

# State of Lemons Planting

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# Background

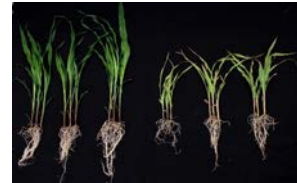
## Education:

Ain Shams University, Cairo, Egypt  
Ain Shams University, Cairo, Egypt  
Toulouse University, France

Horticulture B.Sc.  
Pomology M.Sc.  
Grapevine Physiology Ph.D.

## Professional experience:

**Assistant and associate professor:** Ain shams university, Egypt  
Fruit trees production and physiology including citrus



**Postdoctoral scholar:** University of Manitoba and University of Guelph, Canada  
Nitrogen use efficiency, plant tolerance to abiotic stress, hormones signaling in plants



**Viticulture and small fruit advisor:** UCANR- Kern County Cooperative Extension  
Optimization of cultural practices in table grapes, improve fruit quality, pruning, preharvest disorders.



# Current projects

Preharvest mandarin rind disorder



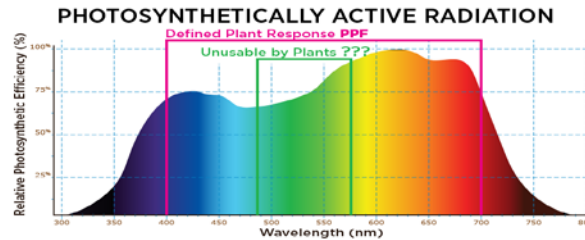
Effect of different ground reflective covers on Tango mandarin



Involved in the Citrus Under Protective Screen (CUPS) project



Cold tolerance in citrus



# USA Citrus Production

**Citrus Acreage, Production, Utilization, and Value – States and United States: 2015-2016, 2016-2017, and 2017-2018**

State and season	Bearing acreage	Production			Value of production <sup>1</sup>
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
<b>Arizona</b>					
2015-2016 .....	7,500	64	55	9	59,026
2016-2017 .....	7,300	62	45	17	45,700
2017-2018 .....	7,300	40	32	8	34,197
<b>California</b>					
2015-2016 .....	270,500	4,200	3,138	1,062	2,047,451
2016-2017 .....	267,400	3,880	3,048	832	2,221,762
2017-2018 .....	265,300	3,592	2,880	712	2,438,026
<b>Florida</b>					
2015-2016 .....	435,300	4,221	443	3,778	1,248,449
2016-2017 .....	410,700	3,505	317	3,188	1,178,085
2017-2018 .....	400,900	2,224	221	2,003	710,247
<b>Texas</b>					
2015-2016 .....	24,500	263	158	105	80,749
2016-2017 .....	24,400	250	162	88	86,578
2017-2018 .....	24,400	272	175	97	100,618
<b>United States</b>					
2015-2016 .....	737,800	8,748	3,794	4,954	3,435,675
2016-2017 .....	709,800	7,697	3,572	4,125	3,532,125
2017-2018 .....	697,900	6,128	3,308	2,820	3,283,088

<sup>1</sup> Packinghouse-door equivalents.

# USA Citrus Acreage (2016-2018)

Type	Acres standing in 2016			Acres standing in 2018		
	Bearing	Non-bearing	Total	Bearing	Non-bearing	Total
Grapefruit <sup>1/</sup>	8,218	276	8,493	8,028	199	8,226
Lemons	41,487	3,134	44,621	41,858	3,532	45,389
Limes	482	149	631	609	21	630
Oranges, Navel	116,672	4,112	120,784	113,163	4,175	117,338
Oranges, Valencia	29,738	168	29,906	28,218	430	28,648
Pummelos and Hybrids	1,117	27	1,144	1,118	43	1,160
Mandarins & Mandarin Hybrids	50,387	8,554	58,941	57,125	4,156	61,282

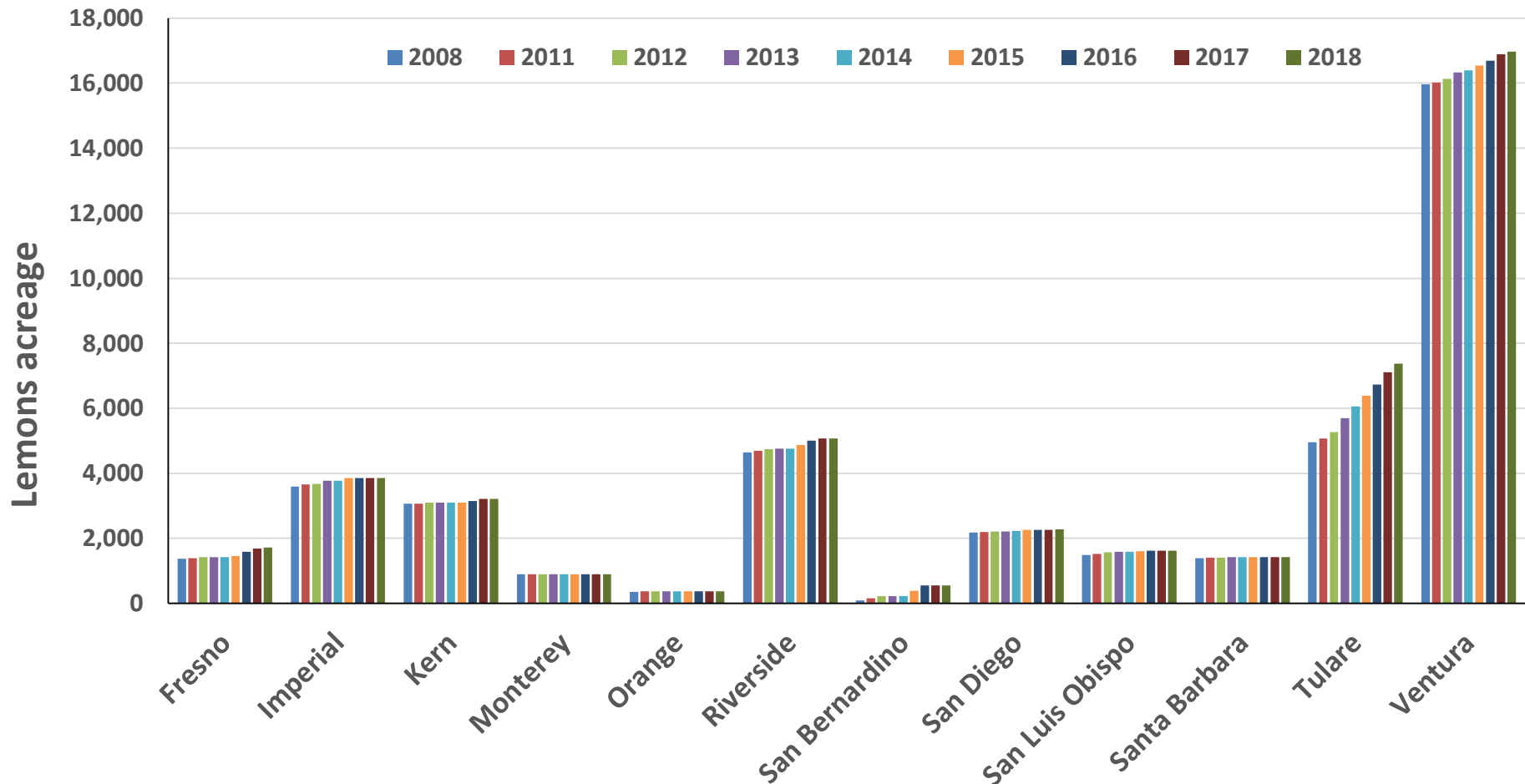
<sup>1/</sup> Excludes Pummelos and Hybrids.

# USA Lemons Production

**Citrus Acreage, Production, Utilization, and Value by Crop – United States: 2015-2016, 2016-2017, and 2017-2018**

Crop and season	Bearing acreage	Production			Value of production <sup>1</sup>
		Total	Utilization		
			Fresh	Processed	
	(acres)	(1,000 tons)	(1,000 tons)	(1,000 tons)	(1,000 dollars)
<b>Lemons</b>					
2015-2016 .....	54,500	904	695	209	755,086
2016-2017 .....	54,300	882	701	181	763,446
2017-2018 .....	54,300	888	680	208	715,761

# California Lemons Production (2010-2018)



# Bearing and Non-bearing acreage in California counties

	Fresno	Imperial	Kern	Monterey	Orange	Riverside	San Bernardino	San Diego	San Luis Obispo	Santa Barbara	Tulare	Ventura	Others	STATE TOTAL
Bearing	1,427	3,777	3,096	896	365	4,757	225	2,219	1,579	1,420	5,691	16,329	79	41,858
Non-bearing	291	77	110	0	10	319	320	53	35	1	1,676	641	0	3,532
Total	1,717	3,854	3,206	896	375	5,076	545	2,272	1,614	1,420	7,367	16,969	79	45,389
Increase (%)	20	2	4	0	3	7	142	2	2	0	29	4	0	8

Double of the production of San Bernardino

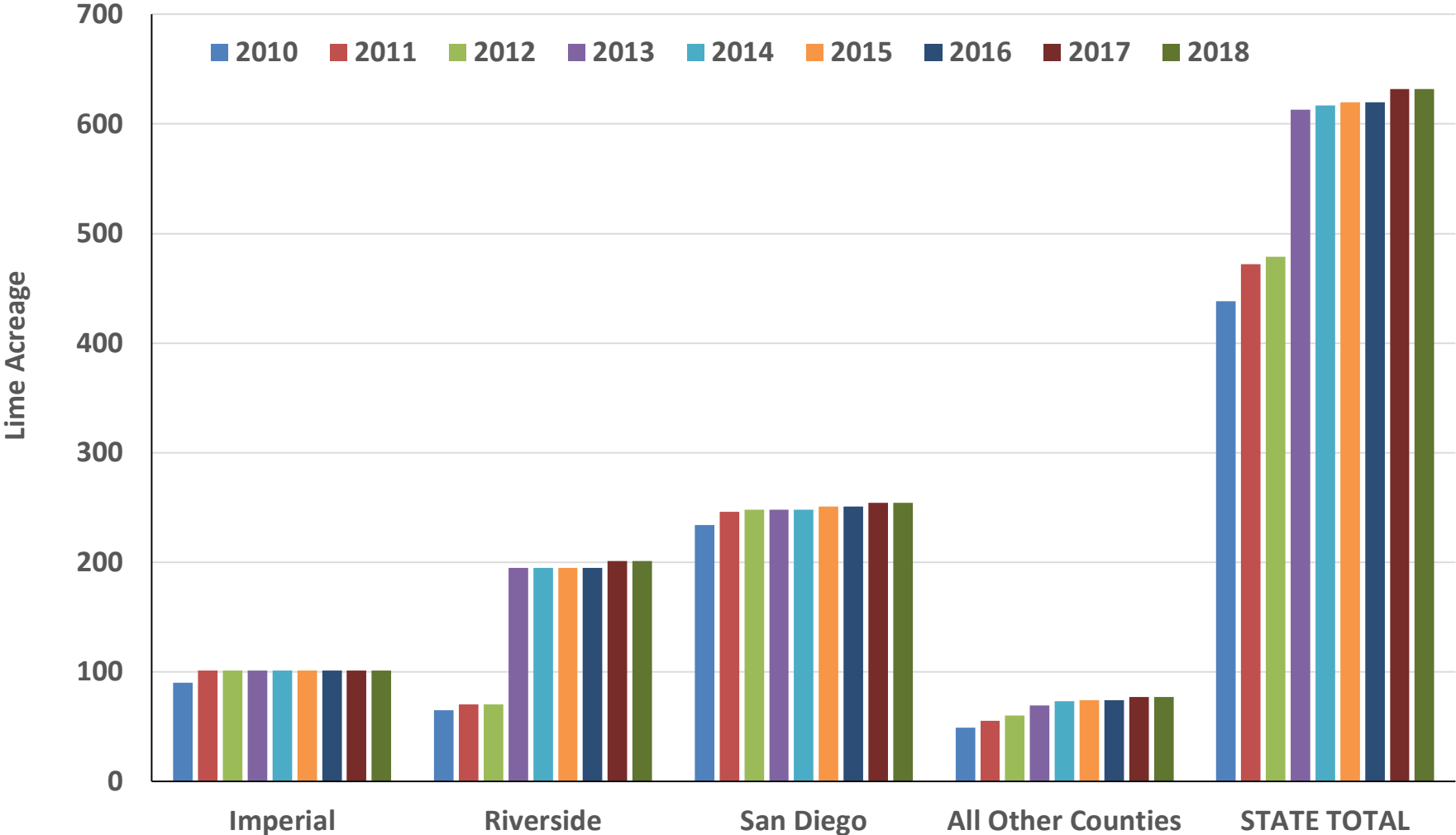
Increase the production of Fresno, and Tulare by 20 and 29% respectively

No new counties will produce lemons

Increase of the total production by 8%



# Lime Acreage in California



# Total Lime Acreage in California

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	<b>Bearing</b>	<b>Non-bearing</b>	<b>Total</b>
<b>Imperial</b>	<b>101</b>	<b>0</b>	<b>101</b>
<b>Riverside</b>	<b>194</b>	<b>6</b>	<b>200</b>
<b>San Diego</b>	<b>247</b>	<b>6</b>	<b>253</b>
<b>All Other Counties</b>	<b>66</b>	<b>10</b>	<b>76</b>
<b>STATE TOTAL</b>	<b>609</b>	<b>21</b>	<b>630</b>

# Lemons World Markets and Trade

**Lemons and Limes, Fresh: Production, Supply and Distribution in Selected Countries**  
(1,000 Metric Tons)

	2014/15	2015/16	2016/17	2017/18	Feb 2018/19	Jul 2018/19
<b>Production</b>						
Mexico	2,326	2,416	2,513	2,570	2,600	2,600
Argentina	1,450	1,350	1,450	1,770	1,600	1,630
European Union	1,597	1,333	1,535	1,472	1,615	1,617
Turkey	725	670	850	1,000	948	1,100
United States	820	820	800	806	777	813
South Africa	339	308	430	460	480	490
Israel	65	60	67	65	75	75
Other	87	93	99	86	90	90
<b>Total</b>	<b>7,409</b>	<b>7,050</b>	<b>7,744</b>	<b>8,229</b>	<b>8,185</b>	<b>8,415</b>

# Lemons World Markets and Trade

Lemons and Limes, Fresh: Production, Supply and Distribution in Selected Countries  
(1,000 Metric Tons)

	2014/15	2015/16	2016/17	2017/18	Feb 2018/19	Jul 2018/19
<b>Fresh Dom. Consumption</b>						
European Union	1,537	1,582	1,692	1,735	1,829	1,811
Mexico	1,358	1,383	1,397	1,451	1,482	1,444
United States	1,004	1,135	1,222	1,222	1,257	1,300
Turkey	238	200	319	372	291	478
Russia	206	184	210	216	217	222
Argentina	70	70	90	150	100	150
Saudi Arabia	103	121	126	143	135	145
Canada	87	102	96	97	98	110
United Arab Emirates	100	97	92	82	90	85
Israel	60	55	60	60	67	67
Other	187	177	193	195	186	188
<b>Total</b>	<b>4,950</b>	<b>5,106</b>	<b>5,497</b>	<b>5,723</b>	<b>5,752</b>	<b>6,000</b>
<b>For Processing</b>						
Argentina	1,195	1,004	1,122	1,348	1,210	1,280
Mexico	360	374	388	394	397	395
European Union	353	243	284	282	326	326
United States	265	190	164	189	175	180
South Africa	79	56	115	127	130	130
Turkey	57	40	40	50	50	50
Japan	27	29	31	30	30	30
Other	2	2	4	4	5	5
<b>Total</b>	<b>2,338</b>	<b>1,938</b>	<b>2,148</b>	<b>2,424</b>	<b>2,323</b>	<b>2,396</b>

# World Markets and Trade

## Lemons and Limes, Fresh: Production, Supply and Distribution in Selected Countries

(1,000 Metric Tons)

	2014/15	2015/16	2016/17	2017/18	Feb 2018/19	Jul 2018/19
<b>Exports</b>						
Mexico	610	662	731	729	725	765
Turkey	433	434	495	581	610	575
South Africa	246	237	299	315	330	340
Argentina	185	279	241	273	290	200
United States	114	110	112	97	90	93
European Union	106	69	79	65	80	80
Hong Kong	18	17	20	13	15	15
Other	11	14	19	13	23	21
<b>Total</b>	<b>1,723</b>	<b>1,822</b>	<b>1,996</b>	<b>2,086</b>	<b>2,163</b>	<b>2,089</b>
<b>Imports</b>						
United States	563	615	698	702	745	760
European Union	399	561	520	610	620	600
Russia	207	186	213	219	220	225
Saudi Arabia	103	121	126	143	135	145
Canada	87	102	96	97	98	110
United Arab Emirates	94	91	86	77	85	80
Japan	51	51	53	53	52	55
Ukraine	44	41	47	55	50	50
Hong Kong	48	37	47	39	40	37
Mexico	2	3	3	4	4	4
Other	4	8	8	5	4	4
<b>Total</b>	<b>1,602</b>	<b>1,816</b>	<b>1,897</b>	<b>2,004</b>	<b>2,053</b>	<b>2,070</b>

# Thanks

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