



Summary of 2007 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 March through May. Seventeen citrus caretakers participated in the 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.

The Ridge caretakers reported servicing 50,560 acres planted to citrus or 3,371 acres per caretaker. The Indian River-South Florida participants serviced 45,580 total acres or 5,065 acres per caretaker. A majority of Indian River-South Florida growers conduct 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 2007 primarily due to the citrus canker eradication program and real estate development, there has been a 22% reduction of the citrus acreage in the Indian River-South Florida region compared to a 16% acreage reduction in all the other citrus regions.

The itemized custom rates, expressed as the low and high rate reported, along with the average of the rates for the 2007 surveys are the most current available (Tables 1 and 2). During the past four years, more citrus caretakers have technology as shown in the spraying section on the 2007 summary of the citrus caretaker custom rate charges. With fuel costs stabilized in 2007, the average increase in custom rates was about 4% higher than 2006. 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.

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

Table 1. A listing of 2007 custom rates reported by seventeen Ridge citrus caretakers

Grove Practice	Unit	Range of Rate Reported		Average Rate ^y		C	omments		
	Oilit	Керс	rica	Rate			Offifficitis		
<u>CULTIVATION AND EQUIPMENT</u> :		012.50	017.50	01424	DI .				
Labor	Hour	\$12.50-	\$17.50	\$14.24	Plus transp	ortation			
Mechanic Labor	Hour	25.00-	35.00	30.04					
Mechanic Labor with Truck	Hour	40.00-	60.00	47.00					
Rotovate Disc 7'	Hour Acre	32.00- 9.00-	45.00 11.25	39.58 10.09					
Disc 9'-10'	Hour	34.00-	45.00	38.20					
Disc 9'-10'	Acre	8.50-	11.25	10.30	One-way o	liseina			
Chop	Acre	10.00-	12.25	10.94	One-way C	nsenig			
Chop	Hour	34.00-	40.00	38.00					
Mow 5'-7'	Hour	35.00-	45.00	38.27					
Mow 9'-12'	Hour	32.00-	45.00	36.18					
Mow 5'-7'	Acre	9.50-	12.25	11.19					
Mow 9'-12'	Acre	9.50-	13.00	11.54					
Mow 15'-16'	Acre	10.50-	15.00	12.15					
Herbicide ^z (Strip/BandSingle Boom)	Acre	13.50-	20.00	15.78	Plus mater	ials; Avg. \$34.:	57/hour		
Herbicide ^z (Strip/BandDouble Boom)	Acre	12.50-	18.50	14.54		rials; Avg. \$38.			
Herbicide ^z (Chemical Mow)	Acre	6.00-	10.00	7.20	Plus mater				
Temik ^z	Acre	15.00-	17.50	16.04	Plus mater	rials			
Plow	Hour	_	_	40.00					
Deviner	Hour	_	_	50.00					
Bush Hog	Hour	32.00-	46.00	36.48	One report	ting \$9.50/acre			
Backhoe	Hour	40.00-	55.00	46.65					
Pickup Truck with Driver	Hour	30.00-	55.00	36.74	Average m	niles/year/picku	p: 37,100		
Flatbed Transport Truck with Driver	Hour	50.00-	100.00	73.00	Average n	niles/year: 46,90	61		
Tractor with Driver	Hour	27.00-	35.00	32.35					
Water/Supply Truck	Hour	28.50-	43.50	35.68					
ATV with Driver	Hour	22.50-	33.50	25.71					
<u>SPRAYING</u> : ^z	PTO AIR BLAST SPRAYER								
			000 Gallon		1,000 Gallon Tank without				
		Electronic Sensing			E	lectronic Sen	sing		
	-	Low	High	Avera		Low	High	Average	
500 GPA	Acre	\$ —	\$ —	\$ —		32.00 -	37.00	35.00	
250 GPA	Acre	28.00-	35.00	31.5		27.00 -	35.00	30.93	
125 GPA	Acre	25.00-	33.00	28.7		24.00 -	32.50	28.84	
100 GPA	Acre	23.00-	25.00	24.3	-	23.00 -	30.00	24.44	
Aerial (Bell-47 Helicopter)	\$12.50	@ 5 GPA; \$	518.00 @ 1	0 GPA; \$2	2.00 @ 15 €	GPA; \$25.00 @	20 GPA		
FERTILIZE AND SOIL AMENDMENTS: ^z									
Inject Liquid Fertilizer into Irrigation System	Hour	\$35.00-	\$40.00	\$38.34	Truck plus la	abor			
Inject Liquid Fertilizer into Irrigation System	Acre	1.50-	3.50	2.47	One reportin	g \$100/irrigation	on injection h	nookup	
Dry (Bulk)	Acre	8.00-	12.00	9.71	Average with	h electronic sen	sing: \$12.00	/acre	
Lime or Dolomite	Acre	8.00-	12.00	9.51					
Lime or Dolomite	Ton	8.00-	10.00	8.96					
Fertilize Young Trees: Hand Spread	Hour	12.50-	17.50			rtation and mat			
Fert. Spreader	Hour	25.00-	40.00	33.34	Plus materia	ls; Average \$9.	17/acre		
Airblast Spreader with Gator for Resets	\$30.00	hour; \$3.00/	acre						
<u>IRRIGATION</u> :									
Microsprinkler	Hour	25.00-	40.00			d supervision; t			
ATV with Driver	Hour	22.50-	33.50		Check/repair microsprinkler irrigation system-plus mater			ystem-plus materials	
Ring Young Trees: Hand Labor	Hour	12.50-	17.50	14.24	Plus transportation				

Table 1. A listing of 2007 custom rates reported by seventeen Ridge citrus caretakers (cont'd.)

Grove Practice	Range of Rate Unit Reported		Average Rate ^y	Comments			
REMOVING TREES:							
Tree Shearing (Cutting Tree at Ground Level) Front-end Loader Bulldozer Front-end Loader with Tree Spade	Hour Hour Hour Hour	\$55.00- 55.00- 50.00-	\$75.00 76.50 60.00	\$66.00 63.55 58.75 65.00	Avg.: \$10/tree; Avg. trees sheared: 5 to 15 trees/hour Average trees removed: 5 to 15 trees/hour		
· ·							
PRUNING: Limb Lifter/Tree Skirt Trimmer (Double Sided) Hedging:	Hour	_	_	210.00	Cover 6-12 acres one pass		
Single Side (Tractor Mounted)	Hour		_	77.00			
Double Side (Self Propelled)	Acre	_	_	30.00			
Double Side (Self Propelled) ^x	Hour	_	_	375.00	Cover 10-25 acres/hour depending on wood size		
Double Side (Self Propelled) ^x	Hour	242.00-	295.00	268.00	Cover 4-12 acres/hour depending on wood size		
Topping:							
Tractor Pulled	Hour	_	_	105.00			
Self Propelled	Hour		215.00	410.00	Cover 5-10 acres/hr (Roof Top); 5-20 acres/hr (Flat Top)		
Self Propelled	Hour	250.00-	315.00	286.25			
Removing Brush: Haul Brush out of Grove	Hour	40.00-	55.00	47.50	Tractor trailer/trusky plus 2 poople		
Front-end Loader (Push Brush)	Hour	55.00-	75.00	62.50	Tractor-trailer/truck; plus 2 people 2-10 acres/hour		
Chop/Mow Brush	Hour	35.00-	50.00	40.48	3-6 acres/hour; \$9.50/acre		
-	11041	22.00	20.00		υ ο αυτοδήποση, φυποή αυτο		
COLD PROTECTION:	T			e o 25			
Annual Maintenance Cost for Wraps	Tree Each	0.35-	0.50	\$ 0.35 0.41			
Install Wraps	Lacii	0.55-	0.50	0.41			
OTHER CUSTOM RATES:							
Plant Resets	Per Tree	\$ 2.00-	\$ 3.00	\$ 2.32	Stake, plant and first watering		
Solid Set Planting	Per Tree	1.15-	2.10	1.45	Stake, plant and first watering		
Travel/Setup Charge	Hour	42.00-	50.00	45.67	One reporting \$100 up to 20 miles		
Grove Management Charge/Month:	A	2.00	4.20	2.07	In a 11/4/2 to a contact of a contact of the contac		
Supervising Grove Care Operations Supervising Grove Care Operations	Acre/Year	2.00-	4.20	2.97 50.00	In addition to caretaking charges; One reporting 6% of Average for those reporting \equipment labor charge		
Handling Fruit Marketing	Box	0.05-	0.30	0.15	Average for those reporting <u>lequip</u> ment fabor charge		
Supervising/Handling Chemicals/Fertilizer	10% to 25% of materials cost; Average: 18%						
Supervising running chemicule, returned	10,000 20,	0 01 111410111	• • • • • • • • • • • • • • • • • •	, erage, ro	, •		
Charge for personnel to oversee harvesting operations and coordinate harvest in different blocks/groves and keeping of harvesting labor compliance record.	10¢/box to	20¢/box; av	verage 15¢	/box	Note: One reporting adding a 10% fuel surcharge on all billed equipment charges.		
Consulting	Cultural Management/Horticultural Evaluation - \$100/hr to \$300/hr Financial Analysis Prospectus - \$300/hr						
Total Reported Acreage Provided Grove Service to:	Acre	900-	17,000	3,371	Total acres reporting: 50,560		

^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 2007.

^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 2007 custom rates reported by fourteen Indian River and South Florida citrus caretakers

Grove Practice	Unit		Range of Rate Reported			Comments		
CULTIVATION AND EQUIPMENT:		•						
Labor	Hour	\$ 12.50-	\$22.00	\$16.43	Plus transportation	on and equipment		
Mechanic Labor	Hour	35.00-	55.00		Labor and servic			
Rotovate	Hour	40.00-	50.00	43.05	Labor and service	C truck		
Disc 7-8'	Hour	35.00-	41.00	39.00				
Disc 10-12'	Hour	32.00-	50.00		One reporting \$1	3.50/hour		
Mow: 7-8'	Hour	36.50-	46.00	40.98	One reporting \$1	3.30/ Hour		
9-10'	Hour	36.50-	48.00	40.63				
9-10'	Acre	9.50-	13.50	11.00				
15-16'	Hour	37.50-	50.00		\$13.50/acre			
V-Mower	Hour	40.00-	50.00		\$9.00/acre			
Herbicide ^z (Strip/Band–Single Boom)	Hour	35.00-	55.00		Plus materials; \$	14.08/acre		
Herbicide ^z (Strip/Band–Single Boom)	Acre	12.00-	15.00		Plus materials	17.00/acic		
Herbicide ^z (Strip/Band–Double Boom)	Acre	13.00-	15.50		Plus materials			
Herbicide ^z (Chemical Mow)	Acre	3.00-	6.00		Plus materials			
Temik ^z	Acre	14.00-	17.25		Plus materials			
Plow	Hour	38.00-	45.00	41.00	i ius materiais			
V-Plow	Hour			45.00				
Backhoe	Hour	47.50-	58.00	51.68				
Bush Hog	Hour	38.00-	46.00	41.35				
Middle Buster	Hour	40.00-	42.00		With tractor and	driver		
Mound Builder	Hour	40.00-	50.00		With tractor and			
Grader Blade	Hour	36.00-	45.00		Tractor/blade and			
Water Truck with Driver	Hour	37.50	45.00	40.08	Tractor/brade and	durver		
Pickup Truck with Driver	Hour	34.00-	50.00		Avaraga milas tr	aveled per year: Pick-up truck – 22,500 miles		
Flatbed/Transport Truck with Driver	Hour	60.00-	72.00		One reporting \$1			
Tractor with Driver	Hour	32.00-	42.00	36.11	One reporting \$1	oo/trip		
ATV with Driver	Hour	21.00-	29.00	24.21				
ATV WIGH DIEVEL	Hour	21.00-	29.00	27,21				
SPRAYING: ^z PTO AIR BLAST SPRAYER								
<u></u>				0 Gallon T				
			with Electronic S			500 Gallon Tank		
		L		High	Average	Average		
500 GPA	Acre	\$38		\$45.00	\$41.38	\$40.23		
250 GPA	Acre		.00-	38.75	36.19	32.86		
125 GPA	Acre	27	.00-	34.00	31.01	28.13		
100 GPA	Acre	-	_	_	22.84			
Curtec (25 GPA to 30 GPA)	Acre	_	_	_	28.00			
Aerial Fixed Wing: \$8.25/acre @ 15 gallons per acre Hand Sprayer (500 gallon tank) with tractor and 2 workers – \$45.00/hour								
FERTILIZING: ²								
Inject Liquid Fertilizer into Irrigation System	Hour	35.00-	40.00	38.17	Tractor with irrig	ation pump		
Dry (Bulk)	Acre		10.50	8.89	Plus materials	, I " I		
Dry (Bulk) VRT Spreader - Electronic Senso			e; \$155.00/		Plus materials			
Lime or Dolomite	Acre		10.50	9.11	Plus materials			
Fertilize Young Trees: Hand Spread	Hour		22.00	16.43		on and materials; 15¢/tree		
Hand Spread	One	reporting \$	97.00/hour	(2 gators	and 3 people) plus			
Fert. Spreader	Ave	rage: \$8.54/	acre; \$32.0	JU/hour	Plus materials			

Table 2. A listing of 2007 custom rates reported by fourteen Indian River and South Florida citrus caretakers (cont'd.)

Grove Practice	Unit	Range of Rate it Reported		Average Rate ^y	Comments			
	Cint	поро	itou	Ttuto	Сонинень			
IRRIGATION:	7.7	¢40.00	¢40.00	e 42 42				
Ditch Mower	Hour	\$40.00-	\$49.00	\$ 43.42				
Water Furrow Disc	Hour	39.00-	45.00	42.00				
Water Furrow Cleaner	Hour	35.00-	42.00	37.50				
Water Furrow Shaper	Hour	40.00-	— ((50	85.00				
Rotary Ditcher or Auger	Hour		66.50	51.58	Cl 1- 9it			
Microsprinkler/Drip Irrigation Maintenance Ac	re/Month	4.00-	6.00	4.85	Check & repair system; parts extra			
REMOVING TREES:								
Front-end Loader	Hour	\$60.00-	\$70.00	\$64.21	Avg. range 3-15 trees per hour			
Tree Shearing (Cutting Tree at Ground Level)	Hour	60.00-	75.00	66.67	Avg. range 5-20 trees per hour			
Prepare Site for Replanting	Tree	\$0.25	- \$1.00					
PRUNING: Hedging:								
Double Side (Tractor Mounted)	Hour	s —	\$ —	\$200.00	4 to 10 acres/hour			
Double Side (Tractor Modified) Double Side (Tractor Pulled)	Hour	185.00-	205.00		4 to 10 acres/hour; \$21/acre			
Double Side (Flactor Fulled) Double Side (Self Propelled)	Hour	242.00-	295.00					
	Hour 242.00- 295.00 264.40 8 to 20 A/H depending on wood size; \$15/A annual cut /acre to \$30/acre annual cut depending on wood size							
Double Side Rotary (Self Propelled) ^x	Hour		ai cui ucpe		10 to 25 A/H bed tops only; add 25% for furrows only			
Topping:	Hour			373.00	10 to 25 To 11 oca tops only, add 25 % for fullows only			
Double Sided Topper (Self Propelled)	Hour	285.00-	315.00	298 34	Avg. 8-15 A depending on wood size type of cut; \$28/A			
Double Sided (Tractor Mounted)	Hour			150.00	11.6. o 13 11 depending on wood size type of eat, \$20/11			
Double Sided (Tractor Pulled)	Hour		_		One reporting \$27.50/acre			
Limb Lifter/Tree Skirt Trimmer	Acre			18.00	3 to 5 acres/hour			
Limb Lifter/Tree Skirt Trimmer (Single Side)	Hour			85.00	5 to 5 deleta nodi			
Limb Lifter/Tree Skirt Trimmer (Double Sided Rotary)			_		6 to 20 acres/hour			
Removing Brush:	Hour			1 10.00	o to 20 deleg/flour			
Haul Brush out of Grove (Front-End Loader)	Hour	60.00-	70.00	65.00	Tractor & driver, trailer and 2 workers: \$63.67/hour			
Mow/Chop Brush	Hour	40.00-	65.00		One reporting \$12/acre			
OTHER CUSTOM RATES:								
Install Tree Wraps	25¢-75¢/tree depending on type of wrap and number of trees; Annual maintenance cost: 45¢/tree							
Plant Trees (Solid Set)	Tree	\$ 1.15-	\$ 2.50	\$ 1.54	Varies as to density			
Plant Trees (Resets)	Tree	2.00-	2.50	2.27	Varies as to the number of resets			
Grove Management Charge/Month:								
Supervising Grove Care Operations	Acre	3.50-	7.50	5.27	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							
Total Reported Acreage Provided Grove Service to:	Acre	1,000-	18,000	5,065	Total acres reporting: 45,580			

^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 2007.

^yCalculated 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.