

Barley Production and Research Trends in Michigan



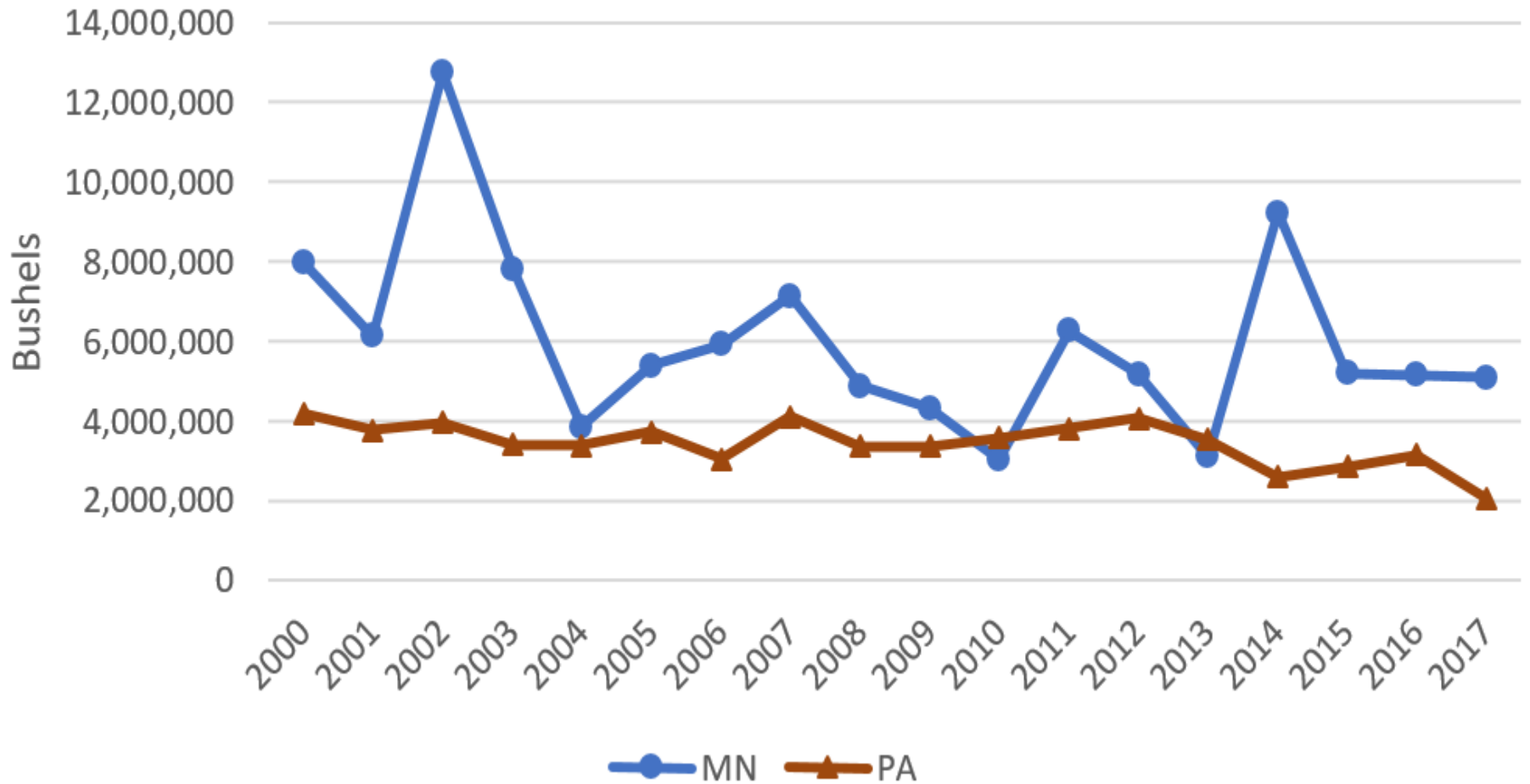
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Overview

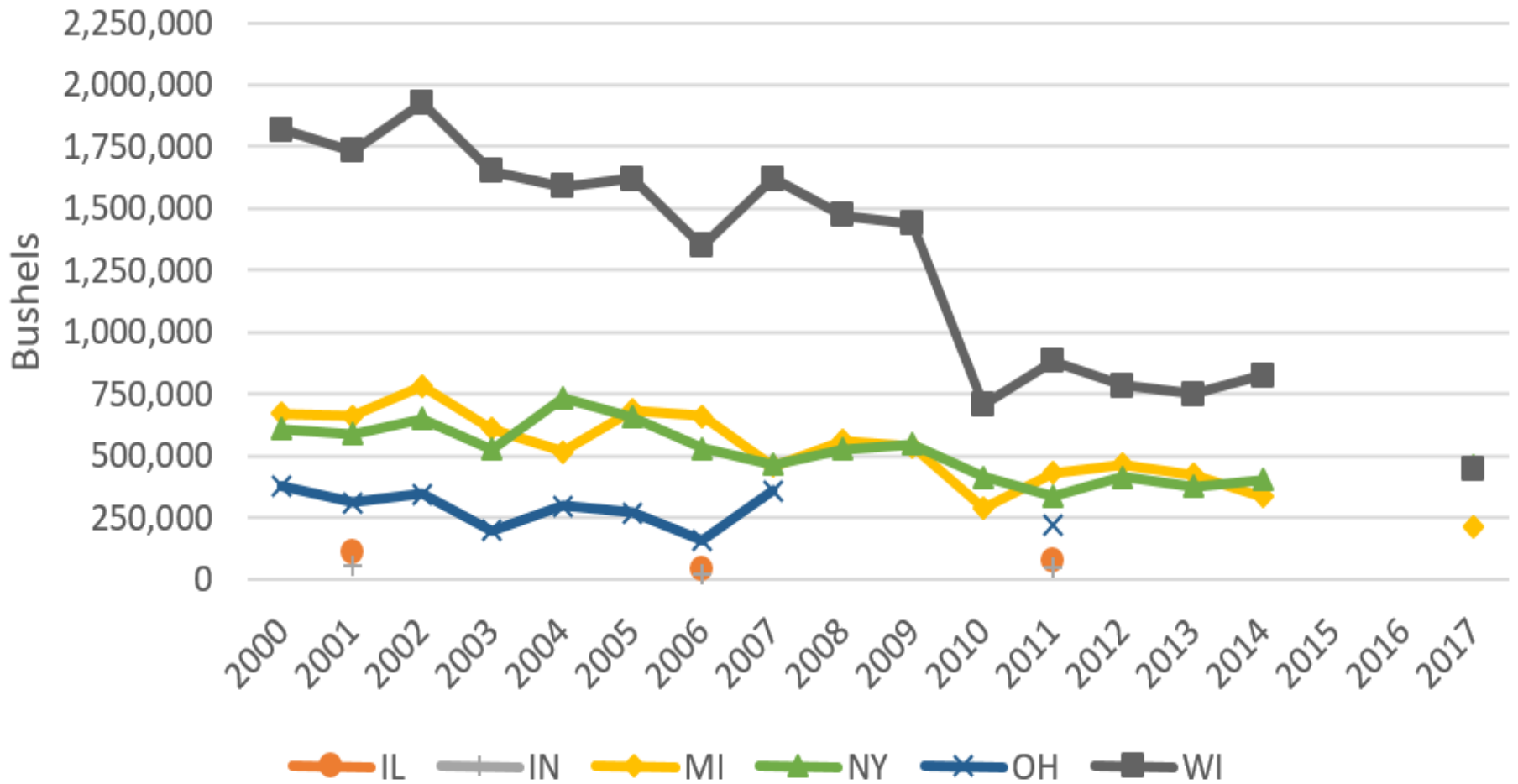
- Recent trends from our Malting Barley Survey in Michigan
- Review of MSU's malting barley research and outreach portfolio, today and looking forward



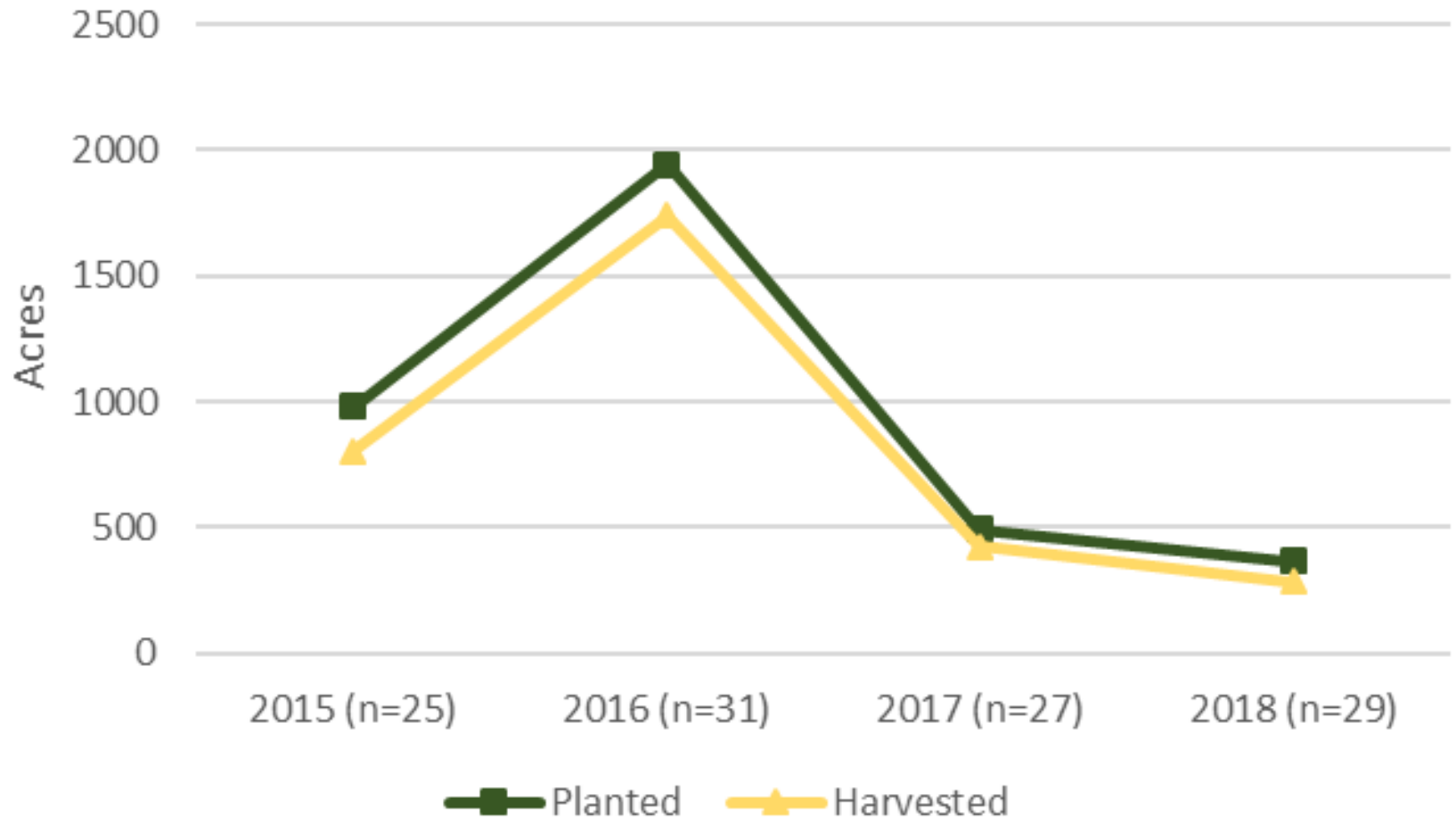
Great Lakes Barley Production



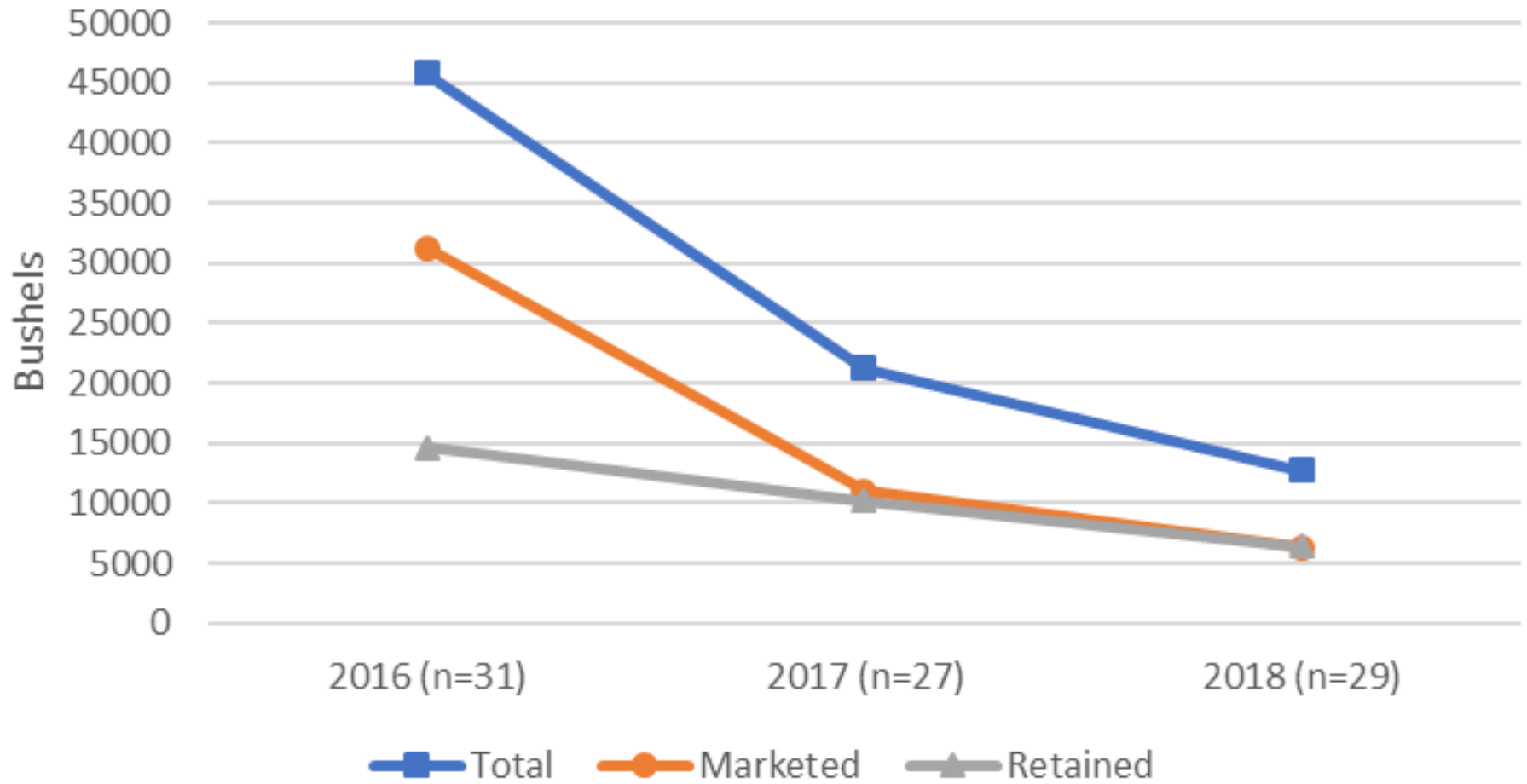
Great Lakes Barley Production



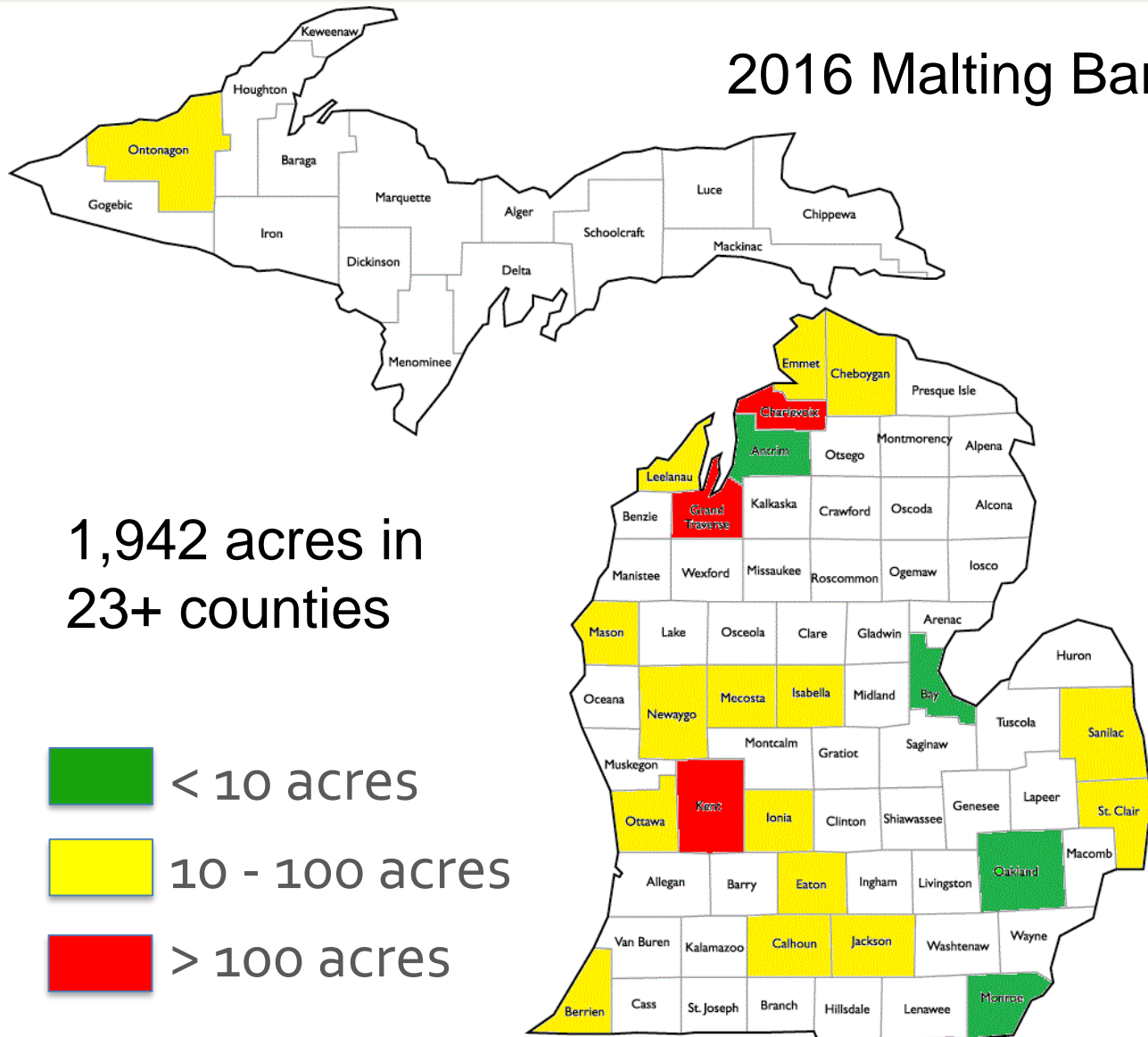
MI Malting Barley Acreage Trend



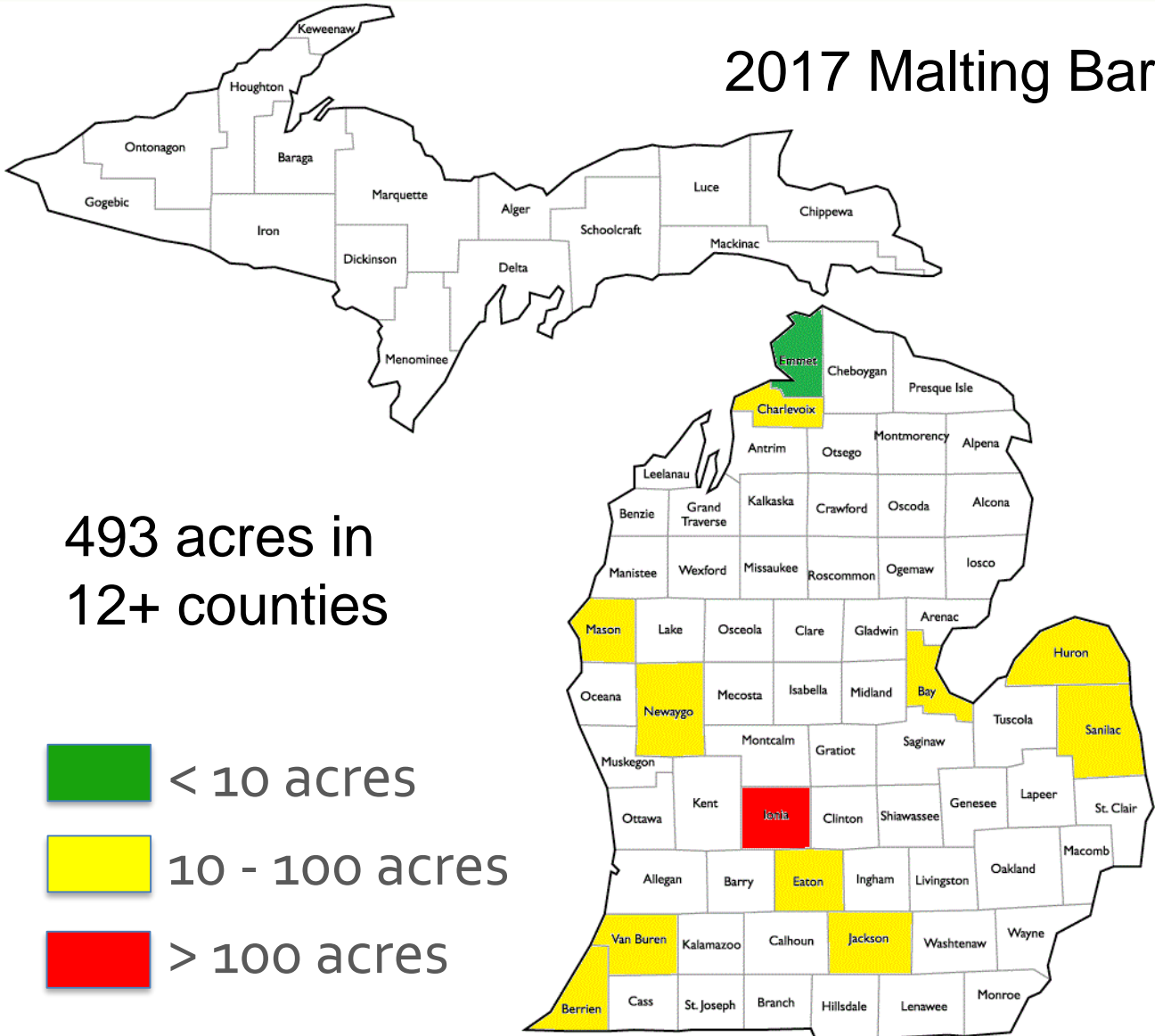
Michigan Malting Barley Production



2016 Malting Barley Acres



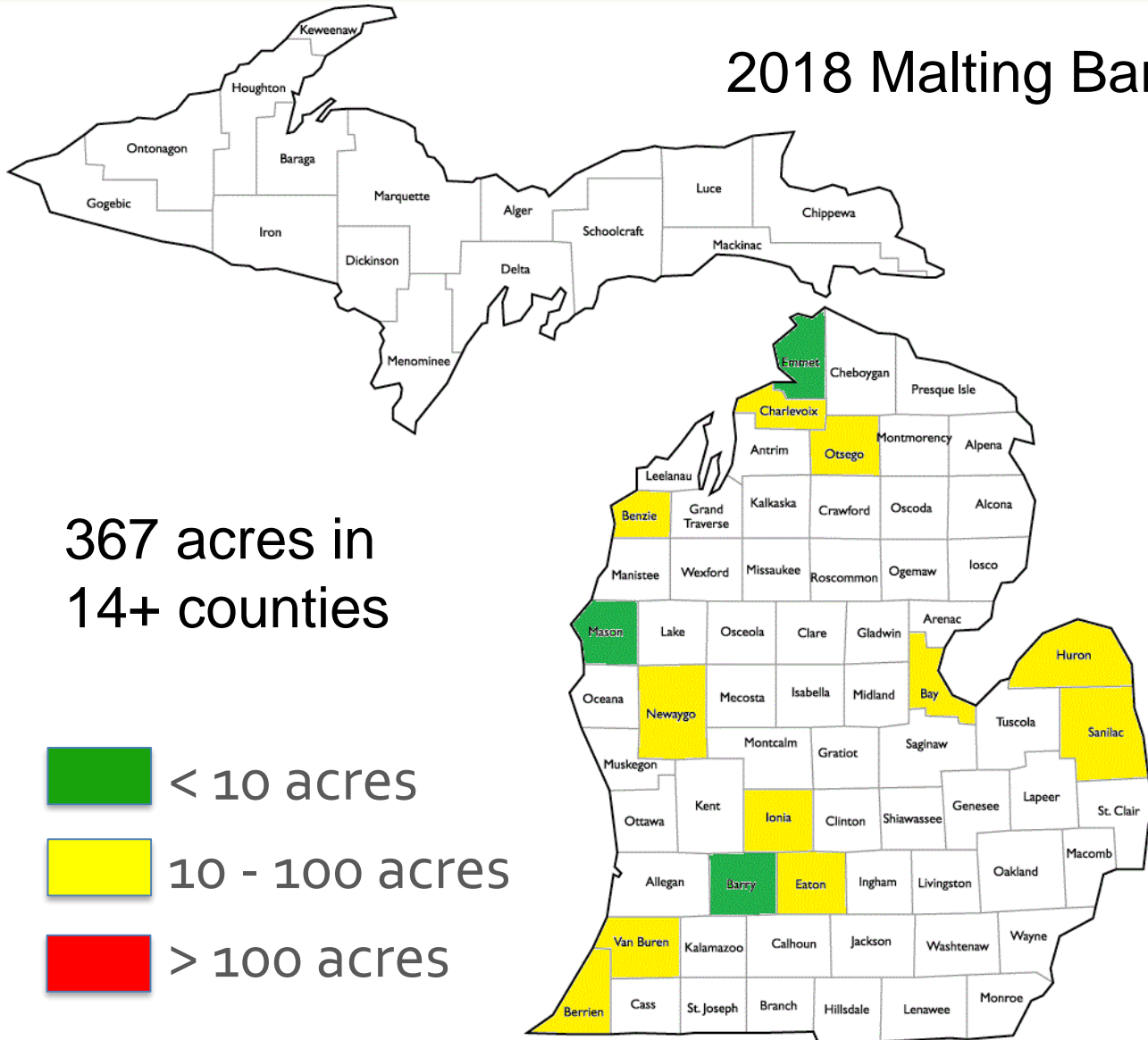
2017 Malting Barley Acres

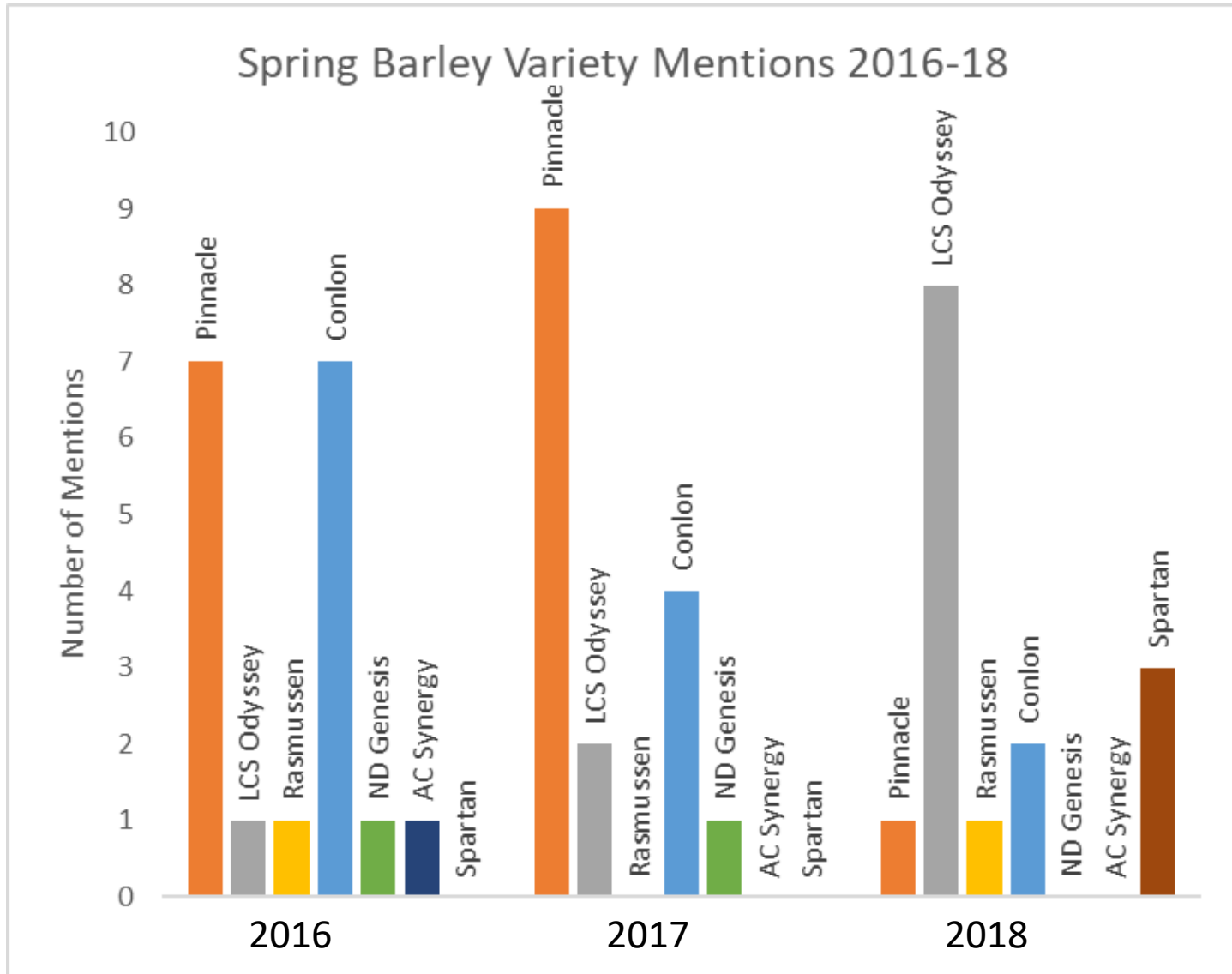


493 acres in
12+ counties

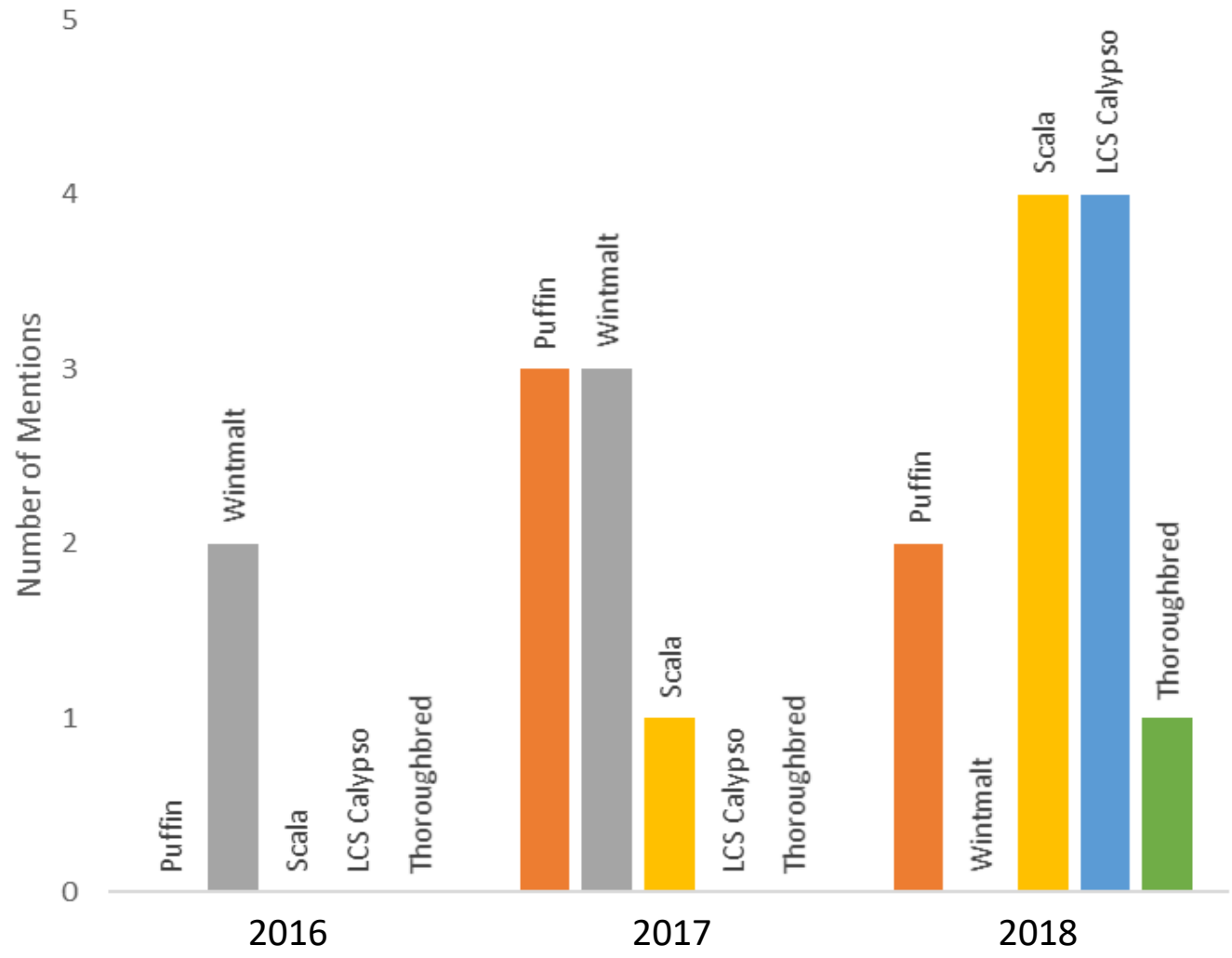
- █ < 10 acres
- █ 10 - 100 acres
- █ > 100 acres

2018 Malting Barley Acres

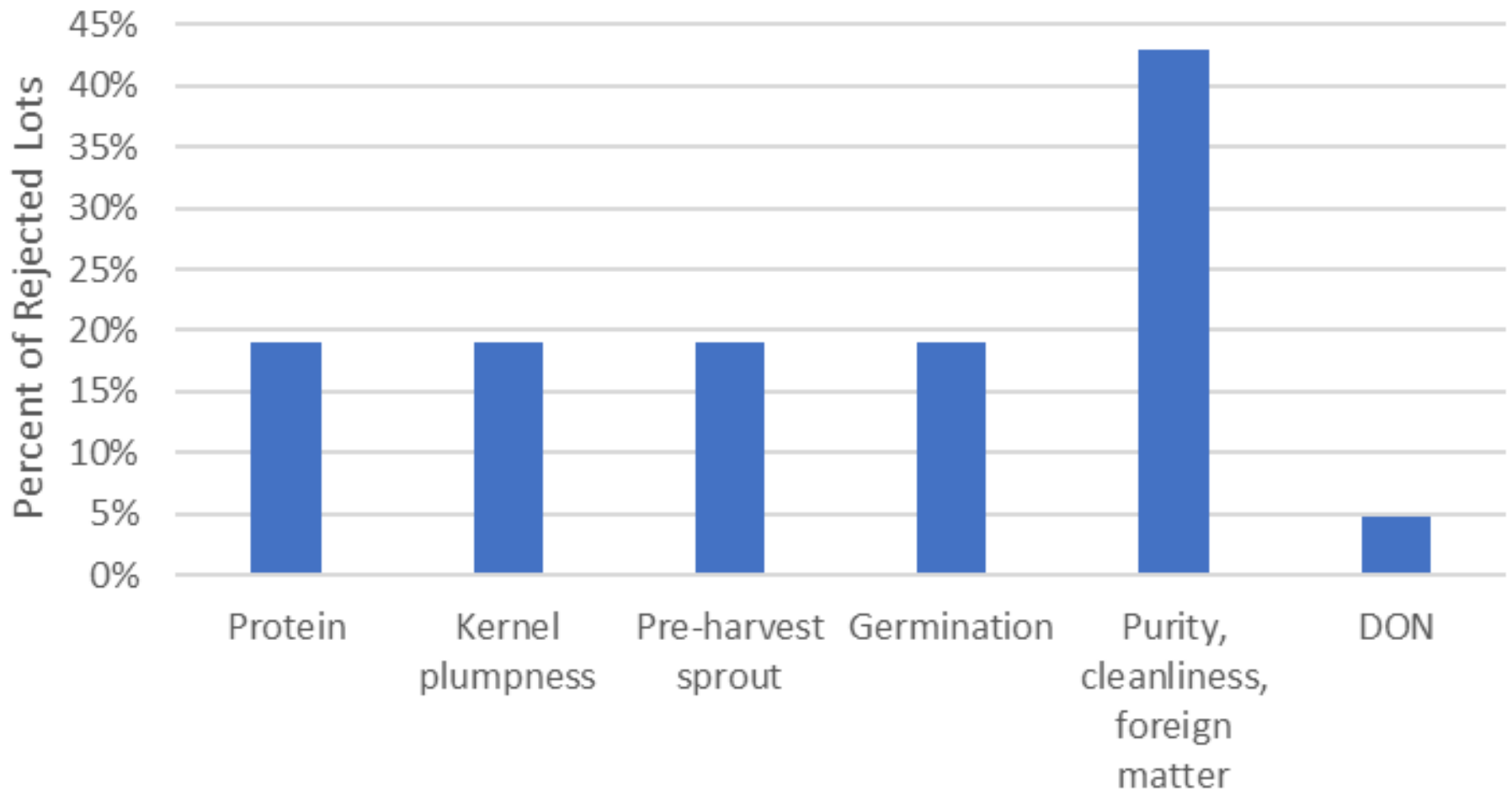




Winter Barley Variety Mentions 2016-18



Quality Factors Causing Rejection 2016-2018





Grower Challenges 2016-2018

Grower comments from 2018

- “Contract combiners expect you to use Roundup.”
- “Looking forward to seeing how the barley production and malt house story unfolds here in Michigan and to continue to be a small part of that story.”
- “Continue to work in market, but will need to see more success to continue.”
- “Because of the relatively high risk for rejection for malting, I wouldn't recommend committing too high of a percentage of your farm to barley.”
- “I've not grown barley yet, but would like to add it to my corn-soybean rotation. I'm not confident in profitability of it yet.”
- “There's too much risk, not enough reward. Seems like Michigan brewers aren't willing to pay a higher price for a local business relationship.”
- “Did not grow any this year because malthouses had supplies met.”
- “Marketing is a real challenge. Still have 6 row.”

MICHIGAN MALTHOUSES

1. U.P. MALT COMPANY
Bill Weisinger
bweising@yahoo.com
(906) 202-2128

2. SUPERIOR MALT
Clem Geiger
cgeiger@hotmail.com
(906) 399-9966

3. VALLEY VIEW FARM
Andrew Boyer
ajboyer@hotmail.com
(231) 675-5785

4. EMPIRE MALTING CO.
Alison Babb
empiremalting@yahoo.com
(352) 226-1644

5. GREAT LAKES MALTING CO.
Jeff Malkiewicz
jeff@greatlakesmalting.com
(231) 714-4551

6. KOOPS' MALT HAUS
Chris Koops
chris@koopsmalt.com
(989) 429-2754

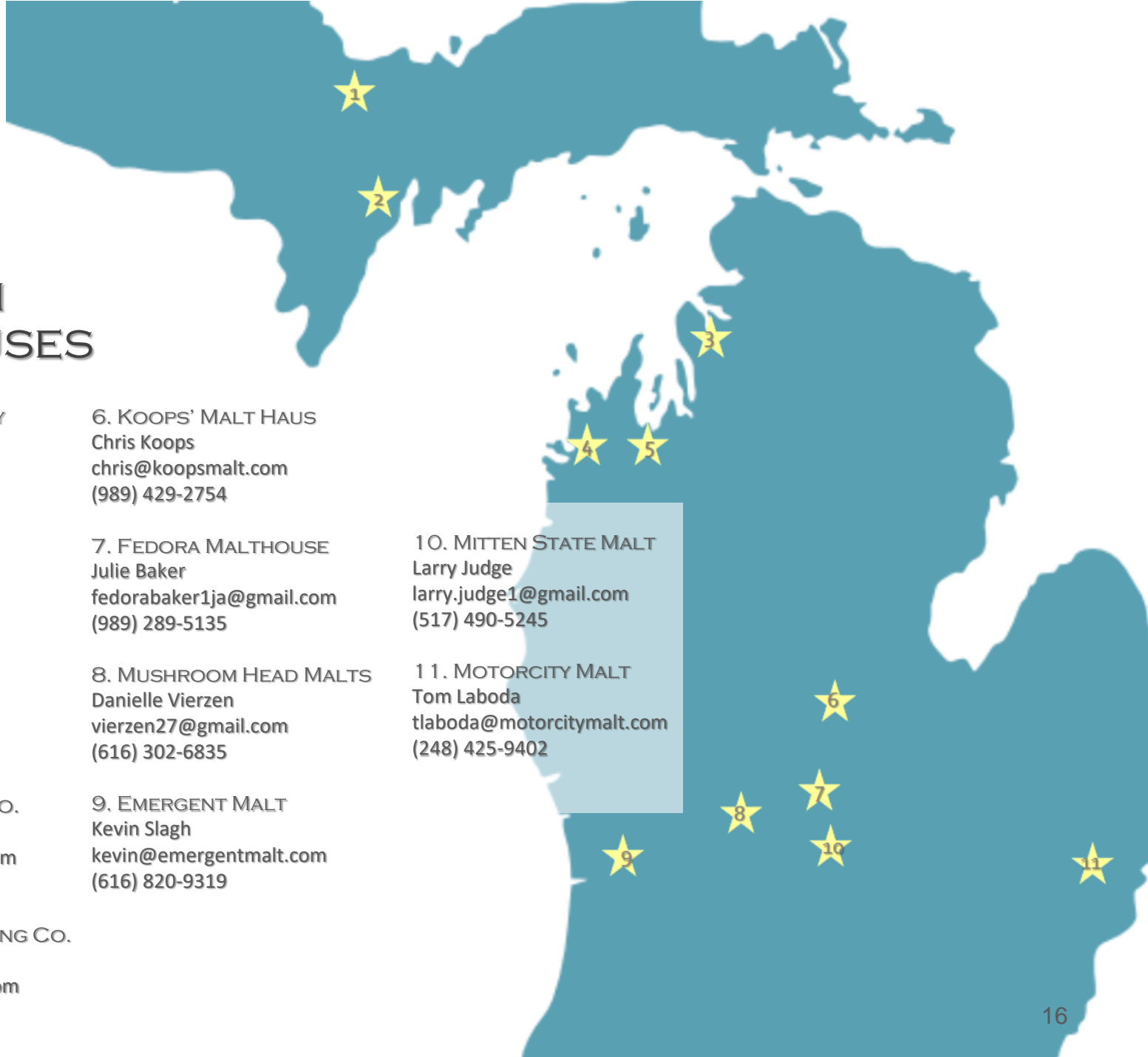
7. FEDORA MALTHOUSE
Julie Baker
fedorabaker1ja@gmail.com
(989) 289-5135

8. MUSHROOM HEAD MALTS
Danielle Vierzen
vierzen27@gmail.com
(616) 302-6835

9. EMERGENT MALT
Kevin Slagh
kevin@emergentmalt.com
(616) 820-9319

10. MITTEN STATE MALT
Larry Judge
larry.judge1@gmail.com
(517) 490-5245

11. MOTORCITY MALT
Tom Laboda
tlaboda@motorcitymalt.com
(248) 425-9402



MSU Research

- Malting barley research at the Upper Peninsula Research and Extension Center since 2013
- Lower Michigan since 2014
 - Varieties (spring and winter)
 - Fertility
 - Fungicide
 - Seeding rate
 - Supporting on-farm research



MSU Malting Barley Team



Dr. Dean Baas



Christian Kapp



Martin Nagelkirk



Ryan Hamilton



James DeDecker



Dr. Brook Wilke

https://www.canr.msu.edu/malting_barley/

UPREC Malting Barley Quality Lab

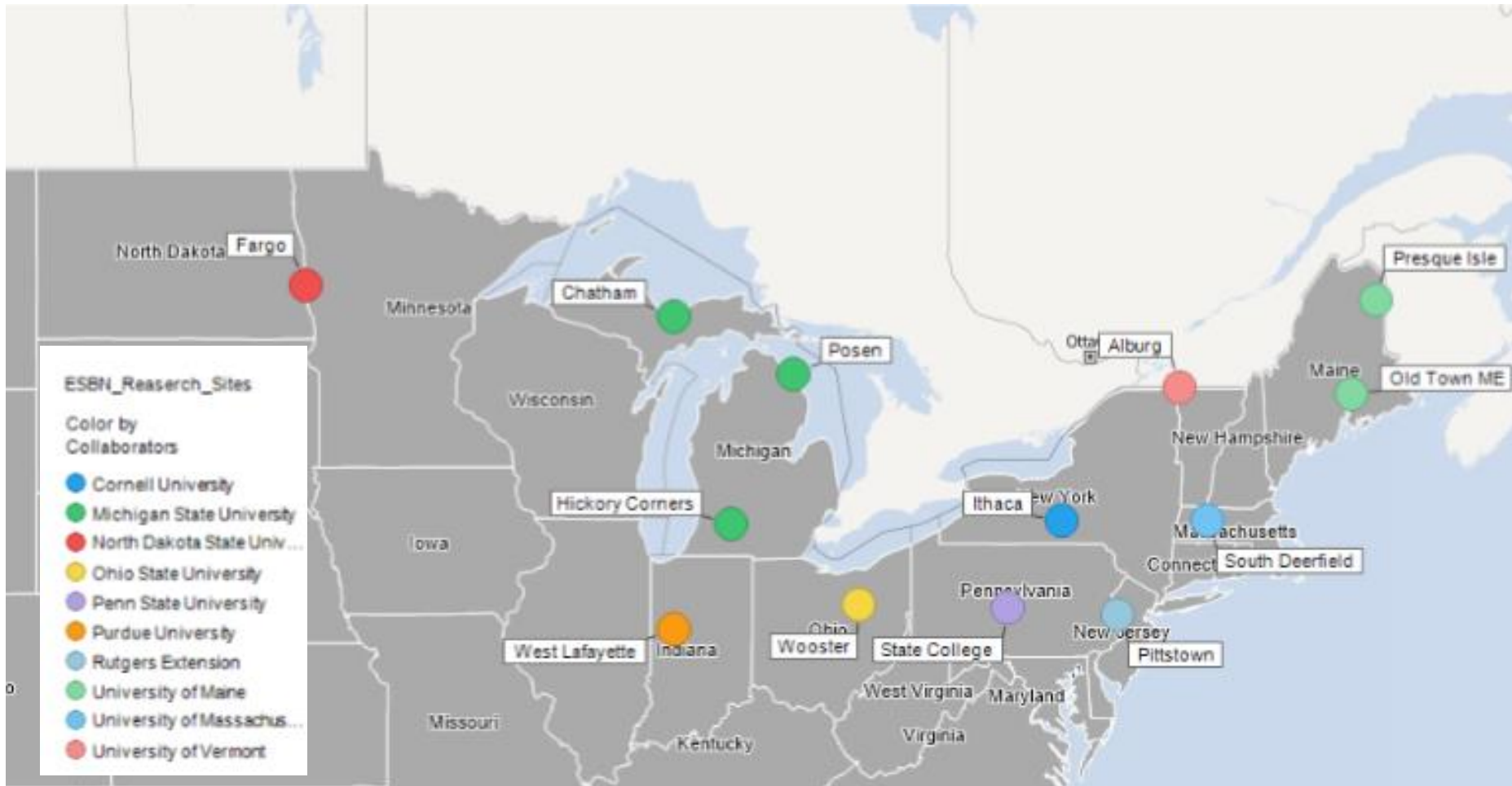
- Est. in 2015 with funding from the Brewers Assoc., MDARD, Brewers Guild and MSU
- ASBC methods and check sample program
- Chris Kapp will present trends today!

Analysis option	Includes	Price/sample
Complete analysis	moisture, kernel plump & thin, germination tests, protein, pre-harvest sprout, and DON	\$50
Protein + DON only	NIR + Neogen Reveal Q+	\$30
DON only	using Neogen Reveal Q+	\$20
Germination only	germination energy, capacity and water sensitivity	\$20

Eastern Spring Barley Nursery

- Craft Maltsters Guild and NDSU with nine other universities
- Identify existing spring barley varieties that may be adapted to the eastern U.S.
- 28 varieties in 2018
- 3 locations in MI
- Yield report available
- Dr. Horsley will present results today!

Eastern Spring Barley Nursery



Winter Malting Barley (Variety) Trials

- University of Minnesota and partner states
- Trial new winter varieties for yield and quality
- 27 varieties for 2018 harvest
- 2 locations in MI
- Dr. Wilke will present results today!



Winter Malting Barley Management Trials

- MSU led project focusing on geographic range and management of winter barley
 - Winter hardiness by location and environment
 - N rate, planting date & rate, fungicide, growth regulator
- 2 MSU locations and 8 on-farm sites in 2019-20
- Dr. Wilke and Martin Nagelkirk will present today!



Malting Barley Outreach

- New investments in education and support for the entire industry, not just growers
- Ryan Hamilton will lead industry panel today!
- Facilitated advisory discussion this afternoon!



Extending into new products & uses

- Cereal rye for craft distilling
- Barley nurse crops for forage establishment
- Alternative food uses



Project GREEN



Michigan State University



Inspired Brewing



American Malting Barley Association, Inc.

AgBioResearch

MICHIGAN STATE UNIVERSITY | Extension