

UNITED STATES DEPARTMENT OF AGRICULTURE
FEDERAL GRAIN INSPECTION SERVICE

TESTWEIGHT CHECKTEST

FORM APPROVED OMB. 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 is 0581-0309. The time required to complete this information collection is estimated to average 5 minutes per response, including the time for reviewing instructions, search existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

NOTE: TEST UNIT OPERATOR FILL IN SHADED AREAS ONLY

DATE MAILED	FIELD OFFICE	AGENCY	LOCATION
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SCALE / BEAM TEST

Before proceeding with test review Chapter 5 of the Equipment Handbook. Clean, level and balance the scale, filling apparatus, and kettle. Test weights must have a current Class E Report of Test.

Scale Brand / Model / Serial No. / Date of Test

Scale Test for Electronic or Mechanical Grain Scales: This scale was tested in accordance with Chapter 2 of the Equipment Handbook and found to be within tolerance.

☐ Yes

Beam Test: Complete test below. Tolerance is +/- 0.10 pound.

Load		Beam Reading	Error	Load		Beam Reading	Error	Load		Beam Reading	Error	Sensitivity @ 60 lb/bu		Beam Response OK?	
g	lb			g	lb			g	lb			g	lb	YES	NO
0	0			142	10			850	60			g	lb	YES	NO
71	5			425	30							850+1 g	60+1g		

GRAIN TEST

Before the Grain Test, check alignment of the funnel and kettle. Record results to 0.00 pound for mechanical or electronic scales. For beams, the 0.1 pound graduations should be estimated to ¼ graduations and recorded as 0.025, 0.050, 0.075, or 0.100 pounds. For each sample, strike the highest and lowest drops and average the remaining three results.

TEST UNIT Beam / Filler Brand & Serial No.				STANDARD UNIT Beam / Filler Brand & Serial No.				TEST SUMMARY				
Kettle Brand & Serial No.				Kettle Brand & Serial No.								
Drop	Sample 1	Sample 2	Sample 3	Drop	Sample 1	Sample 2	Sample 3		Sample 1	Sample 2	Sample 3	TOTAL
1				1				TEST UNIT	0.000	0.000	0.000	0.000
2				2				STD. UNIT	0.000	0.000	0.000	0.000
3				3				DIFFERENCE	0.000	0.000	0.000	0.000
4				4				Mean Deviation from Standard (Total Diff. ÷ 3)				
5				5				MDS Tolerance = 0.15 lb / bu				
AVERAGE				AVERAGE				OUT OF TOLERANCE				

Results By:	Date:	Results By:	Date:	Remarks
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VOLUME TEST

Scale Used in Test / Brand / Model / Serial No.	Kettle Brand & Serial No.	Results By: / Date of Test:
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GROSS	- TARE	=	NET WEIGHT (1,098.08 g at 68 °F)	OR	Filled kettle ± 1.0 g of Standard counter weight.	☐ YES
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NOTE: TEST UNIT OPERATOR FILL IN SHADED AREAS ONLY																			
DATE MAILED					FIELD OFFICE					AGENCY					LOCATION				
1					2					3					4				
SCALE / BEAM TEST																			
Before proceeding with test review Chapter 5 of the Equipment Handbook. Clean, level and balance the scale, fillion apparatus, and kettle. Test weights must have a current Class F Report of Test.																			
Scale Brand / Model / Serial No. / Date of Test										5a ☐ Y									
Scale Test for Electronic or Mechanical Grain Scales: This scale was tested in accordance with Chapter 2 of the Equipment Handbook and found to be within tolerance. Beam Test: Complete test below. Tolerance is +/- 0.10 pound.																			
Load		Beam		5b		Load		Beam		Error		Load		Beam		Sensitivity		Beam Response	
g	lb	Reading	Error			g	lb	Reading	Error			g	lb	Reading	Error	@ 60 lb/bu	g	lb	YES
0	0			142	10			850	60										
71	5			425	30											850+1 g	60+1g		
GRAIN TEST																			
Before the Grain Test, check alignment of the funnel and kettle. Record results to 0.00 pound for mechanical or electronic scales. For beams, the 0.1 pound graduations should be estimated to ¼ graduations and recorded as 0.025, 0.050, 0.075, or 0.100 pounds. For each sample, strike the highest and lowest drops and average the remaining three results.																			
TEST UNIT Beam / Filler Brand & Serial No.										STANDARD UNIT Beam / Filler Brand & Serial No.									
6a										6d									
Kettle Brand & Serial No.										Kettle Brand & Serial No.									
Drop	Sample 1	Sample 2	Sample 3	Drop	Sample 1	Sample 2	Sample 3			Sample 1	Sample 2	Sample 3	TOTAL						
1	6b			1				6e		TEST UNIT	6c	0.000	0.000	0.000					
2				2						STD. UNIT	0.000	0.000	0.000	0.000					
3				3						DIFFERENCE		0.000	0.000	0.000					
4				4						Mean Deviation from Standard (Total Diff. ÷ 3)									
5				5						MDS Tolerance = 0.15 lb / bu									
AVERAGE	6c			AVERAGE						OUT OF TOLERANCE									
Results By:										Date:		Results By:				Date:		Remarks	
																		7	
VOLUME TEST																			
Scale Used in Test / Brand / Model / Serial No.										Kettle Brand & Serial No.					Results By: / Date of Test:				
8a										8b					8c				
GROSS - TARE = NET WEIGHT (1,098.08 g at 68 °F)										8d					OR Filled kettle ± 1.0 g of Standard counter weight.				
															☐ YE				

Instructions for Completing FGIS-927,

1. Date the test samples and form FGIS-927 are mailed to the FGIS field office or agency, as applicable.
2. FGIS field office participating in the test.
3. Agency that performed the test, when applicable.
4. Location of the field office or agency that is being tested.
5. Complete either Scale Test or Beam Test.
 - a. Scale Test. Certify that the electronic (or mechanical, general-class scale) has been tested in accordance with appropriate instructions in Chapter 2.
 - b. Beam Test. Show the load in the kettle, the beam readings, and the error. Reading minus target weight. Do not fill in for electronic scales.
6. Grain Test.
 - a. Test unit's brand and serial number.
 - b. Test unit's results, shown as indicated (or to 0.00 pound) for electronic scales. For beams, the tenth pound graduations shall be broken down into 1/4 increments and read as 0.025, 0.050, 0.075, 0.100.
 - c. For each sample, examine the five readings and strike the highest and the lowest result and Average of readings, shown to 0.000 pound per bushel.
 - d. The summary "TOTAL" result for the Test Unit is the sum of the averages from Samples 1, 2 and 3.
 - e. Total Difference is divided by 3 to yield mean deviation from standard (MDS), shown to 0.01 lb/bu.
 - f. Mean deviation from standard tolerance is ± 0.15 lb/bu.
7. Remarks. Show date of last volume test, date that Class F weights were tested, etc.
8. Volume Test.
 - a. Record the brand, model and serial number of the scale or balance used to test the kettle volume.
 - b. Record the brand and serial number of the kettle.
 - c. Name of test operator and date.
 - d. For electronic balances, record the tare, gross, and net weight. For mechanical balances, check mark 'deviation from target value is ± 1.0 g.

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it equals error.

und per bushel

the remaining three

“YES” the

