

## *Anopheles quadrimaculatus* s.l.

**OVERWINTERING STAGE:** Adult female.

**PHENOLOGY:** Multivoltine.

These mosquitoes overwinter as adult females in caves, animal burrows, hollow trees, root cellars, bank barns, abandoned buildings, tunnels, spring houses and other protected places. They prefer cool, dark areas with high humidity.

### **LARVAL HABITAT:**

Larval habitat depends on the sibling species, but the species known to live in Pennsylvania can be found in a wide variety of habitats including wetlands, ponds, puddles, retention ponds, ditches and stream edges.

### **HOST PREFERENCES:**

Females prefer large mammals including humans, domestic and wild animals including livestock, white-tailed deer and horses.

### **VIRUS TESTING RESULTS:**

Virus	# specimens tested	# pools tested	# positive pools	MIR
WNV	5,926	516	0	0
EEE	148	16	0	0
La Crosse	0	0	0	0

### **COMMENTS:**

When malaria was prevalent in the United States, this species served as a competent vector and can do so again if malaria reappears, particularly in the southeastern U.S. *An. quadrimaculatus* s.l. is actually a complex of 5 sibling species as follows: *An. diluvialis*, *An. inundatus*, *An. maverlius*, *An. smaragdinus*, and *An. quadrimaculatus* s.s. The only species that is known to occur in Pennsylvania is *An. quadrimaculatus* s.s. This species is the second most common *Anopheles* in PA after *An. punctipennis*. Females are readily collected throughout the winter months in their typical overwintering sites.

### **Distribution**

