

Welcome!



Michigan Agriculture

- \$104.7 billion in annual economic impact
- Roughly 805,000 jobs (17% of total employment in Michigan)
- Second-most diverse agricultural state behind only California
- 90 commodity organizations

MSU Research and Extension Centers

- 18 on-campus facilities
- 15 outlying centers with specialties
 - Dairy
 - Livestock
 - Dry beans/Sugar beets
 - Forages
 - Fruit
 - Food systems
 - Bioenergy
 - Forestry
 - Potatoes
 - Vegetables
 - Cropping systems
 - Natural systems



Forages in Michigan

Dr. Kim Cassida



K.A. Cassida

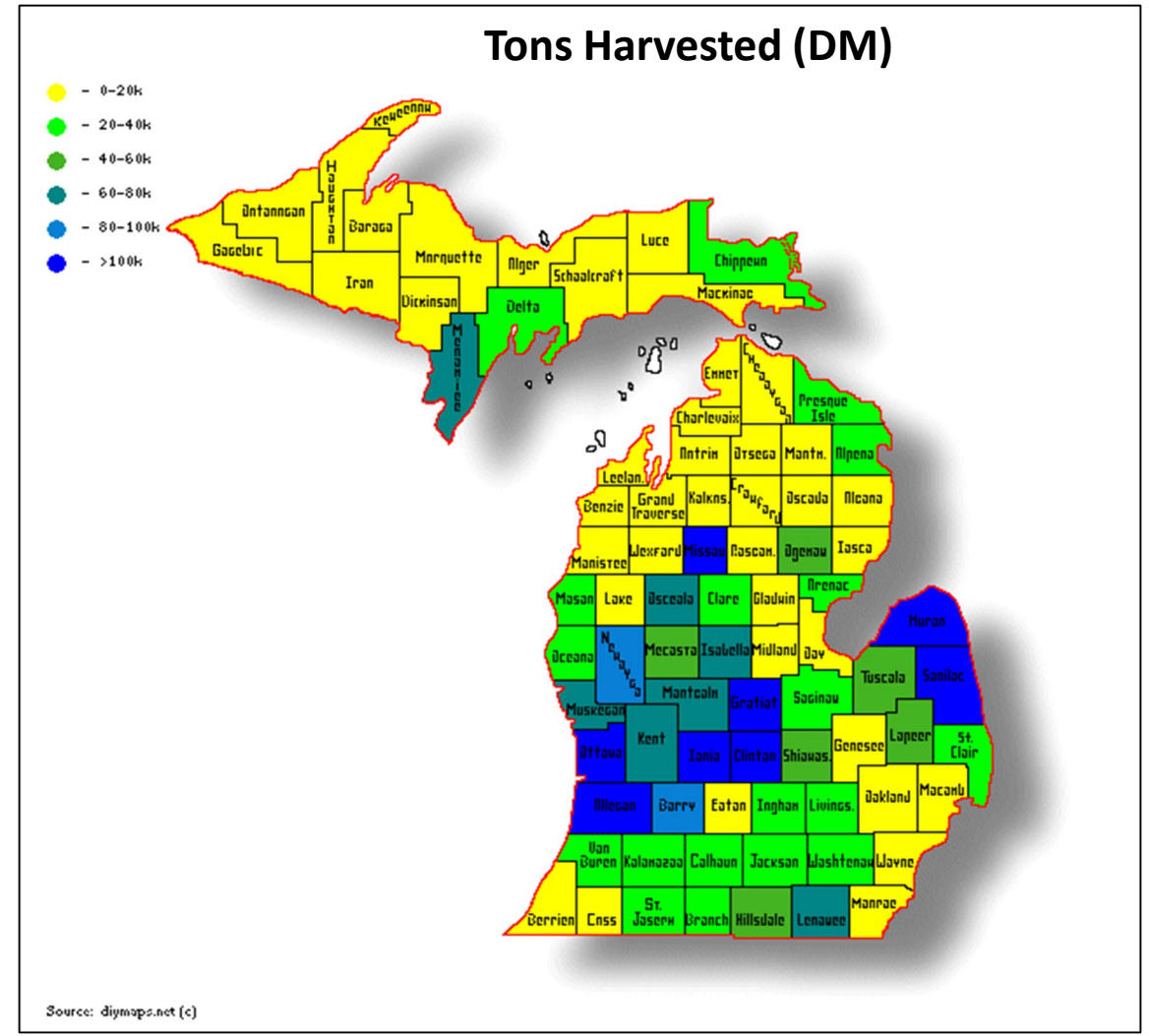
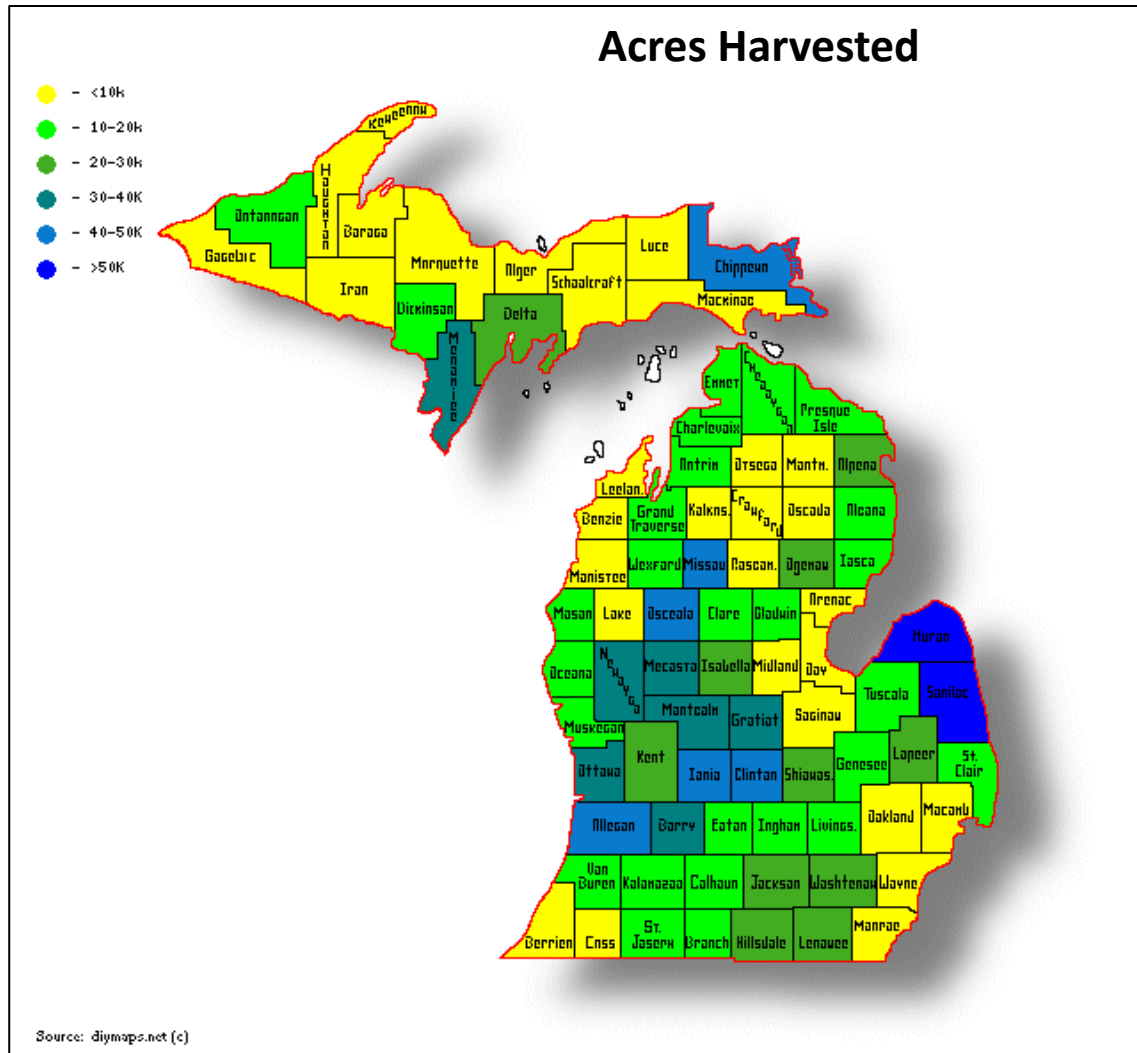


Top Ten Crops in Michigan by Acreage

(2021, USDA-NASS)

Rank	Crop	Acres
1	Soybeans	2,150,000
2	Corn grain	1,990,000
3	Hay & haylage	985,000
4	Wheat	560,000
5	Pasture	523,905
6	Corn silage	340,000
7	Sugar beets	142,000
8	Potatoes	46,500
9	Cucumbers	33,800
10	Apples	30,500

Distribution of Harvested Forage Acreage and Yield (hay + haylage + corn silage) Michigan Ag Census - 2012





705,00
dairy cattle

**279,000
beef cattle**



Grass-fed Beef



**116,000
sheep and goats**





64,000
equines

Current Forage Issues in Michigan

- **Wacky weather hammers forage yield - cold, hot, dry, wet**
- **Cumulative stress matters for perennial crops**
- **Inconsistent supply**
- **When corn goes high, hay acres decrease**
- **Access to resources for small-scale growers**

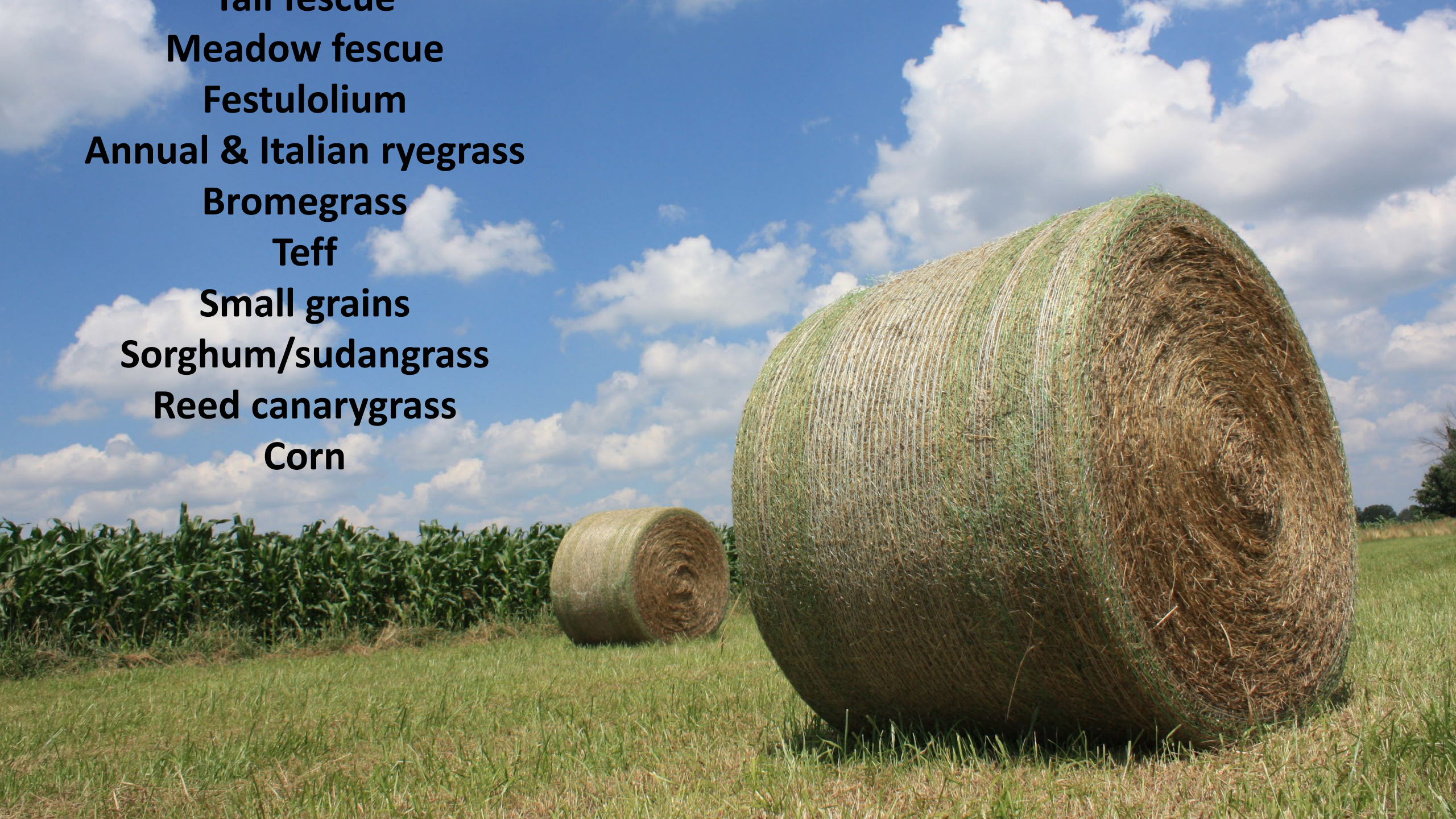
Alfalfa
Red clover
White clover
Birdsfoot trefoil





Hay
Haylage
Baleage
Pasture
Green chop

Tall fescue
Meadow fescue
Festulolium
Annual & Italian ryegrass
Bromegrass
Teff
Small grains
Sorghum/sudangrass
Reed canarygrass
Corn







The KBS LTER soil profile; Photo Credit: J.E. Doll, Michigan State University





KBS LTER Main Cropping Systems Experiment during early summer 2017; Photo Credit: Kevin Kahmark, MSU

Welcome!



Thank you to our tour sponsors!

Silver: GO Seed and Barenbrug USA



Bronze: Byron Seeds, GreenStone Farm Credit Services, Forage Council

