

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE  
Office of Agricultural Resilience and Sustainability

## **ADAPTIVE IPM FOR INVASIVE AGRICULTURAL PESTS**

### **REQUEST FOR PROPOSALS (RFP)**

Release date: July 6, 2026

**Grant Proposals Due Date:** August 31, 2026

Late grant proposals will not be accepted

<https://www.cdfa.ca.gov/oars/opca/adaptive-ipm.html>

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## About the program

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The California Department of Food and Agriculture's (CDFA) Office of Pesticide Consultation and Analysis (OPCA) is now accepting applications for the Adaptive IPM for Invasive Agricultural Pests grant program. The purpose of this Request for Proposals (RFP) is to develop integrated pest management (IPM) program(s) or components that can be rapidly implemented when new invasive agricultural pests arrive and become established in California or when recently arrived invasive pests resurge or expand their range or host species. The program also supports research to refine and optimize existing IPM strategies to improve their effectiveness or exploring additional control measures against established invasive pests that drive extensive pesticide use but remain uncontrolled due to developed pesticide resistance.

A total of \$500,000 for one award is available in this grant cycle. Funds for the current RFP come from a General Fund appropriation.

### Background

California's diverse agriculture, producing over 400 commodities, faces a constant threat from invasive pests. While exclusion or eradication of new invasive pests are the preferred first lines of defense, some pests become established and require long-term management strategies. These new pests pose a significant challenge for growers, often leading to increased reliance on insecticides. Increased use of broad-spectrum insecticides can disrupt integrated pest management systems, creating secondary pest outbreaks, and potentially decreasing profits. At the same time, growers are under pressure from ever-tightening regulations and need to adopt new more sustainable pest management methods to remain competitive.

CDFA safeguards the state's agricultural industry by preventing the establishment of invasive pests and mitigating their impact. Global travel and inadvertent introductions often bring these pests into urban areas first. To prevent their spread to agricultural regions, CDFA proactively controls pest outbreaks in urban environments. However, due to growing concerns in affected communities about the health and environmental impacts of insecticide use, exploring alternative solutions is essential.

CDFA uses pest management efforts based on IPM, a comprehensive approach that includes biological control, selective or low-risk chemicals, biopesticides, cultural control, life history analysis to target vulnerable developmental stages, and monitoring pest populations. Classical biological control is a valuable tool against invasive species; however, the significant time required for biological agent discovery, evaluation, permitting, and release can allow invasive pest populations to become widespread. Recognizing this challenge, CDFA initially implemented the Proactive IPM Solutions program (2019-2024) to proactively identify potential invasive pests in California and create long-term IPM strategies for swift implementation upon the pest's arrival. Building on this foundation, the program has evolved into the Adaptive IPM for Invasive Agricultural Pests to reflect a more adaptive and inclusive approach that now also addresses

newly arrived or locally established invasive agricultural pests to prevent their resurgence and further spread. Furthermore, the Adaptive IPM program supports research focused on enhancing existing IPM strategies and exploring new control measures for established invasive pests that have developed pesticide resistance and contribute to significant pesticide use.

## Research Requirements and Priorities

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This program funds projects that meet one of the following objectives:

1. Develop IPM program(s) or components that can be rapidly implemented if a new invasive agricultural pest arrives in California and becomes established. For these pests, it is a priority to first utilize and adapt existing knowledge and technology that may exist outside of California. Additionally, the focus is on targets suitable for long-term IPM control. Pests that are typically successfully eradicated, such as certain fruit flies, will not be considered.
2. Develop or improve IPM program(s) or components for invasive agricultural pests that have recently arrived undetected and have been established locally, and resurged or expanded their range/hosts in California.
3. Refine or optimize existing IPM program(s) to enhance their effectiveness against established invasive agricultural pests that drive extensive pesticide use, yet remain uncontrolled due to developed pesticide resistance.

For Objective 1, the pest must be selected from the CDFA target pest list (Table 1); for Objective 2, priority will be given to pests from this same list. Proposals must describe the proposed IPM project, define the problem, and justify the selection of the target pest based on its potential impact on California. Additionally, the proposals must explain the project's alignment with program goals, summarize relevant research, and include a detailed workplan, team commitments, and budget justification.

Proposals may include any number of IPM components, including a single aspect of an IPM system. Projects with biological control components should detail a plan to collect data necessary to obtain a release permit and describe the process to obtain it. The focus of the research should be on long-term control of the invasive pest that minimizes disruption of urban communities and existing agricultural IPM systems. For example, it would be preferable to prioritize selective, low-risk chemicals, biological chemistries, cultural control, and biological control. Proposals should consider the availability of products not registered in California and potential remedies.

Table 1: CDFA Target Pest List

Scientific name	Common name
<i>Acalitus phloeocoptes</i>	
<i>Acleris comariana</i>	Strawberry tortrix
<i>Acutaspis albopicta</i>	Albopicta scale
<i>Agonoscena pistaciae</i>	Pistachio psyllid
<i>Agrilus planipennis</i>	Emerald ash borer
<i>Aleurocanthus woglumi</i>	Citrus blackfly
<i>Amrasca biguttula</i>	Two-spotted cotton leafhopper (Cotton jassid)
<i>Anoplophora chinensis</i>	Citrus longhorned beetle
<i>Anoplophora glabripennis</i>	Asian longhorned beetle
<i>Anthonomus rubi</i>	Strawberry blossom weevil
<i>Anthonomus signatus</i>	Strawberry bud weevil
<i>Aonidiella orientalis</i>	Oriental scale
<i>Argyrotaenia ljungiana</i>	Grape tortrix moth
<i>Bursaphelenchus xylophilus</i>	Pine wilt nematode
Ca. <i>Liberibacter asiaticus</i>	Huanglongbing
Ca. <i>Phytoplasma aculeata</i>	Lethal bronzing
Ca. <i>Phytoplasma palmae</i>	Lethal yellowing
<i>Capnodis carbonaria</i>	
<i>Cerambyx dux</i>	
<i>Clavaspis perseae</i>	Armored scale
<i>Conotrachelus nenuphar</i>	Plum curculio
<i>Contarinia nasturtii</i>	Swede midge
<i>Cryptoblabes gnidiella</i>	Honeydew moth
<i>Curculio caryae</i>	Pecan weevil
<i>Cydalima perspectalis</i>	Box tree moth
<i>Davidsonaspis aguacatae</i>	Armored scale
<i>Deudorix livia</i>	Pomegranate butterfly
<i>Diaphorina citri</i>	Asian citrus psyllid
<i>Elsinoe australis</i>	Sweet orange scab
<i>Elsinoe perseae</i>	Avocado scab
<i>Erschoviella musculana</i>	
<i>Eupoecilia ambiguella</i>	European grape berry moth
<i>Eurytoma amygdali</i>	
<i>Harrisina americana</i>	Grapeleaf skeletonizer
<i>Heilipus</i> spp.	Avocado seed weevils
<i>Helicoverpa armigera</i>	Old World bollworm
<i>Lobesia botrana</i>	European grapevine moth
<i>Lycorma delicatula</i>	Spotted lanternfly
<i>Lymantria dispar</i>	Spongy moth
<i>Meloidogyne enterolobii</i>	Guava root-knot nematode
<i>Monosteira unicostata</i>	
<i>Oebalus pugnax</i>	Rice stink bug
<i>Oncometopia nigricans</i>	Florida sharpshooter
<i>Oncometopia orbona</i>	Broad headed sharpshooter
<i>Oryctes rhinoceros</i>	Coconut rhinoceros beetle

Scientific name	Common name
<i>Osphranteria coerulescens</i>	
<i>Ostrinia nubilalis</i>	European corn borer
<i>Paralobesia viteana</i>	Grape berry moth
<i>Parlatoria blanchardi</i>	Parlatoria date scale
<i>Parlatoria ziziphi</i>	Black citrus scale
<i>Paysandisia archon</i>	South American palm borer
<i>Phthorimaea absoluta</i>	Tomato leafminer
<i>Phymatotrichopsis omnivora</i>	Cotton root rot
<i>Phytomyza gymnostoma</i>	Allium leafminer
<i>Phytophthora ramorum</i>	Ramorum blight
<i>Pinnaspis strachani</i>	Armored scale
Plum pox virus (PPV)	Sharka
Potato spindle tuber viroid (PSTVD)	
<i>Prays oleae</i>	Olive moth
<i>Puccinia horiana</i>	Chrysanthemum white rust
<i>Radopholus similis</i>	Burrowing nematode
<i>Raffaelea lauricola</i>	Laurel wilt
<i>Resseliella citrifrugis</i>	Gall midge
<i>Rhynchophorus palmarum</i>	South American Palm Weevil
<i>Rotylenchulus reniformis</i>	Reniform nematode
<i>Schizotetranychus smirnovi</i>	
<i>Scolytus amygdali</i>	
<i>Stenoma catenifer</i>	Avocado seed moth
<i>Thaumatotibia leucotreta</i>	False codling moth
<i>Tilletia indica</i>	Karnal bunt
Tomato brown rugose fruit virus (TBRFV)	
<i>Toxoptera citricida</i>	Brown citrus aphid
<i>Trioza</i> spp.	Avocado leaf-galling psyllids
<i>Tropilaelaps</i> spp.	
<i>Xanthomonas citri</i>	Citrus canker
<i>Xyleborus glabratus</i>	Red bay ambrosia beetle
<i>Xylella fastidiosa</i> subsp. <i>fastidiosa</i>	Pierce's disease
<i>Xylella fastidiosa</i> subsp. <i>pauca</i>	Olive quick decline Syndrome/Citrus variegated chlorosis
<i>Zeuzera pyrina</i>	Leopard moth

## Funding and Grant Term

CDFA will select proposals based on the criteria presented below in the **Evaluation Criteria** section. A tentative timeline is available [here](#). Projects should start on January 1, 2027, and end on or before January 31, 2030. Maximum funding is \$500,000. Applicants may submit for the full amount or anything less. CDFA encourages but does not require matching funds from industry partners.

Funding must supplement, not supplant, existing activities/programs. Supplement is defined as adding to existing funds to enhance or expand existing activities. Supplant is defined as replacing existing funds for an activity because grant funds are to fund the same activity.

CDFA reserves the right to offer an award different than the amount requested.

## Project Eligibility

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Public or private colleges and universities, local, state, and federal government entities including California Native American Tribes, and non-profit organizations are eligible to apply.

The project lead(s) and their institutions must be based in California but can work with out-of-state collaborators.

The project lead(s) and/or collaborators must have access to a quarantine facility if the project involves pests that are not yet established in California.

Researchers must obtain all necessary federal and state permits for work with any non-exempt species.

## How to Submit a Grant Proposal

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CDFA cannot assist in the preparation of grant proposals; however, applicants may submit general questions to [cdfa.opca@cdfa.ca.gov](mailto:cdfa.opca@cdfa.ca.gov). In order to ensure that all potential applicants benefit from all submitted questions and answers, CDFA will post all questions and responses on the [program's webpage](#) within five business days of submission. CDFA will not accept questions within five business days of the application deadline.

Submit the application via the [online portal system](#). To develop the application, please use the Applicant Guide that is provided on the [program's webpage](#) and attached to the opportunity in the online portal. **CDFA encourages applicants to review the Applicant Guide before beginning the application process.**

## Proposal Review and Evaluation

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A committee consisting of scientists and specialists at CDFA and other state agencies, California universities, non-governmental environmental organizations, and/or grower representatives will review the merits of the proposals and provide feedback. Any member of the committee connected to a submitted project will recuse themselves from the process. The evaluation criteria are found at the end of this document. CDFA will make final funding decisions.

## Award Notification

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CDFA will notify all applicants regarding the status of their proposal and provide comments. Successful applicants will complete a grant agreement following the award announcement. Grant recipients may not begin project activities until both parties have executed the grant agreement. This program requires recipients to submit annual progress reports and a final report to demonstrate project accomplishments, and address problems and delays. This program requires quarterly invoices and may consider more frequent invoices on a case-by-case basis.

### Disqualifications

Applications that do not meet the following requirements may be disqualified:

- The applicant is not an eligible entity.
- The application includes activities with dates outside the allowable grant duration.
- The funding amount requested is less than the minimum award amount allowable or exceeds the maximum award amount allowable.
- The application is incomplete, including an application with one or more unanswered questions or missing, blank, or unreadable attachments.
- The application includes unallowable costs or activities.
- The application does not meet the purpose as defined in the Request for Proposal.
- The application would provide an improper benefit if funded.
- The application is submitted after the submission period has ended.

### Appeal

Applicants may appeal any disqualification taken by CDFA during the administrative review for the preceding reasons within 10 calendar days of receiving a notice of disqualification. The appeal must be in writing and signed by the responsible party name on the grant application or his/her authorized agent. It must state the grounds for the appeal and include any supporting documents and a copy of the CDFA decision being challenged. The submissions must be sent to the CDFA's Office of Hearings and Appeals, 1220 N Street, Sacramento, CA 95814 or emailed to [CDFA.LegalOffice@cdfa.ca.gov](mailto:CDFA.LegalOffice@cdfa.ca.gov). Submissions received outside of this timeframe will be denied.

## Grant Proposal Requirements

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### Allowable and unallowable costs

A cost is allowable if it directly relates to the project and is incurred solely to advance work under the Grant Agreement. Allowable costs include, but are not limited to, salaries and wages,

release time (California State University researchers), indirect costs, fringe benefits, consultant services, travel, telephone, equipment (lease/rental), subcontractors and materials, data processing, land rentals, training, and communications. Unallowable expenses include, but are not limited to, costs for hospitality suites, alcoholic beverages, costs of entertainment, and costs for organized fund raising including financial campaigns and solicitation of gifts. CDFA does not reimburse unallowable costs.

More information about allowable and unallowable items of cost can be found here:

[https://www.cdfa.ca.gov/Regulations/General/FinalSelectedItemsofCost\\_Guidance.pdf](https://www.cdfa.ca.gov/Regulations/General/FinalSelectedItemsofCost_Guidance.pdf)

### **Executive Order N-6-22 – Russia Sanctions**

On March 4, 2022, Governor Gavin Newsom issued Executive Order N-6-22 regarding Economic Sanctions against Russia and Russian entities and individuals. “Economic Sanctions” refers to sanctions imposed by the U.S. government in response to Russia’s actions in Ukraine, as well as any sanctions imposed under state law. By submitting a proposal or application, the applicant represents that it is not a target of Economic Sanctions. Should the state determine the applicant is a target of Economic Sanctions or is conducting prohibited transactions with sanctioned individuals or entities, that shall be grounds for rejection of the applicant’s proposal/application any time prior to agreement execution, or, if determined after agreement execution, shall be grounds for termination by the state.

### **Indirect costs**

Indirect costs are facilities and administrative costs that cannot easily be tied directly to the activities of the grant. Examples of common indirect costs include administrative/clerical services, rent, utilities, internet and telephone service, maintenance, and general office supplies. Indirect costs should be calculated as a percentage of the modified total direct costs (MTDC). MTDC is calculated as all total direct costs minus excluded costs such as tuition and equipment in excess of \$10,000. Subawards may not be included in the MTDC calculation for the full project budget. University of California, California State University, and other entities with negotiated rates, should use those. Entities without negotiated rates will be capped at 10%. See [OPCA’s Indirect Cost Policy](#) document for more information.

## Evaluation criteria

All applications will be evaluated based on the criteria detailed below (Table 2).

*Table 2: Evaluation criteria*

Evaluation Criteria	Max Points
<p><b>Proposal Quality</b></p> <ul style="list-style-type: none"> <li>• Project Summary. Concisely define the problem and describe the project including project objectives.</li> <li>• Work Plan and Methods. Explain project tasks and how they will be conducted, including experimental design and statistical analyses.</li> <li>• Project Management and Evaluation. Provide the specific metrics that will be used to measure and report on the project's success.</li> <li>• Additional Information. Include required information for project leaders, collaborators, and supporters.</li> </ul>	25
<p><b>Project Justification</b></p> <ul style="list-style-type: none"> <li>• Specify reasons for selecting the target pest including how it might impact California on a local/regional/statewide level. Explain how the project will contribute to the goals of the program and describe relevant research about the target pest and/or system.</li> </ul>	30
<p><b>Project Team and Resources</b></p> <ul style="list-style-type: none"> <li>• Project leaders, collaborators, and other researchers are well-suited to the project.</li> <li>• The team has complementary and integrated expertise, leadership approach/governance, and organizational structure appropriate for the project.</li> <li>• The project has strong support from relevant organizations/individuals.</li> <li>• Matching funds are provided by industry partners/commodity boards.</li> </ul>	15
<p><b>Feasibility and Impact</b></p> <ul style="list-style-type: none"> <li>• Project is manageable within proposed framework of budget, time and personnel.</li> <li>• Project objectives are clear and achievable.</li> <li>• The overall strategy, work methodology, and analyses methods are well-reasoned and appropriate to accomplish the objectives of the project.</li> <li>• Potential problems, alternative strategies and benchmarks for success are included.</li> <li>• Project has clear strategy for outreach to interested farmers and agricultural consultants beyond the project duration.</li> </ul>	20
<p><b>Fiscal Merit</b></p> <ul style="list-style-type: none"> <li>• Project's budget is detailed, reasonable, and accurate. Budget Narrative itemizes, describes, and justifies all project expenses.</li> </ul>	10
<p><b>Total Points</b></p>	100