

**DEPARTMENT OF FOOD AND AGRICULTURE
PROPOSED REGULATIONS**

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California Code of Regulations
Title 3. Food and Agriculture
Division 3. Economics
Chapter 1. Fruit and Vegetable Standardization
Subchapter 4. Fresh Fruits, Nuts and Vegetables
Article 7. Apples

§ 1400.9.1. Apples, Granny Smith Maturity, Sampling and Testing Procedures.

~~(a) Granny Smith apples shall be considered mature when attaining a numerical value of 2.5 on the starch scale entitled "Granny Smith Apple Starch Scale," F. G. Mitchell and G. Mayer, Pomology Department, University of California, Davis, CA 95616, 7/88.~~

~~(b) The numerical value on the starch scale shall be determined by use of a standard iodine-potassium iodide (iodine) solution with a normality of 0.057. The iodine solution strength may be checked by use of a standard sodium thiosulfate solution with a normality of 0.057. Transfer 50 milliliters of thiosulfate solution to a flask and add to it 50 milliliters of iodine solution. The end point is reached when the combined solution turns blue.~~

~~(c) The numerical value specified in (a), above, shall be based on the mathematical average of 30 sample apples. Each apple shall be cut in half horizontally to a center line between the stem and blossom ends. The stemmed half shall be used for testing; however, when an error is made in the testing of such half, the matching blossom end half shall be tested and the results shall be included in any official test. In a shallow dish or pan, place an amount of iodine sufficient to completely submerge the cut surface of the apple half or halves to be tested. An apple half shall remain in the solution for approximately 30 seconds then transferred to a distilled water rinse for approximately 10 seconds. Approximately one minute after removal from the rinse, the extent of color development shall be determined and a numerical value assigned the apple half in accordance with the starch scale.~~

Note: Authority cited: Section 14, 407, 42681 and 42684, Food and Agricultural Code. Reference: Section 42941, Food and Agricultural Code.