

# Calculating and Displaying US Grade Scale Tickets

Last Modified on 02/25/2022 2:09 pm CST

## Overview

Grain warehouses licensed under the U. S. Warehouse Act are required to display the U.S. Grade on every Scale Ticket.

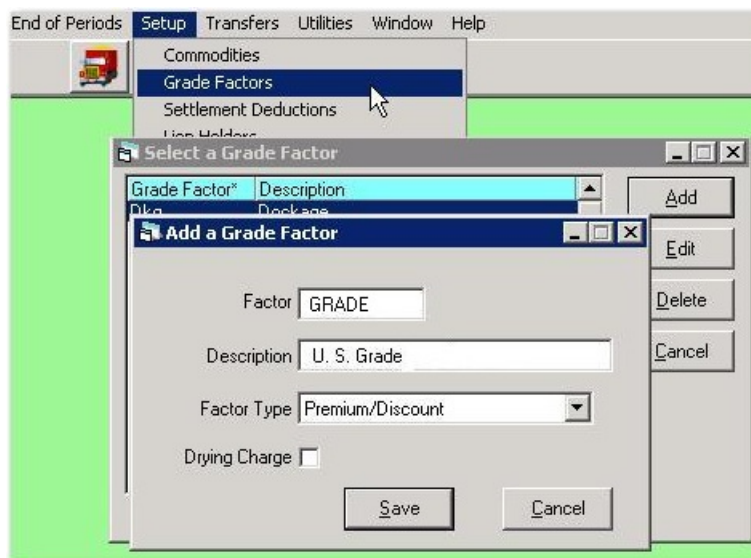
The following setup instructions set a Grade Factor that represents the U.S. Grade, a preference to specify which Grade Factor represents the U.S. Grade, and the criteria to determine the official Grade for each commodity.

Use the official U. S. Grain Standards when setting up the grading criteria found on the USDA website:

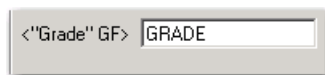
<https://www.ams.usda.gov/grades-standards/grain-standards>

## Setup

Go to *Grain / Setup / Grade Factors* and add a grade factor that represents U.S Grade.



Go to *Grain / Setup / Preferences / General tab / <"Grade"GF>* preference and select the Grade Factor established as representing the U.S. Grade.



Go to *Grain / Setup / Commodities* and for each commodity add the Grade Factor that represents the U.S. Grade and enter the Min/Max values of 1 and 9 respectively.

	<Grade Factor>	Min Value	Max Value	Allow Skip
3	DMG	0.000	99.000	<input checked="" type="checkbox"/>
4	FM	0.000	99.000	<input checked="" type="checkbox"/>
5	HD	0.000	99.000	<input checked="" type="checkbox"/>
6	MUSTY	0.000	1.000	<input checked="" type="checkbox"/>
7	SOUR	0.000	1.000	<input checked="" type="checkbox"/>
8	OTHER	0.000	1.000	<input checked="" type="checkbox"/>
9	GRADE	1.000	9.000	<input checked="" type="checkbox"/>

On the *Commodity Setup* window, click the **Grades** button and add each official grade that applies to that commodity. Name each Grade identically adding the last digit as 1 through 6 for grades existing for that commodity. Only end the grade with a number.

**Note:** Test Weight has a *Min Value* equal to the Grade Standard for that Commodity. *Max Value* is the same for all Grade levels. In the example below, US Grade 1- 5 has a Max Value of 65. For all other Grade Factors, enter 0 for a *Min Value* and the required *Max Value* for that Grade.

In addition, enter the:

- Description,
- Grade Factors that apply in the determination of the official grade,
- Minimum and Maximum values per the official U. S. Standards for that commodity (found at the USDA website),
- and check the box indicating that the grade factor is to be considered in the calculation of U. S. Grade.

Example of setup for U.S. No. 1 grade:

	Grade Factor	Minimum	Maximum	Check Grade Factor
1	TW	56.00	65.00	<input checked="" type="checkbox"/>
2	DMG	0.00	3.00	<input checked="" type="checkbox"/>
3	HD	0.00	0.10	<input checked="" type="checkbox"/>
4	FM	0.00	2.00	<input checked="" type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

**Note:** It is not necessary to setup a Grade for *U. S. Sample*. Any calculation not meeting requirements to be a No. Grade defaults to the *U. S. Sample Grade*.

## Procedures

On the *Add/Edit a Scale Ticket* window, after all results for the grade factors have been entered, click the **Calculate Grade** button to calculate the Grade. Clicking the **Calculate Shrink and Dockage** button also causes the Grade to be calculated.

	Test	Result	Prem/Disc	
1	Tw	55.000	0.0000	
2	MST	15.000	0.0000	
3	DMG	0.100	0.0000	
4	FM	0.100	0.0000	
5	HD			
6	MUSTY			
7	SOUR			
8	OTHER			
9	GRADE	2.000	0.0000	

Calculate Grade  
Calculate Shrink and Dockage

**Note:** The result displayed for U. S. Sample Grade will be the value of 9.

When importing inbound Scale Tickets from a Grain Scale Interface, grades will automatically calculate on the Scale Ticket following completion of the setup procedures even if each ticket imported is not validated before import.

## Reports

There are 2 Assembly Sheet reports to obtain the average of a Grade on all Scale Tickets. At *Grain / Grain Reports / Assembly Sheets / Assembly the OS Grade Summary* report displays the quantity of all Scale Tickets in the facility stored under Open Storage.

Assembly Open Storage Grade Summary Report							
Assembly #	U. S. Grade #1	U. S. Grade #2	U. S. Grade #3	U. S. Grade #4	U. S. Grade #5	U. S. Grade #6	Sample Grade
<b>Corn (CN)</b>							
1018							
112							
113							
124							
176		1,947.32	1,000.00				
179	1,000.00						
<b>Totals</b>	<b>1,000.00</b>	<b>1,947.32</b>	<b>1,000.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

At *Grain / Grain Reports / Assembly Sheets / Assembly Sheet the Scale Tickets Report* uses Form 1 or 2. With the option to *Print Assembly Overall Grade Factors* checked, an average of all tickets on the selected Assembly Sheet(s) display.

Overall Assembly Grade Factor Recap			
Damage	1.37	FM	0.87
TWT	54.50	Grade	2.00
		Moist	13.00

## Setting up Preprinted Warehouse Receipts

Agvance calculates the U. S. Grades for Warehouse Receipts by using the same *Grades* setup found at Commodity setup that is currently used to calculate U.S. Grade for Scale Tickets (this setup applies to all locations).

At Grain / Setup / Preferences / General tab, click on **Setup Preprinted WHR** to view and edit the options available to print on the federally approved Warehouse Receipt.

**Grain Preferences**

General Purchases Sales Posting

Scale Tickets: 30032, 01/17/2020

Settlements: 1018, 12/31/2019

Shipments: 1000, 03/06/2014

Ship Settlements: 1000, 03/06/2014

DPR /TPR: 26, 01/02/2020

Display the next report number and date last posted for each category listed

**Default List Box Filters**

Scale Tickets: 9999 Days

Settlements: 9999 Days

Shipments: 9999 Days

Commod Trans: Days

**Setup Preprinted WHR**

☒ Require reason for changes

☒ Separate Shrink from Dockage

Warehouse Receipt Grade Factor Setup

	Grade Factor	CN	CornSe	SB
1	Test Weight	TWT	(None)	TWT
2	Moisture	Moist	(None)	Moist
3	Heat Damage	Damage	(None)	(None)
4	Total Damage	Damage	(None)	Damage
5	Bean Splits	(None)	(None)	(None)
6	Foreign Material	FM	(None)	(None)
7	Other Factor 1	(None)	(None)	(None)

Code No.

Received By

Remarks

Charges

Signature

Font Save Cancel

**Grade Factor** – Select the grade factor for each commodity that matches the grade factors listed on the Warehouse Receipt printout.

**Remarks** – Enter remarks pertaining to the Warehouse Receipt.

**Charges** – Enter the claim of charges and liabilities.

**Signature** – Enter the name of the company's authorized Warehouse Receipt signer, if the printed name makes replacement for the signature.

