



**U.S. DEPARTMENT OF AGRICULTURE**  
**Agricultural Marketing Service**  
**Federal Grain Inspection Service**  
**UGMA Moisture Meter Test**

**SITE IDENTIFICATION**

Field Office	_____
Agency	_____
Location (SSP)	_____
Phone	_____
Fax	_____

- INITIAL
- RETEST
- N/A
- NEW
- REPAIR

**PART A. CALIBRATION CONSTANTS VERIFICATION**

CALIBRATION VERSION CURRENT? :      YES       Initials \_\_\_\_\_

METER MODEL : <span style="border: 1px solid black; display: inline-block; width: 150px; height: 20px;"></span>	METER S/N : <span style="border: 1px solid black; display: inline-block; width: 150px; height: 20px;"></span>
SCALE MODEL : <span style="border: 1px solid black; display: inline-block; width: 150px; height: 20px;"></span>	SCALE S/N : <span style="border: 1px solid black; display: inline-block; width: 150px; height: 20px;"></span>

\*Current FGIS-approved meters: DJ GAC2500-UGMA, DJ GAC2700-UGMA, and PERTEN AM5200-A.

**PART B. WEIGHING ACCURACY TEST**

	DROP 1	DROP 2	DROP 3	DROP 4	DROP 5
INSTRUMENT WEIGHT (0.1g)					
SCALE WEIGHT (0.1g)					
INSTRUMENT WT minus SCALE WT					

AVG OF DIFF: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>	RANGE OF DIFF: <span style="border: 1px solid black; display: inline-block; width: 60px; height: 20px;"></span>
WEIGHING ACCURACY TOLERANCE: ±0.5	RANGE TOLERANCE: 1.0

**PART C. GRAIN MOISTURE SAMPLE TEST**

SAMPLE TRN:	
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WEIGHT RECORDED ON SAMPLE BAG (0.1 g)		WEIGHT TOLERANCE ± 0.5
SCALE WEIGHT OF SAMPLE AND BAG (0.1 g)		

INSTRUMENT DATA	DROP 1	DROP 2	DROP 3	DROP 4	DROP 5	AVERAGE
DISPLAY MOISTURE (0.01%)						
TEST WEIGHT (0.1 lb/bu)						
SAMPLE TEMPERATURE (0.1°C)						
AVG MOISTURE	<b>RANGE OF MOISTURES</b>					
STANDARD AVG MOISTURE	<b>RANGE OF TEST WEIGHTS</b>				OPERATOR (FIELD):	
<b>DEVIATION</b>	<b>RANGE OF TEMPERATURE</b>				DATE TESTED:	
TOLERANCE	0.15					REVIEWER (HQ):
	<b>PASS</b>		<b>FAIL</b>		DATE REVIEWED:	
SCALE AVERAGE						
SCALE RANGE						
MOISTURE AVERAGE						MOISTURE RANGE TOLERANCE: 0.26
MOISTURE RANGE						NO TOLERANCE ON TEST WEIGHT
TEMPERATURE						TEMPERATURE LIMITS: 15-27C, 60-80F

RECOMMENDED ACTION:      APPROVED

COMMENTS:	
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**FORM APPROVED OMB NO. 0581-0309.** According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0309. The time required to complete the information collection is estimated to average 0.083 hours per response and 0.001 hours of record keeping, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, OIRM, AG Box 7630, Washington, D.C. 20250; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, D.C.

## Instructions for Completing Form FGIS-923, “UGMA Moisture Meter Test”

### *Identification Block.*

1. Fill in Field Office or Agency information.
2. Check the appropriate boxes for the status of check testing the meter.

### *Part A.*

1. Verify current official calibration version. Update all obsolete calibrations. Initial to indicate that  
***For current calibration versions refer FGIS Directive 9180.61.***
2. Enter meter model and serial number along with scale model and serial number.
3. Enter meter serial number.
4. Enter SCD1 and SCD2 values.

### *Part B.*

1. Enter the result of the first drop (meter value). Record the result to the nearest 0.1.
2. Enter the weight reading from the lab scale. Record to result to the nearest 0.1.
3. Enter the difference (meter minus scale weights), if not calculated automatically.
4. Repeat Item 1 through Item 4 for a total of five drops.
5. Enter the average difference (average of five differences of meter minus scale weights), if not calculated automatically.
6. Enter the range of differences (total spread of the differences of meter minus scale weights), if not calculated automatically.

### *Part C.*

1. Enter the TRN (sample ID) listed on the sample bag.
2. Enter the weight recorded on the sample bag to the nearest 0.1.
3. Remove the wheat sample bag from the outer polyethylene bag and weigh the sample bag on the lab scale.
4. Enter the weight reading from the lab scale to the nearest 0.1.
5. Enter the difference (bag minus scale weight) if not calculated automatically.
6. Enter the values for information displayed from the first drop on the meter. Moisture, Test Weight
7. Repeat step 6 for a total of six drops.
8. Enter the average (average of 5 drops), if not calculated automatically.
9. Enter the deviation (average moisture from 5 drops minus Standard avg moisture), if not calculated automatically.
10. Enter name of the field test meter operator.
11. Enter the date.
12. Check the box, if the meter is approved for use, or start the retest or repairing process.
13. Any additional comments necessary concerning the test or information about the meter.

all calibrations are correct.

th

culated automatically.  
t calculated automatically.

scale to the nearest 0.1.

t, Sample Temperature.

ed automatically.