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10. Multistate Project No.				11. Cooperating States	
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12. Investigator Name(s) Last Name and Initials 1. deHoop, C.F.					
13. Project Contact Last Name and Initials: deHoop, C. F.				Phone: 225-578-4242 Fax: 225-578-4227	
E-Mail: cdehoop@agcenter.lsu.edu URL:					
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Goals/Objectives/Expected Outputs  OBJECTIVES: 1. Determine factors in logger accidents and injuries. 2. Determine trends in the characteristics of logger injuries. 3. Disseminate progress and results to the industry. 4. Assist the Louisiana Logging Council and the U.S. Occupational Safety and Health Administration in designating essential topics for their logging safety workshops and logging safety inspection programs. Expected Outputs: 1. Annual summaries of accident reports (each March; Objective 1). 2. Publish annual summaries in state-level trade journal (each April; Objective 3). 3. Assist logging council & OSHA in designating essential topics (each May; Obj. 4). 4. Determine significant trends in accidents (annually; Objective 2). 5. Disseminate progress & results to other venues (5 workshops per year; Obj. 3). 6. Journal Publications (annually; Objective 3). 7. Reports (annually; concerning all Objectives).					
Methods  Methodology for Objective 1 (determine factors in accidents & injuries): To determine the factors in logger accidents, the entries from the accident reports will be classified into categories describing the injuries, sources of injuries, types of accidents, and various factors that could influence the events leading up to an accident. Each January, an employee of the Louisiana Logging Council will contact the logging companies, send a copy of a blank accident form, and request that all accidents be reported. Follow-up calls will be made two weeks later to non-respondents. To encourage participation, the form will be as short as possible but will include a critical narrative section. Methodology for Objective 2 (determine trends in injuries): Now that ten years of data have been collected, some trends in the accidents will be discernable. Chi-square tests of homogeneity will be conducted to determine if the proportion of a certain category of injury was consistent throughout the study period. The data will be classified into a two-way contingency table according to two criteria: the injury characteristic and the year. To test the null hypothesis that the rows and columns of the contingency tables represent homogenous classifications, p-values will be obtained for a significance level $\alpha = 0.05$ . This test helps in determining individual elements within a particular injury category that cause significant deviations from a homogeneous pattern of injury or illness occurrence. When categories of injuries exhibit non-homogeneous patterns, Poisson residuals will be used to identify departures from homogeneity (+/- 2). Methodology for Objective 3 (Disseminate progress and results to industry): The annual summaries will be reported in the Spring issues of The Louisiana Logger magazine. It is disbursed not only to members of the Louisiana Logging Council, but also to every logger who has participated in a workshop conducted by the Louisiana Logging council. It is estimated that this covers at least 90% of the logging companies in the state. Revised versions of the reports will be sent to sister organizations in neighboring states. Methodology for Objective 4 (Assist the Louisiana					

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Logging Council and the U.S. Occupational Safety and Health Administration in designating essential topics for their logging safety workshops and logging safety inspection programs.): Each year, the PI will meet with representatives from the Louisiana Logging Council, OSHA, and Louisiana Workplace Safety to discuss changes to the safety workshops conducted by the Louisiana Logging Council. A key factor in any changes proposed will be the results of the annual summaries from the logging accident reports (as described under Methodology for Objective 1). Included in the discussion will be desired changes to topics and to teaching techniques. Any agreed changes will then be reflected in the manuals that will be distributed at the workshops. Furthermore, OSHA has agreed that under the Strategic Partnership Agreement, it will focus inspections of Partnership member companies on those topics that are emphasized in the safety workshops.

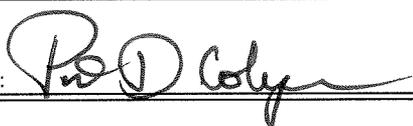
## 23. Non-Technical Summary

Accidents and injuries in the logging industry cause duress in workers and inefficiencies in the early stages of the wood supply system that resonate throughout the production chain. Since injuries represent roughly ten percent of direct labor costs in logging and more in reduced efficiency, it is important to assist the industry with expertise in accident analyses and in disseminating that knowledge. Currently accessible accident databases maintained by government agencies provide overall statistics but lack sufficient detail to improve safety activities. This project cooperates with 270 logging companies that are members of the Strategic Partnership contracted between the Louisiana Logging Council and the USDoL Occupational Safety and Health Administration (OSHA). As part of this agreement, loggers submit their accident reports annually for summary analysis in this project. The results determine the topics of emphasis in logging safety workshops and random OSHA safety inspections. The results and conclusions are disseminated through workshops, trade magazines and scientific publications. Prior work along this line has resulted in marked reduction in injuries among in-woods logging equipment operators but little improvement among log truck drivers. The current project will continue this work but with an extra emphasis on log truck drivers.

## 24. Keywords

Accidents; Injuries; Logging; Logger; OSHA; Strategic Partnership; Safety

\*\*\*\* The Original signed document is on file at this institution. \*\*\*\*

Signature	Title	Date
Dept: Admin: 	Associate Director	9/26/11