

Burrowing Shrimp Research Funding Priorities, 2009/2010

Tier One Priorities (should be considered first for funding in the 2009/2010; an EUP is currently under consideration for larger areas. This call will consider proposals that require this EUP to be approved.):

- ❖ IR4 trials – granular @ 0.5 lb a.i./ac and flowable 2F @ 1.0 and 2.0 lb a.i./ac
 - Lab analysis
 - QA
 - Dry lab analysis
 - Project management
- ❖ Design and implementation of commercial-scale field trials of imidacloprid for shrimp control to meet requirements for federal registration and state permitting
 - Coordinate with federal and state agencies for registration and permitting requirements
 - Develop and Submit State and Federal EUP applications
 - Experimental Design of trials, including timing to Sevin applications
 - Efficacy Assessments
- ❖ Continue to assess factors affecting field efficacy
 - Eelgrass, sediment type, time of year, bed elevation and water level
- ❖ Fate & Transport of imidacloprid in the water column following commercial applications.
- ❖ Liaison with EPA-Environmental Fates and Effects Division (EFED) and coordinate potential additional requirements to support higher rate and formulation change. (e.g. run standard models for fate & transport (e.g., PRZM, others)
 - Anaerobic Sediment Metabolism Study
- ❖ Define the Sediment Impact Zone (SIZ) related to imidacloprid treatments according to specific criteria agreed upon with DOE (e.g., Non-target impact on benthic invertebrates, chemical persistence in sediments)
- ❖ Assess non-target impact to salmonids and sturgeon
- ❖ Assess non-target impact on crab
 - laboratory and small scale arena studies
 - Field population studies
- ❖ Ancillary Risk Assessments
 - Human Health
 - Key Aquatic Invertebrates

Tier Two Priorities (should be considered for funding in 2009/2010 funding cycle):

Monitoring Larval Stages of Burrowing Shrimp and Associated Water Quality Variables that Relate to Survival and Colonization in Willapa Bay.