CIHM Microfiche Series (Monographs)

ICMH Collection de microfiches (monographies)



Canadian Institute for Historical Microreproductions / Institut canadien de microreproductions historiques



Technical and Bibliographic Notes / Notes techniques ec bibliographiques

The institute has attempted to obtain the best original copy available for fliming. Features of this copy which may be bibliographically unique, which may atter any of the images in the reproduction, or which may significantly change the usual method of filming are checked below.

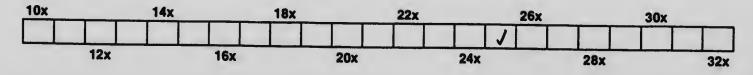
6.2

L'Institut a microfilmé le meilieur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques du point de vue bibilographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de fiimage sont indiqués cl-dessous.

| | Coloured covers / | | Coioured pages / Pages de couleur |
|-----|--|---|--|
| | Couverture de couleur | | |
| | Covers damaged / | | Pages damaged / Pages endommagées |
| 1 1 | | | |
| | Couverture endommagée | | Pages restored and/or laminated / |
| | 0 | | Pages restaurées et/ou pelliculées |
| | Covers restored and/or laminated / | | |
| | Couverture restaurée et/ou pelliculée | | Pages discoloured, stained or foxed / |
| | | | Pages décolorées, tachetées ou piquées |
| | Cover title missing / Le titre de couverture manque | | rayes decolorees, lachelees ou piquees |
| | oover me missing / Le mie de couverture manque | | |
| | | | Pages detached / Pages détachées |
| | Coloured maps / Cartes géographiques en couleur | Ļ | |
| | | | Chauthanuch / Tanana and |
| | Coloured ink // a athentice bive as black) | | Showthrough / Transparence |
| | Coloured ink (I.e. other than blue or black) / | | |
| | Encre de couleur (i.e. autre que bieue ou noire) | | Quality of print varies / |
| | | | Qualité inégale de l'impression |
| | Coloured plates and/or Illustrations / | | adame megale de l'impression |
| | Planches et/ou illustrations en couleur | | |
| | rianches evou inustrations en couleur | | Includes supplementary material / |
| | | | Comprend du matériel supplémentaire |
| | Bound with other material / | | |
| | Relié avec d'autres documents | | Person whether an experience of the second state |
| | | | Pages wholly or paniety obscured by errata slips, |
| | | | tissues, etc., have been retilmed to ensure the best |
| | Only edition available / | | possible image / Les pages totalement ou |
| | Seule édition disponible | | partiellement obscurcles par un feuillet d'errata, une |
| | | | pairienent obschleies par un reunier u errata, une |
| | Tight hinding move on the down and the st | | peiure, etc., ont été filmées à nouveau de façon à |
| 1 | Tight binding may cause shadows or distortion along | | obtenir la meilleure image possible. |
| | Interior margin / La reliure serrée peut causer de | | |
| | l'ombre ou de la distorsion le long de la marge | | Opposing pages with varying colouration or |
| | intérieure. | | discolourations are filmed twice to ensure the best |
| | | | discolourations are tilmed twice to ensure the best |
| | Displate state and a state of the state of t | | possible image / Les pages s'opposant ayant des |
| | Blank leaves added during restorations may appear | | colorations variables ou des décolorations sont |
| | within the text. Whenever possible, these have been | | filmées deux fois afin d'obtenir la meilleure image |
| | omitted from filming / II se peut que certalnes pages | | possible. |
| | blanches ajoutées lors d'une restauration | | possible. |
| | apparaissent dens la texte mais lamana de la texte | | |
| | apparaissent dans le texte, mais, lorsque cela était | | |
| | possible, ces pages n'ont pas été filmées. | | |
| | | | |
| | Additional comments / | | |

This item is filmed et the reduction ratio checked below / Ce document est filmé au taux de réduction indiqué ci-dessous.

Commentaires supplémentaires:



The copy filmed here has been reproduced thanks to the generosity of:

Department of Rare Books and Special Collections, McGill University, Montreal

The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed baginning with the front cover and anding on the last page with a printed or lilustrated impression, or the back cover when appropriate. All other original copies are filmed baginning on the first page with a printed or lilustrated impression, and ending on the last page with a printed or lilustrated impression.

The last racorded frame on each microfiche shall contain the symbol — (meaning "CON-TINUED"), or the symbol ∇ (meaning "END"), whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hend corner, left to right and top to bottom, as many fremes as required. The following diagrams illustrate the method:

1

| 1 | 2 | 3 |
|---|---|---|
| | | |

| 1 | 2 |
|---|---|
| 4 | 5 |

L'exemplaire filmé fut reproduit grâce à la générosité de:

Department of Rare Books and Special Collections, NcGill University, Montreal

Les images suivantes ont été reproduites avec le plus grend soln, compte tenu de la condition et de la netteté de l'exemplaire fiimé, et en conformité evec les conditions du contret de fiimege.

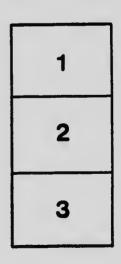
Les exemplaires originaux dont le couverture en papier est imprimée sont filmés en commençant par le premier plet et en terminant solt par la dernière pege qui comporte une empreinte d'impression ou d'iliustration, soit par le second plat, selon le ces. Tous les autres exemplaires origineux sont filmés en commençent per le première page qui comporte une empreinte d'impression ou d'iliustration et en terminant par le dernière page qui comporte une telle empreinte.

Un des symboles suivents appareîtra sur le dernière image de cheque microfiche, selon le cas: le symbole → signifie "A SUIVRE", le symbole ♥ signifie "FIN".

Les cartes, planches, tebleaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à pertir de l'engle supérieur gauche, de geuche à droite, et de naut en bes, en prenent le nombre d'images nécesseire. Les diagrammes suivents Illustrent la méthode.



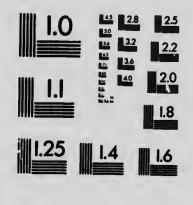
2

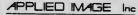


| 2 | 3 |
|---|---|
| 5 | 6 |

MICROCOPY RESOLUTION TEST CHART

(ANSI and ISO TEST CHART No. 2)





1653 East Main Street Rochester, New York 14609 USA (716) 482 - 0300 - Phone (716) 288 - 5989 + Fax





RJ Boxl

Э¥

M. B. DAVIS, B.S.A.,

Assistant to the Dominion Horticulturist.

STRAWBERRIES.

Strawberries require a moist, rich, rather light and leany soil to produce best results. The land should be in good condition and free from weeds. A heavy application of manure should be worked into the soil at time of planting, using well rotted manure, at the rate of 30 to 40 tens per acre. If impossible to obtain barnyard manure, turn under a crop of clover and use a fertilizer composed of 200 to 300 pounds muriate of potash (or 25 to 45 bush ls of wood ashes), 200 to 300 pounds of either ground bone or acid phosphate, and about 75 to 100 pounds of nitrate of soda. Apply this broadcast at time of planting. Set the plants in rows 3 to 3½ feet apart and 18 inches apart in the rows, care being taken to see that the crowns are not set either too deep or too shallow. The crown (the plane where root and stem are differentiated should be level with the zur ce of the soil. Planting is done preterably on a cloudy day, and the young plants should not be allowed to become dry at any time.

In selecting runners for propagation, select good-sized, healthy plants in preference to small ones.

After planting, give the plantation a thorough cultivation with a fine-tooth cultivator. Continue cultivations at intervals of two weeks through the season and after each heavy rain.

The blossoms should be kept pieled off the first season and the ground kept free from weeds. A few trips through the patch to place the runners properly should also be made. Thorough cultivation, weeding and attention to runners constitute the season's care.

After the ground is well frozen in late fall, a winter protection of straw, coarse marsh hay or litter should be placed on the plantation, covering the plants to a very slight depth. A light cont that will not lip heavily is all that is required. (See Cut 2.) This covering should be removed in early spring after the severe frosts are over. It may be removed to allow of cultivation at first and then replaced between the rows to make a mat for the fruit to lie on.

For best results only one erop should be taken from the plantation, although under most satisfactory management and condition. .ore crops may be profitably obtained.

VARIETIES RECOMMENDED.

Early .- Bederwood, per., Splendid, per.

Medium Early .-- Grenville imp., Pocomoke, per., Senator Dunlap, per., Williams, per.

Medium to Late .- Parson Beauty, per., Buster, imp., Sample, imp., Glen Mary, per.

For the Prairie Provinces.-Senator Dunlap, per., Bederwood, per., Creseent, imp., Lovett, per., Enhance, per., and Pocomoke, per.

When selecting varieties of strawberries for planting, be sure that at least one of the varieties to be planted is a *perfe* variety, and lay out the plantation in such a manuer that every third row will be growing are due to the neglect of this t.

DOMINION EXPERIMENTAL FARMS.

J. H. GRISDALE, B.Agr.,

Director.

W. T. MACOUN,

Dominion Horticulturist.

EXHIBITION CIRCULAR No. 84. (January, 1916.)

93924

FALL-BEARING VARIETIES.

As the fall-bearing arieties do not runner much, they should be put 1 foot apart in the rows and rows not further than 3 feet apart. If planted very early in the spring, a erop may be obtained the following fall without injury to the following year's erop. In this respect they differ quite markedly from other strawberries. The "Progressive" has proved the best variety at the Central Experimental Farm. "Americus" is also a good variety.

RASPBERRIES.

Ruspberries do best in a cool, moist and loamy soil. The soil must, however, have good drainage and not be waterlogged.

Raspherries are divided into two classes as to propagation, viz.: suckering varieties and tip varieties. The suckering class includes most of our best-known commereiul varieties. These are propagated from the suckers or shoots thrown up by the mother plant. These suckers are best lifted when one year old and may be planted in their permanent positions in the spring or full, making the fall planting during early September. At the time of transplating ent back the suckers to about 6 inches from the ground.

The tip class, or Black Cup Ruspberries, are propagated by the bending over of the tip of the cane to the ground where it takes root. The ennes may be bent over and held in position by covering the tips with soil. The rooted tips, after being severed, should be planted not more than two or three inches deep.

Suckering and tip varieties should be planted in rows 3 feet apart with the plants 3 feet apart in the rows, and practise clean cultivation throughout the season. In the Prairie Provinces, where it is necessary to completely cover the canes with earth, plant in rows 8 feet apart.

As soon as the Black Cup varieties have attained a height of 2½ or 3 feet pinch off the tips. This causes a more stocky growth of the cume. Old wood causes should be removed as soon as the fruiting season is over, or early in the spring.

In the colder parts of the country the ennes will require winter protection. This is necomplished by bending down the ennes in fall and pincing a few shovels of earth on them to keep them in position until eovered by snow. In the Prairie Provinces, however, it will be necessary to cover the ennes completely with earth. If it is not desired to cover the ennes, they should be pinched back when about 2 feet high, so that they will not grow too tall and will be partly covered by snow during the winter. Tall cames may require some trellis or support, which is cheaply made of wire supported ov cross-bars attached to posts at intervals of about 10 feet.

To grow a erop of raspberries successfully a rich soil is needed. A heavy appl tion of manure is the best fertilizer to use, and should be applied once every years, in most cases.

VARIETIES BECOMMENDED,

Red, Early.—King.

Main Crop.-Herbert for all districts, and Cuthbert for shipping and the more favoured districts.

Extra Late.—St. Regis Everbearing.

Yellow.-Golden Queen.

Purple.-Columbian, Shaffer.

Black Caps.--Hilborn, Older, Gregg.

For the Prairie Provinces.—(Red) King, Louden, Turner, Sunbeam, (Purple) Columbian, (Black) Older.

CURRANTS.

Like most other fruits, currants require a rich soil which should be cool and moist. In a hot, dry soil they will not succeed very well. At time of planting, unless the soil is rich, give a good application of manure, which should be well worked into the soil. The best time to plant corrants is in the fall of the year, as it is difficult to get them in the ground early the phants is pring-time. Plant six by five feet apart and be sure that the plants are set deep enough and the earth well transped around the young roots. Immediately after planting, enlitvate the soil to form a light maleh on top. Cultivation will be necessary throughout the summer, giving enough cultivation to maintain a light maleh on the soil all through the senson.

When the plantation comes into bearing, dressings of manure will be necessary, varying from once a year to once every other year. It is seldom that the soil for currants is kept too rich.

The priming treatment for black currants and red currants differs somewhat. The black currant produces its crop of fruit on wood of the *previous* season's growth, while the red and the white currants produce their fruit on wood that is two years old or more. In the case of black currants then it is necessary to leave a liberal supply of one-year old wood, while the older growths may be removed. With red or white currants, however, only wood that is over three years of age should be removed, leaving all the one- two- and three-year wood to bear fruit.

Currants are readily propagated by cuttings. For this purpose well ripened, new shoots are used. They should be ent early in the autumn and may be planted immedintely, using entrings of 8 to 10 inches in length, with a square cut at the bottom just below a good bud, and with at least a half inch of wood beyond the top bud. If impossible to plant in the autumn, they may be carried through the winter by tying them in bundles and hurying them upside down in light, well-drained soil. Five or six inches of soil will be required to cover the cuttings if heeled in outside over winter. If kept indoors, place in a cool cellar and bury in moist sand. When planting, put in nursery rows, with rows 3 feet apart and plants 6 inches apart in the rows. Plant in a deep trench so that most of the cutting is below the ground, leaving only the two top buds, at most, showing. These entings should be sufficiently rooted by the end of the first senson, so that they may be lifted and planted in permanent positions. If cuttings are planted in the autumn in a wet climate, it is well to cover the rows with a few inches of soil, which should be raked off in early spring.

VARIETIES RECOMMENDED.

Red.-Red Dutch, Greenfield, London Red, Red Grape, Perfection in favoured districts.

White.--White Cherry.

Black .- Boskoop Giant, Victoria Black, Black Chuat, on.

For the Prairie Provincess Red.-Raby Castle, Stewa 3, Red Dutch.

White.-White Grape, White Dutch.

Black.-Beauty, Naples, Lee's Prolifie, Saunders, Victoria.

BLACKBERRIES.

The blackherry is not what may be termed a hardy fruit, hence is not recommended for commercial planting in any but the mild districts.

Choose a soil which is retentive of moisture and not too rich in nitrogenoumaterial. Good elay boam is excellent in most cases and an application of well rotted manure will, usually, be found beneficial at the start.

Plant blackberries in the spring, as early as it is possible to properly work the land into condition. Set in rows 8 feet apart with bushes 3 feet apart in the rows. Constant and thorough cultivation will be necessary throughout the first season. When the plants have attained two feet in height they should be pinched back which will cause them to throw out laterals instead of growing to too great a height. In the autumn all canes but three or four of the strongest should be ent out.

During the second season pinel back all new shoots as soon as they reach two feet in height. This will require several trips through the plantation. This year five or six of the strongest canes may be left, removing all others. The removal of all canes that have borne fruit and also all but five or six of the strongest new ones will constitute the annual pruning after the second year. This is best done in early autumn. The laterals are cut back in the spring, the amount of heading back depending upon the habit of the variety being grown, as some varieties bear blossoms further out than others. In most cases not more than two feet of lateral is left.

Some sort of winter protection is generally advisable in severo climates. This is necomplished, as in raspberries, by bending down the tips and covering them with soil to keep them in position until the snows have covered completely the reenubent canes.

Hackberries are propagated by suckers, the same as raspberries. They may also be propagated more rapidly by division of the roots, the root being cut into pieces about three inches in length in the fall or in the spring. These entrings should be planted to a depth of about three inches in nursery rows, and at the cud of one season will have grown sufficiently for transplanting.

VARIETIES RECOMMINDED.

Agawam, Snyder, Eldorado.

DEWBERRY.

The dewberry is really a trailing blackberry and 14 handled much the same as the true blackberry. The dewberry is either tied to stakes 4 feet apart each way and 3 or 4 feet high, or trained to a trellis in rows 6 feet apart, with plants 3 feet apart in the rows.

In pruning dewherries it is only necessary to prune back the canes in spring if they are too long, and thin out to four or five good strong canes for each hill.

Propagation is earried on by the tips of the new growth falling to the ground and taking root.

VARIETIES RECOMMENDED.

Lucretia and Mayes (Ansten Improved).

Blac berries and Dewberries are not recommended for the Prairie Provinces.

GOOSEBERRIES.

Gooseberries will not succeed in a dry soil: they require a cool, moist soil, preferably a heavy cluy loam which is well drained. Like other bush fruits they require a soil with plenty of available plant food, which is best supplied by applications of well rotted baruvard manure.

Planting is preferable in the autumn, say about September. Place in rows 6 feet apart with the plants 4 feet apart in the rows. Shallow, but frequent and thorough, cultivation will be necessary during the summer months to retain the soil moisture.

Pruning is best done in the autumn and all wood over three years old should be removed, together with some of the younger wood. The amount of younger wood removed will depend upon the growth of new wood made by the bushes. Cut off at the ground all weak young shoots and any stray ones that arc is required for fruiting. A moderately open head is best, and to maintain such it win be necessary to head or cut back the side shoots, and in many cases to totally remove them, but care should be taken to see that sufficient foliage-bearing wood is left on the top to shade the fruit in hot weather.

Gooseberries are best propagated by layering, although cuttings may be used. For layering purposes the bushes should be severely pruned in the antumn to induce a vigorons wood growth the following season. After the bushes have about completed their new growth, say from the first to the middle of July, earth should be heaped around the bush to be layered, making sure that the earth is also distributed through the bush. This is heaped up until only the tips of the young shoots show, after which it is tamped down, and then covered with a mulch of loose earth to prevent rapid drying out of the mound. By autumn most varieties of American gooseberries will have rooted, but the English varieties require two years to complete the operation. As soon as the shoots have rooted the soil is removed and the rooted shoots severed from the parent bush and planted.

VARIETIES RECOMMENDED.

Pearl, Downing, Josselyn, (Red Jaeket). For the Prairie Provinces.-Houghton,

Published by authority of Hon. MARTIN BURRELL, Minister of Agriculture, Ottawa, Ont.



