Morro Veino, Located in the Gold Belt of Brazil.

Was First Worked by Portuguese Discoverers in 1899-Combined Depths of Connected Shafts Have Reach 5,324 Feet.

In a recent bulletin of the Pan-American Union there is an account of the world's deepest mine, written by Benjamin Le Roy Miller of Lehigh university and Joseph T. Singewald, Jr., of Johns Hopkins. The mine is the Morro Velho, in the gold belt of Brazil, where the Portuguese were first induced to settle by the discovery of the yellow metal. The first gold was discovered in 1699, near the present city of Ouro Preto. The gold was coated with a black substance and hence was called "ouro preto"-black gold The city which they founded was called Villa Rica de Ouro Pretothe Rich City of Black Gold-a name which was somewhat cumbersome even for the Portuguese, so they finally shortened it to just Ouro Preto, the name by which it is known today. just why we came down here."-Ev-Once it was the most important city in Brazil, the valuable metal being obtained from the gravel of almost every stream in the region. Not only the stream gravels yielded gold, but many gold-bearing quartz veins were worked.

Just when the Morro Velho mine was first opened is not known, but it diddy. "'Tis if yo' says so, sah, but was being operated toward the close of the eighteenth century, and considerable work had been done when the thing when a smart white man tells present company obtained control of me diffunt. But let it go, anyhow, it in 1834. The ore body consists of sah; I means to give good measure. a great vein of unusual persistence Allus was plumb lib'ral dat-uh-way."and regularity that dips into the Judge. earth at an angle of about 45 degrees. It may be likened to a gigantic knife blade, held vertically and thrust into the earth at this angle, with the point still lower than the present deepest workings. And it is these workings that make the mine rearkable. The combined depths of the connected shafts give a total of 5,824 feet. In member her name." other words, here is a gold mine that is being worked at a depth of more than a mile below the surface of the warth.

The rock temperatures increase as the earth's crust is penetrated, in some regions the increase being as ly?" much as one degree Fahrenheit for each fifty to sixty feet increase in depth. At this rate the temperature at the bottom of this mine would be over and wonder how I happened to over 100 degrees higher than at the get invited." surface, and fried ham and eggs might be prepared for the miners without

any other heating apparatus than the <sup>1</sup> crooked walk the effect.

DEEPEST OF MINES loose rocks lying about. Incidentally miners would be going through the trying process, teo. Fortunately, how ever, in this mine the rate of increase of temperature is only one degree for every 100 to 120 feet, giving the rocks a temperature of only 112 degrees. By forcing cooled air down into the mine by means of fans the temperature is lowered to a little less than 100 degrees. Even at that it is rather snug and the miners usually wear only shoes, donning trousers when company is expected. The mine has produced a total of about \$55,000,-000 worth of gold, and is being worked now at a profit of something more than \$700,000 annually.

### Heeded the Sign.

Near Springfield, Mass., there is a big parklike estate owned by a man who has a strong detestation of trespassers. To prevent the violation of his privacy, he posted all manner of warning signs on his place.

One evening he encountered strange couple taking a "lovers' walk" on his property.

"Can't you read?" growled the owner, as he pointed to a sign. "We can read, all right," said the

swain "That sign there?" demanded the man, with another growl.

"We have read it," returned the other. "It says 'Private,' and that's erybody's Magazine.

### His Liberality.

"H'm! This is the tenth time you have been before me," sternly said Squire Peavy.

"Yassah!" replied Brother Ram-I was under de 'pression 'twuz de 'leventh. I don't pubsoom to say one

### Scheme Never Works.

At one of those large affairs in a studio a guest went up to his host and asked for an introduction to the woman in pink.

"Why, certainly, I'd introduce you to to her in a moment, but I can't re-

"Her name is Miss Smythe." "Come along then. Er-by the way, what's your name?"

### Accounted For. "Do you enjoy entertaining social-

"In a way," replied Mr. Cumrox. "When we have a party at my own house so many people don't look me

Whisky straight is the cause-a

THE SEMI-WEEKLY TRIBUNE. NORTH PLATTE, NEBRASKA.

**EFFECTIVE CONTROL OF SAN JOSE SCALE** 

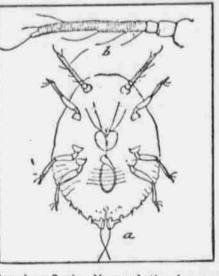
San Jose Scale-Blossom End of Pear Showing Scale, With Larvae and Adult Lady Beetles Feeding on Them-A, Adult Beetle; B, Larva; C, Pupa. (All Enlarged.)

(By LEONARD HASEMAN, University of Missouri, College of Agriculture.), ous effects upon trees, and the thor-The most effective and economical method we have at present for the control of the San Jose scale in the orchard is to spray with one of the best scale-destroying washes in the fall or early spring. There are a number of washes which are entirely effective when properly applied. These may be grouped in two main divisions -oil and lime-sulphur washes.

In some respects the oil washes have advantages over the lime-sulphur, while in other respects the latter has marked advantages. The oil washes are applied more easily, spread more evenly and creep down into cracks and crevices, where it is difficult to force the lime-sulphur wash. It takes less of an oil wash to cover the same surface and the average fruit grower is likely to spray more thoroughly with the oil washes, especially if he does not "retouch" trees sprayed with lime-sulphur. An oil wash, if used at proper strength, is more quickly fatal, which often enables it to destroy the scale before dashing rains come and wash it off. Among the disadvantages attending the use of oil washes may be mentioned the price of material, in case prepared commercial brands are used, and the greater danger of injuring the trees by successive San Jose Scale-Young Active Larvae applications.

The lime-sulphur wash is the old standard scale wash. It has been in use since the early introduction of the

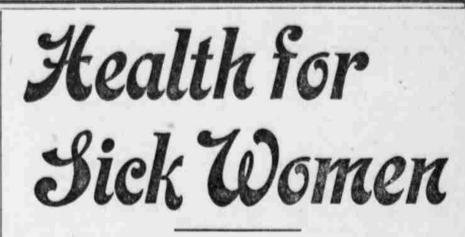
ous effects upon trees, and the thoroughness with which it can be applied if one goes to the trouble of "touching up" patches that are missed by the first application. The principal factors which make this wash out of favor with many fruit growers are the trouble accompanying its preparation by external heat and its caustic properties, which make it disagreeable to use. But with a little experience and



Before Settling Down-A, Central View of Larva, Showing Long Needlelike Setae, Greatly Enlarged; B, Antenna, Still More Enlarged.

care, one can prepare and apply it without suffering the least inconvenience.

The destruction of the scale by thorough fumigation is more certain than either dipping or spraying, since a gas is more penetrating than a liquid, but unfortunately the scope of its applicability is much limited. Where infested stock can be inclosed in a tight box, or rooms in which the deadly gas is generated, it can be comfreed of the scale. The prac tice of fumigating finds its greatest usefulness in the nursery, where infested stock can, with little extra labor and a slight expense, be carefully fumigated, which, if properly done, will not injure the stock and yet destroys every scale present. Fumigation is also used with success in young orchards where the trees can be covered with a tent or box made of heavy cloth, well saturated with oll, which makes it practically air tight. Orchards of large bearing trees have been successfully fumigated, but the expense of treating rapidly increases with the size of the trees, and it



For Forty Years Lydia E. Pinkham's Vegetable Compound Has Been Woman's Most Reliable Medicine -Here is More Proof.

To women who are suffering from some form of woman's special ills, and have a constant fear of breaking down, the three following letters ought to bring hope :--

North Crandon, Wis. — "When I was 16 years old I got married and at 18 years I gave birth to twins and it left me with very poor health. I could not walk across the floor without having to sit down to rest and it was hard for me to keep about and do my work. I went to a doctor and he told me I had a displacement and ulcers, and would have to have an operation. This frightened me so much that I did not know what to do. Having heard of Lydia E. Pinkham's Vegetable Compound I thought I would give it a trial and it made me as well as ever. I cannot say enough in favor of the Pinkham remedies."-Mrs. MAYME ASBACH, North Crandon, Wis.

### Testimony from Oklahoma.

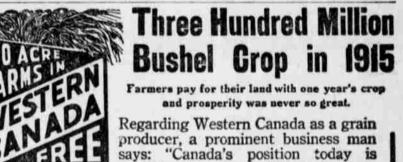
Lawton, Okla. — "When I began to take Lydia E. Pinkham's Vegetable Compound I seemed to be good for nothing. I tired easily and had headaches much of the time and was irregular. I took it again before my little child was born and it did me a wonderful amount of good at that time. I never fail to recommend Lydia E. Pinkham's Vegetable Compound to ailing women because it has done so much for me."-Mrs. A. L. MCCASLAND, 509 Have St., Lawton, Okla.

### From a Grateful Massachusetts Woman.

Roxbury, Mass.-" I was suffering from inflammation and was examined by a physician who found that my trouble was caused by a displacement. My symptoms were bearing down pains, backache, and sluggish liver. I tried several kinds of medicine; then I was asked to try Lydia E. Pinkham's Vegetable Compound. It has cured me and I am pleased to be in my usual good health by using it and highly recommend it."-Mrs. B. M. Osgood, 1 Haynes Park, Roxbury, Mass.



• If you want special advice write to Lydia E. Pinkham Medicine Co. (confidential) Lynn, Mass. • Your letter will be opened, read and answered by a woman and held in strict confidence.





## Efficiency In Childhood

comes with proper training-a most vital factor in which is right food.

If a child is to gain physically and expand mentally certain vital mineral elements-grown in the field grains-are imperative.

These elements, such as phosphate of potash, etc., are lacking in many foods, but abundantly supplied in the famous pure fcod-

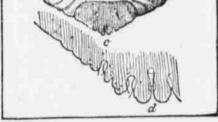
# **Grape-Nuts**

Made of whole wheat and malted barley, Grape-Nuts with cream or good milk supplies well-balanced nourishment-not only builds up the growing child, but repairs daily the wear and tear of body and brain.

Grape-Nuts has a delicious nut-like flavour-is specially processed for easy digestion-and is always ready to eat direct from the package. Economicalconvenient-and makes for efficiency.

### "There's a Reason" for Grape-Nuts

### Sold by Grocers everywhere.



San Jose Scale-C, Mature Female Removed From Scale, With Young Insects Showing Through Body Wall of the Parent; Greatly Enlarged; D, Anal Plate, Still More Enlarged.

scale into California and when properly prepared and carefully applied is should not be undertaken by the averextremely effective in controlling the age fruit grower in the orchard. He scale. Points in favor of the lime-sul- will get better results from fall or phur wash are the cheapness with spring spraying and run less risk of which it can be prepared, its secon- injuring his trees.

### WATCH FOR BORERS IN APPLE ORCHARD

-----

Examination of Trees Should Be Much Good Can Be Accomplished Made Twice Each Year-Use a Sharp Pointed Wire.

Apple trees should be examined for borers at least once or twice each year. In the spring and early fall are orchards right now, but there are also the times to look for borers. Probably other places where they occur plentiin the early fall is the better time if [fully. One of the most common winterjust one search a year is to be made. ing harbors is the packing shed or The presence of the borer is discov- cellar where apples were boxed ered by the brown castings they make. throughout the season. Wormy apples These are found at the base of the are, of course, taken into the packing tree. An incision is made with the sheds along with the good fruit and knife and a sharp pointed wire with a multitudes of the worms leave the apslight hook is inserted and the borer ples and hide wherever a suitable place is drawn out. If the hole does not run may be found. Cracks between boards, straight it may be necessary to soak | nail holes, knot holes, boxes and ruba wad of cotton in carbon bisulphid bish of all kinds in the shed are faand insert this in the hole and then seal the opening with moist dirt. The fumes of the carbon bisulphid will kill the insect.

The beetles can by prevented from laying their eggs in the trees by painting with pure white lead and linseed oil paint made pretty thick. The dirt should be cleaned away to a depth of about three inches so that the trunk can be painted below the surface to a height of more than a foot above ground. After painting the dirt should be replaced.

Best for Sweet Pickles. Sweet Russet is one of the best crop apples for sweet pickles Many like it to eat out of hand. It is not a good keeper, however, and should be planted only for home use.

The Chicago Post reports that the first Chicago girl to take advantage WINTER HARBORS OF of her leap-year privileges landed her man and married him within an hour THE CODLING MOTH That's the stuff. Look him over, girls, and be sure he is worth the powder and shot it would take to kill him, and then use the hooks. He can't get

by Destroying Larvae in Pack-

ing Sheds and Cellars.

Not only are the hibernating larvae of the codling moth to be found in the vorable places for hibernation.

In one packing shed examined a while ago there were a number of boards with old nail holes in them and nearly every one of them contained one or more larvae which had made their cocoons within and were comfortably located for the winter.

Much good can be accomplished by destroying the larvae in the packing sheds and cellars. In some cases it might be possible to screen sheds or caves so that the moths could not get out to lay their eggs upon trees in the spring.

While this search for hibernating worms is necessarily tedious, it is doubtful if people in those sections where it is necessary to spray from three to six times to keep down the codling moth can afford to neglect it

sounder than ever. There is more wheat, more oats, more grain for feed, 20% more cattle than last year and more hogs. The war market in Europe needs our surplus. As for the wheat crop, it is marvelous and a monument of strength for business confidence to build upon, exceeding the most optimistic predictions."

### Wheat averaged in 1915 over 25 bushels per acre Oats averaged in 1915 over 45 bushels per acro Barley averaged in 1915 over 40 bushels per acro

Prices are high, markets convenient, excellent land, low in price either improved or otherwise, ranging from \$12 to \$30 per acre. Free homestead lands are plentiful and not far from railway lines and convenient to good schools and churches. The climate is healthful.

There is no war tax on land, nor is there any conscription. For complete infor-mation as to best locations for settlement, reduced railroad rates and descriptive illustrated pamphlet, address Superintendent Immigration, Ottawa, or

### W. V. BENNETT, Room 4, Bee Bldg., Omaha, Nebr.

**Canadian Government Agent** 

Peace at Any Price. "Do you let your wife have her own

way?' "Certainly; and most of mine."-Boston Transcript.

ITCHING, BURNING SCALPS

Crusted With Dandruff Yield Readily to Cuticura. Trial Free.

Cuticura Soap to cleanse the scalp of dandruff crustings and scalings, and Cuticura Ointment to soothe and heal itchings and irritations. Nothing better, surer or more economical than these super-creamy emollients for half and scalp troubles of young or old. Free sample each by mail with Bock Address postcard, Cuticura, Dept. L. Boston. Sold everywhere .-- Adv.

All Off.

"How did the bowling contest come out last hight?"

"Nobody had any spare change for the pinboys, so they went on a strike."

## SUDDEN DEATH

The close connection which exists medical opinion, without charge ab between the heart and the kidneys is solutely free. This "Anuric" of Dr. well known nowadays. As soon as Pierce's is 37 times more active than kidneys are diseased, arterial tension lithia, for it dissolves uric acid in the is increased and the heart functions are attacked. When the kidneys no longer pour forth waste, uremic polsoning occurs, and the person dies and Every package of "Anuric" is sure to the cause is often given as heart disease, or disease of brain or lungs. It is a good insurance against such a

That's the Way, Girls.

Junk.

The Case Stated.

"Why, man, it was all scrap!"

"There isn't a scrap of evidence

Many an outwardly handsome wom-

away .- Houston Post.

the money?"

about this fight."

an is inwardly homely.

paper.'

risk to send 10 cents for a large trial the ever-famous friend to package of "Anuric"-the latest discovery of Dr. Pierce. Also send a

tel, Buffalo, N. Y. When you suffer from backache, frequent or scanty for the kidneys and backache. urine, rheumatic pains here or there, or that constant tired, worn-out feel- makes weak women strong, ing, it's time to write Dr. Pierce, de women well. No alcohol. scribe your symptoms and get his tablets or liquid.

system, as hot water does sugar. Simply ask for Dr. Pierce's Anuria Tablets. There can be no imitation be Dr. Pierce's. You will find the signature on the package just as you de

on Dr. Pierce's Favorite Prescription alling women.

Worry is a frequent cause and sample of your water. This will be sometimes a symptom of kidney dis-examined without charge by expert ease. Thousands have testified to imchemists at Dr. Pierce's Invalids' Ho- mediate relief from these symptoms after using Dr. Pierce's Anuric Tablets

Dr. Pierce's Favorite Prescriptic

"Smithers bought eight million shares of mining stock yesterday. "Great Scott! Where did he get "He didn't need much. He got the stocks for a cent a pound as waste