

### FY 2010 Base Evaluation Monitoring Projects

Proposal No.	Title	Investigator	Year	FY 10 Allocation	Unit - Fund code
INT-EM-08-01	Aspen Mortality in the Rocky Mountain Region: Extent, Severity, and Causal Factors	Kurt Allen, Jim Blodgett, Kelly Burns, FHP R2,	3 of 3	\$52,000	R2 - SPFH
INT-EM-B-10-01	White pine blister rust in the Southwest: Monitoring the health of southwestern white pine	Dr. Kristen Waring - Northern Arizona University	1 of 3	\$49,000	R3 - SPFH
INT-EM-B-10-03	The influence of mountain pine beetle outbreaks on carbon and nitrogen cycling in lodgepole pine ecosystems	Matt Hansen, USFS-RMS	1 of 3	\$25,000	RMS - SPFH
INT-EM-B-10-04	Rapid aspen decline on the southwestern edge of its range	Margaret M. Moore - Northern Arizona University	1 of 2	\$22,000	R3 - SPFH
INT Regional Projects				\$30,000	R2 - SPFH
NC-EM-09-03	Drought-related mortality and growth decline in aspen forests	John Bradford NRS, Dan Kashian Wayne State	2 of 2	\$45,000	NRS - SPFH
NC-EM-09-02	Assessment of Beech Bark Disease in Michigan: Rate of Spread and Impacts on Stand Composition and Down Woody Material	Deborah G. McCullough, MSU	2 of 3	\$48,000	NA - SPCH
NC-EM-B-10-01	Distribution and intensification of bur oak blight in Iowa and the Midwest	Tom Harrington, ISU	1 of 3	\$47,000	NA - SPCH
NC-EM-B-10-02	Sugar maple dieback in the upper great lakes region	Andrew Storer, MTU	1 of 3	\$60,000	NA - SPCH
NC Regional Projects				\$30,000	NA - SPCH
NE-EM-09-02	Landscape patterns of white ash ( <i>Fraxinus americana</i> ) health in the Allegheny Plateau Region	Alejandro Royo and Kathlene Knight, NRS	2 of 2	\$28,000	NRS - SPFH

NE-EM-B-10-01	Investigating Causes of Mortality in Vermont and Adjacent States	Robert DeGues, VT Dept. For. Parks & Rec.	1 of 3	\$10,000	NA - SPCH
NE-EM-B-10-02	A survey of Beech Bark Disease intensity as it is related to the biophysical regions in the aftermath forests of Maine.	William Ostrofsky, ME FS	1 of 2	\$18,000	NA - SPCH
NE-EM-B-10-03	The role of <i>Phytophthora cinnamomi</i> in recent oak mortalities in northeastern regions.	Yilmaz Balci, Univ of MD	1 of 3	\$48,000	NA - SPCH
NE Regional Projects				\$30,000	NA - SPFH
SO-EM-09-01	Assessing Forest Tree Risk of Extinction and Genetic Degradation from Climate Change	Bill Hargrove, SRS	2 of 3	\$32,000	SRS - SPFH
SO-R-09-01	Yellow Birch in the Southern Appalachians as an Indicator of Acidified Soils and Forest Susceptibility to Climate Change and Other	Ken Stolte, SRS	2 of 3	\$37,000	SRS - SPFH
SO Regional Projects				\$30,000	R8 - SPFH
WC-EM-09-01	How Climate Shapes Yellow-cedar in Alaska: Use of Inventory Plots to Evaluate Broad-Scale Occurrence, Cedar Decline, and Migration	Paul Hennon, FHP, R10	2 of 2	\$14,000	R10 - SPFH
WC-EM-09-02	Monitoring Mountain Pine Beetle Life Cycle Timing and Phloem Temperatures at Multiple Elevations and Latitudes in California	Barbara Bentz, RMS	2 of 3	\$27,000	RMRS - SPFH
WC-EM-B-10-01	Alder ( <i>Alnus tenuifolia</i> ) Mortality Agent Complex Effects on Riparian Zone Habitat,	Jim Kruse, FHP R10	1 of 2	\$22,000	R10 - SPFH
WC Regional Projects				\$30,000	R6 - SPFH
<b>Total</b>				<b>\$734,000</b>	

### FY 2010 Fire Evaluation Monitoring Projects

Proposal No.	Title	Investigator	Year	FY 10 Allocation	UNIT - FUND CODE
INT-F-08-01	Evaluating and Monitoring Mountain Pine Beetle Infestation in Fire-Damaged Ponderosa and Lodgepole Pine Stands.	Darren Blackford, FHP R4	3 of 3	\$36,000	R4 - SPS4
INT-F-09-01	Bark Beetle Outbreaks in Ponderosa Pine and Douglas-fir Forests: Implications for Fuels, Fire, and Management Under Different Climate Scenarios	Carolyn Seig, RMS	2 of 2	\$34,000	RMS - SPS4
INT-EM-F-10-01	Development of a monitoring program to detect and predict pandora moth outbreaks in northern Arizona	Ryan Hanavan, FHP R3	1 of 3	\$24,000	R3 - SPS4
INT-EM-F-10-02	Fuel and Fire Behavior in High Elevation Five Needle Pines Affected by Mountain Pine Beetle	Michael Jenkins, Utah State University	1 of 2	\$32,000	R4 - SPS4
INT-EM-F-10-03	Quantifying the short- and long-term impacts of mountain pine beetle (MPB) outbreaks on forest conditions in the Intermountain West	Chris Fettig, PSWRS	1 of 3	\$50,000	PSW - SPS4
NC-F-09-02	Impact of climate change-induced drought and temperature stress on oak decline/mortality, fuel build-up and fire risk in the Ozarks: Developing a prospective oak decline/mortality and fuel model based on retrospective analyses of the USFS FIA/FHM plots and NOAA historical climate data in the Ozark Plateau	W. Keith Moser, Zhaofei Fan, Mark H. Hansen, Stephen R. Shifley	2 of 3	\$21,000	NRS - SPS5
NC-EM-F-10-04	The impact of invasive plant species on central hardwood forest ecosystems	Keith Moser, NRS and Songlin Fei, U of Kentucky	1 of 3	\$27,000	NRS - SPS5

SO-F-09-03	Fuel Dynamics in Southern Pine Beetle Killed Stands and its Implication to Fire Behavior	Geoff Wang, Clemson U.	2 of 3	\$48,000	R8 - SPS5
SO-EM-F-10-01	Impact of Climate Change on Forest Health in the Southeast US: Constructing a Hierarchical Framework to Integrate Downscaled NASA's Climate Data, MODIS' NDVI and FIA/FHM Plots to Quantify and Forecast the Responses of Health Indicators to Climate and Environmental Stresses at Multiple Levels	Martin Spetich, SRS, Zhaofei Fang, Miss. State Univ.	1 of 3	\$57,000	SRS - SPS5
WC-F-08-03	Monitoring Survival of Fire-injured Trees in Oregon and Washington	Robert Progar, USFS PNW	3 of 3	\$47,000	PNW - SPS5
WC-F-09-01	Long-term Monitoring of White Pine Blister Rust Infection and Survival at 10 Sugar Pine Evaluation Sites	Jerry Hill, Rich Sniezko DGRC, Ellen Goheen FHP R6	2 of 3	\$21,000	R6 - SPS4
WC-F-09-02	Testing a new satellite-image analysis technique to monitor pest related-, fire-, and postfire-mortality in the Northwest Forest Plan area of Oregon	Warren Cohen, PNW	2 of 3	\$35,000	PNW - SPS4
WC-EM-F-10-01	Monitoring oak health and decline before and after infestation by the goldspotted oak borer (GSOB), Agrilus coxalis	Tom Coleman, FHP R5, Nancy Grulke, Steve Seybold, PSWRS	1 of 2	\$37,000	PSW - SPS4
WC-EM-F-10-02	Elkhorn & Eagle Cap Whitebark Pine Permanent Plot Re-measurements	Victoria Rockwell, Wallowa Whitman NF	1 of 1	\$31,000	R6 - SPS4
<b>Total</b>				<b>\$500,000</b>	

### Evaluation Monitoring 2010

Receiving Unit	SPFH	SPCH	SPS4	SPS5	Total
R1-FHP					\$0
R2-FHP	\$82,000				\$82,000
R3-FHP	\$71,000		\$24,000		\$95,000
R4-FHP			\$68,000		\$68,000
R5-FHP					\$0
R6-FHP	\$30,000		\$52,000		\$82,000
R8-FHP	\$30,000			\$48,000	\$78,000
R10-FHP	\$36,000				\$36,000
NA-FHP	\$30,000	\$261,000			\$291,000
NRS	\$73,000			\$48,000	\$121,000
PNW			\$35,000	\$47,000	\$82,000
PSW			\$87,000		\$87,000
RMS	\$52,000		\$34,000		\$86,000
SRS	\$69,000			\$57,000	\$126,000
<b>Total</b>	<b>\$473,000</b>	<b>\$261,000</b>	<b>\$300,000</b>	<b>\$200,000</b>	<b>\$1,234,000</b>