VALUE OF STREET TREES AND THEIR CARE

By Charles M. Loring, Park Commissioner of Minneapolis.

Walter Crane, who has done so ficant depth of 1.31 inches.' much to improve London, says: "The At a meeting of the New much to improve London, says: "The great want in modern cities is trees. ical society a resolution was passed I should plant them wherever possible along the streets. Frequent open places should be arranged with founplaces should be arranged with roun-tains and seats, and these again sur-rounded with trees." This want still death rate among children, is the culexists in most of our cities notwith-standing the great interest which has developed within the last decade for

plant trees on any street and to assess the cost abutting property, and it should be encouraged to vigorously push this branch of its work, and furnish means for paying for the care and maintenance of all trees on public maintenance of all trees on public stem protected. A guard made of two-

among the greatest attractions of any city or village, but they are much more than that, they are conducive to the beatth and confirm of the library of the more than that, they are conducive to the health and comfort of the inhab-fill with plenty of rich loam. Mulch itants. It is well known that the leaves absorb poisonous gases, and possess the power of cooling the air

amount to the by no means insigni- dead trees to replace.

cause here it must be made to assist knife.
the architectural effect of the parallel The

STREET PLANTING

By F. Nussbaumer, Superintendent of Parks, St. Paul, Minn.

To obtain the best results in street enced persons, as is done in some cities

planting, the first necessity is, a careful selection of the most promising individuals of such kinds of trees as

dividuals of such kinds of trees as have proved their ability to endure the hardship and uncongenial surroundings which they are subject to. Such trees are carefully grown nursery trees. They should be of the best form and habit, and be planted in the most approved manner in the best soil.

When the frontage owner is compelled to pay for trees absolutely worthless and while he is waiting for the trees are carefully grown nursery trees. They should be of the best form and habit, and be planted in the dismay of the owner of frontage.

The pruning and trimming of street.

tivation of an adequate number of trees on the streets." developed within the last decade for civic improvement and embellishment. There is hardly a city or town in the county, of any note, that does not have its improvement association, and yet there are but few that have a regular system for tree planting on the public street or for the care of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted. A few in New Instance of the trees already planted not provided the second trees are many elements. One great mistake the amateur tree planters made is in setting trees too near together. All over this and other cities, the deplorable effect of this can be seen. Practical experience that the second trees are planters made is in setting trees too near together. All over this and other cities, the deplorable effect of this can be seen. Practical experience that the second trees are planters made is in setting trees too near together. All over this and other cities, the deplorable effect of this can be seen. Practical experience the planters made is in setting trees too near together. All over this and other cities, the deplorable effect of the care of the country of the second trees are planters made is in setting trees too near together. All over this and other cities, the deplorable effect of the care of the country of th One great mistake the amateur England, notably Springfield, Mass., appropriate large sums each year for the care of the trees, which are placed of over 100 feet, and yet, every seature who has in the care of a forester, who has absolute control of planting, trimming from ten to twenty feet apart. This

have been sadly neglected, and are growing misshapen, thru the lack of of all trees, the Huckberry, next the pear on that occasion and speak to the funds to give them proper care and attention, and there are yet miles of streets on which there is no regular from the rays of the sun, and should planting.

The park board has authority to years after planting. It will then form a close head and withstand the winds as well as an elm.

stem protected. A guard made of two-No one will dispute that trees are inch strips of board is the best pro-

thru the co-operation of moisture.

A well known writer says:

"The exhaling power of leaves has been most carefully investigated, and observations have shown the exhalation of a single leaf during one season to mount to the ky more singlest and the street of the tree. Give your trees as much care as you would a hill of corn and you will have no sprinkle, but give the roots a thoro soaking, cultivate around every spring

the result of their work is that we have many native plums to-day that are worthy of cultivation. The above article does not state all that relates to the plum question. Some of the drawbacks to plum culture are bar-riers, curculio, plum gouger, apis or leaf louse, plum packet, plum rot and spur blight. To explain how and when to combat all of these at this writing would extend this article to unreasonable length.

ADDRESS BY PRESIDENT CYRUS NORTHROP AT A BANQUET GIVEN BY THE HORTICUL-TURAL SOCIETY OF MINNE-SOTA, DEC. 3, 1903.

Mr. Toastmaster, Ladies and Gentlemen—I have in the course of my life had occasion to address a great many assemblies of different kinds, and the course of and they come to me always with a certain degree of difficulty in meeting the requirements of the occasion. I think I never pondered over a coming engagement with more apprehension and removal. Such an officer is much needed in Minneapolis, which, thru the influence of its park board, is fast becoming one of the best planted cities in the country. But the 12,000 trees which the board has planted the results of the country. But the 12,000 trees which the board has planted a city or village. I would recompany been sadly neglected, and are mend, next to the elm, that hardiest them an address and consented to any convention, but I had no idea that that convention would ever meet in Minneapolis, or if it did that I should be here at the time; but, unfortunately, I remained in the city all summer and I went to that convention, and I had a good time, but what I suffered in anticipation can be imagined only by gentlemen who are called upon to ad-dress assemblies without an opportunity for adequate preparation.

I am too young a man to have had

any remembrance of those reminiscences given here to-night. I was in the state probably about the time that Brother Harrison was serving as an advance guard, so to speak, of the advancing army of civilization, and my only regret is that he did not stay in Minnesota instead of going to Nebraska and trying to sweeten up that state. If he had stayed here I have no doubt the cause of horticulture would have been advanced more than it has. I remember the first years I was here, how comparatively weak he horticultural society was, and how I admired the fidelity of the few men who were putting their hearts into it; Wyman Elliot for one, and J. S. Harris, sweet-natured, earnest, faithful fel-ow, and as I look back over the years that have followed since my first ex-perience and as I look around upon you to-night as representatives of this work, and as I see what you are ac-complishing in the production of apples in this state, I am moved to say that I heartly agree with the sentiment expressed in the evening paper, that no body of men in Minnesota, of the same number of men, is doing as much for themselves and for the state of Minnesota as this body of horticulturists; and it is to me particularly delightful the enthusiasm which as inform and habit, and be planted in the most approved manner in the best soil procurable and after planting they should receive unstinted intelligent care, so as to assist a healthy good growth. Health and vigor are the beauties of a tree. Shade trees on city streets should be planted not less than forty feet apart, and on a continuous street they should be of the same size and variety, so as to give unity of cause premature death to the trees. dividuals you have, as well as the community of interest you feel in the progress of your work. When a man plows an infinite number of acres, sows an infinite amount of seed and reaps an infinite harvest, and goes to the bank ultimately and deposits his cash, it is entirely a commercial and business operation; but when a man incus street they should be of the same size and variety, so as to give unity of character and consistency of purpose as a whole. Frontage owners should not be permitted to select and plant their own trees on the street, as the effect produced is bad and grows worse as the individual habit of the trees develops, and intensifies the incongruity of the mixed planting. City street planting must be formal, as straight lines suggest uniformity. It is unlike laboriously studies the laws of life.

lines suggest uniformity. It is unlike being gnawed by ill-bred horses, but to parental love. Now you are doing the state of growth seen along country roads, be protected from the boy's whittling Minnesota a wonderful amount of cause here it must be made to assist the architectural effect of the parallel lines of buildings which can only be secured by uniformity in planting. An avenue planted with American elms, with their lofty over-arching tops, is beautiful, seen as a whole, because the charm of each tree is multiplied by constant repetition, while a mixed planting on a street line has an appearance of contradiction and incongruity.

To prevent disappointment or possible failure in tree planting, the ground which is to be the home of the tree should be properly represent the planting of shade trees; our from lawn gardening should not extend beyond the sidewalk line, but what really should be properly represent the planting of the back-yard and screening off of outbuildings.

Knife.

The planting of shrubbery and flowers on street lawns cannot be popularized for the reason that very few plants will do well in shaded situations, or under trees; and on account of the depredation to which they are subject to by dogs and boys along our public thorofares. Therefore, besides the planting of shade trees, our from lawn gardening should not extend beyond the sidewalk line, but what really should be encouraged is the planting of the back-yard and screening off of outbuildings.

To prevent disappointment or possible for it to produce what years ago it seemed impossible for it to produce. You are giving a value to this state to produce and the other by Mr. Harrison. The one presented very strongly the commercial value of your work in producing the other by Mr. Harrison. The one presented very strongly the commercial value of your work in producing the other by Mr. Harrison. The one presented very strongly the one presented very strongly the commercial value of your work in producing the other by Mr. Harrison. The one presented very strongly the one producing the other by Mr. Harrison. Th good, and you are doing it in two gruity.

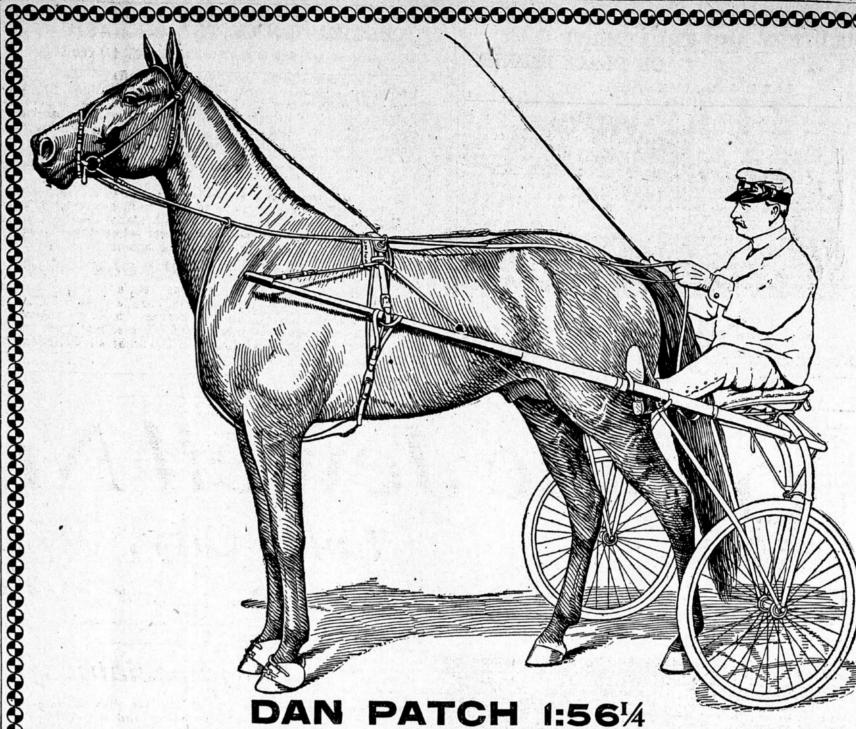
To prevent disappointment or possible failure in tree planting, the ground which is to be the home of the tree should be properly prepared, the excavation to be made for it should be liberally large, especially so where the grade of the street was cut down several feet below the natural surface, and the subsoil is not in a mechanical condition to furnish any nourishment to the roots, and if not supplied with plenty of good loam, they will linger out a sickly existence, or die outright.

Yond the sidewalk line, but what really should be encouraged is the planting of the back-yard and screening off of outbuildings.

The suburban house grounds should be treated differently. Here the planting should be done in the most informal manner and possible existing natural features or decorative creations, may to good advantage be extended so as to skirt the adjoining driveway or public highway.

The most successful suburban home in its enchanting effect, is created by seemed impossible for it to produce. You are giving a value to this state in dollars and cents that cannot now be measured; and the other part of what you are doing—the garden work, the interest in flowers, in the creation of beauty and in creating a taste for beauty, is to be by no means underestimated. If you men do not feel it as much as you might, there are those under your roofs who do feel it; there are the wives and daughters; not perhaps those of the more intelligent men of the state like your-selves, but those whom you are trying to raise and lift up to stand on the platform you stand on and have the interest you feel. There are in all of these houses women whose souls naturally feed upon beauty and who, unless they have beauty to feed upon, will grow dull and commonplace, and the man who loves flowers and the man who makes it possible for every-one in the state to have flowers, and the man who multiplies the varieties that all tastes in the state may be The first requisition for the planting of a plum orchard is a suitable ocation. This should be, if possible, a moist, rich ground, sloping to the orth or northeast. By utilizing said lope the trees suffer less from drougth han they would on level land or a couthern slope. And they are held couthern slope is a suitable to the same slope of the same slope in the state many of a noble work; and these old men who have grown gray in the service, and who have grown gray in the service, and they are held couthern slope. After the many of a noble work; and these old men who have grown gray in the service, and they are held couthern slope. After the many of a noble work; and these old men who have grown gray in the service, and they are held couthern slope. After the many of a noble work; and these old men who have grow century that they have so far cleared the way that the younger men com-ing on will be able to complete what they have intended to do; and if there is now any doubt whatever as to the possibilities of our climate; if anyone still fears that this climate is too cold for the permanent raising of apples, I would suggest that if our whistling friend, Mr. Ellis, could be

> I want to say that a selfish life is never a noble life, and I want to say that a life of unselfish service is never anything but a noble life, and that good of the state and of the people who shall live here in the years to



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SLEEPING TO DEATH

Curious African Sickness Has Already Killed 68,000 People. New York Sun.

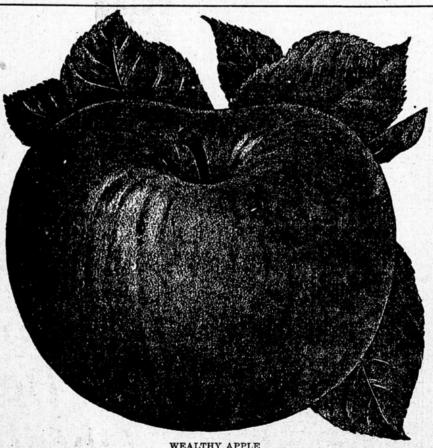
American Board of Commissioners of Foreign Missions has issued

of the strange epidemic known as the the Congo. No less than 68,000 per-

The first symptoms of the presence ment in the ravages of the disease in Uganda.

It appeared there between two and It appeared there between two appeared the between two appeared there between two appeared the between two appeared statement concerning the ravages three years ago, probably coming from prospect to see what can be done to course in from six weeks to two years.

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John Hawkins, Prop. Minneapolis, Minn.

THE POSSIBILITIES OF A PLUM ORCHARD IN MINNESOTA AND DAKOTA

plenty of good loam, they will linger out a sickly existence, or die outright. Trees of a variety unsuited for a locality or objectionable in any other respect should not be selected, nor should they be planted by inexperi-

By O. W. Moore, Spring Valley, Minn.

ing of a plum orchard is a suitable location. This should be, if possible, in moist, rich ground, sloping to the north or northeast. By utilizing said slope the trees suffer less from drougth than they would on level land or a southern slope. And they are held back a little later in starting in the spring and the buds and bloom are not as liable to be caught by spring frosts. But if you haven't the above location plant on any that you location, plant on any that you may

The age of the plum trees to plant is a question that planters differ wide-ly upon. The writer prefers one-yearold whips. The meaning of whips is out from time to time one year's growth from the graft, the ground as a fertilizer. graft not being allowed to branch but grown as a whip. After planting they should be cut back to about twenty inches or two feet from the ground. Side of the Canadian line, and perand when they start to grow keep all haps beyond. A word of cartific to the winter the public faith in the climate of Minnesota would be greatly strengthened, as all the people would naturally suppose that entire head or top the first summer, and his trees will be all uniform as to size. As to varieties to plant, it depends largely upon the end to be attained. If for market, the largest of our native improved sorts should be used. If for family or domestic use, size is not so essential. There are many good varieties to select from, grown thruout the state by many Minnesota

at their best. If deprived of sunshine and fresh air by close planting, they do not fertilize as well at blooming

inches or two feet from the ground. side of the northwest anywhere this and when they start to grow keep all buds rubbed off but four or five at the top, and the planter will get a nice head or top the first summer, and his purchasing plum trees, to be sure from some trustworthy source that your trees are grafted on native plum about the work of the Horticultural roots. Minnesota nurserymen are growing their plum trees by the above method at the present time. Should I want to say that a selfish life is there still be those that are grafting

There may be readers who are in-Plum trees should be planted not plum. But it their true name, and we

ever kind, allowing nothing to grow in the orchard but the trees and perhaps some low-growing hoed crop, and the ground should receive a good dressing of well rotted manure either in spring or fall of each year until the trees are well into bearing, after which time the land may be seeded to medium red clover and the clover cut from time to time and left on the

on tender roots, the writer is not aware of the fact. There may be readers who are in-clined to deride the name, native thing, not for themselves, but for the rearer than sixteen feet apart each way, and sixteen feet in the row, and the rows twenty feet apart is still better. Many readers no doubt will ask why so far apart. The answer is that plums need sunshine and a free circulation of fresh air in order to thrive at their best. If deprived of sunshine plum. But it their true name, and we cannot change it if we would. They who shall live here in the years to come; who, as they create a new species of fruit, are not thinking of the dollar coming into their pocket as the reward, but are thinking of the state and of the people who shall live here in the years to come; who, as they create a new species of fruit, are not thinking of the dollar coming into their pocket as the reward, but are thinking of the state and of the people who shall live here in the years to come; who, as they create a new species of fruit, are not thinking of the dollar coming into their pocket as the reward, but are thinking of the state and of the people who shall live here in the years to come; who, as they create a new species of fruit, are not thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward, but are thinking of the dollar coming into their pocket as the reward as the rewar about? It has been done largely by planting pits of the best and growing planting pits of the best and growing planting the planting the property of the prope planting pits of the best and growing them to fruiting age. Planting the pits of the best of these seedlings and growing them until they bore fruit, which was perhaps crossed, fertilized by some good varieties growing near by. Planting pits of the best of these as before, and so on. This work these as before, and so on. This work do not fertilize as well at blooming time and it is a well-known fact to most fruit growers that they cannot successfully grow any kind of fruit in the shade. And plum rot is pretty sure to attack a close-planted plum orchard.

The plat for the orchard should be as near square as practical, and plant as many as from four to six different warleties. By this method the differ-

Defective Page