

## UNIT LESSON PLAN

### RX-310, INTRODUCTION TO FIRE EFFECTS

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**INSTRUCTOR:** Mark Swartz

**LESSON:** Fire Effects and Resource Management

**UNIT:** Unit # 3D - Invertebrates

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#### OBJECTIVES:

Upon completion of this lesson, participants will be able to:

1. Describe the interrelationships of fire regimes and invertebrate communities
2. Discuss appropriate management practices for modifying first order fire effects on invertebrate communities
3. Identify key attributes of invertebrate communities to evaluate the first order fire effects on invertebrate communities.

#### NARRATIVE:

- I. Unit overview and introduction
- II. Invertebrates - An Overview
  - a. Classification
  - b. Characteristics
  - c. Ecological Interactions
  - d. Fire Effects and Invertebrates
- III. Insects as Pests
  - a. Defoliators
  - b. Wood Feeders
  - c. Fluid Feeders
  - d. Management Practices
  - c. Gypsy Moth
  - d. HWA
  - c. EAB
  - d. Spotted Lantern Fly

- e. Pest Complex
- f. Stinging Insects
- IV. Insect T&E
  - a. Background
  - b. Regal Fritillary
  - c. Management Strategies
  - d. Monitoring
  - e. Rxfire Rotation
- V. Questions