

PICRIC ACID MADE FOR WAR IS USEFUL FOR BLASTING STUMPS



To Blast a Stump Successfully Requires Experience and Judgment.

(Prepared by the United States Department of Agriculture.) Distribution by the United States Department of Agriculture of 12.500 pounds of picric acid salvaged from the war stores and destined to be used for farm explosives will arouse interest in the desirability and practicability of blasting stumps to clear off old wood lots for crop purposes.

The picric acid for distribution has been allotted to the states according to areas of cut-over lands. It is planned to establish an agency in each state to co-operate with the department, and the agricultural college in each state has been asked to act in that capacity.

Not Commercially Available. Picric acid is rather higher in explosive power than ordinary commercial dynamite as used in agriculture, but for manufacturing reasons is not likely to be on the market after the government's supply is exhausted.

In blasting stumps, the proper location and size of the charge depend upon the kind, size and age of the stump; the kind of soil and the amount of moisture in it; and the method of firing the charge which is to be used.

For top-root stumps a good method is to dig away enough earth as the side to permit boring an inclined hole well down past the center at the depth where it is desired to cut the root off. The hole should be at least eight inches deeper than the length of the cartridge to allow for tamping.

Where stumps have lateral roots, some experience and judgment will be necessary in placing the explosive, especially if only one charge is used. Generally the center of resistance will be the center of the stump, although sometimes roots on one side are much stronger than on the other.

Size of Charge. The size of the charge cannot be specified briefly, but one authority recommends roughly one-half pound of 20 per cent dynamite for each square foot of stump.

Lighting Rod Points. Farmers' Bulletin 842 from the Ohio experiment station gives the following advice for the installation of lightning rods:

Cover for Farm Machinery. Excellent Plan to Oil Up All Implements and Store Away for Winter—Paint Helps.

Best Feed for Laying Hens. Eggs Cannot Be Obtained Where Fowls Are Given Grain Alone—Mash Is Needed.

PROPER HOUSING FOR IMPLEMENTS

At End of Season Make List of Repairs Needed and Protect From Weather.

GIVE PLOW GOOD ATTENTION

Various Farm Tools and Machinery Should Be Put in Order Before Spring Rush—Carelessness Results in Great Loss.

(Prepared by the United States Department of Agriculture.) A farm implement that is laid by in bad condition at the end of the season is pretty likely to be found in the same shape, probably worse, in the spring, when the time comes for using it again.



Implements Should Be Cleaned, Greased and Sheltered From the Weather.

of one season and bringing forth a bright, sound tool ready for instant work next year.

KANRED HARD WHEAT IS HIGH IN YIELDS

Variety Is Resistant to Leaf and Stem Rust.

Developed From Single Head of Crimean Wheat Selected at Kansas Experiment Station—Pure Seed Is Important.

(Prepared by the United States Department of Agriculture.) Kanred is a wheat which is resistant to prevalent forms of leaf and stem rust, is less liable to winter kill than the Turkey or Kharkof, and matures from one to four days sooner than those varieties, which sometimes means escape from bad weather conditions.



Turkey and Kanred Wheat—The Latter Yields More Because of Rust Resistance, Earliness and Hardness.

Kill Next Year's Bugs.

Baking up the garden and burning stalks, vines and other vegetable debris in the fall will cause a shortage of winter homes for the bugs and fewer insect pests to bother next summer.

SPREAD OLD STRAW ON LAND

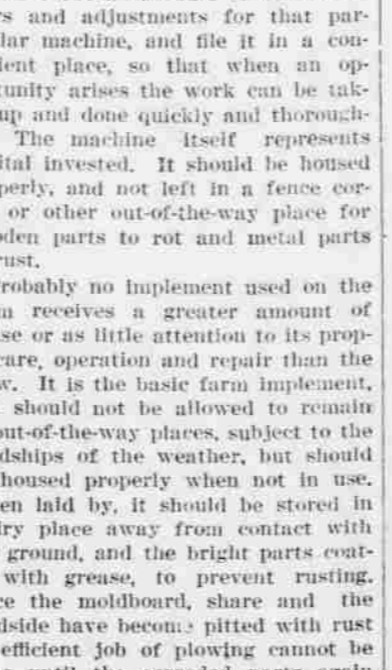
Considerable Fertility Can Be Obtained—Winterkilling of Wheat Is Prevented.

Farmers who have old stack bottoms they should put this straw in a manure spreader and put it on the land. Considerable fertility can be returned by this means, and at the same time an eyecore can be eliminated from the farm yard.

SEA-SNAKES.

Any member of the family "Hydrophidus" is termed a sea-snake. They are found inhabiting the tropical parts of the Indian and Pacific oceans, especially between China and Australia.

A Little Journey Into Space



Transporting the 100-inch Mirror From Pasadena to Mt. Wilson.

(Prepared by the National Geographic Society, Washington, D. C.) Man takes many trips on the face of the globe; it might be well for him to soar beyond the clouds to observe the time table and routes of the spheres and the relation of his earth to the celestial scheme of things.

But as soon as one looks out into space with the eye of the astronomer, there comes the discovery that in all its seeming greatness the earth is so small that even a telescope 10,000 times as powerful as the strongest instrument now in existence would not reveal it to an astronomer on any fixed star.

Compare with the sun, our planet's insignificance becomes evident. More than 1,300,000 spheres like ours would be needed to make a bulk equal to that of a single sun.

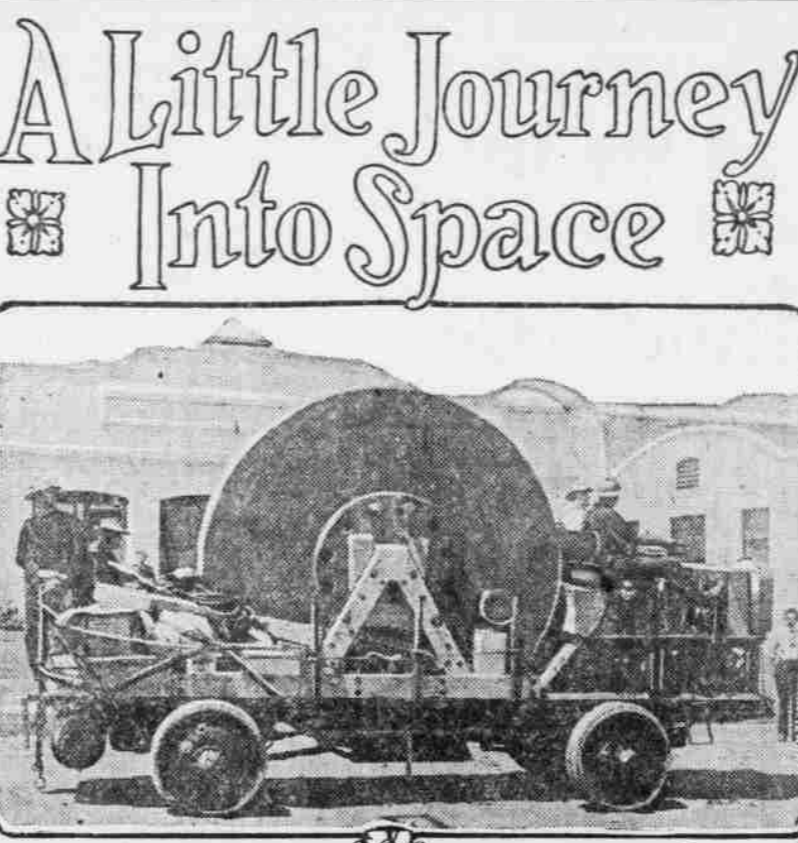
Perhaps our most graphic picture of the solar system is given by Herschel. Imagine a circular field two and a half miles in diameter; place a library globe two feet in diameter in the very center, 82 feet away put a mustard seed. The globe will represent the sun and the mustard seed Mercury.

At a distance of 142 feet place a pea, and another at 215 feet. These will represent Venus and the earth, both as to size and distance.

Setting His Doubts. A Boston man of discriminating taste, dining at his favorite eating place, ordered fricassee chicken, took one look at it and called the waiter:

He Alone Was Conventional. Western Paper—The groom in his conventional black suit was looking quite handsome, and the bride, attired in her pure white lingerie, was indeed a lovely and attractive picture.

The Block Signals Are Working. In some respects, human experience is like railroad.



Transporting the 100-inch Mirror From Pasadena to Mt. Wilson.

Even with telescopes as much more powerful than the biggest ones now in use as the latter are stronger than the naked eye.

So careful an astronomer as Agnes M. Clarke tells us that a skiff in a vast, untraveled ocean could not be more utterly alone than is our solar system in its little corner of the universe. She continues:

"Yet the sun is no isolated body. To each individual of the unnumbered stars strewn the firmament, down to the faintest speck of light, . . . it stands in some kind of relationship."

Star Cluster in Hercules. A faint idea of the stupendous number of stars that dot the sky and the staggering distance that separate them from our earth may be obtained from a fuzzy little speck of light in the constellation of Hercules.

When the sweet singer of Israel sang that "the heavens declare the glory of God and the firmament shows eth His Handiwork," he had never seen more than 5,000 stars.

Did Look Bad. "Oh, yes, we are engaged to be married next spring; but I fear she has not that utter confidence in me that comes with perfect love."

Tells Husband by Tread. A Japanese woman can tell her husband's approach by the sound his shoes make on the sidewalk, for each piece of wood in the heel of his shoe has its peculiar timber pitch.

Silence and Wisdom. Silence is very near akin to wisdom. There are folks who may not agree with that, yet it is true.



Never say "Aspirin" without saying "Bayer."

WARNING! Unless you see name "Bayer" on tablets, you are not getting genuine Aspirin prescribed by physicians over 21 years and proved safe by millions for

Colds, Toothache, Earsache, Headache, Neuralgia, Rheumatism, Neuritis, Pain, Pain.

Accept only "Bayer" package which contains proper directions.

Road to Fame. The road to fame is not an easy one and the efforts of novelists and writers to climb the ladder are full of reverses and disappointments.

Lines to Be Remembered. Education is a better safeguard of liberty than a standing army. If we renege the wages of the schoolmaster, we must raise those of the drill sergeant.—Edward Everett.

MOTHER! MOVE CHILD'S BOWELS WITH CALIFORNIA FIG SYRUP

Hurry, mother! Even a sick child loves the "fruity" taste of "California Fig Syrup" and it never fails to open the bowels.

STEWART LET DOWN LIGHTLY

In View of Silly Assertion, One Would Have Liked to See Him More Harshly Handled.

EASY THING TO PLACE HIM

Colored Man Might Have Thought He Was a Lion Tamer, but Comrades Knew Otherwise.

Sure Cure.

Mr. Yearwood—Pshaw! Breakfast has been late every morning this week. Can't you do something to get Bridget up on time?

He Alone Was Conventional.

Western Paper—The groom in his conventional black suit was looking quite handsome, and the bride, attired in her pure white lingerie, was indeed a lovely and attractive picture.

The Block Signals Are Working.

In some respects, human experience is like railroad.

Every moment of the business and social day the block signals are giving right of way to keenness and alertness—while the slow and the heavy must wait on the sidetrack for their chance to move forward.

That's why so many choose Grape-Nuts for breakfast and lunch. Served with cream or milk it is completely nourishing, partly pre-digested, and it supplies the vital mineral salts so necessary to full nutrition.