**Survey Questions:**

Tick/Lyme Questions:

1. While working outdoors, do you notice ticks on your body?

a) no (0) b) yes, sporadically (1.5) c) yes, frequently (3)

2. Are ticks present at your work site?

a) Yes (3) b) No (0) c) Don't know (1.5)

3. If yes, how many ticks do you notice on your body during one work shift?

a) None (0) b) 1-3 ticks (1) c) 4-6 ticks (2) d) more than 6 ticks (3)

4. Have you ever been bitten by a tick at work?

a) Yes (3) b) Unsure (1.5) c) No (0)

5. How do you remove ticks from your body?

◻Spray with repellent or sanitizer (3) ◻Tweezers (1) ◻ Remove by hand (3) ◻Unsure (2) ◻Other method (2)

-if multiple methods, use mean (e.g., tweezers, other method = 1.5)

6. What preventative measures do you use to avoid ticks?

◻ Bug repellent (-0.5) ◻Long socks (-0.5) ◻Body checks/survey (-0.5) ◻Layers (-0.5) ◻ None (3), start at 3, minus 0.5 for each method

7. How do people get infected with Lyme disease?

◻Unsure (1.5) ◻ Contact with animals (2) ◻ Contact with vegetation (2) ◻tick bites (0) ◻ mosquito bites (2) \*if they guessed 2+ wrong (3)

-if multiple answers, and 1.5 is correct, use mean

8. What are some symptoms of Lyme disease?

◻Unsure (2) ◻ Headaches (0) ◻Sore throat (2) ◻Fatigue (0) ◻Sneezing (2) ◻Fever (0) ◻Itchiness (2) \*if they guessed both sore throat and sneezing or only one of those two options (3)

-if they guess headaches, fatigue, and fever (0)

-if they guess only two of above (1)

-if they guess all 3 but with unsure as well, (1)

-if they guess only one of the above (1.5)

-if they include one wrong answer with 1 correct answer (2)

-if they include one wrong answer with correct answers (1.5)

-if they include 2 or more wrong answer with correct answers (3)

-if they include only one wrong answer (no other answers; 3)

-if they guess unsure and correct answer 1

-if they guess correct, incorrect, and unsure (1.5)

-if they guessed unsure solely, +2, if they guess it with a correct answer, +0.5, if they guess it with an incorrect answer, 3

9. Do you feel safe regarding Lyme disease while at work?

a) Yes (0) b) Sometimes (2) c) No (3)

Impact scores based on tick and Lyme disease knowledge questions

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Action | No Risk (0) | Low Risk (1) | Med Risk (2) | High Risk (3) | Score |
| Ticks on body |  |  |  |  |  |
| Ticks on site |  |  |  |  |  |
| # Of ticks |  |  |  |  |  |
| Tick bites? |  |  |  |  |  |
| Tick removal |  |  |  |  |  |
| Tick prevention |  |  |  |  |  |
| LD infection |  |  |  |  |  |
| LD symptoms |  |  |  |  |  |
| Safety |  |  |  |  |  |
| Total | | | | |  |

Impact and likelihood scoring table. For map, each cell of map will be based on this matrix, based on Pascarella et al., 2021. So based on individuals’ scores (or mean score if same location; IMPACT) as well as the locality of where they work (LIKELIHOOD), cell colour will be determined.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **LIKELIHOOD**  **(Based on tick establishment area)** | | **IMPACT** | | |
| **Low Risk** | **Med Risk** | **High Risk** |
| **Slight risk of *Bb* infection** | **Moderate risk of *Bb* infection** | **Severe risk of *Bb* infection** |
| **1-9** | **10-18** | **19-27** |
| **No tick population established** | **0-19%** | **Very Low** | **Low** | **Moderate** |
| **Newly establishing tick population** | **20-39%** | **Low** | **Moderate** | **Moderate** |
| **Low density established tick population** | **40-59%** | **Moderate** | **Moderate** | **Moderate** |
| **Med density established tick population** | **60-79%** | **Moderate** | **Moderate** | **High** |
| **High density established tick population** | **+80%** | **Moderate** | **High** | **Very High** |