



## Summary of 2011 Ridge and Indian River-South Florida Citrus Custom Rate Charges

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This year's annual questionnaire surveys were conducted through the mail from April through June, 2011. Twenty-two citrus caretakers participated in the Central Florida-Ridge area survey, while fourteen citrus caretakers participated in the Indian River-South Florida area survey. Cooperatives, their members, and growers performing their own cultural practices were not included in this study. The author expresses sincere thanks to those caretakers and their staffs who took time from their busy schedules to report their custom charges.

A majority of Indian River-South Florida growers perform their own cultural practices. During the past few years, there has been a consolidation among citrus caretaker firms along with citrus grove acreage resulting in fewer citrus caretakers participating in the annual study. Also, from 2004 to 2011, primarily due to the citrus canker eradication program, real estate development, and the removal of HLB-citrus greening symptomatic trees, there has been a 38% reduction of the citrus acreage in the Indian River-South Florida region compared to a 18% acreage reduction in the Central Florida-Ridge citrus region.

The itemized custom rates, expressed as the low and high rate reported, along with the average of the rates for the 2011 surveys are the most current available (Tables 1 and 2). During the past several years, more citrus caretakers have been reporting the use of **electronic sensing technology** as shown in the **spraying section** on the 2011 summary of the citrus caretaker custom rate charges. The 2011 custom citrus caretaker rates showed an overall 2% average increase over the 2010 rates. Custom rates for growers who are members of cooperatives and costs for growers who conduct their own cultural practices may differ from these average caretaker rates.

About 70% of the caretakers participating in the survey indicated their grower clients are applying additional foliar nutrients on their citrus trees. The number of foliar nutrient applications ranged from three to six per year. Average cost (including application cost and nutrient materials) was \$48 per application.

Additional information on citrus budgeting and cost analysis and harvesting charges (pick, roadside and hauling) can be obtained by contacting your County Extension Citrus Agent or going to the UF/IFAS EDIS website: <a href="http://edis.ifas.ufl.edu">http://edis.ifas.ufl.edu</a> or UF/IFAS CREC website:

www.crec.ifas.ufl.edu/extension/economics

Grove Practice	Unit	Range (		Average Rate <sup>y</sup>		Comments
CHI TIMATION AND FOLIDMENT.						
CULTIVATION AND EQUIPMENT: Labor	Hour	\$13.25-	\$20.00	\$15.55	Plue ti	ransportation
Mechanic Labor	Hour	34.25-	45.00	40.42	1 lus ti	ansportation
Mechanic Labor with Truck	Hour	43.00-	75.00	55.98		
Rotovate	Hour	35.00-	52.00	41.79		
Disc 7'	Hour	28.00-	42.50	36.58	Avera	ged \$10.38/acre
Disc 9'-10'	Hour	32.00-	50.00	42.33	11,010	5-4 41-10 0/4010
Disc 9'-10'	Acre	9.75-	13.67	12.04	One-w	vay discing
Chop	Acre	8.75-	13.50	11.75		ged \$36.40/hour
Mow 9'-12'	Hour	35.00-	42.50	39.17	,	
Mow 5'-7'	Acre	8.75-	15.00	11.92	Avera	ged \$36.13/hour
Mow 9'-12'	Acre	8.75-	15.00	12.32		
Mow 15'-16'	Acre	10.00-	15.00	12.58	Avera	ged \$45.75/hour
Herbicide <sup>z</sup> (Strip/BandSingle Boom)	Acre	14.00-	20.00	15.96	Plus n	naterials. Averaged \$38.13/hour
Herbicide <sup>z</sup> (Strip/BandDouble Boom)	Acre	14.00-	18.90	15.35	Plus n	naterials. Averaged \$42.38/hour
Herbicide <sup>z</sup> (Chemical Mow)	Acre	3.50-	8.00	5.80	Plus n	naterials
Plow	Hour	34.75-	52.00	42.46		
Deviner	Hour	38.00-	52.00	42.98		
Bush Hog	Hour	35.75-	65.00	42.75	Avera	ged \$14.05/acre
Backhoe	Hour	45.00-	56.00	49.63	_	
Pickup Truck with Driver	Hour	30.00-	48.00	37.51	One re	eporting \$25.00/day
Flatbed Transport Truck with Driver	Hour	50.00-	100.00	77.14		
Tractor with Driver	Hour	28.00-	52.00	36.58		
Water/Supply Truck	Hour	28.00-	52.00	38.14		
ATV with Driver	Hour	23.50-	42.00	30.05		
<u>SPRAYING</u> : <sup>z</sup>		PTO A	IR BLAST	SPRAYE	R	
1,000 Gallon Tank with						
500 GPA	Acre	\$35.00-	High \$50.00	Aver: \$40.0		
250 GPA	Acre	30.00-	40.00	35.8	30	
150 GPA	Acre	28.00-	36.50	31.5	58	
125 GPA	Acre	26.00-	30.00	29.4	12 C	One reporting \$125/hour
100 GPA	Acre	24.00-	30.00	26.7	75	
Curtec Sprayer @ 25 GPA (325 Gallon Tank)	Acre	_	_	26.0	00	
Low Volume Ground Spray for Psyllid Contr	rol					
Every Other Middle	Acre	5.00-	13.00	7.5	4 A	verage 25 acres/hour
Every Middle	Acre	7.50-	16.00	12.8		verage 15 acres/hour
FERTILIZE AND SOIL AMENDMENTS: <sup>2</sup>						
Inject Liquid Fertilizer into Irrigation System	Hour	\$35.00-	\$41.00	\$39.00	Truck pl	us labor and plus materials; One reporting \$60.00
Inject Liquid Fertilizer into Irrigation System	Acre	2.75-	3.50	3.19		\per application
Dry (Bulk)	Acre	8.00-	13.20	10.98		
Dry (Bulk) VRT Spreader - Electronic Sensor	Acre	10.00-	16.75	12.88		
Lime or Dolomite	Acre	8.00-	13.00	10.43		
Fertilize Young Trees: <sup>2</sup> Hand Spread	Hour	13.25-	20.00	15.55	Plus trar	asportation and materials
Fert. Spreader Ant Bait Application with ATV @ \$4.00 per a	Hour cre	30.00-	45.00	38.17	Plus ma	terials; Average \$9.19/acre
IRRIGATION:						
Microsprinkler	Hour	30.00-	35.00	31.25	Start/sto	p and supervision; truck and driver; Avg. \$50/run
Microsprinkler/Drip Irrigation Maintenance - S			55.00			epair microsprinkler irrigation system-plus materials

Table 1. A listing of 2011 custom rates reported by twenty-two Ridge citrus caretakers (cont'd.)

Grove Practice	Unit	Range of Rate Unit Reported		Average Rate <sup>y</sup>	Comments	
REMOVING TREES:						
Tree Shearing (Cutting Tree at Ground Level) Front-end Loader Mulching Trees with a Grinder Head	Hour Hour Hour	\$65.00- 55.00-	\$80.00 80.00	\$68.33 66.42 115.00	Average trees sheared: 5 to 15 trees/hour Average trees removed: 5 to 15 trees/hour 7 to 15 trees per hour depending on tree size	
PRUNING:						
Rehab or Freeze Damage Pruning – \$5.50/tree; Hedging:	Power Sav	with Opera	ator - Ave	raged \$25.7	70/hour	
Double Sided (Self Propelled)	Hour	\$205.00-				
	_			_	acres per hour	
Double Sided (Tractor Mounted)	Hour	254.00-	300.00	269.33		
Topping:						
Double Sided (Self Propelled)	Hour	255.00-	275.00	268.33	,	
D 11 C'1 1/T ( M ( 1)	_	ed: \$30/acre		-	res per hour	
Double Sided (Tractor Mounted)	Hour	235.00-	300.00	256.67		
Limb Lifter/Tree Skirt Trimmer (Double Sided)	Hour	21.00-	26.00	23.43	a man hayin	
Removing Brush:	Average	ed: \$30/acre	, Avg. ran	ge 3-3 acre	es per nour	
Haul Brush out of Grove	Hour	45.00-	55.00	49.88	Truck or tractor-trailer plus 2 people	
Front-end Loader (Push Brush)	Hour	58.00-	80.00	65.62	2-10 acres/hour	
Chop/Mow Brush	Hour	35.00-	50.00		3-6 acres/hour; \$12.50/acre	
Chop/Now Brush	Hour	33.00	30.00	10.05	5 0 deres/ flour, \$12.50/dere	
COLD PROTECTION:						
Install Wraps and Annual Maintenance	Tree	\$0.30-	\$0.45	\$0.38		
Cost for Wraps	1100	Ψ0.50-	ψ013	Ψ0.56		
OTHER CUSTOM RATES:						
Solid Set Planting	Per Tree	\$1.30-	\$1.50	\$1.49	Stake, plant and first watering	
Plant Resets	Per Tree	1.75-	3.00	2.33	Stake, plant and first watering; cost depends on number	
					\resets per acre	
Grove Management Charge/Month:						
Supervising Grove Care Operations	Acre	2.50-	7.00	3.82	In addition to caretaking charges;	
					One reporting 6% of equipment labor charge	
Handling Fruit Marketing	Box	0.10-	0.25	0.17		
Supervising/Handling Chemicals/Fertilizer	10% to 20	% of materi	als cost			
T. 1D 1A						
Total Reported Acreage Provided Grove	A	(00	12.000	2 5 1 7	Total same man arting, 50 794	
Service to:	Acre	600-	12,660	3,517	Total acres reporting: 59,784	

<sup>&</sup>lt;sup>z</sup> Plus materials. Caretakers reporting rates include labor, tractor and sprayer; supply truck included by most caretakers.

Source: Ronald P. Muraro, Extension Farm Management Economist, Lake Alfred CREC, September 2011.

<sup>&</sup>lt;sup>y</sup> Calculated by dividing the total number of caretakers reporting a grove practice rate into the sum reported. Unless otherwise stated, labor included with all charges.

<sup>&</sup>lt;sup>x</sup>Low acres is for 2 years regrowth hedging; high acres is for annual maintenance hedging.

Table 2. A listing of 2011 custom rates reported by fourteen Indian River and South Florida citrus caretakers

Corres Describes	T I 14	Range o		Average	Comments			
Grove Practice	Unit	Repor	ted	Rate <sup>y</sup>	Comments			
<b>CULTIVATION AND EQUIPMENT:</b>								
Labor		\$ 14.50-	\$20.00	\$17.09	Plus transportation and equipment			
Mechanic Labor	Hour	40.00-	65.00	52.86	Labor and service truck			
Rotovate	Hour	40.00-	60.00	47.50	0 4 612.00/			
Disc 7-8'	Hour	35.00-	45.00	37.55	One reporting \$12.00/acre			
Disc 10-12' Mow: 7-8'	Hour	40.00-	55.00	45.00	One reporting \$14.50/acre			
9-10'	Acre	12.50- 12.00-	16.00 16.00	13.83 13.63	Average \$36.50/hour			
9-10 15-16'	Acre Acre	12.00-	16.00	13.30	Average \$46.50/hour			
V-Mower	Acre	10.00-	13.50	12.20	Average \$46.50/hour			
Herbicide <sup>z</sup> (Strip/Band–Double Boom)	Acre	12.00-	15.00	13.83	Plus materials			
Herbicide <sup>2</sup> (Chemical Mow)	Acre	3.00-	5.00	3.83	Plus materials			
Plow	Hour	37.00-	45.00	39.67	Tido materials			
Backhoe	Hour	47.00-	63.00	51.33				
Bush Hog	Hour	_	_	45.00				
Middle Buster	Hour	37.00-	45.00	41.75	With tractor and driver			
Mound Builder	Hour	_	_	40.00	With tractor and driver			
Grader Blade	Hour	38.00-	45.00	41.67	Tractor/blade and driver			
Water Truck with Driver	Hour	37.00	40.50	39.17				
Pickup Truck with Driver	Hour	35.00-	45.00	41.83	Average miles traveled per year: 20,400 miles			
Flatbed/Transport Truck with Driver	Hour	50.00-	75.00	66.67				
Tractor with Driver	Hour	35.50-	50.00	39.44				
ATV with Driver	Hour	24.00-	30.25	26.46				
SPRAYING: <sup>z</sup>			PTO AIR	BLAST S	SPRAYER			
	1,000 Gallon Tank							
			with E	Electronic	Sensing			
		Lo	w	High	Average			
500 GPA	Acre	\$41.	00-	\$45.00	\$42.75			
250 GPA	Acre		.00-	38.75	34.46			
125 GPA	Acre	27.	.00-	32.00	29.29			
100 GPA	Acre	25.	.00-	28.00	26.25			
50 GPA	Acre	20.	.00-	25.00	22.78			
Low Volume Ground Spray for Psyllid Control (every other middle)	Acre	5.	00-	8.00	6.00 Average 40 acres/hour			
Aerial Fixed Wing: \$5.39/acre @ 5 gallons/acre; \$7.42/acre @ 10 gallons/acre; \$8.50/acre @ 15 gallons/acre; One reporting \$4.50 @ 3 gallons/acre								
FERTILIZING: <sup>z</sup>								
Dry (Bulk)	Acre	\$ 9.25-	\$12.00	\$10.45	Plus materials			
Dry (Bulk) VRT Spreader-Electronic Sensor	Acre	8.50-	13.00	10.42	Plus materials. One reporting \$155/hour			
Lime or Dolomite	Acre	8.50-	10.75	9.21	Plus materials			
Fertilize Young Trees: <sup>z</sup> Hand Spread	Hour		20.00	17.09	Plus transportation and materials; 15¢/tree			
Fert. Spreader	Avei	rage: \$7.63/	acre; \$36	.00/hour	Plus materials			
IRRIGATION:								
Start/Stop, Supervise Irrigation System	Hour	\$28.00-	\$50.00	\$37.75	Per each run			
Start/Stop, Supervise Irrigation System	Acre		6.00	5.17				
Ditch Mower	Hour		60.00	48.13	One reporting \$90/hour for 25 ft reach			
Water Furrow Disc	Hour		45.00	42.69				
Water Furrow Cleaner	Hour		63.00	50.00				
Water Furrow Shaper	\$66	.50/hour (no			(laser)			
Rotary Ditcher or Auger	Hour		50.00	42.33				
Microsprinkler/Drip Irrigation Maintenance Ac	re/Mon	th 4.00-	7.85	5.57	Check & repair system; parts extra; average 3 times/yr			

Table 2. A listing of 2011 custom rates reported by fourteen Indian River and South Florida citrus caretakers (cont'd.)

Grove Practice	Unit	Range of Rate Reported		Average Rate <sup>y</sup>	Comments			
REMOVING TREES:								
Bulldozer	Hour	\$ —	\$ —	\$100.00				
Front-end Loader	Hour	65.00-	90.00	74.00	Avg. range 10-20 trees per hour			
Tree Shearing (Cutting Tree at Ground Level)	Hour	70.00-	85.00	73.75	Avg. range 5-15 trees per hour			
Mulching Trees with a Grinder Head	Hour	_	_	115.00	7 to 15 trees per hour depending on tree size			
Prepare Site for Replanting	Tree	\$0.25	- \$1.00					
PRUNING:								
Rehab or Freeze Damage Pruning – \$5.50/tree; P	ower Saw w	ith Operato	or - Averag	ged \$23.89	/hour			
Hedging:		• P		, +				
Double Sided (Self Propelled)	Hour	\$205.00-	\$275.00	\$257.50				
• •	Average	: \$24.25/a	cre; Avg. 1	range 8-20	acres per hour			
Double Side (Tractor Mounted)	Hour	254.00-	300.00	269.33				
, , ,								
Topping:								
Double Sided (Self Propelled)	Hour	255.00-	275.00	268.33				
	Average: \$30/acre; Avg. range 8-15 acres per hour							
Double Sided (Tractor Mounted)	Hour	235.00-	300.00	256.67				
Limb Lifter/Tree Skirt Trimmer	Acre	21.00-	26.00	23.43				
	Average: \$30/acre; Avg. range 3-5 acres per hour							
Removing Brush:								
Haul Brush out of Grove (Front-End Loader)	Hour	70.00-	85.00	74.00	Tractor & driver, trailer and 2 workers: \$67/hour			
Mow/Chop Brush	Hour	45.00-	65.00	51.99				
OTHER CUSTOM RATES:								
Install Tree Wraps	Per Wrap	0.25-	0.35	0.31				
mstan Tree Wraps	Per Tree	0.23-	0.55	0.51				
Plant Trees (Solid Set)	Tree	\$1.00-	\$2.00	\$1.43	Varies as to density			
Plant Trees (Resets)	Tree	2.00-	3.00		Varies as to the number of resets			
Grove Management Charge/Month:				•				
Supervising Grove Care Operations	Acre	4.00-	7.50	5.59	In addition to caretaking charges			
Handling Fruit Marketing	\$0.05-\$0.2	25/box – Fo			Marketing fruit			
Supervising/Handling Chemicals/Fertilizer	5% to 15% of materials cost							

<sup>&</sup>lt;sup>z</sup>Plus materials. Caretakers reporting rates include labor, tractor and sprayer; supply truck included by most caretakers.

Source: Ronald P. Muraro, Extension Farm Management Economist, Lake Alfred CREC, September 2011.

<sup>&</sup>lt;sup>y</sup>Calculated by dividing the total number of caretakers reporting a grove practice rate into the sum reported. Unless otherwise stated, labor included with all charges.

<sup>&</sup>lt;sup>x</sup>Low acres is for 2 years regrowth hedging; high acres is for annual maintenance hedging.