

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

Filename	
NE_multiCTAP	
Administration Information	
Dollar Amount Requested:	\$300,000
Matching Share:	\$303,650

Lead Applicant Information															
1	<table border="1"> <tr> <td>State Forestry Agency:</td> <td>Nebraska Forest Service (NFS)</td> </tr> <tr> <td>Contact Person:</td> <td>Dr. Scott J. Josiah</td> </tr> <tr> <td>Address:</td> <td>103 Entomology Hall, UNL East Campus</td> </tr> <tr> <td>City/State/Zip Code:</td> <td>Lincoln, NE 68583-0815</td> </tr> <tr> <td>Phone (Work/Cell):</td> <td>402-472-1467 / 402-805-7657</td> </tr> <tr> <td>Email:</td> <td>sjosiah1@unl.edu</td> </tr> <tr> <td>Fax:</td> <td>402-472-2964</td> </tr> </table>	State Forestry Agency:	Nebraska Forest Service (NFS)	Contact Person:	Dr. Scott J. Josiah	Address:	103 Entomology Hall, UNL East Campus	City/State/Zip Code:	Lincoln, NE 68583-0815	Phone (Work/Cell):	402-472-1467 / 402-805-7657	Email:	sjosiah1@unl.edu	Fax:	402-472-2964
State Forestry Agency:	Nebraska Forest Service (NFS)														
Contact Person:	Dr. Scott J. Josiah														
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Email:	sjosiah1@unl.edu														
Fax:	402-472-2964														

Lead Applicant - Project Information			
2	Descriptive Title of Project:	CTAP: Community Threat Assessment Protocol to Mitigate I&D and Wildfire	
	Names of Partnering Agencies / Organizations:	Nebraska Rural Initiative (NRI), Nebraska Arborists Association (NAA), Nebraska Nursery and Landscape Association (NNLA), League of Nebraska Municipalities (LNM), Nebraska Department of Roads (NDOR), Natural Resource Districts (NRD), Nebraska Department of Natural Resources (NDNR), Natural Resources Conservation Service (NRCS), Nebraska Department of Environmental Quality (NDEQ) and participating assessment communities.	
	State(s):	Nebraska	Congressional Districts: Districts 1 - 3
	Counties:	Statewide	Forest Service Regions: Region 2

Lead Applicant – Total Leverage							
Please specify each 3 rd 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.							
3	Contributors: (Please specify by name)	Assessment Communities	Nebraska Rural Initiative	NAA	NNLA		TOTAL
	Value of Contributions:	\$105,000	\$30,000	\$10,000	\$5,000	\$0	\$150,000

Lead Applicant – Project Budget					
	Grant Share (\$ requested)	Applicant	Non-Federal Contributors	TOTAL	
		Cash¹	In-Kind²		
4	Personnel / Labor:	\$71,610	\$30,000	\$20,000	\$121,610
	Fringe Benefits:	\$20,050	\$8,400	\$0	\$28,450
	Travel:	\$10,200	\$0	\$0	\$10,200
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$10,000	\$0	\$30,000	\$40,000
	Contractual:	\$38,140	\$0	\$8,500	\$46,640
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$55,500	\$0	\$55,500
	TOTAL:	\$150,000	\$93,900	\$58,500	\$302,400

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

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

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

² 'In-Kind' is the value of *any qualifying match* contributed by a nonfederal 3rd party contributor such as donated time, supplies, or equipment.

Co - Applicant Information	
1.1	State Forestry Agency: Kansas Forest Service
	Contact Person: Larry Biles
	Address: 2610 Claflin Road
	City/Zip Code: Manhattan, KS 66502
	Phone (Work/Cell): 785-532-3300
	Email: lbiles@ksu.edu
	Fax: 785-532- 3305

Co - Applicant Project Information				
2.1	Title of Project:	CTAP: Community Threat Assessment Protocol to mitigate I&D and wildfire		
	Partnering Agencies / Organizations:	Kansas Arborist Association (KAA), Kansas Nursery and Landscape Association (KNLA), Kansas League of Municipalities (KLM), John C. Pair Horticulture Center (JCPHC), Kansas Department of Transportation (KDOT), Resource Conservaton and Development Districts (RC&D) and participating assessment communities.		
	State(s):	Kansas	Congressional Districts:	District 1 - 4
	Counties:	All Counties	Forest Service Regions:	Region 2

Co-Applicant – Total Leverage							
3.1	3rd Party Contributors: (Specify by name)	Assessment Communities	KAA	KNLA	JCPHC		TOTAL
	Value of Contributions:	\$130,000	\$10,000	\$5,000	\$5,000	\$0	\$150,000

Co-Applicant – Project Budget					
	Grant Share (\$ requested)	Applicant	3 rd Party Contributors	TOTAL	
		Cash	In-Kind		
4.1	Personnel / Labor:	\$106,610	\$10,000	\$42,000	\$158,610
	Fringe Benefits:	\$24,390	\$2,800	\$11,200	\$38,390
	Travel:	\$9,000	\$0	\$0	\$9,000
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$10,000	\$0	\$5,000	\$15,000
	Contractual:	\$0	\$0	\$10,000	\$10,000
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$8,000	\$8,000
	Indirect Costs:	\$0	\$62,250	\$0	\$62,250
	TOTAL:	\$150,000	\$75,050	\$76,200	\$301,250

Co - Applicant Information	
1.2	State Forestry Agency:
	Contact Person:
	Address:
	City/Zip Code:
	Phone (Work/Cell):
	Email:
	Fax:

Co - Applicant Project Information				
2.2	Title of Project:			
	Partnering Agencies / Organizations:			
	State(s):		Congressional Districts:	
	Counties:		Forest Service Regions:	

Co-Applicant – Total Leverage								
3.2	3rd Party Contributors: (Specify by name)							TOTAL
	Value of Contributions:	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0

Co-Applicant – Project Budget					
	Grant Share (\$ requested)	Applicant	3rd Party Contributors	TOTAL	
		Cash	In-Kind		
4.2	Personnel / Labor:	\$0	\$0	\$0	\$ 0
	Fringe Benefits:	\$0	\$0	\$0	\$ 0
	Travel:	\$0	\$0	\$0	\$ 0
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$0	\$0	\$0	\$ 0
	Contractual:	\$0	\$0	\$0	\$ 0
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$0	\$0	\$ 0
	TOTAL:	\$ 0	\$ 0	\$ 0	\$ 0

1.3		Co - Applicant Information	
	State Forestry Agency:		
	Contact Person:		
	Address:		
	City/Zip Code:		
	Phone (Work/Cell):		
	Email:		
	Fax:		

2.3		Co - Applicant Project Information			
	Title of Project:				
	Partnering Agencies / Organizations:				
	State(s):		Congressional Districts:		
	Counties:		Forest Service Regions:		

3.3		Co-Applicant – Total Leverage						
	3 rd Party Contributors: (Specify by name)							TOTAL
	Value of Contributions:	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0

4.3		Co-Applicant – Project Budget			
		Grant Share (\$ requested)	Applicant	3 rd Party Contributors	TOTAL
			Cash	In-Kind	
	Personnel / Labor:	\$0	\$0	\$0	\$ 0
	Fringe Benefits:	\$0	\$0	\$0	\$ 0
	Travel:	\$0	\$0	\$0	\$ 0
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$0	\$0	\$0	\$ 0
	Contractual:	\$0	\$0	\$0	\$ 0
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$0	\$0	\$ 0
	TOTAL:	\$ 0	\$ 0	\$ 0	\$ 0

1.4		Co - Applicant Information	
	State Forestry Agency:		
	Contact Person:		
	Address:		
	City/Zip Code:		
	Phone (Work/Cell):		
	Email:		
	Fax:		

2.4		Co - Applicant Project Information			
	Title of Project:				
	Partnering Agencies / Organizations:				
	State(s):		Congressional Districts:		
	Counties:		Forest Service Regions:		

3.4		Co-Applicant – Total Leverage						
	3 rd Party Contributors: (Specify by name)							TOTAL
	Value of Contributions:	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0

4.4		Co-Applicant – Project Budget			
		Grant Share (\$ requested)	Applicant	3 rd Party Contributors	TOTAL
			Cash	In-Kind	
	Personnel / Labor:	\$0	\$0	\$0	\$ 0
	Fringe Benefits:	\$0	\$0	\$0	\$ 0
	Travel:	\$0	\$0	\$0	\$ 0
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$0	\$0	\$0	\$ 0
	Contractual:	\$0	\$0	\$0	\$ 0
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$0	\$0	\$ 0
	TOTAL:	\$ 0	\$ 0	\$ 0	\$ 0

1.5		Co - Applicant Information	
	State Forestry Agency:		
	Contact Person:		
	Address:		
	City/Zip Code:		
	Phone (Work/Cell):		
	Email:		
	Fax:		

2.5		Co - Applicant Project Information			
	Title of Project:				
	Partnering Agencies / Organizations:				
	State(s):		Congressional Districts:		
	Counties:		Forest Service Regions:		

3.5		Co-Applicant – Total Leverage							
	3 rd Party Contributors: (Specify by name)								TOTAL
	Value of Contributions:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$ 0

4.5		Co-Applicant – Project Budget			
		Grant Share (\$ requested)	Applicant	3 rd Party Contributors	TOTAL
			Cash	In-Kind	
	Personnel / Labor:	\$0	\$0	\$0	\$ 0
	Fringe Benefits:	\$0	\$0	\$0	\$ 0
	Travel:	\$0	\$0	\$0	\$ 0
	Equipment:	\$0	\$0	\$0	\$ 0
	Supplies:	\$0	\$0	\$0	\$ 0
	Contractual:	\$0	\$0	\$0	\$ 0
	Construction:	\$0	\$0	\$0	\$ 0
	Other:	\$0	\$0	\$0	\$ 0
	Indirect Costs:	\$0	\$0	\$0	\$ 0
	TOTAL:	\$ 0	\$ 0	\$ 0	\$ 0

Project Description

Maximum 10,000 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. – Please specify the components of the project that will occur in each state.

This project clearly demonstrates the S&PF themes of "Protecting Forests from Harm" and "Enhancing Public Benefits from Trees and Forests." The proposed project will develop an innovative assessment process and rapid reporting / planning model utilizing cutting-edge technologies to educate, advocate and prepare communities for existing and future threats to the urban and community forest resource. This effort, titled "Community Threat Assessment Protocol" (CTAP) will establish and implement the following framework:

FOCUS: Identify and define the critical landscapes at risk to destructive insect and disease attack and wildland fire.

PRIORITY: Identify, quantify and prioritize the community forest resource at risk through resource inventories and environmental and economic analyses to establish targeted management and advocacy efforts to mitigate impacts.

OUTCOME: Establish replicable assessment and planning model for duplication by other communities and organizations in preparing for threats to the community forest resource. Ultimately this effort will: 1) provide community- and state-level decision makers with a powerful tool to mitigate potential impacts; 2) assist in better managing mitigation costs and 3) maintain and expand forest health integrity to maximize public benefits generated by this critical community resource.

7 Communities in KS and NE are increasingly at risk to catastrophic invasive insect and disease outbreaks as well as wildland fire. Severe threats in NE and KS communities include: emerald ash borer (EAB), pine wilt disease (PWD), 1,000 canker (walnut) (TCW) and recently identified mountain pine beetle (MPB). Collectively these threats are uniformly fatal and have the potential to kill, across both states, as much as 30% or more of the average community forest resource within the next decade. Communities will be burdened with a total removal cost calculated at \$22 million and loss of environmental services estimated at more than \$2.6 billion. Clearly few communities, or states, are prepared to manage or mitigate such losses. The specific species impacted by these threats are typically critical, high-value plantings within community landscapes, such as screening and windbreaks (Scotch and Austrian pine loss to PWD and ponderosa pine loss to MPB) and as shade and street / park trees (ash species loss to EAB and walnut loss to TCW).

Community forest resources and property are also increasingly threatened by wildland fire. The encroachment of highly flammable eastern redcedar (ERC) within community natural areas and tracts of heavy stands of native grasses or pasture with a dominant and expanding ERC component pose a substantial threat to life and property within and adjacent to many Great Plains communities.

Communities and elected officials can rarely associate the risk of these threats with specific resource impacts and related costs at a community level. Very little information and few protocols are available to rapidly assist communities in defining the resource at risk and its extent. Economic and environmental analysis resources are critical for supporting management advocacy to mitigate and prepare for the impacts. Few rural communities, if any, have the financial resources to manage the loss, removal and replacement of up to 30% of their forest canopy. CTAP will develop a proactive assessment and management tool designed to greatly improve decision making, preparedness and response. Ultimately this effort will mitigate overall impacts, assist in proactively managing costs and maintain forest health integrity to maximize public benefits generated by this critical community resource. This effort will build upon existing pilot inventory and sampling protocols developed by the highly successful 4-state Great Plains Tree and Forest Invasives Initiative. CTAP will also utilize portions of UFORE and I-Tree analysis to create a hybrid assessment tool. Initial investments in this process during the 2009 field seasons demonstrated data collection processes 75% faster than UFORE and i-Tree assessments.

GOAL: To mitigate damage from and economic impacts of I&D and wildland fire risk at the community level by

developing and implementing a replicable protocol for the rapid assessment, documentation and creation of localized decision, response and planning tools. This tool will guide community decision makers in preparing and planning for mitigating the impacts of highly destructive insect, disease and wildland fire threats.

OBJECTIVES:

1. Develop protocol to identify communities at risk to catastrophic insect and disease outbreak and wildland fire.
2. Develop Community Threat Analysis Protocol (CTAP) and conduct rapid surveys and assessments of all public tree resources and wildland fire risks in 200 targeted communities selected across both states based on population and potential threats of I&D and wildfire.
3. Conduct economic analysis of environmental services and replacement costs to guide future management, mitigation and decision making.
4. Utilize geographic information systems (GIS) to map risk and resource assessments and display known and emerging insect, disease and wildfire threats.
5. Mitigate the environmental and economic impacts of insect, disease and wildfire threats to communities by completing CTAP and providing proactive management and advocacy strategies to community leaders and green industry professionals.

OUTPUTS: In cooperation with participating communities and green industry partners, the CTAP project will:

1. Establish replicable CTAP protocol and methodology. Methodology will produce forest resource data for all public property on resource stocking rate, canopy percentage, identification of critical landscapes threatened areas, planting vacancies and ID and mapping of wildland fire threats and interface areas.
2. Complete CTAP plans for a minimum of 200 (100 per state) targeted communities; analyze to quantify resource, risk, economic and environmental service analysis; and identify advocacy and management strategies.
3. Complete GIS mapping and analysis of 200 completed CTAP communities, as well as aggregated assessment of overall forest health and environmental service trends across targeted communities.
4. Complete education and outreach program for targeted communities as a means of advocating and enhancing public benefits of community forest resources and providing community decision makers with detailed risk assessment and financial information. Outreach will include a total of 4 - 6 regionalized workshops per state covering CTAP results, potential resource impacts and discussion of management strategy and advocacy options, as well as individualized visits with CTAP community decision makers to formulate community-based response planning. Target audiences will include city administrators, community decision makers and green industry representatives. Social marketing and outreach efforts will utilize mass media to target the general public with the objectives of CTAP and specific recommendations including recommended species for forest health diversity and cultural practices related to tree planting and care. Response planning will be linked to existing community based program efforts including: Tree City USA, ReTree Nebraska and community-based networking via Nebraska Community Forestry Council.

OUTCOMES:

1. Knowledge of the extent of risk of insect, disease and wildfire to the community forest resource in 200 communities across 2 states.
2. Availability of a demonstrated, documented data collection and assessment process (CTAP) that can be used in other states / regions.
3. Elected officials and resource professionals better informed of and prepared to understand and manage forest health and fire risks.
4. Greatly enhanced geospatial resource for management and planning that supports critical issues identified in state forest resource assessment and response plans.
5. Enhanced green industry participation to support forest health management practices including improved species diversity, educational support for proper planting and cultural practices and Firewise community program efforts, and engagement with public officials in proactive management efforts.

GRANT FUNDS: Grants funds will be used within each state to fund .5 FTE assessment coordinator for a total of 1 FTE / year for 2 years. The assessment coordinator will organize and supervise all assessment work, data analysis and community coordination and report documentation for communities. Position will also coordinate with green

industry professionals, specifically Nebraska Arborists Association, Nebraska Nursery and Landscape Association and Nebraska League of Municipalities, as well as Kansas Arborists Association, Kansas Nursery and Landscape Association and Kansas League of Municipalities, in the development of community report recommendations to mitigate impacts of insect and disease threats and wildfire risk. Seasonal inventory crews will be contracted within each state to complete assessment surveys, data entry, environmental services and economic analysis calculations, and report generation and distribution. Grant funds will be used to purchase necessary field equipment for data collection (Ipaq handhelds), as well as for travel costs incurred while completing assessment work and meeting with community decision makers for plan development and presentation. Grant funds will also be used to support regionalized workshops in cooperation with green industry and community sponsors.

Program Integration	
8	<p>Maximum 1250 Characters Including Spaces</p> <p>CTAP, operating under the S&PF themes of "Protecting Forests from Harm" and "Enhancing Public Benefits from Trees and Forests" will rely upon and incorporate the expertise and programmatic relationships of the traditional S&PF programs including: Cooperative Fire, Forest Health, Forest Stewardship and Urban and Community Forestry. Urban & Community Forestry, with green industry partnerships (NAA, NNLA, KAA and KNLA), will function as the coordinating program in project implementation. Forest Stewardship and Forest Health will provide program support and integration with inventory and assessment methods, as well as developing management recommendations to mitigate anticipated insect and disease threats. Data derived from assessments will also be used to calculate available biomass in support of separate biomass utilization initiatives. Cooperative Fire will provide support with identifying wildland-urban interface areas and integrating existing and emerging Community Wildfire Protection Plan elements into advocacy and management recommendations. A natural link and integration opportunity will target facilitating U&CF's Tree City USA program with Coop. Fire's Firewise Communities USA.</p>

Collaboration	
9	<p>Maximum 1250 Characters Including Spaces</p> <p>NFS and KFS have a successful history of engaging local, non-governmental and green industry organizations (230+ tree boards, ReTree Ambassadors, Nebraska Community Forestry Council, John C Pair Hort. Center (JCPHC), arborist associations and nursery and landscape associations) across both states and will rely upon these partnerships in implementing CTAP. Specifically:</p> <ol style="list-style-type: none"> 1. NAA and KAA (arborists) and NNLA and KNLA (nurseries) will provide green industry expertise for analysis of findings, cost estimates of impacts, and recommendations for advocacy and management planning. Organizations will also provide lists of certified professionals for planting, removal and treatment needs. 2. Leagues of Municipalities within each state will assist in promoting CTAP within communities, as well as project findings and overall management recommendations. 3. Arborist and nursery associations and JCPHC will assist in the development, promotion and utilization of diverse woody plant material to promote diversity, improve forest health and reduce wildland fire risk within targeted communities. 4. Participating communities, NRDs, RC&Ds and NRCS will provide local expertise, inventory support, aerial photographs and remote sensing support.

Leverage	
10	<p>Maximum 1250 Characters Including Spaces</p> <p>Multiple levels of leveraged support will occur with the successful implementation of CTAP. Examples of leveraged resources include:</p> <ol style="list-style-type: none"> 1. NFS & KFS inter-/intra-agency program integration for project implementation. Expertise and resource support from each of the S&PF core programs will be "re-harnessed" and targeted for project implementation. 2. Targeted participating communities (200 across NE and KS) will provide local assistance and resources in data collection, as well as the input and development of advocacy activities and management recommendations. 3. Green industry organizations (NAA, NNLA, KAA, KNLA and JCPHC) will greatly leverage grant resources with support of and input on assessment analysis and development of localized management planning. 4. Utilize 2009 1-meter aerial imagery paid for and provided by a variety of state (NRDs, NDEQ, NDNR) and federal (NRCS, USFS) partners. 5. Build upon successful inventory protocol (UFORE & FIA) and programming completed to date through the multistate Great Plains Tree and Forest Invasives Initiative and NFS community inventory "SNAPSHOT" program.

Meaningful Scale	
11	<p>Maximum 1250 Characters Including Spaces</p> <p>Communities in KS and NE are increasingly at risk from catastrophic invasive insect and disease outbreaks, as well as wildland fire. The goal of CTAP is to provide locally-derived assessment, analysis, outreach, advocacy and management input on a community level across 2 states. Based on input from elected officials and green industry professionals, there is strong agreement that working at this scale is most effective in providing management input that can be quickly utilized in mitigating the impact of catastrophic I&D and wildland fire. While statewide and regional assessments are currently available (i.e. FIA) the data is too coarse to use effectively at a county or community level. Participating communities will be selected based on approximate risk of known threats, as well as geographic distribution to capture known tree species preference / range and establish statewide trend analysis for GIS and on-going state assessment and response planning. While CTAP communities will directly benefit from CTAP, the specific outputs and related outcomes will directly support statewide analysis and planning, as well as provide a replicable model for other states and regions.</p>

Sphere of Influence	
12	<p>Maximum 1250 Characters Including Spaces</p> <p>CTAP will identify, create and implement a rapid assessment protocol that is replicable in other states. The assessment product output and management plan, based on the analysis, will include advocacy methodologies that will be replicable in other states, but more importantly, useable and easily transferable on a community level. The outreach and social marketing activities to the general public and to community decision makers will also directly benefit and influence management activities in adjacent communities. The implementation of the management recommendations, such as proactive and diverse tree planting initiatives to mitigate tree losses from invasives, will dramatically and positively impact the green industry with increased product demand. Recommendations for treatment options and potential mitigation activities will also positively impact the demand for certified arborists.</p>

Sustainability of Outcomes	
13	<p>Maximum 1250 Characters Including Spaces</p> <p>The successful completion CTAP will provide not only meaningful management information at a local level, but also create excellent support and baseline data for state resource assessments and trend analysis long into the future. The successful implementation of management recommendations and advocacy opportunities by community decision makers will define and create a community forest resource that is more diverse, resilient and able to withstand dynamic changes related to invasive insect and disease attacks, wildland fire and climate change. Educational efforts and advocacy activities will create an environment where community leaders are better informed of the needs and benefits of the community forest resource and whose decisions will ensure the sustainability of the community forest for the benefit of future generations. Such communities will serve as model programs to neighboring municipalities and state efforts for the future.</p>