

**NPS  
PROJECT SUMMARY**

**Colorado Plateau Cooperative Ecosystem Studies Unit  
Cooperative Agreement Modification**

FUNDING AGENCY: **National Park Service**

MODIFICATION NO.: **[CESU info only]**  
(Continuation of USU-03)

COOPERATIVE AGREEMENT NO.: **1200-99-009**

FUNDING AMOUNT: **\$62,974 for year 2**

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PROJECT TITLE: **Integrated Pest Management, T&E Plant Pollinators**

EFFECTIVE DATES: **July 1, 2003 to June 30, 2004**

PROJECT ABSTRACT: Orchard pest management within Capitol Reef National Park is a complex subject involving a historic district, pesticide spraying, local families, fees for park operations, and T&E plant species, some of whose populations are in close proximity to the orchards. The purpose of this project is to determine if pesticide use on apples and pears has an impact on pollinating insects of five nearby endangered, threatened, or rare plant species. The proposed study would determine what is pollinating the rare plants, and if spraying is depressing local populations of those insects or reproduction by the plants. In addition, we seek to determine the extent to which our orchard crops are being pollinated by bee species native to the area rather than the introduced honey bee.

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**List of Key Words:** endangered, threatened, rare, plants, pollinators, orchards, pests, pesticide

**Agency Manager/Technical Representative from National Park - Include contact information @ Specific Park:**

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*Annual Report Received:*

*Final Report Received:*

*Publications on File:*

*This Modification is subject to all the provisions included in the Cooperative Agreement, **dated 6/22/99.***

*Attach any supporting material as necessary.*