

Loss of Appetite

Is loss of vitality, vigor or tone, and is often a forerunner of prostrating disease.

It is serious and especially so to people that must keep up and doing or get behindhand.

The best medicine to take for it is the great constitutional remedy

Hood's Sarsaparilla

Which purifies and enriches the blood and builds up the whole system.

Get it today in the usual liquid form or chocolate tablets called Sarsatabs.

ASTHMA

Or heart trouble: what to do when the case is not clear.

DR. DOUGLAS, D. C.

338 Union Avenue N., Portland, Or.

Machinery

Second-hand Machinery, every kind, and exchanged engines, boiler, sawmills, etc.

The J. E. Martin Co., 70 1st St., Portland. Send for Stock List and prices.

Wanted--Men and Women

To learn barber trade. Tools free. Wages while learning. Position guaranteed. International Barber School, 429 E. 5th St., Los Angeles, Cal.

RUBBER STAMPS

Stamps, Stencils and Brass Stamps. Calligraphic Buttons and Ribbon Pads. Good Goods. Quick Service. Send for complete Catalogue No. 24. Acme Stamp Works, 1015 A St., Tacoma, Wash.

RAW FURS

We positively pay the highest market prices, as we are manufacturers and therefore can pay more than dealers. Send for free price list and shipping rates and get full value for your skins. N. M. Ungar Co., The Reliable Furriers, 202 1/2 7th St., Portland, Ore.

Fingernail Photography.

"Would you like your sweetheart's portrait placed on your fingernails?" is a unusual query at most of the well known manicurists just now.

The new fad grew out of a whim of a pretty cousin of the Kaiser who had an enameled portrait of her fiancé worked on the nail of her little finger.

The portrait was a gem of art in its way and cost \$50. The manicurists took up the idea, and now, for a small fee of 20 marks—about \$5—you can have anyone's photograph placed on your fingernail.

The main skill of the manicurist consists in rendering the photograph watertight; which is done by coating it over with a shellac-like substance, which is burned upon the nail. This is the only painful element of the strange process.

Quite a number of society dames have taken to the idea and everywhere you go you see fingernail photography. Mothers have pictures of their favorite and prettiest children placed on their fingernails; young men and maidens display their sweethearts in the same fashion, and the fad has spread marvelously since it was first introduced.

A portrait on a fingernail will last with careful handling, about four months without renewal.

Great Value of Coconut.

The coconut is not only valuable as a source of food and drink in tropical countries, but is also the best of all trees for shade.

FERRY'S

Plant breeding and selecting has been our business for years. We market the results in the shape of thousands of vegetable and flower seeds. They grow good crops.

1912 SEED ANNUAL FREE ON REQUEST. D. M. Ferry & Co., Detroit, Mich.

SEEDS

We handle plate and plate work for out-of-town patrons in one day if desired. Painless extraction from which pain or swelling work is entirely eliminated. Consultation free.

Molar Crown \$5.00. 22k Bridge Teeth \$4.00. Gold Fillings 1.00. Enamel Fillings 1.00. Silver Fillings .50. Silver Inlays .50. Plates. Steel and Rubber. Plates. 7.50. Painless Extr. \$1.50. 25 YEARS ESTABLISHED IN PORTLAND. All work fully guaranteed for fifteen years.

Wise Dental Co., Inc.

Painless Dentists. Filling Building, Third and Washington. PORTLAND, ORE. Office Hours: 8 A. M. to 5 P. M. Sundays, 9 to 1.

Painless Dentistry

Is our pride—our hobby—our study for years and now our success, and ours is the best painless work to be found anywhere, no matter how much you pay. Compare our Prices.

We handle plate and plate work for out-of-town patrons in one day if desired. Painless extraction from which pain or swelling work is entirely eliminated. Consultation free.

Molar Crown \$5.00. 22k Bridge Teeth \$4.00. Gold Fillings 1.00. Enamel Fillings 1.00. Silver Fillings .50. Silver Inlays .50. Plates. Steel and Rubber. Plates. 7.50. Painless Extr. \$1.50. 25 YEARS ESTABLISHED IN PORTLAND. All work fully guaranteed for fifteen years.

How to Get Well and Keep So.

DR. WO

The eminent Chinese doctor, treats with non-poisonous, non-injurious herbs and cures such diseases as the Throat, Heart, Liver, Lungs, Stomach, Kidneys, Asthma, Pneumonia, Consumption, Chronic Cough, Piles, Constipation, Dysentery, Nervousness, Diabetes, Neuritis, Rheumatism, Gout, Lumbago, Appendicitis, Rheumatism, Catarrh, Eczema, Etc.

CONSULTATION FREE. It is better to call than write, but those who are unable to come, send 4 cents in stamps and secure symptom blank. After carefully giving symptoms these wonderful health-giving herbs can be secured, which will put you on the road to recovery.

Wo Chinese Medical Co. 250 1/2 Alder St. Cor. Third, Portland, Or.

PISO'S REMEDY

Best Cough Syrup. Tastes Good. Use in time. Sold by Druggists.

FOR COUGHS AND COLDS

VARIOUS AGENCIES CONCERNED IN FORMATION OF THE SOIL

Two Things Suggested to Farmer to Prevent Exhaustion of Fertility—First Is to Assist Nature by Means of Good Tillage and Second Is Use of Manure and Fertilizers.

(By ALFRED VIVIAN.)

Vegetation begins with the very simplest forms of plants, such as lichens and mosses, and is, of course, very scanty at first. These plants on dying become a part of the soil, all of the plant nutrients used by them being thus returned.

Food that has once been used by plants is very readily made available to succeeding crops through the process of decay. The soil is now able to produce a larger crop, as it contains the plant food in the previous growth in addition to that added through the agencies detailed above.

In this way the growth gradually becomes more abundant. The plants upon decaying give rise to humus, and this increases the fertility of the land both by being a source of plant food and by increasing the water-retaining power. Humus is a very important factor in fertility. During the decomposition of the plants, acid substances are formed which act upon the rocks in such a way as to make more of the plant food available.

One of the products of decay or fermentation is carbonic acid gas, and this is dissolved in the soil water, and this gas-containing water is an important help in disintegrating the rocks.

As the nutritive materials increase from these various causes the lower simpler forms of plant life are gradually replaced by those which are more highly organized.

With the advent of plants, like our common crops, which bear roots, other factors in the formation of soils are introduced. The roots secrete an acid substance that has a solvent effect on the mineral matter of the soil, and the roots themselves also assist mechanically in breaking down the rocks.

All are familiar with the tremendous force exerted by plants in breaking apart rocks and stones if once their tender rootlets obtain a foothold in a crevice.

The roots penetrate the soil sometimes to great depths, and, as they decay after the death of the plant, they leave little channels in the soil which serve to carry down water laden with carbonic acid, as well as to introduce the oxygen of the air, that, in its turn, is a factor in bringing about chemical changes in the soil, which assist in making plant food available.

Sooner or later in the process of soil formation, plants of the pulse family (leguminous plants), such as clover, vetches, lupines, etc., are introduced.

If you dig up some of these plants you will find little nodules or tubercles on their roots. These nodules are the homes of numerous bacteria, which enable the plants to derive part of their food from the nitrogen of the atmosphere.

This peculiar property of leguminous plants is of great importance, for it is undoubtedly nature's principal method of increasing the supply of nitrogen in the ground.

It will readily be understood that the various agencies concerned in the formation of the soil do not act separately nor necessarily in any such order as that in which they have been discussed.

As a matter of fact all the processes described take place simultaneously. The lower plants do not wait for the rocks to be pulverized, for we see such organisms as the lichens growing on rocks from which one would think it impossible to obtain food.

If the lichen is removed, grooves or furrows will be found on the surface of the stone, due to the action of the plant.

Nor are all soils formed directly from the original rocks, for one of the effects of weathering, etc., is to separate such rocks as the granites into simpler substances, with the result, for example, that huge deposits of limestone are formed in one place, and in another whole hills of sandstone.

The soil is almost constantly moving, for some of the same agencies which form soils are continually carrying them away. Running water, grinds the rocks, but at the same time transports the fine particles to lower levels. It cuts deep valleys in the surface of the earth and carries away the debris, depositing it at various distances from its source.

This study of the formation of the soil then suggests two things that the farmer can do to prevent the exhaustion of the fertility.

The first is to so treat the soil as to assist and hasten nature in the process of converting the plant food into available forms by means of good tillage.

The second is to return to the soil by means of manure and fertilizers an amount of plant food equivalent to that removed by the crop.

DAIRY LESSONS AT STATE FAIR

Care Taken By Operator in Handling Milk to Prevent Contamination Was Revelation to Spectators.

(By R. G. WEATHERSTONE.)

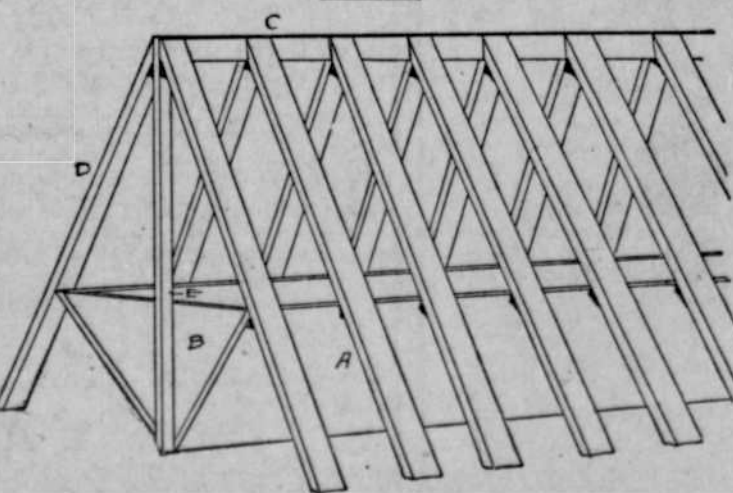
One of the most practical lessons of our state fair this fall was that taught by the state agricultural college which had set up in an amphitheater holding about 1,000 persons, a complete modern dairy. In this dairy all the operations of separating milk, testing it with the Babcock tester and making butter were performed daily and the amphitheater was never large enough to hold the interested crowds.

The care taken by the operator to prevent contamination of milk and butter was evidently a revelation to many of the farmers and their wives, as exclamations of surprise were frequently heard when the utensils were washed and scrubbed again and again, plunged into hot water and the whole process of butter making gone through without once having been touched by a human hand.

The spectators were for the most part composed of practical dairy workers more or less versed in their business. They asked innumerable questions upon every phase of dairying, often showing almost perfect knowledge of the business; but the operator in charge, a remarkably well informed and alert young man, never failed to give instant and satisfactory reply.

Two demonstrations daily were made in this dairy and during the five days of the fair it is safe to say that 10,000 persons received valuable instruction in the way of object lessons in good dairying.

EFFECTIVE PIG TROUGH GUARD



To prevent hogs getting their feet into trough the arrangement shown above is effective. The width of the side boards depend upon the size of the pigs to be fed. A small trough, with six inch side boards, may be used for the small pigs, and 12 to 16 inch pieces for breeding sows. The size of pieces C and D depend upon the weight of the animals and the strain likely to come on the frame. For pigs of ordinary weight, a piece 2 by 4 inches should be used for the ridge pole D and pieces 1 by 3 or 2 by 2 inches

for the guard bars D. These should be securely nailed to the side of the trough in the pig house, spiked to the floor to prevent breaking off. The upright E, firmly spiked to B, secures endwise rigidity. For delivering slop to the trough, a spout or small trough is arranged to enter at the end of the feed trough. With this arrangement, when the distance between the bars has been properly adjusted to the size of the animal, only one can get to the trough between each space, and all sideways crowding is prevented.

YOU CAN ASSIST YOUR WEAK STOMACH

back to its normal condition by taking a short course of

HOSTETTER'S STOMACH BITTERS

It tones and invigorates, also prevents Poor Appetite, Indigestion, Heartburn, Costiveness, Colds, Grippe and Malaria.

TRY A BOTTLE TODAY.

Simple Allegory.

A Tear said to the Smile: "Mamma is gone; let us have a race." They started. Sometime the Tear was ahead; then again little Smile appeared. At last the Tear went in full speed, and had nearly won—but there, Smile saw mamma in the door—and won the race.

If you use Eye Salve use the best. PETTIT'S EYE SALVE is the standard, reliable and costs no more than inferior goods that are unknown. Used by Physicians and Oculists, helps where all others fail. It is not the TUBE or BOX that cures, it is the SALVE that does the work. Guaranteed by Howard Bros. under the Government Food and Drugs Act. Don't be deceived or misled. The only really antiseptic Eye Salve that has been in the market for years. Sold by Druggists throughout the known world.

Why Old Myths Survive.

The destroyers of fine dramatic myths tell us nowadays that the Caliph Omar did not burn the ancient library of Alexandria, and therefore did not have a chance to say that all the books in it that agreed with the Koran were superfluous, and all that disagreed with the Koran were pernicious. Doubtless the perennial freshness and vitality of the tale are due to an everlasting normal human hatred of weed-grown, literary graveyards.

Only One "BROMO QUININE"

That is LAXATIVE BROMO QUININE. Look for the signature of E. W. GROVE. Used the World over to Cure a Cold in One Day. 25c.

Called.

"I asked the audience to lend me their ears," said the verbose speaker. "But in three-quarters of an hour they were dozing." "I see," replied the financier. "They called the loan."

Nailed.

Housekeeper—Here, drop that coat and clear out! Burglar—You be quiet, or I'll wake your wife and give her this letter I found in your pocket.

ASK YOUR DEALER FOR BOSS SQUIRREL POISON. BLUEMATH, FRANK DRUG CO.

ALBERS BROS. DAIRY FEED BEST AND CHEAPEST. ALBERS BROS. MILLING CO. PORTLAND, OREGON.

DENTIST. Do you want to be your own dentist? Do you want to do away with big dental bills and the dread of the dental chair? Do you want to have good, sound and beautiful teeth? If you use Fuchi Dental Paste it will absolutely prevent decay and give to the teeth that pearly white appearance and to the gums the firmness and color of health. Tubes, 50c large tube, \$1.

YOUTH AND BEAUTY. Preserve the beauty and youthful appearance of the face by the application of Fuchi Massage Cream, which feeds the skin, thereby filling out and preventing wrinkles and destroying blackheads, and gives the skin the blush and glow of youth. The marvelous complexion of the high class Oriental, which has been a mystery to Europeans, is due to the use of preparations made from this receipt. Put up in glass, \$1.

True Patriotism. Patriotism is not boastfulness nor the depreciation of other nations. The patriotism that tells is that which is felt, not proclaimed.

PUTNAM FADELESS DYES

Color more goods brighter and faster colors than any other dye. One 10c package colors silk, wool and cotton equally well and is guaranteed to give perfect results. Ask dealer, or we will send postpaid at 10c a package. Write for free booklet how to dye, bleach, and mix colors. MONROE DYE COMPANY, Quincy, Illinois.

FAMOUS MAKERS OF RUGS. In the cities of Harput and Sivas are several firms engaged in the manufacture of rugs of the best grade and quality. In Sivas there are 500 looms, with about 1,500 operatives, and in Harput about one-third that number of looms and operatives. Nearly all the output of the Sivas looms is sold in Europe, while the output of the Harput looms is shipped to America.

Free to Our Readers. Write Murine Eye Remedy Co., Chicago, for 64-page illustrated Eye Book Free. Write all about Your Eye Trouble and they will advise as to the Proper Application of the Murine Eye Remedies in Your Special Case. Your Druggist will tell you that Murine Relieves Sore Eyes, Strengthens Weak Eyes, Doesn't Smart, Soothes Eye Pain, and sells for 50c. Try it in Your Eyes and in Baby's Eyes for Sore Eyelids and Granulation.

Editor Evidently Not Musician. Cristofali, a native of Padua, produced the first piano in 1710. Now that we know the miscreant's name we feel easier.—Exchange.

Treat Fear as an Enemy. Stamp out fear in the child. Teach it nothing to make it fear. So will you make the sane, normal man and woman.

W. L. DOUGLAS

\$2.25, \$2.50, \$3, \$3.50, \$4 & \$5 SHOES

All Styles, All Leathers, All Sizes and Widths, for Men, Women and Boys.

THE STANDARD OF QUALITY FOR OVER 30 YEARS

THE NEXT TIME YOU NEED SHOES

give W. L. Douglas shoes a trial. W. L. Douglas name stamped on a shoe guarantees superior quality and more value for the money than other makes. His name and price stamped on the bottom protects the wearer against high prices and inferior shoes. Insist upon having the genuine W. L. Douglas shoes.

Take no substitute. First Color Remedy used exclusively.

HOW TO ORDER BY MAIL. Shoes Sent Everywhere—All Charges Prepaid.

If W. L. Douglas shoes are not sold in your town, send direct to factory. Take measurements of foot as shown in model; state style desired, size and width usually worn; color or capsize; heavy, medium or light sole. I do the largest shoe mail order business in the world. Hiss Catalogue Free. W. L. DOUGLAS, 145 South St., Boston, Mass.

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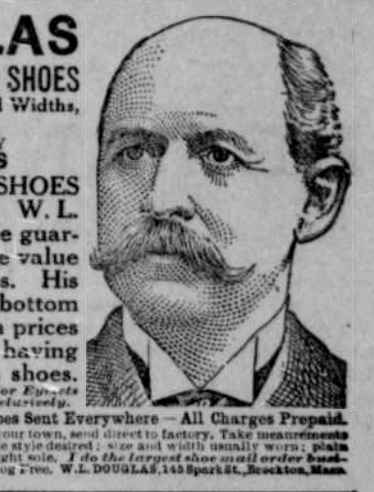
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Stimulant or Tonic?

Ayer's Sarsaparilla is not a stimulant. It does not make you feel better one day, then as bad as ever the next. There is not a drop of alcohol in it. Ayer's Sarsaparilla is a tonic. You have the steady, even gain that comes from such a medicine. Ask your doctor all about this. Trust him fully and always do as he says. He knows.

Who makes the best liver pills? The J. C. Ayer Company, of Lowell, Mass. They have been making Ayer's Pills for over sixty years. If you have the slightest doubt about using these pills, ask your doctor. Ask him first, that's best. Made by the J. C. AYER CO., Lowell, Mass.



KILLS GOPHERS, SAGE RATS, SQUIRRELS AND PRAIRIE DOGS. "WOODLARK" SQUIRREL POISON. "THE BRAND THAT KILLS". REQUIRES NO MIXING OR PREPARATION. ALWAYS READY FOR USE WHEN YOU BUY, DEMAND THE BEST. GET THE "WOODLARK BRAND". MONEY BACK IF NOT AS CLAIMED. CLARKE, WOODWARD DRUG CO., PORTLAND, ORE.

FOR PINK EYE. DISTEMPER CATARRHAL FEVER AND ALL NOSE AND THROAT DISEASES. Cure the sick and acts as a preventive for others. Liquid Eye Remedy; 50 cents and \$1 a bottle; \$3 and \$10 the dozen. Sold by all druggists and horse goods houses, or sent, express paid, by the manufacturers. SPOHN MEDICAL CO., Chemists, Goshen, Ind.

Ray-Killed Bacteria. A method for sterilizing milk without heating or adding preservatives is claimed to have been effectively demonstrated recently in Holland. An apparatus has been constructed, it is explained, whereby the milk flows in a thin stream along an electric light, the ultra-violet beams working on the bacteria. The result is attributed to the quality of the ozone formed under the influence of the light.—The Argonaut.

SMILE ON WASH DAY. The laundress' delight is RED CROSS BALL BLUE. A neat, handy package, nothing to break or spill, and a blue that is all blue. It is so far superior to any liquid bluing that there is no comparison. Always produces snow white clothes. Large package 10 cents. ASK YOUR GROCER.

Scotch Alarm Clock. A tourist in rural Scotland took refuge for the night in the cottage of an old lady. He asked her to wake him up early in the morning, warning her that he was quite deaf. Upon awakening much later than the appointed hour he found that the old lady, with strict regard for the proprieties, had slipped under the door a slip of paper upon which was written: "Sir, it's half past eight."

Tightness across the chest means a cold on the lungs. That's the danger signal. Cure that cold with Hamlin's Wizard Oil before it runs into Consumption or Pneumonia.

Furniture Polish. Many people do not know that lemon oil is the basis of all fine furniture polishes. A small bottle of polish usually costs 25 cents. You can buy a quart of crude lemon oil in bulk at a paint shop for 15 cents. For using on furniture proper, dilute with one-third turpentine, apply with a soft rag, and you will have the finest polish you could buy. It is fine to use on hard wood, stained or painted floors. A quart of oil will last nearly two months.

FILES CURED IN 6 TO 14 DAYS. Your druggist will refund money if PAZO OINTMENT fails to cure any case of Itching, Blind, Bleeding or Protruding Piles in 6 to 14 days. 50c.

True Patriotism. Patriotism is not boastfulness nor the depreciation of other nations. The patriotism that tells is that which is felt, not proclaimed.

PUTNAM FADELESS DYES. Color more goods brighter and faster colors than any other dye. One 10c package colors silk, wool and cotton equally well and is guaranteed to give perfect results. Ask dealer, or we will send postpaid at 10c a package. Write for free booklet how to dye, bleach, and mix colors. MONROE DYE COMPANY, Quincy, Illinois.

BAKER'S Su-Kola Tablets

Best Nerve and Kidney Tonic on Earth

Before Taking. After Taking. Will make you sleep better, not better, because they rebuild your broken-down nerves. Act on the kidneys and give permanent relief for backache and all bladder troubles. Sold only by the MURPHY DRUG CO., 235 Burnside St., Cor. Fifth, Portland, Oregon. 25c a box, 5 boxes \$1.00, by mail, postage paid.

KOW-KURE. FOR SICK COWS. Healthy cows give more milk, make richer butter, and require less care. KOW KURE is a cow medicine, not a food. It regulates the digestive and generative organs and tones up the entire system. A positive cure and preventive for LOST APPETITE, BARRENNESS, ABORTION, SCOURS, MILK FEVER, and all other ailments that sap the strength of milking cows. Thousands of profitable herds owe their life to KOW KURE. Be sure to send for our valuable free book, "More Money From Your Cows." DAIRY ASSOCIATION CO., MFRS. Lyndonville, Vt., U. S. A.

FOR SICK COWS. Healthy cows give more milk, make richer butter, and require less care. KOW KURE is a cow medicine, not a food. It regulates the digestive and generative organs and tones up the entire system. A positive cure and preventive for LOST APPETITE, BARRENNESS, ABORTION, SCOURS, MILK FEVER, and all other ailments that sap the strength of milking cows. Thousands of profitable herds owe their life to KOW KURE. Be sure to send