

UGMA Moisture Meter Performance



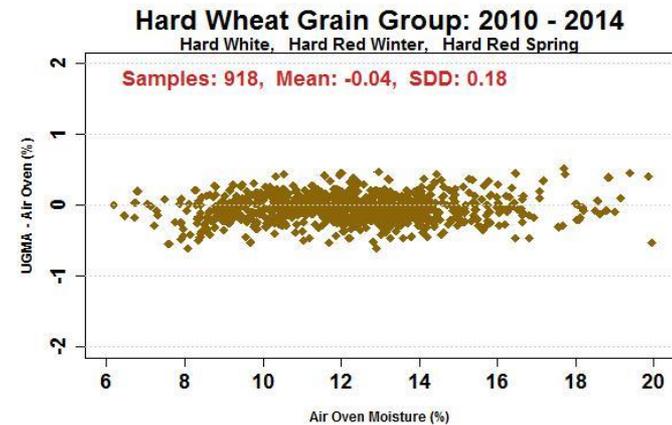
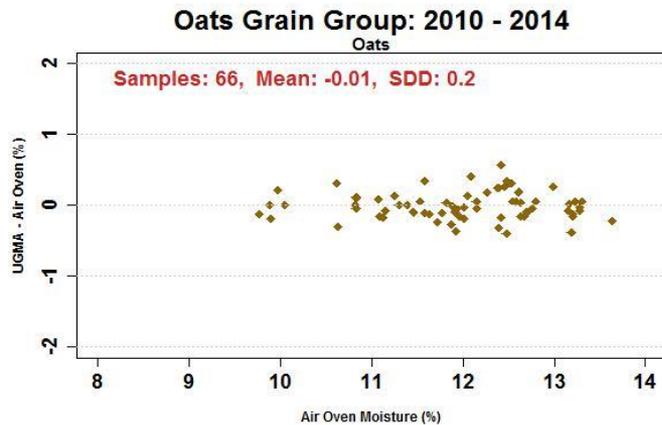
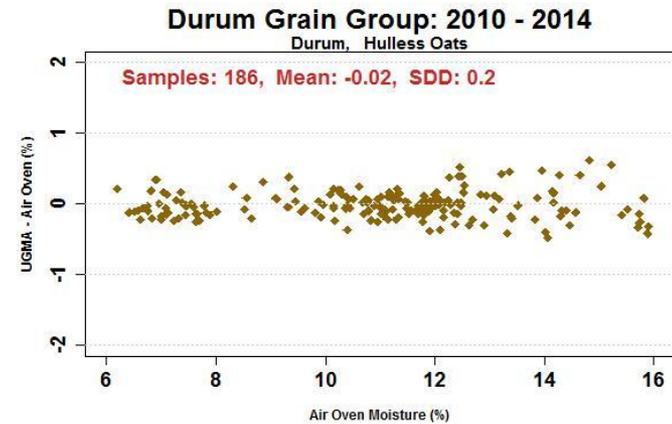
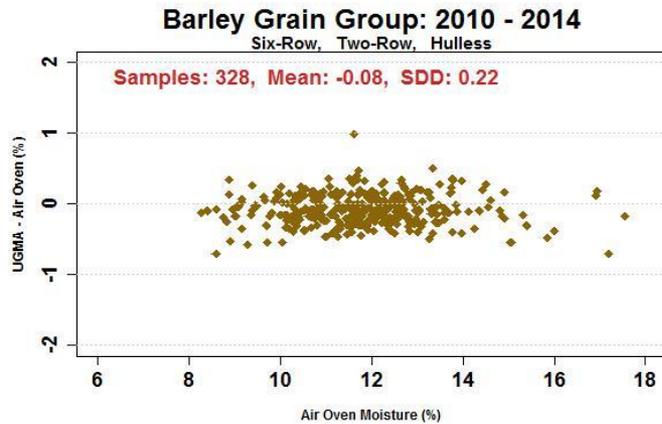
The following plots show the performance for instruments based on GIPSA's Unified Grain Moisture Algorithm (UGMA). The data were collected on the GIPSA's UGMA Master System for the crops listed on each plot. The differences are instrument moisture results minus USDA-GIPSA air oven moisture results.

The plots show data for the spring/summer harvest grain group. The specific grain types included in each grain group are listed below the grain group title of each plot. The "mean" value is the average difference between the UGMA results and the air oven results for all samples on the plot. The Standard Deviation of Differences (SDD) value is a measure of the variability of differences between the UGMA results and the air oven results. Approximately two thirds of UGMA results were within +/- the listed SDD value for that grain group.

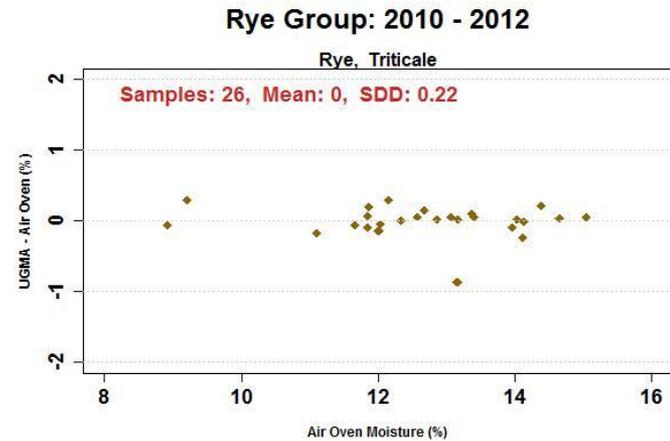
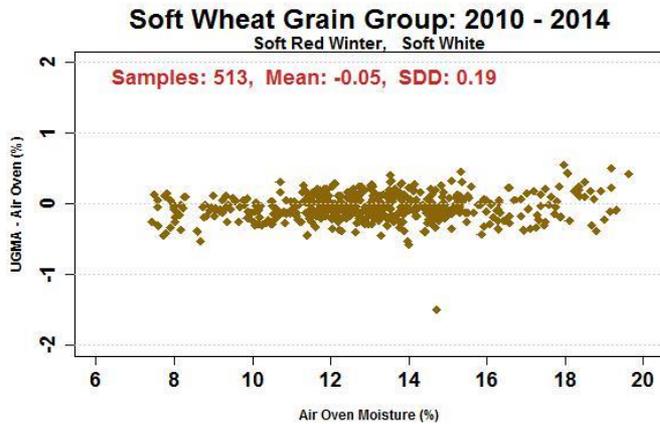
The y-axis range for all plots is +/- 2 % moisture difference, and the x-axis is the % moisture (air oven value).



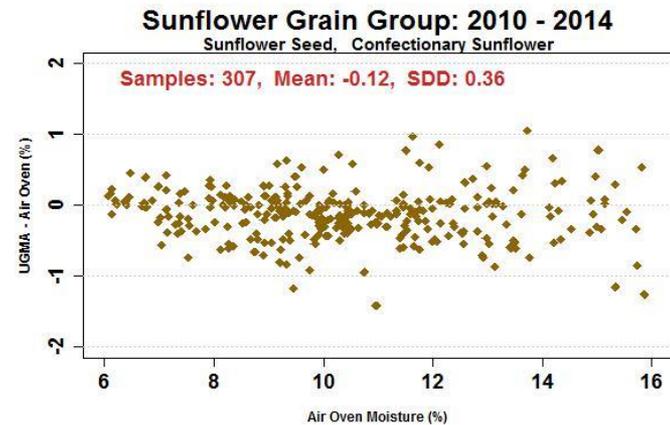
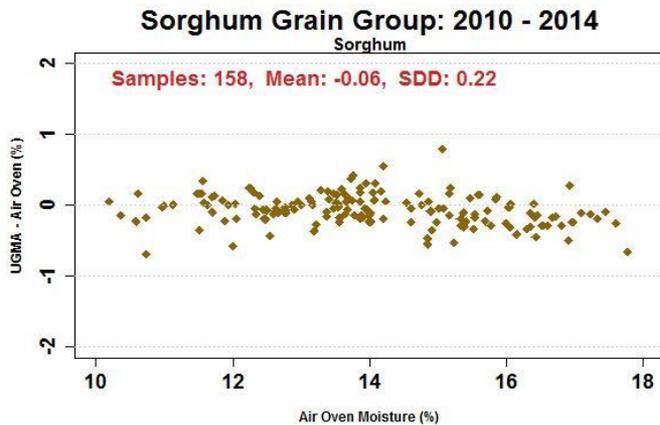
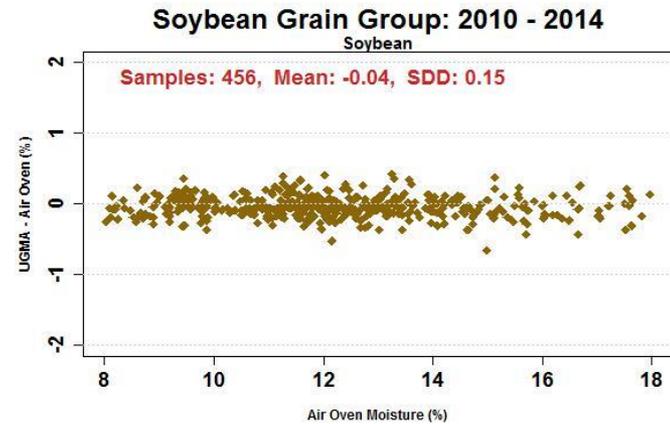
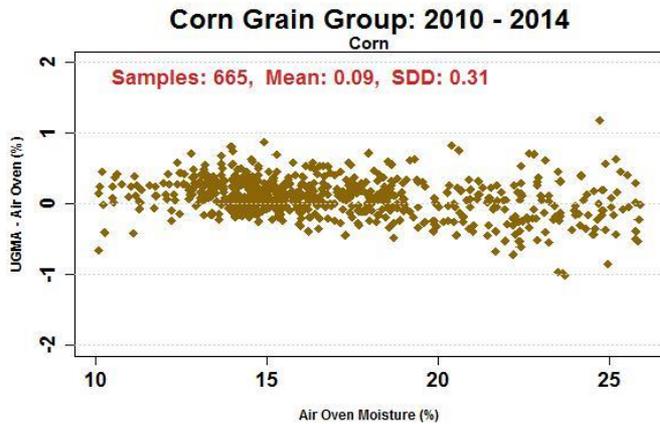
UGMA Performance for Spring/Summer Crops



UGMA Performance for Spring/Summer Crops



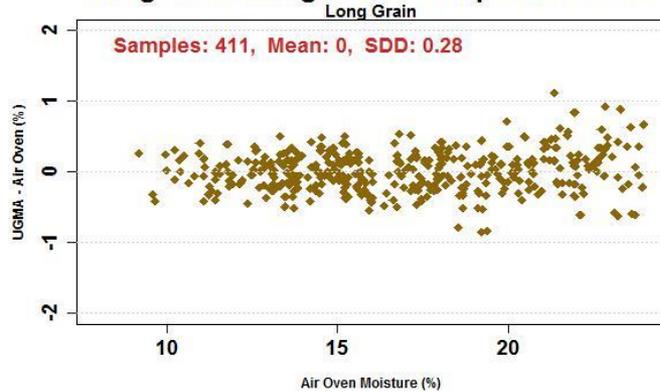
UGMA Performance for Fall Crops



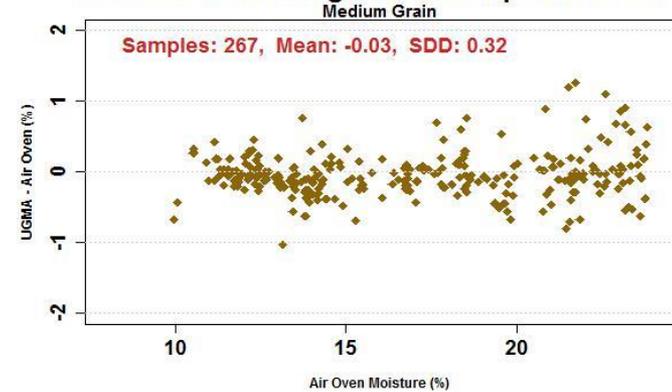
UGMA Performance for Fall Crops



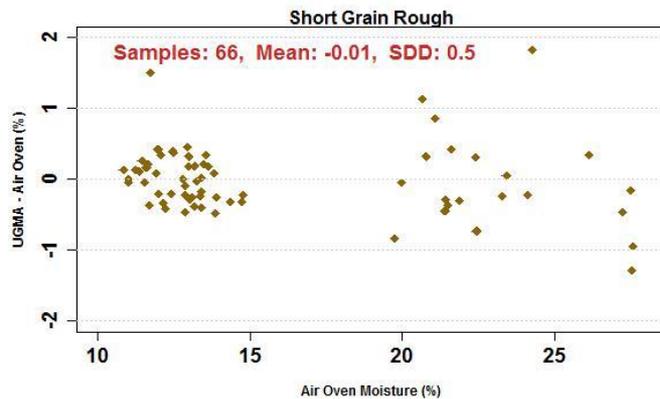
Long Grain Rough Rice Group: 2010 - 2014



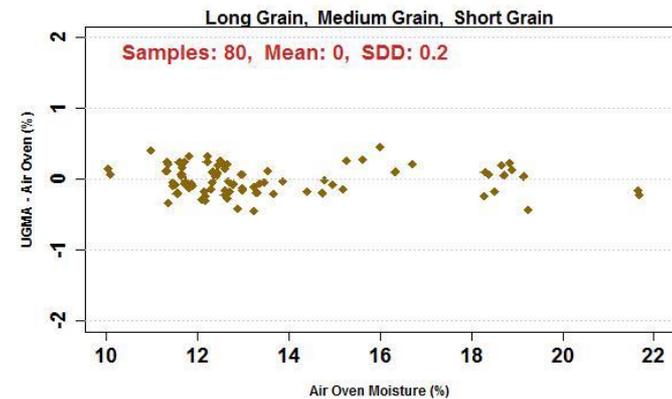
Medium Grain Rough Rice Group: 2010 - 2014



Short Grain Rough Rice Group: 2009 - 2014



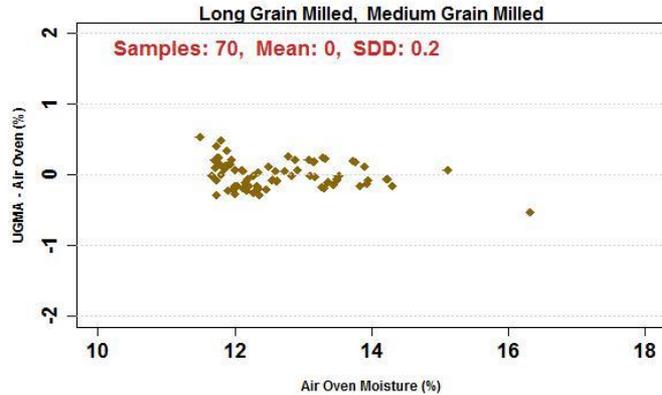
Brown Rice Group: 2009 - 2012



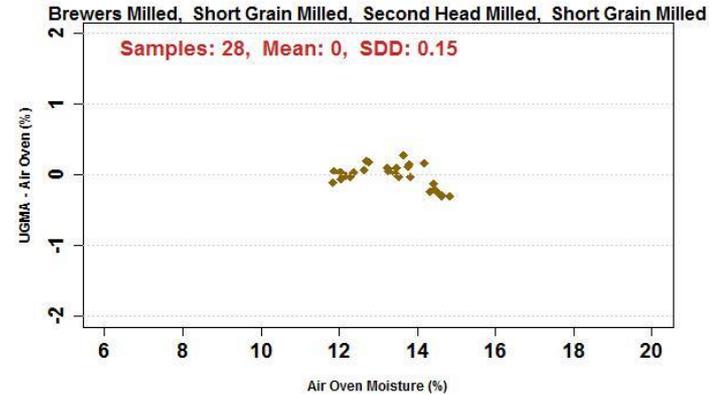
UGMA Performance for Fall Crops



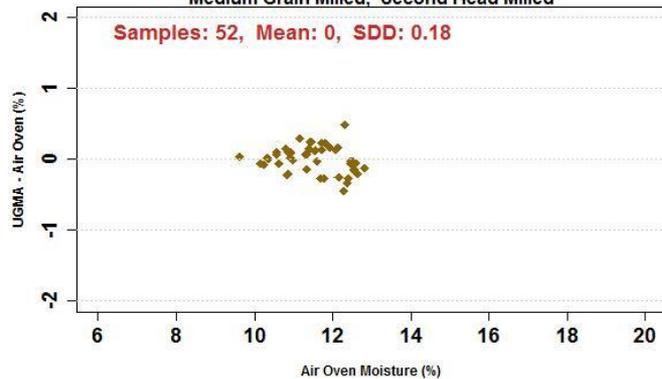
Long & Medium Milled Rice Group: 2009 - 2011



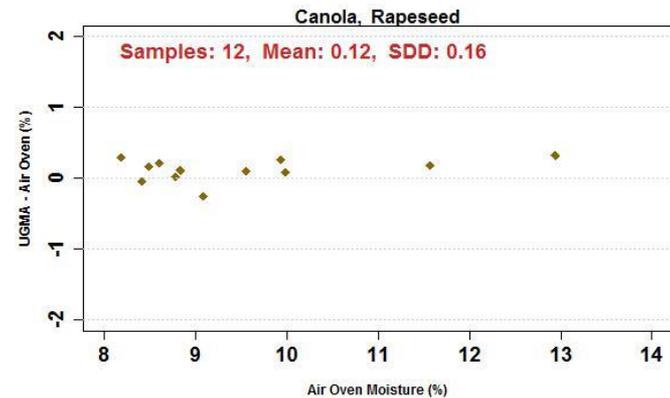
Short Grain Milled Rice Group Year: 2012



Parboiled Rice Group Year: 2012



Canola Grain Group: 2010 - 2014



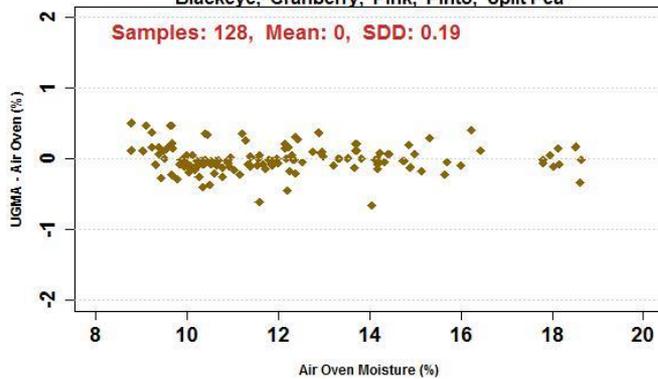
UGMA Performance for Fall Crops



Bean 1 Grain Group: 2009 - 2014

Blackeye, Cranberry, Pink, Pinto, Split Pea

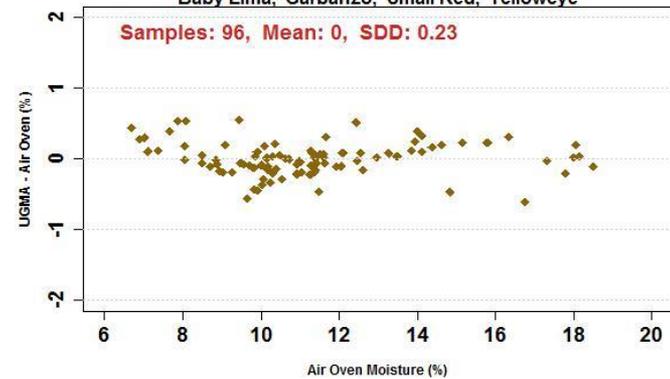
Samples: 128, Mean: 0, SDD: 0.19



Bean 2 Grain Group: 2009 - 2011

Baby Lima, Garbanzo, Small Red, Yelloweye

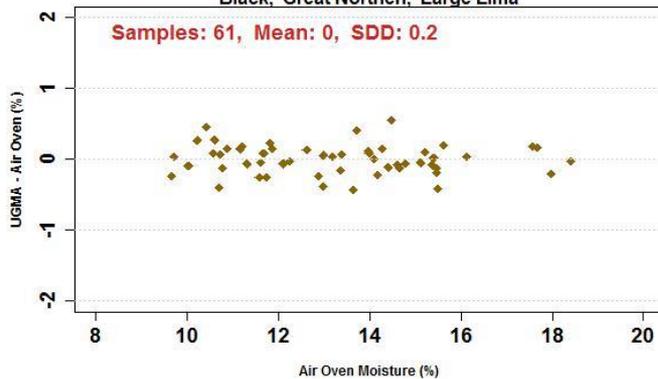
Samples: 96, Mean: 0, SDD: 0.23



Bean 3 Grain Group: 2009 - 2012

Black, Great Northern, Large Lima

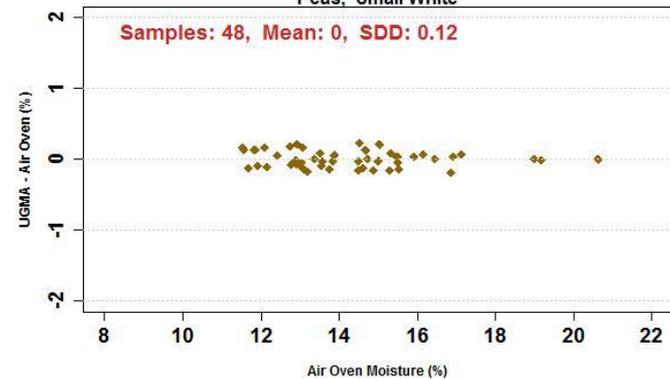
Samples: 61, Mean: 0, SDD: 0.2



Bean 4 Grain Group: 2009 - 2011

Peas, Small White

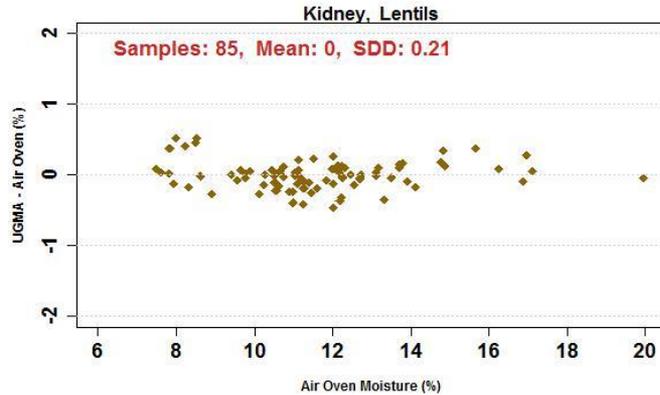
Samples: 48, Mean: 0, SDD: 0.12



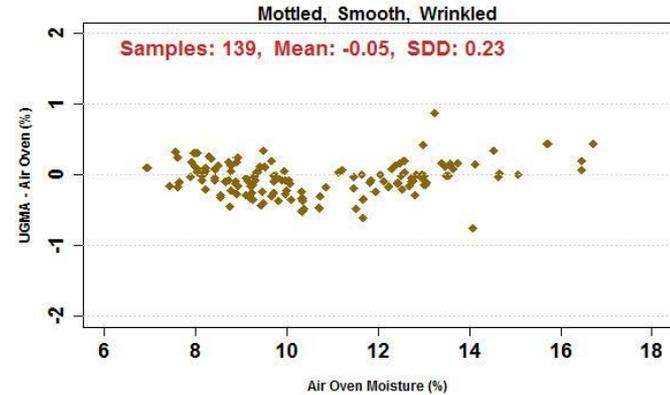
UGMA Performance for Fall Crops



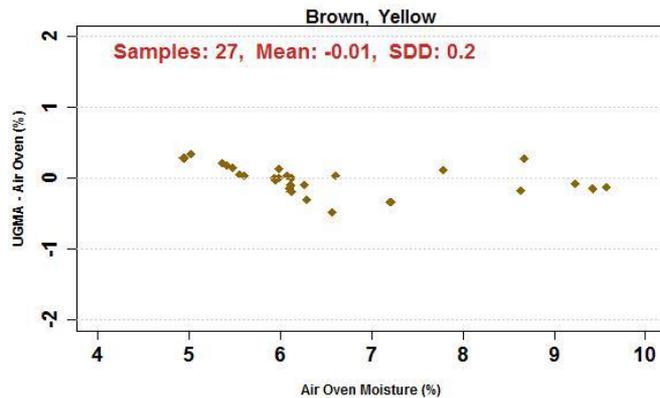
Bean 5 Grain Group: 2009 - 2011



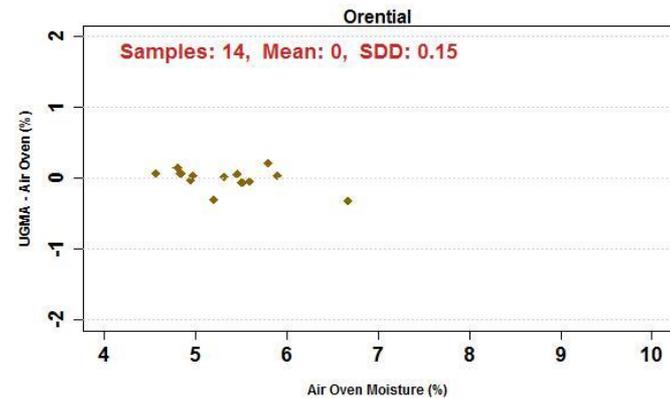
Peas Grain Group: 2009 - 2014



Mustard Grain Group: 2009 - 2014



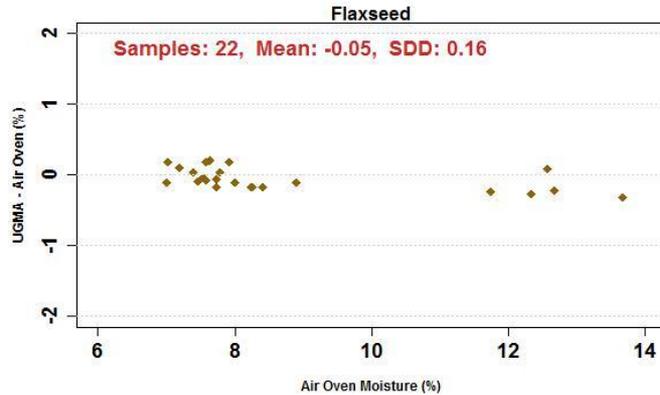
Oriental Mustard Grain Group: 2008 - 2012



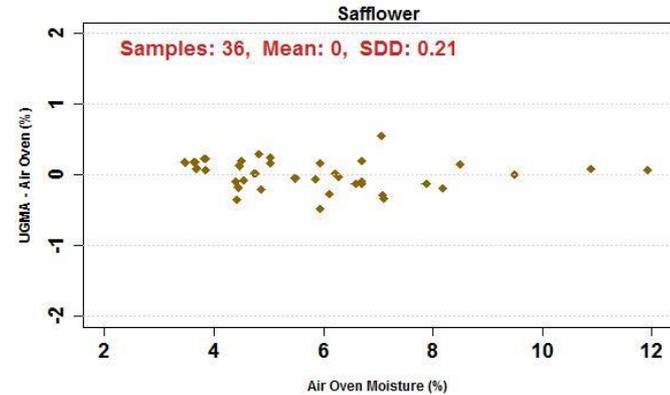
UGMA Performance for Fall Crops



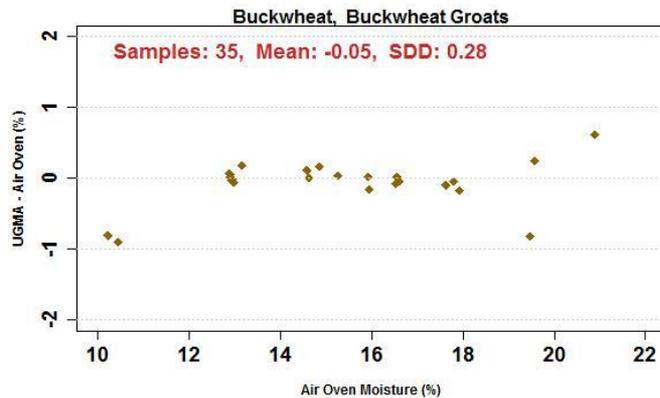
Flaxseed Grain Group: 2010 - 2012



Safflower Grain Group: 2008 - 2011



Buck Wheat Grain Group: 2012 - 2013



Popcorn Grain Group: 2012 - 2014

