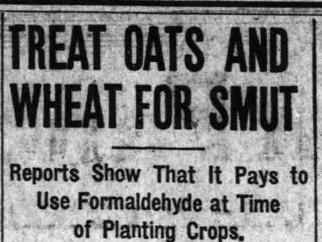


- OULD "Johnny Appleseed" find his way to thousands of our schools this fall he would see something that would well repay him for all the weary miles he walked planting apple seeds years ago. In many states Arbor day comes this fall, but the school children of the counpromise to make almost every day Arbor day is year and during the spring of 1920. Hundreds towns and cities have been entered on the naanal honor roll being compiled by the American restry association at Washington. The associaon hopes to see every young American citizen beme a "Johnny Appleseed, Jr."

You remember the story of Johnny Appleseed, they called him, who, many years ago, went up down the land planting apple-tree seeds? That s not his real name, but that is what he came to called. Of course-a lot of people laughed at n, for there were so many trees then. Many wight him crazed. But now his idea is taken to a good one. For many things have happened ee the day of Johnny Appleseed. The world r has set our people thinking about many ings. One of these things has been the way mber is being consumed. Then, too, there is the th cost of living that agitates everyone. In many ices the planting of nut and fruit trees is advored, and a campaign is on to have every victory , mener plant a nut or fruit tree in his garden or d yard. Another fine opportunity for planting memorial trees along the motor highways and d mads that are in the process of building. these calls of the American Forestry associathe people of the country are responding in ty fashion. So to the school children of the ntry comes a great chance to enter actively into study of outdoor life through the planting of es. The American Forestry association will nd any one a free planting day program and inuctions how to plant a tree. Coming Arbor days are: Georgia, first Friday in cember; Hawaii, first Friday in November: Coloto, Connecticut, Delaware, Florida, Illinois, Iowa, nsas, Kentucky, Maine, Michigan, Minnesota, vada, New Hampshire, New Mexico, North Daa, Ohio, Pennsylvania, South Dakota, Vermont. ginia, Wisconsin, Washington and Wyoming all te days set aside by proclamation of the govor; North Carolina, Friday after November 1; no Rico, last Friday in November; South Carothird Friday in November; Tennessee, Nomber date set by county school superintendents. th this day before us, Charles Lathrop Pack, sident of the American Forestry association, ds this message to the school children of the Ited States: No finer memorial can be erected by any school class than by the planting of a tree. Every will have a close and intimate interest in tree and therefore the school after he leaves. and not attempt to picture what that tree or sue of trees will mean to the class of 1920 when mores back to the old school for the class rein 1940. A space on the campus or a walk the town can be lined with trees, one for anember of the class. The American Forestry Mation is registering all memorial trees in a lonal honor roll and urges that all tree planting reported that it may keep its rolls complete."



GEORGETOWN UMYERSITY MEMORIAL PLANTING



**WORK OF DIFFERENT AGENTS** 

Practically None of Fields Giver Treatment Showed Any Signs of Disease - Farmers of Porter County Lost \$140,000.

(Prepared by the United States Depart ment of Agriculture.) Evidence that it pays to treat wheat and oats at the time of planting with formaldehyde to prevent smut is given in reports of a number of demonstrations conducted by Indiana county agents. Fields of oats in DuBois county, sown with seed treated with formaldehyde for smut as recommended by the United States department of agriculture and the State Agricultural college, showed practically none of the disease, while fields planted from seed not treated contained about 15 per cent smut, according to the local county agent's report.

Work in Warren County. As a result of the demonstration conducted by the county agent in Warren county it was found that a plot of oats planted with untreated seed showed 33 per cent smut, while another plot in the same field planted with treated seed was free from the disease. Other oat fields throughout the county that were not treated were infested with the disease in amounts varying from 7 to 35 per cent.

As the result of the damage done by wheat smut in Porter county, farmers will lose about \$140,000 on the crop, according to statistics compiled by the county agent. In checking up the dam- the horsemen of the department say age done by smut the agent found that they are extremely fortunate in getthe disease had caused 7 per cent detwo-thirds of the farmers of the county treated their seed and effected a saving of nearly \$100,000. Smut in Steuben County. The county agent of Steuben county, of active utility horses. in company with a representative of the United States department of agriculture, found one field of wheat with as much as 84 per cent of smutted heads, and considerably more than 50

# **GOOD STALLIONS TO** IMPROVE COLT CROP

Harvest Aid, Animal of Highest Type, Is Purchased,

Work at New Breeding Station at Buffalo, Wyo., Carried on by Government in Co-operation With State Officials.

(Prepared by the United States Department of Agriculture.)

A standard-bred stallion, Harvest Aid, 63908, an animal of the very highest breeding type, has recently been purchased by the United States department of agriculture and placed at the government's new horse-breeding station at Buffalo, Wyo. Work at this station is being carried on in co-operation with the state of Wyoming, the object being to develop utility horses especially adapted to western range and farm conditions. Harvest Aid is by the champion trotting stallion The Harvester, and his dam is Santos Maid, a mare which holds the trotting record of 2:08%, and a daughter of



A Sire That Insures an Improved Colt Crop.

Peter the Great, the leading sire of speed in America. Harvest Aid is an animal of great stamina, good size and conformation, and while he was selected on his merits as an individual. ting such a well-bred animal. It is not crease in the county's yield. About the purpose at the horse-breeding station to develop speed animals, but it is well understood that a good stallion from a family noted for its speed is highly desirable for the production.

## What is Best to Plant.

Ast spring and fall hundreds of trees were nted, but much bigger plans have been made tree planting this year and next. If you are planting fruit or nut trees you will want to what best to plant and here is a list of such s divided for you by states:

ew England states, New York, Pennsylvania, Jersey, Ohio, West Virginia, Kentucky, Indi-Michigan, Illinois, Missouri and Iowa: Hard--Sugar maple, Norway maple, scarlet maple, ash, white ash, American white elm, red oak, e oak, pin oak, American linden, scarlet oak. green-White spruce, Colorado blue spruce, e pine, Scotch pine, balsam pine, hemlock, vitae.

Maryland, District of Columbia, Vir-North Carolina, South Carolina, Georgia, see, Florida, Alabama, Mississippi, Louisi-Arkansas, Oklahoma and Texas: Hardwood-Wcamore, pin oak, white oak, scarlet oak, oak, red oak, white ash, bald cypress, Normaple, scarlet maple, red elm, American white Kentucky coffee tree, American linden, red black gum, hackberry, willow. Evergreen-<sup>le pine,</sup> longleaf pine, magnolia, live oak, cedar ebanon, American holly. sconsin, Minnesota, North Dakota, South Da-Nebraska, Kansas, Colorado, Wyoming, Monand Idaho: Hardwood-Bur oak, linden, Normaple, green ash, wild cherry, larch, American black walnut, hackberry, honey locust, black (less desirable, cottonwood, box elder). Ever-Scotch pine, Austrian pine, white pine, Norspruce, Colorado blue spruce, white spruce, edar, arbor vitae.



HE WHO DLANTS

STARE 21 INCHES BY FLET DRIVEN & FELT M GROUND

RUBBER COVERED W

CROWN 7 FEET

NULCH OF

RICH EARTH PAG

HOW TO PLANT THE TREE

WHITMAN MEMORIAL TREEAT CAMDEN, N.J.

basin): Hardwood-Norway maple, European linden, sycamore, green ash, silver poplar, Russian poplar, white willow. Evergreen-Lawson cypress, bigtree.

On the planting of a tree you will want to proceed with the greatest care. For the best results, organize a tree-planting program in your town. If there is no shade-tree commission or city forester, interest yourself in the proposition. In selecting trees for street planting the following qualities should be considered in about the order named: Form, hardiness or adaptability, rapidity of growth, shade protection, neatness and beauty. If there is any doubt on the question it is advisable to consult the state forest commission, the local forester or some other authority who can tell what varieties are best for a given locality.

No general rules, of course, can be given, but in a larger part of the eastern United States it will be found that for narrow streets the red maple, red gum or ginkgo can be recommended; for wider streets. Norway maple, basswood, horse chestnut or pin oak; and for wide avenues, white elm, white oak, red oak and tulip poplar.

## Qualities Needed in Street Trees.

Street trees should have hardiness and adaptability. They should be vigorous, be able to recover from mechanical injuries and be as resistant as possible against insect attack and disease. It is not desirable to have trees which cast too much shade, particularly on narrow streets. Houses and sidewalks need sun, even in summer. Deciduous, broadleaved trees are most satisfactory. Again, the question of neatness should be be considered; and the trees which will break up the pavement, such as silver maples, or those which cover the pavement with then bloom in the spring, such as cottonwoods and pupiars, should pe avoided. Black locust should not be planted because it is likely to be destroyed by the borer worm. Beech is a slow grower and casts toe dense a shade for any street.

Trees planted along a street should be of the same kind, the same size and uniformly spaced. On narrow streets trees planted every 40 feet apart, and alternated on opposite sides of the street, will be found sufficiently close. On wider streets they should be from 40 to 60 feet, or even farther apart, the distance being determined partly by the size which the tree is likely to attain and by other habits.

## MEMORIAL PLANTING AT LYNCHBURG VA

makes a beautiful lawn tree; either the native or the European species may be planted. The sour or black gum grows under most adverse circum stances, but apparently is not well suited for street planting, although as an oramental tree it deserves a place.

Purchase trees from a reliable nursery; beware of tree peddlers. Choose healthy, well-formed trees. Trees two or three inches in diameter and ten or twelve feet high are large enough for any purpose. Where smaller trees can be used, they generally give better results, because the root system is less disturbed by transplanting. Do not expose the roots to the sun, wind or frost. Keep wet blankets or canvas wrapped tightly about the roots until the tree is ready to be set out; then plant with the least possible delay.

Trim off any broken, torn or injured roots. Use a sharp pruning knife and make a clean, smooth cut. Remove all broken branches and cut back one-half to four-fifths of the previous year's branch growth. The size of the top must be proportioned to the size of the root system or the roots will be unable to supply sufficient water and food for satisfactory growth. Forest-grown trees have poor root systems and must be severely pruned by removing the greater part of the side branches. Never cut back the main stem or leader.

Dig Wide, Deep Holes.

Dig wide, deep holes. Trees become root-bound and make poor growth or die if the roots are cramped or twisted. The holes should be a foot or two wider and deeper than is needed to accommodate the roots. For street trees, the hole should be about twice on large as the root system actually requires. Partly fill the hole with rich loam and pack it down well. If poor soil must be used, mix with well-rotted manure. Green or partly decomposed manure will burn the roots and must not be used.

Do not plant the tree too deep. The upper roots should lie only an inch or two deeper in the soil than they grew originally. Spread out the roots in their natural position and work soil around them, a little at a time, compacting it firmly with the fingers or a pointed stick. Occasionally tamp it with the foot so that no air spaces remain. Also see that the stem of the tree is kept perfectly vertical. Now water the soil generously. The final inch or two of soil should be left fine and loose over the top of the hole to act as a mulch.

After planting, the tree should be staked to prevent it from swaying in the wind and growing crooked. The stake should be long enough to support the trunk for two-thirds the height of the tree. Trees exposed to traffic, horses and children should be protected by suitable wooden or metal guards. In case any injury to the young tree results, apply tree surgery methods at once.

Shallow cultivation of the soli for three feet around the tree is beneficial during the first few grasses can be obtained for pasturage, Better Prices Secured From Uniform years of growth. Loosen the top soil with a spade or hoe several times during the season to keep down weeds and grass. During the hot, dry summer months watering should be done not oftener than twice a week. Tree planting should form a permanent part of fall pasture. Pasturing stock on clothe improvement program in every city and town in the United States. It should not be undertaken in a temporary or haphazard manner; but it should receive the constant thought and attention of those who are interested in making the community attractive and at the same time in adding to the future timber resources of the United States. It must be remembered that what is done in one city or two serves as an inspiration to others. Let us keep in mind a thought of future so well expressed in the poem by Lucy Larcom, who said:



Protecting Seed Wheat Against Smut by Formaldehyde Treatment.

fields showed as high as 40 to 50 per pay you more than ever as a feed for sown in corn stubble ground the scab was much worse than where it followed other crops. The agent took advantage of the gatherings of farmers while they were thrashing to show how smut and other cereal diseases were causing losses and to demonstrate methods of seed treatment.



ther grasses or clover alone, and fur- the section who used limestone. nish the best kind of feed for all kinds of stock.

Where an abundance of cultivated further attention ne subject. Meadow aftermath containing clover, or timothy and clover, makes good fall feed. Clover growing in the stubble field is also an excellent ver often enables the farmer to pick up some of the wasted grain, and the droppings of the live stock are beneficial to the land.

## MAKE MONEY RAISING BARLEY

Experiments Show It Will Surpass Corn as Ration for Fattening Hogs If Properly Fed.

Experiments at the Wisconsin experiment station show that barley will surpass corn as a ration for fattening hogs if it is properly fed. Twelve lots of pigs were fed, using with some a corn ration, while the others were given barley. The return for each pig over the cost of feed was \$14.38 for the barley-fed pigs, and \$12.38 for the corn-fed porkers.

One of the most interesting facts brought out was the value of a barley and whey combination, which netted a handsome return, and the gains made with this ration were very rapid.

If you are in a region which is suited for the production of barley, or if you have been using it as a nurse crop for alfalfa, do not be discouraged by the prospect of a lower price, due to the curtailing of the use of barley in per cent of the crop was lost. Other the brewing industry. Perhaps it will cent of scab. Where wheat had been your hogs and your other live stock.

LIMESTONE INCREASES YIELD

Demonstrations Carried On for Two Years in Indiana to Show Value

of Ground Material.

(Prepared by the United States Department of Agriculture.)

For two years the county agent in Jefferson county, Ind., has been car-Highly Important to Keep Animals in rying on demonstrations to show the value of ground limestone on acid soils. In one demonstration this year an average of 251/2 bushels of wheat One of the essential factors in keep- were produced to the acre. Neighing live stock in good condition bors who helped thrash this wheat through the fall and early winter, and who have land that is just as which is highly important, is good good, except that they did not make fall pasture, says Andrew Boss, vice applications of ground limestone, obdirector of the Minnesota experiment | tained only 15 bushels to the acre. station. Nothing excels the grasses This high yield is hardly an exception, for pasture, though mixtures of the reports the agent, for similar results grasses and clover are better than ei- were obtained by other farmers in

## ADVANTAGES OF SAME BREED

Mexico, Arizona, Utah and Nevada: Hard-Backberry, honey locust, green ash, Amerithe black locust, bur oak, valley cottonwood, tain cottonwood, mountain ash, box elder. reen-Arbor vitae, deodar cedar, box, eu-

itomia, Oregon and Washington (coast re-Hardwood-Large-leaved maple, European sycamore, weeping willow. Evergreenar cedar, Monterey cypress, Monterey pine. Momia, Oregon and Washington (Columbia

Every tree should have at least six square feet of earth above its roots. It is more important that there be plenty of space where the pavement and roadway are paved with concrete than if brick or other loose-jointed materials are used. Keep the Roots Moist.

In planting a tree, move as many of the roots as possible. A cloudy day is better for transplanting a tree than a bright, sunny one, because a bright sun quickly exhausts the stored-up moisture. An important point is in regard to packing the earth around the roots. They should have close contact with the ground. To do this, fill in around the roots with finely pulverized earth, working it under and around the roots by hand and compacting it. If the earth is wetted down as it is put in, it will make a much better contact.

Many trees which are unsuited for one reason or another for a sidewalk are most attractive and ornamental in a park or on a lawn. The beech, for instance, which has no value for street planting.

### "He who plants a tree,

He plants love.

Tents of coolness spreading out above, Wayfarers he may not live to see."

So in honoring loved ones let us of the present look to the future and by memorial tree planting make this a better country in which to live, which, after all, is all the memorial those loved ones ask. Yet what a memorial, if it be accomplished!

## WOOD ASHES ARE VALUABLE home.

As They Have Peculiar Fertilizing Value They Should Be Carefully Stored Away.

The farmer who burns wood for heating or cooking should carefully store the ashes and not permit them to leach, as they have a peculiar fertilizing value. They not only contain tent of the organic matter in the soil. himself.

Product and Breeding Stock Secured Near Home.

Prepared by the United States Department of Agriculture.)

There are many advantages to be gained when the stock raisers of one . community raise the same breed. Better prices may be secured from the sale of a uniform product and suitable breeding stock can be secured near

## FARMER WHO AIDS FERTILITY

Dairyman Who Studies Feed for Land is Not Soil Robber-Something Must Be Put Back.

(Prepared by the United States Department of Agriculture.) .

The dairy farmer not only studies potash and phosphoric acid in appre- how to feed his cow, but how to feed ciable amounts, but also contain mag- his land. He is not a soil robber, as nesta and lime, and when applied to he realizes that the farmer who rethe land they also act indirectly to duces the fertility of his land robe increase the available nitrogen con- without reason, since he steals from