

## Ticks and Mosquitoes

Outdoor workers may be exposed to vector-borne diseases due to bites from infected ticks and mosquitoes. Ticks and mosquitoes may carry bacteria, parasites, or viruses. One of the most common tick-borne diseases in the U.S. is Lyme disease. Ticks are found in wooded areas, high grass, or leaf litter. They are most active during the spring, summer, and fall and during dawn and dusk. In warmer regions, they may be active all year round. One of the most common diseases carried by mosquitoes in the U.S. is West Nile virus infection. Mosquitoes may be found near standing water or in weedy or wooded areas.

### Symptoms of Vector-borne Diseases:

- Body/muscle aches
- Headaches
- Joint pain
- Stiff neck
- Fever
- Fatigue
- Rash
- Paralysis

### Workplace Controls

#### Decrease tick populations:

- Remove leaf litter
- Remove, mow, or cut back tall grass and brush
- Discourage deer activity

#### Eliminate standing water to decrease mosquito populations:

- Remove, turn over, cover, or store equipment
- Remove debris from ditches
- Fill in areas that collect standing water
- Place drain holes in containers that collect water and cannot be discarded

### Protect Yourself

- Wear a hat and light-colored clothing (so ticks can be easily spotted), including long-sleeved shirts and long pants tucked into boots or socks
- Use insect repellents
  - Use repellents containing 20–50% DEET on exposed skin and clothing
  - Reapply repellents as needed (always follow product labels)
- Use insecticides such as permethrin for greater protection
  - Permethrin can be used on clothing but not on skin
  - One application to pants, socks, and shoes may be effective through several washes
- Check skin and clothing for ticks daily. Check hair, underarms, and groin
- Immediately remove ticks using fine-tipped tweezers
  - Grasp the tick firmly, as close to your skin as possible
  - Pull the tick's body away from your skin with a steady motion
- Clean the area with soap and water
- Wash and dry work clothes using the "hot" settings to kill ticks
- If you develop symptoms of vector-borne disease, seek medical attention promptly. Tell your doctor that you work outdoors and report any ticks or mosquito bites.