which sugar has been added; three samples being excepted. These are Nos. 27975 and 27976 made by la Cie Vinicole, St. Joseph of St. Hyacinthe, and 31576, by E. Bourget of Montreal.

Only six (6) samples contain less than 0.5 per cent. of residual sugar; the great majority of the samples showing from about 8 to 15 per cent. of dextrose. It would appear that to produce a wine such as public taste demands, sugar in considerable quantity must be added to the grape juice.

As pointed out in Bulletin 38, the French law of 1889 defines wine as solely the product of the fermentation of fresh grape juice. Any additions to the juice must correspond to distinctive names in the product, which may be sold as "Sugar Wine," &c. We have no Canadian Standards in the matter of wines; but it way be well to note the definitions made legal in the United States in 1906.

1. Wine is the product made by the normal alcoholic fermentation of the juice of sound, ripe grapes, and the usual cellar treatment, and contains not less than seven (7) nor more than sixteen (16) per cent. of alcohol, by volume (12·30 to 28·00 per cent. proof spirit) and, in one hundred (100) cubic centimeters (20° C.), not more than onetenth (0·1) gram of sodium chloride nor more than two-tenths (0·2) gram of potassium sulphate; and for red wine not more than fourteen hundreds (0·14) gram, and for white wine not more than twelve hundredths (0.12) gram of volatile acids produced by fermentation and calculated as acetic acid. *Red wine* is wine containing the red colouring matter of the skins of grapes. *White wine* is wine made from white grapes or the expressed fresh juice of other grapes.

2. Dry wine is wine in which the fermentation of the sugars is practically complete and which contains, in one hundred cubic centimeters (20° C.), less than one (1) gram of sugars and for dry red wine not less than sixteen hundredths (0·16) gram of grape ash and not less than one and six-tenths (1·6) grams of sugar-free grape solids, and for dry white wine not less than thirteen hundredths (0·13) gram of grape ash and not less than one and four-tenths (1·4) grams of sugar-free grape solids.

2. Fortified dry wine is dry wine to which brandy has been added, but which conforms in all other particulars to the standard of dry wine.

4. Sweet wine is wine in which the alcoholic fermentation has been arrested, and which contains, in one hundred (100) cubic centimeters (20° C.), not less than one (1) gram of sugars, and for sweet red wine not less than sixteen hundreds (0.16) gram of grape ash, and for sweet white wine not less than thirteen hundreds (0.13) gram of grape ash.

5. Fortified succet wine is sweet wine to which wine spirits have been added. By act of Congress, "sweet wine" used for making fortified sweet wine and "wine spirits" used for such fortification are defined as follows (sec. 43, Act of October 1, 1890, 26 Stat., 567, as amended by section 68, Act of August 27, 1894, 28 Stat., 509, and further amended by Act of Congress approved June 7, 1906): "That the wine spirits mentioned in section 32 of this act is the product resulting from the distillation of fermented grape juice to which water may have been added prior to, during, or after fermentation and economical distillation thereof, and shall be held to include the products from grapes or their residues, commonly known as grape brandy; and the pure sweet wine, which may be fortified free of tax, as provided in said section, is fermented grape juice only, and shall contain no other substance whatever introduced before, at the time of, or after fermentation, except as herein expressly provided; and such sweet wine shall contain not less than four per centum of saccharine matter, which saccharine strength may be determined by testing with Balling's saccharometer or must scale, such sweet wine, after the evaporation of the spirits contained therein, and restoring the sample tested to original volume by addition of water : Provided, That the addition of pure boiled or condensed grape must or pure crystallized cane or beet sugar or pure anhydrous sugar to the pure grape juice aforesaid, or the fermented product of such grape juice aforesaid, or the fermented product of such grape juice prior to the fortification provided by this Act for the sole purpose of perfecting sweet wine according to commercial standard, or the

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