

**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
INVESTIGATORS Contact Information: Dr. Diane Alston (Assoc. Prof.), Department of Biology, USU 435 797-2516 Dr. Edward Evans (Prof.), Department of Biology, USU 435 797-2552 Dr. Vincent Tepedino (Adj. Prof.), Department of Biology, USU 435 797-2559		
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.		
Agency Representative: Ron Hiebert, NPS Research Coordinator CPCEU Northern Arizona University P.O. Box 5765 Flagstaff, AZ 86011-5765 Tel: (928) 523-0877 Fax: (928) 520-8223 Ron.Hiebert@nau.edu	Agency Administration Representative Lynell Wright Budget Assistant Intermountain Support Office Denver, CO 80225-0287 Tel: (303) 969-2654 Lynell_Wright@nps.gov	Investigator: Dr. Diane Alston (Assoc. Prof.), Department of Biology, Utah State University 435 797-2516
Partner Admin. Contact: Marvin Bennett, Assistant Director of Administrative Affairs, Ecology Center, USU 435 797-2090		
List of Key Words: endangered, threatened, rare, plants, pollinators, orchards, pests, pesticide		
Agency Manager/Technical Representative from National Park - Include contact information @ Specific Park: Tom Clark Chief Resource Management & Science Capitol Reef National Park (435) 425-3791 x144		
Annual Report Received: Final Report Received: Publications on File:		
<i>This Modification is subject to all the provisions included in the Cooperative Agreement, dated 6/22/99.</i>		

Attach any supporting material as necessary.