

# THE POET APPROACH

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# LIBERTY SCOPE

- 300,000 BDT of biomass per year for operations
- Feedstock: Corn residue, EZ Bale™
  - + 1 BDT per acre removal rate
  - + Low ash, high cob feedstock
- 35 mile radius draw area
- SOP aids quality control
- Managed by POET Biomass, LLC – Division created to support POET's biomass activities.

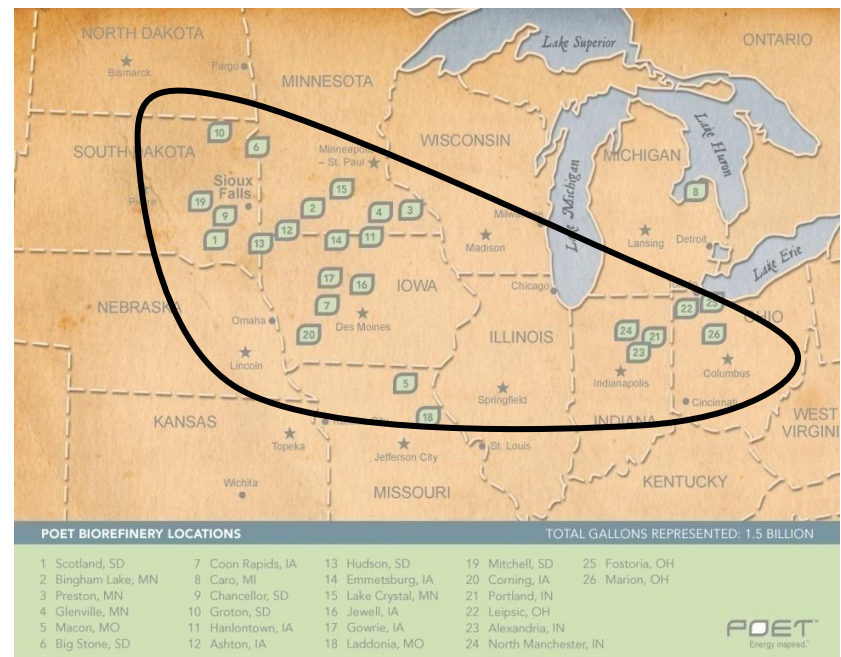
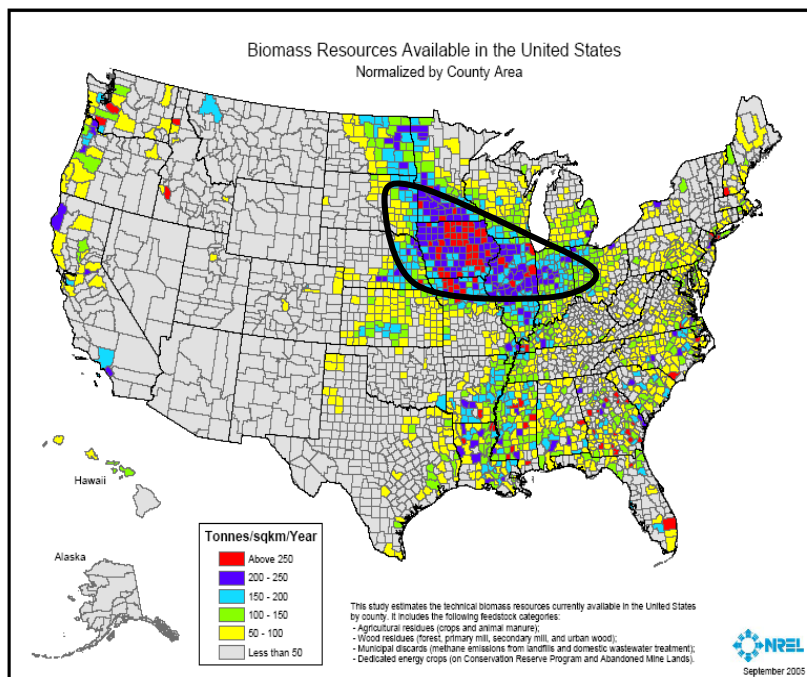


# EMMETSBURG LANDSCAPE

- Land Usage: 60% Corn, 37% Soybeans, 3% other
- 1 million corn acres within the draw area
  - + = ~4 million dry tons of biomass
  - + At the 25% removal rate, that's 1 million available tons of biomass
  - + LIBERTY will require 30% of those available tons/acres
- Farmland is dark, nutrient rich soils that are ideal for row crop production
  - + 95% of the land in the draw area has a slope less than 4% - very little HEL ground
- Due to high productivity, row crops are hard to displace

# MIDWEST LANDSCAPE

- POET has 27 plants across the corn belt with which it can co-locate
- Leverage existing corn contract relationships
- Makes corn residue the logical starting point when expanding into biomass markets



# LANDSCAPE DESIGN, FUTURE

- Plans to license LIBERTY technology around the world through POET-DSM
- Not every site will be as much of a monoculture as the that of LIBERTY
- Landscape design has been discussed with future locations
- Dedicated energy crops offer great opportunity:
  - + Risk mitigation
  - + Extended harvest scenarios or multiple harvest periods
  - + Offer biomass source while also protecting erodible soils and buffer strips.
  - + Modified CRP program