

## Years of Suffering

Catarh and Blood Disease - Doctors Failed to Cure.

Miss Mabel P. Dawkins, 1214 Lafayette St. Fort Wayne, Ind., writes: "For three years I was troubled with catarh and blood disease. I tried several doctors and a dozen different remedies, but none of them did me any good. A friend told me of Hood's Sarsaparilla. I took two bottles of this medicine and was as well and strong as ever. I feel like a different person and recommend Hood's to any one suffering from catarh."

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

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Chronic, Nervous and Female Diseases. Are cured without the knife. Thoroughly equipped sanitarium. Beautiful location. Rates the lowest. Write for literature. Meadow Glade Osteopathic Sanitarium. Dr. M. C. Cook, Physician. Battle Ground, Wash.

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## ALCOHOL CURE

PORTLAND, OREGON.

# FARM AND ORCHARD

Notes and Instructions from Agricultural Colleges and Experiment Stations of Oregon and Washington, Specially Suitable to Pacific Coast Conditions

## THE NEED OF NEW STANDARDS FOR HOP VALUATION.

By Professor H. V. Tartar, Oregon Agricultural College, Corvallis.

Hop growing is one of the important agricultural industries of this state, certain sections being devoted almost entirely to the production of this crop. The annual production of the Willamette valley approximates 90,000 bales. Considered nationally the hop crop, according to the latest figures the writer has available, ranks fourteenth in importance on the list of agricultural crops. In this country approximately 45,000,000 pounds of hops are consumed annually. These facts show that considerable attention should be given to improvement in the culture and quality of American hops.

In the improvement of hops one of the first requisites is the establishment of definite and scientific standards for accurately judging the quality of the hop. There must be some ideal to work to. The necessity for such standards has long been recognized, but certain practical considerations have thus far prevented their realization. There have been wide differences of opinion, and I might say, prejudices in some instances, as to the factors which actually constitute quality and also the amount of the various constituents in the strictly high grade hop.

Practically without exception the producer sells his hops on the basis of an empirical physical examination, while the consumer who purchases his supply from the broker or dealer may form his judgment upon a chemical as well as a physical examination. The points considered and the relative importance of each vary widely with different individuals, no two judging the same; hops which one judge will deem to be of good quality another will consider inferior. The most important of the points usually considered in physical examination are: Aroma, or smell, color, quantity of lupulin or "hop meal," "fatness," kind of drying, amount of leaves or stems, due to improper picking, freedom from mould, quantity of seeds, broken cones due to careless handling, ripeness, softness of texture, stickiness or gumminess, amount of sulfuring and "feel." In the use of chemical analysis, which has been much less employed, it is the common custom to determine only such constituents as are regarded as of greatest importance. Some hold the quantity of hard (tasteless) and soft (bitter) resins alone determine the quality; others attach weight to the tannin content; the amount of sulfur present due to "bleaching" is often given consideration; the proportion in which certain mineral constituents, such as potassium, lime and magnesium occur in the ash is regarded by some as a criterion for determining quality.

The most serious defect in the method of physical examination is that it cannot be accurately applied. The relative merits of the different points vary too widely with different individuals. Often the whims of certain consumers are allowed to accentuate minor factors. Again, with many too much importance is given to aroma, a factor concerning which no very accurate information can be given as to actual value. The geographical origin, not infrequently is a prominent subconscious factor in the determination of quality, notwithstanding the fact that hops from different parts of the same identical region often differ more widely than hops from regions widely separated. This factor also accounts for the fact that the quantity of hops sold on the market as coming from a certain locality often exceeds greatly the actual output of the region specified.

To overcome this difficulty certain legal restrictions have been made in some countries. In Germany and Austria regulations exist which require that the package of hops shall be sealed and accompanied by a certificate in order that their origin may be guaranteed in the interests of both grower and consumer. In England, also, hops must be branded with the name and address of the grower. These very legal requirements indicate a widespread inability on the part of the consumer to judge the quality of hops. Recently a local hop dealer told the author of an actual happening which aptly illustrates the point in question. Some Idaho hop growers were enthusiastic over the quality of their hops and placed large labels on the bales stating that they were Idaho hops. The dealer who purchased the lot made arrangements for the sale of the same consecutively to four different New York firms, the shipment being as many times rejected. The firms purchasing had not heard of 'Idaho hops' before. To overcome the difficulty the local dealer had the baling cloth removed and replaced it with cloth bearing labels which stated the contents to be "choice Oregon hops."

"I asked her to marry me, and she gave me a supreme answer." "What kind of an answer is that?" "She said she would give me six months to readjust myself so as to be acceptable."—Puck.

"How did Congressman Wombat acquit himself in the congressional ball match?" "He struck out twice and then got leave to print a base hit."—Louisville Courier Journal.

"The witness (proudly)—Your Honor! An 'me husband shippin' before th' mast these 15 years!"—Birmingham Post.

Judge—Do you know the meaning of the oath, madam? The Witness (proudly)—Your Honor! An 'me husband shippin' before th' mast these 15 years!"—Birmingham Post.

## THE ENTIRE SHIPMENT SOLD IMMEDIATELY AT THE HIGHEST MARKET PRICE.

Although a considerable amount of investigation of the chemical composition of the hop has been made, much still remains in doubt. The part played by the different constituents of the hop and their relative importance in industrial uses have never been demonstrated. Again the methods of analysis which have been worked out have been faulty. In a recent investigation made by the writer of the comparative value of different methods it has been found that only one method for the determination of total bitter resins is reliable. Much work remains to be done for securing accurate methods of analysis.

Viewed in the light of recent investigations, the real chemical composition of hops has not been fully worked out for any hop-growing section in the world. A careful and unbiased comparative study of the nature and quantitative relations of the constituents of American and European hops with the view of securing a definite basis for a standard of valuation is yet to be made. No extended investigations have been made to show the relationship of the different hop constituents to quality.

From what has been said it seems evident that no greater work can be done for the Oregon hop industry than that for the establishment of definite permanent standards based upon careful scientific investigations. At present the grower strives only to increase the yield. Quantity is the only criterion for improvement. Again in the hop market but little attention is evidently given to the actual intrinsic value of the hop. Pacific Coast hops have been shown to contain as high, if not higher, bitter resin content as that found in hops grown in any other part of the world, yet this fact is not considered in the price paid for them in the markets. The question of standards lies at the very beginning of progress in hop culture for both agriculturists and technologists. They must of necessity be the guide used to manipulate the culture of the hop in such a manner that the undesirable characteristics may be diminished and the desirable and useful ones augmented.

A movement has been set on foot recently in this country, having for its object the fixing of definite standards. It is to be carried out in connection with the annual International Barley and Hop Prize exhibit held at Chicago. A committee has been appointed to work out the details of the standards. Although the work of this committee will be greatly hampered because of the lack of available scientific data it is hoped that its work will accentuate the importance and lead to the undertaking of the necessary investigations. Every effort should be made by hop growers to bring about a thorough revision of the present methods of hop valuation and to secure the establishment of standards which shall be based on intrinsic value without reference to other factors.

"No," he answered; "just going."—Success.

"Where was he struck by the automobile?" asked the coroner. "At the juncture of the dorsal and cervical vertebrae," answered the surgeon. "Will you please point that out on the map?" asked the coroner, indicating one that hung on the wall.—Housekeeper.

## FASHION HINTS



The apron-like idea of this gown is graceful and new. A soft silk is the material used, combined with a novelty trimming. Chiffon cloth is brought in effectively on the waist.

"Backward, turn backward, O Time, in your flight!" wrote the poet. "Still," he reflected, gressomely, "some slant-eyed politician or wild-eyed reformer will get the credit of having originated the recall!"—Chicago Tribune.

"If I buy you a seat in the stock exchange will you agree to go to work?" "I ain't crazy for work, dad. Make it a seat in the senate."—Louisville Courier Journal.

Pa Munn—I want Helen to marry a business man. She's going to get all my money. Algy—That's grand! What business would you like to set me up in?—Philadelphia Bulletin.

Judge—Do you know the meaning of the oath, madam? The Witness (proudly)—Your Honor! An 'me husband shippin' before th' mast these 15 years!"—Birmingham Post.

## Wild Oats.

Arthur Lefevre, the well-known Texas author, said in Victoria, according to the Kansas City Star, apropos of the Texas prohibition campaign:

"That reminds me of a happening at the University of Virginia during my student days in '84.

"There was a Baltimore freshman at the varsity whose father got several letters about his boy's wild ways—about his fondness for peach-and-honey and such like heavy drinks. These letters grieved the old man to the heart. He wrote to the freshman and in reply got a general denial of all the charges.

"Evidence, however, continued to pour in, and finally the father decided on a secret journey to Charlottesville. He timed himself to arrive late at night. It was, in fact, 2 o'clock in the morning when he rang the bell of his son's boarding-house.

"In response to his ring a woman in a yellow bath robe appeared, lamp in hand.

"'Madame,' said the amateur detective, 'is this the residence of—?'" And he mentioned his son's name.

"The woman's grim look relaxed, and she answered indifferently: "'Yes, he lives here. You can carry him right in.'"

Household troubles; Headache, Toothache, Earache, Stomach ache. Hamlin's Wizard Oil cures these aches and pains so why don't you keep a bottle in the house.

## Ties That Bind.

A Philadelphia clubman, engaged in buying a necktie for himself, turned the pile over and over and at last put aside two as not worthy of further consideration. The salesman placed the rejected ties in a separate box. The clubman asked whether they had been placed by mistake with those he had been examining.

"Oh, no," was the response; "but we have orders when five or six men turn down a tie to take it out and put it aside."

"What becomes of them?" "We sell them to women who come in to buy ties for men."—Harper's Monthly.

Constipation causes and aggravates many serious diseases. It is thoroughly cured by Dr. Pierce's Pleasant Pellets. The favorite family laxative.

## En Route.

A Louisville barrister escorted his wife and daughter to a lecture, and then, to his wife's annoyance, disappeared. He was on hand, however, when the meeting was over.

"Hello, there, Theodore," said a friend, meeting the barrister and his family in the streetcar. "Been to the lecture?"

The lawyer stole a look at his wife's face.

"No," he answered; "just going."—Success.

## It Cures While You Walk.

Allen's Foot-Ease is a certain cure for hot, swollen, callus, and swollen, aching feet. Sold by all Druggists. Price 25c. Don't accept any substitute. Trial package FREE. Address Allen S. Olmsted, Le Roy, N. Y.

"You're rather a young man to be left in charge of a drug shop," said the fussy old gentleman. "Have you any diploma?"

"Why—er—no, sir," replied the shopman; "but we have a preparation of our own that's just as good."—Sketch.

"Are you interested in orthology, Mrs. Wuffer?"

"Not at all now, although I once did a pipe rack for my husband."—Birmingham Age-Herald.

Suburb—I tell you there is nothing like a trip to the country!

Avenue—Yes; it certainly makes one appreciate the city better. —Judge's Library.

Suburb—I tell you there is nothing like a trip to the country!

## Mexican Mustang Liniment

FOR RHEUMATISM.

Mrs. Olive Huntington, Norton, Ore., says: "I consider my Mexican Mustang Liniment the best of liniments. I have used it for different ailments and it always gave satisfactory results. It is especially good in cases of Inflammatory Rheumatism and all forms of lameness." 25c, 50c, \$1 a bottle at Drug & Gen'l Stores.



## 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 DRUG COMPANY, Quincy, Illinois.

## A Poor Weak Woman

As she is termed, will endure bravely and patiently agonies which a strong man would give way under. The fact is women are more patient than they ought to be under such troubles.

Every woman ought to know that she may obtain the most experienced medical advice free of charge and in absolute confidence and privacy by writing to the World's Dispensary Medical Association, R. V. Pierce, M. D., President, Buffalo, N. Y. Dr. Pierce has been chief consulting physician of the Invalids' Hotel and Surgical Institute, of Buffalo, N. Y., for many years and has had a wider practical experience in the treatment of women's diseases than any other physician in this country. His medicines are world-famous for their astonishing efficacy.

The most perfect remedy ever devised for weak and delicate women is Dr. Pierce's Favorite Prescription.

IT MAKES WEAK WOMEN STRONG, SICK WOMEN WELL.

The many and varied symptoms of woman's peculiar ailments are fully set forth in Plain English in the People's Medical Adviser (1005 pages), a newly revised and up-to-date Edition of which, cloth-bound, will be mailed free on receipt of 31 one-cent stamps to pay cost of mailing only. Address as above.



## Be Cured In Your Own Home

Rheumatism, Stomach and Lung Troubles, Skin Diseases Cured permanently in short time and at small cost by use of a concentrated mineral water. No Fake. Send for testimonials and literature. \$1.00 trial package 25 cents. Address LANG'S ROCKY MOUNTAIN MINERAL WONDER COMPANY 231 Main Street, PORTLAND, OREGON.

## Laugh Was on Father.

Young Richeigh's father allowed him to take a trip to Europe this summer, says the San Francisco Argonaut. Before starting the youth made up a cable code of his own for possible use while abroad, and handed a copy to his father, who locked it up in his desk without looking at it. A month later the elder Richeigh received a cable consisting of one word, "Laugh." He laughed. It seemed to be something quite pleasant. His code was at the house. He went up there in the best of humor. He got out the code and read: "Laugh—Send me \$500."

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

## Near-Sighted.

"Good morning, Mrs. Simpkins!" said a suburban lady who is very short sighted. "Your husband must be very fond of gardening. I see him the first thing every morning down at the bottom of the garden. And how well he looks, to be sure!"

Mrs. Simpkins slammed the door in her neighbor's face. The latter went to tell her daughter.

"And you said, mother, that the thing in the onion bed was her husband."

"I did." "Ah, well, that explains the matter! What you took for Mr. Simpkins is a scarecrow."

## Free to Our Readers

Write Murine Eye Remedy Co., Chicago, for 4-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, Does Not Smart, Soothes Eye Pain, and sells for 50c. Try It in Your Eyes and in Baby's Eyes for Weary Eyelids and Granulation.

"A penny stamp, please—and, by the way, haven't I seen you before?" "Yes, madam, I had the good fortune to save your life last week."

"To be sure—to be sure—two penny stamps, please."—Punch.

Sillicus—How do you account for his extreme popularity?

Cynicus—He never tells the truth about anything unless it is absolutely necessary.—Philadelphia Record.

## HOLMES BUSINESS COLLEGE

SEND FOR FREE FIRST LESSONS. POSITION SECURED FOR STUDENTS WHO COMPLETE.

## COLT DISTEMPER

Can be handled very easily. The sick are cured, and all others in same stable, no matter how "sprayed," kept from having the disease, by using COLT'S LIQUID DISTEMPER. Give on the tongue or in feed. Acts in the blood and cures some of all forms of distemper. Best remedy ever known for more in fact. One bottle guaranteed to cure one case. Six and fifteen bottles, \$2 and \$10 dozen, of druggists and horse dealers, or sent express paid to manufacturer. Get extra how to handle. Local agents wanted. Largest selling house ready in existence—twelve years.

SPohn MEDICAL CO., Chemists and Bacteriologists, GOSHEN, IND., U. S. A.

## W. L. DOUGLAS

\$2.50, \$3.00, \$3.50 & \$4.00 SHOES

Men and Women wear W.L. Douglas shoes because they are the best shoes produced in this country for the price. Insist upon having them. Take no other make.

THE STANDARD OF QUALITY FOR OVER 30 YEARS

The assurance that goes with an established reputation is your assurance in buying W. L. Douglas shoes.

If I could take you into my large factories at Brockton, Mass., and show you how carefully W.L. Douglas shoes are made, you would then understand why they are warranted to hold their shape, fit better and wear longer than any other make for the price.

CAUTION The genuine have W. L. Douglas name and price stamped on bottom of shoe. If you cannot obtain W. L. Douglas shoes in your town, write for catalog. Shoes sent direct from factory to wearer, all charges prepaid. W. L. DOUGLAS, 145 Spark St., Brockton, Mass.



ONE PAIR of my BOYS' \$3, \$3.50 or \$4.00 SHOES will positively outwear TWO PAIRS of ordinary boys' shoes