

Pure Blood

Is certain if you take Hood's Sarsaparilla. This great medicine cures those eruptions, pimples and boils that appear at all seasons; cures scrofula sores, salt rheum or eczema; adapts itself equally well to, and also cures, dyspepsia and all stomach troubles; cures rheumatism and catarrh; cures nervous troubles, debility and that tired feeling.



Sarsaparilla—For those who prefer medicine in tablet form, Hood's Sarsaparilla is now put up in chocolate tablets called Sarsatabs, as well as in the usual liquid form. Sarsatabs have identically the same curative properties as the liquid form, besides accuracy of dose, convenience, economy—no loss by evaporation, breakage, or leakage. Druggists or promptly by mail. C. I. Hood Co., Lowell, Mass.

Shifting the Responsibility.

Teacher—Mrs. Clubber, your little Clarence frequently comes to school with his face un washed.

Mrs. Clubber—Why, good gracious, Miss Lipsicum, what do you keep a school janitor for!—Chicago Tribune.

Mothers will find Mrs. Winslow's Soothing Syrup the best remedy to use for their children during the teething period.

The thimble was at first worn on the thumb and was called "thumbell."

A cork carried to a depth of 200 feet below the surface of the sea will not rise again owing to the great pressure of water.

FITS—St. Vitus' Dance and all Nervous Diseases permanently cured by Dr. Kline's Great Nerve Restorer. Send for FREE trial bottle and treatise. Dr. R. H. Kline, 14, 161 Arch St., Phila., Pa.

No Time for That.

Philanthropic Woman (giving him a coin)—You work, I suppose, when you can find employment?

Saymold Storey—Work? When I ain't eatin' and sleepin', ma'am, my entire time is occupied in solicitin' work!

CASTORIA

For Infants and Children.

The Kind You Have Always Bought!

Bears the Signature of *Wm. D. Feltcher*.

Suggesting an Improvement.

Customer (at dairy lunch counter)—You have to pay out a good deal of money for the ginger you use, do you not?

Proprietor—Ginger? Why, no; ginger's cheap.

Customer—Then why don't you feed some of it to your waiters?

There is more Catarrh in this section of the country than all other diseases put together and until the last few years was supposed to be incurable. For a great many years doctor pronounced it a local disease and prescribed local remedies, and by constantly failing to cure with local treatment, pronounced it incurable. Science has proven Catarrh to be constitutional disease and therefore require constitutional treatment. Hall's Catarrh Cure manufactured by F. J. Cheney & Co., Toledo, Ohio, is the only constitutional cure on the market. It is taken internally in doses from 1 drop to a teaspoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address: F. J. CHENEY & CO., Toledo, Ohio. Sold by Druggists. Take Hall's Family Pills for constipation.

A Flatterer.

"Yes, ma'am, the convict was saying, 'I'm here just for trying to flatter a rich man.'"

"The idea!" exclaimed the prison visitor.

"Yes, ma'am. I just tried to imitate his signature on a check."—Tit-Bits.

PORTLAND CEMENT.

Ingredients Necessary in the Manufacture of This Product.

By J. Shirley Jones, Chemist, Idaho Experiment Station, Moscow.

From time to time the members of the experiment station staff are asked for information concerning the properties, composition, and methods of manufacture of Portland cement. These inquiries are usually answered by the station chemist. Below is given a typical letter of inquiry on this subject, and following it is the reply given by the station chemist.

Weiser, Ida., Feb. 26, 1908.

I would like to know the ingredient and process of making Portland cement. Is the body of clay or soapstone? I think I have the raw material. Please answer and oblige.—A. W.

A great deal of time and labor have been spent by various chemists in investigating the composition and properties of Portland cement. The conclusions drawn from these investigations are not always concordant, but no one dissents from the view that the essential ingredients of this kind of cement are lime, silica and alumina. Other elements are always present, however, among them being magnesia, soda, potash, iron, phosphorus, manganese, titanium, etc. According to Meade, good cements vary considerably in composition, but the three important ingredients will run about as follows: Lime, 58 to 67 per cent; silica, 19 to 25 per cent; alumina, 5 to 10 per cent; and magnesia is allowable to the extent of 3 to 5 per cent.

The raw materials from which Portland cement is manufactured are classified as argillaceous and calcareous. Some common forms of the first are clay, shale, and slate, and of the latter limestone, marl and chalk. In these two classes of raw materials are found all the ingredients necessary in the manufacture of Portland cement. In the iron regions of Pennsylvania, however, blast furnace slag is made to replace the clay or shale. From whatever source the raw materials are obtained, the cement manufacturer must see that they are so mixed that the product of calcination contains the important compounds mentioned above in the proportions that experience has taught are the ones necessary in a good cement. It becomes almost imperative then that the chemical composition of the raw materials should be known.

Although the writer is not personally acquainted with the limestone regions of this state, it appears that there are at least two localities in Northern Idaho where limestone is found in abundance, and since clay is also present, at least in spots, in the same district, there seems to be good reason for believing that in the future a great deal of the Portland cement used in this state will be made at home.

Of Interest to Farmers.

The following publications of interest to farmers and others have been issued by the Agricultural department of the Federal government and will be furnished free, so long as they are available, except where otherwise noted, upon application to the Superintendent of Documents, Government Printing Office, Washington, D. C.:

Bulletin No. 100.—Report of Irrigation Investigations in California, under the direction of Elwood Mead, expert in charge. Pp. 411, pls. 29, figs. 16. Price, paper, 90 cents; cloth, \$1.25. This report deals with investigation carried on during the summer of 1900 in cooperation with the California Water and Forest Association. In addition to a review of the agricultural situation in the state, it presents a comprehensive discussion of the water laws and customs under which irrigation is practiced in California as typified by the conditions in Honey Lake basin and on Yuba river, Cache creek, Salinas river, San Joaquin river, Kings river, Los Angeles river, Sweetwater river and San Jacinto river. It describes the methods and means by which water is diverted from these streams and used for irrigation and the indefinite and excessive appropriations of water and the resulting litigation, and discusses the evils resulting from absence of state control of streams.

Bulletin No. 105.—Irrigation in the United States. Testimony of Elwood Mead, irrigation expert in charge, before the United States Industrial commission, June 11 and 12, 1901. Pp. 47, pls. 12, fig. 1. Price 15 cents. The statement made before the Industrial commission deals chiefly with the legal status of irrigation, touching on state control, national aid to irrigation, and the disposal of the public grazing lands. The necessity and possibility of storage are also discussed.

Bulletin No. 133.—Report of Irrigation Investigations for 1902, under the direction of Elwood Mead, chief of irrigation investigation, office of experiment stations. Pp. 266, pls. 12, figs. 16. Price 25 cents. This bulletin gives the result of the fourth season's investigations of the problems of irrigation, the results obtained in similar investigations in previous years being reported in Bulletins 86, 104 and 119, of this office noted above.

Canned Pumpkin.

Peel the pumpkin, cut into pieces and cover with boiling water. Stew until very tender, then rub through a colander. Return to the fire, bring to a hard boil, sweeten to taste and, while boiling, fill the overflowing hot jars and seal immediately.

Sponge Drop Cakes.

Three eggs, one and one-half cups sugar, two cups flour, one-half cup cold water, two teaspoonfuls baking powder, one teaspoonful extract lemon. Beat the eggs without separating, add the sugar, water, flour and baking powder sifted together, and flavoring. Bake in muffin pans or cups in quick oven.

New York has 67,006,000,000 gallons of water stored away in its mountain reservoir.

The Evolution of Household Remedies.

The modern patent medicine business is the natural outgrowth of the old-time household remedies.

In the early history of this country, EVERY FAMILY HAD ITS HOME-MADE MEDICINES. Herb teas, bitters, laxatives and tonics, were to be found in almost every house, compounded by the housewife, sometimes assisted by the apothecary or the family doctor. Such remedies as pears, which was aloe and quassa, dissolved in apple brandy. Sometimes a hop tonic, made of whiskey, hops and bitter bark. A score or more of popular, home-made remedies were thus compounded, the formulae for which were passed along from house to house, sometimes written, sometimes verbally communicated.

The patent medicine business is a natural outgrowth from this wholesome, old-time custom. In the beginning, some enterprising doctor, impressed by the usefulness of one of these home-made remedies, would take it up, improve it in many ways, manufacture it on a large scale, advertise it mainly through almanacs for the home, and thus it would become used over a large area. LATTERLY THE HOUSEHOLD REMEDY BUSINESS TOOK A MORE EXACT AND SCIENTIFIC FORM.

Peruna was originally one of these old-time remedies. It was used by the Menonites, of Pennsylvania, before it was offered to the public for sale. Dr. Hartman, THE ORIGINAL COMPOUNDER OF PERUNA, is of Menonite origin. First, he prescribed it for his neighbors and his patients. The sale of it increased, and at last he established a manufactory and furnished it to the general drug trade.

Peruna is useful in a great many climatic ailments, such as coughs, colds, sore throat, bronchitis, and catarrhal diseases generally. THOUSANDS OF FAMILIES HAVE LEARNED THE USE OF PERUNA and its value in the treatment of these ailments. They have learned to trust and believe in Dr. Hartman's judgment, and to rely on his remedy, Peruna.

Giving an Illustration.

Voice (over the telephone)—"Professor, I am getting up a special article for one of the illustrated weekly papers on 'The Value of the Comparatively Unimportant.' Please tell me, for instance, one of your methods of saving your odds and ends of time, by which you are enabled to do so much work without having to hurry."

The Professor—"Always omitting the 'good-by' when using the telephone." (Hangs up receiver.)

Not Yet, but Soon.

"Say," wired the chairman of the Skunk campaign committee, "can't you send us speakers of better caliber than the chaps that talked here last night?"

"We're merely firing the opening guns of the campaign," wired back the political manager at headquarters. "We'll send you some bigger bores after awhile."

To Fit the Crime.

"I reckon I'm guilty, y'r honor," snuffed the leathery faced old vagabond who had been run in for drunkenness and general worthlessness, "but it ain't my fault."

"Whose fault is it?" inquired the police justice.

"It's the fault of my brother-in-law an' my sister-in-law. They won't let me live with 'em any more. When a feller's in-laws goes back on 'im, y'r honor, he can't help bein' an outlaw."

"Six months in the workhouse!" roared the police justice.

Absence of Mind.

Exhausted by the labor of carrying the furniture out of the building, the man whose dwelling was ablaze from cellar to garret mechanically rolled a cigar and turned to one of the firemen.

"Have you got a match?" he panted.

"A match?" growled the fireman. "If you want to light that thing go and touch it to your house!"

No Privileges.

The business agent stuck his head inside the shop door. A solitary man was at work.

"What are you doing here?" he demanded. "Don't you know this is a holiday?"

"Not for me," answered the solitary man, without looking up from his work. "I'm the boss."

A Delicate Task.

"The newspapers," said the orator solemnly, "do not tell the truth."

"Perhaps not," answered the editor regretfully. "We do our best; but, you know, there is nothing more difficult than to tell the truth in a way that won't put it up to some one to challenge your veracity."—Washington Star.

Naming the Tiger.

On the overthrow of the monarchy of Louis Philippe a Sunday crowd visited the Jardin des Plantes and was amazed to find the fine specimen of the Bengal tiger still bearing the label of "Le Tigre Royal." Nothing would serve the furious crowd but that at once on the spot the authorities should change the name to "Le Tigre National," and they did.—London Academy.

For the Children

To succeed these days you must have plenty of grit, courage, strength. How is it with the children? Are they thin, pale, delicate? Do not forget Ayer's Sarsaparilla. You know it makes the blood pure and rich, and builds up the general health in every way.

The children cannot possibly have good health unless the bowels are in proper condition. A sluggish liver gives a coated tongue, bad breath, constipated bowels. Correct all these by giving small laxative doses of Ayer's Pills. All vegetable, sugar coated.



SAVE THE CARTON TOPS

and Soap Wrappers from "20 Mule Team Borax"

Products and exchange them for VALUABLE PREMIUMS FREE

40 page illustrated catalogue of 1000 articles given away FREE. Address: PACIFIC COAST BORAX CO., Oakland, Cal.

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CLATSOP BEACH SEASIDE, OREGON

Directly on the beach overlooking the ocean. Hot salt baths and Cliff House surf bathing. Recreation pier for fishing. OF Sun parlors, Electric lights, Fire-places, and steam heat. "The Oregon" and drives. Sea foods a specialty. Rates, \$2.50 and \$3.00 per day. Special rates by the week. D. N. J. MOORE, Proprietor.

P. N. U. No. 15-08

When writing to advertisers please mention this paper.

S.S.S. CURES RHEUMATISM

Every case of Rheumatism has its origin and its development in the blood. It is not a disease which is contracted like a cold, but it is in the blood and system before a pain is felt, and the changes in the weather, or any physical irregularities, such as a spell of indigestion, bowel disturbance, etc., are merely the exciting causes producing the pains and aches, which are the natural symptoms of the disease. Rheumatism is caused by an excess of uric acid and other corrosive, irritating poisons in the blood, which are carried through the circulation to every part of the system. Every muscle, nerve, membrane, tissue and joint becomes saturated with these acid, irritating impurities, or coated with fine, insoluble caustic matter, and the sharp, piercing pains or the dull, constant aches are felt with every physical movement. When the blood is filled with uric acid poison, permanent relief cannot be expected from liniments, plasters, or other external Rheumatism. Such measures give temporary relief, but in order to conquer Rheumatism and bring about a complete cure, the uric acid and other inflammatory matter must be expelled, and this cannot be done with external treatment. S. S. S. cures Rheumatism because it is a perfect and entirely vegetable blood purifier. It goes down into the circulation, neutralizes the acids, dissolves the irritating deposits which are pressing on the sensitive nerves and tissues and producing pain, enriches the weak, sour blood, and removes every atom of impurity from the circulation. So steady of being a weak, sour team, distributing uric acid to the ferent parts of the system, the blood is strong and healthy and therefore able to supply every muscle, nerve, bone and tissue with nourishment and strength. Then the inflammation and swelling subside, the pains and aches cease, and not only is Rheumatism permanently cured, but under the fine tonic effects of S. S. S. the entire general health is benefited and built up. In all forms of Rheumatism, whether acute or chronic, S. S. S. will be found a safe and reliable treatment. Special book on Rheumatism and any medical advice you desire will be furnished free.

Sometimes ago, I had Rheumatism and had to quit work. The pain in my back and between my shoulders was so intense I could not rest or sleep. I tried everything, but nothing would any good till I heard of and took S. S. S. This medicine cured me sound and well. It purified my blood and made me feel like a new man.

CONRAD LANGE, 222 E. 12th St., St. Paul, Minn.

I was severely troubled with Rheumatism. I had it in my knees, legs and ankles, and any one who has ever had Rheumatism knows how excruciating the pain is and how it interferes with one at work. I was truly in bad shape—having been bothered with it for ten years, off and on. A local physician advised me to use S. S. S. I did so. After taking two bottles I noticed the soreness and pain were greatly reduced. I continued the medicine and was thoroughly cured! all pain, soreness and inflammation gone. I recommend S. S. S. to all Rheumatism sufferers.

J. L. AGNEW, Mt. Vernon, Ohio.

THE SWIFT SPECIFIC CO., ATLANTA, GA.

ST. JACOBS OIL CONQUERS PAIN

FOR STIFFNESS, SORENESS, SPRAIN OR BRUISE, NOTHING IS BETTER THAT YOU CAN USE! LUMBAGO'S PAIN, RHEUMATIC TWINGE, YOUR BACK FEELS LIKE A RUSTY HINGE! SCIATIC ACHES ALL PLEASURES SPoil, FOR HAPPINESS USE ST. JACOBS OIL

25c.—ALL DRUGGISTS—50c.

MADE FOR SERVICE IN THE ROUGHEST WEATHER AND GUARANTEED ABSOLUTELY WATERPROOF

POMME SLICKERS \$3.50

This trade mark and the word TOWER on the buttons distinguish this high grade slicker from the just as good brands

There is Only One "Bromo Quinine"

That is Laxative Bromo Quinine

USED THE WORLD OVER TO CURE A COLIC IN ONE DAY.

Always remember the full name. Look for this signature on every box. 25c. *E. W. Grover*

The General Demand

of the Well-Informed of the World has always been for a simple, pleasant and efficient liquid laxative remedy of known value; a laxative which physicians could sanction for family use because its component parts are known to them to be wholesome and truly beneficial in effect, acceptable to the system and gentle, yet prompt, in action.

In supplying that demand with its excellent combination of Syrup of Figs and Elixir of Senna, the California Fig Syrup Co. proceeds along ethical lines and relies on the merits of the laxative for its remarkable success.

That is one of many reasons why Syrup of Figs and Elixir of Senna is given the preference by the Well-Informed. To get its beneficial effects always buy the genuine—manufactured by the California Fig Syrup Co., only, and for sale by all leading druggists. Price fifty cents per bottle.

W. L. DOUGLAS SHOES

\$3.00 SHOES AT ALL PRICES FOR EVERY MEMBER OF THE FAMILY. MEN, BOYS, WOMEN, MISSES AND CHILDREN.

W. L. Douglas makes and sells more men's \$2.50, \$3.00 and \$3.50 shoes than any other manufacturer in the world, because they hold their shape, fit better, wear longer, and are of greater value than any other shoes in the world to-day.

W. L. Douglas \$4 and \$5 Gilt Edge Shoes Cannot Be Equalled At Any Price.

APPLY AT ONCE. W. L. Douglas name and price is stamped on bottom. Take No Substitute. Sold by the best shoe dealers everywhere. Shoes mailed from factory to any part of the world. Illustrated Catalogue free to any address.

W. L. DOUGLAS, Brockton, Mass.

20 YEARS IN PORTLAND DOING WORK FOR THE BEST PEOPLE

It is positive proof of the reliability and confidence our patients have in us. Specialists always in attendance, securing prompt and courteous attention. Lady attendants always present.

Reliable Painless Dentists.—Our reputation for reliability and thoroughness is well established. Cleanliness, Good Work and Quick Service.

"AND IT DIDN'T HURT A BIT"

Painless Extraction, 50 cents. Extraction Free when plates or bridges are ordered. Plates \$5 and up.

Best Plate Work.—Perhaps your teeth have become so loose that it is impossible to firmly set a bridge. Then the old stamps are removed without causing you the slightest pain, and a plate is fitted. If the plate fits perfectly it will look well and perform its work of maintaining your food satisfactorily. With my 20 years' experience in this work will guarantee satisfaction in every case.

Crown and Bridge Work.—It's a shame to spoil your personal appearance and ruin your digestion from the lack of teeth to properly masticate your food, when a bridge can be supplied that will cause no discomfort whatsoever.

W. A. WISE PAINLESS DENTIST

TAILOR BUILDING, THIRD AND WASHINGTON, PORTLAND, OREGON

PUTNAM FADELESS

Color more goods brighter and faster colors than any other dye. One 10c package colors silk, and is guaranteed to give perfect results. Ask dealer, or we will send post paid at 10c a package to dye, bleach and mix colors.

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