# WHAT ARE TICKS?

Ticks are small, spider-like creatures that feed by attaching to animals and sucking blood.



TICKS ARE SMALL!



Western black-legged tick Ixodes pacificus



**Pacific coast tick** Dermacentor occidentalis

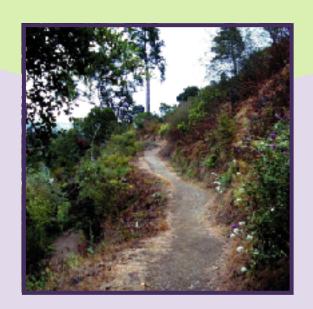


COMMON **HUMAN-BITING** TICKS IN CALIFORNIA

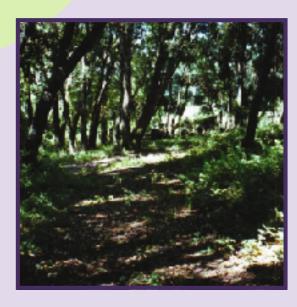


# WHERE ARE TICKS FOUND IN **CALIFORNIA?**

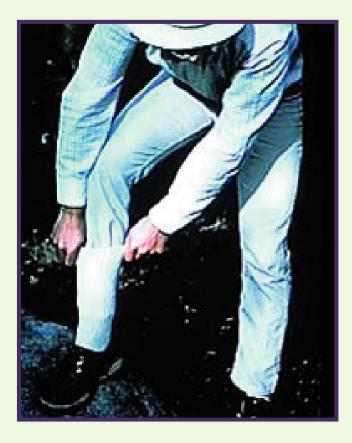
Ticks are found in natural areas that have grasses, shrubs, or leaf litter under trees.



Uphill side of trails



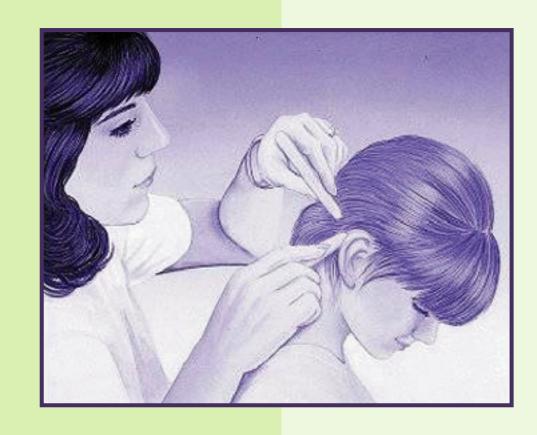
**Mixed hardwood forests** 



### PERSONAL PROTECTIVE MEASURES

- Avoid tick-infested areas
- Wear light-colored clothing
- Wear a hat, long sleeved shirt, and long pants
- Tuck shirt into pants, pants into boots or socks
- Use effective tick repellents
- Check yourself, children (especially at hair line), and pets regularly while in tick habitat
- Conduct daily full body check (hair line, armpit, back of knees, groin) at home, up to 3 days after returning from tick habitat
- Remove attached ticks promptly and properly





# TICK-BORNE **AND TICK BITE** PREVENTION

Magnified mouth parts of an *Ixodes* tick



Leaf litter



On logs and fallen branches





#### **TICK REPELLENTS**



- Apply DEET repellent (Cutter<sup>®</sup>, Off<sup>®</sup>, Repel<sup>®</sup>, Skintastic<sup>®</sup>, etc...) to skin that is not covered by clothing
- Treat clothing with permethrin repellent (Permonone<sup>®</sup>, Duranon<sup>®</sup>, etc...) as directed on label.

# WHAT DO I DO **IF I'VE BEEN BITTEN BYATICK?**

- Promptly remove tick If you develop any symptoms **1-30 days after bite, consult** with your physician
- **Let your physician know that** you were bitten by a tick

Prevention of tick bites is key to prevention of disease

For more information, contact the Vector-Borne Disease Section: 916-552-9730 http://www.dhs.ca.gov/ps/dcdc/disb/disbindex.htm

# California Department of Health Services **Vector-Borne Disease Section**



- Lyme disease
- Ehrlichiosis
- Anaplasmosis
- Babesiosis
- Rocky Mountain spotted fever
- **Tularemia**
- Tick paralysis



#### LYME DISEASE IS THE MOST **COMMON TICK-BORNE DISEASE IN CALIFORNIA**

*Ixodes pacificus* ticks get the Lyme disease bacteria from infected rodents. Humans get Lyme disease from the bite of an infected *Ixodes pacificus* tick.

### SIGNS AND SYMPTOMS OF LYME DISEASE

### **Erythema migrans**

- Expanding rash 1-30 days following tick bite
- Rarely itching or painful May be confused with allergic reaction to tick bite
- Allergic reactions occur 1-24 hours after bite and do not spread

#### **Flu-like symptoms**

- **Fever**, chills, fatigue
- Muscle aches, joint pain
- Headache
- Nervous system problems
- Weakness of some muscles in the face **Numbness, tingli**ng, or pain in the arms and legs
- Heart problems
- **Disturbances in the heart rhythm Muscle and sk**eletal symptoms
- Arthritis in one or few joints

- Use tweezers to grab the tick close to your skin
- Pull the tick firmly, straight out, away from the skin (do not jerk, twist, or burn the tick)
- Wash your hands and the bite site with soap and water after the tick is removed and apply an antiseptic to the bite site

#### **TICK REMOVAL** TECHNIQUE



The sooner a tick is removed, the less likely it is for a person to become infected.