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For Farm and Garden

Hardy Apples and Plums for the Canadian Northwest.

By F. W. Broderick, Prof. of Horticulture, Manitoba Agricultural College, Winnipeg

Fruit growing in Western Canada has been, in years past, a rather disappointing experience, due to the fact that attempts were made to grow varieties that lacked the necessary hardiness and vigor for western prairie conditions. In later years efforts have been directed toward securing varieties that possess greater inherent hardiness, or toward increasing the hardiness by grafting on hardy stock, or by cross-breeding hardy standards with promising crab stock.

This work has been done very largely by the Experimental Farms, assisted by a few horticultural enthusiasts. One of the first introductions of fruit-trees into the Northwest was made by Supt. S. A. Bedford, at the Brandon Experimental Farm, in 1899. At that time about 500 fruit trees, including apples, crab apples, plums and cherries were put under test. This initial planting included standard varieties as well as a number of hardy imported kinds. Many of them did not survive the first winter, and in a few years only the hardiest sorts were found to be alive. Since the first planting many other varieties of fruit have been introduced and experimented with, and much valuable information has been gained.

Coupled with the work of the Experimental Farms has been that of private investigators, among the more prominent of whom may be mentioned Mr. A. P. Stevenson, of Morden, Manitoba, and Mr. D. W. Buchanan, of Winnipeg. Mr. Stevenson did valuable pioneer work in introducing and testing, on his own grounds, various classes of both trees and small fruits. He found that the hardy Russian varieties, that had been grown under similar climatic conditions to our own, withstood our climatic conditions most successfully. Mr. Stevenson has been able to test a wide range of varieties and made careful observations of all the fruits that he has tested.

Mr. D. W. Buchanan did some valuable work with plums in collecting from various sources seeds of promising native stock. Those of greatest promise have been transferred to the grounds at the Manitoba Agricultural College, where we expect to be able to obtain stock for general distribution.

An important step in advance was made in 1887, when the late Dr. Wm. Saunders imported seed of the wild Siberian crab apple (*Pyrus baccata*) which was sown at the Central Experimental Farm, Ottawa. Young trees were grown there and sent out to the Western Experimental Farms. These seedlings, on account of their hardiness and resistance to winter injury, made excellent stock on which to graft the standard varieties.

An endeavor has also been made to utilize the inherent hardiness of this crab apple by crossing it with some of the harder standard sorts. In 1894, the late Dr. Saunders began crossing the *Pyrus baccata* with a number of named varieties, the object being to combine if possible the hardiness of the wild crab with the hardiness and better size of the standard varieties. In all the crosses the *Pyrus baccata* was used as the female parent.

In 1899 thirty-six of the cross-breeds produced fruit, of which five were considered sufficiently valuable for further propagation. Of the total hybrids some sixteen have been considered sufficiently valuable to be sent out for further test. Practically all of them retained the crab characteristic of

the long slender stem, thin, tender skin and crisp-breaking flesh. Some of these hybrids have proved harder than any of the standard apples or crab apples previously tried.

In 1904 a further step was taken by re-crossing some of these hybrids with larger standards, the object being, if possible, to increase the larger size and retain the crab hardiness. The trend of the apple improvement work in Canada is largely to increase the size and improve the quality of fruit while still retaining the hardiness and vigor of the original stock.

Plum growing in the Canadian Northwest, from the standpoint of hardiness at least, probably gives greater promise than the growing of apples, due to the fact that a hardy native species which may be utilized as foundation stock is found growing throughout many parts of the Canadian Northwest. The species referred to is the *Prunus nigra*, a hardy variety of *Prunus americana*. The tree or bush is of rather small size, of irregular habit of growth and with dark colored branches. The fruits are of moderate size, red or yellow in color, and somewhat astringent flavor. At present there are few improved varieties belonging to the *Prunus nigra* group. The Cheney and the Aitken are probably the best.

Taken From The Act To Regulate The Speed And Operation Of Vehicles On Highways, Chapter 42, 1917.

15. Every motor vehicle using gasoline or other fluid of a similar nature as a motive power, shall use what is called a "muffler", which shall not be discontinued or cut out while the machine is in operation within the thickly settled portion of any town, city or village, or when passing a horse or other animal which is being led or driven.

16. The front lights of every motor vehicle other than a motor cycle and the front light of a motor cycle shall be permanently dimmed so as to prevent any glare therefrom which might interfere with the convenient or safe use of the highway, and said light shall be sufficient to enable the operator to see any person, vehicle or substantial object upon the roadway for a distance of 100 feet and upon either side thereof for a distance of 10 feet.

29. No person shall drive a motor vehicle on a public highway recklessly or negligently or at a speed or in a manner which is dangerous to the public having regard to all circumstances of the case, including the nature, condition and use of the highway and the amount of traffic which actually is at the time or might reasonably be expected to be on the highway.

31. No person under the age of 16 years shall drive a motor vehicle upon a public highway.

36. (1) Every person driving or operating a motor vehicle upon a public highway shall, when approaching either a vehicle drawn by one or more horses or other animals, or a horse with a rider, operate, manage and control the motor vehicle in such a manner as to avoid frightening the animals, and as to insure the safety of the rider or driver.

(2) If, in such case, the animals appear frightened, the person in control of the vehicle shall reduce the speed thereof, and, upon being requested or signalled so to do, shall stop the vehicle, including the motor, and remain stationary so long as may be necessary to allow the rider or driver to pass, or until directed by him to proceed.

(3) Where it appears necessary, the occupants of the motor vehicle shall render assistance to such rider or driver.

37. In case of accident to a person or property on the highway due to the operation thereon of a motor or other vehicle, the person in charge of the vehicle shall return to the scene of the accident, and upon request give his name and address in writing to anyone who has sustained loss or injury, and, if his vehicle is a motor vehicle, the number of license, and shall render all possible aid and relief that the case may call for.

38. (1) Every person driving a motor or other vehicle or riding or driving an animal upon the highway shall, upon meeting another person so using such highway, seasonably turn to the right of the center of the highway so as to pass without interference; and, upon overtaking any other person so using the highway, shall so pass to the left, and the person overtaken shall as soon as practicable turn to the right so as to allow free passage on the left. A person operating a motor or other vehicle shall, at the intersection of highways keep to the right of the intersection of the centres of such highways when turning to the right and pass to the right of such intersection when turning to the left.

(2) Where a person operating a motor or other vehicle meets another vehicle at an intersection of highways the vehicle to the right shall have the right of way.

(3) Persons riding animals or driving vehicles shall keep to the right hand side of all public highways, and shall in no way inconvenience other passengers.

Compiling List of Proper Church Music

With a view to compiling a list of music, acceptable for use in every Catholic diocese in the United States and Canada, work has been begun by Rev. Leo P. Manzetti of Baltimore, one of the foremost authorities of Catholic church music in this country, and other priests and laymen forming the music committee of the Society of St. Gregory of America, an organization of Catholic organists and choir-masters and those interested in the advancement of sacred music in America. We learn that "Father Manzetti and his co-workers are making special efforts to select compositions without regard to any nationalistic influences or without reference to any previous list issued by dioceses or by private individuals."

"According to a recent blacklist, some of the more famous pieces which should be eliminated from the repertoire of the Catholic choir are the 'Bridal March from Lohengrin', which, according to the standard set, is not free from reminiscences of motifs adopted in the theatres; 'Regina Coeli' by Giorza, which is regarded as one of the worst examples of the ballet style; 'Jesu dei Vivi', by Verdi, a theatrical piece taken from the opera 'Attila'; Rossini's 'Stabat Mater', regarded as unchurchly and unliturgical; Luizzi's, Milliard's, Rosewig's and Bach-Gounod's 'Ave Maria'.

Many of the prominent compositions sung at the High Masses have been regarded as contrary to the Pope's decree, including all the Masses by Bordele, Battmann and Weigand, as well as all of the psalms sung at Vespers by Capocci, Haydn, Mozart, Brizzi, Cerruti, Lejeal, Moderati and Weigand.

... Father Manzetti says the reform movement in Catholic church music antagonizes widespread abuses of long standing; and a transformation will require instructions and training in the seminarian, in the child at school, in the choir-master and in the singers, whether of the choir-left or of the body of the church. Such a world-wide reform will require a generation."
Catholic Tribune.

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