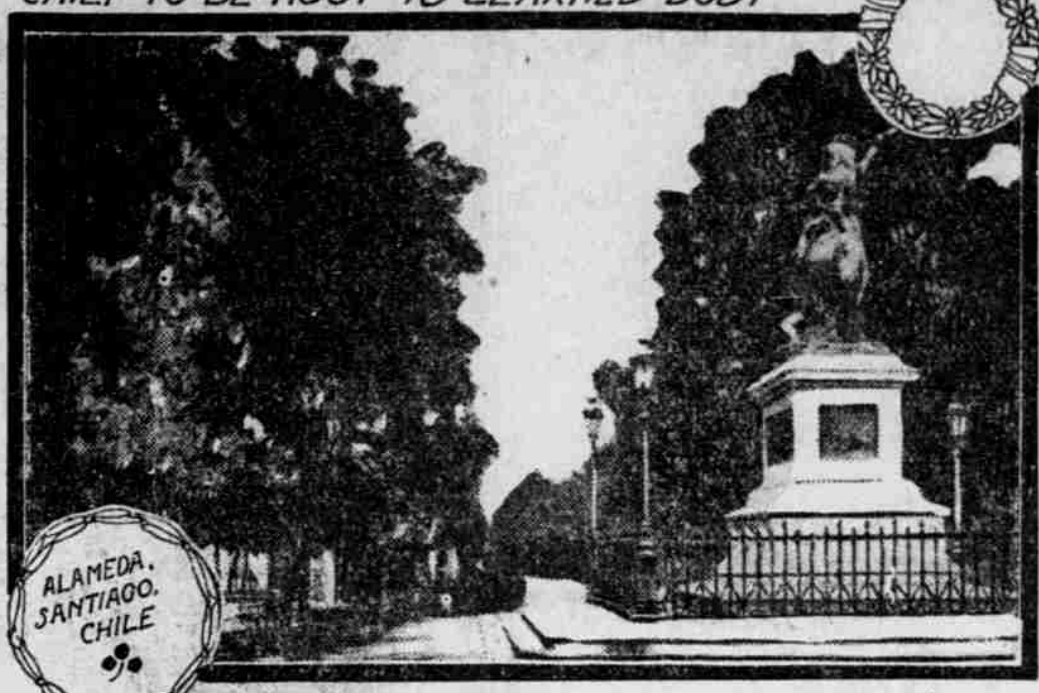
parently very little difference was made by doubling the applications of phosphorus.

Alsike Clover.—Alsike clover can be grown on land that is too wet for the growing of red clover. It is thus of great value in many parts of the United States in which the drainage of land is in a very backward condition, and is likely to be backward for a long time to come. We commend this clover for trial in all such locations. Where it is difficult to grow any kind of legume, the land generally needs a crop such as alsike clover to put the soil in good condition, or as good as can be hoped for on undrained land. The hay from alsike clover is finer than from red clover and not so much is produced per acre, but it is richer in nitrogen, which is a very important consideration.

Separate Hoppers for Different Grains.—One of the greatest objections to the hopper system of feeding is that the hens must either use the mixture you give them, whether they want it or not, or else they will waste some kinds while picking for what they like. To overcome this, use several hoppers, each with one kind of grain in it. This gives the hen a chance to balance her own ration.

PAN-AMERICAN SCIENTIFIC CONGRESS

CHILE TO BE HOST TO LEARNED BODY



HOME OF THE AMERICAN CONSULAR AGENT, PUNTA ARENAS, CHILE.

By invitation of the Chilean government the Pan-American Scientific congress will hold its meeting the last of December, this year, at Santiago, whither delegates from all nations in the Americas are now making preparations to go. The United States has appropriated \$35,000 to defray the expenses of its delegates, and the choice of men from the United States consists of Prof. Archibald Cary Coolidge of the Harvard historical department; Prof. Hiram Bingham, now of the Yale historical department, but for the last five years curator of South American history and literature at the Cambridge university; Prof. Leo S. Rowe of the University of Pennsylvania, a well-known authority on Latin America; Prof. Paul S. Reinsch of the University of Wisconsin, a delegate to the third Pan-American congress in 1906, and well known for his writings on political science and colonial government; Col. William C. Gorgas of the United States army, chief sanitary officer of the Isthmian canal commission; William H. Holmes, chief of the bureau of American ethnology at the Smithsonian institution, Washington; Prof. Bernard Moses of the historical and political science department of the University of California; George M. Rommel of the bureau of animal industry of the department of agriculture; Prof. William M. Shepherd of Columbia university, a close student of South American affairs, and Prof. William B. Smith of the philosophical department of Tulane university, Louisiana, who is almost as well known as a mathematician and New Testament critic as a philosopher. Prof. Rowe is chairman and Prof. Reinsch vice-chairman of the delegation.

Though the coming congress is the first scientific gathering to include all the countries of the western hemisphere, it will be the fourth congress of the kind for the Latin-American countries. The first was held at Buenos Ayres in 1898, the second at Montevideo, Uruguay, in 1901, and the third at Rio de Janeiro in 1905. It is owing to the predominant part assumed by the United States in the Pan-American conference of 1906, that this country was invited to send representatives to the more specialized congress.

The purpose of the scientific congress at Santiago is to bring together advanced thinkers in all lines of scientific research for the discussion of the numerous problems confronting modern civilization, and particularly of such as, through their elucidation, will tend to the social betterment and national prosperity of the countries represented.

Each congress has been broader in purpose than its predecessor and has had a larger representation, but it is due to the Chilean committee that planned the coming meeting that the United States was invited to send delegates.

The United States government, through Secretary of State Root, invited 15 universities to send representatives. Only six have responded, but it is expected that the universities of Chicago, Illinois, Michigan, Minnesota, Texas and Wisconsin and George Washington, Johns Hopkins and Princeton will name delegates.

The United States government accepted the Chilean invitation to send delegates to the first Pan-American congress because it felt such meetings would prove extremely valuable not only in effecting the close relations of the American countries, so much striven for now, but because it was sure the meeting would be of great practical good.

At the Rio congress of 1905, where 14 countries had representatives, 120 papers were read. In the coming congress the topics for discussion are under nine headings: mathematics, physical sciences, natural, anthropo-

logical and ethnological sciences, engineering, medical sciences and hygiene, juridical science, social sciences, pedagogy and philosophy, agronomy and zootechnics, which latter may be called the science of agriculture. The discussions under the head of social sciences are expected to be the most important, 40 per cent. of the subjects to be introduced in the congress being grouped under that title.

At Santiago there will be established a general clearing house of American information. The great bulk of the work will come under the social sciences, and 265 subheads under that title have been made. It is certain that a good deal more information concerning the early history and inhabitants of America will become common knowledge after the congress closes. Exchange of ideas on agricultural methods will also be valuable. Among the almost innumerable subjects to be talked over the most important are such as these:

Means which American nations might employ to properly assimilate immigrants to the native element.

The advisability of introducing the referendum. Results following reforms introduced in American countries for the purpose of affording the people a more direct participation in public affairs. Legal and political status of aborigines.

Labor, including co-operative building plans, laws to protect women and children in industrial labor, minimum wages, co-operative loan associations, savings banks, relief societies, labor exchanges, compulsory insurance, industrial schools, social education and labor unions.

Under engineering some subjects are: Plans and gages of intercontinental railways, supply of drinking water, distribution of irrigation water and adoption of a Pan-American standard, reinforced concrete construction, railway car lighting and processes for concentration of ores, uses of nitrate and discussions of the only source of supply, the Chilean fields.

Under agronomy and zootechnics proposed subjects include preparation and improvement of soils, agricultural machinery, reforestation, viticulture and vinification, production of meat, fat, milk, butter, cheese and wool, machinery for the elaboration and conservation of animal products, poultry, fish culture, parasitical and contagious diseases of domestic animals, rural construction, economic elements in agricultural production.

When it is considered that we are far in advance of South America on some of these matters, while they are much better informed on others, the great value of the coming congress to all the people of the western hemisphere can be appreciated.

What Generosity Means.

"Many people get the credit of being generous who never felt a single generous impulse in their lives," says a close student of human nature. "Their generosity—so-called—has consisted simply in formal, cold, grudging almsgiving, carried out at the call of duty, and unaccompanied by any spontaneous burst of feeling or sympathy."

"The highest generosity is full of strong, unhesitating self-effacement, and always inspires—except in debased natures—feelings of gratitude and affection. Almsgiving is one of the least of its attributes. It more often takes the form of helpfulness, sympathy and understanding. It gives forth compassion and encouragement of a kind which is far beyond money value."

"The secret of generosity is unselfishness, and the way to acquire it is to cultivate universal love and sympathy."—Illustrated Sunday Magazine.

Depopulated by Sleeping Sickness.

Fajao as a native town was no more. At hardly any point in Uganda has the sleeping sickness made such frightful ravages. At least 6,000 persons had perished in the last two years. Almost the whole population had been swept away.

Scarcely enough remained to form the deputation, who in their white robes could be discerned at the entrance to the cleared area of the camping ground. And this cleared area was itself of the utmost importance, for all around it the powers of evil were strong. The groves which fringed and overhung the river swarmed with tsetse flies of newly replenished venom and approved malignity, and no man could enter them except at a risk.—Winston Churchill in Strand Magazine.

HAD ASKED FOR AN ANSWER.

Willie Wanted to Be Certain His Prayer Had Been Heard.

Willie had not been a very good boy that day, and in consequence of certain inexcusable derelictions he had been sent to bed with the sun. After supper his father climbed the stairs to the youngster's room and throwing himself down on the bed alongside of the delinquent, began to talk to him.

"Willie," he said gravely, "did you say your prayers before you went to bed?"

"Yessir," said Willie.

"And did you ask the Lord to make you a good boy?" asked the parent.

"Yep," said Willie, "and I guess it'll work this time."

"Good," said the father. "I'm glad to hear that."

"Yes," said Willie, "but I don't think we'll know before to-morrow. You've got to give the Lord time, you know."

"And what makes you think it will work this time, my son?" queried the anxious father.

"Why, after the amen I put in an R. S. V. P.," explained the boy.—Harper's Weekly.

INVALID'S SAD PLIGHT.

After Inflammatory Rheumatism, Hair Came Out, Skin Peeled, and Bed Sores Developed—Only Cuticura Proved Successful.

"About four years ago I had a very severe attack of inflammatory rheumatism. My skin peeled, and the high fever played havoc with my hair, which came out in bunches. I also had three large bed sores on my back. I did not gain very rapidly, and my appetite was very poor. I tried many 'sure cures' but they were of little help, and until I tried Cuticura Resolvent I had had no real relief. Then my complexion cleared and soon I felt better. The bed sores went very soon after a few applications of Cuticura Ointment, and when I used Cuticura Soap and Ointment for my hair it began to regain its former glossy appearance. Mrs. Lavinia J. Henderson, 158 Broad St., Stamford, Conn., March 6 and 12, 1907."

LID IS ON.



"Aren't you almost ready for church?"

"I'm sorry, but something dreadful has happened. I can't go to church to-day."

"For heaven's sake, what has happened?"

"The cook is wearing one just like mine!"

Not Fair.

"Look here, Abraham," said the Judge, "it's been proved right here in court that instead of doing something to help support your wife and children you spend your whole time hunting 'possums!'"

"The old negro hung his head.

"Now, Abe, you love your wife, don't you?"

"Ah suttinly does!"

"And your children?"

"Yas, suh!"

"And you love them both better—"

"Better ev'ry day, jedge!" Abe broke in.

"—better than a thousand 'possums?'"

"Look hyah, jedge," exclaimed Abe, with widening eyes, "dat's takin' a soon at a pow'ful disadvantage!"—Bohemian Magazine.

Journalism in Pennsylvania.

We have taken wood, potatoes, corn, eggs, butter, onions, cabbage, chickens, stone, lumber, labor, sand, calico, sauerkraut, second-hand clothing, coon skins and bug juice, scrap iron, shoes, pegs, rawhides, chinquapias, tan-bark, dogs, sorghum, seed, jawrare and wheat straw on subscription, and now a man wants to know if we would send the paper for six months for a large owl. We have no precedent for refusing, and if we can find a man who is out of an owl and wants one we'll do it.—Treverton Times.

Sheer white goods, in fact, any fine wash goods when new, owe much of their attractiveness to the way they are laundered, this being done in a manner to enhance their textile beauty. Home laundering would be equally satisfactory if proper attention was given to starching, the first essential being good Starch, which has sufficient strength to stiffen, without thickening the goods. Try Defiance Starch and you will be pleasantly surprised at the improved appearance of your work.

The Symmetrical Figure. Speaking of that rare gift, symmetry of person, it is more desirable than beauty of feature, because it outlasts youth. The symmetrical figure is perfectly proportioned and articulated anatomy, and nothing is more rare. Be thankful, fair ones, when you have "points" which cause us to overlook any little discrepancy in form.—Exchange.

DISTEMPER

In all its forms among all ages of horses, as well as dogs, cured and others in same stable prevented from having the disease with SPOHN'S DISTEMPER CURE. Every bottle guaranteed. Over 500,000 bottles sold last year. \$3.50 and \$1.00. Any good druggist, or send to manufacturers. Agents wanted. Spohn Medical Co., Spec. Contagious Diseases, Goshen, Ind.

Not She.

He—If I kissed you, would you give it away to your mother?

She—Oh, no. I don't think mamma would want it.