

Farm and Garden

BLACKBERRY CULTURE.

Planting May Be Done in the Fall or Spring.

The blackberry may be planted in the fall or early in the spring. But if planted too early in the fall young growth may start, which is likely to be winter killed. The soil should be well prepared and the plants set a little deeper than they were in the nursery in rows about eight feet apart and three feet apart in the rows. Some growers prefer planting them in hills seven or eight feet apart each way, thus finding them easier to control. Larger fruit is so produced, as they can be kept cultivated both ways. Summer pruning is important with the blackberry, as the lower canes can be kept the better they are likely to come through the winter and the easier they are to handle. Summer pruning consists in merely pinching back the young growth to within about eighteen inches of the ground, after which side shoots will be thrown out. It is better to err on the side of low pinching than to let the canes get too tall.

The summer pruning may be delayed until late growth, which will not ripen; hence it should be done in time or not at all. In the spring the laterals should be headed back to within eight



PHOTOGRAPH BY H. S. BOWEN TO THE EDITOR OF AN ADVERTISER

een inches or two feet of the main canes. Old canes and the weakest of the new ones should be cut out in the fall or early in the spring each year. There will be a light crop of fruit the second year and a full crop the third year. Four or five full crops are about as much as should be taken from one plantation.

The blackberry is not grown so largely as it might be. It is one of the most profitable fruits to grow where it succeeds well. Where there is no danger of winter killing a well drained clay loam is probably best for the blackberry, as it is cooler and more retentive of moisture than lighter soils. The blackberry must have plenty of soil moisture when the fruit is ripening, otherwise but little of the crop will develop. In the north, where hardiness is of greater consideration than conservation of moisture, the poorer and warmer soils are preferred, as the blackberry on these soils does not make as rampant a growth and hence ripens its wood better.

The berry patch shown in the cut was produced late in August. One-fifth of an acre yielded 100 bushels.

Moles Friends of the Farmer.

A distinguished naturalist carefully examined the stomachs of fifteen moles caught in different localities, but failed to discover therein the slightest vestige of plants or roots; on the contrary, they were filled with the remains of earthworms. Not satisfied by this fact, he shut up several moles in a box containing sods of earth, on which fresh grass was growing, and a smaller cage of grubs and earthworms. In nine days two moles devoured 340 white worms, 103 earthworms, 25 caterpillars and a mouse skin and bones, which had been alive in the box. He next gave them nothing but vegetables. In twenty-four hours two moles died of starvation. Another naturalist calculated that two moles destroyed 20,000 white worms or grubs in a single year. If this is correct it is a strong argument in favor of multiplying rather than destroying the moles.

The Open Top Tree.

It is not necessary to go over the tree trying to cut off every little twig. The leaders are the ones that need attention. When heading in these leaders it is best to cut them off to a side branch rather than to dormant bud. Frequently when an inexperienced man practices heading in he is tempted to shear the tree all over and leave it a smooth, oval form. It will be seen that this is very different from the method described above, where only the leaders are cut back and the side shoots thinned so as to leave an open top. The amount of heading in to be done should vary from year to year, according as the crop promises to be large or small. As the tree gets older less heading in is usually necessary.

Sugar Beets.

Last year was a banner year for sugar beets, but the estimate is made by the United States department of agriculture that the present year will eclipse all past records, as it is expected that over 500,000 short tons of beet sugar will be made.

COMPARISONS OF CLIMATE.

Some in Both Hemispheres Are Quite Similar.

When two regions on different hemispheres possess similar climates there is nearly always a similarity in their native vegetation, and it is a demonstrated fact that many of the plants native to one of the regions and themselves perfectly at home in the other. California conditions are markedly similar to those of the Mediterranean region, so that it is no surprise to find more than fifty plants from the latter region that thrive in California with marvelous vigor. It is conservatively estimated that over 75 per cent of the flora on the California range lands is made up of Mediterranean elements, mostly annuals, such as wild oats, but of evergreen shrubs, such as sagebrush, and many others.

The Great basin and the Columbia basin resemble California in one respect—namely, that the summers are dry and the winters wet. Indeed, the principal difference from California lies in the colder winters. The difference has not prevented the

introduction and rapid spread of most of the European annuals now so conspicuous in California. It is really little short of amazing how rapidly and extensively some of these plants have occupied the range lands at the expense of the native vegetation.

The conditions in Arizona are not very favorable to the plants that have found California conditions so congenial, with the exception of alfalfa. Alfalfa of all old world regions is most like Arizona, and from there, if anywhere, we should expect plants adapted to Arizona conditions.

Western Washington and western Oregon closely approximate in climate the British Isles, and practically everything that thrives in the one region is at home in the other.

The middle and south Atlantic states are similar to Japan and China in climate. It has long been recognized that all Japanese plants, especially ornamentals, thrive in this region perfectly. A number of them are at home, indeed, that they have literally taken to the woods and behave as natives. Witness the Japanese honeysuckle, Japan clover, allanthes, paulownia and the recently introduced Chinese violet.

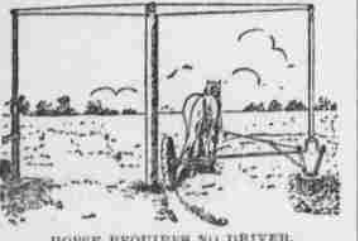
The cotton states evidently have much in common with India and southern Asia, whence we have obtained cottons, crab grass, Bermuda grass, velvet beans and many weeds, and to a less degree with Argentina where rescue grass, carpet grass, jamaican grass and a number of common southern weeds are native.

Of late years there has been increasing evidence that the high plains of northern Texas resemble the highlands of India. At least practically every plant introduced from the India highlands has succeeded better in the Texas Panhandle than elsewhere in the United States.

The great plains region lying east of the Rocky mountains and west of the one hundredth meridian finds its nearest parallel in climate in Asia. This is the region that gave us alfalfa.

Homemade Horsepower Pump.

The accompanying sketch shows a novel horsepower pump which is used on a northwestern ranch. This pump consists of a walking beam twenty to twenty-five feet long, which is pivoted at one end to the pump rod and at the other end to the shaft of an old mower wheel. The shaft is lengthened out to about twelve feet and bent into the shape of a crank near the end



HOISE REQUIRES NO DRIVE

opposite the wheel. The bearings for this crank are made from a piece of bar iron, V shaped, with a flat bottom. This iron is bolted down loosely to a piece of timber fixed into the ground. The horse is hitched on near the wheel. The V shaped bearing turns as the horse walks around in a circle, and the crank makes a double stroke for every revolution of the mower wheel. Where a well is deep two mowers wheels may be put together to add tractive weight. A horse soon learns to operate this pump without a driver.

The Bug Nuisance.

Dr. H. T. Foulard of the Massachusetts Agricultural college says that five-sixths of all the living creatures of the globe are insects and that not more than one out of ten is friendly to man. He estimates that \$2,000,000 or \$3,000,000 worth of damage is annually wrought by insects and that known means of protection, properly used, could prevent two-thirds of this loss. He is therefore impressing the necessity of a close study by all classes of people of this question with the hope of saving forest and shade trees and crops.

How to Exterminate Fleas.

The following directions are given to those who are annoyed by fleas: Insect powder used freely in the house and about the clothing is recommended by one who tried it. For all outdoor buildings use air slaked lime. Scatter the lime about freely.

A sure way is first to clean all the loose rubbish out and burn, then take one quart of crude carbolic acid, four quarts of water and a spray pump and spray house and barn two or three times. If you will get rid of them.

THE USEFUL HACKNEY.

Old English Breed Is Still Admired and in Great Demand.

The Hackney, an old English breed, is still much in favor, as was shown recently at the national horse show in New York city. "When bred for speed, endurance and style the Hackney is no equal," was the remark of one of the officials at the exhibition. It is a full breasted, short backed horse, with rather short legs, and carries its head and neck like the typical ranch horse. As compared with other coach breeds it is rather more sleeky and broader in shoulder and rump. It



YEARLING HACKNEY FOLL

twenty years breeders have aimed at a more stylish, high stepping gait, at times to an exaggerated degree.

The feet should be carried clear from the ground and well raised at the knee, as in the accompanying illustration, which indicates in an attractive way the stylish gait and conformation of the ideal Hackney.

The breed is remarkable for soundness and good constitution, with a great amount of bone and substance. Crossbreeding with native stock has given good results for both style and constitution. In this country the breed is quite abundant in eastern and southern states. The standard height of the breed is fifteen and a half hands, and the range of height is from fourteen to sixteen hands. It is one of the best all round roadsters and coach breeds.

Tobacco For Sheep Dips. The Kentucky experiment station, Lexington, found an excellent solu-

tion on sheep scab. In discussing suitable dips for curing this disease tobacco and sulphur are mentioned. It seems that tobacco varies in strength. When the decoction is not strong enough the scab germs are not strong enough. When too strong the sheep are made sick. The proper strength for using Kentucky tobacco is figured as follows:

Pounds of tobacco to use per 100 gallons of water:
Dark tobacco leaves 25
Sweepings of dark tobacco 60
Dark western Kentucky stalks 10
Dark western Kentucky stalks 10
Sweepings of dark tobacco 24
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The following directions are given for making the decoction: The part of the tobacco plant used for the decoction is soaked in lukewarm water for twenty-four hours in a covered pot or kettle. This mixture is then heated to the boiling point for an hour or two. The contents are then strained under considerable pressure so as to get out as much of the ooze as possible and diluted with sufficient water to make 100 gallons. The proper amount of sulphur, sixteen pounds, is then added and the entire mixture thoroughly stirred. If the water added is hard, it should be softened by lye or sal soda and warm enough so that the mixture complete will read at a temperature of 100 to 105 degrees F. During the dipping the contents of the vat must be kept quite stirred from time to time. As tobacco dips deteriorate quite rapidly, a fresh solution should be made up when the sheep are dipped the second time, which is usually from ten to fourteen days after the first dipping.

The Ideal Beef Steer.

The Iowa State Agricultural college sets forth as the analysis of a beef steer the following points: A beef steer, wide head; short neck, smoothly blended into the shoulders; broad, compact and well covered shoulders; wide, arching ribs; broad loin, deep body and long, wide hind quarters, well filled out in rump, thighs and twist; a deep, even covering of flesh—lean meat muscle—with just enough fat to marinate the flesh nicely and to give it a smooth, bright external appearance; fine bone, evidenced in refinement of head and limbs; pliable skin of medium thickness, with soft hair; a reasonable trimness of body to give good dressing percentage. These points make up the profitable steer for feeder or butcher and should govern the breeder in the production of beef animals.

Wrapping Fruit in Paper.

Any method of handling apples that hastens the ripening after the fruit is picked shortens the period of commercial value. Any treatment that checks the ripening prolongs the marketing period. The value of wrapping apples in paper has been tested in both seasons by the experiment station of the Iowa College of Agriculture and Mechanic Arts. The comparison was made with duplicate quantities of fruit that were grown and handled in the same way. One lot was not wrapped, and with the other each apple was wrapped in unprinted newspaper. With some varieties like the Gano, Roman Stem, Salome, Winesap and other hard, late ripening sorts the advantage of wrapping in paper was not very apparent. But with tender varieties like the Chameleon, Jonathan and Wealthy a wrapper was a distinct advantage in extending the life of the fruit, preserving its natural brightness and lessening the amount of decay. A wrapper serves to reduce the bruising that may result from poor packing or from rough handling in transportation. It retards shriveling and adds to the value of the fruit by preserving its attractive appearance. The wrappers cost about 20 cents per thousand for newspaper 9 by 12 inches.

Saved at Death's Door.

The door of death seemed ready to open for Murray W. Ayers, of Transit bridge, N. Y., when his life was wonderfully saved. "I was in a dreadful condition," he writes, "my skin was almost yellow; eyes sunken; tongue coated; emaciated from losing 40 pounds; growing weaker daily. Violent liver trouble pulling me down to death in spite of doctors. Then that matchless medicine—Electric Bitters—cured me. I regained the 40 pounds lost and now am well and strong." For all stomach, liver and kidney troubles they're supreme. See at all drug stores.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Eva Peterson, deceased, by the County Court of the State of Oregon, for Polk County, and that all persons having claims against the said estate are hereby notified to present the same, duly verified, to the undersigned administrator at his residence near Dallas, in said County of Polk, within six months from the date of this notice.

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lished in said County of Polk. The date of the first publication of this summons is December 11, 1909.

OSCAR HAYTER, Attorney for Plaintiff.

Notice of Final Settlement.

Notice is hereby given that the undersigned, as guardian of the persons and estate of the minor heirs of Gust Peterson and Malinda Peterson, his wife, both deceased, has filed his final account as to two said wards, viz., Anna (or Annie) Johnson, now Peterson, and Eva Peterson, (now deceased), in the County Court of the State of Oregon, for Polk County, and that on Saturday, the 24th day of January, 1910, at the hour of ten o'clock in the forenoon of said day, at the Court room of the said County Court in the City of Dallas, Oregon, has been appointed by said Court as the time and place for the hearing of objections to the said final account and the settlement thereof.

H. S. BUTZ, Guardian Afore said. Oscar Hayter, Attorney.

Administrators Notice.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Thomas H. Denny, deceased, by the Hon. County Court of Polk County, Oregon, and that all persons having claims against the said estate are hereby notified to present the same, duly verified, to the undersigned administrator at his residence in said County of Polk, within six months from the date of this notice.

Dated at Dallas, Polk County, Oregon, on the 17th day of December, 1909. THOMAS H. DENNY, Administrator of the estate of Thomas H. Denny, deceased. Sibley & Eakin, Attorneys for estate.

Notice to Creditors.

Notice is hereby given that the undersigned has been duly appointed administrator of the estate of Nancy J. Taylor, deceased, by the County Court of the State of Oregon, for Polk County, and that all persons having claims against the said estate are hereby notified to present the same, duly verified, to the undersigned administrator at his residence in said County of Polk, within six months from the date of this notice.

Summons.

In the County Court of the State of Oregon for Polk County. D. L. Key, Plaintiff vs. Preston Lung, Defendant.

To Preston Lung, Defendant: In the name of the State of Oregon: You are hereby required to appear and answer the complaint filed against you in the above entitled Court and cause on or before the 28th day of January, 1910, and if you fail to appear and answer, for want thereof, the plaintiff will take judgment against you for the sum demanded in his complaint, to-wit: For two hundred and fifty dollars and for his costs and disbursements herein.

This summons is ordered to be served upon you by publication thereof once a week for six successive and consecutive weeks in the Polk County Observer, a newspaper published weekly at Dallas in Polk County, Oregon, by order of Hon. Ed. F. Coad, County Judge of said County, for the County of Polk, duly made and entered on December 15, 1909.

The date of the first publication of this summons is December 17, 1909, and the date of the last publication thereof is January 28, 1910.

N. L. BUTLER, Attorney for Plaintiff.

Administrators Sale.

Notice is hereby given that by virtue of an order of the County Court of the State of Oregon for Polk County, the undersigned, administrator of the estate of Thomas Williams, deceased, has made and entered of record in said Court on the 7th day of December, 1909, in the matter of the estate of Thomas Williams, deceased, the undersigned administrator of said estate will, from and after Wednesday, the 19th day of January, 1910, proceed to sell the real property of said estate, hereinafter described, in one lot or parcel, at private sale, for cash, with said order of sale and of sale and in the manner prescribed by said law, subject to confirmation by said County Court.

The real property to be sold is situated in Polk County, State of Oregon, and is particularly described as follows, to-wit:

Beginning at the Northwest corner of the Ira A. Hooker Donation Land tract, No. 48, situated in Section 28, Township 9 South, Range 6 West of the Willamette Meridian in Polk County, State of Oregon, and running thence South 88 degrees East 40.25 chains; thence South 2 degrees West 38.81 chains; thence North 88 degrees East 39.35 chains to the place of beginning, containing 160.00 acres more or less.

Bids may be made to the undersigned in person or by mail.

Dated the 21st day of December, 1909.

ELLINOR WILLIAMS, Administratrix aforesaid. Address, Astoria, Oregon.

Oscar Hayter, Attorney.

Summons.

In the Circuit Court of the State of Oregon for the County of Polk. Department No. 2.

Nita Kahler, Plaintiff, vs. W. T. Kahler, Defendant.

To W. T. Kahler, the above named defendant: In the name of the State of Oregon: You are hereby required to appear and answer the complaint filed against you in the above entitled Court on or before the 29th day of January 1910, that being the last day for your appearance or answer by your order of sale and of sale and in the manner prescribed by said law, subject to confirmation by said County Court.

This summons is published for six consecutive weeks in the Polk County Observer by order of Honorable William Galloway, Judge of the Circuit Court of the State of Oregon for the County of Polk, which said order was made at chambers in the City of Dallas, in Polk County, Oregon, on the 15th day of December 1909, the first publication being ordered to be made on the 17th day of December 1909 and the last publication on the 24th day of January 1910, and the defendant being required to answer on or before January 29, 1910.

A. Q. CONNIT, Attorney for Plaintiff.

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THEY LOOK WELL—WEAR WELL—AND WILL NOT LEAK

LONG COATS \$3.00—\$3.50 SUITS \$3.00

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When past middle age, there comes a weakening of the body, and the danger of quick decline. It is quite necessary to give prompt help to any part that first shows signs of wear. Healthy kidneys mean a hale old age. Weak kidneys bring constant backache. If you have backache, lame or weak back, quick pains when stooping or lifting; if you are tired or nervous, have backache, dizzy spells, watery swellings under the eyes or around the ankles, rheumatic or neuralgic pains, gravel, scalding urine, too frequent passages, sandy or stringy sediment in the urine, scanty or discolored urine, or passages at night, be sure your kidneys need attention. Doan's Kidney Pills are the best medicine to use. It has cured thousands and will cure you. Home proof is convincing evidence of the efficiency of this remedy. Call at Fuller's Pharmacy and ask to see the statements of Dallas people who have used Doan's Kidney Pills. For sale by all dealers. Price 50 cents. Foster-McMillan Co., Buffalo, New York, sole agents for the United States.

Remember the name—Doan's—and take no other.

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