

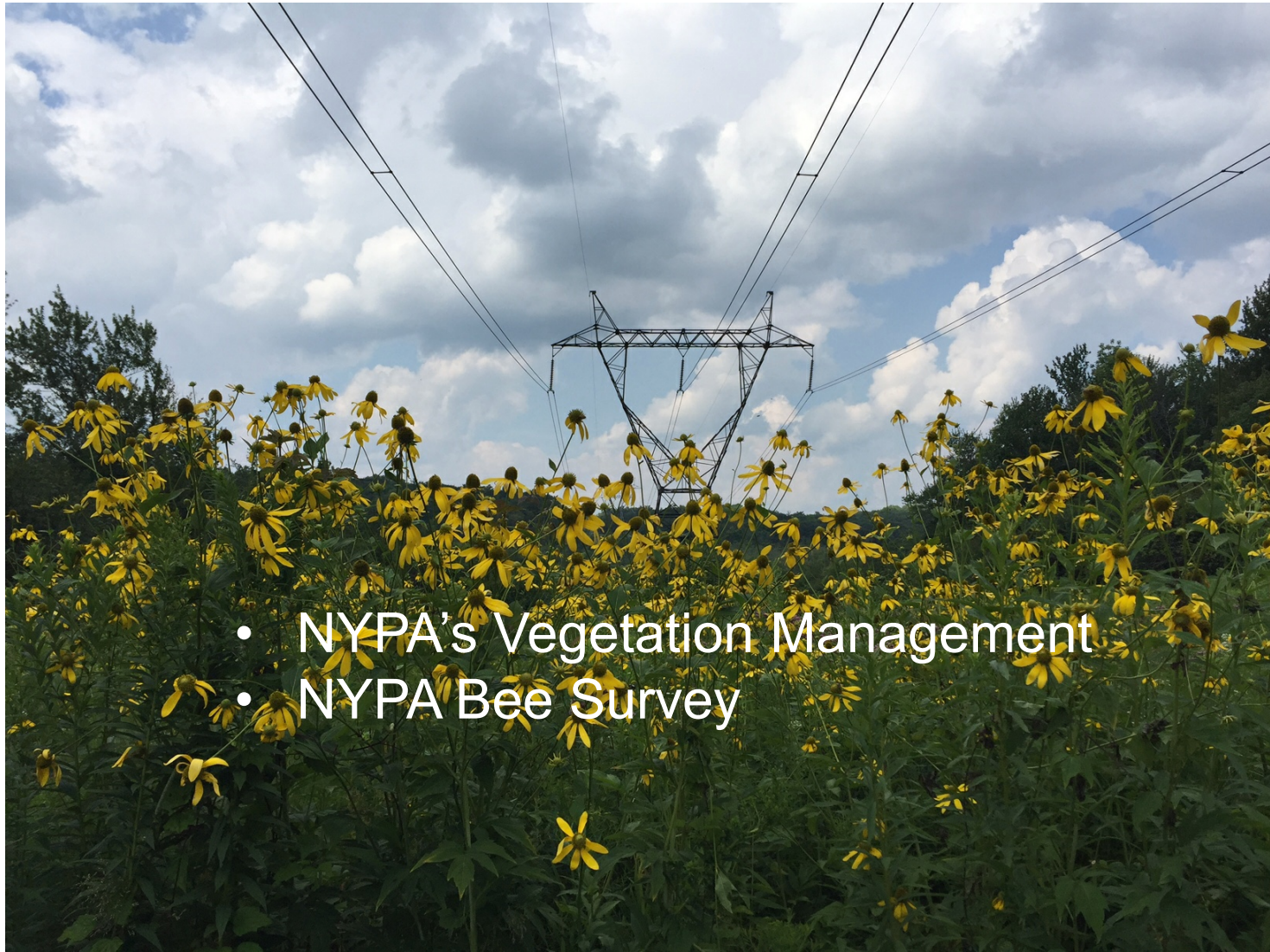


**NY Power
Authority**

New York Power Authority Bee Survey

Lewis Payne – ROW/Environmental Manager

March 7, 2019



- NYPA's Vegetation Management
- NYPA Bee Survey



- America's largest state-owned power organization
- 1,400 circuit miles of transmission lines
- Over 16,000 acres of maintained right-of-way
- 37% NYS HV Transmission 345kv-765kv

Passes through nearly all of the major physiographic areas of New York

- Erie & Ontario Lake Plains
- Allegheny Plateau
- Adirondack highlands
- Catskill Mountains
- Mohawk, Black, St. Lawrence and Hudson River Valleys



Passes near highly populated suburban areas

Buffalo, Rochester, Syracuse,
Albany, Fishkill



Humid, temperate, warm-hot continental climate regimes which broadly support forested vegetation

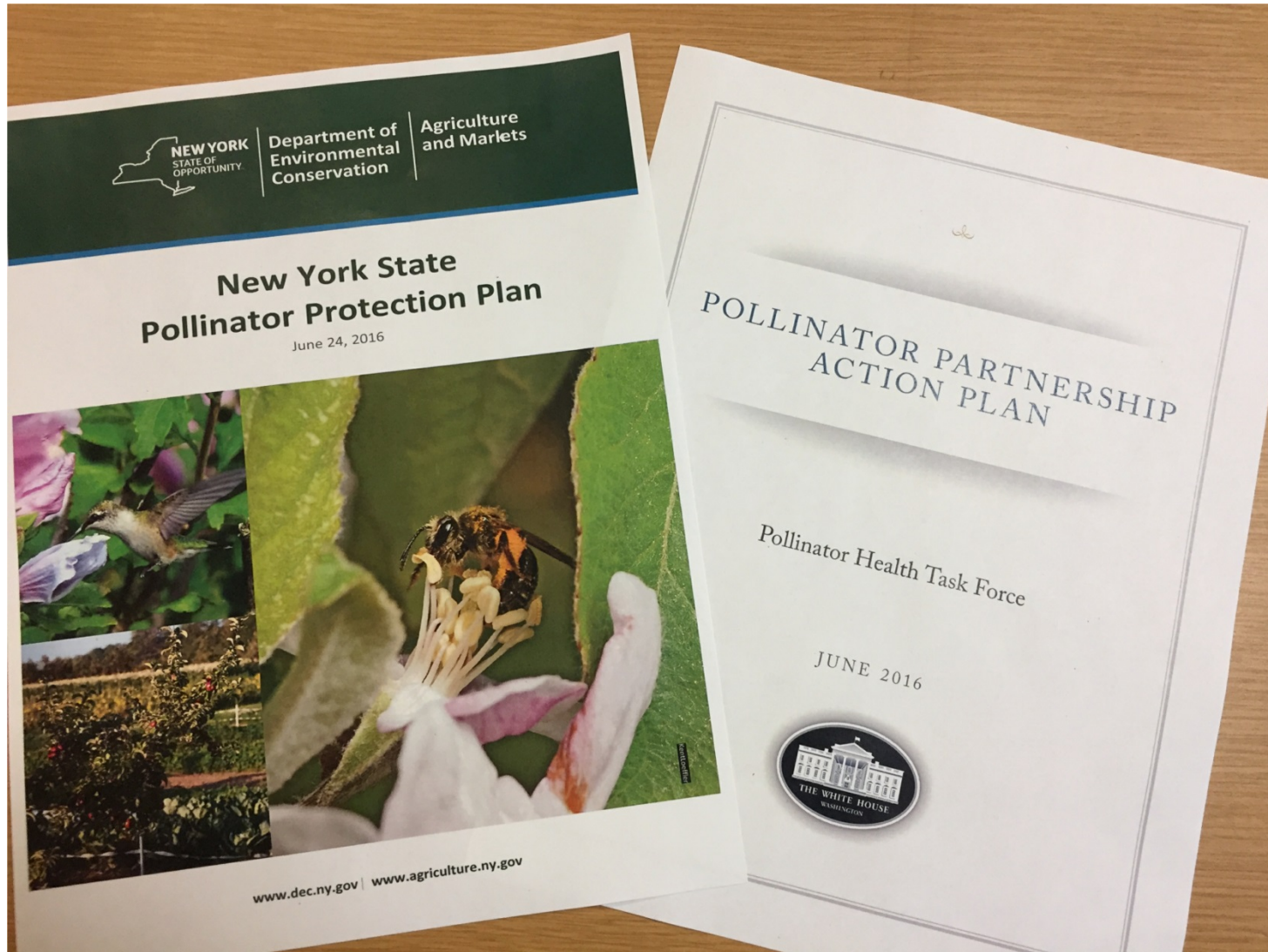
ROW's greater than 85% forested



Vegetation Maintenance Program

- IVM 4-year cycle
Inventory, maintenance, QA/QC, patrols
- ROW Steward Utility
five years-accreditation
- GIS
LiDAR, DatasplICE





Pollinators hit the spotlight on the regulatory side

Habitat Enhancement

- Sustainable landscaping endorsing IVM
- Expanding pollinator habitat on ROWs
- Determine if further opportunities exist
- Encourage pollinator-friendly land management practices along utility lines

Research

- Acknowledge gaps
- Status and distribution of native pollinators



Pollinators on the ROW

- Pollinator Partnership
 - “NYPA’s IVM program is an excellent example of pollinator-friendly ROW management”
- Assess IVM program
- Ensure compliance
- Where can we go from here



**POLLINATOR
PARTNERSHIP**

- 100 yard transects
- Inventory crew
- Training



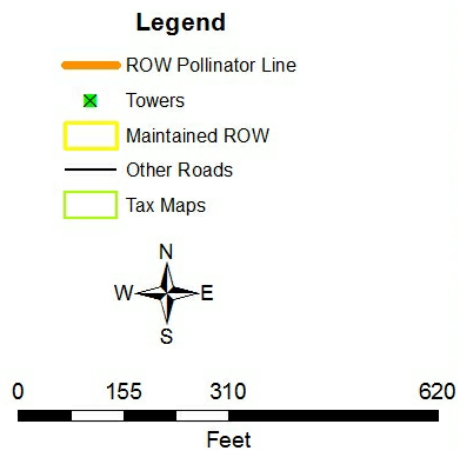
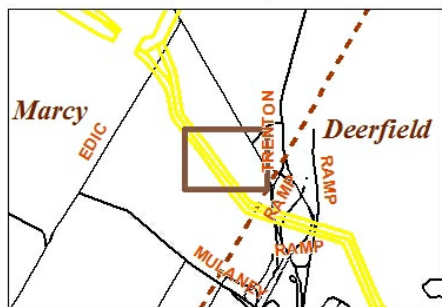
Pollinator Data Collection Form												
Line			Structure #			Location					Date	
Plants in bloom	Honey Bee	Bumble Bee	Mining Bee	Carpenter Bee	Small Carpenter Bee	Sweat Bee	Leafcutter Bee	Mason Bee	Long Horn Bee	Squash Bee	Unknown Large Bee	Unknown Small Bee
				</								



- Stratified random sampling
- 12:00pm – 1:00pm
- 300 foot long X 10 feet wide
- Axis along the length of ROW
- Near the center of ROW as possible
- Site information
- Weather information
- Plant species in bloom
- Bee types
- Representative photo
- Mapped on field computer



***New York Power Authority
EXHIBIT***





Results

- 35 sites
- 267 miles of line
- Average 23 bees/site
- 4% unknown bees
- Honey bees highest
- Bumble bees, sweat bees



A ROW properly managed utilizing IVM with pollinators in mind provides food, cover, shelter and nesting habitat elements for the pollinators



