



# **Wounded, Ill, and Injured 141C Project Navy Entomology Center of Excellence**

## **Leaders in Preventing Disease Transmission**

The negative effects on human health from biting insects and the diseases they carry present dangerous risks to the nation's warriors. Protection of deployed ground forces from disease carrying insects requires the immediate, safe, and effective use of fast-acting insecticides and repellants. The Navy Entomology Center of Excellence (NECE) supports ongoing programs that develop insecticides, repellants, and application technologies and is the only center of excellence in the world for public-health insecticide application technology development. NECE WII Project provides a direct, positive impact on deployed warfighters through new discoveries of safe chemistries, application techniques, and tools to better protect deployed warfighters from the persistent threat of blood-feeding insects and the diseases they carry.

## **Vector and Disease Control**

NECE collaborated on 20 major projects with 24 scientists from federal agencies, academia and industry. The team screened 909 insecticide compounds for efficacy against medically-important insects and field tested 22 new insecticide application machines and 7 new insecticide application techniques. This collaboration resulted in new compounds and application methodologies that increase the protection for Sailors and Marines from harmful insects and resulting vector-borne diseases.

## **Research and Development**

The WII 141C Project processed four patent applications to gain intellectual property rights for the scientific discovery of unique and effective ways to control disease-carrying insects. They also disseminated WII-supported research and development efforts through multiple media venues including technical bulletins, peer-reviewed journal articles, website publications, and a mobile phone application. The reports are printed, distributed, and posted on military and professional websites for use by deployed entomologists and technicians world-wide to better protect troops from insects that carry diseases.

### **Where to go for help**

To learn more about the WII 141C Project, visit:

[www.med.navy.mil/sites/nmcphc/wounded-ill-and-injured](http://www.med.navy.mil/sites/nmcphc/wounded-ill-and-injured)