



Greenhouse Production of Cut Flowers

Heiner Lieth

Plant Sciences, UC Davis

530-752-7198 E-mail: jlieth@ucdavis.edu; Web site: Lieth.ucdavis.edu

Let's take a tour of California Pajarosa

- I took my Greenhouse and Nursery Production class (ENH125) there a few years ago



Let's take a tour of California Pajarosa

- Let's meet the owner: Alan Mitchell



California Pajarosa

- Website – part of marketing (They do not sell over the internet; but you may well get their flowers when you buy over the internet)



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California Pajarosa is an industry leader and pioneer in growing hydroponic roses. We offer the largest selection of domestic roses, with over 125 varieties of hybrid teas, sweethearts, and spray roses. We consistently deliver exceptional roses and unbeatable service, with an emphasis on quality.

Several new varieties just introduced!

[Click here to view the new varieties](#)



Featured Rose • May 2005



Let's take a walk through his greenhouses



But first some explanations



He grows many rose varieties



First impressions

- Cats? No employees?



Huge numbers of bushes

- Harvesting occurs twice a day (except Sunday)



Rose plants are growing in hydroponics



- Young rose plants

Alan explains about the hydroponics





Alan fields more questions from the students



A new research problem caught my eye:



Another problem caught my eye...



Production using the latest tools

- Fertilizer injection equipment



- Fertilizer by the palette





The pH of the water is a bit too high...

- By using nitric acid he get pH adjustment as well as Nitrogen for the plants



Production using the latest tools

- Capturing run-off and re-using it



Production using the latest tools

- Robotic equipment for flower grading



Grading and Bunching



Production using the latest tools

- Some are shipped “dry” (not in water)
- others are shipped “wet”



Production using the latest tools

- Cold-chain:
 - After grading and bunching, flowers need to stay cold



Production using the latest tools

- Interest in sustainable production methods

