Bees in Barrens

3 years of observations from the Northeast US

- 13 Northeast states jointly funded this work to improve management of barrens habitats for rare pollinators
- Participating sites ran transects of bee bowls (24 bowls, 5 m spacing = 120 m long)
- 5 sampling windows (May, June, July, August, September)
- Identification was provided by the USGS and USFWS Bee Inventory and Monitoring Lab (Thanks to Sam Droege and Clare Maffei)

- Do you see opportunities for this dataset?
- What are the best ways to determine which species are truly "rare"?
- Do you know of other barrens specialist bees?

THANKS CLARE
AND SAM!

Across the region, we have found:

255 unique species

181 species that have less than 10 observations in the dataset

16 out of 24 known barrens-associated bees

4 Regional Species of Greatest Conservation Need

Compared to existing records in the Northeast:

[Using the National Bee Distribution Tool by James Weaver, USFWS] 727 species in the Northeast Region

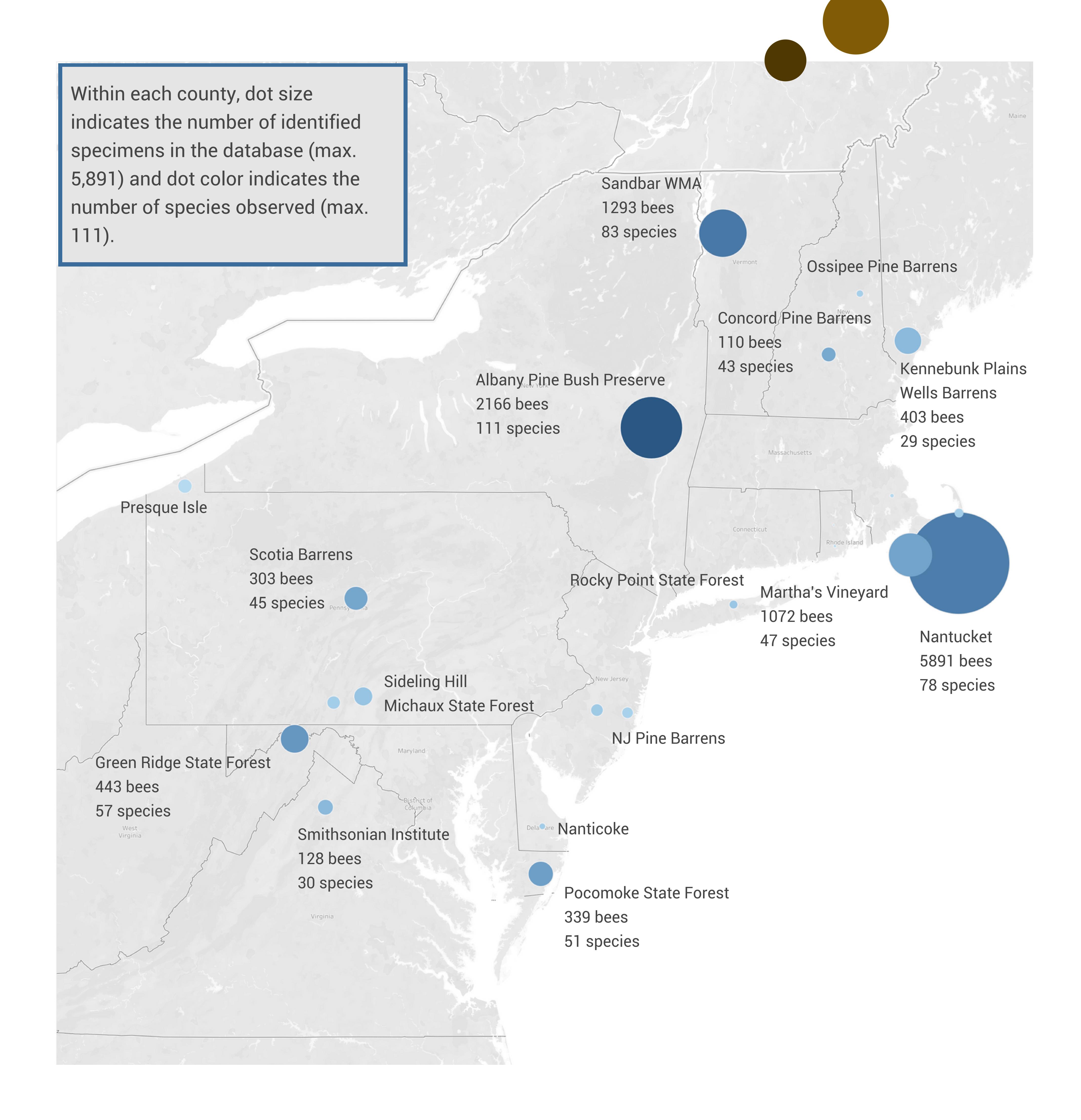
Common species not found (yet): *Melissodes bimaculatus, Lasioglossum illinoense, L. zephyrum, Ptilothrix bombiformis*

Rare species found (to date): Andrena braccata, A. regularis, Perdita bradleyi, Lasioglossum arantium, L. katherineae, L. michiganense, L. sopinci, Nomada armatella, N. bethunei, N. obliterata, N. valida, Colletes solidaginis, Hylaeus pictipes, Sphecodes carolinus, S. galerus, S. pimpinellae, Coelioxys immaculata, Osmia sandhouseae

Dataset limitations

- Bee bowls do not capture bee species at uniform rates
- Sites have different levels of collection effort (number of transects, number of years) information on this poster is not corrected for effort!
- We miss the early season bees

For Rare, Barrens obligate, Bombus, and other species details see handouts



www.northeastbarrens.org/bees

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