



Summary of 2012 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, 2012. Twenty-three citrus caretakers participated in the Central Florida-Ridge area survey, while fifteen 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 2012, primarily due to the citrus canker eradication program, real estate development, the removal of HLB-citrus greening symptomatic trees, and normal attrition from an older citrus tree population, there has been a 39% reduction of the citrus acreage in the Indian River-South Florida region compared to an 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 2012 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 and fertilizer sections on the 2012 summary of the citrus caretaker custom rate charges. The 2012 custom citrus caretaker rates showed an overall 2.6% average increase over the 2011 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.

Over 80% 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 \$55 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: http://edis.ifas.ufl.edu or UF/IFAS CREC website:

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

Grove Practice	Unit	Range Repo		Average Rate ^y	Comments		
	Oiiit	Керс	orteu	Rate	Comments		
<u>CULTIVATION AND EQUIPMENT</u> :		#12.50	#21 00	#1630	The second second		
Labor	Hour	\$13.50-	\$21.00		Plus transportation		
Mechanic Labor	Hour	26.29-	50.00	42.91			
Mechanic Labor with Truck	Hour	45.00-	65.00	51.88			
Rotovate	Hour	35.00-	50.00	41.25			
Disc 7'	Hour	28.00-	46.00	38.39			
Disc 7'	Acre	11.00-	16.00	13.67			
Disc 9'-10'	Hour	35.50-	42.00	41.10			
Disc 9'-10'	Acre	11.00-	15.00	12.84			
Chop	Acre	11.00-	15.00	12.81			
Mow 5'-7'	Acre	11.00-	15.00	12.67			
Mow 9'-12'	Acre	12.00-	15.00	13.59			
Mow 15'-16'	Acre	10.00-	15.00	13.75			
Herbicide ^z (Strip/BandSingle Boom)	Acre	14.00-	21.50	16.21			
Herbicide ^z (Strip/BandDouble Boom)	Acre	13.50-	18.90	15.34	8		
Herbicide ^z (Chemical Mow)	Acre	3.50-	8.00		Plus materials		
Plow	Hour	34.75-	45.00	40.74			
Bush Hog	Hour	35.00-	52.00	42.10	Č .		
Backhoe	Hour	40.00-	56.00	48.00			
Pickup Truck with Driver	Hour	28.50-	50.00	35.90			
Flatbed Transport Truck with Driver	Hour	50.00-	90.00	70.00			
Tractor with Driver	Hour	30.00-	42.50	35.15			
Water/Supply Truck	Hour	28.00-	42.50	35.72			
ATV with Driver	Hour	24.50-	41.00	29.52			
SPRAYING: ^z PTO AIR BLAST SPRAYER							
1,000 Gallon Tank with							
Electronic Sensing							
		Low	High	Aver			
500 GPA	Acre	\$40.00-	\$45.00	\$41.0			
250 GPA	Acre	32.00-	42.50	36.3			
150 GPA	Acre	31.00-	38.00	34.2			
125 GPA	Acre	27.50-	35.00	30.			
100 GPA	Acre	23.00-	30.00	27.8			
50 GPA	Acre			25.0			
Curtec Sprayer @ 25 GPA (325 Gallon Tank)	Acre	_	_	26.0	00		
Low Volume Ground Spray for Psyllid Contr	rol						
Every Other Middle	Acre	6.00-	9.50	7.1	14 Average 25 acres/hour		
Every Middle	Acre	10.00-	16.00	12.0			
FERTILIZE AND SOIL AMENDMENTS: ^z					-		
Inject Liquid Fertilizer into Irrigation System	Hour	\$35.00-	\$41.00	\$39.00	Truck plus labor and plus materials; One reporting \$60.00		
Inject Liquid Fertilizer into Irrigation System	Acre	2.00-	3.50	2.88	\per application		
Dry (Bulk)	Acre	8.50-	12.00	10.61	<u>per</u> approunds:		
Dry (Bulk) VRT Spreader - Electronic Sensor	Acre	10.00-	15.00	12.35			
Lime or Dolomite	Acre	8.50-	14.20	10.37			
Fertilize Young Trees: ^z Hand Spread	Hour	13.50-	21.00		Plus transportation and materials		
Fert. Spreader	Hour	35.00-	40.50		Plus materials; Average \$10.00/acre		
Ant Bait Application with ATV @ \$4.00 per a		33.00	10.50	50.05	Tido indicinais, Average \$10.00/dete		
IRRIGATION:							
Microsprinkler	Per Ru	n 30.00-	35.00	31.75	Start/stop and supervision; truck and driver; Avg. \$50/run		
Microsprinkler/Drip Irrigation Maintenance - \$	3.64/ac				Check/repair microsprinkler irrigation system-plus materials		

Table 1. A listing of 2012 custom rates reported by twenty-three Ridge citrus caretakers (cont'd.)

Grove Practice	Range of Rate Unit Reported			Average Rate ^y	Comments				
Grove Fractice	UIII	Керог	teu	Kate	Comments				
REMOVING TREES:									
Tree Shearing (Cutting Tree at Ground Level)	Hour	\$60.00-	\$80.00	\$68.11	Average trees sheared: 5 to 15 trees/hour				
Front-end Loader	Hour	55.00-	75.00	65.92	Average trees removed: 5 to 15 trees/hour				
Mulching Trees with a Grinder Head					ending on machine size.				
	15 to 70 trees per hour depending on tree size								
PRUNING:									
Rehab or Freeze Damage Pruning – Power Saw with Operator - Averaged \$24.18/hour									
Limb Lifter/Tree Skirt Trimmer (Single Side)	Acre	_	_	23.50	Average Range: 3-5 acres per hour				
Hedging:									
Single Side Tractor Pulled	Acre	_	_	25.00					
Double Side Tractor Pulled	Acre	_	_	23.75					
Double Side Tractor Mounted	Acre	_	_	27.50					
Double Side Tractor Mounted	Hour	180.00-	266.00	212.75	Average Range: 5-10 acres per hour				
Double Sided Self Propelled	Hour	225.00-	300.00	281.88	average Range: 8-10 acres per hour				
Topping:									
Topping – Tractor Pulled	Acre	_	_	34.67	Averaged \$152.50/hour				
Topping – Tractor Mounted	Hour	_	_	231.00					
Topping – Self Propelled	Hour	255.00-	325.00	291.00	Average Range: 8-15 acres per hour				
Removing Brush:									
Haul Brush out of Grove	Hour	45.00-	60.00	50.56	Truck or tractor-trailer plus 2 people				
Front-end Loader (Push Brush)	Hour	60.00-	80.00	67.27	2-10 acres/hour				
Chop/Mow Brush	Hour	35.00-	52.00	41.25	3-6 acres/hour; \$12.50/acre				
COLD PROTECTION:									
Install Wraps and Annual Maintenance	Tree	\$0.32-	\$0.45	\$0.38					
OTHER CUSTOM RATES:									
Solid Set Planting	Per Tree	\$1.30-	\$1.60	\$1.48	Stake, plant and first watering				
Plant Resets	Per Tree	1.75-	2.50	2.15	Stake, plant and first watering; cost depends on number				
Train resous	1 01 1100	1.75	2.50	2.15	\resets per acre				
Travel/Set-up Charge	Per Trip	_	_	62.50	<u>=====================================</u>				
Grove Management Charge/Month:	p								
Supervising Grove Care Operations	Acre	2.50-	7.00	3.95	In addition to caretaking charges;				
					One reporting 6% of equipment labor charge				
Handling Fruit Marketing	Box	0.10-	0.25	0.18					
Supervising/Handling Chemicals/Fertilizer	10% to 209	% of materia	als cost						
Total Reported Acreage Provided Grove									
Service to:	Acre	700-	12,645	3,878	Total acres reporting: 65,923				
			,		_				

^z 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 2012.

^y 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.

^xLow acres is for 2 years regrowth hedging; high acres is for annual maintenance hedging.

Table 2. A listing of 2012 custom rates reported by fifteen Indian River and South Florida citrus caretakers

Grove Practice	Unit	Range of Rate Average Reported Rate ^y		Average Rate ^y	Comments		
	CIIIt	Теры		1000	Comments		
CULTIVATION AND EQUIPMENT: Labor	Цоиг	\$ 15.50-	\$20.00	\$17.30	Plus transportation and equipment		
Mechanic Labor	Hour	45.00-	75.00	57.86	Labor and service truck		
Rotovate	Hour	40.00-	60.00	48.75	Labor and service truck		
Disc 7-8'	Hour	40.00-	50.00	43.75			
Disc 10-12'	Hour	40.00-	50.00	44.25			
Mow: 9-10'	Acre	10.00-	14.50	12.83	Average \$44.00/hour		
15-16'	Acre	12.50-	14.00	13.13	Average \$49.50/hour		
V-Mower	Acre	12.00-	14.00	12.88	Average \$50.75/hour		
Herbicide ^z (Strip/Band-Single Boom)	Acre	14.00-	15.00	14.67	Plus materials		
Herbicide ^z (Strip/Band–Double Boom)	Acre	13.50-	15.00	14.13	Plus materials		
Herbicide ^z (Chemical Mow)	Acre	3.50-	7.00	4.44	Plus materials		
Plow	Hour	37.00-	50.00	43.00			
Backhoe	Hour	45.00-	60.00	54.69			
Bush Hog	Hour		45.00	45.00	W/4		
Middle Buster	Hour	37.00-	45.00	41.75	With tractor and driver		
Mound Builder	Hour	20.00	45.00	45.00	With tractor and driver		
Grader Blade	Hour	38.00-	45.00	41.67	Tractor/blade and driver		
Water Truck with Driver Pickup Truck with Driver	Hour Hour	39.00 30.00-	40.00 40.00	39.39 36.71			
Flatbed/Transport Truck with Driver	Hour	50.00-	75.00	65.00			
Tractor with Driver	Hour	35.50-	52.00	40.69			
ATV with Driver	Hour	24.00-	30.00	27.35			
	Hour						
<u>SPRAYING</u> : ^z					SPRAYER		
				00 Gallon			
			with Electronic		Sensing		
		Lo		High	Average		
500 GPA	Acre	\$40.		\$45.00	\$41.60		
250 GPA	Acre		32.00-		35.69		
150 GPA	Acre		30.00-		33.40		
125 GPA	Acre	27.		32.00 33.00	29.67		
100 GPA	Acre	23.	23.00- 3		27.19		
50 GPA	Acre		_	_	25.00		
Low Volume Ground Spray for Psyllid Control – Every Other Middle	Acre	6.00-		9.50	7.08		
Aerial Fixed Wing: \$5.25 @ 2-3 gallons/acre	e; \$6.50	@ 5 gallon	s/acre; \$7	7.81 @ 10	gallons/acre; \$9.38 @ 15 gallons/acre; \$15.00 @ 20 gallons/acre		
FERTILIZING: ^z							
Dry (Bulk)	Acre	\$ 8 50-	\$11.00	\$ 9.75	Plus materials		
Dry (Bulk) VRT Spreader-Electronic Sensor		9.50-	13.50	11.25	Plus materials. One reporting \$160/hour		
Lime or Dolomite	Acre	8.50-	10.00	9.17	Plus materials		
Fertilize Young Trees: ^z Hand Spread	Hour	15.50-	20.00		Plus transportation and materials; 10¢-15¢/tree		
					•		
<u>IRRIGATION</u> :							
Start/Stop, Supervise Irrigation System	Hour	\$28.00-			Per each run		
Start/Stop, Supervise Irrigation System	Acre	5.00-	7.00	5.85	Per each run		
Ditch Mower	Hour	40.00-	50.00	45.00			
Water Furrow Disc	Hour	37.00-	50.00	42.00			
Water Furrow Cleaner	Hour	42.00-	50.00	45.67	0		
Water Furrow Shaper (non-laser)	Acre	25.00	45.00	32.00	Once every two years		
Rotary Ditcher or Auger	Hour	35.00-	45.00	40.33	Charle le rangir gyatami narta aytura aytura aytura 2 timag/w		
Microsprinkler/Drip Irrigation Maintenance Ac	re/ivionth	4.00-	7.85	5.57	Check & repair system; parts extra; average 3 times/yr		

Table 2. A listing of 2012 custom rates reported by fifteen Indian River and South Florida citrus caretakers (cont'd.)

Grove Practice	Unit	Range of Rate Unit Reported		Average Rate ^y	Comments			
		r						
REMOVING TREES:								
Front-end Loader	Hour	\$65.00-	\$85.00		Avg. range 10-20 trees per hour			
Tree Shearing (Cutting Tree at Ground Level)	Hour	65.00-	75.00	71.25	Avg. range 5-15 trees per hour			
Prepare Site for Replanting	Tree	\$0.25 -	\$1.00					
PRUNING:*								
Rehab or Freeze Damage Pruning – Power Saw with Operator - Averged \$24.18/hour								
Limb Lifter/Tree Skirt Trimmer (Single Side)	Acre	_	_	23.50				
, ,		Average Ra	nge: 3-5 a	acres per h	nour			
Hedging:								
Single Side Tractor Pulled	Acre		_	25.00				
Double Side Tractor Pulled	Acre		_	23.75				
Double Side Tractor Mounted	Acre		_	27.50				
Double Side Tractor Mounted	Hour	180.00-	266.00	212.75				
Average Range: 5-10 acres per hour								
Double Side Self Propelled	Hour	225.00-	300.00	281.88				
•		Average R	ange: 8-2	0 acres pe	r hour			
Topping:								
Topping – Tractor Pulled	Acre		_	34.67	Averaged \$152.50/hour			
Topping – Tractor Mounted	Hour		_	231.00				
Topping – Self Propelled	Hour	255.00-	325.00	291.00				
orphing and orphine	Average Range: 8-15 acres per hour							
Removing Brush:		_		_				
Haul Brush out of Grove (Front-End Loader)	Hour	70.00-	75.00	71.25	Tractor & driver, trailer and 2 workers: \$54.50/hour			
Mow/Chop Brush	Hour	40.00-	60.00	51.63	Tractor & direct, trainer and 2 workers. \$51.50/hour			
•	11041	10.00	00.00	21.03				
OTHER CUSTOM RATES:								
Plant Trees (Solid Set)	Tree	\$1.35-	\$2.00		Varies as to density			
Plant Trees (Resets)	Tree	1.50-	3.00	2.44	Varies as to the number of resets			
Grove Management Charge/Month:								
Supervising Grove Care Operations	Acre	3.50-	7.00		In addition to caretaking charges			
Handling Fruit Marketing	\$0.05-\$0.25/box – For Supervising and Marketing fruit							
Supervising/Handling Chemicals/Fertilizer	5% to 20% of materials cost							

^zPlus 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 2012.

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