



Summary of 2006 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. Twenty-five citrus caretakers participated in the Ridge area survey, while sixteen 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 63,077 acres planted to citrus or 3,154 acres per caretaker. The Indian River-South Florida participants serviced 21,455 total acres or 2,384 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 2006 primarily due to the citrus canker eradication program, there has been a 29% reduction of the citrus acreage in the Indian River region compared to a 14% 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 2006 surveys are the most current available (Tables 1 and 2). During the past four years, more citrus caretakers have been reporting the use of **electronic sensing**

technology as shown in the spraying section on the 2006 summary of the citrus caretaker custom rate charges. From 2005 to 2006, the average increase in fuel costs (gasoline and diesel) was about 10% with an average increase in custom caretaker rates of 8%. 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 UF/IFAS EDIS website: http://edis.ifas.ufl.edu

Table 1. A listing of 2006 custom rates reported by twenty-three Ridge citrus caretakers

Grove Practice	Unit	Range of Rate Reported		Average Rate ^y	;	Comments		
CULTIVATION AND EQUIPMENT:		•						
Labor	Hour	\$11.50-	\$20.00	\$14.66	Plus transp	oortation		
Tractor/Equipment Operator	Hour	12.50-	21.00	16.00				
Mechanic Labor	Hour	25.00-	35.00	32.29				
Mechanic Labor with Truck	Hour	40.00-	55.00	48.17				
Rotovate	Hour	32.00-	50.00	39.40				
Disc 7'	Hour	30.50-	45.00	36.10				
Disc 9'-10'	Hour	32.00-	47.00	36.90		1 D. a.	ΦΩ ΩΩ /	
Disc 9'-10'	Acre Hour	9.00- 32.00-	11.25 50.00	10.32 37.71	One-way o	discing; Disc 7':	\$9.00/acre	
Chop Mow 5'-7'	Hour	32.00-	45.00	37.71				
Mow 9'-12'	Hour	32.00-	45.00	36.05				
Mow 5'-7'	Acre	9.00-	12.00	11.00				
Mow 9'-12'	Acre	10.00-	12.75	11.84				
Mow 15'-16'	Acre	10.50-	15.00	12.57				
Herbicide ^z (Strip/BandSingle Boom)	Acre	13.00-	18.50	15.43	Plus mater	rials; Avg. \$32.8	88/hour	
Herbicide ^z (Strip/BandDouble Boom)	Acre	12.50-	18.00	14.72		rials; Avg. \$37.2		
Herbicide ^z (Chemical Mow)	Acre	6.00-	10.75	8.25	Plus mater	rials		
Temik ^z	Acre	14.75-	17.00	15.69		rials		
Plow	Hour	30.00-	40.00	35.42				
Deviner	Hour	35.00-	50.00	43.75				
Bush Hog	Hour	32.00-	46.00	38.06				
Backhoe	Hour	42.50- 25.00-	50.00 40.00	46.25		niles/year/picku	24 200	
Pickup Truck with Driver Pickup Truck w/out Driver	Hour Hour	23.00- 17.50-	24.00	34.30 21.56	•	mes/year/picku	p: 24,200	
Flatbed Transport Truck with Driver	Hour	35.00-	50.00	40.60		niles/year: 24,80)3	
Low-Boy Transport	Hour	50.00-	80.00	60.72		niles/year: 30,00		
Tractor with Driver	Hour	27.00-	40.00	31.87	iiveiuge ii	11100, 3 0411. 2 0,00		
Water/Supply Truck	Hour	29.25-	40.00	37.52				
ATV with Driver	Hour	22.00-	30.00	25.03				
<u>SPRAYING</u> : ^z				рт	O AIR RI A	ST SPRAYER		
	-	1 /	200 C 11				C 11 T 1	2.1
			000 Gallon		l		Gallon Tank	
		E	lectronic S	ensing		EI	ectronic Sens	ang
	_	Low	High	Aver	age	Low	High	Average
500 GPA	Acre	\$ —	\$ —	\$37.5		32.00 -	38.50	36.00
250 GPA	Acre	30.00-	35.00	33.0		27.00 -	35.00	30.63
125 GPA	Acre	27.25-	33.00	29.5		24.00 -	32.50	26.98
100 GPA	Acre	23.00-	25.00	24.4		22.50 -	30.00	24.65
Aerial (Bell-47 Helicopter)	\$12.00	@ 5 GPA; \$	816.50 @ 1	0 GPA; \$2	20.00 @ 15 C	GPA; \$23.00 @	20 GPA	
FERTILIZE AND SOIL AMENDMENTS: ^z								
Inject Liquid Fertilizer into Irrigation System	Hour	\$35.00-	\$50.00	\$40.00	Truck plus la	abor		
Inject Liquid Fertilizer into Irrigation System	Acre	1.75-	3.50	2.54	Average \$65	5.00/irrigation in	njection hook	up
Liquid Boom Application: Double Boom	Acre	15.00-	16.50	15.71				
Dry (Bulk)	Acre	7.00-	11.55		Average wit	h electronic sen	sing: \$12.00/	acre
Lime or Dolomite	Acre	8.50-	11.30	9.65				
Lime or Dolomite	Ton	8.00-	10.00	9.29	DI .			
Fertilize Young Trees: Hand Spread	Hour	11.50-	20.00			rtation and mate		
Fert. Spreader Airblast Spreader with Gator for Resets	Hour \$30.00	25.00- /hour; \$3.00/	40.00 /acre	31.29	Pius materia	ls; Average \$9.	09/acre	
IRRIGATION:								
Microsprinkler	Acre	\$ —	\$ —	\$ 3.83	Start/stop an	d supervision		
Microsprinkler	Hour	25.00-	40.00				ruck and driv	er
ATV with Driver	Hour	22.00-	30.00		Start/stop and supervision; truck and driver Check/repair microsprinkler irrigation system-plus ma			
Ring Young Trees: Hand Labor	Hour	11.50-	20.00		Plus transpo		-	_

Table 1. A listing of 2006 custom rates reported by twenty-three Ridge citrus caretakers (cont'd.)

Grove Practice			of Rate	Average Rate ^y					
Giove Fractice	Ullit	Repo	rtea	Kate	Comments				
REMOVING TREES:									
Tree Shearing (Cutting Tree at Ground Level)	Hour	\$59.50-	\$65.00	\$63.17	Avg.: \$10.25/tree; Avg. trees sheared: 5 to 15 trees/hour				
Front-end Loader	Hour	50.00-	80.00	63.05	Average trees removed: 5 to 15 trees/hour				
Bulldozer	Hour	50.00-	60.00	53.34					
Front-end Loader with Tree Spade	Hour	_	_	65.00					
PRUNING:									
Power Saw with Operator	Hour	\$20.00-	\$25.45	\$ 23.64	Plus transportation; Average \$7.65/hour without operato				
Limb Lifter/Tree Skirt Trimmer (Double	Hour	_	_	195.00	Cover 8-12 acres one pass				
Sided)									
Hedging:									
Single Side (Tractor Mounted)	Hour	_	_	77.00					
Double Side (Tractor Mounted)	Hour	_	_	230.00					
Double Side (Self Propelled)	Acre	_	_	25.00					
Double Side (Self Propelled) ^x	Hour	_	_	355.00	Cover 10-25 acres/hour depending on wood size				
Double Side (Self Propelled) ^x	Hour	250.00-	295.00	273.34	Cover 4-12 acres/hour depending on wood size				
Topping:					1 0				
Tractor Mounted	Hour	_	_	200.00					
Tractor Pulled	Hour		_	105.00					
Self Propelled	Hour	_	_	390.00	Cover 5-10 acres/hr (Roof Top); 5-20 acres/hr (Flat Top)				
Self Propelled	Hour	275.00-	325.00	298.34					
Removing Brush:									
Haul Brush out of Grove	Hour	32.50-	46.60	38.62	Tractor-trailer/truck; plus 2 people				
Front-end Loader (Push Brush)	Hour	50.00-	70.00	58.53	2-10 acres/hour				
Chop/Mow Brush	Hour	34.00-	50.00	41.57	3-6 acres/hour				
COLD PROTECTION:									
Mechanical (Bank and Unbank)	Hour	\$27.50-	\$35.00	\$31.25					
Install Wraps	Each	0.35-	0.40	0.37					
OTHER CUSTOM RATES:									
Plant Resets	Per Tree	\$ 2.00-	\$ 4.00	\$ 2.90	Stake, plant and first watering				
Solid Set Planting	Per Tree	1.60-	2.00	1.73	Stake, plant and first watering				
Travel/Setup Charge	Hour	42.00-	50.00	45.67	One reporting \$150 minimus over 20 miles				
Grove Management Charge/Month:									
Supervising Grove Care Operations	Acre	2.00-	7.00	3.39	In addition to caretaking charges; One reporting 6% of				
Supervising Grove Care Operations	Acre/Year	_	_	50.00	Average for those reporting \equipment labor charge				
Handling Fruit Marketing	Box	0.15-	0.50	0.28					
Supervising/Handling Chemicals/Fertilizer	10% to 25%				%				
					N				
Charge for personnel to oversee harvesting					Note: One reporting adding a 10% fuel surcharge on all				
operations and coordinate harvest in	10¢/box to 20¢/box; average 15¢/box billed equipment charges.								
different blocks/groves and keeping of	,	,	Č ,						
harvesting labor compliance record.									
Consulting	Cultural Management/Horticultural Evaluation - \$100/hr to \$300/hr								
		Financial Analysis Prospectus - \$300/hr							
Total Reported Acreage Provided Grove									
Service to:	Acre	600-	11,700	3,154	Total acres reporting: 63,077				
201.130 10.	11010	500	11,700	J,1J F	20m. acres reporting. 00,077				

^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 2006.

^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 2006 custom rates reported by fourteen Indian River and South Florida citrus caretakers

Grove Practice	Unit	Range of Repor		Average Rate ^y	C	omments					
	- Cint	Trop or	-	11000							
CULTIVATION AND EQUIPMENT:	Поли	¢ 12.50	¢21.7	¢16 22	Divertum ementation and equi	mm ant					
Labor	Hour	\$ 13.50-	\$21.7 5	\$16.22	Plus transportation and equi	pment					
Mechanic Labor	Hour	37.75-	55.00	45.25	Labor and service truck						
Rotovate	Hour	40.00-	45.00	41.80							
Disc 7-8'	Hour	35.00-	40.00	39.00							
Disc 10-12'	Hour	35.00-	45.00		One reporting \$13.50/hour						
Mow: 7-8'	Hour	35.00-	42.00	37.40	F						
9-10'	Hour	33.30-	45.00	38.83							
9-10'	Acre	_	_	10.00							
15-16'	Hour	43.50-	50.00	45.06	\$10.00/acre						
V-Mower	Hour	40.00-	50.00		\$9.00/acre						
Herbicide ^z (Strip/Band–Single Boom)	Hour	40.00-	41.50	40.75	Plus materials						
Herbicide ^z (Strip/Band–Single Boom)	Acre	13.75-	14.50	14.00	Plus materials						
Herbicide ^z (Strip/Band–Double Boom)	Acre	13.00-	15.50	14.13	Plus materials						
Herbicide ^z (Chemical Mow)	Acre	3.00-	3.50	3.25	Plus materials						
Гетik ^z	Acre	12.50-	16.00	14.17	Plus materials						
Plow	Hour	34.00-	42.00	38.67							
Backhoe	Hour	40.00-	60.00	49.56							
Bush Hog	Hour	35.00-	40.00	36.67							
Middle Buster	Hour	40.00-	42.00	40.67	With tractor and driver						
Mound Builder	Hour	35.00-	42.00	39.07	7 With tractor and driver						
Grader Blade	Hour	33.00-	42.00	37.20	Tractor/blade and driver						
Water Truck with Driver	Hour	37.90	40.00	37.57							
Pickup Truck with Driver	Hour	31.75-	40.00		Average miles traveled per	year: Pick-up truck – 25,000 mi					
Flatbed/Transport Truck with Driver	Hour	50.00-	80.00	66.25							
Tractor with Driver	Hour	31.25-	40.00	35.53							
ATV with Driver	Hour	22.00-	26.75	24.42							
CDD AVING Z			DTO AID	DIACTO	DD A VED						
SPRAYING: ^z				BLAST S 0 Gallon T							
						500 C-11 T1-					
			With E	lectronic S	ensing	500 Gallon Tank					
		Lo	ow	High	Average	Average					
500 GPA	Acre	\$41.	00-	45.00	42.25	40.67					
250 GPA	Acre		00-	39.00	36.19	34.58					
125 GPA	Acre	28.	00-	35.00	31.06	30.38					
Aerial	Fixed	Wing: \$ 5	.25/acre (a 5 gallo	ons per acre						
Aerial	Fixed	Wing: \$ 7	.25/acre (a 10 gallo	ons per acre						
Aerial	Fixed	Wing: \$ 8	.50/acre (a 15 gallo	ons per acre						
Aerial Fixed Wing: \$ 8.50/acre @ 15 gallons per acre Aerial Fixed Wing: \$12.50/acre @ 20 gallons per acre											
	Hand	Hand Sprayer (500 gallon tank) with tractor and 2 workers – \$45.00/hour									
FERTILIZING: ²											
Inject Liquid Fertilizer into Irrigation Syst	tem Hour	35.00-	40.00	37.67	Tractor with irrigation pump						
Dry (Bulk)	Acre		10.00	9.30	One reporting: \$69.00/hour						
Dry (Bulk) VRT Spreader		\$13.50/acre			F - 9. 4.2.1.1.11041						
Lime or Dolomite	Acre		10.00	9.25	Average \$9.75/ton						
Fertilize Young Trees: Hand Spread	Hour		21.75		Plus transportation and mate	erials; 15¢/tree					
Fert. Spreader		ge: \$8.60/ac			Plus materials						

Table 2. A listing of 2006 custom rates reported by fourteen Indian River and South Florida citrus caretakers (cont'd.)

Grove Practice	Range of Rate Unit Reported		Average Rate ^y	Comments			
	Oilit	Кер	ortea	Kate	Comments		
<u>IRRIGATION</u> :							
Ditch Mower	Hour	\$40.00-	\$49.00	\$ 44.67			
Water Furrow Disc	Hour	35.00-	50.00	40.50			
Water Furrow Cleaner	Hour	35.00-	42.00	37.50			
Water Furrow Shaper (Laser Control)	Hour	_	_	95.00			
Rotary Ditcher or Auger	Hour	35.00-	50.00	41.40			
Microsprinkler/Drip Irrigation Maintenance Ac	cre/Month	4.00-	5.50	4.75	Check & repair system; parts extra; Avg. \$39/hour		
REMOVING TREES:							
Front-end Loader	Hour	\$50.00-	\$65.00		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	\$0.2	5 - \$1.00				
PRUNING:							
Hedging:							
Double Side (Tractor Mounted)	Hour	\$ —	\$ —	\$200.00	4 to 10 acres/hour		
Double Side (Tractor Pulled)	Hour	_	_	165.00	4 to 10 acres/hour		
Double Side (Self Propelled)	Hour	225.00-	280.00	251.67	8 to 20 A/H depending on wood size; \$15/A annual cut		
Double Side Rotary (Self Propelled) ^x	Hour	_	_	280.00	5 to 15 A/H bed tops only; add 25% for furrows only		
Topping:					• • •		
Double Sided Topper (Self Propelled)	Hour	_		280.00	Avg. 8-15 A depending on wood size type of cut; \$28/A		
Double Side (Tractor Mounted)	Hour		_	200.00			
Topping Self Propelled	Hour			150.00			
Limb Lifter/Tree Skirt Trimmer	Acre	_	_		3 to 5 acres/hour		
Limb Lifter/Tree Skirt Trimmer (Single Side)	Hour	_	_	77.50	o to o deres, nour		
Limb Lifter/Tree Skirt Trimmer (Double Sided Rotary			_		6 to 20 acres/hour		
Removing Brush:	, 11041			120.00	0.00 20 40100/11042		
Haul Brush out of Grove (Front-End Loader)	Hour	60.00-	70.00	65.00	Tractor & driver, trailer and 2 workers: \$70/hour		
Mow/Chop Brush	Hour	40.00-	60.00	46.67	Tractor & driver, trailer and 2 workers. \$70/110ar		
OTHER CUSTOM RATES:							
Install Tree Wraps	20¢-60¢	tree depe	nding on ty	pe of wrap	and number of trees; Annual maintenance cost: 45¢/tree		
Plant Trees (Solid Set)	Tree	\$ 1.00-	\$ 2.25	\$ 1.44	Varies as to density		
Plant Trees (Resets)	Tree	2.00-	2.50	2.15	Varies as to the number of resets		
Grove Management Charge/Month:							
Supervising Grove Care Operations	Acre	4.00-	7.25	5.28	In addition to caretaking charges		
Handling Fruit Marketing	\$0.05-\$0).25/box –					
Supervising/Handling Chemicals/Fertilizer	\$0.05-\$0.25/box – For Supervising and Marketing fruit 5% to 15% of materials cost						
Charge for personnel to oversee harvesting operations and coordinate harvest in different blocks/groves and keeping of harvesting labor compliance records.	Box	\$ 0.05-	\$ 0.25	\$ 0.15			
Consulting	Hour	\$125.00-	\$175.00	\$150.00	Horticultural Evaluation and/or Financial Analysis/prospectus.		
Total Reported Acreage Provided Grove Service to:	Acre	400-	7,000	2,384	Total acres reporting: 21,455		

^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 2006.

^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.