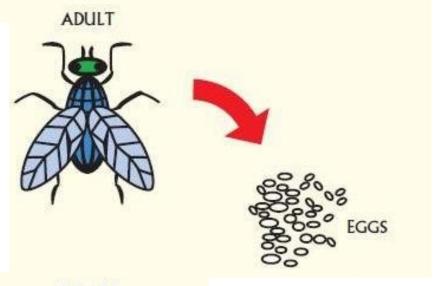


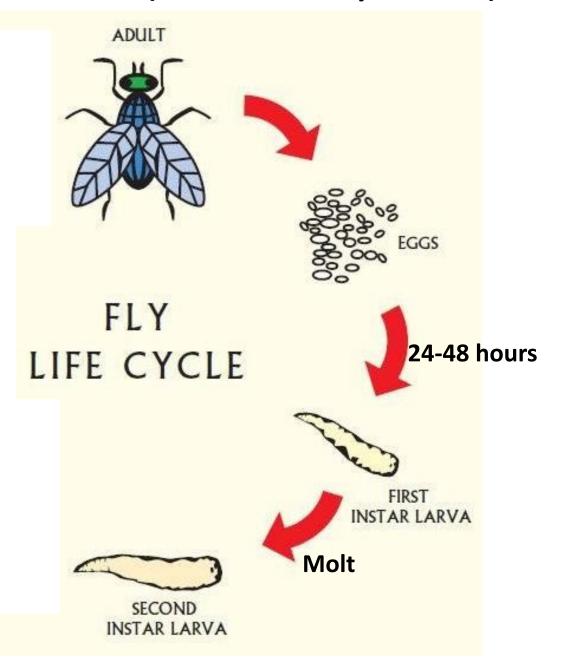
Findings from last year

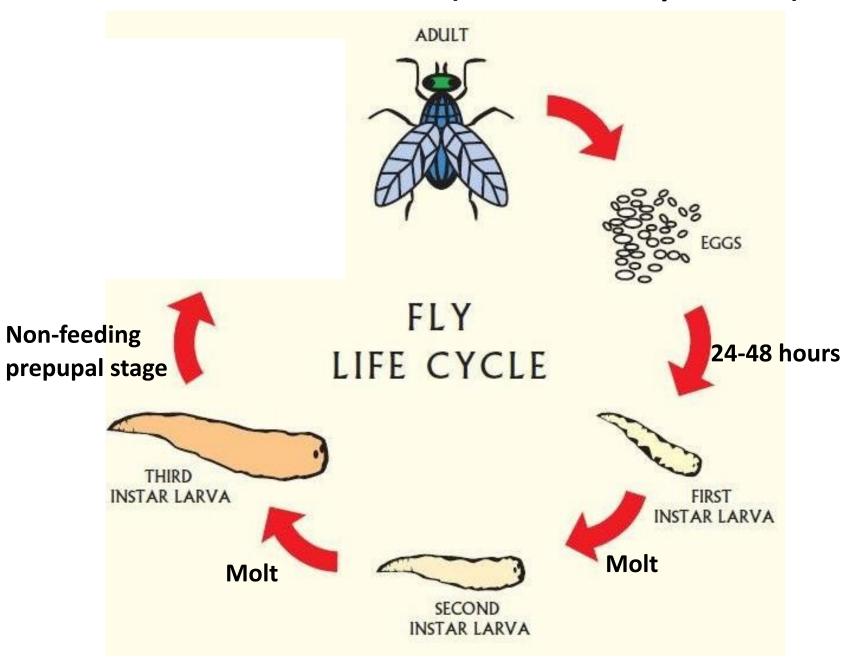
- Nestling found with larvae attached
- 26/38 nests with P. shannoni puparia
- Most severe: DIXI (31),
 MI14 (35), COBR (77)

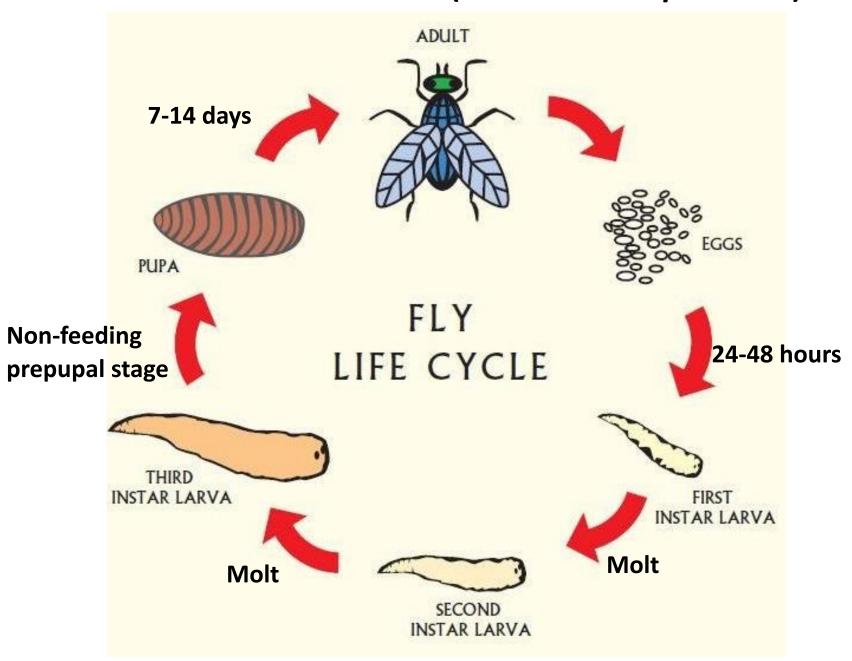




FLY LIFE CYCLE







Protocalliphora shannoni

- Rare in west
- Intermediate stratum and canopy
- Commonly associated with American robins
- Other confirmed hosts:
 - Red-winged blackbird, common grackle, eastern bluebird, gray catbird, jays (blue and gray), thrushes (hermit; Swainson's, wood), sparrows (song and white-throated), cedar waxwing, house wren, yellow-rumped warbler



2016 Field Season

- Learn more about blow fly parasitism of RUBLs
- What makes nests more or less susceptible to severe infestation?
- Is blow fly parasitism decreasing RUBL nest success?
- Is threat of blow fly parasitism increasing with warmer weather patterns?
 - Explosion of other blood-sucking ectoparasites

Our Approach

- 2 nest camera setups
- Monitored nest activity
- Nests collected after fledging and sent for analysis
- Rearing cages set up for 3
 nests that had most severe
 infestations in 2015









Nest Analysis

- •17/25 nests infested
- •6 nests *P. shannoni* only
- •5 nests *P. metallica* only
- •6 nests mixed infestations

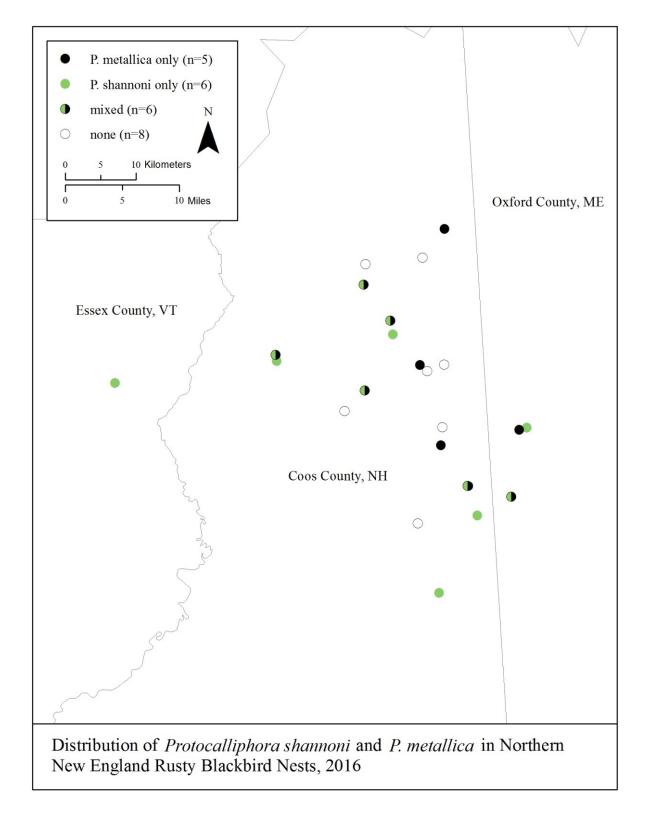
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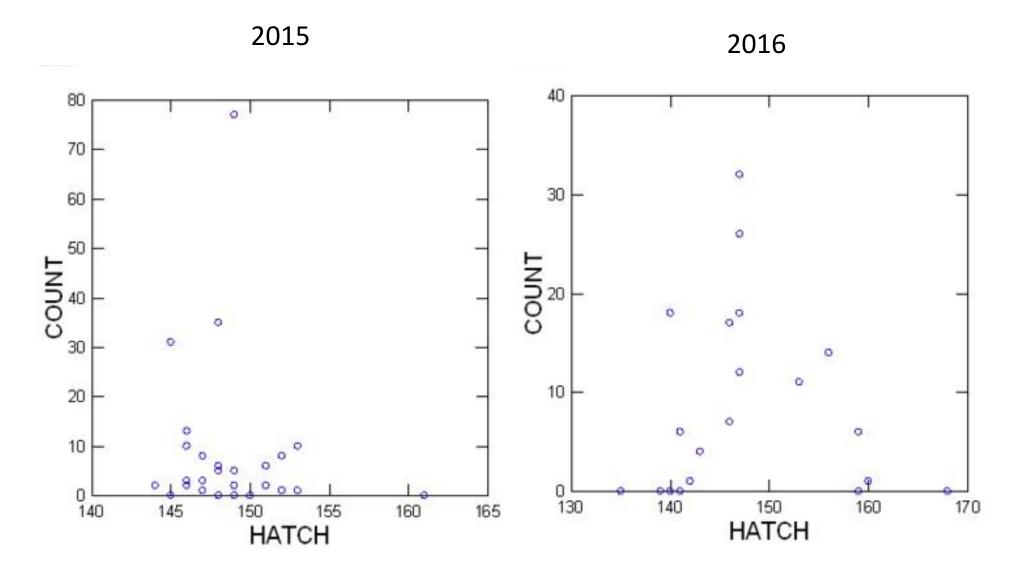
Protocalliphora metallica

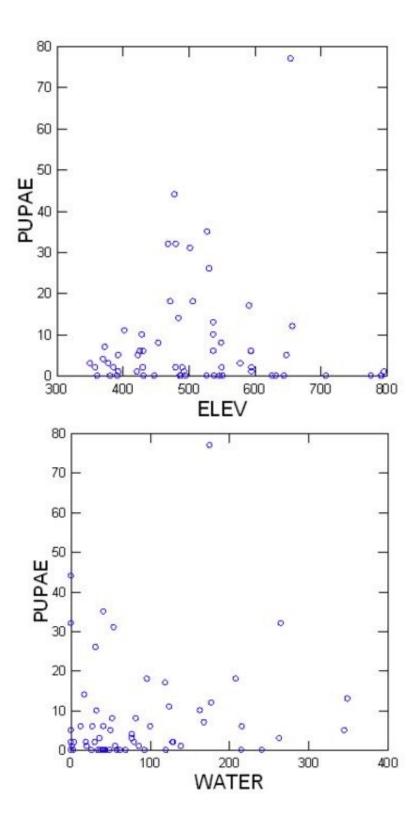
- Ubiquitous
- Frequently occurs in marsh habitats and infests ground-nesters

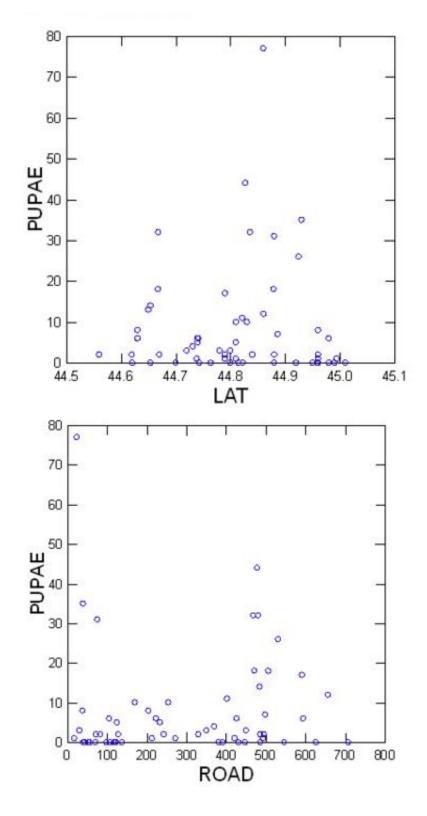


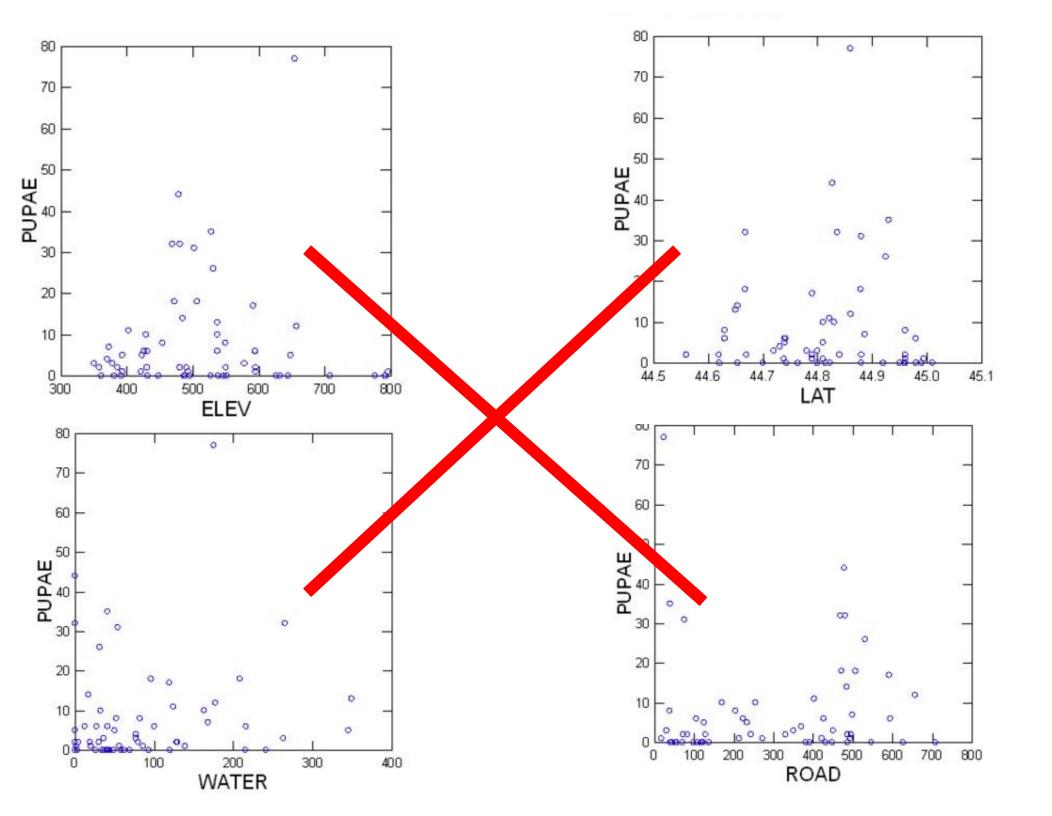
Possible correlations

- What makes nests more or less susceptible to blow fly infestation?
 - Nestling hatch date
 - Nest elevation
 - Nest latitude
 - Proximity to water sources
 - Proximity to roads











Continue nest collection

Better-quality nest footage

Nestling telemetry

Anemia testing





Thank you!

- Carol Foss
- Terry Whitworth
- Peter Mason
- The 2016 RUBL field season team: Patti Wohner, Shannon Luepold, Cassandra LaVoie, Katrina Fenton and Grace Mitchum





