## CALIFORNIA and WORLD OLIVE OIL STATISTICS

Production Short Course April 1 and 2, 2004

## How important is Olive Oil?


"Let's face it. It's all about olive oil."

## World Olive Oil Production



Olive oil represents about $3 \%$ of all fats and oils consumed in the world

## WORLD OLIVE OIL PRODUCTION



## WORLD OLIVE ACREAGE

- Spain ~ 6 million $25 \%$
- Tunisia ~ 3.8 million $16 \%$
- Italy ~ $\mathbf{3 . 5}$ million $15 \%$
- Greece 2.5 million $11 \%$
- Portugal 1.3 million $6 \%$
- Turkey 1.2 million 5\%
- Morocco 1.1 million 5\%
- Syria 1.0 million $5 \%$
- Argentina 245,000 $1 \%$
- Australia ~ 100,000 0.4\%
- USA ~ 35,000 table 0.15\%
~ 5,000 oil 0.02\%
- World ~ 23.3 million


## WORLD OLIVE OIL CONSUMPTION



## PER CAPITA CONSUMPTION OF OLIVE OIL



# Olive Oil <br> <br> Per Capita Consumption 

 <br> <br> Per Capita Consumption}

Greece
Spain
Italy
EU
Australia
USA
26.1 liters ( $1 / 2 /$ liter/wk)
15.0 liters
13.5 liters
5.4 liters
1.2 liters
0.6 liters

Source: IOOC data 2002

## SPANISH OLIVE OIL TRENDS

- 6 million acres of olives
- 80 \% non irrigated - 1 ton/acre
- 1 million new acres in last 10 years
- Irrigated - 4 tons/acre annually
- Super-high-density System
- EU subsidy ~ \$0.70/liter (not for new plantings)
- Subsidy \$100-200/acre for organic
- Most excess sold to Italy
- 700-1500 new brands in last 3 years



## Spanish Production by Region

- Andalucia ~ 80\%
- Castilla La Mancha ~ 7\%
- Extremadura ~ 5\%
- Catalonia ~ 4\%
- Comunidad Valenciana ~ 3\%





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## Spanish Mills

- ~ 2,000 total
- Many large mills are cooperatives
- Numerous small artisan mills
- $90 \%+2$ phase decanters
- 700 to $\mathbf{1 , 5 0 0}$ brands in last 3 years


## Carcabuey Mill 8 lines - 600 tons per day





## Italy Trends

- 20-24\% of production with $15 \%$ trees
- 6,300 Mills - mostly artisan (5 tons/day)
- Some large in the South - 85\% of oil
- Tuscany = 3.2\%
- Small properties and high labor costs
- No excess production
- Buys bulk - refines - blends - resells


## Italian Production by Region

- Liguria - 1\%
- Toscana-3.2\%
- Umbria - 1.9\%
- Lazio - 4.5\%
- Abruzzo - 3.7\%
- Puglia - 42\%
- Calabria - 23\%
- Sardinia - 7\%

- Scicily - 10\%
- Other - 5\%



## Spain \& Italy Orchards

## Italy

All ag in Olives
New plantings
Growers with < 1 hectare
1-3 hectares
3 - 30 hectares
30 - 200 hectares
200-1,000 hectares

5\%
~ 0 acres
42\%
31\%
27\%
Few $\sim 0$

15\%
~ 1 million acres
$\sim 0$
11\%
47\%
32\%
10\%

## Spanish \& Italian Mills <br> 1999

|  | Italy | Spain |
| :---: | :---: | :---: |
| Number of mills | 6,200 | 1,850 |
| Mill types | 11\% press 50\% 3-phase 39\% 2-phase | 3\% press <br> 10\% 3-phase <br> 87\% 2-phase |
| Size | Small | Large |



## Greek Trends

- Modernized out of 3rd World Presses
- Decanters 2 \& 3 phase
- $10 \%$ of trees = 17\% production
- Many small farms
- Crete 30\% - Peloponisos 30\%
- Bulk sales to Italy
- Internal consumption - low cost




## New Artisan Products



## Low Cost Bulk Products

## North Africa \& Mid-East

Tunisia, Turkey, Syria, Morocco, Algeria, Libya, Egypt, Israel, Palestinian National Authority, Jordan, and Lebanon

- Very dry - low production
- ~ 50\% acreage ~ 20\% production
- Old equipment
- Poor sanitation
- Low wages and prices
- Heat
- New investment from US and Europe


## New World

- Australia - soon 4-5\% of world's EV
- New Zealand - Small artisan
- Argentina - 100,000 - 250,000 acres
- Chile - 5,000 acres
- China - ??????
- Mexico - South Africa - Brazil - Peru


## FATS \& OILS CONSUMED IN THE US MARKET (2001)



Packaged Foods, New York

## Olive Oil Sales in US Markets

 1994 to 19951995 to 1996

+ 12\%
$+27 \%$
1996 to 1997
+ 31\%
1997 to 1998
1999 to 2000
2000 to 2001
$+1 \%$
1991 to 2003


## OLIVE OIL IN CALIFORNIA

 -California Production \& Potential

## CA ESTIMATES \& TRENDS

~ 35,000 acres - table olives
~ 3,000 new acres - oil olives
$\sim 4,000$ acres of - old oil olives
$\sim 350,000$ gallons of CA oil in 2003
US consumption up $\sim 100 \%$ in 8 years
US imports $\sim 60$ million gallons
California produces ~0.6\% of US consumption
(at 4 tons/acre \& $40 \mathrm{gal} /$ ton $=375,000$ acres)

## CAL OIL OLIVE ACREAGE (est.)

- Calaveras- El Dorado - Placer - Nevada 200
- Ventura - SLOB - Sta. Barbara 600
- Solano - Yolo
- Marin - Sonoma
- Napa
- Butte - Glen - Tehama
- LA - San Diego
- Other

| (old 500) | 520 |
| :--- | :---: |
| (old 500) | 400 |
| (old 1,200) | 650 |
|  | 150 |
|  | $\underline{300}$ |
| TOTAL | 3,000 |

35,000 acres of table olives - 80\% Manzanillo - 5\% Mission

## California Olive Oil Production in Gallons

$$
\begin{array}{l|l}
\hline 1996-1997 & 123,000 \\
\hline 1997-1998 & 200,000 \\
\hline 1998-1999 & 236,000 \\
\hline 1999-2000 & 250,000 \\
\hline 2000-2001 & 135,000 \\
\hline 2001-2002 & 350,000 \\
\hline 2002-2003 & 400,000
\end{array}
$$

# PRICES FOR OILS (Euros) January 2002 

## BULK

- Virgin Spain - 2.64/kg
- Extra Virgin Italy $2.79 / \mathrm{kg}$
- Refined Spain - 1.89/kg
- Refined Italy - 1.96/kg
- Lamp oil Spain - 0.54/kg
- Pomace oil - 0.28/kg
- Olive - Sunflower $0.29 / \mathrm{kg}$
- Sunflower Italy - 0.82/kg


## RETAIL IN MADRID

- Carbonell refined 2.55/L - Cazorliva EV 2.20/L
- Parqueoliva 4.69/0.75L
- Oleastrum EV 5.91/0.75L
- Nuñez de Prado EV 4.87/0.5L
- Lerida EV 11.48/L
- Fuenroble EV 17.06/L
(California bulk = \$22/gallon)
(California retail = \$15-\$20/bottle)


## LOWERING COSTS

- Mechanize Harvest
- Reduce cultural costs
- Lower land costs
- Come into production early (3 ${ }^{\text {rd }} \mathbf{y r}$.)
- Consistent - High annual yields
- Lower Marketing costs
- Direct Sales from Tasting Room



## SUPER-HIGGI DENSITY PRODUCTION SYSTEM

## -5 x $13=670$ trees/acre $4 \times 12=907$ trees/acre

## -Arbequina - Arbosana - Koroneiki

## Production Cost Comparisons

Coastal High Density Oil

- Establishment \$11,128/acre
- Production
\$4,600/acre
- 2.5 tons/acre
- \$1,840/ton
- Full production 10 yrs

Valley Super-HighDensity Oil

- Establishment \$9,000/acre
- Production \$2,349/acre
- 5 tons/acre
- \$470/ton
- Full production 5 yrs

Red Wine Coastal

- Establishment \$23,709/acre
- Production \$7,000/acre
- 5 tons/acre
- \$1,400/ton
- Full production 5 yrs


## What Costs? PER ACRE

- Land (Capitol Recovery) - 13\% to 25\%
- Marketing - $17 \%$ to $18 \%$
- Overhead - 4.7\% to 5.5\%

Coastal - 47.5\% reduction
Central Valley - 35.7\% reduction

