



California Science Center  
**CALIFORNIA STATE SCIENCE FAIR**  
**2001 PROJECT SUMMARY**

**Your Name** (List all student names if multiple authors.)

**Jessica H. Duty**

**Science Fair Use Only**

**J1609**

**Project Title** (Limit: 120 characters. Those beyond 120 will be ignored. See pg. 9)

**Endangered Native Plants Reintroduced into the Wild:  
Second Year Study**

**Division**

**Junior (6-8)**  **Senior (9-12)**

**Preferred Category** (See page 5 for descriptions.)

**16 - Plant Biology**

**Abstract** (Include Objective, Methods, Results, Conclusion. See samples on page 14.)

Use no attachments. Only text inside these boxes will be used for category assignment or given to your judges.

**Purpose:** The purpose of this project is to continue a study begun last year to see if an endangered plant species, *Monardella Linoides* ssp. *Vimineae* (willoy *Monardella*), obtained from a nursery, could survive once planted in the wild (in Marian Bear Park in San Clemente Canyon). Although last year's transplants did not survive, the researcher believed transplants would survive if transplanted in a better habitat and watered more frequently.

**Results:** Although this has been an even drier winter than last year, this time 100% of the plants have survived. Last year, at the end of a six-week observation period, only three of eight plants had survived. This year, at the end of a six-week period, all eight transplants were alive, although two had aphid infestations that could indicate the plants are weak and may not survive. Also, a few seeds taken from dried seed heads were planted next to the transplants, and one germinated and has continued to grow well.

**Conclusions:** *Monardella* seems to do better when planted closer to a stream bed in sandy soil or sandy soil with small rocks, even if not planted under recommended shrub canopy. Watering three times a week instead of twice a week may be better. Testing soil for the correct mycorrhizal fungus might help ensure that plants survive.

**Summary Statement** (In one sentence, state what your project is about.)

Reintroducing endangered plants into the wild.

**Help Received in Doing Project** (e.g. Mother helped type report; Neighbor helped wire board; Used lab equipment at university X under the supervision of Dr. Y; Participant in NSF Young Scholars Program) See Display Regulation #8 on page 4.

Mother getting supplies, father for watering plants, Mother and Father, Sister for helping with backboard, Diane Ingalls helping find information and watering plants along with Patricia Valiton, Joan Turner, Milda Simonaitis, Mary Sue Webb and Lynn Karsh for watering plants. Cindy Burrascano for helping pick a transplanting site.