

## BENEFIT DERIVED FROM SPRAYING FRUIT TREES

Under Average Conditions Fair Estimate Is About One-Fourth of Total Fruit Is Saved—Some Statistics.

The orchard owner is chiefly interested in the effect of spraying on the amount of picked fruit free from worms. In most cases the value of spraying was due to reducing the amount of wormy windfalls, or, in other words, preventing worminess so that the fruit remained on the tree. On the unsprayed trees an average of 26 per cent. of the total fruit dropped as wormy, and 15.7 per cent. was wormy when picked.

In the four orchards in 1908, about 28 per cent. of the total fruit was wormy drops on the unsprayed trees and five per cent. on the sprayed trees.

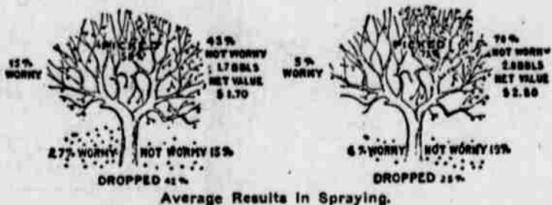
An average of all the sprayed plots shows that of the total crop of fruit on any tree, 4.7 per cent. drops as wormy and 4.1 per cent. is wormy picked.

Subtracting the percentage which drops plus the percentage which is wormy when picked from 100, gives the percentage of the total crop which is picked free from worms, which is the essential matter for the fruit grower, says a bulletin of the New Hampshire experiment station. On

of that shown above, but only by taking the dropped fruit into account can a correct estimate of the value of the spraying be made. When there is an unusual amount of worminess and the best spraying, the benefit due to spraying will often amount to half of the total fruit borne by the tree, as was shown by some of our plots, which in the case of a tree with the same amount of fruit as cited above, would amount to two barrels instead of one out of three picked being saved by spraying. But under average conditions, it seems a fair estimate that about one-fourth of the total fruit, or one-third of the fruit actually picked is saved as perfect fruit by spraying. This is shown graphically in the accompanying illustration. Such a statement of the benefit derived from spraying is not as striking as to say that but one apple in one hundred of those picked as wormy, but the former statement merely clearly states the facts and only one in a hundred of the picked apples may be wormy, and yet the real benefit from spraying may not be as great as on other trees, where a larger proportion of the

NOT SPRAYED

SPRAYED



the unsprayed plots the picked fruit free from worms is found to average only 43 per cent. of the total crop, while on all sprayed plots it averages 70 per cent., a difference of 27 per cent. of the total crop. Thus a gain of about one-fourth of the crop seems to be a fair average of the actual benefit to be derived from spraying, if we base our estimates upon the total fruit borne by the tree. This would mean that on a sprayed tree which picked three barrels of fruit, one barrel of perfect fruit, worth \$1 to \$1.25 net, had been gained by the spraying.

If the difference in amount of perfect picked fruit was based on the yield of consideration, the benefit would appear to be only about three-fourths

picked fruit was wormy, but on which the spraying had prevented a large drop and thus secured a much larger crop to pick. The old saying that "noting will like statistics," is well exemplified in considering the benefits of spraying as often recorded and compared.

**Milk Needs Water.**  
Milk is mostly water—all milk, not just the kind the milkman leaves at the door. Cows cannot make milk without plenty of water, and they like good water, too.

At the old home farm the cows used to wade right through the creek to come to the well to drink. The old man educated those cows to an appreciation of a good drink.

## FAULTS IN CHICKENS' COMBS



In the single-comb breeds, side sprigs, as seen in illustration No. 1, are objectionable; No. 2 shows a comb too coarse to be typical; whilst No. 3 possesses too many serrations; No. 4 is a weak comb. The rose or double comb, as seen in a typical fowl, such as the Wyandotte, is an object for admiration, but it must be firmly set on the head, the entire surface being covered with small cor-

rugations. Illustration No. 5 shows a big, coarse comb.

**Dry Bran for Feed.**  
It is a good plan to keep dry bran before the fowls at all times. They won't eat too much of it, and it is a very good food and acts as a laxative. After chicks are a month old bran can be placed before them to eat at their pleasure.

## WEEPING WILLOW'S STRANGE STORY

**Peculiar Drooping Tree Has Interesting History Regarding Its Introduction Into Europe and America.**

This peculiar drooping tree has a strangely interesting history regarding its introduction into Europe and America. This was after Alexander Pope had builded a home on the Thames river in England. At that time he received from a friend in Smyrna a drum of figs, and with it there happened to be a small twig that greatly excited the poet's curiosity—so much so that he stuck it into the ground by the river's bank.

The little tree rooted and soon grew,

to the delight of Pope. It was the ancestor of all those that have since lived both in Europe and America.

In 1775 a young British officer going to Boston, Mass., took along with him, very carefully wrapped in oil silk, a twig from the genuine "Pope willow" and gave the precious twig to Mr. Curtis, stepson of General Washington. Mr. Curtis planted it near his home in Virginia. There the twig took kindly to the soil, growing vigorously. It was a child of "Pope's willow," the first one to strike root in America. Later, in 1790, General Gates also put out a twig on his farm on Manhattan Island, New York, which grew, and was known as "Gate's weeping willow tree."

Horses very often lose their eye-sight through dust and hayseed falling into their eyes from the loft above

## WELCOME FOR PRODIGAL

Cowboy Would Have Reversed Proceedings as Recorded in the Scriptures.

Judge Ben B. Lindsey of the famous Denver juvenile court said in the course of a recent address in charity:

"Too many of us are inclined to think that, one misstep made, the boy is gone for good. Too many of us are like the cowboy.

"An itinerant preacher preached to a cowboy audience on the 'Prodigal Son.' He described the foolish prodigal's extravagance and dissipation; he described his penury and his husk-eating with the swine in the sty; he described his return, his father's loving welcome, the rejoicing, and the preparation of the fatted calf.

"The preacher in his discourse noticed a cowboy staring at him very hard. He thought he had made a convert, and addressing the cowboy personally, he said from the pulpit:

"My dear friend, what would you have done if you had had a prodigal son returning home like that?"

"Me!" said the cowboy, promptly and fiercely, "I'd have shot the boy and raised the calf!"—Detroit Free Press.

### Try This, This Summer.

The very next time you're hot, tired or thirsty, step up to a soda fountain and get a glass of Coca-Cola. It will cool you off, relieve your bodily and mental fatigue and quench your thirst delightfully. At soda fountains or carbonated in bottles—5c everywhere. Delicious, refreshing and wholesome. Send to the Coca-Cola Co., Atlanta, Ga., for their free booklet "The Truth About Coca-Cola." Tells what Coca-Cola is and why it is so delicious, refreshing and thirst-quenching. And send 2c stamp for the Coca-Cola Baseball Record Book for 1910—contains the famous poem "Casey At The Bat," records, schedules for both leagues and other valuable baseball information compiled by authorities.

### Immense Saving Possible.

In a preliminary bulletin on the cost of maintaining a tuberculosis sanatorium, the National Association for the Study and Prevention of Tuberculosis announces that the average cost per patient per day in thirty semi-charitable sanatoria scattered in all parts of the United States is \$1.659. These institutions represent an annual expenditure of over \$1,300,000 and over \$15,000 days of treatment given each year. The bulletin, which is part of an extensive study of the National Association is making for its bureau of information, points out that the country could save annually at least \$150,000,000 if the indigent consumptives were properly segregated.

### An Easy Fit.

A number of years ago there lived in northern New Hampshire a notorious woman-hater. It was before the day of ready-made clothing, and wanting a new suit, he was obliged to take the material to the village tailor. She took his measurements, and when she cut the coat, made a liberal allowance on each seam.

The man's dislike of women in general prevented his having a fitting. He took the finished garment without trying it on. It was much too large, and his disgust was apparent in the answer he made to the friendly loafer on his first visit to the post office, when he wore the despoiled article.

"Got a new coat, Obed?" said the loafer.

"No, I ain't!" said Obed. "I've got seven yards of cloth wrapped round me."—Youth's Companion.

### 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 *Wm. A. Stearns*  
In Use For Over 30 Years.  
The Kind You Have Always Bought.

### She's a Free Lance.

"Would you have a pickpocket arrested if you detected one in the act of going through your pockets?"

"With one exception."

"What's that?"

"Not if it was my wife."

### If You Are a Trifle Sensitive

About the size of your shoes, many people wear smaller shoes by using Allen's Foot-Ease, the Antiseptic Powder to shake into the shoes. It cures Tired, Swollen, Aching Feet and gives rest and comfort. Just the thing for breaking in new shoes. Sold everywhere. 5c. Sample sent FREE. Address, Allen S. Olmsted, Le Roy, N. Y.

### Enough Provocation.

Patience—Does she know any songs without words?

Patrice—No, whenever she sings it's certain to bring on words.

**Red, Weak, Weary, Watery Eyes.** Relieved by Murine Eye Remedy. Try Murine For Your Eye Troubles. You Will Like Murine. It Soothes. See at Your Druggists. Write For Eye Books. Free. Murine Eye Remedy Co., Chicago.

A crazy person thinks every one else is insane, and love is blind because it imagines everybody else is.

**Mrs. Winslow's Soothing Syrup.** For children teething, softens the gums, reduces inflammation, allays pain, cures wind colic, loosens bowels.

If there is plenty of room at the top, why do people who get there continue to fall off?

Silenced the Critics.  
Charles Sumner, when in London, gave a ready reply. At a dinner given in his honor, he spoke of "the ashes" of some dead hero. "Ashes! What American English!" rudely broke in an Englishman; "dust you mean, Mr. Sumner. We don't burn our dead in this country." "Yet," instantly replied Mr. Sumner, with a courteous smile, "your poet Gray tells us that 'Even in our ashes live their wonted fires.'" The American was not criticised again that evening.

Caught in the Rush.  
"My poor man," said the sympathetic woman, "and how came you to be crippled for life?"  
"I'll tell you, madam," replied the beggar. "Once I spent my vacation at a summer hotel and I was trampled down trying to get into the dining room after the first bell.

## Double the Wheat Yield of Your Land

Crop rotation and good tillage will not do it all. You need fertilizer—need Armour's. In order to secure a proper return on the investment in your land you MUST increase the yield per acre.

## Armour's Fertilizers

for wheat have a record of always producing the heaviest yield. Use them this Fall—Grow more wheat—Make more money. Ask your dealer.

Armour Fertilizer Works, Chicago

# \$2000.00

## In Gold Given Away in Prizes

### To Ladies Who Use Defiance Laundry Starch

Five hundred and seventy-two cash prizes divided as follows, to the man, woman or child who sends to us before November 15, 1910, the largest number of trade marks, "THE GLADIATOR," cut from our 16 ounce package, (or two from our 8 ounce package—to be counted as one), we will give TWO HUNDRED DOLLARS IN CASH. To the one sending the next largest number ONE HUNDRED DOLLARS IN CASH, and to the next twenty, TWENTY-FIVE DOLLARS each. To the next fifty, TEN DOLLARS each. The next two hundred, TWO DOLLARS each. The next three hundred, ONE DOLLAR each; in all, 572 prizes distributed as follows:

1 Grand Cash Prize,	\$200.00	.....	\$ 200.00
1 Grand Cash Prize,	100.00	.....	100.00
20	Cash Prizes,	25.00 each	... 500.00
50	Cash Prizes,	10.00 each	... 500.00
200	Cash Prizes,	2.00 each	... 400.00
300	Cash Prizes,	1.00 each	... 300.00
572 Prizes, in all, amounting to			..... \$2000.00

The question may arise in your mind, "How can we afford to do this?" The answer is: we found by experience that instead of using \$5,000 for advertising to cover a certain field, by giving \$2,000 of this amount to the ladies in cash premiums and using the other \$3,000 for advertising, we obtain much better results.

### Reasons Why You Should Use Defiance Starch

- It is the very best cold water starch on the market
- It can also be used as boiled starch
- It never sticks to the iron
- It contains 16 ounces to the package, as against other brands' only 12 ounces
- One-third more starch—lasts one-third longer
- Ironing can be done one-third quicker and twice as easy where the starch never sticks

In addition to these reasons, some one must secure one of the grand cash prizes. Think of capturing the grand cash prize of either \$200.00 or \$100.00 to be received just before Christmas. All prizes will be distributed not later than Dec. 10, 1910.

### Start the Ball Rolling

Begin at once to arrange for your children to solicit your neighbors who will give you the "trade marks." Even those who do not wish to compete for any of the prizes will get one-third more starch by using "Defiance." This is sufficient inducement for giving it a trial. Ladies can arrange clubs of a dozen or more and the trade marks be sent in under one name and divide the prize among themselves, if they wish.

**BEWARE** of a dealer who would rather sell a 12 ounce package than a 16 ounce package, because customers buy oftener. We say to you, if you have a dealer in town who keeps DEFIANCE STARCH, 16 ounce packages, that is the place to buy ALL of your goods in his line, because it is evident he has some interest in his customers' welfare. Some dealer in your town will be sure to keep on hand this starch.

Save all trade marks until November 10th, or 12th, of this year, and then send them to THE DEFIANCE STARCH COMPANY, OMAHA, NEBRASKA, by mail either by letter or parcel post. In doing so, be sure and give your name and correct address. In case of a tie in the two grand cash prizes, the prize will have to be divided. We have deposited \$2,000 with the Merchants National Bank of Omaha, Nebraska, payable to the order of A. M. Pinto, who is the treasurer of a large corporation having offices in 24 cities in the United States. Mr. Pinto will superintend the distribution of the prizes.

Remember, there are 572 prizes, besides the two grand prizes. That all the trade marks must be received by us by November 15th. Give plainly your correct name and address.

### A Word to the Retail Dealer

We say to the retail dealer who is not handling DEFIANCE STARCH now, if he will buy from his jobber one-half a case (24 16-ounce packages) or one full case (48 16-ounce packages) he may return to us any unsold portion of such half or full case as he may have on hand November 15th, and we will send him a draft for the same, at his cost price. By this method no dealer need feel that he is taking any risk in buying a half or full case of this starch at once.

**Defiance Starch Co.**  
Omaha, Nebraska

### Real Novelty.

Knocker—Say, here's an original baseball story.  
Second Senior—How's that?  
Knocker—Here wins game in eighth inning instead of ninth.—Yale Record.

Dr. Pierce's Pleasant Pellets regulate and invigorate stomach, liver and bowels. Sugar-coated, tiny, granules, easy to take. Do not grip.

A friend's worth is at its best when an enemy tests the strength.—Royston.

The satisfying quality in Lewis' Single Binders found in no other 5c cigar.

A thick head is apt to generate a multitude of thin ideas.

### KNOWN SINCE 1836 AS RELIABLE

**PLANTEN'S C & C OR BLACK CAPSULES**  
SUPERIOR REMEDY FOR MEN ETC ETC  
AT DRUGGISTS. TRIAL BOX BY MAIL 50c  
PLANTEN, 93 HENRY ST. BROOKLYN, N.Y.

Your Here is an exceptional opportunity for you to earn a liberal weekly income. Furthermore, you can establish a permanent, profitable business, of a well-paying "side-line" by working for our organization. Our work is simple and remunerative, and requires no capital or previous experience. Remember, your salary is guaranteed—and is entirely apart from the liberal cash commissions and other bonuses. Some of our representatives have incomes ranging from \$1,000.00 to \$10,000.00 yearly. We need a representative in your town at once. Then insure yourself the big returns you can secure from this great opportunity by making this ad—NOW—your business card.

## Busted

Many a man goes broke—in Health—then wealth. Blames his mind—says it don't work right; but all the time it's his bowels. They don't work—liver dead and the whole system gets clogged with poison. Nothing kills good, clean-cut brain action like constipation. CASCARETS will relieve and cure. Try it now.

CASCARETS 1/2 a box for a week's treatment. All druggists. Biggest seller in the world. Million boxes a month.

W. N. U., ST. LOUIS, MO. 31-1910.

# You Look Prematurely Old

Because of those ugly, grizzly, gray hairs. Use "LA OREOLE" HAIR RESTORER. PRICE, \$1.00, retail.