



Successes and Challenges in Commercial Biomass Supply Chains

Successful Development of Commercial and Large Scale Supply Chains



- Harvest supply chains have been successfully developed for several large scale Bioenergy projects
 - Corn Stover (>500k Acres Harvested) DuPont, Abengoa, Poet, Verbio
- Large scale harvest operations effectively harvest thousands of acres per year in various areas of the country for forage and biomass operations

 Best management practices for harvesting, handling, and storage techniques are widely understood.



Challenges Facing Harvesting Herbaceous Crops

Digital Ag

- Working with non optimized supply chain areas
 - Producer acceptance will take time to develop
 - Compensation needs to be appropriate to current cost environment in agriculture
- Developing preprocessing capabilities that can meet the needs of a scaled supply chain
 - Developing protocols handling out-of-spec material
 - Conversion technology has to have tolerance for non standard material.
 - Limitations within the preprocessing side at a commercial scale are dictating supply chain wide changes that are often against best management practices







Data is Key to Meeting Needs



- Visibility of data through the supply chain helps improve performance and lowers cost
 - Technology to measure performance and quantify quality have become more economical and widely available
 - Information is widely more available to all levels of the supply chain
- Connecting the harvest supply chain to the needs of the preprocess and conversion lines are imperative to a successful project.





