



# EarthBox<sup>®</sup> Citrus Economics

## TIMELINE CUMULATIVE P&L for EarthBox FRESH TANGERINES

YEAR	EXPENSES	BOXES/ACRE	\$ / BOX	\$/ ACRE	P/L/ACRE	CUM P&L/ACRE
1	\$ 17,709	0	\$ 0.00	\$ 0	\$ (17,709)	\$ (17,709)
2	\$ 900	75	\$ 0.00	\$ 0	\$ (900)	\$ (18,609)
3	\$ 900	150	\$ 12.50	\$ 1,875	\$ 975	\$ (17,634)
4	\$ 1,000	400	\$ 12.50	\$ 5,000	\$ 4,000	\$ (13,634)
5	\$ 1,000	500	\$ 12.50	\$ 6,250	\$ 5,250	\$ (8,384)
6	\$ 1,000	600	\$ 12.50	\$ 7,500	\$ 6,500	\$ (1,134)
7	\$ 1,100	600	\$ 12.50	\$ 7,500	\$ 6,400	\$ (4,734)
8	\$ 1,100	600	\$ 12.50	\$ 7,500	\$ 6,400	\$ 1,666
9	\$ 1,200	600	\$ 12.50	\$ 7,500	\$ 6,300	\$ 7,966
10	\$ 1,200	600	\$ 12.50	\$ 7,500	\$ 6,300	\$ 14,266
11	\$ 1,200	600	\$ 12.50	\$ 7,500	\$ 6,300	\$ 20,566
12	\$ 1,200	600	\$ 12.50	\$ 7,500	\$ 6,300	\$ 26,866
13	\$ 1,200	600	\$ 12.50	\$ 7,500	\$ 6,300	\$ 33,166
14	\$ 1,300	600	\$ 12.50	\$ 7,500	\$ 6,200	\$ 39,366
15	\$ 1,300	600	\$ 12.50	\$ 7,500	\$ 6,200	\$ 45,566
16	\$ 1,300	600	\$ 12.50	\$ 7,500	\$ 6,200	\$ 51,766
17	\$ 1,300	600	\$ 12.50	\$ 7,500	\$ 6,200	\$ 57,966
18	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 64,066
19	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 70,166
20	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 76,266
21	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 82,366
22	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 88,466
23	\$ 1,400	600	\$ 12.50	\$ 7,500	\$ 6,100	\$ 94,566

## TIMELINE CUMULATIVE P&L for Conventional FRESH TANGERINES

YEAR	EXPENSES	BOXES/ACRE	\$ / BOX	\$/ ACRE	P/L/ACRE	CUM P&L/ACRE
1	\$ 2,300	0	\$ 0.00	\$ 0	\$ (2,300)	\$ (2,300)
2	\$ 3,000	0	\$ 0.00	\$ 0	\$ (3,000)	\$ (5,300)
3	\$ 900	0	\$ 0.00	\$ 0	\$ (900)	\$ (6,200)
4	\$ 900	0	\$ 0.00	\$ 0	\$ (900)	\$ (7,100)
5	\$ 900	100	\$ 10.00	\$ 1,000	\$ 100	\$ (7,000)
6	\$ 1,000	200	\$ 10.00	\$ 2,000	\$ 1,000	\$ (5,200)
7	\$ 1,000	300	\$ 10.00	\$ 3,000	\$ 2,000	\$ (3,200)
8	\$ 1,000	400	\$ 10.00	\$ 4,000	\$ 3,000	\$ (200)
9	\$ 1,200	400	\$ 10.00	\$ 4,000	\$ 2,800	\$ 2,600
10	\$ 1,200	400	\$ 10.00	\$ 4,000	\$ 2,800	\$ 5,400
11	\$ 1,200	400	\$ 10.00	\$ 4,000	\$ 2,800	\$ 8,200
12	\$ 1,200	400	\$ 10.00	\$ 4,000	\$ 2,800	\$ 11,000
13	\$ 1,200	400	\$ 10.00	\$ 4,000	\$ 2,800	\$ 13,800
14	\$ 1,300	400	\$ 10.00	\$ 4,000	\$ 2,700	\$ 16,500
15	\$ 1,300	400	\$ 10.00	\$ 4,000	\$ 2,700	\$ 19,200
16	\$ 1,300	400	\$ 10.00	\$ 4,000	\$ 2,700	\$ 21,900
17	\$ 1,300	400	\$ 10.00	\$ 4,000	\$ 2,700	\$ 24,600
18	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 27,200
19	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 29,800
20	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 32,400
21	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 35,000
22	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 37,600
23	\$ 1,400	400	\$ 10.00	\$ 4,000	\$ 2,600	\$ 40,200



# EarthBox<sup>®</sup> Citrus Economics

## TIMELINE CUMULATIVE P&L for EarthBox FRESH VALENCIA

YEAR	EXPENSES	BOXES/ACRE	\$ / BOX	\$/ ACRE	P/L/ACRE	CUM P&L/ACRE
1	\$ 17,709	0	\$ 0.00	\$ 0	\$ (17,709)	\$ (17,709)
2	\$ 900	50	\$ 7.00	\$ 350	\$ (550)	\$ (18,259)
3	\$ 900	150	\$ 7.00	\$ 1,050	\$ 150	\$ (18,109)
4	\$ 1,000	400	\$ 7.00	\$ 2,800	\$ 1,800	\$ (16,309)
5	\$ 1,000	700	\$ 7.00	\$ 4,900	\$ 3,900	\$ (12,409)
6	\$ 1,100	850	\$ 7.00	\$ 5,950	\$ 4,850	\$ (13,259)
7	\$ 1,100	850	\$ 7.00	\$ 5,950	\$ 4,850	\$ (8,409)
8	\$ 1,100	850	\$ 7.00	\$ 5,950	\$ 4,850	\$ (3,559)
9	\$ 1,200	850	\$ 7.00	\$ 5,950	\$ 4,750	\$ 1,191
10	\$ 1,200	850	\$ 7.00	\$ 5,950	\$ 4,750	\$ 5,941
11	\$ 1,200	850	\$ 7.00	\$ 5,950	\$ 4,750	\$ 10,691
12	\$ 1,200	850	\$ 7.00	\$ 5,950	\$ 4,750	\$ 15,441
13	\$ 1,200	850	\$ 7.00	\$ 5,950	\$ 4,750	\$ 20,191
14	\$ 1,300	850	\$ 7.00	\$ 5,950	\$ 4,650	\$ 24,841
15	\$ 1,300	850	\$ 7.00	\$ 5,950	\$ 4,650	\$ 29,491
16	\$ 1,300	850	\$ 7.00	\$ 5,950	\$ 4,650	\$ 34,141
17	\$ 1,300	850	\$ 7.00	\$ 5,950	\$ 4,650	\$ 38,791
18	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 43,341
19	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 47,891
20	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 52,441
21	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 56,991
22	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 61,541
23	\$ 1,400	850	\$ 7.00	\$ 5,950	\$ 4,550	\$ 66,091

## TIMELINE CUMULATIVE P&L for Conventional FRESH VALENCIA

YEAR	EXPENSES	BOXES/ACRE	\$ / BOX	\$/ ACRE	P/L/ACRE	CUM P&L/ACRE
1	\$ 2,300	0	\$ 0.00	\$ 0	\$ (2,300)	\$ (2,300)
2	\$ 3,000	0	\$ 0.00	\$ 0	\$ (3,000)	\$ (5,300)
3	\$ 900	0	\$ 0.00	\$ 0	\$ (900)	\$ (6,200)
4	\$ 900	0	\$ 0.00	\$ 0	\$ (900)	\$ (7,100)
5	\$ 900	150	\$ 6.00	\$ 900	\$ 0	\$ (7,100)
6	\$ 1,000	300	\$ 6.00	\$ 1,800	\$ 800	\$ (5,400)
7	\$ 1,000	450	\$ 6.00	\$ 2,700	\$ 1,700	\$ (3,700)
8	\$ 1,000	600	\$ 6.00	\$ 3,600	\$ 2,600	\$ (1,100)
9	\$ 1,200	600	\$ 6.00	\$ 3,600	\$ 2,400	\$ 1,300
10	\$ 1,200	600	\$ 6.00	\$ 3,600	\$ 2,400	\$ 3,700
11	\$ 1,200	600	\$ 6.00	\$ 3,600	\$ 2,400	\$ 6,100
12	\$ 1,200	600	\$ 6.00	\$ 3,600	\$ 2,400	\$ 8,500
13	\$ 1,200	600	\$ 6.00	\$ 3,600	\$ 2,400	\$ 10,900
14	\$ 1,300	600	\$ 6.00	\$ 3,600	\$ 2,300	\$ 13,200
15	\$ 1,300	600	\$ 6.00	\$ 3,600	\$ 2,300	\$ 15,500
16	\$ 1,300	600	\$ 6.00	\$ 3,600	\$ 2,300	\$ 17,800
17	\$ 1,300	600	\$ 6.00	\$ 3,600	\$ 2,300	\$ 20,100
18	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 22,300
19	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 24,500
20	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 26,700
21	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 28,900
22	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 31,100
23	\$ 1,400	600	\$ 6.00	\$ 3,600	\$ 2,200	\$ 33,300



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## DEVELOPMENT SEGMENTS

## Conventional COST/NET ACRE

## EarthBox COST/NET ACRE

Topo Maps and Aerials	\$ 0	\$ 0	
Get Appropriate Permits	\$ 13	\$ 13	
Soil Sampling	\$ 8	\$ 8	
Grove Design Layout of Each Block	\$ 3	\$ 6	
Select Variety for Each Block		\$ 0	use cutting/ no budded trees
Order Trees (\$ 6.50 tree, 193 tree/acre)	\$ 1,254	\$ 1,089	726 tree/acre @ \$1.50
Land Clearing and Leveling	\$ 450	\$ 300	
Road Infrastructure/ Preplan Harvesting Traffic	\$ 100	\$ 100	
Irrigation Design	\$ 50	\$ 75	
Irrigation Installation	\$ 1,800	\$ 2,500	if micro jet + drip/
Buildings and Equipment	\$ 845	\$ 500	lower equip costs
Plant Ground Cover	\$ 50	\$ 50	
Plant Trees (\$4.00/tree)	\$ 772	\$ 1,452	726 tree/acre @ \$2.00
EarthBox + Soil + Installation (\$16.00 x 726 tree/acre)	\$ 0	\$ 11,616	
<b>TOTAL</b>	<b>\$ 5,344</b>	<b>\$ 17,709</b>	

## Why EarthBox for Citrus in Florida?

- Uses approximately 40% less water because of the holding area in bottom
- Reduces fertilizer usage because 100% goes to the tree
- Trees grow smaller; probably maintain a 6 foot height
- No more ladders for harvesting = big reduction in costs
- Increases trees per acre to 725 or more
- Lower cost smaller equipment to work in the grove
- Estimated increase in production by 50% or more
- Eliminates soil-borne diseases and insects
- Liquid ADMIRE plus 6 foot trees = great psyllid and leaf miner control
- Potential to use cuttings for trees = out of nursery in 3 to 4 months
- Cuttings would bear fruit in 2 years; no juvenile period
- Cuttings would create a bushy tree that would tend to be smaller
- Full production would be expected by year 4-5
- Smaller trees = better control of diseases and insects on fruit
- Less wind scar on smaller trees
- More consistent fruit color because of more sunlight throughout the tree
- Higher fresh fruit packouts on smaller trees
- Better control of water and nutrients in the root zone = more consistent bloom and fruit cropping
- Will work on any type of land; sand soak, too wet, even a parking lot
- Reduces soil erosion
- May make the crop ready for harvest a week or two earlier
- May control flush by controlling water and nutrients