

# Dr. Frank Crane Says

CITIES NEED PURE WATER

"I cannot play upon any stringed instrument but I can tell you how of a little village to make a great and glorious city," said the old Greek Themistocles.

One of the most important elements in making a small town a great and glorious city is the assuring of an ample supply of pure water.

As cities have grown larger the problem has become more difficult.

The extent to which municipal governments have gone to insure sufficient uncontaminated water for their citizens is shown in the case of Los Angeles, California, a few facts about whose water system should be of value to all interested in city planning.

The Municipal Water Bureau, with its supply and distribution system, represents an investment of more than \$75,000,000.

The main source of supply is a giant aqueduct nearly 250 miles in length. It is known as the Owens River Aqueduct and is laid across the Mojave Desert and up the east side of the Sierras to tap the melting snows near their summits.

It took five years to complete and is capable of meeting the water needs of two million people. This aqueduct is said to be the largest in the world bringing water to a city.

Fifteen reservoirs are used for the storage of the water. They have a

total capacity of 120,000 acre feet or about 39,000,000,000 gallons. This is enough to meet the city's domestic water requirements for an entire year without being refilled.

The network of water mains carrying the water to consumers totals almost the number of miles across the continent.

Surveying and other preliminary work has been done for a second aqueduct about 250 miles long which will be built in the future. It will increase the capacity until seven million inhabitants can be taken care of.

The water brought from the melting snow is pure at the source and comes through the aqueduct uncontaminated. The problem of keeping it pure in the reservoir is met by an elaborate system of tests and sterilizations.

Instead of the old method of throwing in powder, chlorine gas is mixed with water in a way similar to the charging of carbonated water, and this is run into the tanks.

It is a significant fact that the health department reports that since 1902 not a single case of water-borne disease has been reported in the city.

This one example of the extent to which enterprising cities will go in their struggle to insure pure water is indicative of its importance in urban life.

## Challenges Flying Amongst Channel Swimmers

Mrs. Corson (Gade) Ernest Vierkotter "Trudy" Ederle



A great long distance swim for a purse somewhere between \$25,000 and \$150,000 may be featured on one of the United States seaboard as the result of the three English channel crossings this summer. "Trudy" Ederle, 14 hrs., 31 m.; Ernest Vierkotter, 12 hrs., 43 m.; and Mrs. Corson (Gade) 15 hrs., 28 m., each have announced a willingness to compete in such an event and it is possible a 25 mile splash will develop.

smooth-headed variety, are rust resistant according to Mr. Garren's tests on the Mountain and Piedmont station farms.

The third rule is to plant an early variety if it is impossible to get the rust resistant varieties. Purple Stray and Alabama Blue Stem are the two earliest varieties grown on the experiment station plots.

Following these suggestions, says Mr. Garren, will help to control rust even if there is a warm, moist May next year and will thus help to produce better yields per acre.

## Difficult Operation

Possibly no man south of the Mason and Dixon line ever performed such a difficult operation with more ease and speed than did Dr. John B. Wright last Sunday night at Lux Hospital when he removed a watermelon seed from the lung of Dr. Chas. B. Wilkerson's, County Physician, baby boy, Louis Reams Wilkerson, aged seventeen months. Louis while playing on August 10th be-

came strangled and suffered very much until Sunday night, when it was decided best to operate, although repeated X rays did not show anything. Dr. Wilkerson, the father of

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a. m. p. m.  
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10:07 6:20 Lv. Roxboro ar. 11:47 7:14  
10:34 6:50 Lv. Danenton ar. 11:18 6:45  
10:55 7:13 Lv. S. Boston ar. 10:55 6:55  
11:07 7:27 Lv. Halifax ar. 10:44 6:12  
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## Peach Tree Borers Controlled by Chemical

Raleigh, N. C., Sept. 6.—Paradichlorobenzene is something more than a hard name to pronounce. It's a chemical that is very valuable in controlling borers in peach trees and may be used effectively and efficiently at little cost.

"Thousands of pounds of this chemical are being used each year to control peach tree borers," says C. H. Brannon, extension entomologist at State College. "If the material is applied according to directions governing its use, it will give from 50 to 100 per cent control. It must be applied each year regularly and for North Carolina conditions the date for using it is between September 25 and October 10. This time of application must be closely followed if best results are to be obtained.

Paradichlorobenzene can be used on trees four years of age and older with safety, states Mr. Brannon. However, if the trees two and three years of age are badly infested, one-half an ounce can be used with slight injury to the tree. For trees four and five years of age, Mr. Brannon recommends three-fourths of an ounce to each tree and for trees six years of age, a full ounce of the chemical should be applied. For very old trees with large trunks, one ounce and a fourth should be applied.

Break the crust around the tree and smooth off the soil with a hoe. Get the dirt on a level above the trunk hole made by a borer because Paradichlorobenzene is heavier than air and will not penetrate borers holes above the point of application. Mr. Brannon states also that it is necessary to scrape away the gum from the trunk and then apply the chemical in a continuous ring about an inch wide and about an inch from the tree and none should touch the trunk. Several shovels of dirt should then be placed over the crystals and packed in a mound with the back of the shovel. Tear down the mound in about six weeks after application of the chemical.

Farmers conducting white lead demonstrations in Chowan County recently sold 266 hogs for a little over \$6,000. All the hogs killed here and these men will not worry about the price of cotton this fall.

## DR. S. RAPPORT

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My next visit will be Wednesday October 6th.

## Three Good Rules For Wheat Planters

Raleigh, N. C., Sept. 6.—A cool, dry May generally means no rust and a good wheat crop. A warm, moist May means lots of rust and a poor wheat crop. Rust of wheat, therefore, appears to be the limiting factor in large wheat yields in North Carolina.

"We had the largest wheat crop this year that we have harvested in a number of years," says G. M. Garren, chief agronomist at State College. "The acreage to wheat was comparatively small and will be considerably increased this fall. Our farmers may comply with all conditions for growing a bumper crop but if weather conditions in May favor the development of rust, the crop will be poor. Preventatives do not always prevent. It is best to plant with the idea of getting ahead of the rust."

Mr. Garren gives three rules that will help. First, plant the seed only on well-drained, compact upland soil because poorly drained soil favors the development of rust. One variety of wheat, the Fulcaster, made 24.2 bushels per acre on upland soil at the Mountain Branch Station and only 22.1 bushels on bottom land at the same station. The difference was due mainly to rust infection.

The second rule is to plant a rust-resistant variety. The Fulcaster, a bearded variety, and the Gleason, a

## Pains disappeared

"SEVERAL years ago I was badly run-down," says Mrs. John Bunch, R. F. D. 3, Columbia, S. C. "I could not do any of my work. I was so weak I could not wash a dish. My back and sides hurt me at times dreadfully. I dragged around until I finally got down in bed."

Then, explains Mrs. Bunch, she happened to read about Cardui, the woman's tonic, and decided to give it a thorough trial, the results of which she describes below:

"It seemed to reach the cause of my trouble at once. I did not take it long before my appetite began to improve. I gained in weight from 114 pounds until now I weigh 125 pounds. I soon was able to be up around the house. I took up my household duties and was delighted with my returning strength."

"I now do all my own work. The pains in my sides and back have disappeared and I feel like a different person."

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the child, never doubted his first diagnosis that the child had a foreign body in its lung, and the removal of the big fat seed proved his diagnosis correct. Louis was taken home Monday and persisted in getting out on the grass and playing with his little playmates once again, after a lapse of 12 days, when it was often thought he would play no more.—W.

## Children Cry for

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