RAISING CHERRY

VARIETIES THAT HAVE PROVEN SUCCESSFUL IN MISSOURI.

By J. C. Whitten, Professor of Horti- ry. culture, University of Missouri.

Missouri cherry growing is largely confined to the sour types of cherin the sea-coast regions, are not very successful in Missouri. The sour chercooking and canning purposes. Where sufficient sour cherries are grown so as to market in quantity, they are one of our most profitable fruit crops. The demand always exceeds the sup-ply at fair prices. Furthermore, in this climate, cherries are a fairly safe crop. They are much surer bearers than many of the other orchard fruits.

Cherries reach their best development in well drained soils. If the soil is sandy, so much the better, Higher elevations are best adapted for them. They are not gross feeders, and will often thrive on thin which is well drained will produce fairly remunerative results in cher-

The best varieties for this state are Early Richmond, Montmorency and English Morello. They have generally proven successful in this state. As with most other fruits, however, there are successful new varieties coming into use from time to time. The Dukes and sweet cherries are occasionally planted sparingly for home use. They are not sure enough bear-ers however, to be recommended for commercial varieties, as a fule, in this state.

One-year-old cherry trees are probably preferable for planting provided they have made a strong growth and are well branched. Cherries are difneult to grow in the nursery, except in certain soils. Sometimes one-yearold cherry trees do not reach good size. In such cases it is probably better to plant two-year old trees. For commercial purposes, trees for planting should not be more than two years old.

preparing for cherries, the soil should be thoroughly plowed, har-rowed and pulverized. Planting may be done either in the spring or fall. In the southern half of the state, where the winters are less severe many growers prefer autumn planting. In the northern half of the state, where the winters are colder, early spring planting may possibly have the advantage. Cherries, however, may be successfully planted either in autumn or spring. The trees should he set in check rows, 20 feet apart each way. They should be set about as deep as they stood in the nursery. The soil should be packed firmly about the roots, leaving an inch of loose noti spread on the top to pre-

After the trees are planted, the trees should be given thorough cultivation for one or two years until they become thoroughly established and begin vigorous, active growth. The cultivation should be about the same that given to corn. Once the trees have become thoroughly established and in vigorous condition, which should be at the end of the second year, it is customary to seed down the cherry orchard to clover. From then on it should be left permanently

cherry trees do not respond to continued cultivation as do peaches. The one of the most backward of the fruit trees in putting out new growth where old growth has been broken off. This is as true of the root system as it is of the branches above ground. The disadvantage of cultivation probably lies largely in the fact that it breaks too many roots, which are not quickly or readily replaced by the tree. Sprouting or sukkering from the roots frequently occurs if the cultivation is kept up. The tree should not be cultivated much after midsummer, as it may cause it to go into the winter with green, unripened growth.

The first pruning takes place at the time the tree is to be set in the orchard. Any ragged wounds at the tips of the roots, caused by digging, should be cut off with a smooth cut. If any main root is long enough that it can not be gotten into the hole planting without bending, should be shortened. It is better to shorten the root than to have it twisted out of the normal shape in plant-

The shape of the top requires great care. The cherry, perhaps, needs to be pruned less than any other fruit Most of its fresh active buds are near the tips of the branches. The buds on the main stem and low down on the limbs become very dormant and inactive. New growth then, can push readily only from the growing tips, or near the terminals. Thus it is a mistake to cut back the limbs. as the active buds will be removed and the remaining parts of the tree will not push readily into growth. If it is necessary to remove any of the top of the tree to balance the cut root it is probably better to cut our a limb entirely than it is to shorten it. If the tree possesses more than three to five main limbs, the remainder may be removed en-

Many growers prefer to cut out the leader or central stem above the point of heading, leaving three to five main branches which become the framework of the future head of the tree. The writer prefers this open head system of pruning for the cher-

These main limbs should subdivide again until the necessary number of branches of the tree are finally produced. If a main limb starts a single shoot of new growth from its tip, it ries. Sweet cherries, which thrive may be induced to branch again by pinching the growing point. At the end of the second year the head ries, however, are the better for should be formed then by three to five main limbs starting from the trunk, and each of these dividing into two limbs at the end of the first year's growth. After this, enough branches should be allowed to form to give good fruiting surface. Close, crowded, or rubbing limbs, however, should be avoided, and the center of the tree should be kept sufficiently open or vase-shaped to admit sunlight and air. If the young tree is properly shaped during the first two or three years after it is planted in the orchard, only a little subsequent pruning will be needed each year. It will Almost any Missouri land not be found necessary ever to cut off any large limbs. Removing large limbs from a cherry tree should be avoided if possible. Perhaps the only justification for cutting off a large limb of a cherry tree is where, for any reason, the limb dies,

The most serious disease of the cherry in this state is the leaf spot Occasionally the fruit may fungus. be attacked by the curculio. The leaf spot fungus is held in check quite successfully by spraying with selfboiled lime suiphur. Arsenate of lead is the best poison for control of the curculio These two sprays may ne combined where both are to be

SPRAY FOR SAN JOSE SCALE

Description and Method of Treating This Orchard Pest.

One of the most dangerous of the fruit tree pests in this state is the San Jose scale. It can be identified by the tiny scales slightly raised in the middle, which are seen on the branches. Mr. W. H. Chandler of the Department of Horticulture" at the University of Missouri, given the folowing description of the pest and the method of treating it:

The insect of the San Jose scale inserts its beak into the bark of the tree and excretes a scale covering its body. It multiplies rapidly and may completely cover the bark of limbs in place. When the limbs bes likely to die.

San Jose scale can be readly controlled by spraying with boiled limesulphur or some of the miscible oils Directions are given below for the preparation of the various sprays.

The best time to spray is in the fall soon after the leaves are off, or in the spring when the trees are still dormant. Spraying to mid-winter is not only very disagreeable, but has been found to be less effective.

This insect attacks apple, peach, currant, pear and many other common frulia Every orchardist who is interested in the welfare of the state should strive to kill out this pest and eradicate it from the state. that are badly infested should be cut down and burned. Nursery stock is likely to be infented, but if it should happen to be found so, it should be burned also. The trees will It is not clear to most growers why be of very little use if they are bad-

One of the treatments for San Jo feeding roots of the cherry usually scale is a spray of miscible oil. There form abundantly near the surface of are various kinds on the market. the ground. These feeding roots are They are oils so treated that they doubtless more or less broken by cul- will mix with any proportion of wativation after the tree reaches some ter, generally giving a white emulsize. Roots which are broken off are sion. They should not be used unless not quickly replaced. The cherry is they emulsify. Sometimes, under certain conditions, the oil comes to the top when they are put into water instend of making an emulsion. In this condition it should not be used. Unless the oil has been frozen often, the company should be asked to make

It good. Another effective spray for the San Jose scale is the lime-sulphur, which can be made at home. It requires 15 pounds of lime, 15 pounds of sulphur and 50 gailons of water. Shake the lime to a thin, fine paste, add water to the sulphur until it becomes a paste, mix with the lime and stir the entire mass until all are well mixed. Add sufficient water to make up to a thin white wash. Bring the mass to the boiling foint and allow to boil vigorously for 45 minutes, Add enough water to bring up to fifty gallons and strain as it is poured into to-date." the spray tank. Apply while hot. The color will have changed in the boiling to a deep yellowish or brownish This mixture can not be used while the foliage is on the trees.

The appearance of the home grounds around the farm house should be a matter of more interest. The problem of keeping the boys at home on the farm, which is a great problem everywhere today, would not be so great if the surroundings were made more pleasant. There is very little time or work involved in keeping a neat lawn about the house. It is not difficult nor expensive to set a few plots of shrubbery in appropriate places around the grounds. But the results will be very striking. "The chickens can not be allowed the range of the front yard," says Professor Howard of the University of Missouri, "If the bluegrass is kept in good condition. But the chickens can find plenty of other range, and the yard can not be replaced."

TELLS WHAT SAVED HER LIFE.

I had tried several remedies but they did not seem to give me any relief. My doctor said I had kidney and liver trouble which I could not believe, as the pain seemed to be in my atomach. At times I had such dreadful pains that I could not move for three or four days and nothing would bring relief. I could not walk and in a short time I lost ten and one half pounds in weight, I also had fainting spells, backache and always that tired and sleepy feel-

A lady friend who appeared to be troubled in the same way as myself, recommended Dr. Kilmer's Swamp-Root. I procured several boitles and gave it a thorough trial and am glad to say that I am feeling perfectly well and like a new person. I cheerfully recommend Swamp-Root to all sufferers. I truly believe that Swamp-Root

saved my life.

Gratefully yours,

MRS, HENRY MUMM, R. F. D. No. 1, Box 49 Lowell, Ind.

Prove What Swamp-Root Will Do For You Send to Dr. Kilmer & Co., Bingham-ton, N. Y., for a sample bottle. It will convince anyone. You will also reconvince anyone. You will also re-ceive a bookiet of valuable informa-tion, telling all about the kidneys and bladder. When writing be sure and mention this paper. Regular fifty-cent and one-dollar size bottles for sale at all drug stores.

VAIN EXPERIMENT.



Daughter-Pa, why do you let the furnace go out every evening Mr. Romance comes to see me?

Father-1 am trying to freeze out the microbe of love, my deluded

CURED SIX YEARS.

No Fear of Further Kidney Trouble. Mrs. Josiah Clinker, State St., Tama, Iowa, says: "My first symptom of kidney trouble was intense pain in my back. This grew worse until I ached



in every part of my body. I rested poorly and was so stiff in the morning I found it hard to dress. I became tired easily, lost flesh and was in a bad way. I was well pleased with the

quick relief Doan's Kidney Pills gave me. They drove the pains away and restored my kidneys to a normal condition. I have been free from kidney trouble for six years."

When Your Back Is Lame, Rememberthe Name-DOAN'S." 50c, all stores. Foster-Milburn Co., Buffalo, N. Y.

Came Easy. Representative James T. Lloyd of Missouri was discussing the prestdent's belief that the extra session of congress would not try to revise the

He had about as much to go on. said Lloyd, "as the man who approached a banker with a request to end him money on a note. He wanted five hundred dollars.

'Can you get an indorser?' asked

"'Sure,' replied the prospective borrower, mentioning the indorser's

"'But has he got any money?" "'Lots of it,' answered the other. 'He wins it at poker.' "-Sunday Magazine.

Explanations.

Miss Fulloscul (of a poetical turn)
- Which are you of opinion one should say, professor: 'Summer files' or 'Summer flees?' "

Absent-Minded Professor (great on entomology)-"The two species, my Now, the common house fly-" Then he wondered why she suddenly opened a conversation with the young man on her right.-London Sphere.

Mad About It. "Binks is just crazy about being up

"How does he show it?" "He is trying to get his parrot a wireless cage."

CHRISTMAS POST CARDS FREE Sand To stamp for five samples of my very chole-est Gold Imposed Christmas and New Year Post Cards; beautiful colors and lovellest designa Art Post Card Gub, 731 Jackson St., Tupeka, Kansas

After all, young women judge a man more by his accomplishments than by what he has accomplished.

rs. Winslow's Soothing Syrup for Children ething, softens the gums, reduces inflamma-on, alinys pain, cures wint colle. He a bottle

In the hands of a woman the powder rag is mightler than the sword.

FATE AND THE FLETCHERS

Intervention That Made it Certain Hour for Senator's Death Had Not Struck,

Senator Duncan U. Fletcher of Flor ids sought his berth one night on a sleeping car on the way south from Washington. Pulling back the curains of a lower nine, he saw that his bed was already occupied.
"Hi, there!" called the senator,

shaking the stranger by the shoulder. The sleeper awoke and protested

M) name's Fletcher," explained the statesman, "and this is my berth." You've got nothing on me." swered the other. "My name's Pietch-er, and this is my berth"

My full name is Duncan U. Fletch " the senator elaborated.
So's mine," agreed the intruder.

"Ah, I see," said the senator, po litely. "There must have been a mistake in reserving the same botth for two men of the same name. I'll go into the next sleeping car."

The stranger, by this time, was fully swake, and proceeded to apologize, and to offer to give up the berth. This the senator would not do, but went into the car alread, and found a place

An hour later the train was wreck The car in which the stranger occupied the lower nine fell through a trestle, and that Pletcher was The senator's car was not damuged at all.—Popular Magazine.

MRS. SELBY AND PRIZE BABY

"I have always used Cuticura Soap and no other for my baby and he has never had a sore of any kind. He does not even chafe as most bubles I feel sure that it is all owing to Cuticura Soap, for he is fine and healthy, and when five months old, won a prize in a baby contest. It makes my heart ache to go into so many homes and see a sweet-faced buby with the whole top of its head a solid mass of scurf, caused by poor soap: I always recommend Cuticura. and nine times out of ten the next time I see the mother she says; 'Oh! I am so glad you told me of Cuticura." (Signed) Mrs. G. A. Selby, Redondo Heach, California, Jan. 15, 1911.

Although Cutleura Soap and Oint-

ment are sold everywhere, a sample of each, with 32-page book, will be mailed free on application to "Cuticura," Dept. 20 L, Boston.

Youth and Age.

"The difference between youth and age was never so well put," said Rev. W. Penlow, in an address at an Ocean Grove beach meeting, "as by playwright who wrote:

Youth, which is forgiven everything, forgives itself nothing. Age. which forgives itself everything, is forgiven nothing."

Pain and Swelling seldom indicate in-ternal organic trouble. They are usually the result of local cold or inflammation which can be quickly removed by Hamlins Wizard Oil.

Comparison. What is so rare as a day in June?" Well, the way we have steak for dinner is a good deal rater.

People who take the will for the deed never break into the millionaire class

900 Drops

ALCOHOL-3 PER CENT AVegetable Preparation for Assimilating the Food and Regula-ting the Stemachs and Bowels of

INFANTS CHILDREN

Promotes Digestion, Cheerful ness and Rest Contains neither Opium Morphine nor Mineral

NOT NARCOTIC Respect Old De SAMOEL PYTCHER Pumpian Sood
dis Sonnis dis Sonnis Richalle Sulte Anne Sood
Anne Sood
Richamand Ri

Aperiect Remedy for Constipa ion . Sour Stomach, Diarrhoea Worms, Convulsions, Feverish

ness and LOSS OF SLEEP Fac Simile Signature of The eff Flatcher.

THE CENTAUR COMPANY, NEW YORK. At6 months old

35 Doses - 35 CENTS Guaranteed under the Foodan

Exact Copy of Wrapper.

For Over

Thirty Years

The Kind You Have

Always Bought

Bears the

Signature

W. L. DOUGLAS

*2.50, *3.00, *3.50 & *4.00 SHOES WOMEN wear W. L. Douglas stylish, perfect fitting, easy walking boots, because they give long wear, same as W.L.Douglas Men's shoes. THE ENORMOUS INCREASE in the sale of W. L. Douglas shoes proves

their supericrity over all other makes for The workmanship which has made W.

L Douglas shoes famous the world over is maintained in every pair. If I could take you into my large factories at Brockton, Mass., and show you how carefully W.L. Douglas shoes are made, you

would then understand why they are warranted to hold their shape, fit better and wear longer than any other make for the price CAUTION The genuine have W. L. Douglas
If you cannot obtain W. I. Bouglas shoes in
Tour town, write for estalog. Shoes sent direct from factory to weater, all charges prepald. W.L. DOUGLAS, 145 Spark St., Brockton, Mass

Special Talent, "Can your boy read "The Illiad" In

the original?" "Not very well. But he can make ten yards around the left end almost every time "

Pessimism is the undigested fruit of experience.

Lewis' Single Binder, the famous straight fo cigar—simus! sale 11,500,000.

Every time you meet a grouch hand it a lemon.

Faint?



Have you weak heart, dizzy feelings, oppressed breathing after meals? Or do you experience pain over the heart, shortness of breath on going up-stairs and the many distressing symptoms which indicate poor circulation and bad blood? A heart tonic, blood and body-builder that has stood the test of 40 years of cures is

Dr. Pierce's Golden Medical Discovery

The heart becomes regular as clock-work. The red blood corpuscles are increased in number—and the nerves in turn are well fed. The arteries are filled with good rich blood. That is why nervous debility, irritability, fainting spells, disappear and are overcome by this alterative extract of medicinal roots put up by Dr. Pierce without the use of sleohol. Ask your neighbor. Many have been cured of scrofulous conditions, ulcers, "fever-sores," white swellings, etc., by taking Dr. Pierce's Discovery. Just the refreshing and vitalizing tonic needed for excessive tissue waste, in convaiescence from fevers or for run-down, anemic, thin-blooded people. Stick to this safe and same remedy and refuse all "just as good" kinds offered by the dealer who is looking for a larger profit. Noth-

ds offered by the dealer who is looking for a larger profit. as good" kinds offered by the dealer who is looking to be led to led by led by the looking will do you half as much good as Dr. Pierce's Golden Medical Discovery.

The Farmer's Son's

Great Opportunity

FREE Now's the Time

hat the number of settlers the Western Canada from the U. S. was 50 per cent larger in 1010 than the previous year.

Many farmers have paid for their land out of the proceeds of one grow.

W. H. Rogers, 125 W. North St., Kames City, He C.J.Breeghton, 417 Merchants L. & T. Elég., Ohio Fluones write to the agents mannest ye

FOR WALLS
AND
BOES ON LIKE PAINT; LOOKS LIKE WALL PAPER, YOU
A Dearthful Historiach brook of 24 colors and Photographs (1972 courts, Santon)

graphs for leave. Send your name and address to the KEYSTONE VARNISH CO., Brooklyn, N.Y. W. N. U., ST. LOUIS, NO. 46-1911.

TNAM FADELESS

How Fide Lost Out. "My girl used to think a lot of her pug dog, but I've managed to get the edge on him since we married.

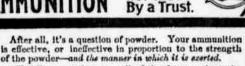
"How did you work it?" "Fldo wouldn't eat her cooking, and did.

Some men have a well-seated prejudice against giving up their place to a woman in a crowded car. Many who used to smoke 10c cigars now buy Lewis' Single Binder straight 5c.

Even the prude has occasional thoughts that she likes to think.

Constipation causes and seriously aggra-vates many diseases. It is thoroughly cured by Dr. Pierce's Pellets. Tiny sugar-coated granules.

Marriage is a contract-and there are lots of contract jumpers.



"Kick" is wasted power; all of the force ought to be forward. This result is possible only in Robin Hood Ammunition because our smokeless powders are the only ones that burn progressively and create velocity all along the barrel.

Try R. H. and prove for yourself that it shoots quicker, hits harder and kills further. Buy our Shot Shells and Metallic Cartridges from your dealer. Send for our booklet of ammunition facts.

> ROBIN HOOD AMMUNITION CO. 4th Street, Swanton, Vt.



