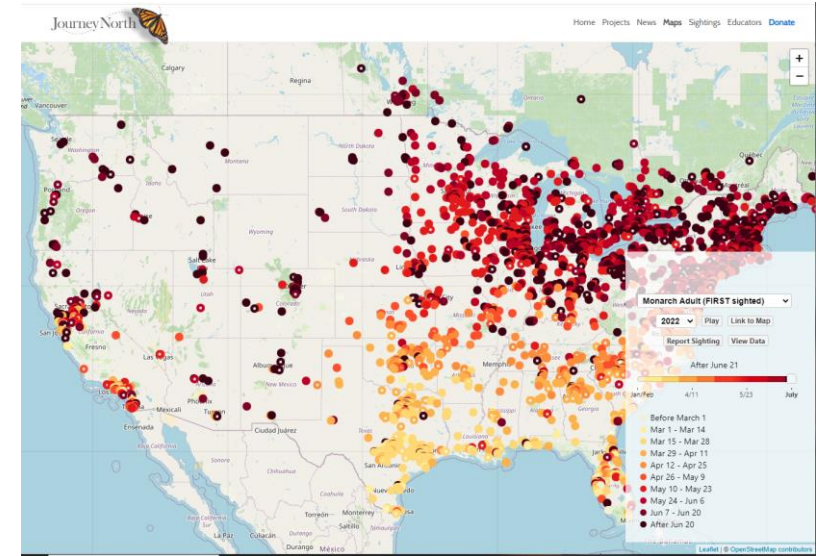
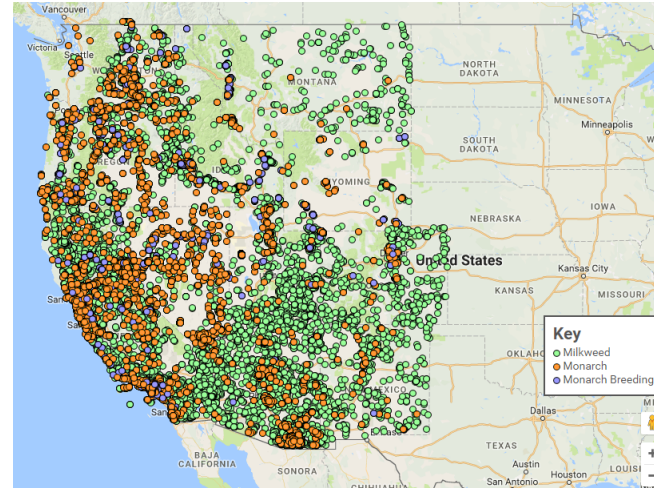


Eastern Monarch Population Update

WENDY CALDWELL, MONARCH JOINT VENTURE



Crowdsourcing Sightings

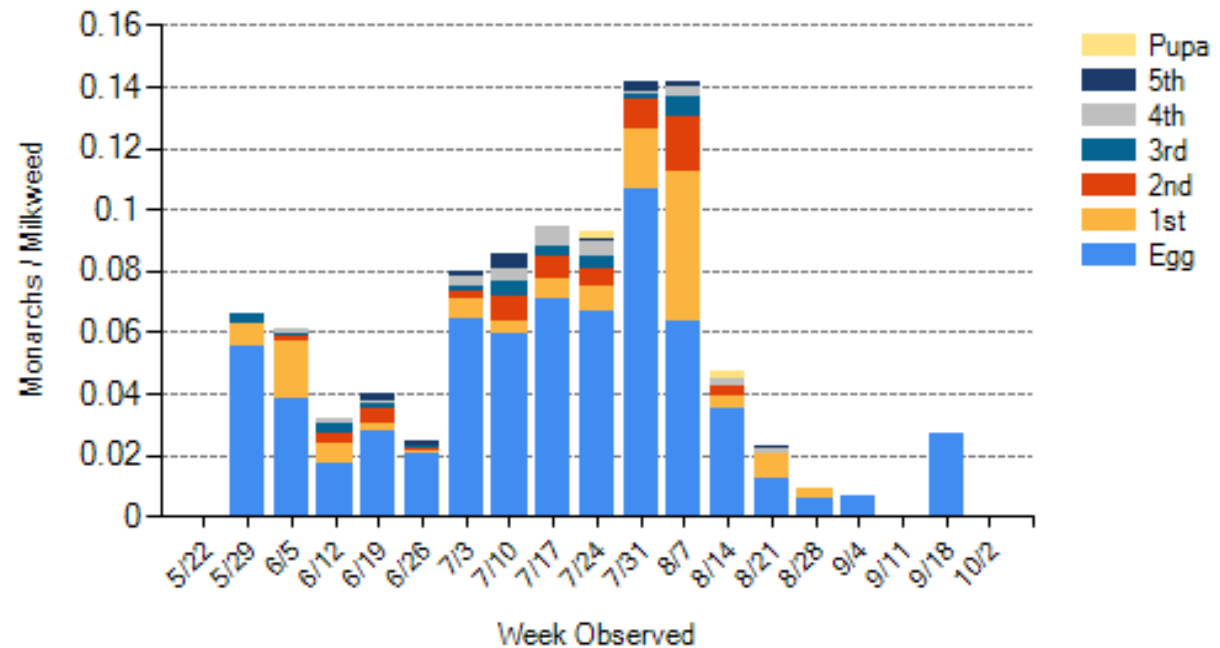


Habitat and Monarch Surveys



2022 MLMP Monarch Density for Minnesota

Total avg. sample size = 1,032 plants/week



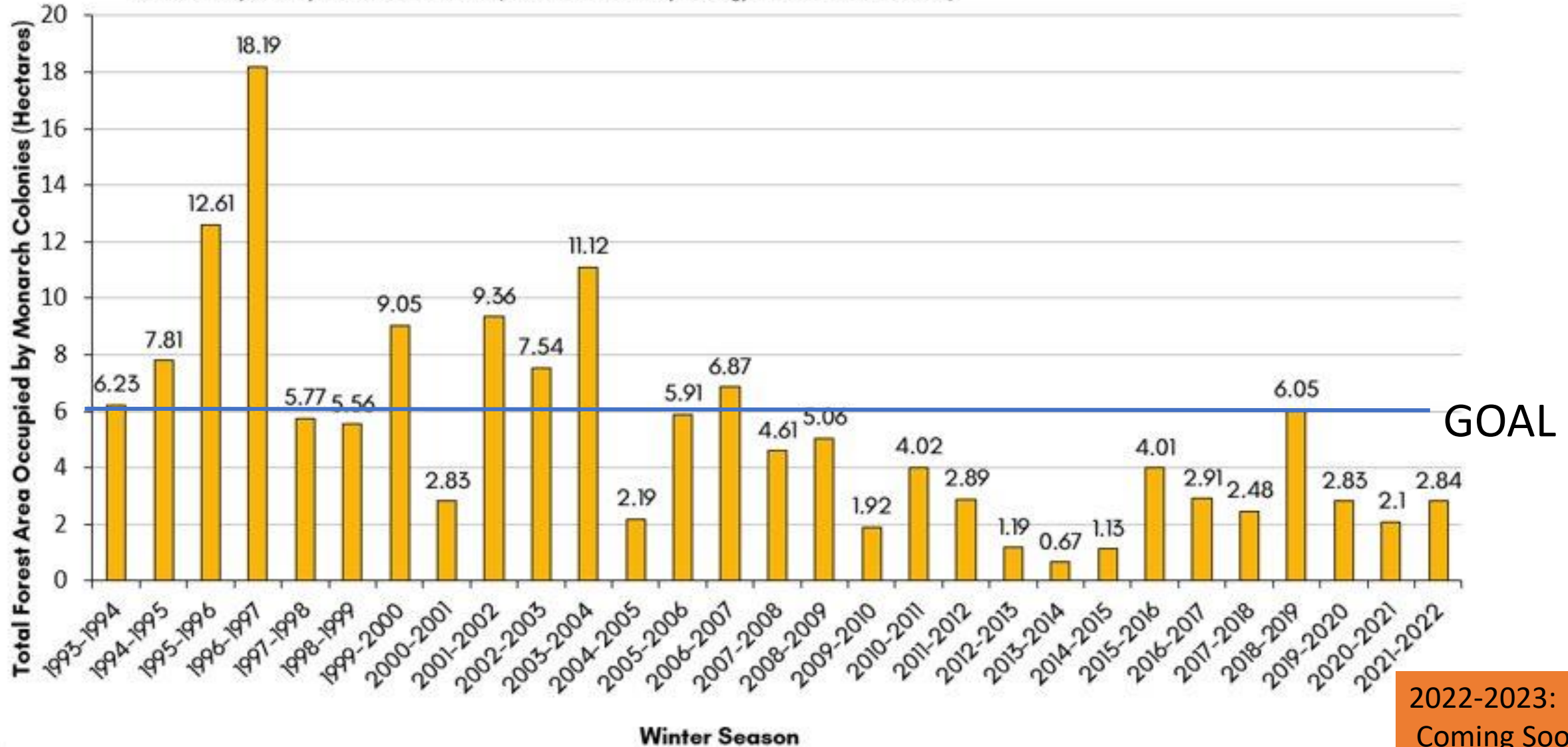
of sites monitored = 27



Eastern Monarch Overwintering Population

1993/1994 - 2021/2022

Data from 1994-2003 were collected by personnel of the Monarch Butterfly Biosphere Reserve (MBBR) of the National Commission of Protected Natural Areas (CONANP) in Mexico. Data from 2004-2022 were collected by the WWF-Telcel Alliance, in coordination with the Directorate of the MBBR. 2000-01 population number as reported by Garcia-Serrano et. al (The Monarch Butterfly : Biology and Conservation, 2004)



What We're Working For – Eastern Monarch Community Goals

- **6 hectares** of overwintering monarchs
- **1.3-1.8 billion milkweed stems**
 - State targets outlined in the [Mid-America Monarch Conservation Strategy](#)
- **7 million acres** restored or enhanced to diverse native plant habitat
- All Hands on Deck



Sources: Midwest Association of Fish and Wildlife Agencies (2018), Pleasants (2017), Thogmartin et al. (2017)
Photo by Wendy Caldwell