

**True Economy**  
Every man who is seeking to save by smoking 5c cigarettes, should see how much more satisfaction in better value he can get by paying 15c for 20 FATIMAS.

Lagatt & Myers Tobacco Co.



Magnificent Volume.

The most sumptuous copy of Shakespeare's "Romeo and Juliet" in existence was recently sent from England to a purchaser abroad. The value of the book is between \$5,000 and \$7,500. It has been reproduced as an illuminated manuscript on vellum, and the volume is notable as being the entire work of an artist, Alberto Sangoraki, who was engaged upon it for 18 months. The title is in pearls set in gold, and the cover is embellished with 214 rubies and 36 emeralds.

**SAGE TEA AND SULPHUR DARKENS YOUR GRAY HAIR**

Look Years Younger! Try Grandma's Recipe of Sage and Sulphur and Nobody Will Know.

Almost everyone knows that Sage Tea and Sulphur properly compounded, brings back the natural color and lustre to the hair when faded, streaked or gray; also ends dandruff, itching scalp and stops falling hair. Years ago the only way to get this mixture was to make it at home, which is messy and troublesome.

Nowadays we simply ask at any drug store for "Wyeth's Sage and Sulphur Hair Remedy." You will get a large bottle for about 50 cents. Everybody uses this old, famous recipe, because no one can possibly tell that you darkened your hair, as it does it so naturally and evenly. You dampen a sponge or soft brush with it and draw this through your hair, taking one small strand at a time; by morning the gray hair disappears, and after another application or two, your hair becomes beautifully dark, thick and glossy and you look years younger. Adv.

**His Mission.**

The Professor.—The fish of America, north of the Isthmus of Panama, embrace three classes, 30 orders, 223 families, 1,113 genera, 335 subgenera, 3,263 species and 133 subspecies. The Student.—Well, professor, if you will let me off today I'll go out and see if I can get a string of genera.

For genuine comfort and lasting pleasure use Red Cross Ball Blue on wash day. All good grocers. Adv.

**Their Use.**

"Do you see where the Futurists and Cubists have gone to Spain?" "Maybe they use their pictures on the bulls to infuriate them in the ring."

Being sorry for yourself doesn't enlist the sympathy of your neighbors.

**Stop That Backache**

There's nothing more discouraging than a constant backache. Pains pierce you when you awake. Pains pierce you when you bend or lift. It's hard to rest and next day it's the same old story. Pain in the back is nature's warning of kidney trouble. Neglect may pave the way to dropsy, gravel, or other serious kidney sickness. Pain in the back is nature's warning of kidney trouble. Neglect may pave the way to dropsy, gravel, or other serious kidney sickness. Don't delay—begin using Doan's Kidney Pills—the medicine that has been curing backache and kidney trouble for over fifty years.

**A Michigan Case**

Mrs. W. P. Jones, Pine St., Ivart, Mich., says: "My back ached almost constantly and I had no control over the kidney secretions. I got so dizzy I could hardly stand alone and for three months I couldn't get around. The knife-like pains in my back were so bad and my nerves were all unstrung. My doctor failed, I used Doan's Kidney Pills and in six weeks a permanent cure was effected."

Get Doan's at Any Store, 50c a Box. **DOAN'S KIDNEY PILLS** FOSTER-MILBURN CO., BUFFALO, N. Y.

**DR. J. D. KELLOGG'S ASTHMA**  
Remedy for the prompt relief of Asthma and Hay Fever. Ask Your druggist for it. Write for FREE SAMPLE. NORTHROP & LYMAN CO., L.L., BUFFALO, N.Y.

W. N. U., DETROIT, NO. 4-1915.

**INSECTS INJURIOUS TO ORCHARDS CAN BE CONTROLLED BY FUMIGATION**

Treatment Now Being Adopted Everywhere as Means of Rendering Nursery Stock Safe When It Leaves Hands of Grower—Some Valuable Suggestions Are Given for Care of Young Trees.

(By H. GARMAN.)

There is no avoiding the fact that we must reckon with the San Jose scale if we are to raise good fruit. Some states have escaped it longer than others, partly because they were not so generally engaged in fruit growing, partly, perhaps, because they began at once to look after the pest when its presence was discovered in other states. But the scale has been gradually invading our orchards until it is now liable to be discovered on fruit trees anywhere in the United States. This means simply that we



Fumigation House.

shall be compelled to do what our neighbors are doing if we wish to compete with them in the production of good fruit.

The recent growth of interest in fruit growing and the disposition to plant new orchards has led to the adoption of improved methods of caring for fruit trees on the part of the most progressive people, but many farmers and even fruit growers are still not provided with spraying outfits, without which they cannot hope to save their trees from scale insects. These trees are perhaps not in all cases sufficiently valuable to justify the expense of spraying, but neighbors who have invested more extensively in fruit and depend more on the crop, should not be made to suffer because of neglect on the part of people who have nothing at stake.

Everyone ought, it would seem, to be required to destroy infested trees in his possession whenever he is unwilling to treat them and care for them properly. Certainly one has nothing to gain by keeping them, since the scale will destroy them anyway, and a neighbor's risk should of itself be sufficient motive to impel one to get rid of the pests.

The importance of giving attention to spraying, fumigation, and other

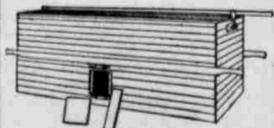


Fumigation Box With Trees Packed In It.

means of destroying scale insects is growing greater every year, as the acreage in fruit increases. It is customary to concede to insect pests of ordinary crops one-tenth of the total value of the crop, and applying this to our fruit crops of last year we may be said to have lost, as a result of insect depredations, many millions of dollars.

Most of the injury and resulting loss can be prevented. Spraying alone will save the greater part. Three-fourths of the codling moth damage can thus be saved. This has been demonstrated by very carefully made tests. More than nine-tenths of the San Jose scale on the bark of fruit trees can be removed by a single thorough spraying in winter with lime-sulphur solution. There seems to be no good reason, therefore, why anyone interested in farming and fruit growing should not equip himself with the necessary apparatus and do his share in keeping pests under control.

Nurseries are in great and constant danger from the unimpeded spread of pests. For their protection it is important that orchards be looked after more closely than they have been in the past, since they are frequently the source from which nurseries become infested. But since the scale is now well established throughout the entire United States it will be necessary, whatever precautions orchardists may



Fumigation Box So Constructed That It May Be Carried From One Place to Another.

take, that nurserymen guard their establishments with special care if they are to merit the confidence and patronage of the buyer of nursery stock. Fumigation with hydrocyanic acid gas is the treatment which is now being adopted everywhere as a means of saving the nursery stock. To confine the gas about the stock it is necessary to construct a gas-tight house or box. What it shall be depends chiefly on

the quantity of stock to be treated. For a small nursery of a few thousand trees, a box measuring 8 1/2 by 3 1/2 by 3 1/2 feet can be constructed, giving a capacity of about one hundred cubic feet, or if the stock is very small a box more easily handled can be made. The box should be of matched stuff, without knots, with two thicknesses of tarred building paper between. The inside of the box should be painted and the joints closed carefully with white lead. The lid should be closed by means of felt glued along the edges of the box. When the lid is in place it should be secured tightly by wedges so as to prevent the escape of gas.

A house may be constructed of the same material and in the same way. It should have a door fitting very tightly, and for convenience in airing out quickly a small door at the back should be made. Its exact size does not matter greatly, but the dose used must be very carefully computed to comply with the following instructions:

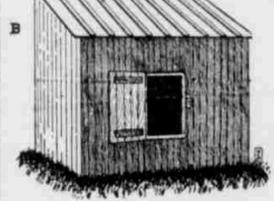
For each 100 cubic feet enclosed the following chemicals are required for each lot of trees treated:

Cyanide of potassium, one ounce (98 per cent pure).

Commercial sulphuric acid, two ounces (of good grade).

Water, four ounces.

After filling the space with trees the water is poured into a crock, then the sulphuric acid is added little by little and the crock is placed in



Door at Back for Airing Out Quickly.

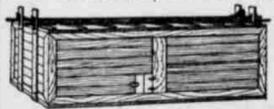
the box or house. The cyanide of potassium, broken into bits no larger than a hickory nut, is poured into the crock and the door is quickly shut. At the end of 50 minutes, or an hour, the doors are opened for ten minutes to air out, when the trees can be removed to make room for another lot. The trees should not be fumigated when wet.

They should not be too tightly packed in the box.

The time of exposure must never be shortened.

The chemicals should be of the quality specified. To make sure that the house or box is gas-tight it should always be tested before beginning operations, with a dense smudge made of cobs, rags, or other material. If the smoke escapes, the crevices will be apparent and must be closed.

Fumigation will not destroy crown gall, black rot or canker. It cannot be expected to destroy the eggs of insects, nor insects in their active stages when burrowing in the stems of trees.



Fumigation Box in Use.

It will destroy woolly aphis, or any other exposed insects in the larval or adult condition when sufficient chemicals are used and the exposure is long enough.

**CLEAN SEED WILL ELIMINATE BLIGHT**

Recurrence of Potato Troubles Can Be Prevented Next Year, Says Expert.

A recurrence of late blight and dry rot among potatoes can be prevented next year. Clean seed is the great essential. Seed treatment is not effective for this particular disease.

The late blight dry rot exists to a considerable extent among storage potatoes, says E. C. Stakman, assistant plant pathologist of the agricultural experiment station, St. Paul. If such lots are used for seed next year the disease may again be very destructive, especially if weather conditions favor its spread. It is, therefore, of vital importance that healthy seed be used.

The Minnesota experiment station pathologists have been misquoted with reference to methods of securing such healthy seed. The soaking of seed potatoes is necessary in controlling some diseases, but treatment with formaldehyde or corrosive sublimate will not prevent late blight.

Seed potatoes should be secured from fields which have not had any of the disease during the last year. If healthy tubers are planted and the vines thoroughly sprayed with Bordeaux mixture next year, the disease can be controlled.

**Seen and Heard in Michigan**

**Cadillac**—James Collins was arrested here, charged with entering five stores. He got only two dollars, it is said.

**St. Clair**—Business men and leading residents of this town have started a movement to raise funds for the construction of a large public auditorium.

**Lansing**—Frank H. Presley has been appointed bookkeeper and cashier of the state board of health. Presley lives in Lansing.

**Ann Arbor**—Miss Hildegarde Hagerman of Ludington is the first student at the U. of M. to be appointed to the editorial board of the Gargoyle, the university's humorous publication.

**East Lansing**—Enrollment in the short course in agriculture at the M. A. C. shows an increase of 21 over last year, the total number signed up being 427.

**Monroe**—Elim Cousina, retired farmer, celebrated his golden anniversary with his second wife. He had been married prior to 1865, when he and his second wife were married.

**Plymouth**—Sixty-five years ago, C. B. Truesdell, a Canton farmer, swallowed a pin. Recently he felt a pin point protruding from his ear. The pin, which he believes was the one he swallowed, was removed.

**Potoski**—The Tri-County Medical society was organized here by 25 physicians from Antrim, Charlevoix and Emmet counties. Dr. E. R. Moorman of Pellston is president and Dr. G. W. Nihart of Potoski is secretary.

**Adrian**—Bernice Burnell, thirteen-year-old Tecumseh girl, was saved from drowning when her sled caught on a jagged piece of ice and held her suspended in 20 feet of water until a workman rescued her.

**Owosso**—With her head muffled in a blanket, the infant child of Mr. and Mrs. Leslie Laney of North Shade, Gratiot county, was found smothered to death. The mother had pulled the covers over the child's head to keep the infant warm.

**Hillsdale**—Hillsdale hotel try to raise \$30,000 before June in order to obtain \$60,000 more. Eugene A. Merrill of Minneapolis, a member of the class of 1872, offers \$20,000 and Ball Brothers, of Muncie, Ind., offer a similar sum.

**Kalamazoo**—Theron Pierce is facing a charge of unlawfully spearing bass in a Kalamazoo county lake, although he had received a letter written on paper from the state game warden's department saying such action was not unlawful.

**Albion**—The shooting of Andrew Stabill, a local Italian, is puzzling the local authorities. Stabill, who has no enemies as far as can be learned, was shot through the back while walking home from down town. He probably will live.

**Ann Arbor**—Daniel W. Barry, for many years drain commissioner of this county, is dead at his home in Northfield, after an illness of six months, which followed a severe fall last July in Milan. Mr. Barry died on the same farm where he was born and where he had lived all his life.

**Traverse City**—Grand Traverse cooperative fruit and produce exchange was organized here by leading fruit growers of Grand Traverse and Leelanau counties. A manager will be hired at once to begin work of marketing. The officers are: President, A. Bental, Old Mission; vice-president, C. W. Loeffler, Salon; secretary and treasurer, T. J. Morgan, Traverse City; directors, A. Bental, M. J. Gilmore, M. L. Gleason, C. W. Wheeler, T. B. Morgan, J. W. Markham, C. W. Loeffler.

**Saginaw**—Arrangements will be made for the annual convention of the Michigan Press and Printers' federation in Grand Rapids March 11, 12 and 13, at a meeting of the executive committee to be held here Friday. An effort will be made to have Arthur Brisbane of New York and several other newspapermen of national reputation speak at the convention. The secretary of the federation, J. B. Haskins, publisher of the Howard City Record, reports that the organization's membership is growing steadily.

**Lansing**—Michigan Historical commission presented to the members of the legislature copies of its report for 1914. The commission's report declares that there is urgent need for a building in which to store the valuable records which it has collected under state authority and to house the commission's historical collection, which has outgrown its quarters on the fourth floor of the capitol building. The commission complains that the last legislature intended to give it \$5,000 for salaries to its clerical force and \$5,000 more for expenses, but that the bill was vetoed so that the attorney general ruled it was limited to a single \$5,000. Its financial report shows that it expended \$5,006.59. While the report doesn't say so, the commission would like to have its appropriation bill so worded this time that it can really get the money.

**Cadillac**—Mrs. Charles Huesch could not understand why her son, Charles, twenty-four years old, slept so late. She called him, and, receiving no answer, entered his room, and found he had died of heart disease.

**Bay City**—In his report completed, John W. Coombs, superintendent of the poor, states that during the past three years he has collected \$1,296.24 from other counties, for the care of their poor by Bay county.

**Fargo**—As he sat at the dinner table joking with his wife and four children, Edward F. Young, thirty-two, toppled over dead.

**MARKET QUOTATIONS**

Live Stock, Grain and General Farm Produce.

Live Stock.

**DETROIT**—Cattle: Receipts, 1,088; market for canners steady and for all other grades 15¢ to 25¢ lower; best heavy steers, \$7.50@8; best heavy weight butcher steers, \$7@7.50; mixed steers and heifers, \$6.25@6.75; handy light butchers, \$6@6.50; light butchers, \$5.50@6; best cows, \$5.75@6; butchers cows, \$4.75@5.50; common cows, \$4@4.50; canners, \$3@4; best heavy bulls, \$6.50@7.75; bologna bulls, \$5.25@6; stock bulls, \$4.50@5.25.

**Veal Calves**: Receipts, 238; market dull and 25¢ to 50¢ lower; best, \$10@10.50; others, \$6@9.50.

**Sheep and lambs**: Receipts, 4,763; heavy lambs 100 to 119, average very dull; other grades steady; best lambs, \$8.25; fair lambs, \$7.50@8; light to common lambs, \$6@7.25; yearlings, \$7.25@7.50; fair to good sheep, \$4.50@5; culls and common, \$3@3.50; heavy lambs, \$7@7.50.

**Hogs**: Receipts, 6,738; all grades, \$6.80.

**EAST BUFFALO**—Receipts of cattle, 4,000; market 25¢ to 50¢ lower; prime steers, \$8.80@9; fair to good, \$8.15@8.35; plain, \$7.50@7.75; choice butcher steers, \$8.15@8.40; fair to good, \$7.50@7.75; best heavy steers, \$8.15@8.35; common to good, \$7@8; yearlings, \$7.75@8.75; prime heifers, \$7@7.35; common to good, \$6@6.75; best fat cows, \$6.30@6.75; good butcher cows, \$5.50@6; medium to good, \$4.75@5.50; cullers, \$4.25@4.50; canners, \$3.75@4; best bulls, \$6.75@7; good butcher bulls, \$6@6.75; sausage bulls, \$5.50@6; light bulls, \$4.75@5.15.

**Hogs**: Receipts, 20,000; market steady; heavy, \$7@7.10; yorkers, \$7.15@7.30; pigs, \$7.20@7.50.

**Sheep**: Receipts, 16,000; market active; top lambs, \$8.75@9; yearlings, \$6.50@7.50; wethers, \$6.30@6.50; ewes, \$5@6.

**Calves**: Receipts, 900; market slow; tops, \$12; fair to good, \$9.50@11; culls and common, \$6.50@9.50; grassers, \$4@5.50.

Grains, Etc.

**DETROIT**—Wheat: Cash No. 2 red, \$1.38; May opened with an advance of 1 1/2¢ at \$1.41 1/2, advanced to \$1.42, declined to \$1.41 1/2 and closed at \$1.42; July opened at \$1.30, advanced to \$1.30 1/2 and declined to \$1.30; No. 1 white, \$1.35.

**Corn**—Cash No. 3, 70¢; No. 3 yellow, 71¢; No. 4 yellow, 70¢.

**Oats**—Standard, 1 car at 54 1/2¢, 2 at 54¢; No. 2 white, 53 1/2¢; No. 4 white, 52 1/2¢.

**Rye**—Cash No. 2, \$1.14.

**Beans**—Immediate, prompt and January shipment, \$2.85; February, \$2.95; May, \$3.

**Cloverseed**—Prime spot, \$9.60; March, 500 bags at \$9.75; sample red, 30 bags at \$9.25, 24 at \$8.17 at \$8.50, 12 at \$8.25; prime alsike, \$9.30; sample alsike, 13 bags at \$7.75, 9 at \$7.25.

**Timothy**—Prime spot, \$3.45.

**Hay**—No. 1 timothy, \$16@16.50; No. 2, timothy, \$14@14.50; No. 1 mixed, \$13@13.50; No. 2 mixed, \$10@12; light mixed, \$15@15.50; No. 1 clover, \$13@13.50; No. 2 clover, \$10@12; rye straw, \$7.50@8; wheat and oat straw, \$7@7.50 per ton.

**Flour**—In one-eighth paper sacks, per 196 lbs., jobbing lots: Best patent, \$7.10; second patent, \$6.80; straight, \$6.10; spring patent, \$7.30; rye flour, \$6.30 per bbl.

**Feed**—In 100-lb sacks, jobbing lots: Bran, \$28; standard middlings, \$28; fine middlings, \$32; coarse cornmeal, \$30; cracked corn, \$34; corn and oat chop, \$27 per ton.

General Markets.

**Apples**—Jonathan, \$3@3.50; Baldwin, \$2.50@2.75; Greening, \$2.75@3; Spy \$3@3.25; Steele Red, \$3.50; Ben Davis, \$1.50@1.70 per box; No. 2, 40¢ @50¢ per bu.

**Rabbits**—\$1.50@1.75 per doz.

**Cabbage**—\$1.75 per bbl.

**Dressed Hogs**—Light, 8 1/2¢@9¢; heavy, 7@7 1/2¢ per lb.

**Onions**—\$1 per 100 lbs. in bulk and \$1.25 per 100 lbs. in sacks.

**Dressed Calves**—Fancy, 12 1/2¢@13¢; common, 9¢@10¢ per lb.

**Sweet Potatoes**—Jersey kiln-dried, \$1.50@1.60; hampers, \$1.50.

**Honey**—Choice to fancy new, white comb, 15¢@16¢; amber, 10¢@11¢; extracted, 8¢@9¢ per lb.

**Potatoes**—Carlots, 30¢@33¢ per bu in bulk and 36¢@40¢ per bu in sacks; from store, 40¢@45¢ per bu.

**Live Poultry**—Spring chickens, 13¢@14¢; heavy hens, 12 1/2¢@13¢; No. 2 hens, 8¢; old roosters, 9¢@10¢; ducks, 13¢@14¢; geese, 12¢@13¢; turkeys, 17¢@18¢ per lb.

**Cheese**—Wholesale lots: Michigan flats, 14¢@14 1/2¢; New York flats, 15 1/2¢@15 3/4¢; brick, 14¢@14 1/2¢; limburger, 14 1/2¢@15 1/2¢; imported Swiss, 30¢@32¢; domestic Swiss, 19¢@20¢; long horns, 15¢@15 1/4¢; daisies, 15¢@15 1/4¢ per lb.

**Tomatoes**—Hothouse, 20¢@25¢ per lb; Florida, \$4@4.50 per crate and 90¢ per basket.

**Hides**—No. 1 cured, 18 1/2¢; No. 1 green, 16 1/2¢; No. 1 cured bulls, 13 1/2¢; No. 1 green bulls, 12¢; No. 1 cured veal kip, 19¢; No. 1 green veal kip, 17 1/2¢; No. 1 cured murrain, 15¢; No. 1 green murrain, 13¢; No. 1 cured calf, 20¢; No. 1 green calf, 20¢; No. 1 horsehides, \$5; No. 2 horsehides, \$4; No. 2 hides 1¢ and No. 2 kip and calf 1 1/2¢ lower than the above; sheepskins, as to amount of wool, 50¢@1.25.

**Canadian Wheat to Feed the World**

The war's fearful devastation of European crops has caused an unusual demand for grain from the American Continent. The people of the world must be fed and there is an unusual demand for Canadian wheat. Canada's invitation to every industrious American is therefore especially attractive. She wants farmers to make money and happy, prosperous homes for themselves while helping her to raise immense wheat crops.

**You can get a Homestead of 160 acres FREE** and other lands can be bought at remarkably low prices. Think of the money you can make with wheat at its present high prices, where for some time it is liable to continue. During many years Canadian wheat fields have averaged 20 bushels to the acre—many yields as high as 45 bushels to the acre. Wonderful crops also of Oats, Barley and Flax.

Mixed farming is fully as profitable an industry as grain raising. The excellent grasses, full of nutrition, are the only food required either for beef or dairy purposes. Good schools, markets convenient, climate excellent.

Military service is not compulsory in Canada, but there is an extra demand for farm labor to replace the many young men who have volunteered for the war. The Government this year is urging farmers to put extra acreage into grain. Write for literature and particulars as to reduced railway rates to Superintendent Immigration, Ottawa, Canada, or M. V. McInnes, 176 Jefferson Ave., Detroit, Mich. Canadian Government Agent.

We hope it isn't true that some of the married men in England went to war for the sake of peace.

Happy is the home where Red Cross Ball Blue is used. Sure to please. All grocers. Adv.

The Natural Kind. "What kind of ships do they have dog watches on?" "Why, barks, of course."

YOUR OWN DRUGGIST WILL TELL YOU that Sloan's Liniment is the best remedy for rheumatism, neuralgia, sciatica, sprains and bruises. It is a powerful antiseptic and germicide. Pleasant to use; does not blister under bandage or remove the hair, and you can work the horse. \$2.00 per bottle, delivered. Book 7 K free.

The Bore. "I hate to ask Jinks about his health." "Why?" "He promptly tells me all about it."

Too Small to Harm. The Mother—I see a triangular tray to hold a piece of pie unharmed in a lunch box has been invented.

The Boy—But who would harm such a little piece of pie as you cut, mamma?

Important to Mothers. Examine carefully every bottle of CASTORIA, a safe and sure remedy for infants and children, and see that it bears the Signature of J. C. Fletchman In Use For Over 30 Years. Children Cry for Fletcher's Castoria

The Better Method. The deacons of a church were discussing possible ways of ridding themselves of an undesirable pastor who paid no heed to pointed suggestions that his resignation would be acceptable. Finally one of the deacons said: "If we make a large reduction in his salary it would probably have the effect of making him resign."

"I know a surer way than that," said the other deacon. "Let us double his salary and he will fall dead."

THE PROFESSOR'S STATEMENT. Prof. Aug. F. W. Schmitz, Thomas, Okla., writes: "I was troubled with Backache for about twenty-five years. When told I had Bright's Disease in its last stages, I tried Dodd's Kidney Pills. After using two boxes I was somewhat relieved and I stopped the treatment. In the spring of the next year I had another attack. I went for Dodd's Kidney Pills and they relieved me again. I used three boxes. That is now three years ago and my Backache has not returned in its severity, and by using another two boxes a little later on, the pain left altogether and I have had no trouble since. You may use my statement. I recommend Dodd's Kidney Pills when and wherever I can." Dodd's Kidney Pills, 50¢ per box at your dealer or Dodd's Medicine Co., Buffalo, N. Y.—Adv.

The Attraction. Bacon—I understand in many of the Chilean cities women are employed as street car conductors.

Egbert—Now I can understand why men want to crowd the back platforms.

WHY NOT TRY POPHAM'S ASTHMA MEDICINE? Gives Prompt and Positive Relief