

**State and Private Forestry  
FY 2010 Western Competitive  
Resource Allocation  
Single-State Project Proposal**

Filename	
2010_CA_WinDET_9-28-09.doc	
Administration Information	
Dollar Amount Requested:	<b>\$200,000</b>
Matching Share:	<b>\$512,500</b>

Applicant Information	
<b>State Forestry Agency:</b>	California Dept of Forestry and Fire Protection
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Project Information			
<b>Descriptive Title of Project:</b>	California WinDET Deployment Enhancement		
<b>Names of Partnering Agencies / Organizations:</b>	California Department of Forestry and Fire Protection United States Forest Service Environmental Research Systems Institute		
<b>State(s):</b>	California	<b>Congressional Districts:</b>	California Statewide
<b>Counties:</b>	Statewide	<b>Forest Service Regions:</b>	5

Total Leverage							
Please specify each 3 <sup>rd</sup> party contributor (partnering organizations and agencies, including other Federal) and the dollar value of each contribution. Please DO NOT show grant requested funds in this table.							
<b>Contributors:</b> (Please specify by name)	CAL FIRE	ESRI					<b>TOTAL</b>
<b>Value of Contributions:</b>	\$502,500	\$10,000	\$0	\$0	\$0	\$0	<b>\$512,500</b>

Project Budget					
	Grant Share (\$ requested)	Applicant	Non-Federal Contributors	TOTAL	
		Cash <sup>1</sup>	In-Kind <sup>2</sup>		
4	<b>Personnel / Labor:</b>	\$0	\$0	\$500,000	<b>\$500,000</b>
	<b>Fringe Benefits:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Travel:</b>	\$1,000	\$0	\$1,000	<b>\$2,000</b>
	<b>Equipment:</b>	\$128,000	\$0	\$0	<b>\$128,000</b>
	<b>Supplies:</b>	\$1,000	\$0	\$1,500	<b>\$2,500</b>
	<b>Contractual:</b>	\$40,000	\$0	\$10,000	<b>\$50,000</b>
	<b>Construction:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Other:</b>	\$0	\$0	\$0	<b>\$ 0</b>
	<b>Indirect Costs:</b>	\$30,000	\$0	\$0	<b>\$30,000</b>
	<b>TOTAL:</b>	<b>\$200,000</b>	<b>\$ 0</b>	<b>\$512,500</b>	<b>\$712,500</b>

Project Duration	
5	What is the duration of this project? <input type="checkbox"/> One Year <input type="checkbox"/> Two Years <input checked="" type="checkbox"/> Three Years

National Relevance	
6	Conserve Working Forest Landscapes <input checked="" type="checkbox"/> Protect Forests From Harm <input checked="" type="checkbox"/> Enhance Public Benefits From Trees and Forests <input checked="" type="checkbox"/>

Project Description	
7	<p>Maximum 5500 Characters Including Spaces – Clearly summarize the proposed project, including goals, objectives, measurable outputs, outcomes, and how grant funds will be used towards successful completion of the project.</p> <p>The acquisition of GIS server technology along with program training support will enhance the California Dept. of Forestry and Fire Protection's (CAL FIRE) ability to fully deploy California WinDET statewide, and manage and distribute spatial data to grass roots, non-governmental, and agency partners. WinDET (Windows Data Entry Tool) is a software tool, developed and maintained by the USDA Forest Service for state forestry agencies which allows field foresters working with private landowners and other partners:</p> <ul style="list-style-type: none"> <li>• to prepare Forest Stewardship Management Plans</li> <li>• record contact and other attribute information per plan property</li> <li>• track plan implementation and accomplishments over time</li> <li>• and spatially display and analyze plan locations and associated activities.</li> </ul> <p>CAL FIRE is engaged in a pilot with the USFS and ESRI (Environmental Research Systems Institute) to customize data tables within the WinDET database schema and accommodate all on-the-ground projects in the state of California.</p> <p>Additional funding support will customize a statewide process and solidify CAL FIRE's hardware/software infrastructure to produce and deliver information in a common framework. Enhanced capability to share spatial</p>

<sup>1</sup> 'Cash' is the value of any qualifying match the applicant pays for such as cash, staff time, supplies, or equipment.

<sup>2</sup> 'In-Kind' is the value of any qualifying match contributed by a non-federal 3<sup>rd</sup> party contributor such as donated time, supplies, or equipment.

information with agency partners (i.e., USFS, NRCS, BLM) and the ability to integrate their data into CAL FIRE's processes moves all toward the common goal of making informed decisions on where to place limited human and fiscal resources.

Consistent detailed information in the hands of CAL FIRE's forestry staff and pre-fire planners will advance outreach capabilities and collaborations across jurisdictions. The department already has strong programs throughout the state that work collaboratively, achieving goals on the larger landscape with federal partners and lot by lot with individual landowners (Lake Tahoe and M.A.S.T., for example). All seek more sophisticated planning and assessment tools. A common spatial framework provided through California WinDET will capitalize on work already accomplished and provide clearer direction for work in undermanaged areas. Funds to secure and standardize the hardware and software will assure strong statewide deployment and better data integration and management capabilities.

Goals:

- Adopt and support common information framework (California WinDET) across the department and flexible with other agencies, to capture, analyze, and distribute spatial data and maps representing on-the-ground activities, vegetative conditions, and priority landscapes.
- Make comprehensive project level and landscape level data available to planners, reviewers, implementors, and fire suppression command.
- More intelligently direct state and federal dollars to on-the-ground projects with consistent project documentation.
- Deploy a system that clearly associates funding with activities.
- Use fiscal and human resources efficiently and effectively while participating in the national effort to better manage and protect the nation's natural resources.

Objectives: Successfully deploy a spatial database management system that enhances understanding of what is accomplished in California, where we fall short, and how much it costs, which folds directly into national goals established in the 2008 Farm Bill. Enhancing the IT infrastructure will strengthen CAL FIRE's ability to centrally manage and distribute the data.

Outputs:

- Annual comprehensive reporting to funders.
- Quarterly data synthesis and return to stakeholders.
- Robust spatial information to better inform outreach and decision making at the local and landscape level.

Outcome: Integration and mainstreaming of spatial reporting and analysis tools available via the computer desktop for resource management project assessment and decision making.

Use of Funds: Acquire server hardware and software to manage, manipulate, and distribute statewide data; customize and fine tune the WinDET database structure and data management processes; enhance and place hardware and software components in each CAL FIRE Unit to capture and review data through WinDET, ArcView, Google Earth Pro; serve out data to stakeholders outside of CAL FIRE.

Solidifying the underlying hardware and software technology will allow CAL FIRE to mainstream spatially based assessments and data collection & analysis tools. Accessible information will better engage and facilitate private landowners, Fire Safe Councils, and watershed protection groups in forest enhancement and fuels reduction projects, and enable greater transparency and accountability vis-à-vis funding. The management capability of ArcServer will make statewide data more accessible to local, regional, and interstate stakeholders. Information and technology in the hands of resource management professionals and pre-fire planning staff will maximize investments already made toward informed decision making, innovative planning, and targeting areas for reforestation/aforestation, fuels reduction, timber production, and resource preservation.

Effective management and delivery of data collected in California WinDET would be enhanced by the addition of a GIS data server, supporting software, and focused training.

<b>Program Integration</b>	
<b>8</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>Within CAL FIRE, the California WinDET integrates data from across resource management and pre-fire operations; further, the department works in association with local Resource Conservation Districts (RCDs), Fire Safe Councils, neighborhood coalitions, watershed groups, and other state and federal agencies in the planning, implementation and monitoring of forest enhancement and fuels reduction projects. A common spatial framework of information, collected and distributed, will enhance the common goals of forest resource enhancement and protection through more competely informed decision making. Incorporating Urban Forestry projects administered through the department as well as carbon credit set-aside areas, will allow for not only complete fiscal tracking of resources, but carbon tracking as well.</p>

<b>Collaboration</b>	
<b>9</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>CAL FIRE currently is engaged in a pilot project with the USFS State &amp; Private Forestry and ESRI to move departmental project level data, across programs, into the GeoDatabase framework (schema) behind WinDET. With additional customization from ESRI, California will maintain activity tables not in the original WinDET schema but consistent with federal standards. California WinDET is a unique collaboration of resources and expertise, with meaningful information and relevance at the local, state and national levels. Local Resource Conservation Districts have been struggling with spatially capturing fuels management projects to enhance their planning and outreach. The Placer County RCD and the Mountain Area Safety Taskforce (M.A.S.T.) are examples of local organizations eager for CAL FIRE's leadership in spatial data capture. The ability to deliver comprehensive spatial data to such organizations will obviate duplicative or redundant databases and systems. Grant funds will allow further detailing of the WinDET data structure to accommodate specific needs at the local level while maintaining the ability to report accomplishments and fulfill federal requirements.</p>

<b>Leverage</b>	
<b>10</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>ESRI (Environmental Systems Research Institute, Inc) is working with CAL FIRE to place existing data into the WinDET schema, putting statewide implementation on more sure footing. Standardizing the spatial database schema to capture on-the-ground projects across programs, is the common framework that will make both the local and the landscape level data more meaningful to planners and stakeholders.</p> <p>Existing, permanent staff are the primary leverage. An experienced GIS staff, including a Ph.D. remote sensing specialist (Rich Walker), a statewide GIS Coordinator (Suzanne Lang), a full-time Research Analyst II (Mami Odaya), and a Research Analyst I (vacant) will be responsible for data management and cartographic development along with fractional time from Unit Foresters, Forestry Assistance Specialists, VMP Coordinators for data capture in WinDET and engagement in public outreach and education. Their responsibilities include managing contracts and projects through Forest Stewardship, the California Forest Improvement Program (CFIP), and other programs.</p>

<b>Meaningful Scale</b>	
<b>11</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>Project level data is essential for meeting localized resource improvement and fire protection goals, and feeds directly up to the regional, state, and ultimately, national levels. The WinDET schema, with customized California activity tables, is flexible enough to contain data on commercial timber harvesting, cooperative fuel breaks in the WUI (Wildland Urban Interface), urban re-forestation efforts, and door-to-door contacts. Data, consistently entered by foresters and planners all over the state into California WinDET will record and advise work at the local level that meets the national priorities of conserving, protecting, and enhancing the nation’s forestlands. Likewise, more transparent accountability could effectively bring more funds into California that migrate down to the local level while addressing national forest management objectives.</p>

<b>Sphere of Influence</b>	
<b>12</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>The ability to capture, maintain, and distribute information such as existing vegetation, management goals, water quality issues, restoration and mitigations, will be a valuable resource for landowners and agency resource planners across the state. Accessible spatial information available to resource management professionals will make project review more straightforward and developing alternatives more informed. This same information available to non-agency planners will support Fire Safe Councils, watershed groups, and individual landowners using funds in the most strategic ways. Immediate access to data representing fuels modification projects could make the difference in how a fire incident is staged and its ultimate outcome.</p> <p>Information that directly illustrates accountability and tracks accomplishments and is delivered to the federal government through the USFS -a major component of ReDesign, will help determine national priorities and may support California’s forest management goals through greater federal support being awarded to the state.</p> <p>California's successful use of WinDET as a data tracking tool with a robust database that supports decision making will serve as a model for other states throughout the country.</p>

<b>Sustainability of Outcomes</b>	
<b>13</b>	<p><b>Maximum 1250 Characters Including Spaces</b></p> <p>The California WinDET does not rely on grant funded staff but leverages existing GIS staff, program expertise, and infrastructure. WinDET is designed for long-term performance: California WinDET’s virtual representation and data management will encourage and reflect the actual forest resource management activities. The grant funds will fortify and ensure successful deployment. Employing a California WinDET and accompanying standard tools will augment current programs, standardizing the way information is collected and comprehended on the local and regional level, serving as a venue for capturing data, viewing aerial and satellite imagery, and planning on-the-ground outcomes. An integral component of USFS’s Redesigned State and Private Forestry is Demonstrating and Communicating Results. Over time, data collected in WinDET will “identify accomplishments and related trends” and illustrate how the department, with partners and other stakeholders, produces meaningful on-the-ground results. With a firm foundation of technology, information and tools, and a continuing partnership with the USFS and local stakeholders, the system can be added on to, enhanced, and updated over time.</p>