



Parks and Road Services

Edmonton

Biological Pest Control Measures, Communications and Education Strategy

June 13, 2022

Community and Public Services Committee

Introduction



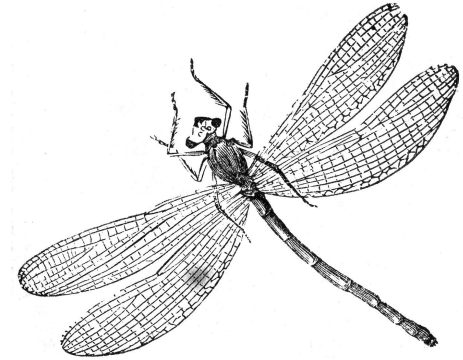
**Please click ad to play -
video is linked**

Edmonton

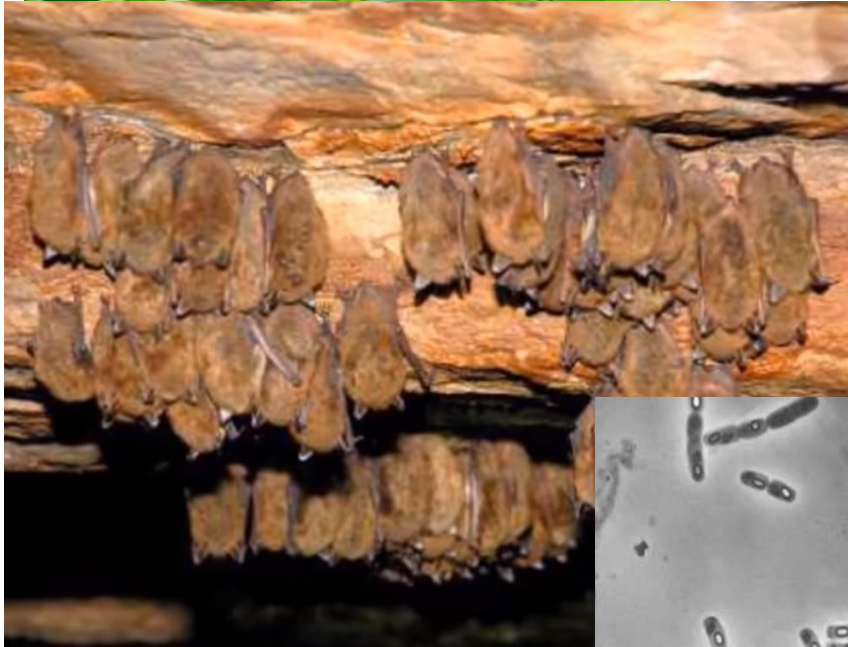
Introduction



Biological vs Natural Controls



Consideration for Biological Controls

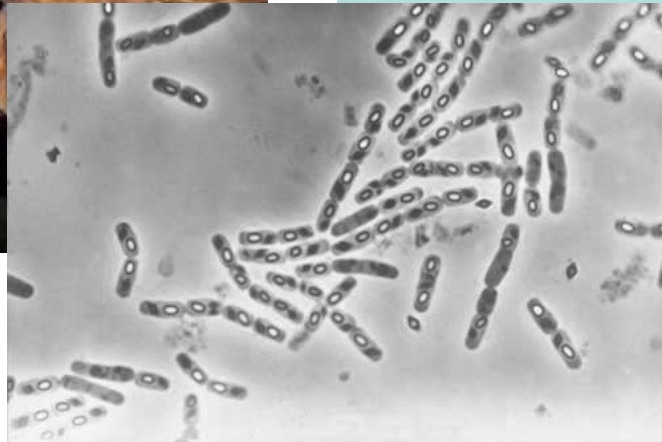


Little brown bat roosting

Bacillus thuringiensis israelensis (Bti)



Mosquitofish
& mosquito
larvae



Alternative Biological Controls



Identifying potential mosquito development sites for mitigation



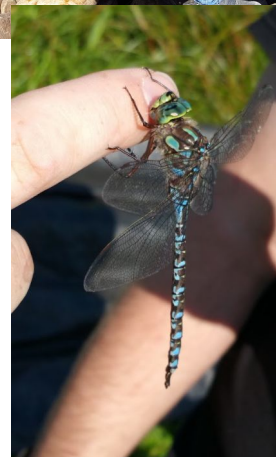
Example of a free-standing bat box



Enhanced Monitoring of Mosquitoes and Biodiversity



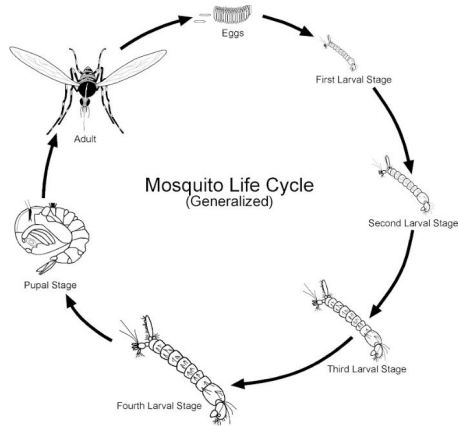
Adult and larvae
monitoring



Biodiversity
monitoring



Enhanced Communications and Education



Note:
Each larval stage is larger than the previous.
Larval and pupal stages are aquatic.



Educating citizens about mosquitoes and development sites

Program Highlights and Next Steps

- **Monitoring & Surveillance**
 - Increase trapping and monitoring activities
 - Develop population monitoring protocols for existing natural control populations (eg. dragonflies)
- **Biological Control Activities**
 - Research biological control options (e.g bat boxes)
 - Identify potential mosquito development sites using GIS and lidar-based technologies
 - Ground confirmation and mitigation of development sites (known as source reduction)
- **Communications and education materials, videos and event displays**
- **Public Feedback Survey & Program Evaluation (Q3-Q4)**