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Vol. III.]

[No. 7.

THE

Canadian Horticulturist,

PUBLISHED BY

The Fruit Growers' Association of Ontario.

JULY.



EDITOR:

ED. W. B. ...

ST. CATHARINES, ONTARIO.

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1880.

SPECIAL NOTICE TO MEMBERS.

THE SUMMER MEETING

WILL BE HELD AT

GUELPH, in the Town Hall,

— ON —

Tuesday, the Sixth day of July, 1880,

Commencing at Eleven o'clock in the Forenoon and
continuing through the day and evening.

At the special request of the Honorable the Commissioner of Agriculture, who is expected to be present, the following subjects will be discussed:—

- 1st—Which varieties of Strawberries are least injured by late frosts?
- 2nd—What Raspberries succeed best in the vicinity of Guelph?
- 3rd—Do the Gooseberries suffer from mildew?
- 4th—Are any kinds of Blackberries successfully grown near Guelph?
- 5th—What are the advantages and best practicable methods of planting trees and shrubs for shelter, ornamental and economical purposes, adapted to the present condition of Ontario and the means of farmers generally, and the most suitable varieties to be employed for effectually securing these objects?

In connection with the above, the following questions are suggested:—

What are the advantages of tree growth and shelter on climate, rainfall and the protection of growing crops?

What are the economical uses of woods other than pine, and what are their respective commercial values?

What trees can be best cultivated on barren lands, or lands too rough or too hilly for agriculture?

What are the best methods of raising or planting forest trees, or hardening them to resist the effects of climate?

What trees are best adapted to the various sections of the Province?

What is the cost of tree planting per acre or in rows?

What foreign trees can be most profitably acclimatized in Ontario?

How can tree planting be best encouraged?

What means can be taken to popularize the study of forestry, particularly among the sons and daughters of farmers?



SHARPLESS STRAWBERRY.

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The Canadian Horticulturist.

VOL. III.]

JULY, 1880.

[No. 7.

THE SHARPLESS STRAWBERRY.

This new variety of strawberry has attracted so much attention, and seems to possess so many points of excellence, that we have sought to give the members of our Association not only a verbal description of the fruit, but a nicely executed colored representation. Through the politeness of Messrs. Ellwanger & Barry, who were the first to call attention to this new fruit in western New York, and who had a cut made of it expressly for their catalogue, this cut has been placed at our service, and we are thus enabled to present it to you with this number of the CANADIAN HORTICULTURIST. Of the excellence of the execution it is quite unnecessary to speak; the plate itself invites inspection and criticism. That it is faithful as a correct representation of the fruit is of more importance to our readers, and we can assure them that it was carefully drawn from nature, and by no means exaggerates in any particular. It represents a single truss, and shews the usual relative size of the berries.

This new strawberry was raised from seed in 1872 by Mr. J. K. Sharpless, of Catawissa, Pennsylvania, and bears his name. The Pennsylvania Fruit Growers' Society thought so highly of it that they gave a colored plate of the fruit in their Report for 1878, and speak of the plant as being vigorous and luxuriant in growth, hardy and prolific, while the fruit is described as being firm in flesh, with a delicate aroma, and first in quality.

The berries are large, often very large. In the summer of 1878 the nurserymen held their midsummer meeting at Rochester, and among the berries of this variety which were exhibited at that meeting was one that weighed an ounce and a half, and that measured seven inches in circumference.

The plant has a good reputation thus far for hardiness and vigor, and for abundance of yield, the crops being represented as large under ordinary treatment. It is very natural for any of us to give a little

extra care to a new fruit which we are testing, and it may be that the ordinary culture of some fruit growers would be quite extraordinary with others. Yet the current of testimony is to the effect that it is a productive variety.

In point of flavor it ranks high, all who have given their opinion agreeing that it is among the first in quality. Messrs. Ellwanger & Barry do not hesitate to say that it is "the best strawberry now in cultivation." The fruit is borne upon long trusses, but the weight of the berries is such that they are bent to the ground.

We have not yet fruited this variety, and therefore can not speak from personal acquaintance with it in our own grounds; but such is the high estimate formed of it by gentlemen who are competent judges of the merits of any fruit, that we are constrained to believe that it is well worthy of the attention of strawberry growers, and especially of gentlemen who grow them in their gardens for their own tables.

THE GRAPE VINE FLEA-BEETLE.

Professor J. Henry Comstock, of Washington, District of Columbia, writes to the New York *Tribune* concerning this little, but sometimes troublesome insect, that he has been making some experiments in the way of killing it when numerous. His communication is as follows:

The Grape Vine Flea-Beetle (*Haltica chalybea*, Illiger) has been one of the most formidable enemies that the grape growers of this country have had to contend with. The only redeeming feature about it is that it seldom appears in the same locality in great numbers during consecutive years. These beetles leave their hibernating quarters in April, and attack and destroy the young leaf-buds as soon as they appear; later they feed upon the leaves which have escaped their earlier ravages, and deposit their eggs upon them. The eggs are of an orange color, and soon hatch into small chestnut colored larvæ. These larvæ also feed upon the leaves, and when they appear in great numbers sometimes strip the vines of their foliage. After a month of active life the larvæ descend to the ground and bury themselves near the surface, where they make cells of the earth and change to pupæ of a dirty yellow color. The adult beetles issuing in the course of a few weeks, again feed upon the leaves during the autumn, doing, however, but little damage, and later seek their winter quarters beneath the bark and splinters on the vines and the stakes which support them, as well as under any rubbish that may be in the vineyard.

This week specimens of this insect were brought me by Mr. A. R. Phillips, of this city, with the statement that his vineyard in Virginia is

infested with them to a perilous extent. I at once sent Mr. L. O. Howard, my first assistant, in company with two others to the vineyard in question for the purpose of experimenting with remedies. Mr. Howard's report was very gratifying. Finding it impracticable to jar them from the vines into sheets or other receptacles, and keep them there, he hit upon the plan of drenching the sheets with kerosene; this worked in a most satisfactory manner. The mode of procedure is as follows: Take two pieces of common cotton sheeting, each being two yards long and half as wide; fasten sticks across the ends of each piece to keep the cloth open and then drench with kerosene. Give the sheets thus prepared to two persons, each having hold of the rods at opposite ends of the sheets. Then let the persons pass one sheet on either side of the vine, being careful to unite the cloth around the base of the vine; then let a third person give the stake to which the vine is attached a sharp blow with a heavy stick. Such a blow will in nearly every case jar the beetles into the sheets, where the kerosene kills them almost instantly.

This process, after a little experience, can be performed almost as rapidly as the persons employed can walk from one vine to another. The expense necessary is very trifling, and boys can do the work quite as well as men. Warm bright afternoons are the proper times for this work to be done, and it should be performed faithfully every sunny day until the vines are out of danger. This mode of combatting the beetle promises to be much more effectual than any other which has been hitherto suggested; for it can be used early in the season before the vines are seriously injured and before the insects have begun to multiply. In connection with the above, the remedies which have been recommended often should, if necessary, be used. These are as follows: First, all rubbish should be removed from the vineyard, and the stakes and trellises which support the vines be well cleaned of bark and splinters, so as to afford the beetles little chance for hibernating in the vineyard. Second, if the larvæ appear in great numbers, lime should be sifted over the vines.

LIQUID MANURE FOR PLANTS.

Some time ago there appeared in one of the English Horticultural periodicals the following recipe for making liquid manure that could be safely applied to growing plants without danger of injury. It was as follows: Put a bushel of the clippings of horses' hoofs into a barrel and fill it up with water. Let it stand for a week, when it is ready for use. Apply it with a watering-pot. All bedding plants can be watered with this liquid every other day, if they are not pot bound. Repotted plants should be watered once a week until they have plenty of working roots to take up the manure. It will also be found excellent for hard-wood plants if used once or twice a week. Two or three weeks after the plants have been watered with the

maure water, the foliage generally changes from a green to a golden yellow, moving from the stem down to the point of the leaf, which, however, lasts only for a few weeks, when it changes to a dark, glossy green. Plants under this watering grow very strong, and the flowers are very regal and bright in color. Plants thus treated can be kept in very small pots for a long time without being transplanted.

We find this recipe now going the rounds of the American journals, credited to a Baltimore florist, who seems to say as the result of his experience that this liquid manure, applied in the manner mentioned above, is especially advantageous to market gardeners, enabling them to sell plants grown in three and four-inch pots as large and attractive as those shifted into five and six-inch pots, when only rich soil is used. It is added that plants grown in this manner by the use of this liquid fertilizer, will bring twenty-five per cent. more than those grown in the ordinary way; having this additional advantage, that being in smaller pots they can be packed closer, will weigh less, and can be easier handled. It is also claimed that this fertilizer is not a stimulant but a plant food, and that plants which have been watered with it will not fail when planted out, but will continue to grow and keep in growth, which is not the case when they have been stimulated with guano, while it is claimed that it is as quick in its action as guano, fully as powerful, and more lasting in its effects.

Further, it is said not to do the slightest harm to the foliage, should it come in contact with it; that it does not form any crust on the pots or soil, and that it is cheaper than any other good fertilizer which is used in a liquid form. The hoof clippings do not require to be renewed oftener than twice a year, even if the water is drawn off and filled up again every day. If liquid guano is used too strong, it will cause the plants to drop their leaves, but this liquid can be used even twice a day for a short time without injury to the plants.

CORRESPONDENCE.

THE AGRICULTURAL COMMISSION.

MR. EDITOR,—In looking over the *Daily Globe* of the 12th instant, I was very much interested in the Report of the Agricultural Commission, and was very much pleased to see the growing interest taken in the science of Horticulture, for a science it is, and the more it is studied as such the more thoroughly it will be practically appreciated by the farming com-

munity of our country. In your examination before the committee, in answer to the various questions proposed—one of them was the time required to bring the different varieties into bearing—you instance the Red Astrachan and the Duchess of Oldenburg, but forgot our precocious little Wagner; and then go on to notice other varieties, the Spy among the rest. Now, just here comes in my object in sending you this "clodhopper" article for your consideration. In my little experience of fruit raising, I have observed that both climate and soil have a large influence in determining the time necessary to bring the different varieties into bearing. You say the Spy requires ten years. On my farm, situated at the base of the limestone ridge in the County of Halton—a calcareous clay soil—the Spy came into bearing in seven years. On A. T. Springer's farm, at Burlington, they are hardly in full bearing at thirteen years, on a sandy loam and under the most favorable climatic conditions. In the County of Simcoe, nearly forty-five degrees north, I have seen Spys that have been planted nearly twenty years and have never borne fruit yet. On the same kind of soil, ten miles north of Barrie, I have seen the finest specimens of Fameuse that I ever saw grow, and the trees breaking down with the weight of fruit. I think that soil, climate, altitude, contiguity to large bodies of water, and constitution of different varieties, largely determine whether fruit trees are fruitful or sterile. For instance, no one at all acquainted with the subject would ever think of planting a Baldwin in a climate where the thermometer sinks 25 deg. below zero; yet it is very frequently done in the County of Simcoe. Of course the trees die. Unfortunately, the farmers are often duped by interested, unscrupulous agents, who, in plain English, don't hesitate to lie.

You mention the Spitzenburg as one of the best; and so it is. Yet no tree is more capricious in its choice of soil to be able to produce the finest quality of fruit. In your book on Horticulture you say it is a poor grower. When I read it I was astonished. On my farm it was the most rapid grower in the orchard, so much so that although they were planted twelve yards apart, the branches were interwoven and produced the finest fruit. Take for instance the Roxbury Russet, which comes to the finest state of perfection on a sandy loam. On my farm, under the highest cultivation I could give it, it was a miserable failure.

Some fruit growers are quite mystified when some one or more of their Greenings that have been grafted on natural stocks come to bear, find them small and inferior both in size and quality, and wonder how it is, not knowing that some kinds are very much influenced by the natural stock. So much is the Greening affected by the parent stem, that if the natural fruit is very small you cannot by any amount of cultivation or trimming produce a large sized apple. Graft a Greening on a Fall Pippin stock and note the difference. The Rambo is influenced in the same way, but in a less degree.

What we want in Ontario is a well written essay on the subject of orchard culture, published in pamphlet form, so as to be within the reach of every one. First, on preparation and kinds of soil; secondly, locality, exposure north or south; shelter, how best secured, and in what way;

thirdly, the proper kinds to cultivate under the different climatic conditions, and also to specify the mode of culture on the many varieties of soil, and the kinds most suitable to each; fourthly, the absolute necessity of thoroughly fencing the orchard, and of allowing no animal inside of the gate larger than a hog, to graze; fifthly, and lastly, an orchard should be well drained, either under-drained or surface-drained. No grain of the cereal kind should be allowed at any time; and after coming into regular bearing, the rule should be invariable, to *be content with one crop*.

Now, my dear sir, you may think me impertinent in thus addressing you on a subject which I so very imperfectly understand, and what I do know was acquired under very disadvantageous circumstances. Having never seen you but once, two years ago, when I was sent to select an orchard for a gentleman in the county of Simcoe, I was very unfortunate at the time, having caught a severe cold, which made me so hoarse I could not converse with you on my old *hobby*. I need hardly say how disappointed I was when I could neither ask nor answer a question.

My reason for thus addressing you is to suggest that something should be done to awaken public interest in a matter of so much importance to the welfare of the horticultural department in Ontario, which under scientific culture would be second to none, at least in apple cultivation, not even leaving out the plums.

THOS. COUTES.

DOUGALL'S NEW SEEDLING LILACS.

BY JAMES DOUGALL, WINDSOR, ONT.

You kindly copied into the January number of the *CANADIAN HORTICULTURIST*, for 1879, an article of mine from the *New York Witness*, on "Raising new and fine fruits, &c., from seed," in which mention of these lilacs was made.

I now send you cut blooms of some of the best, which I have so far thought worthy of naming; but quite a number of others, out of several thousand seedlings—some of which have only bloomed this year for the first time—are nearly equally good.

I cannot add much to the above mentioned article, but as propagators of new varieties are apt to think too highly of their own, I wish you to be able to judge whether the descriptions given previously were too highly colored or not. You will, therefore, confer a favor by giving your opinion of the different varieties sent. Some of them were past their best, and others were taken from plants more or less stunted from being lately transplanted, so that the spikes of flowers were not as large or high-colored as if grown to perfection, or as they were in former years. "Queen Victoria" and "Princess Louise" were only half their usual size from this cause.

NOTE.—Owing to the pressure of engagements, we were not able to take special notes of each variety. The Double Purple attracted us by the

novelty of a double lilac. The flowers seemed to be compound—one issuing out of the other. In truth, all were beautiful and worthy of their royal names: Prince of Wales, Princess Alexandria, Albert the Good, Princess Beatrice, Princess Louise, Marquis of Lorne, and Queen Victoria. We hope these new lilacs will be very extensively planted for the adornment of our Canadian homes. Mr. Dougall deserves the thanks of every Canadian for his enterprising efforts to introduce Canadian grown varieties of such hardy, beautiful and popular ornamental shrubs, and we hope his labors will be appreciated.

THE BOTANICAL SOCIETY.

BY JAMES MACPHERSON.

I have noticed some sixteen names of ladies and gentlemen announced in your November number for 1879 as being interested in the formation of a Botanical Society. Since I have known anything of Canada I have often wondered how it happens that it is the only British possession of any importance which fails to figure botanically. I cannot to-day offer myself a better explanation than the supposition that the Americans have not led the way in any very striking manner. It is a fact that no complete flora of North America is extant to-day; the flora of the States can only be had in a fragmentary condition. The Americans are a "practical people," and do not concern themselves about abstract sciences very much. It may, however, be pointed out to Canadians that Australia, Cape Colony, India, New Zealand, Hong Kong, (Fejee even has a published flora,) have all established from one to five or six Botanical Gardens within their limits, and their Governments have arranged with the authorities at the Royal Gardens at Kew for the publication of their approximately complete floras. Why British North America alone is without a Botanical establishment it is hard to tell, or without a published flora more complete than Hooker's "*Boreale Americana*."

Now, I would suggest that the sixteen persons who are interested influence sixteen M. P.'s, and secure their action in the very next session of the Dominion Parliament towards establishing a Botanical Garden on the ground which the Government may acquire at Niagara Falls.

I had the honor to suggest this to His Excellency the Governor General some time ago, and understand my communication was referred to the Government, but of course no action can be expected unless some public interest is expressed in the matter.

It is unnecessary to urge the importance of such a garden to any of your readers at this or perhaps any time.

LATE FROSTS AND STRAWBERRIES.

We notice in the June number of the *Fruit Recorder* some notes made by Mr. Purdy with regard to the chances of different sorts of strawberries escaping injury from late spring frosts, which are of great value to persons wishing to grow strawberries in localities that are subject to them. The popular Wilson strawberry so generally grown for market is very liable to injury from this cause, so much so that Mr. Purdy states that with his present experience if confined to but one strawberry for family and marketing purposes he would plant the Wilson at his present place of residence, yet would not think of planting it at South Bend in Indiana.

With regard to the following notes it may be stated that when the blossoms are well protected by the foliage the danger of injury from late frosts is very much lessened, and that the letter following the name of the variety indicates the character of the flowers, H. standing for hermaphrodite or perfect blossoms, and P. for pistillate or imperfect blossoms, they being without well developed stamens.

The following are Mr. Purdy's notes, and they are well worthy of the attention of those who intend planting strawberries and wish to secure varieties the least liable to injury from late frosts.

CHARLES DOWNING, H.—Comes through winter strong and hardy. Fruit stalk short, leaf stalk long. Splendid show for fruit on both sandy and heavy strong soil; one-fourth the blossoms opened, three-fourths not yet opened—well protected by the foliage.

PROUTY, H.—Winters well, leaf stalk medium, fruit stalk short. Mass of fruit buds on plants growing on sand and clay loam, one-fourth blossomed out, three-fourths not opened yet—quite well protected by foliage.

WILSON, H.—Winters well; leaf stalk short, fruit stem long; immense show for fruit on all soils. Blossoms nearly all opened and ready for complete destruction should Jack Frost come, but if he will let them alone the crop will be very large.

TRIUMPH DE GAND, H.—Winters well. On a hard clay knoll fine show for fruit. Leaf and fruit stalks about the same on the average; one-third blossomed out, two-thirds unopened.

RUSSELL'S ADVANCE, H.—Winters splendid. Soil strong clay and light loam. Tall leaf and fruit stalk; one-half blossomed and one-half unopened. A wonderful show for fruit, and green fruits formed as large or larger than any sort on our grounds. We are so pleased with this sort that we are now, late as it is, setting out every plant we have to set.

WINDSOR CHIEF, P.—Hardy as a burr oak, and hence winters splendidly. On strong rich loam and poorish gravel showing a mass of fruit buds. Tall leaf stalk, short to medium fruit stems, and well protected by the mass of foliage; not more than one-fifth blossomed out. One of the safest.

CHAMPION, P.—On same plot, close to the last, similar as to leaf and fruit stalk; though fruit stems taller and more fully blossomed out.

CINDERELLA, H.—Winters splendidly. Tall leaf and fruit stalk; half blossomed out. We have no sort on our place that has a greater show for fruit, and that we are more pleased with, judging from present prospects, hence are making another large setting of them. We have it on sand, gravel and clay loam, and it is equally fine on all. Part of the blossoms are well protected by leaves.

DUCHESS, H.—Half hardy. Leaf and fruit stalk medium; great show for fruit; largest share blossomed.

JUCUNDA, H.—Half hardy. Short to medium leaf stalk, tall fruit stalk: one-third to one-half opened. Fair show for fruit on strong soil, light show on sandy soil.

KENTUCKY, H.—Winters splendidly. Tall leaf and fruit stalks—leaves, however, overtopping most of the fruit. Not over one-fourth blossomed out. Fine show for fruit on all soils.

BOYDAN'S 30, H.—Hardy. Medium to tall leaf and fruit stalks; leaves overtopping most of the fruit. One-third to one-half blossomed. Great show for fruit on all soils.

MONARCH OF WEST, H.—Hardy. Similar to last in fruit and leaf stalks, but not so fully blossomed out.

NUNAN, H.—Half hardy. Medium fruit and leaf stalk; largest share blossomed out; partly protected. Good show for fruit on strong and light soil.

PHILADELPHIA, P.—Hardy. Tall leaf and fruit stalks. Half protected by foliage; one-half blossomed out.

LENNING'S WHITE, H.—Hardy. Tall leaf stalk and short to medium fruit stalk; one-third blossomed out. Fine show for fruit on strong rich soil.

METCALF, H.—Hardy. Short to medium leaf stalk, medium to tall fruit stalk. Four-fifths blossomed out; enormous show for fruit, and that too, all early, but wo be to them if Jack Frost comes to make them a visit. Equally as good on all soils.

DOWNER'S PROLIFIC, H.—Hardy. Medium to tall leaf stalk and medium fruit stalk, but not so great show of blossoms as last, but larger proportion not yet blossomed out.

CRESCENT, P.—Hardy. Medium to tall leaf stalk, short to medium fruit stem. A perfect mass of fruit buds and stems on all soils, and not one-fourth blossomed out, and these well protected by foliage. One of the safe kinds against late spring frosts, and hence a sure crop for every year.

COL. CHENEY, P.—Hardy. Medium leaf stalk and short to medium fruit stem. Great show for fruit on all soils, and not one-fourth blossomed out. One of the safest against late spring frosts.

CONTINENTAL, H.—Half hardy. Short leaf and fruit stalks; one-fourth blossomed out. Fair to good show for fruit.

CUMBERLAND TRIUMPH, H.—Hardy. Rank, healthy foliage, medium leaf and fruit stalks; one-fourth blossomed out, and well protected by the rank growth of leaves. Great show for fruit on strong, new soil.

GREEN PROLIFIC, P.—Tall leaf stalk, medium to tall fruit stem. Well protected by the large, broad leaves; but one-fourth blossomed out. Prospect for large crops on all soils. One of the safest against Jack Frost.

CRYSTAL CITY, H.—Hardy. Tall leaf stalk and medium to tall fruit stem. Immense show for fruit on rich loam. Two-thirds to three-fourths blossomed and mostly protected by leaves. One of the safest early sorts.

FOREST ROSE, H.—Hardy. Short leaf stalk and tall stem; not well protected, but not over one-third blossomed out. Fine show for fruit on strong soil, but light show on light, poorish soil.

GLENDALE, H.—Hardy. Oh! here we have the safest of all from late frosts, and we don't wonder this variety has grown heavy crops in northern Ohio, when most others have failed, or nearly so. Medium to tall leaf stalk, short to medium fruit stem; dense foliage; literally covered with fruit buds and blossoms. Scarcely a blossom as yet out. Push aside the leaves and what a mass of fruit stems and buds just beginning to open. Wonderfully glad that we have so largely increased our plantations of this sort. From present appearances it's the safest sort on our place to plant against late frosts, hardiness, and as a late kind.

PIONEER, H.—Half hardy. Similar to Triumph de Gand as to leaf and fruit stems. On strong, rich soil, shows good prospect, but on gravelly sand poor prospect.

MINER'S GREAT PROLIFIC, H.—Hardy. Here too is a wonderful

show for fruit. Medium to tall leaf and fruit stalks; blossoms one-fourth to one-third out, and quite well protected from frost by leaves.

SHARPLESS, H.—Hardy. Medium to tall leaf stalk, and tall fruit stem; one-third to one-half blossomed, and well exposed to Jack Frost. Good show for fruit; but as we have dug plants out of the rows so clean, to sell, leaving only the original plant, of course it damages the fruiting, and hence we cannot fully judge as to their productiveness. The hills that are left have four to five strong fruit stalks well filled with blossoms and green fruit.

NICANOR, H.—Hardy. What we say of the Metcalf holds good with this sort.

CENTENNIAL, H.—Half hardy. Medium leaf stalk and short to medium fruit stem. Fine show for fruit; half blossomed; partly protected by leaves.

PRESIDENT LINCOLN, H.—Half hardy. Weak Plant. Short fruit stem, and medium leaf stem; half blossomed; partly protected.

CAPT. JACK, H.—Hardy. Almost identical in leaf and stalk to Wilson's. Immense show for fruit, and nothing to prevent Jack Frost making havoc. Two-thirds to three-fourths blossomed out.

DUNCAN, H.—Hardy. Similar to Wilson's, though a larger show of fruit buds protected by leaves. Best show for fruit on strong soil.

SHAKER, H.—Hardy. Fruit and leaf stalk medium to long. Fair show for fruit on gravelly soil; not one-fourth blossomed out.

GOLDEN DEFIANCE, P.—Half hardy. Medium leaf stalk, short fruit stem. Have it only on gravelly soil. Poor show for fruit.

REEVE'S LATE PROLIFIC, H.—Hardy. Medium leaf stalk, short fruit stem. One-third blossomed; well protected, and good show for fruit.

NEW DOMINION, H.—Half hardy. Medium fruit and leaf stalks. Grand show for fruit; one-half blossomed out.

BLACK DEFIANCE, H.—Hardy on gravelly soil. Medium leaf stalk, short to medium fruit stem. Good show for fruit; one-third blossomed out.

EARLY ADELIA, H.—Weak grower. Tall leaf stalk, medium to tall fruit stem. One-third to one-half blossomed out.

LAUREL LEAF, H.—Hardy. Tall leaf stalk, medium fruit stem. Fine show for fruit; half blossomed out. Partly protected.

As a rule, those kinds having taller leaf than fruit stem, and least blossomed out, are safest against late spring frosts. Those being largely blossomed out are earliest—though this rule does not hold good with every kind. We shall, in fruit season, give time of ripening of all, so that by comparing that article with this, full information on this fruit may be had.

Bear in mind too, that it is not always late frosts that kill green fruit and blossoms, but they are often blighted and blasted by long cold north-east winds, and of course those most exposed suffer the most.

FRUITS IN WYOMING COUNTY, STATE OF NEW YORK.

It is the custom of the Western New York Horticultural Society to appoint a committee on fruits in each county, and to expect from the Chairman of that committee a report at the winter meeting. The following report, prepared by Mr. Hugh T. Brooks, Chairman of the Wyoming County committee, is well worthy of careful perusal, and will afford much food for reflection. It will be found equally applicable to many counties in Ontario.

WYOMING COUNTY.

Wyoming County don't bother much with small fruits, probably because it is a large county. We have scarce anything under cultivation smaller than pumpkins, except apples. We had plums, but when the black knot and the curculio put in their claims, we gave them up quietly, rather than have a fuss about it.

We have here and there pear trees of native breed, set by our forefathers when the country was new; they are healthy, like the men who planted them, but not one farmer in five puts out any of the new sorts. In most of our families they are forbidden fruit.

Peaches, often very good ones, raised from the stone, are among the recollections of our childhood, but of late not one family in twenty makes an effort to grow them. They miss the virgin soil, the shelter of the woods, and we fear suffer from unnatural methods of propagation. Mr. Look, of Wyoming, mentioned in our last report, and who died since, grew them successfully, proving plainly that there are warm, dry, sheltered, elevated positions in the country where peaches would grow if the worms were killed and they were otherwise cared for; especially if some virgin soil was put about their roots.

An enterprising fellow-citizen some years ago heard of strawberries, and judged from reports (probably circulated by nurserymen) that they were good things to have; so the next time he went somewhere he brought home some vines. He put them in a rich place, tended them well the first year—folks generally do—they grew and blossomed finely, but not a single berry—not one! He didn't swear—Christians are not expected to—but he wanted to very bad. He said he expected to be cheated from the first; he was warned against tree peddlers and the like; he ought to have known better than to chase after new things; there was a time when farmers stuck to their own business, and he should do so for the future. Prof. Zenas Morse, of Hamilton Academy, learned in horticulture and all sciences, was induced to come among us, and explained that our friend's strawberries were the "Staminate" kind—a sort of bachelor brotherhood, which, left to themselves, never amount to anything anyway. Col. Cheney came to the rescue, invented a new kind, offered to tell everybody how to raise strawberries, raised them himself, claiming that as land was not scarce in Wyoming County, there was no good reason why we should go to

Rochester, as we had always done, for our berries, whenever our religious necessities called for a church festival. It was all of no use. Wyoming people ain't caught twice in the same trap; they now keep pretty much clear of the strawberry business. It is apparent, even to the most casual observer, that they can't be grown without much labor. That of itself should condemn them as a domestic institution. We are willing to work, and to work hard, but we want to work for something that will bring money—something that will buy more land.

It is agreed in our county that small fruits must take care of themselves. Blackberries and black raspberries conform to our arrangement. They set themselves out in the spare places, and do everything but pick themselves. If your society wants to do anything respectable they will get up a sort that will pick themselves. Our women pick them now, but we are sorry to say our modern women are not what their grandmothers were; they don't meet their responsibilities so cheerfully. Coming in about noon in a hot day in July with a few berries, they are apt to remark, and some times rather tartly, "It don't pay to ramble all over creation for a quart of berries, when they can be raised in the back of the garden in half the time." We get along pretty well with that, but when they make a wider circuit just in the rear of another foraging party, and come in tired and hungry with a dozen berries, we think it better to go out and hoe those beans immediately.

We all had currant bushes that took care of themselves and gave us plenty of rather small currants; but finally the worms ate them all up. Professor Morse told us to give the worms hellebore, but the skeptical folks said they didn't believe there was any such medicine, and the orthodox said they would not waste it on worms.

We have a small, sour, red cherry, good for cooking and preserves. We have it because a sprout came in with the pioneers, grew and multiplied in spite of us. On the principle of "the survival of the fittest," it ought to be the best cherry. It always survives, always sprouts, and makes a free nursery for the neighborhood. There are three objections to it: First, it is not fit to eat; second, it will not carry itself around and set itself out as well as raspberries and Canada thistles do; third, instead of growing like a currant bush it grows higher than women can reach; and since, from the force of circumstances, they are bad at climbing trees, we are obliged to furnish a boy to pick the cherries. As it is all the kind we have, we wish to speak well of it.

Our villages furnish exceptions to these statements. Clergymen don't abjure the good things of this life as much as their sermons lead us to suppose. As for lawyers and loafers, they take all they can get. Only the farmers and day laborers, who rise at four o'clock in the morning, finish their chores at nine o'clock at night, and go to bed worrying about the next day's business, confine themselves to bread and butter, pork and potatoes, with apple sauce and mince pies on Sunday, and a dessert of sour cherries once a year.

Continued in August No.

MIDSUMMER AND AUTUMN FLOWERING SHRUBS AND PLANTS FOR THE DECORATION OF GARDENS.

BY WILLIAM C. BARRY.

Many, if not the majority of gardens, which in the spring and early summer charm the eye and gladden the heart with a profusion of flowers become all at once, as autumn approaches, almost destitute of bloom. This is not surprising, when we consider that the greater number of shrubs and plants flower in May and June, and that the late flowering species and varieties are not, comparatively speaking, numerous nor sufficiently well known to be duly appreciated or properly employed. Some persons are accustomed to regard this annual change as a natural consequence, and make no attempt to extend the flowering season; while others more observant having noticed that there are gardens which, even during the summer months, exhibit a wealth of flowers, are prompted to inquire, and questions are often put to us in this way :

What can I plant to render my garden beautiful and attractive in autumn?

It is gratifying to note that during the past few years considerable interest has been manifested in this subject, and in response to many inquiries I have prepared a brief list of choice fall flowering shrubs and plants, which, if judiciously used, will render the surroundings of our houses exceedingly attractive during the autumn months.

I would direct attention first to the

ALTHÆA OR HIBISCUS SYRIACUS,

commonly called the Rose of Sharon, a most remarkable and valuable shrub, which, as it were, holds its blooms in reserve until there is a notable scarcity of flowers. Whether in the mixed border among other shrubs or isolated upon the lawn, the Althæa when in flower produces a charming effect, relieving the monotonous aspect which prevails in most gardens at this season, and enlivening the landscape with its bright flowers. It must be admitted that the blooms of this shrub lack delicacy of texture, brilliancy and purity of color, but when there is a dearth of flowers we must not be too critical. Seen from the bush, its coarseness cannot be detected, and that which to some eyes appears to be a defect or blemish, serves on the contrary only to enhance its value for out of door decoration. We must recollect that coarse flowers have their offices to fulfill as well as the delicate ones. Besides considerable progress has been made in improving the Althæa, and amateurs will be pleased to learn that the new varieties are quite in advance of the older sorts. Among recent introductions *Boule de Feu*, which produces large double flowers of a violet red color, can justly command admiration. *Duc de Brabant* with very full flowers of reddish lilac color may also be regarded as an acquisition, while *Leopoldii flore pleno* with large, double flesh-colored blooms, together with *Totus albus*, having single snowy white flowers, are, I think, all destined to become favorites as soon as known. A few of the older varieties, like the *Double*

Variigated or *Painted Lady*, *Pæniiflora*, and the *Double Red*, cannot yet be dispensed with. They flower from the first of August till the first of October. In this latitude an objection is sometimes raised to the *Althæa*, because it is said to winter-kill in severe seasons. This occurs, however, only with young plants or with specimens recently transplanted, which are not yet fully established. Young plants should be protected with straw or evergreen boughs the first and second winter after being set out, and as soon as they are well rooted they become perfectly hardy.

Another real treasure which all plant lovers esteem highly, on account of its many good qualities, is the

HYDRANGEA PANICULATA GRANDIFLORA, OR PLUMED HYDRANGEA.

Planted singly or assembled in groups or masses, it becomes in August and September, when in full bloom, a real curiosity to many, while to others fully impressed with its magnificence, it is a noble object deserving the highest praise it is possible to bestow on any hardy plant. A circular bed of this shrub occupying a prominent position on our lawn has been the object of so much attention every year that I furnished a brief description of it for the *London Garden*. The plants composing the bed were in full flower on my return from Europe two years ago, and I wrote the editor, Mr. Robinson, that notwithstanding the many remarkable and effective beds of flowering and fine foliage plants which I had seen abroad, I thought nothing equalled this. "The mass consists of thirty-five plants, with a broad edging of the *Coleus* 'Shah' around it. The contrast between the green grass, the crimson and yellow foliage of the *Coleus*, and the immense white and pink panicles of the *Hydrangea* was novel and beautiful. I have often seen and admired large single specimens of this *Hydrangea*, but masses like this are uncommon, and I call attention to this manner of planting, as it tends greatly to heighten the effect and increase the attractiveness of this noble shrub." A few hints relative to its culture and management may not be amiss. Being a robust, rank grower, and a very free bloomer, it requires to be well fed. The more food the larger will be the panicles, the greater their number, and the longer they will remain in perfection. I think that I do not exaggerate when I say that most cultivators actually starve this plant, and this fact explains why fine specimens are not oftener seen. A top dressing of the very best manure should be given the plants every fall, and in spring as early as possible it should be incorporated with the earth by means of the spading fork. During the dry summer weather, when the earth around the plants is apt to become hard, it should be loosened and made mellow. If drouth should prevail at the flowering period, which is generally the case, then apply water liberally every evening. Another important operation connected with its management is the pruning of the plant every spring. This should be performed early, say in March, before the sap begins to move, and the stem should be cut back within two or three buds of the old wood. These will then push forth vigorously at the growing season, and every shoot will produce a panicle of flowers. If these directions are observed the result will be surprising.

Next in importance are the

TALL PHLOX, OR PHLOX DECUSSATA.

These, when properly grown, are unquestionably the finest of autumn flowers, and in the hands of a tasteful cultivator can be made to furnish very satisfactory results in garden ornamentation. Latterly, for some unknown reason, they have not been so popular as they formerly were. On the continent of Europe they are at present held in the highest estimation, and new varieties are being constantly raised from seed, many of which I am pleased to say show great progress. The Phlox has many qualities which commend it for the garden. It is of vigorous habit, easy culture, and produces in great profusion, during a long season, flowers of fine form and substance and of bright and varied colors. Just as the Roses are fading, the Phlox puts forth her first flowers, producing a fine succession of bloom, and prolonging an interesting season at least six weeks.

As regards their culture, it may be briefly stated that they succeed in any good garden soil, but they are greatly improved by being liberally manured, and an occasional supply of liquid manure during the growing season will greatly increase the size of their trusses. When in flower they should be watered freely every evening. The Phlox usually flowers in July and August, and in order to render it autumnal flowering it is necessary to pinch the shoots about the first of June, and again in July; the plants will then flower in September. For early flowers some of the plants may be left unpinched. When two years old the finest trusses are produced. The third year the plants flower tolerably well, but they will not keep healthy and thrifty after that. The old plants should then be lifted in the fall, divided and transplanted. But the better plan is to keep up a succession of young plants from cuttings by securing a fresh collection every spring.

THE JAPAN ANEMONE,

admitted everywhere to be one of the finest hardy perennials, stands in the foremost rank among plants for autumn decoration. The species called Japonica grows about three feet high, and bears on long footstalks very pretty purple flowers measuring two inches across. A fine variety of the Japonica named *Honorine Jobert* resembles it in habit, but has snowy white flowers. These, when planted together as companions, produce a fine effect by their contrast. The plant is of such neat, compact habit, demands so little care, is so hardy and beautiful, and bears such an abundance of flowers, that it is sure to become quite popular wherever known. On large lawns a grand circular bed may be formed by planting the center with the white variety, followed with a broad ring of purple around it, then another circle of that fine fall flowering Sedum—spectabile. It is difficult to describe the beauty of beds of this character. They must be seen in all their glory of an autumn day to be fully appreciated. How much more sensible to spend time and money on permanent beds like these, rather than to devote so much to soft-wooded bedding plants which are of such short duration. With the great variety of hardy bedding plants at our disposal, pleasing combinations may be multiplied at will, and beds once well made will be constant objects of pleasure.—*To be continued.*

SPECIAL NOTICE TO THE DIRECTORS.

The Directors are requested to attend a Special Meeting of the Board, at the

TOWN HALL, GUELPH,

On Tuesday, the Sixth day of July, 1880,
at 12 o'clock, noon.

Your obedient servant,

D. W. BEADLE, Secretary.

SAMPLES OF FRUITS.

Members are requested to bring to the Meeting any samples of fruits ripe or approaching maturity at that time.

D. W. BEADLE, Sec'y.

THE CANADIAN HORTICULTURIST.

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The Ontario Agricultural Commission.

The attention of the members of the Fruit Growers' Association is called to the series of questions upon matters relating to fruit growing which have been sent to many of them by the Ontario Agricultural Commission, and they are most earnestly requested to do all in their power to secure full and accurate answers. It is a matter of great importance that the Government should be supplied with this information.

D. W. BEADLE,

Secretary.

THE CANADIAN HORTICULTURIST

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