

New Varieties for the Desert Citrus Industry

Glenn C. Wright
 Extension Citrus Specialist
 University of Arizona



Lemons

- Early season sizing
- Precocity
- High yields



Cavers Lisbon

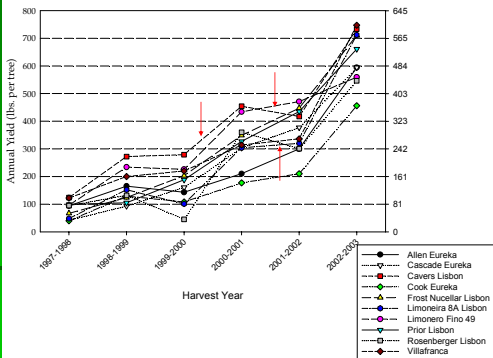


- **Early size**
- Good yield
- Fruits throughout tree
- Vigorous

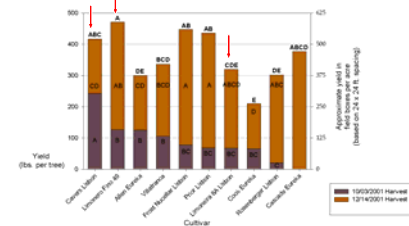
Limonero Fino 49



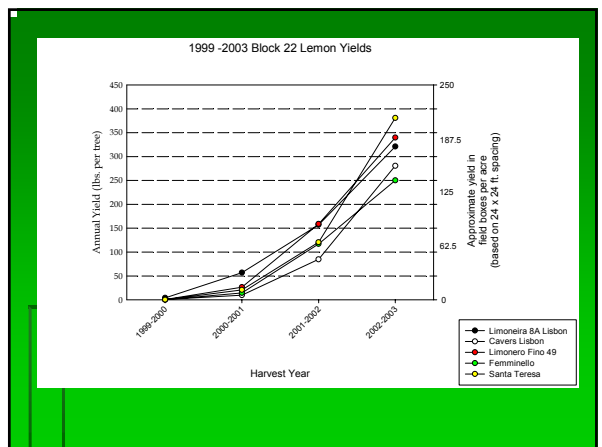
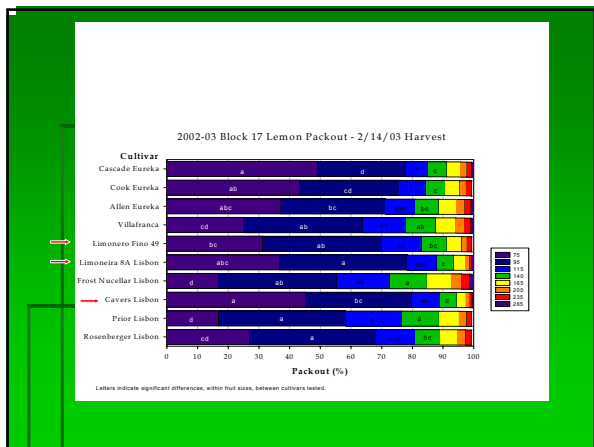
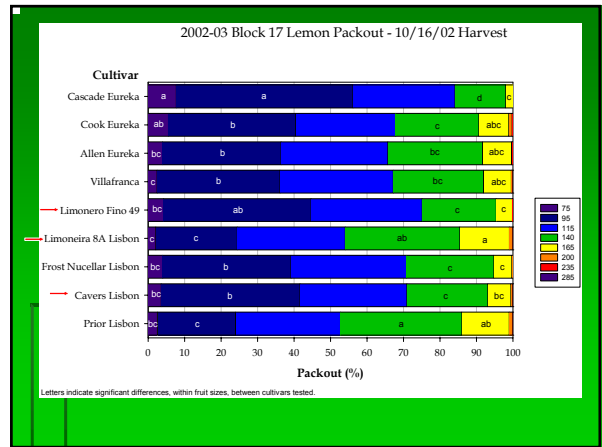
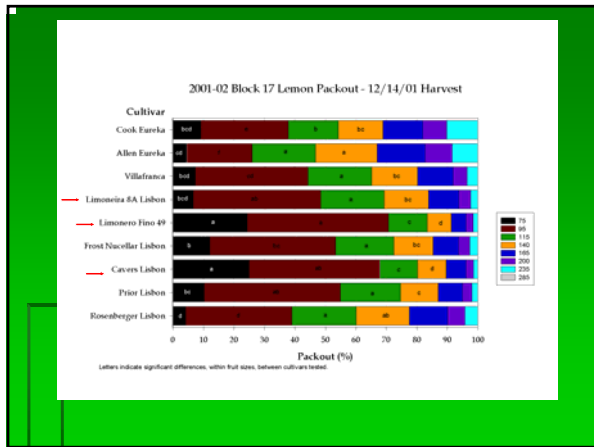
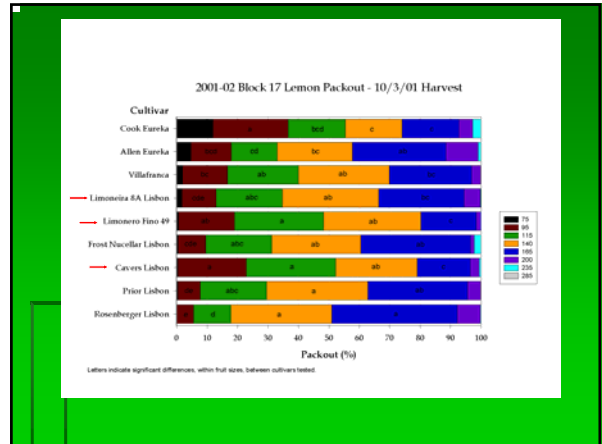
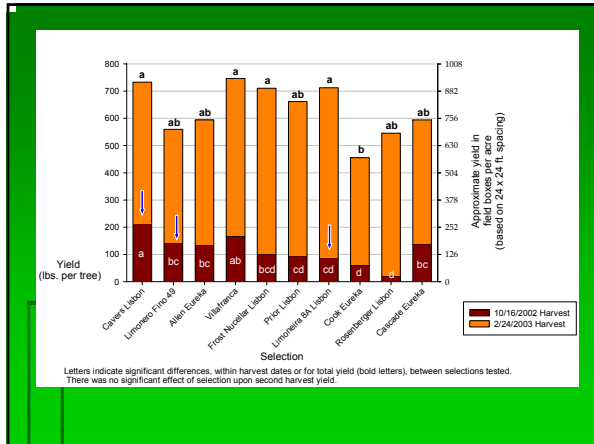
- Winter lemon of Spain
- **Early size**
- Good yield
- Thorny
- Fruits throughout tree
- Vigorous

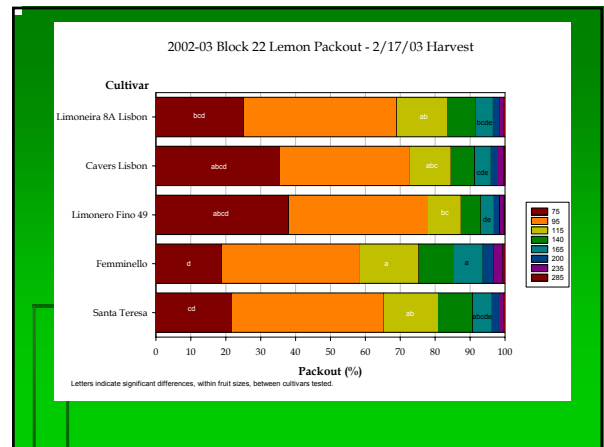
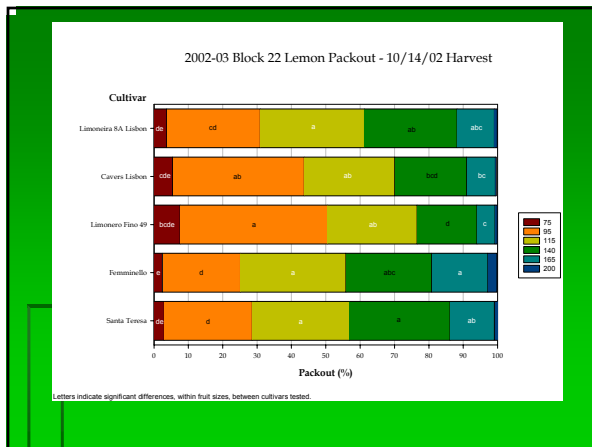
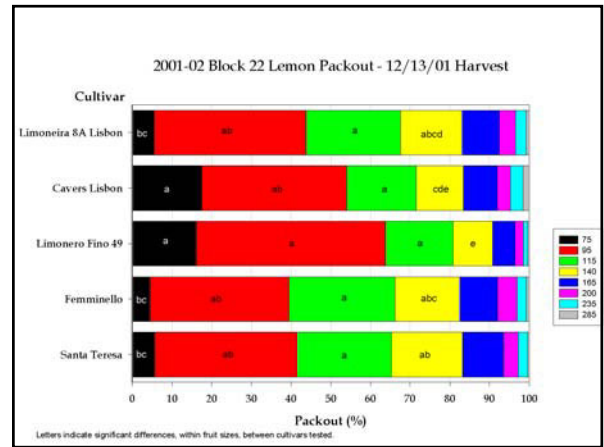
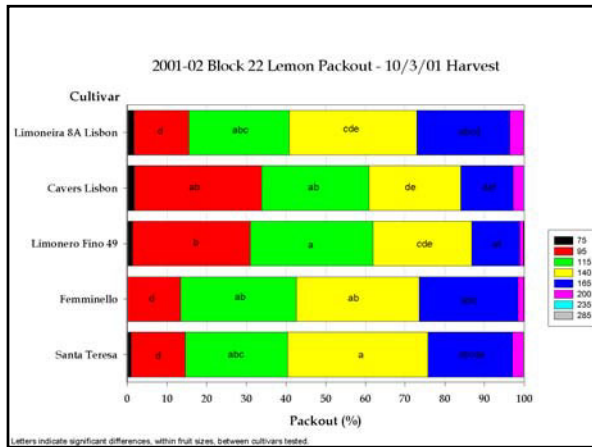
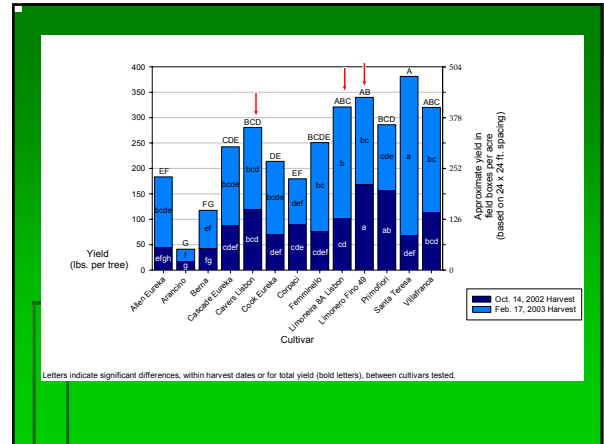
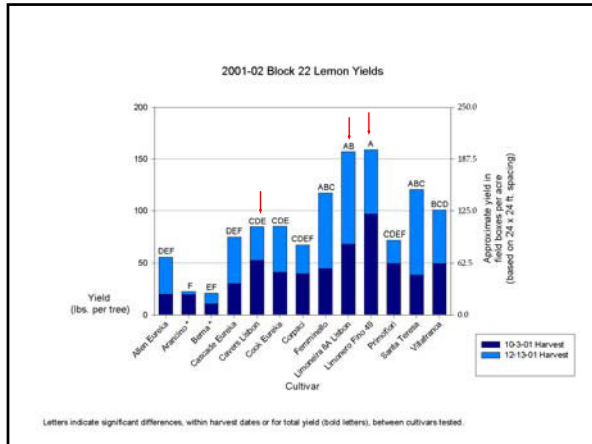


2001-02 Block 17 Lemon Yields



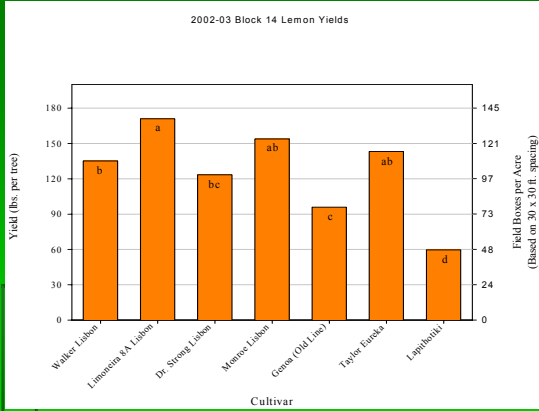
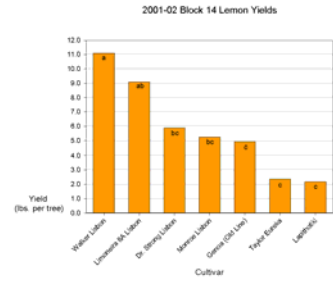
Letters indicate significant differences, within harvest dates or for total yield (total letters), between cultivars tested.





New Lemon Acquisitions

- Limonero Fino 49
- Cavers Lisbon
- Walker Lisbon
- Taylor Eureka
- Lapithotiki
- Genoa Old Line
- Monroe Lisbon
- Dr. Strong



Mandarins

- Precocity
- High yields
- No granulation
- Easy peeling
- Seedless



Fallglo Mandarin



- Excellent size
- Good yield
- Does not typically granulate
- Easy to peel
- Early
- **Seedy!**
- **Seedless budwood available soon**

Fallglo Mandarin



W. Murcott Afourer (Delite)

- Easy to peel
- Does not apparently granulate in the desert
- Late fruit (December - January)
- Not very seedy especially if isolated
- Smaller fruit (Medium and Large)
- Market window?



Table 1. Cultivar Effects on Seediness and Internal Quality

Scion	Seeds (#/fruit)	SSC (%)	Total Acid (%)	SSC/TA
C. Fina	b 9.67	b 10.88	c 1.06	c 10.33
C. Calfin	d 6.18	e 10.42	d 0.95	b 10.97
Clausellina	f 0.00	e 7.95	f 0.72	b 11.11
C. Aissa	c 1.64	bc 10.68	e 1.04	c 10.26
Fallglo	a 13.08	b 10.89	b 1.17	d 9.31
Kuno Wase	e 1.46	d 8.42	e 0.82	c 10.30
W. Murcott	d 6.07	a 12.87	d 0.94	a 13.80
C. Oroval	d 0.28	b 10.87	a 1.27	e 8.53

11/5/99

2/28/00

Table 2. Cultivar Effects on Yield in Terms of Pounds Per Tree and Fruit Number in Each Size Category

Scion	Yield (lbs.)	Small	Medium	Large	Jumbo	Mammoth	Colossal	Super Colossal
C. Fina	bc 54.13	a 13.64	a 186.42	b 120.97	c 8.08	d 0.75	b 0.17	b 0.19
C. Calfin	e 15.53	bc 5.81	cd 32.97	c 34.97	c 11.11	d 0.19	b 0.03	b 0.03
Clausellina	e 17.10	cd 0.34	de 2.57	cd 11.71	e 29.17	b 15.37	b 0.46	b 0.00
C. Aissa	cd 49.61	bcd 5.47	b 150.39	ab 147.51	c 11.47	d 0.25	b 0.06	b 0.03
Fallglo	e 24.14	d 0.00	e 0.03	d 0.61	e 17.94	a 46.14	b 0.42	b 0.03
Kuno Wase	d 37.60	d 0.06	c 0.44	cd 3.08	c 22.89	e 55.78	a 10.64	a 3.86
W. Murcott	a 84.11	b 7.83	e 45.94	a 169.36	a 180.28	bc 12.86	b 0.14	b 0.06
C. Oroval	b 64.10	cd 0.95	c 11.69	bc 164.25	b 49.22	cd 4.89	b 0.03	b 0.06

11/5/99

2/28/00

TDE's and Gold Nugget

- Seedless, easy peeling
- Yield?
- Market window?



Mandarin Trials in progress or planned

- Fallglo Trial – Terminated October 2002
- Seedless Fallglo
 - Yuma – Jan. 2004 (bud seedlings)
- Delite
 - Phoenix – April 2002 (planted)
 - Yuma – June 2003 (planted)
 - Yuma – April 2004 (bud seedlings)
- TDE 4 4
 - Yuma - April 2004 (bud seedlings)
- Gold Nugget
 - Phoenix – April 2002 (planted)
 - Yuma – April 2004 (bud seedlings)