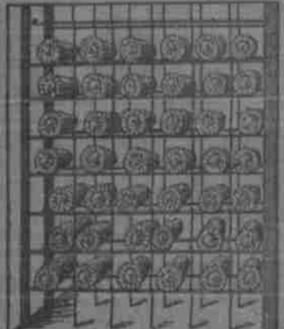


FARM AND GARDEN

TESTING SEED CORN.

A Practical Step Toward Efficient-
 ing Crops From Agriculture.
 By ALBERT N. BAKER, Illinois Experiment
 Station.

When corn planting time arrives the most serious question for every grower is that of securing seed for their fields which will be certain to grow. It may seem like a heavy task to separate three or four hundred ears of corn from every ear in a bushel, and yet no man in ten hours' total time can test every ear of seed corn required to plant sixty-acre corn. Some such method is said to have been used by John R. Clark, secretary of the Illinois Corn Breeders' association, in testing large quantities of seed corn. One kernel



BACK OF EACH KERNEL AND SEED.

should be taken from the butt of the ear, at least one from the middle and one from the tip. Four kernels is enough to take from one ear for practical work if properly taken.
 The four kernels from each ear must be placed in a separate group, and it is best that the group be marked or numbered to correspond with the number of the ear from which the kernels were taken. For this plan it is necessary that the ears be placed in regular order as the kernels are removed from them. A good device for arranging the ears in regular order is shown in the first cut.

One of the quickest and most convenient devices for making germination tests is that first used by Trubner or Galt at the Geneva station in New York. This apparatus consists of a water tight box across which are extended folds of cotton flannel. These folds are suspended from wires and can be removed to dry when not in use. The box must be filled to the depth of about an inch with water, so that the folds of cotton flannel will hang down enough to touch the water and thus be moistened by capillarity. The box should be about 12 by 24 inches and 3 or 5 inches deep. It may be made of wood, galvanized iron, tin or copper, and the wires can be cut from ordinary smooth galvanized pipe wire.
 When kernels of corn are to be tested in this germinating apparatus they are removed from the ears, placed between the folds in regular order and the folds closed together. The groups of kernels from the separate ears may be arranged



SECTION UP A GERMINATION TESTER.

bered with slips of paper. This numbering will not be absolutely necessary if proper care is used to have the groups of kernels correspond to the ears of corn from which they came. After the kernels are put in place the folds are drawn together at the top, the lid closed upon the box and the apparatus left until the kernels germinate. When put into this box the kernels will not usually suffer for moisture during the length of time of one test. This is one of the advantages of the Geneva tester over the plate of sand where the moisture may need renewing each day or even oftener. The folds are easily opened when it is necessary to inspect the kernels to count the number which have germinated.

ABOUT RHEUMATISM.

There are few diseases that inflict more torture than rheumatism and there is probably no disease for which such a varied and useless lot of remedies have been suggested. To say that it can be cured is, therefore, a bold statement to make, but Chamberlain's Pain Balm, which enjoys an extensive sale, has met with great success in the treatment of this disease. One application of Pain Balm will relieve the pain, and hundreds of sufferers have testified to permanent cures by its use. Why suffer when Pain Balm affords such quick relief and costs but a trifle? For sale by The Modern Pharmacy.

Charles B. Rasmussen, superintendent of 1st ward Portland, has been indicted on the charge of attempting to bribe the city engineer to report unfavorably on Marquam Gulch Viaduct bid.

BUILDING A MINIATURE CITY

Spokane Will Show Herself in Hand-Carved Reproduction at the Lewis and Clark Fair.

Portland—One of the most novel exhibits at the Lewis and Clark Exposition will be the city of Spokane, Wash. The city is to be removed to Portland aboard a car, and it will not require a very large car, either. Spokane in miniature is now being built. A civil engineer and an artist are the builders, and the Spokane Chamber of Commerce is the sponsor. The minute city, a beautiful reproduction, with a stream of real water to represent Spokane Falls, will occupy a room in the balcony above the main exhibit in the Washington state building at the fair, and Spokane people will proudly point out the places of interest in their city without finding it necessary to take the tourist train. It is the expectation, however, that the tourist who sees the reduced fac-simile of Spokane will be so charmed that he will go up to see the actual city.

The plan is to reproduce the city in detail from Jefferson street to Davidson street between Mallow avenue and the Northern Pacific railroad. To the sightseer the city will appear as if seen from an elevation over the river at Jefferson street, and he will be looking away to the north, the east and the south. The foundation of the city which will include the streets, curbs and sidewalks will be of cement from two inches to six inches thick. The district to be reproduced will be made on an absolute scale of 50 feet to the inch, which will make the exhibit 1000 feet. The cement foundation will be divided into 10 sections, weighing 120 pounds each, so that it can be safely moved.

The buildings will be hand-carved from pine. Each city block will be made separately, and will be fastened upon the cement foundations by dowels. That will permit the whole thing to be taken apart for shipment. After the details of all the business buildings are carved they will be painted in the actual colors of the structures. The bridges will be reproduced of wood and wire. The only thing of the city will be painted upon canvass and adroitly joined to the little city so as to appear in natural perspective.

HEALTH IS YOUTH.

Disease and Sickness Being Old Age
 Herbaline, taken every morning before breakfast, will keep you in robust health, fit you to ward off disease. It cures constipation, biliousness, nervousness, feverishness, liver and kidney complaints. It purifies the blood and clears the complexion.
 Mrs. D. W. Smith, Whitney, Tex., writes April 3, 1902: "I have used Herbaline, and find it the best medicine for constipation and liver troubles. It does all you claim for it. I can highly recommend it. Sold by The Modern Pharmacy."

Mrs. Portleigh—I have to handle my husband with gloves.
 Mr. Cutting—Boxing or rubber?
 Detroit Free Press.

A GREAT SENSATION.

There was a great sensation in Leesville, Ind., when W. H. Brown of that place who was expected to die, had his life saved by Dr. King's New Discovery for Consumption. He writes: "I endured insupportable agonies from Asthma, but your Discovery gave me immediate relief and soon thereafter effected a complete cure." Similar cures of Consumption, Pneumonia, Bronchitis and Grip are numerous. It is the peerless remedy for all throat and lung troubles. Price 50c, and \$1.00. Guaranteed by Benson's Pharmacy. Trial bottle free.

Mrs. Peck (contemptuously)—What are you, anyhow—a man or a mouse?
 Heavy Peck (bitterly)—A man, my dear. If I were a mouse I'd have you up on that table yelling for help right now!—Cleveland Leader.

THE RIGHT NAME IS DEWITT.

Dr. DeWitt's Witch Hazel ointment, soothes and heals cuts, burns, boils, bruises, piles and all skin diseases. Dr. DeWitt's Little Early Balm, W. Va., says "My little daughter had white swelling so bad that I had to give her of home worked out of her leg. Dr. DeWitt's Little Early Balm cured her." It is the most wonderful healing ointment in the world. Beware of counterfeits. Sold by The Modern Pharmacy.

FOR A WEAK DIGESTION.

No medicine can replace food but Chamberlain's Stomach and Liver Tablets will help you to digest your food. It is not the quantity of food taken that gives strength and vigor to the system, but the amount digested and assimilated. If troubled with a weak digestion, don't fail to give these Tablets a trial. Thousands have been benefited by their use. They only cost a quarter. For sale by The Modern Pharmacy.

SEND THIS BOOK EAST

Tell Your Friends About Oregon, Washington and Idaho.

The 1905 issue of "Oregon, Washington, Idaho and Their Resources," issued by the Passenger Department of the Oregon Railroad & Navigation Company, and the lines of the Southern Pacific in Oregon, is now ready for distribution. 50,000 copies having been issued. The book has a specially designed front cover in two colors and contains eighty-eight pages illustrated by twenty-one full page first class half-tones and a number of smaller ones. The book is divided into three parts covering the following subjects: Climate, dairying, diversified farming, fish and fishing, fruit culture, grain growing, grasses and forage plants, home for millions, hop raising, irrigation, Lewis and Clark Exposition, lumber and lumbering, markets, mines and mining, Portland, "The Rose City," railroads, schools and churches, soil, stock raising, vegetable products, lands in western Oregon, condensed information about towns and cities along the O. R. & N. and the Southern Pacific lines.

The illustrations of fruitful scenes in farm and orchard districts are taken from actual photographs, the facts and statistics are correct, or approximate as they are, and these features of the work make it of great value to people of the East who are looking to the Pacific Northwest for homes and business locations. Every citizen of the states exported in the book will find it valuable to send to relatives and friends in other states who may be induced to come and live in the Pacific Northwest.

Four cents in stamps sent to A. E. Craig, General Passenger Agent of the Oregon Railroad & Navigation Company, Portland, Oregon, with the address of an eastern friend, will insure its being sent.

Harold (translating Virgil)—Thrice I tried to throw my arms around her neck—Say, Miss Rows, that's as far as I got.
 Miss Rows (smiling)—That will do, Harold. You may continue, Elmer.

RHEUMATIC PAINS QUICKLY RELIEVED.

The excruciating pains characteristic of rheumatism and sciatica are quickly relieved by applying Chamberlain's Pain Balm. The great pain relieving power of the ointment has been the surprise and delight of thousands of sufferers. The quick relief from pain which it affords is alone worth many times its cost. For sale by The Modern Pharmacy.

At a jolly party the other evening the company was engaged in the old fashioned game of "Blind Man's Buff." In the excitement of being blind-folded, a young lady grasped the bald head of a gentleman and exclaimed: "Oh, where are you all? Here I am by the knob of the banister!"

MAKES A CLEAN SWEEP.

There's nothing like doing a thing thoroughly. Of all the Salve you ever heard of, Hinkle's Arnica Salve is the best. It sweeps away and cures Burns, Scalds, Bruises, Cuts, Blisters, Ulcers, Skin Eruptions and Piles. It's only 25c, and guaranteed to give satisfaction by Benson's Pharmacy.

ROBBED THE GRAVE.

A startling incident is narrated by John Oliver of Philadelphia as follows: "I was in an awful condition. My skin was almost yellow, eyes sunken, tongue coated, pain continually in back and sides, no appetite, growing weaker day by day. Three physicians had given up on me. Then I was advised to use Electric Bitters; to my great joy, the first bottle made a decided improvement. I continued their use for three weeks, and am now a well man. I know they robbed the grave of another victim." No one should fail to try them. Only 50 cents, guaranteed at Benson's Pharmacy.

WON A NAME OF FAME.

Dr. DeWitt's Little Early Balm, the famous little pills, have been made famous by their certain yet harmless and gentle action upon the bowels and liver. They have no equal for biliousness, constipation, etc. They do not weaken the stomach, grip, or make you feel sick. Once used all was preferred. They strengthen. Sold by The Modern Pharmacy.

The World's Fair Choice of Soda Fountains.

INSTALLED IN THE Modern Pharmacy.

It is a matter for congratulation that the beautiful new 20th Century Sanitary Soda Fountain recently set up in the Modern Pharmacy by the L. A. Becker Company of Chicago, the manufacturers, should be the make selected above all others for exclusive use in all the cafes and other refreshment places at the World's Fair, St. Louis, because of its absolute protection to health. It is also a tribute to the sagacity of David Griggs that this particular fountain should be his choice. The patrons of this store will have the assurance of complete security from disease germs while partaking of the most delicious soda water ever drawn.

Under the 20th Century Sanitary System, the syrups are dispensed from sterilized glass containers standing on ice and in plain view of customers, whereas in old style fountains the syrups are stored in dark chambers, difficult of access and cleaned—how often no one knows. In the "20th Century" there are no sticky spigots, no corroding metal tubes—not a possible lurking place for the dangerous microbe of disease the fear of which has kept many from enjoyment of the most delicious drink in the world. Even the refrigerator and also the workboard, which latter is the "kitchen" of the soda fountain, are sanitary in construction and operation and all is in accord with the most advanced public sentiment for hygienic precaution.

The beautiful design, the open, cleanly, inviting appearance of this delightful creation in tinted onyx and marble, warrant the prediction that it will be the rendezvous of many happy soda parties.

The Modern Pharmacy invites the public to call and let them explain the 20th Century Sanitary System and how it safe-guards health.

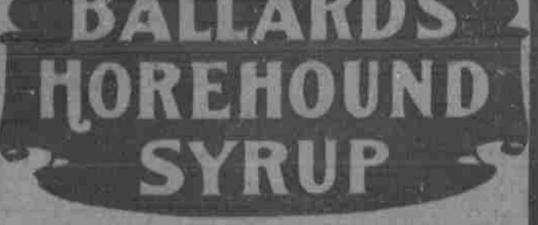
NOTICE OF FORFEITURE.

To L. F. Slavens and Niles Helms, and to any and all other persons claiming the right, title or interest, either in law or equity, in or to the hereinafter described mining claim and premises, by through or under the said L. F. Slavens and Niles Helms or either of them:
 You and each of you are hereby notified that the undersigned, has expended money and performed labor and work to the amount of \$63,566 upon the "Mistral" (Mystry) lode mining claim, situate in the Bohemia Mining District, Lane County, State of Oregon, located by Arthur Helms and L. S. Slavens on the 24th day of July, 1898, which said notice was duly recorded in the Record of Mining Claims, Book 5, page 144. That the labor so performed and the money so expended was made and expended in said claim between the first day of December, 1904 and the thirty-first day of December, 1904 in order to hold the said mining claim under the provisions of Section 2324 of the Revised Statutes of the United States and the laws of the State of Oregon, the same, together with the sum of \$23,333 expended by Charles Bowen, the other co-owner being the amount required by law to hold said claim for the year ending December 31st 1904.

That the proportionate share of each of you as co-owners so expended being the sum of \$18,655 each, and that if within sixty days from the service of this notice upon you by the Sheriff of the county, or within ninety days from the service of said notice by publication, you fail to contribute your proportionate share of the said expenditures as a co-owner, your interests respectively in said claim will become the property of the undersigned under the provisions of said Section 2324 of the Revised Statutes of the United States by reason of such failure to contribute your proportionate share of such expenditures.
 Dated March 20th, 1905.
 Geo. W. LLOYD.

Do Not Neglect a Cold.

Every cold weakens the Lungs, lowers the Vitality and makes the system less able to withstand each succeeding cold, thus paving the way for more serious diseases.
 CAN YOU AFFORD TO TAKE SUCH CHANCES?



PERMANENTLY CURES Consumption, Coughs, Colds, Sore Throat, Asthma, Croup, Whooping Cough, Bronchitis, Hoarseness, Sore Lungs.

EVERY MOTHER SHOULD KNOW THAT BALLARD'S HOREHOUND SYRUP CONTAINS NO OPIATES, DOES NOT CONSTIPATE CHILDREN AND WILL POSITIVELY CURE COUGHS AND WHOOPING COUGH.

MRS. SALLIE LOCKBAR, Goldthwaite, Tex., says: "We have used Ballard's Horehound Syrup in our family for several years, and it always gives satisfaction. When the children had Croup and Whooping Cough it always relieved them at once, and I would not be without it in the house, as it is the BEST MEDICINE we know of."

Best Remedy for Children. Every Bottle Guaranteed. THREE SIZES: 25c, 50c and \$1.00. BALLARD SNOW LINIMENT CO., ST. LOUIS, MO.

SOLD AND RECOMMENDED BY The Modern Pharmacy.

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O. & S. E. R. CO.

Time Table No. 1 To take effect April 20, 1905.

East Bound	Sand 4 Tuesday	W. Bound	and Sat. only
1st	Daily Ex-cept Sunday	1st	Daily Ex-cept Sunday
No. 1-101	1st	No. 2-102	1st
7:00 AM	7:00 AM	7:00 AM	7:00 AM
8:00 AM	8:00 AM	8:00 AM	8:00 AM
9:00 AM	9:00 AM	9:00 AM	9:00 AM
10:00 AM	10:00 AM	10:00 AM	10:00 AM
11:00 AM	11:00 AM	11:00 AM	11:00 AM
12:00 PM	12:00 PM	12:00 PM	12:00 PM
1:00 PM	1:00 PM	1:00 PM	1:00 PM
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10:00 PM	10:00 PM	10:00 PM	10:00 PM
11:00 PM	11:00 PM	11:00 PM	11:00 PM
12:00 AM	12:00 AM	12:00 AM	12:00 AM

For Tickets, Rates, Folders and Full Information, Call on or address, H. DICKSON, C. T. A., 122 3d St., Portland Ore. S. G. YERKES, A. G. P. A., Care of Agents and Travelers, Boston Wash. We give expedited service on freight. Route your shipments via Great Northern. Full information from Wm. HARDER, Genl. Agent, Portland, Oregon.

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