

Calculating and Displaying US Grade Scale Tickets

Last Modified on 06/17/2024 1:32 pm CDT

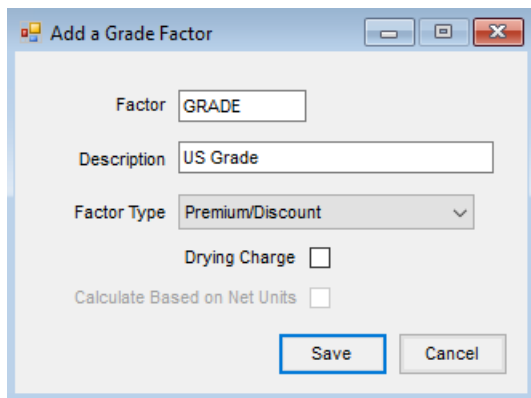
Grain warehouses licensed under the U. S. Warehouse Act are required to display the U.S. Grade on every Scale Ticket.

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](#).

Setup

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



The screenshot shows a dialog box titled "Add a Grade Factor". It contains the following fields and controls:

- Factor:** Text input field containing "GRADE".
- Description:** Text input field containing "US Grade".
- Factor Type:** Dropdown menu with "Premium/Discount" selected.
- Drying Charge:** Check box, currently unchecked.
- Calculate Based on Net Units:** Check box, currently unchecked.
- Buttons:** "Save" and "Cancel" buttons at the bottom.

2. On the *General* tab at *Grain / Setup / Preferences*, double-click in the <"Grade" GF> field and select the Grade Factor established as representing the U.S. Grade.

Grain Preferences

General Purchases Sales Posting Location Preferences

Scale Tickets 8 06/17/2024

Settlements / / /

Shipments / / /

Ship Settlements / / /

DPR /TPR 5 06/17/2024

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

Rollup Location Inventory to Open Storage on DPR (None)

Minutes before Settlement Print Window Unloads (0 = Off) 0

Length Match for Ethanol Match Exact

<"Grade" GF> GRADE

Current Year 2023

Settlement Check Top Margin Adjustment 230

Name to Print for Statements of Income Statements of Income

Priced Later Alternate Name

Include account reference when printing settlement checks to PrintBoss

Default List Box Filters

Scale Tickets Days

Settlements Days

Shipments Days

Commod Trans Days

Grain Storage and Service Invoices

Default Terms N15

Default Due Date 06/17/2024

This due date will be used on invoices made from settlement deductions and will not use the terms except for Stg/Svc.

Commodity Cross Ref.

1

2

3

4

Setup Preprinted WHR

Require reason for changes

Separate Shrink from Dockage

Allow the canceling of "Use Average" for all grade factor values when settling.

Installation Sale / Deferred Payment

Default Due Date / / /

Commodity Classifications

Bin Classifications

Custom Contracts

Format Type

Format Name

Add

Edit

Delete

Futures Web Service Setup

Save Cancel

- 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.

Edit a Commodity

Commodity ID: Name: Min Price: Max Price:

Unit of Measure: Inactive Commodity ID Cross Reference:

Lbs/Unit: Decimals:

Units/Metric Ton: Require variety

Location Receiving Totals

DPR - CO: DPR - Redeposited: DPR - Prev Balance: Print on DPR:

Setup Charges: Day: Month: Year: Print on TPR:

Units Received: Day: Month: Year: <Agvance Product Linked to this Commodity/Location>:

Units Shipped: Day: Month: Year: <Agvance Grain Bank Product Linked to this Commodity/Location>:

Local Sales: Day: Month: Year: Patronage Category: DS Type:

Adjustments: Day: Month: Year:

Transfers: Day: Month: Year:

Override Master Schedule:

	<Grade Factor>	Min Value	Max Value	Allow Skip	Use Average
3	DMG	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	FM	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	Sour	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Musty	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	HD	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	Weevils	0.000	99.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	GRADE	1.000	9.000	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Suppress Invoice Cost Override Popup

Default Grade Factors on Shipments

Reshrink to Average Moisture

Require Prepare for Settlement Include Zero

<Grade Factor>:

Assembly Average High/Low Divide:

Daily Ave. of to Decimals:

Grades Classifications Save Cancel

4. On the *Commodity Setup* window, select **Grades** 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 the Grade Factor is to be considered in the calculation of U. S. Grade.

Example of Setup for U.S. No. 1 Grade

Grade	Description
U.S. No. 1	U.S. No. 1
U.S. No. 2	U.S. No. 2
U.S. No. 3	U.S. No. 3
U.S. No. 4	U.S. No. 4
U.S. No. 5	U.S. No. 5

Grade: U.S. No. 1
Description: U.S. No. 1

	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"/>

Add Delete OK

Note: It is not necessary to set up 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, select **Calculate Grade** to calculate the Grade. Choosing the **Calculate Shrink and Dockage** button also causes the Grade to be calculated.

	Test	Result	Prem/Disc
1	TW	55.000	0.0000
2	Moisture	15.000	0.0000
3	DMG	0.100	0.0000
4	FM	0.100	0.0000
5	Sour		
6	Musty		
7	HD		
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 two Assembly Sheet reports to obtain the average of a Grade on all Scale Tickets. At *Grain / Grain Reports / Assembly Sheets / Assembly*, the Assembly 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
Corn (CN)							
1018							
112							
113							
124							
176		1,947.32	1,000.00				
179	1,000.00						
Totals	1,000.00	1,947.32	1,000.00	0.00	0.00	0.00	0.00

At *Grain / Grain Reports / Assembly Sheets*, the Assembly Sheet with 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
TWT 54.50

FM 0.87

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 on the Commodity setup currently used to calculate U.S. Grade for Scale Tickets (this setup applies to all Locations).

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

Grain Preferences

General Purchases Sales Posting Location Preferences

Scale Tickets 8 06/17/2024
 Settlements / / /
 Shipments / / /
 Ship Settlements / / /
 DPR /TPR 5 06/17/2024

Default List Box Filters
 Scale Tickets Days
 Settlements Days
 Shipments Days
 Commod Trans Days

Grain Storage and Service Invoices
 Default Terms N15
 Default Due Date 06/17/2024
 This due date will be used on invoices made from settlement deductions and will not use the terms except for Stg/Svc.

Commodity Cross Ref.
 1
 2
 3
 4

Setup Preprinted WHR

Warehouse Receipt Grade Factor Setup

Grade Factor	Barley	ConOil	Corn
1 Test Weight	TW	(None)	TW
2 Moisture	Moisture	(None)	Moisture
3 Heat Damage	(None)	(None)	(None)
4 Total Damage	(None)	(None)	(None)
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 may be a replacement for the signature.