HARDY SHRUBS.

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Six years ago an Arboretum was established at the Ontario Agricultural College for the purpose of testing trees and shrubs on the college grounds. Upwards of 400 species have been planted, so that we are now in a position to give some results of our work in this line of investigation. The space for a bulletin being limited, I shall in this refer only to the shrubs which have done well, and reserve for a future occasion remarks upon those which have failed, and our success in tree planting. At the present time, when the beautifying of country homes is commanding the attention of farmers, our results in shrub culture may be of interest. However, it must be remembered that some varieties, which have failed with us, may be grown successfully in some parts of Ontario where the climate is less severe. Whatever is remarked in this bulletin refers to results on the college grounds only.

1. CONDITIONS SURROUNDING THE SHRUBS.

Location: Latitude north 43° 38', height above sea level 1,100 feet, above Lake Ontario 858 feet.

Exposure: The lawn on which the shrubs are planted, slopes S.S.W., and is surrounded by a belt of evergreens, especially on the north side.

Soil: Clay loam.

Meteorological: Mean annual temperature 42.2°, 1880 1886; mean summer temperature 57 1°, winter 27 3°; highest temperature (1881) 98°, lowest (1884)—35°; average number of days rain fell per year 72. rainfall including snow 24.7 inches; prevailing winds, southwest 43 per cent., northwest 31 per cent.

2. MANAGEMENT.

The shrubs have been carefully planted in clumps, each containing several genera of the same family. In some cases they are cultivated around them for a distance of about two feet, in others the whole space between the shrubs is kept thoroughly worked and as free from weeds as possible.

On the approach of winter the tender varieties are protected by using coarse manure as a mulch above the roots, and covering the shrub with evergreen brush in the way best suited for protection. Any weeds which may appear from time to time between periods of cultivation after being hoed are left as a sort of mulch around the shrubs.

3. RESULTS.

The following have proved hardiest in our collection, and having withstood the comparatively severe climate of this locality, while many which have completely failed may be grown with success in most parts of Ontario.

Anacardiaceæ (Sumach Family).

Rhus (Sumach).—This genus is represented four species which seem hardy.

Berberidaceæ (Barberry F.)

Berberis (Barberry).—Both species, common and purple, have done well. The latter is a very handsome shrub, but the family has a bad reputation for being a source of the rust we find on wheat.

Caprifoliaceæ (Honeysuckle F.)

Lonicera (Honeysuckle)—Six species of this genus are hardy and flowering early, and are among the most attractive shrubs on the lawn

Niburnum (Snowball).—Seven spieces, hardy. In some the berries give the shrubs a beautiful appearance.

Weigela.—This genus is not quite so hardy as the preceding, but its beautiful bell-like flowers are well worth some extra care.

Sambucus (Elder)—Two species, do well.

Symphoricarpus (Snowberry),—More attractive for the beauty of its white berries than the small flower it bears,

Cornaceæ (Dogwood F.)

Cornus (Dogwood.)—Three hardy species thrive in this family. C. stolonifera is interesting on account of its reddish bark.

Leguminosæ (Bean F.)

Caragana (Pea-tree).—This genus of Russian shrubs is represented by several hardy forms which are dwarf-like in appearance, but seem to be doing well. This spring some bore beautiful golden flowers

Colutea (Bladder senna).—Attractive for its yellow flowers and peculiar bladder-like reddish pods.

Oleaceæ (Olive F.)

Syringa (Lilac).—Eight species, hardy

Forsythia (Golden Bell) and Ligustram (Privet).—Do well.

Chionanthus (White Fringe).—Has not been as thrifty with us as the preceeding but the shrub seems to have been injured by some other means than the climate.

Rosaceæ (Rose F.)

Spiraea.—This genus is represented by ten hardy varieties and are among the most beautiful shrubs we have. Some flowering in spring, S. chamaedrifolia, S. aurea; others in July, S. Billardi, S. callosa,

Pyrus Japonica (Japan quince).—Not so hardy as some of the preceeding.

Rosa.—In this genus the briers are thrifty.

Saxifragaceæ (Saxifrage F.)

Philadelphus (Mock Orange).—Six varieties in this genus are interesting for their hardiness and the beautiful white flowers with which some of them are covered in June.

Ribes (Flowering Currants).—Five varieties have done well, and in early spring, beautify the lawn with their golden and crimson flowers.

Hydrangea-paniculata (Shrub Hydrangea).—This beautiful shrub, flowering in August," blooms at a time when few are in flower. It is not quite so hardy as the other representatives of this family.

4. CONCLUSIONS FROM OUR EXPERIENCE.

1. Where shrubs are planted in clumps they grow better by having all the land between them cultivated.

2. Shrubs should be thoroughly cultivated around them for a distance of about three feet, so as to keep the soil clean and loose.

3. In the selection of shrubs, their hardiness should be considered, otherwise their purchase is money thrown away. It often happens in a climate like ours that the most expensive varieties are the most tender, and not likely to succeed.

4. Shrubs which withstand the climate of Guelph may be terme d very hardy and may be grown successfully in most of Ontario.

5. The following thirteen shrubs are the best adapted for ornamental purposes on account of their size, time of flowering and hardiness:

1. Purple leaved Barberry, 3 to 5 feet high, flowering May.
2. Golden Currant, 5 to 7 feet high, flowering May and June
3. Persian Lilac, 4 to 6 feet high, flowering May and June.
4. Tartarian Honeysuckle, 5 to 9 feet high, flowering May and June.
5. Snowball, 5 to 9 feet high, flowering May and June.
6. Germander leaved Spiraea, 3 to 5 feet high flowering May and June.
7. Rose-colored Weigela, 3 to 6 feet high, flowering June.
8. Mock Orange, 5 to 10 feet high, flowering June.
9. Golden-leaved Spiraea, 5 to 7 feet high, flowering June.
10. Snowberry, 3 to 5 feet high, flowering June.
11. Bladder Senna, 4 to 6 feet high, flowering June.
12. Ash-leaved Spiraea, 4 to 7 feet high, flowering July.
13. Pink Spiraea, 4 to 6 feet high, flowering July and August.

The jumping cranks who visit the Brooklyn Bridge will jump no more from that structure. This result is attained by connecting the wires of the bridge with a dynamo and charging them with electricity. When a person seizes the wire to climb up on the parapet he suddenly receive a mild shock, and he attempts to withdraw he finds himself held fast until released by the police. The only device yet to be added to this invention is a method by which the police station will be informed at once of the spot on the bridge to which the prisoner is attached.

WE SHOULD BLOT OUT DISEASE IN ITS EARLY STAGES.

The disease commences with a slight derangement of the stomach, but, if neglected, it in time involves the whole frame, embracing the kidneys, liver, pancreas, and in fact the entire glandular system; and the afflicted drags out a miserable existence until death itself gives relief from suffering. The disease is often mistaken for other complaints but if the reader will ask himself the following questions he will be able to determine whether he himself is one of the afflicted:—Have I distress, pain, or difficulty in breathing after eating? Is there a dull, heavy feeling, attended by a drowsiness? Have the eyes a yellow tinge? Does a thick mucous gather about the gums and teeth in mornings, accompanied by a disageeable taste? Is the tongue coated? Is there a pain in the sides and back? Is there a fullness about the right side as though the liver were enlarging? Is there costiveness? Is there vertigo or dizziness when rising suddenly from a horizontal position? Are the secretions of the kidneys highly colored, with a deposit after standing? Does the food ferment soon after eating, accompanied by flatulence or belching of gas from the stomach? Is their frequent palpitation of the heart? The various symptoms may not be present at one time, but they torment the sufferer in turn as the dreadful disease progresses. If the case be one of long standing, there will be a dry, hacking cough, attended after a time by expectoration. In very advanced stages the skin assumes a dirty brownish appearance, and the hands and feet are covered by a cold sticky respiration. As the liver and kidneys become more and more diseased, rheumatic pains appear, and the usual treatment proves entirely unavailing against the latter agonizing disorder. The origin of this malady is indigestion or dyspepsia, and a small quantity of the proper medicine will remove the disease if taken in its incipiency. It is most important that the disease should be promptly and properly treated in its first stages, when a little medicine will affect a cure, and even when it has obtained a strong hold the correct remedy should be persevered in until every vestige of the disease is eradicated, until the appetite has returned, and the digestive organs are restored to a healthy condition. The surest and most effectual remedy for this distressing complaint is "Seigel's Curative Syrup," a vegetable preparation sold by all chemists and medicine vendors throughout the world, and by the proprietors, A. J. White, London, Limited, E. C. This Syrup strikes at the very foundation of disease, and drives it, root and branch, out of the system. Ask your chemist for Seigel's Curative Syrup.

"East-street Mills, Cambridge-heath, "London, July 24th, 1882.

Sir,—It gives me great pleasure to be able to add my testimony in favor of your valuable Syrup as a curative agent. I had suffered for some length of time from a severe form of indigestion and the long train of distressing symptoms following that disease. I had tried all possible means to get relief, by seeking the best medical advice. I had swallowed sufficient of their stuff to float a man-of-war, so to speak, but all to no avail. A friend of mine, coming on the scene in the midst of my suffering, brought with him a bottle of your Seigel's Syrup; he as vised me to try it, stating he felt confident it would benefit me. Being weary of trying so many drugs, I condemned it before trial think-ing it could not possibly do me any good, but ultimately determined to take the syrup. After doing so for a short time it worked such a change in me that I continued taking it for nearly two months and then I felt thoroughly cured, for I have discontinued its use for five weeks, and feel in the best of health, and can partake any kind of food with ease and comfort. I am therefore thankful to you that, through the instrumentality of your valuable medicine, I am restored to the state of health, I now enjoy.—Yours truly,

W. S. Foster.

To Mr. A. J. White.

Those who are in the "Asthma Furnace" should lose no time in obtaining relief by the use of "The Roslnqwood Tar Mixture;" but do not use the medicine unless you will follow the directions "to the letter."

Poor Asthma sufferers, who are strangers to "tired Nature's sweet restorer balmy sleep," should make use of "The Roslnwood Tar Mixture." Quiet refreshing sleep will follow its use.

Waterloo House, Dundon Stile, Chiswick, Feb 17th, 1882.

Messrs White & Co., London.

Gentlemen,—It is with great pleasure that I add my testimony to the wonderful effects of Seigel's Syrup. For years I had been suffering from bilious attacks, which began with giddiness; then a mist would come before my eyes, so that I could not be able to recognise anyone or anything at the distance of a yard or two from my face. This would be followed by excessive trembling of my knees so that I could not stand without support; after which a severe headache would occur, lasting often two or three days. I have tried various remedies for these distressing symptoms, but until I tried Seigel's Syrup I had no relief. Since then I have had excellent health in every respect, and if ever I feel a headache coming on I take a dose of the Syrup, which arrests it. Hoping that this testimonial may be the means of inducing others (who suffer as I used to try the Syrup, as I feel they will receive speedy benefit and ultimately be cured. I beg to remain, yours faithfully.

A. H. Horton.

Seigel's Operating Pills prevent ill effects from excess in eating or drinking. A cool dose at bedtime renders a person fit for business in the morning. If you have asthma use The Roslnwood Tar Mixture.

Counterfeiters at Work.

Toronto Telegram.

Every now and then during the past two months counterfeit $10 bills of the Canadian Bank of Commerce have been making their appearance. So well were they executed that it is said the bank officials themselves were deceived and took them across the counter with the real notes. There is no doubt that the counterfeiters in this instance have had their efforts crowned with, to them, gratifying success, as the bank, to protect itself, has been compelled to engrave a new plate for the $10 bill issue, the counterfeit making it unsafe to continue the present one. The public, however, will have to be extremely wary to escape being bitten. So fine was the work that it was at first thought the counterfeit was a raised two bill, the figure "2" and word "two" being erased and the other figures and lettering carefully printed in. This, however, the bank denies, and claims the whole bill a cleverly executed counterfeit. The following is as nearly a description of the counterfeit as it is possible to give: It bears the check-letter "D," is dated May 1, 1871, and is signed by Wm. McMaster, president, and W. Cook, cashier. The picture in the center is not quite as finely engraved as in the genuine, the lion and horse being both somewhat defective. Another point in the bill is worthy of mention. At the time the genuine series were printed in 1871, the bank's capital was $4,000,000, and is so printed on the bill. In the counterfeit the figures are $6,000,000, the present capital of the Commerce. All through the colours are lighter than in the genuine bill, and the paper, though good, is slightly thinner.

The counterfeiters have also been employing their talent on making a $10 bill of the Merchants Bank of Canada. It is described as a first-class piece of work and liable to deceive even the bank cashier. In neither cases have any steps been taken so far as known to discover the counterfeiters, who from the excellence of their work must be more than skillful at their "profession." The very fact should cause strenuous efforts to be used in hunting them.

Prohibition in the Northwest.

Billings Gazette.

The prohibition law in force in the Northwest Territories, is proving a serious drawback to passenger travel on the Canadian Pacific. In that country it is not only a crime to sell liquor, but also to buy it, or to be found in possession of even a small flask without a permit, and permits are hard to get. All travelers through that country must either submit to having their baggage searched, or show a permit. The jealous officials are much more thorough in the search than customs ... are, and the smallest satchel must be ... ed out for their inspection. Passengers on the Canadian Pacific naturally consider this examination an outrage, and resolve to choose some other route for their future travels.

While the officials are subjecting the passengers on the Canadian Pacific to such indignities, the smugglers are gaily at work bringing whiskey across the line from Dakota and Montana. As the whisky has to go a long way, the dealers water it liberally, and then fortify it with tincture of capsicum and other searching drugs that soon turn the consumer into a raving maniac. Where the so-called whisky cannot be had, the bibulists console themselves with pain killer and red ink, which beverages have become very popular in some parts of the Northwest. Prohibition is a great thing, and is working wonders for the people north of the boundary line.

The September Century.

Liszt's last illness was announced after the September CENTURY had gone to press: it is due to accident, therefore, rather than to purpose, that the two full-page portraits of the musician, and the intimated account by his American pupil, Albert Morris Bagby, of "A Summer with Liszt in Weimar," should appear in THE CENTURY so soon after his death. Pictures of Liszt's home and of his two most promising pupils add to the interest of the article. American enterprise has an amusing and curious illustration in extraordinary papers on the balloon experiences of two venturesome citizens of Connecticut. Alfred E. Moore, the aeronaut of the party, describes in a humorous vein his sensations and mishaps in mid-air, under the title, 'A-waten' Ballooning." His companion, John G. Doughty, recounts 'The Balloon Experiences of a Timid Photographer.' The papers are illustrated with the fruits of the latter's art, curious photographs of the earth, and of cloud effects from altitudes of a mile and more, being here given in facsimile reproductions. So far as known these are the first photographs taken in America from a balloon. Kemble has also touched the experiences of these sky-adventures with his humorous pencil. Two illustrated articles of artistic and scientific interest are the late Minister of Persia, S. G. W. Benjamin's paper called, 'A Glance at the Arts of Persia,' and Mrs. Emily Nunn Whitman's account of 'The Zoological Station at Naples.' The charm of an essay and the instructive observations of a student of familiar nature are mingled in John Burroughs's 'Notes from the Prairie.' In the eighth part of 'The Minister's Charge,' Mr. Howells partly satisfies the great curiosity of his readers to see the way Lemuel Barker's love affairs are going. Frank R. Stockton develops a new situation and additional drollness out of 'The Casting Away of Mrs. Leeds and Mrs. Aleshine'; and Miss Kate Foote contributes an absorbing short story called 'A Pistol-shot.' In the War Series a fertile subject lending itself to rich illustration is introduced by General Alfred Pleasonton's 'Successes and Failures of Chancellorsville.' It was under General Pleasonton's orders that Major Keenan's famous charge was made, and under his direction that the artillery at Hazel Grove saved the key of Hooker's position when Howard's Eleventh Corps, assaulted from the rear by Stonewall Jackson, was hurled back upon the Union center. General Howard himself writes of 'Jackson's Attack upon the Eleventh Corps'; Colonel Huntington W. Jackson describes 'Sedgwick's Assault at Fredericksburg,' with the effort of relieving the pressure upon Hooker; and Samuel P. Bates, the Union Commander's literary executor, gives Hooker's version of the campaign in the article 'Chancellorsville Revised by Hooker.' In the 'Memoranda on the Civil War,' General R. E. Colston offers a new letter showing that Lee had divided Hooker's plans; General Thomas M. Anderson explains anecdotally why 'The Reserve at Antietam' was not hurled against Lee's exhausted lines; Captain Joel B. Erhard quotes from a war time letter by General William F. Smith as revealing General Grant's reasons for relieving the latter. Mr. Whittier replies to a statement of Colonel Henry Ker Douglas with respect to his poem on Barbara Frietchie. Editorials in "Topics of the Time" discuss 'Legislative Inefficiency,' 'Marriage, Divorce, and the Mormon Problem,' and a plea for the good of the many, 'The Forgotten Millions, against the rights of an individual. In the 'Open Letters,' Albert H. Walker writes of 'The Inefficiency of the Lower House of Congress'; the Rev. Dr. Charles F. Deems comments on the views of 'The Rev. Dr. Munger on 'Evolution and the Faith''; S. H. Church offers 'A Plan for Harmony between Labor and the Employing Interests,' etc Besides poems by Frank D. Sherman and Miss Minna Irving, 'Brie a Brac' contains a humorous drawing by Robert Blum, and a city sketch by Branker Matthews entitled 'The Bob-tail Car.' Other poems in this number are contributed by Mr. S. M. B. Piatt, Robert Underwood Johnson, Maurice Thompson, and Richard Watson Gilder.

NEWS ITEMS.

It is an ascertained fact that canned goods are not always conducive to good health. In some instances they have proved destructive to life. Cassell's Family Magazine warns purchasers to take particular notice of the tins. If these bulge out do not take them on any account, not even as gifts. The bulge shows that air has been left in the can at the time of sealing, and that decay of the contents may have set in.

The women and girls employed in a San Francisco cannery revolted recently against Chinese, who were put on the same work. The Chinese were bombarded with green fruit and tin cans, and retaliated by throwing other missiles at the enraged women. The gates of the factory were finally opened, and 150 demoralized and bruised Chinamen beat a hasty retreat. The women had gained their victory at the cost of numerous black eyes and bleeding noses.

HIGH LICENSE IN CHICAGO.—It is stated that high license in Chicago has increased the revenue of the city immensely. Four years ago the price of a license there was $51, and the saloons numbered 3,727. Now the license fee is $500 and the number of saloons has decreased by 100. Groggeries proprietors of saloons have grown more careful, and the City's revenue from licenses was $1,721,714 last year, as against $304,480 in 1882.

Three young men of St. Catharines arranged to spend Sunday last on the lake shore near the Sixteen-mile Creek, and on Saturday they brought three kegs of lager which they proposed taking with them. The kegs were left over night in the refrigerator of a local business man, and were duly taken out on the lake for Sunday. The beverage, however, entirely failed to give satisfaction, and a close examination revealed the fact that the most of the lager had disappeared during the night and the kegs were filled up with water.

A man named Roberts, for assaulting Miss Ella Graham, has been sentenced at Fredericton, N. B., to a year's imprisonment, and at the end of nine months to receive twelve stripes. The whip handle is to be twenty-four inches long, and half an inch thick. But should the goal authorities at the end of nine months certify that the prisoner's conduct has been good the Crown may remit the whipping. Roberts' wife died on Monday, it is said, from grief over her husband's position. She leaves a family of five young children.

Her Majesty Queen Victoria is anxious to sell the Villa Hohenlohe, her residence at Baden-Baden. The villa, which came to the Queen from her half sister, the late Princess Feodore Hohenlohe, has been enlarged and much improved by Her Majesty. The Empress of Austria inspected the place during her recent visit to Baden, as she contemplates buying a villa, and the German Empress took a look at it the other day, as she has no house at Baden and has to rent during her frequent visits the Villa Mesmer, near the Conversation House. But neither Empress elizabeth nor Augusta is willing to agree to the Queen's price, which is nearly twice as much as the property is generally thought to be worth.

In the Galt division court the other day a man was sued by the Picturesque Canada people. The judge ruled in favor of the publishers, giving them judgment with costs, holding that people who sign contracts must adhere to the written contract, no matter what verbal promises may be made by an agent. The Picturesque Canada people are entitled to much thanks. Not for their book; but for the lesson they have taught the Canadian people, and for having forever killed the subscription book business in this country. The person who subscribes for a book, whether it is delivered in one volume or forty, does a foolish thing. He pays at least double money for his book, and it is not likely to be according to sample. There are now, thanks to the Picturesque people, a good many people in Canada who will never do this foolish thing again.

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