



United States
Department of
Agriculture

Grain Inspection,
Packers and Stockyards
Administration

Stop 3630
1400 Independence Ave., SW
Washington, DC 20250-3630

May 2, 2005

Reference #205

TO: FGIS POLICY BULLETIN BOARD

FROM: John Giler, Acting Director /s/ *John Giler*
Field Management Division

SUBJECT: GAC 2100b and Test Weight Per Bushel

ORIGINATING OFFICE: Policies and Procedures Branch

1. PURPOSE

This memorandum provides instructions for deactivating the test weight per bushel function on the GAC 2100b model moisture instrument.

2. BACKGROUND

DICKEY-john moisture instruments, Models GAC 2100, GAC 2100a, and GAC 2100b are approved for official moisture determinations. They are not approved for official test weight per bushel analysis. However, the GAC 2100b instrument has been approved by the National Type Evaluation Program (NTEP) for the test weight per bushel function in commercial inspections.

The GAC 2100b instrument is programmed to operate on a larger sample size (approximately 630 grams) to determine both moisture and test weight. To accommodate the test weight per bushel function, the instrument has an extended hopper with a grain level sensor that determines whether an adequate sample size is in the hopper.

Since the test weight function is not “official” and can only be used in commercial inspections, the manufacturer has provided instructions for deactivating the sensor and turning off the test weight per bushel function of the instrument. When the sensor is deactivated the instrument will determine moisture on a “normal” size (approximately 350 grams for wheat) sample portion.

An elevator-owned GAC 2100b that is cross-utilized by official inspectors does not need to have the sensor disabled, but it may be done if the commercial test weight per bushel result is not needed. This should satisfy our needs and the commercial (Handbook 44) requirements.

3. PROCEDURES FOR DEACTIVATING THE SENSOR

To deactivate the sensor in the GAC 2100b instrument, perform the following steps.

1. Select the SETUP MENU on the instrument.
2. Select OUTPUT OPTIONS
3. Unseal the access port on the rear of the instrument and press the white button.
4. The arrow should be on the first option - DISPLAY & OUTPUT TEST
WEIGHT: YES.

If the arrow is not on the correct option use the up and down arrows on the keypad to make the selection.

5. Use the right/left arrows on the keypad to change from YES to NO.
6. Use the page up button to return to the main menu.

After instrument sensor is deactivated, the unit will operate on the basis of the “normal” size moisture portion and WILL NOT display a test weight result.

4. FILING INSTRUCTIONS

Retain a copy of this memo with the Moisture Handbook until the handbook is revised to include the procedures for deactivating the sensor.

Please forward a copy of this memo to the official agencies operating within your circuit.

5. QUESTIONS

Direct any questions concerning this policy to Bob Lijewski, Policies and Procedures Branch, at (202) 720-0224, or email at Robert.S.Lijewski@usda.gov