#### **HOW BEST SPRAYING OUTFIT IN U.S. IS USED**

was red to the depth of one-third of held in the orchard of Dr. J. F. Funk, Boyertown, Pa. Dr. Funk is state pomologist of Pennsylvania, and is a unsalable, he had the satisfaction as

pomologist of Pennsylvania, and is a graduate physician, but now makes a psecialty of growing fine fruit.

The meeting was held for the purpose of showing the visitors how to make and apply the lime-salt-sulpbur mixture for San Jose scale. This pest is very prevalent in parts of the Keystone state, and notwithstanding much has been published on the subject, it was thought best to hold this field meeting and have an actual demonstration of how the mixture should

at a very early age, with an annual increase in quantity, and of highest quality. The trees are unusually healthy, one peach orchard planted in the spring of 1982 is a model of beauty, the trees having an average top diameter of fifteen feet, and have produced at three and a half years

In these orchards spraying is done three and sometimes four times per year, the first being with lime, sul-phur and salt while trees are dor-mant; the later sprays are Bordeaux

The Mixing Plant.

The spray plant consists of a commodious building put up for the purpose on a side hill, with a driveway at lower side, where a wagon with spraying tank is filled. Over this driveway is a large platform 8 by 20 feet, where materials are kept and scales for weighing. Next to the driveway is a large platform 7 feet high and 6 feet wide, on which are two large mixing tanks; back of this is another elevated platform 3½ feet high by 5½ feet wide, on which are four cooking tanks, where all the materials are cooked by steam furnished by a 15 h. p. boiler, which is situated in the rear of the last platform. From this boiler a one lach pipe is carried along the root over the tanks, and at extension has a T and two five incaptuated to the preforated uipples for distribution of steam and at the same time agitates the mixture and saves stirring. It is state to materials are compared to make a half inch pipe extends out and down into the tank. This extension has a T and two five inch perforated uipples for distribution of steam and at the same time agitates the mixture and saves stirring. It is state to more form the mixture and saves stirring. It is state to more form and intelligent to the mixture and saves stirring. It is state to more form the north save and the paralyzed with state to make the mixture and saves stirring. It is state to more comment regulation or rates, but the record of the last eightness on the north bank road who had had his legs broken by a blast. The unfortunstendation of steam and at the same time agitates is the Commerce Commission, or any the provided with skin trouble. She writes the mixture and saves stirring. It is state Commerce Commission, or any the provided with skin trouble. She writes the mixture and saves stirring. It is state Commerce Commission, or any the provided with skin trouble. She writes the mixture and saves stirring. It is state Commerce Commission, or any the provided with skin trouble. She writes the mixture and saves stirring. It is state Commerce Commi steam and at the same time agitates lodging this vast power in the Interthe mixture and saves stirring. It is further supplied with two swinging joints. This permits the folding up of pipe and holding it out of the way when not in use. There is also a track above and in front of cooking tanks on which a clutch pulley which tanks on which a clutch is attached to the barrel in which the sulphur is made to a paste is carried forward to any one of the tanks and gravity from the time the water leaves the well until it goes as a spray on the trees, and nover touches a bucket, therefore doing away with all slop.

Promptly at 10 o'clock the decor commenced the demonstration, weigh-

ing out 44 pounds of good fresh stone lime, 34 pounds of flowers of sulphur (not flour of sulphur). This is rubbed through a sieve made of wire cloth to break up the lumps. Then he weigh-ed 15 pounds of salt.

The water being boiling, the sul-phur was put into a barrel connected with the clutch pulley, and boiling water being added while being mixed to first a smooth paste, then to a thin slop. The lime was now dropped into one of the mixing tanks containinto one of the mixing tanks containing about 13 gallons of boiling water. This immediately commenced slaking with great noise and intense heat. The sulphur was now run forward and dumped into the seething mass, and sitxy pounds pressure of steam turned on. As this was cooking the doctor gave explanation, every few minutes showing the changes of color and explaining the changes of color and explaining the chemical action taking place, urging the importance of having the proper combination, the failing the proper combination, the fail-ure of which is the cause of such unsatisfactory results. After a continuous boil for forty minutes the beautiful clive green that was shown, with the rich odor of an antiquated egg. This was then diluted by running boiling water in until the cooking tub run through another gate valve and Starveout. It is a good plan to get 1% inch pipe through a sieve, 26 mesh per inch, into the spray tank on wagon, and team started for the trees.

The sprayer used was a Niagara gas sprayer of latest pattern. This was equipped with two lines of hose each 50 feet long; two extension poles. one having six nozzles and one with four nozzles. This machine is run by carbon dloxide gas. The gas was turned on and in thirty seconds the doctor had a pressure of 110 pounds. This was maintained, throwing the material with material with a hiss through the trees in a perfect mist and with such rapidity that the tank can be emptied in 25 minutes. The nozzles used were the

fine Vermorel.

This was done to show power and rapidity of spraying large trees. For general spraying the doctor uses two, heaves relieves coughts splay colds common means and the spraying the doctor uses two, heaves relieves coughts splay colds common the splaying the doctor uses two, heaves relieves coughts splay colds constitution. general spraying the doctor uses two, sometimes four, nozzles on each pole, stopping at each tree until it is thoroughly sprayed. With two nozzles only on each pole and with high pressure, the material will cover many more trees, as there is less waste of the material. The reason of long hose is for convenience of cetting around is for convenience of getting around trees and permitting the team to keep at a distance, so that the horses and driver will not be in reach of the material, which is very unpleasant.

Doesn't Fear San Jose Scale. On being asked as to the destruction of the scale, the doctor replied charge. that he no longer feared it, although it is the worst foe the fruit grower has to fight. He took the visitors to trees

that three years ago were condemned by scientific men as beyond recovery, but being trees of great merit, he de-tremined to save them if possible. Being a chemist and knowing the value of carefully compounding ingredients, he prepared his mixture on scientific It is said that Missourians "have to be shown," but evidently some other persons are constituted the same way, for in December a field meeting red, cambium red and even the wood

meeting and have an actual demonstration of how the mixture should be made and applied.

The day was ideal—one of those bright, sunshiny days, just cool enough to be pleasant. The fruit growers and farmers took advantage of it, and by 10 a. m. the doctor's fine orchards were througed with representative horticulturalists from Pennsylvania, Virginia, Maryland, Delaware, New Jeresy and New York. The unanimous verdict of those who saw the demonstration is that Dr. Funk has the most complete plant and the best methods of extermining the San Jose scale and other insects and fungus diseases of fruit trees yet discovered and put to practical use in this country. As one of those present remarked, "He is the Luther Burank of the East, and a wizard in the science of horticulture."

Such a thing as an off year is unknown at the Paragon Fra t Farm. Such a thing as an off year is un-known at the Paragon Fru't Farm, greeable. With Dr. Funk's plant he whether in peaches, pears, apples or can prepare 800 gallons per hour, if other fruits. They come into bearing at a very early age, with an annual man.—Western Fruit Grower.

beauty, the trees having an average top diameter of fifteen feet, and have produced at three and a half years two crops aggregating four baskets per tree.

In these orchards spraying is done the sometimes four times per year, the first being with lime, sulphur and salt while trees are dormant; the later sprays are Bordeaux mant; the later sprays are Bordeaux because the conform with the rates on divestock case five to open the livestock case five to open the eyes of the property friends in Hood River and want to keep them, don't mention anything about the gold that was discovered in the sewer trench.—Portland Journal.

Hood River in the Lead.

Speaking of the fruit growers' meeting held here the Oregon Agriculturist says: beef, and next by an injunction, pro hibiting them from refusing to obey

millionaire is often paraded in the pub-lic prints as a horrible example of the evils attendant on the possession of great wealth. But millionaires are not the and above the tanks; this is always full of tolling water. The beauty of this plant is everything is done by graylty from the time the materials. suffer far worse tortures than the mil-ilonaire unless they avail themselves of a standard medicine like Green's Au-gust Flower, which has been a favorite household remedy for all stomach troubles for over thirty five years. August Flower rouses the torpid liver, thus creating appetite and insuring perfect di-gestion. It tones and vitalizes the entire system and makes life worth living no matter what your station. Trial bottles, 25c; regular size, 75c, For sale by C. N. Clarke, druggist.

Hardy Strawberries.

Prof. N. E. Hansen of the Agricul-tural College at Brookings, S. D., discusses the subject of strawberries hardy enough for a temperature of 40 is also experimenting with raspberry plants, aiming to develop varieties that shall be perfectly hardy in their field without any protection.—Fruit

Word "Webfoot" Must Go.

At the suggestion of Tom Richardwas then dilated by running and the suggestion of Tom Richardboiling water in until the cooking tub
was full, when, by opening a gate
valve in bottom of tank, the liquid
was run through a 1½ inch pipe
through a sieve into the large graduated mixing tank on lower platform.
It was then further reduced by cold
water from hydrant from an underground eleters on higher ground until
dection for Courte presents. ground elstern on higher ground until election for Coyote precinct. There tank showed 100 gallons. It was then is a postoffice in the state named

The remedy that makes you cat, sleep and grow strong, called Palmo Tablets will be sold regularly by Williams Pharmacy, Hood River. These great nerve and constitution builders cost only 50e per box, six boxes \$2.50.

All old-time cough syrups bind the bowels. This is wrong. A new idea was advanced two years ago in Kennedy's Laxative Honey and Tar. This remedy acts on the mucous membranes of the throat and lungs and loosens the bowels at the same time. It expels all cold from the system. It clears the branes, relieves coughs, colds, croup whooping cough, etc. Sold by G. I

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FERRY

launches and two big ferry are the winners in the great Expert sailors in fruit exhibits. Boats leave at all hours. DEAN & PEARSON MAINE & BOWMAN. Licensed Ferrymen,

#### THOUGHT SEWER WAS RICH IN GOLD ORE

H. F. Davidson, president of the Davidson Fruit company, hoaxed Hood River citizens into a state of excitement yesterday by making them believe that gold had been discovered in a sewer trench that is being dug

The Davidson Fruit company is having some gold signs placed on the windows of their offices, and some of the gold leaf was scattered about the floor. Mr. Davidson went out and se-

floor. Mr. Davidson went out and secured some of the rock which had been blasted out of the sewer trench in front of his office, and applying the gold leaf on it judiciously, went forth in search of victims.

The offices of the Heilbronner Real Estate company are next door to his place, and going in he exhibited the specimen. There were several men in the place at the time, and after they had examined it they fell over each other in getting to the rock pile. The news soon spread about town that gold had been discovered in the sewer trench and the citizens came flocking down to stake out claims. Many estidown to stake out claims. Many esti-mates were made as to what the ore would pay to the ton, some of them running as high as \$1,000. The bait was taken so easily that

several more specimens were hurriedly fixed up and presented to some of Mr. Davidson's intimate friends with the injunction not to let it go out of their hands. One man, waiting his oppor-tunity when he thought no one was looking, burried off to the drug store to have the "acid test" applied, and as the gold leat was real it wasn't

In the meantime the hoaxer, who was going to Portland, heard the train whistle, and grabbing a piece of the A Sample Rate Instance.

The decision of the United States our at Chicago in the livestock case

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As Hood River is always determined to be in the lead in such matters as this, a society affiliated with the local society was then and there organized with a list of over 100 members, mak-

New York, at one time had her beauty spoiled with skin trouble. She write-I had Salt Rheum or Eczema for years but nothing would cure it, until I used Backlen's Arnica Salve." A quick and sure healer for cuts, burns and sores. 25c at C. N. Clark's drug store.

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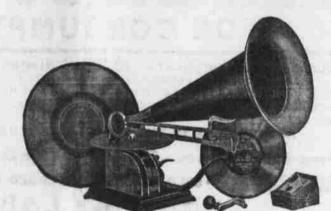
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