



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 : <input style="width: 100%;" type="text"/>	METER S/N : <input style="width: 100%;" type="text"/>
SCALE MODEL : <input style="width: 100%;" type="text"/>	SCALE S/N : <input style="width: 100%;" type="text"/>

*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: <input style="width: 100%;" type="text"/>	RANGE OF DIFF: <input style="width: 100%;" type="text"/>
WEIGHING ACCURACY TOLERANCE: ±0.5	RANGE TOLERANCE: 1.0

PART C. GRAIN MOISTURE SAMPLE TEST

SAMPLE TRN: _____

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	RANGE OF MOISTURES																	
STANDARD AVG MOISTURE	RANGE OF TEST WEIGHTS				OPERATOR (FIELD):													
DEVIATION	RANGE OF TEMPERATURE				DATE TESTED:													
TOLERANCE	0.15	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PASS</td> <td style="width: 50%; text-align: center;">FAIL</td> </tr> <tr> <td>SCALE AVERAGE</td> <td></td> </tr> <tr> <td>SCALE RANGE</td> <td></td> </tr> <tr> <td>MOISTURE AVERAGE</td> <td></td> </tr> <tr> <td>MOISTURE RANGE</td> <td></td> </tr> <tr> <td>TEMPERATURE</td> <td></td> </tr> </table>			PASS	FAIL	SCALE AVERAGE		SCALE RANGE		MOISTURE AVERAGE		MOISTURE RANGE		TEMPERATURE		REVIEWER (HQ):	
PASS	FAIL																	
SCALE AVERAGE																		
SCALE RANGE																		
MOISTURE AVERAGE																		
MOISTURE RANGE																		
TEMPERATURE																		
						DATE REVIEWED:												
						MOISTURE RANGE TOLERANCE: 0.26												
						NO TOLERANCE ON TEST WEIGHT												
						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”

Indentification 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 cal
6. Enter the range of differences (total spread of the differences of meter minus scale weights), if no

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
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 Weigh
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 calculat
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.

it, Sample Temperature.

ed automatically.