

Progress Report on Leaf Grade by Instrument

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- Beginning in 2011, the determination of official leaf grade in USDA was transitioned from the classer to the instrument trash measurement

HVI Trash Measurement Performance

USDA Checklot Program

Area Tol. = Area * 0.235 + 0.031

Count Tol. = Count * 0.22 + 3.2

Reproducibility of Trash Measurements

Year	Percent Area	Particle Count
2013	85.5	92.9
2012	85.6	93.2
2011	86.8	93.7
2010	86.7	91.8
2009	84.0	89.9
2008	84.1	88.2
2007	84.1	84.7
2006	81.1	80.1

USDA Transition from Manual to HVI Testing

- USDA Cotton Classification
 - 1993:
 - Composite classer grade separated into separate components of color grade and leaf grade.
 - 2000:
 - Classer Color Grade replaced by HVI Color Grade using official color grade chart to convert Rd/+b from HVI to Color Grade.
 - 2011
 - Classer Leaf Grade replaced by HVI Leaf Grade

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- Only the identification of Extraneous Matter (EM) is required of the manual classer at USDA
- Efforts underway to identify EM by instrument
 - Concept: Large area sample imaging
Detailed Image Analysis
Provide EM identification as well as improved color/trash measurements