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AN ECONOMIC ANALYSIS OF THE U.S. HONEY INDUSTRY:

DATA SUMMARY

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AN ECONOMIC ANALYSIS OF THE U.S. HONEY INDUSTRY:

DATA SUMMARY

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AN ECONOMIC ANALYSIS OF THE U.S. HONEY INDUSTRY: DATA SUMMARY

INTRODUCTION

The U.S. honey industry is undergoing a period of rapid change. The industry has concern about the possible effects of the infiltration of Africanized honey bees into the United States and what those bees might mean for honey production and providing pollination services. Varroa mites have heightened the industry's awareness of the potential effects of spreading bee diseases and parasites on the migratory behavior of beekeepers and the package bee and queen bee industry. There is continuing concern about the influence of pesticides on bees as they forage for food and pollinate crops. The effects of changing the federal honey price support program has industry participants anxious about the ability to maintain a positive cash flow in the future. Industry support of the National Honey Board, which has taken a role in promoting the use of honey in domestic and export markets, is strong. Finally, honey producers, packers, importers and brokers want to insure that all consumers receive a high quality product that is void of chemical alteration or pesticide residues.

To assist in identifying these issues and other issues that are of concern to the U.S. honey industry an economic study of the national honey industry was recommended and funded by the National Honey Board and the U.S. Department of Agriculture in 1989. This study, conducted by Cornell University, had two major components. The first emphasis was on a survey of the national honey industry. The purpose of the survey was to collect information to identify the needs and current economic status of the honey industry. The second emphasis of the research was to develop and expand an economic model of the national honey industry to aid in understanding the economic relationships in the industry. This model was to be used for simulation analysis of alternative

scenarios. The results were to be interpreted and implications for the industry were to be identified.

This report is one in a series of reports that summarizes the research on the economic analysis of the industry. In this report, summary tables compiled from the data collected by the national honey industry survey are presented. These tables identify characteristics of producers, packers, importers and brokers. Services provided by these industry participants, their financial situation, demographic characteristics are a few of the statistics presented. Several of these statistical tables were used as the basis for a U.S. Department of Agriculture publication on the U.S. beekeeping industry.

Other Cornell University reports included in the series that details the economic analysis of the industry include works (1) describing the survey sample and the type of mailing used, (2) summarizing the statistical frequency, mean, median, standard deviation, minimum and maximum of each question (3) identifying the raw data obtained from the survey, and (4) describing the economic model and scenario analyses.

Additional works are to be published through the U.S. Department of Agriculture's publication series and in beekeeping trade journals.

SUMMARY TABLES

PRODUCERS

PRODUCERS - GENERAL CHARACTERISTICS

Region of primary producer headquarters, by type firm

Region of								
primary beekeeping	Full time	Part time	Hobby	Total				
headquarters								
	Number							
Northeast	12	41	7	60				
Southeast	42	61	36	139				
Midwest	91	119	35	245				
West	55	38	9	102				
Northwest	89	42	10	141				
Total	289	301	97	687				

Sample Size=687

1 did not respond

NE:

CT; DE, MA; MD; ME; NH; NJ; NY; PA; RI; VT

SE:

AL; AR; GA; FL; LA; MO; MS; NC; SC; TN; VA; WV

MW:

IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

W:

AZ; CO; CA; HI; NM; NV; UT; WY

NW:

AK; ID; MT; ND; NE; OR; SD; WA

State of primary producer headquarters, by type firm

State of		Type Firm		
primary beekeeping	Full time	Part time	Hobby	Total
headquarters			_	
		Num	ber	
Blank	1			1
AK		1		1
AL	6	6	2	14
AR	5	3	3	11 .
AZ	6	10	3	19
CA	28	16	3	47
CO	4	2	2	8
CT		1		1
FL	12	24	6	42
GA	3	5	4	12
IA	8	14	7	29
ID	9	3		12
IL	3	4	3	10
IN ·	2	4		6
KS	4	1	1	6
KY	1			1
LA	4	1	2	7
MA		2		7 2
MD		2		2
ME	2		1	3
MI	16	22	5	43
MN	16	17	6	39
MO .	3	2	3	8
MS	3	8	1	12
MT	18	2	1	21

State of primary producer headquarters, by type firm (continued)

State of State of				
primary beekeeping	Full time	Type Firm Part time	Hobby	Total
headquarters				
		Num	ber	
NC	5	1	4	10.
ND	14	7		21
NE	10	5	2	17
NH	1			1
NJ		1		1
NM	1	1		2
NV	2			2
NY	4	20	2	26
ОН	6	20	6	32
OK	1	3		4
OR	8	11	3	22
PA	3	13	2	18
SC	1	1		2
SD	23	7	1	31
TN		5	5	10
TX	17	18	2	37
UT	5	5	1	11
VA ·	-	2	2	4
VT	2	2	2	6
WA	7	6	3	16
WI	17	16	5	38
wv		3	4	7
WY	9	4		13
Total	290	301	97	688

Location of primary residence, by type firm

Location	on Type Firm						
	Full time	Part time	Hobby	Total			
		Number					
Farm	67	78	32	177			
Rural, but not farm	87	80	26	193			
Community							
Less than 2,500	58	50	6	114			
2,500 - 24,999	39	37	12	88			
25,000 - 49,999	6	14	4	24			
50,000 - 99,999	10	6	2	18			
100,000 or more	11	17	7	35			

Sample Size=649

Average size of producer households, by type firm and age

Age of			Type 1	Firm				
household	Full time		Part time		Hobby		Tota	1
members	Number	Number	Number	Number	Number	Number	Number	Number
	reporting	reported	reporting	reported	reporting	reported	reporting	reported
				Nun	ıber			
Under 6 years old	47	69	43	65	14	24	104	158
6 to 12 years old	62	102	64	106	19	28	145	236
13 to 18 years old	54	83	60	88	19	25	133	196
19 or older	261	560	253	545	80	171	594	1276
Total	267	814	257	804	82	248	606	1866
No Children under 19 years	151		147		45		343	

Sample Size = 606

Major occupation of producers, by type firm and sex

	_	1 ype	Firm				
Full	ime _	Part time		Hobby		Tot	al
Male	Female	Male	Female	Male	Female	Male	Female
			Numb	er		<u>-</u>	
0	0	3	0 .	0	0	3	0
15	0	42	1	15	1	72	2
8	0	16	0	5	1	29	1
3	0	19	1	5	1	27	2
11	1	30	0	14	0	55	1
4	.1	21	1	1	1	26	3
10	1	13	1 ·	2	0	25	2
198	9	24	5	2	0	224	14
5	0	19	1	7	0	31	1
8	1	52	3	23	0	83	4
5	0	27	3	8	1	40	4
	Male 0 15 8 3 11 4 10 198 5 8	0 0 15 0 8 0 3 0 11 1 4 1 10 1 198 9 5 0 8 1	Male Female Male 0 0 3 15 0 42 8 0 16 3 0 19 11 1 30 4 1 21 10 1 13 198 9 24 5 0 19 8 1 52	Male Female Male Female 0 0 3 0 15 0 42 1 8 0 16 0 3 0 19 1 11 1 30 0 4 1 21 1 10 1 13 1 198 9 24 5 5 0 19 1 8 1 52 3	Male Female Male Female Male Number 0 0 3 0 0 15 0 42 1 15 8 0 16 0 5 3 0 19 1 5 11 1 30 0 14 4 1 21 1 1 10 1 13 1 2 198 9 24 5 2 5 0 19 1 7 8 1 52 3 23	Male Female Male Female Male Female Number 0 0 3 0 0 0 15 0 42 1 15 1 8 0 16 0 5 1 3 0 19 1 5 1 11 1 30 0 14 0 4 1 21 1 1 1 10 1 13 1 2 0 198 9 24 5 2 0 5 0 19 1 7 0 8 1 52 3 23 0	Male Female Male Female Male Female Male Number 0 0 3 0 0 0 3 15 0 42 1 15 1 72 8 0 16 0 5 1 29 3 0 19 1 5 1 27 11 1 30 0 14 0 55 4 1 21 1 1 1 26 10 1 13 1 2 0 25 198 9 24 5 2 0 224 5 0 19 1 7 0 31 8 1 52 3 23 0 83

Sample Size = 649

Bee colonies and honey production, by type firm and region, 1985-88 average

Region of			Type Fi	im								
primary beekeeping		Full time		_	Part time			Hobby			Total	
headquarters	Colonies	Production	Beekeepers									
	Number	Pounds	Number									
Northeast	10,691	711,997	11	4,382	235,713	34	79	5,279	7	15,152	952,989	52
Southeast	62,970	3,940,912	38	5,209	296,218	47	421	25,419	28	68,599	4,262,549	113
Midwest	85,891	8,634,681	78	12,614	916,245	100	363	27,036	29	98,868	9,577,963	207
West	61,089	3,802,451	51	3,993	252,144	26	44	3,022	7	65,126	4,057,616	84
Northwest	186,389	18,247,508	72	5,243	440,023	39	101	7,022	7	191,733	18,694,553	118
Total	407,030	35,337,549	250	31,440	2,140,342	246	1,008	67,778	78	439,478	37,545,669	574

NE:

CT; MA; MD; ME; NH; NJ; NY; PA; VT; DE; RI

SE:

AL; AR; GA; FL; LA; MO; MS; NC; SC; TN; VA; WV

MW:

IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

W:

12

AZ; CO; CA; NM; NV; UT; WY; HI

NW:

AK; ID; MT; ND; NE; OR; SD; WA

Sample Size = 574

Bee colonies and honey production, by type firm and age, 1985-88 average

		Type Fi	rm								
	Full time			Part time			Hobby			Total	
Colonies	Production	Beekeepers	Colonies	Production	Beekeepers	Colonies	Production	Beekeepers	Colonies	Production	Beekeepers
Number	Pounds	Number	Number	Pounds	Number	Number	Pounds	Number	Number	Pounds	Number
33,631	2,710,848	24	3,059	259,416	24	124	8,354	9	36,815	2,978,617	57
52,202	4,277,687	49	8,442	632,730	61	188	13,888	14	60,832	4,924,305	124
159,252	14,268,474	78	8,501	539,600	62	259	17,827	20	168,012	14,825,900	160
101,552	8,202,457	58	5,800	371,053	49	210	14,126	15	107,561	8,587,636	122
49,793	4,513,295	34	4,631	282,528	41	190	10,269	16	54,613	4,806,093	91
396,429	33,972,760	243	30,434	2,085,327	237	971	64,463	74	427,834	36,122,550	554
	33,631 52,202 159,252 101,552 49,793	Colonies Production Number Pounds 33,631 2,710,848 52,202 4,277,687 159,252 14,268,474 101,552 8,202,457 49,793 4,513,295	Full time Colonies Production Beekeepers Number Pounds Number 33,631 2,710,848 24 52,202 4,277,687 49 159,252 14,268,474 78 101,552 8,202,457 58 49,793 4,513,295 34	Colonies Production Beekeepers Colonies Number Pounds Number Number 33,631 2,710,848 24 3,059 52,202 4,277,687 49 8,442 159,252 14,268,474 78 8,501 101,552 8,202,457 58 5,800 49,793 4,513,295 34 4,631	Full time Part time Colonies Production Beekeepers Colonies Production Number Pounds Number Number Pounds 33,631 2,710,848 24 3,059 259,416 52,202 4,277,687 49 8,442 632,730 159,252 14,268,474 78 8,501 539,600 101,552 8,202,457 58 5,800 371,053 49,793 4,513,295 34 4,631 282,528	Full time Part time Colonies Production Beekeepers Colonies Production Beekeepers Number Pounds Number Number Pounds Number 33,631 2,710,848 24 3,059 259,416 24 52,202 4,277,687 49 8,442 632,730 61 159,252 14,268,474 78 8,501 539,600 62 101,552 8,202,457 58 5,800 371,053 49 49,793 4,513,295 34 4,631 282,528 41	Full time Part time Colonies Production Beekeepers Colonies Production Beekeepers Colonies Number Pounds Number Number Number Number Number 33,631 2,710,848 24 3,059 259,416 24 124 52,202 4,277,687 49 8,442 632,730 61 188 159,252 14,268,474 78 8,501 539,600 62 259 101,552 8,202,457 58 5,800 371,053 49 210 49,793 4,513,295 34 4,631 282,528 41 190	Full time Part time Hobby Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Number Pounds Number Number Number Number Pounds 33,631 2,710,848 24 3,059 259,416 24 124 8,354 52,202 4,277,687 49 8,442 632,730 61 188 13,888 159,252 14,268,474 78 8,501 539,600 62 259 17,827 101,552 8,202,457 58 5,800 371,053 49 210 14,126 49,793 4,513,295 34 4,631 282,528 41 190 10,269	Full time Part time Hobby Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Beekeepers Number Pounds Number Number Number Number Number Pounds Number 33,631 2,710,848 24 3,059 259,416 24 124 8,354 9 52,202 4,277,687 49 8,442 632,730 61 188 13,888 14 159,252 14,268,474 78 8,501 539,600 62 259 17,827 20 101,552 8,202,457 58 5,800 371,053 49 210 14,126 15 49,793 4,513,295 34 4,631 282,528 41 190 10,269 16	Full time Part time Hobby Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Beekeepers Colonies Number Pounds Number Number	Full time Part time Hobby Total Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Beekeepers Colonies Production Number Number Number Number Number Number Number Pounds Number Number Production Number Number Number Production Number Number Number Production Number Number Number Number Production Number Number Number Number Number Production Number Number Number Number Production Number Number Production Number Production Number Pounds Number Production Production Pr

Sample Size = 554

Average production per colony of producer operations, by honey production, 1988

			Honey	production (p	ounds)						
Average production	Less than	1,250 to	15,000 to	25,000 to	50,000 to	250,000 to	500,000 or				
per colony	1,250	<u>14,</u> 999	24,999	49,999	249,999	499,999	more				
		lbs/colony									
	15.6	42.6	57.4	72.9	72.5	90.3	117.8				

Sample Size=492	196 did not respond		
Less than $1250 = 51$	15000 to 24999 = 49	50,000 to $249999 = 106$	500000 or more = 13
1250 to 14999 = 183	25000 to 49999 = 64	250000 to 499999 = 26	

Average production per colony of producer operations, by colony size, 1988

			Colony	size			
Average production	Less than	25 to	300 to	500 to	1,000 to	5,000 to	10,000 or
per colony	25	299	499	999	4,999	9,999	more
				lbs/colony			
	84.0	72.4	75.8	82.2	94.3	68.4	64.6

Sample Size=492 Less than 25 = 52 196 did not respond

300 to 499 = 57

1000 to 4999 = 106

10,000 or more = 3

25 to 299 = 202

Average honey production per colony, by type firm and region, 1985-88 average

Region of		Type Firm		
primary beekeeping	Full time	Part time	Hobby	Total
headquarters				
	lb/colony	lb/colony	lb/colony	lb/colony
Northeast	66.6	53.8	67.0	62.9
Southeast	62.6	56.9	60.4	62.1
Midwest	100.5	72.6	74.5	96.9
West	62.2	63.2	68.3	62.3
Northwest	97.9	83.9	69.4	97.5
Total	86.8	68.1	67.2	85.4

NE:

CT; MA; MD; ME; NH; NJ; NY; PA; VT; DE; RI

SE:

AL; AR; GA; FL; LA; MO; MS; NC; SC; TN; VA; WV

MW:

IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

W:

AZ; CO; CA; NM; NV; UT; WY; HI

NW:

AK; ID; MT; ND; NE; OR; SD; WA

Sample Size = 574

Average honey production per colony, by type firm and age, 1985-88 average

Age		Type Firm_										
Class	Full time	Part time	Hobby	Total								
	lb/colony	lb/colony	lb/colony	lb/colony								
Less than 35 yrs	80.6	84.8	67.2	80.9								
35-44 yrs	81.9	74.9	74.0	80.9								
45-54 yrs.	89.6	63.5	68.8	88.2								
55-64 yrs.	80.8	64.0	67.3	79.8								
65 yrs or more	90.6	61.0	54.2	88.0								
Total	85.7	68.5	66.4	84.4								

Sample Size = 554

	-		
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Type of loss	Unit		Type firm		Total
		Full-time	Part-time	Hobby	
PESTICIDES					
Beekeepers with losses	Number	147	84	10	241
Colonies affected	Percent	38.8	31.2	50.0	36.6
Colonies with 50% or more loss	Percent	28.8	29.2	49.3	29.5
Location of losses	1				
Colony	Percent	5.5	15.0	44.4	10.2
Field	Percent	23.3	17.5	33.3	21.7
Both	Percent	71.2	67.5	22.2	68.1
Reimbursement received for losses	1				
Yes	Percent	0.7	3.7	0.0	1.7
No	Percent	99.3	96.3	100.0	98.3
WINTER KILL					
Beekeepers with losses	Number	255	247	50	552
Colonies affected	Percent	21.8	17.5	22.4	19.9
Colonies with 50% or more loss	Percent	38.2	31.7	31.8	34.7
Method used to replace winter losses					
Purchase package bees	Percent	21.6	18.6	30.0	21.0
Division with purchased queen	Percent	62.0	62.3	52.0	61.2
Division with own queen raised	Percent	57.3	49.8	38.0	52.2

Reasons for a reduction in production, by type firm, 1985-88

								'Type firm												
Reason			Full-time					Part-time					Hobby					Total		
	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average
		_						Number												
Drought	85	72	80	132	92	39	51	79	108	69	7	9	14	28	15	131	132	173	268	176
Disease	7	6	9	9	8	12	15	20	21	17	4	2	4	3	3	23	23	33	33	28
Mites	13	15	27	63	30	6	9	15	33	16	1	1	2	5	2	20	25	44	101	48
Other	76	81	69	54	70	46	57	47	55	51	12	9	10	10	10	134	147	126	119	132
Reported a loss	148	142	136	178	151	87	108	126	160	120	20	19	6	41	22	254	256	303	360	293
_																				

Bee colony transport, by type firm, 1985-88

		Type firm										
Transport		Full-time			Part-time			Hobby			Total	
colonies to	Number	Average	Mileage/	Number	Average	Mileage/	Number	Average	Mileage/	Number	Average	Mileage/
other states		mileage	colony		mileage	colony		mileage	colony		mileage	colony
YES						•						
1985	103	45,539	20.0	17	3,065	20.0	0			120	39,951	20.0
1986	104	44,982	19.9	21	5,479	35.2	1	1,000	50.0	126	38,470	20.1
1987	108	45,982	19.6	30	5,396	29.1	0			138	37,564	19.8
1988	103	48,674	19.9	29	6,431	26.8	0			132	39,576	20.1
1985, 86, 87 or 88	118	42,106	19.0	34	4,837	27.7	1	250	10.2	153	33,684	19.2
NO												
1985	187	12,475	10.5	284	1,692	11.6	97	80	4.1	568	5,954	10.6
1986	186	13,360	10.8	280	1,711	13.0	96	86	7.1	562	6,189	11.1
1987	182	13,318	10.5	271	1,795	13.4	97	58	3.9	550	5,316	10.8
1988	187	13,701	10.6	272	1,743	12.3	97	74	4.7	556	6,228	10.7
1985, 86, 87 or 88	172	13,287	11.0	267	1,707	13.4	96	82 ·	6.4	535	5,885	11.3

Main purpose of transporting bees to other states, by type firm

								Type firm												
Purpose		Full-time					Part-time						Hobby					Total		
_	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average	1985	1986	1987	1988	Average
								Number												
Paid pollination	36	38	40	43	39	6	8	13	13	10	0	0	0	0	0	42	46	53	56	49
Floral source	37	38	40	36	38	6	6	7	8	7	0	0	0	0	0	43	44	47	44	45
Wintering	49	50	51	48	50	7	9	14	13	11	0	0	0	0	0	56	59	65	61	60
Other	15	14	14	14	14	1	1	3	1	2	0	1	0	0	0	16	16	17	15	16
ļ																				

PRODUCERS - MARKETING

Grades of honey marketed, by type firm, 1985-1988 average

Grade		Total					
_	Full-time	Part-time	Hobby				
		Percent					
White	56.3	39.8	23.4	55.4			
Extra light amber	24.3	25.9	28.2	24.4			
Light amber	14.7	23.5	22.0	15.2			
Amber	4.4	10.2	26.1	4.7			
Other	0.2	0.6	0.3	0.2			
Total	100.0	100.0	100.0	100.0			

Grades of honey marketed, by program participation and type firm, 1985-1988 average

Use honey					
price support	Full-time	Part-time	Hobby	Total	
program					
		Pe	ercent		
YES					
White	56.7	40.7	23.4	55.8	
Extra light amber	24.2	25.9	24.5	24.3	
Light amber	14.6	23.7	25.2	15.0	
Amber	4.4	9.2	26.5	4.6	
Other	0.2	0.6	0.3	0.2	
Total	100.0	100.0	100.0	100.0	
NO		٠			
White	46.1	29.4	23.7	43.9	
Extra light amber	28.2	25.1	41.0	28.0	
Light amber	20.4	21.5	10.5	20.4	
Amber	5.0	23.7	24.7	7.4	
Other	0.3	0.3	0.2	0.3	
Total	100.0	100.0	100.0	100.0	

Grades of honey marketed, by beekeepers receiving pollination fees and type firm, 1985-1988 average

Receive					
pollination fees	Full-time	Part-time	Hobby	Total	
		Pe	ercent		
YES	Ì				
White	54.8	29.6		53.7	
Extra light amber	24.2	35.6		24.7	
Light amber	12.5	24.8		13.0	
Amber	8.2	9.9		8.3	
Other	0.3	0.2		0.2	
Total	100.0	100.0		100.0	
NO					
White	56.9	43.0	23.4	56.1	
Extra light amber	24.4	22.8	28.2	24.3	
Light amber	15.6	23.1	22.0	16.1	
Amber	2.8	10.4	26.1	3.3	
Other	0.2	0.7	0.3	0.2	
Total	100.0	100.0	100.0	100.0	
·					

Markets used to dispose of honey crop, by type firm, 1985-88 average

Market		Total		
	Full-time	Part-time	Hobby	
		Perce	nt	
Roadside	1.2	6.3	28.2	1.5
Retail stores	3.4	16.3	8.9	4.0
Institutions	0.2	0.5	1.8	0.2
Broker or dealer	5.1	4.4	19.6	5.1
Packer/bottlers				
Independent	35.8	25.0	10.6	35.2
Cooperative	24.2	7.3	6.4	23.3
Direct Export	0.2	1.0	0.0	0.2
Industrial user	2.9	2.5	1.5	2.9
CCC	25.2	32.4	17.6	25.5
Other	0.8	2.1	2.6	0.9
Storage	0.9	2.1	2.8	1.0
Total	100.0	100.0	100.0	100.0
				_

Advertising activities of beekeepers, by type firm, 1988

Type firm and product or service		Advertising activity									
	Local	Circulars	Beekeeping journals	Magazines	Community	Direct	Road	Word of	Other	Didn't advertise	
	newspaper				bulletin board	mail	signs	Mouth			
		Number									
Full-time											
Honey	24	9	7	7	4	18	20	110	32	146	
Honey with other products	7	2	3	3	1	6	3	27	14	243	
Beeswax	1	0	3	1	1	1	1	42	10	234	
Pollination services	7	3	2 .	4	1	4	1	62	12	210	
Package bees and queens	2	1	8	1	0	3	1	18	6	258	
Part-time			•								
Honey	29	9	1	1	10	6	50	147	25	115	
Honey with other products	6	4	1	0	3	3	7	33	7	251	
Beeswax	3	1	0	0	1	1	3	40	5	246	
Pollination services	3	0	1	2	2	4	2	39	4	243	
Package bees and queens	1	3	1	1	2	4	2	17	1	271	
Hobby											
Honey	6	0	0	1	4	1	18	48	9	31	
Honey with other products	3	1	2	2	0	1	2	3 .	0	81	
Beeswax	0	0	0	0	0	0	1	3	2	81	
Pollination services	0	0	0	0	0	0	1	2	0	84	
Package bees and queens	0	0	0	0	0	0	1	1	0	85	
Total			•				•				
Honey	59	18	8	9	18	25	88	305	66	292	
Honey with other products	16	7	6	5	4	10	12	63	21	575	
Beeswax	4	1	3	1	2	2	5	85	17	561	
Pollination services	10	3	3	6	3	8	4	103	16	537	
Package bees and queens	. 3	4	9	2	2	7	4	36	7	614	

Sample Size = 663 (Full-time = 286, Part-time = 291, Hobby = 86)

Promotional activities of producers, by type firm, 1988

	Total		
Full-time	Part-time	Hobby	
	Number		
116	76	15	207
92	79	17	188
80	52	5	137
94	87	23	204
18	16	0	34
39	38	7	84
202	142	24	368
36	33	5	74
34	67	31	132
	116 92 80 94 18 39 202	Number 116 76 92 79 80 52 94 87 18 16 39 38 202 142 36 33	Full-time Part-time Hobby Number 116 76 15 92 79 17 80 52 5 94 87 23 18 16 0 39 38 7 202 142 24 36 33 5

Sample Size = 606 (Full-time = 271, Part-time = 257, Hobby = 78)

Promotional activities of producers, by type firm, 1988

Activity		Type firm		Total
_ `	Full-time	Part-time	Hobby	
		Percent		
Distribute recipes using honey	42.8	29.6	19.2	34.2
Give demonstrations	33.9	30.7	21.8	31.0
Distribute honey information	29.5	20.2	6.4	22.6
Distribute free samples	34.7	33.9	29.5	33.7
Publish newspaper articles	6.6	6.2	0.0	5.6
Maintain observation hive	14.4	14.8	9.0	13.9
Contribute to the National Honey Board	74.5	55.3	30.8	60.7
Other	13.3	12.8	6.4	12.2
Did not Participate	12.5	26.1	39.7	21.8

Sample Size = 606 (Full-time = 271, Part-time = 257, Hobby = 78)

Advertising activities of beekeepers, by type firm, 1988

Type firm					Advertising	g activity				
and	Local	Circulars	Beekeeping	Magazines	Community	Direct	Road	Word of	Other	Didn't
product or service	newspaper		journals		bulletin board	mail	signs	Mouth		advertise
					Percent	ı				
Full-time										
Honey	8.4	3.1	2.4	2.4	1.4	6.3	7.0	38.5	11.2	51.0
Honey with other products	2.4	0.7	1.0	1.0	0.3	2.1	1.0	9.4	4.9	85.0
Beeswax	0.3	0.0	1.0	0.3	0.3	0.3	0.3	14.7	3.5	81.8
Pollination services	2.4	1.0	0.7	1.4	0.3	1.4	0.3	21.7	4.2	73.4
Package bees and queens	0.7	0.3	2.8	0.3	0.0	1.0	0.3	6.3	2.1	90.2
Part-time			•							
Honey	10.0	3.1	0.3	0.3	3.4	2.1	17.2	50.5	8.6	39.5
Honey with other products	2.1	1.4	0.3	0.0	1.0	1.0	2.4	11.3	2.4	86.3
Beeswax	1.0	0.3	0.0	0.0	0.3	0.3	1.0	13.7	1,7	84.5
Pollination services	1.0	0.0	0.3	0.7	0.7	1.4	0.7	13.4	1.4	83.5
Package bees and queens	0.3	1.0	0.3	0.3	0.7	1.4	0.7	5.8	0.3	93.1
Hobby										
Honey	7.0	0.0	0.0	1.2	4.7	1.2	20.9	55.8	10.5	36.0
Honey with other products	3.5	1.2	2.3	2.3	0.0	1.2	2.3	3.5	0.0	94.2
Beeswax	0.0	0.0	0.0	0.0	0.0	0.0	1.2	3.5	2.3	94.2
Pollination services	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.3	0.0	97.7
Package bees and queens	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	0.0	98.8
Total			•							
Honey	8.9	2.7	1.2	1.4	2.7	3.8	13.3	46.0	10.0	44.0
Honey with other products	2.4	1.1	0.9	0.8	0.6	1.5	1.8	9.5	3.2	86.7
Beeswax	0.6	0.2	0.5	0.2	0.3	0.3	0.8	12.8	2.6	84.6
Pollination services	1.5	0.5	0.5	0.9	0.5	1.2	0.6	15.5	2.4	81.0
Package bees and queens	0.5	0.6	1.4	0.3	0.3	1.1	0.6	5.4	1.1	92.6

Sample Size = 663 (Full-time = 286, Part-time = 291, Hobby = 86)

PRODUCERS - POLLINATION SERVICES

Receipt of pollination fees, by type firm

Full time		Type Firm				
_ run unc	Part time	Hobby	Total			
	Number					
86	42	1	129			
92	45	1	138			
96	49	2	147			
103	51	0	154			
		•				
204	259	96	559			
198	256	96	550			
194	252	95	541			
187	250	97	534			
	92 96 103 204 198 194	86 42 92 45 96 49 103 51 204 259 198 256 194 252	86 42 1 92 45 1 96 49 2 103 51 0 204 259 96 198 256 96 194 252 95			

Receipt of pollination fees, by age and firm type, 1988

Receipt of pollinaud			Age Class			
pollination	Less than	35-44	45-54	55-64	65 years	Total
fees	35 years	years	years	years	or more	
			Number			
Full time				,		
Yes	4	39	24	19	15	101
No	22	40	42	50	25	179
All	26	79	66	69	40	280
Part time						
Yes	8	16	15	7	5	51
No	22	55	53	51	50	231
All	30	71	68	58	55	282
Hobby						
Yes	0	0	0	0	0	0
No	11	15	21	18	25	90 .
All	11	15	21	18	25	90
All response						
Yes	12	55	39	26	20	152
No	55	110	116	119	100	500
All	67	165	155	145	120	652
All	67	165	155	145	120	652

Sample Size = 652 36 did not respond Receipt of pollination fees, by age and firm type, 1988

Receipt of ponination			Age Class	-		
pollination	Less than	35-44	45-54	55-64	65 years	Total
fees	35 years	years	years	years	or more	
			Percent			
Full time						
Yes	4	39	24	19	15	100
No	12	22	23	28	14	100
All	9	28	24	25	14	100
Part time						
Yes	16	31	29	14	10	100
No	10	24	23	22	22	100
All	11	25	24	21	20	100
Hobby		•				
Yes						
No	12	17	23	20	28	100
All	12	17	23	20	28	100
All response						
Yes	8	36	26	17	13	100
· No	11	22	23	· 24	20	100
All	10	25	24	22	18	100

Sample Size = 652 36 did not respond Receipt of pollination fees, by education and firm type, 1988

Receipt of polimation	1005, 07 000		ducation Cla			
pollination	1 to 8	9 to 11	12	13 to 15	16 years	Total
fees	years	years	years	years	or more	
		_	Number			
Full time						
Yes	3	8	30	30	30	101
No	9	14	59	41	56	179
All	12	22	89	. 71	86	280
Part time						
Yes	1 1	3	14	11	22	51
No	20	23	82	39	70	234
All	21	26	96	50	92	285
Hobby						
Yes	0	0	0	0	0	0
No	7	5	29	24	25	90
All	7	5	29	24	25	90
All response						
Yes	4	11	44	41	52	152
· No	36	42	170	104	151	503
All	40	53	214	145	203	655
	L		<u> </u>	l	L	

Sample Size = 655 33 did not respond Receipt of pollination fees, by education and firm type, 1988

1 to 8	0.11				
	9 to 11	12	13 to 15	16 years	Total
years	years	years	years	or more	
		Percent			
			,		
3	8	30	30	30	100
5	8	33	23	31	100
4	8	32	25	31	100
2	6	27	22	43	100
9	10	35	17	30	100
7	9	34	18	32	100
8	6	32	27	28	100 ·
8	6	32	27	28	100
3	7	29	27	34	100
7	8	34	21	30	100
6	8	33	22	31	100
	3 5 4 2 9 7 8 8 8	3 8 5 8 4 8 2 6 9 10 7 9 8 6 8 6	Percent 3	3 8 30 30 5 8 33 23 4 8 32 25 2 6 27 22 9 10 35 17 7 9 34 18 8 6 32 27 8 6 32 27 3 7 29 27 7 8 34 21	3 8 30 30 30 5 8 33 23 31 4 8 32 25 31 2 6 27 22 43 9 10 35 17 30 7 9 34 18 32 8 6 32 27 28 8 6 32 27 28 8 6 32 27 28 3 7 29 27 34 7 8 34 21 30

Sample Size = 655 33 did not respond Honey production of producers receiving pollination fees, by type firm, 1985-88

Receive		Average honey production							
pollination		Tot	al			Per colony			
fees	1985	1986	1987	1988	1985	1986	1987	1988	
				Po	ounds				
Full-time									
YES	78,061	111,888	150,640	131,346	52	73	94	78	
NO	126,291	157,843	191,142	161,036	76	94	112	94	
Part-time									
YES	6,881	6,808	8,581	10,850	50	47	54	62	
NO	7,080	7,912	9,767	10,708	62	70	81	79	

1985 Sample Size = 418

1986 Sample Size = 452

1987 Sample Size = 475

Receipt of		Type Firm				
pollination fees	Full time	Part time	Hobby	Total		
		Number				
1985						
Yes	1,426	135	2	1,019		
No	1,639	114	11	682		
All	1,575	117	11	748		
1986			•			
Yes	1,584	140	2	1,102		
No	1,605	114	12	656		
All	1,599	118	12	748		
1987						
Yes	1,634	154	4	1,121		
No	1,674	122	14	671		
All	1,661	127	14	768		
1988						
Yes	1,732	177		1,217		
. No	1,666	133	15	656		
All	1,690	140	15	783		

1985 Sample Size = 635

1986 Sample Size = 653

1987 Sample Size = 670

-		Type Firm		
Cost item	Full time	Part time	Hobby	Total
Total miles hauled				
Mean	18,487	1,165		12,59
Median	7,350	455		2,35
Range-Min	10	20		1
Range-Max	150,000	5,000		150,00
Pollination receipts				
Mean	42,730	2,744		29,11
Median	20,127	1,809		7,47
Range-Min	250	117		11
Range-Max	298,866	17,182		298,86
Fotal colonies				
Mean	1,307	115		90
Median	580	74		30
Range-Min	22	12		1
Range-Max	6,000	581		6,00
Times relocated	•			
Mean	4	2		
Median	2	2		
Range-Min	1	1		
Range-Max	75	8		1
Miles per colony				
Мевл	14	10		1
Median	. 8	7		
Range-Min	0	0		
Range-Max	200	51		20
Receipts per colony				
Menn	32.68	23.81		32.2
Median	26.06	21.91		25.0
Range-Min	6.94	2.99		2.9
Range-Max	92.29	53.71		92.2
Receipts per mile				
Mean	2.31	2.36		2.3
Median	3.57	2.92		3.2
Range-Min	0.08	0.25		0.0
Range-Max	109.79	53.73		109.7

Sample Size = 94 594 did not report complete information

Characteristics of pollination services provided, full time beekeepers, 1988

Characteristics of po					
	State where		Average	Average	Beekeepers
Crop	service	colonies	fee	length	pollinating
	provided	used per acre	per colony	of service	crop
_		Number	Dollars	Days	Number
Alfalfa	CA	3.1	17.75	52	6
	ID	3.0	10.00	30	1
	MT			45	1
	UT	1.0	0.00	45	1
Almonds	CA	2.3	26.80	31	35
Apples	AL	1.0	15.00	14	1
11	CA	2.4	12.60	22	5
	IL		20.00	10	1
	ME		30.00	30	1
	MI	0.5	18.50	13	3
	MN	1.0	30.00	12	1
	OR	1.0	21.00	30	1
	UT		9.00	30	1
	, VT		20.00	10	1
	WA	1.6	21.33	20	6
1	WI ·		20.00	12	1
Apricots	WA	1.0	25.00	10	1
Avocado	CA	2.5	2.50	38	2
Blueberries	ME	1.5	30.00	26	2
	MI	1.0	19.17	22	3
	NC	1.0	15.00	28	1
Cabbage	CA	5.0	10.00	30	1
Cantalope	CA	1.0	11.00	26	2
	TX	1.0	20.00	40	1
	AZ	1.0	15.00	11	2
Carrots	ID	5.5	16.50	38	2

Characteristics of pollination services provided, full time beekeepers, 1988 (continued)

Characteristics of po	llination serv	ices provided,	full time bee	keepers, 198	3 (continued)
	State where	Average	Average	Average	Beekeepers
Crop	service	colonies	fee	length	pollinating
	provided	used per acre	per colony	of service	crop
		Number	Dollars	Days	Number
Cherries	CA	1.7	15.00	21	3
	MI	0.5	22.50	10	1
	OR	1.0	21.00	30	1
	UT		9.00	30	1
	WA	2.5	25.00	15	2
Citrus	CA	3.0	0.00	30	1
Clover	ID	3.0	18.00	30	1
Cotton	AZ	1.0	15.00	13	1
	CA	3.0	0.00	60	1
Cranberries	WI	1.0	30.00	25	1
Cucumbers	MI	0.3	35.00	12	1
	GA	1.0	10.00	30	1
	MI	0.5	21.50	25	2
	TX	2.0	15.00	15	1
Fruit	MI	1.0	25.00	7	1
Kiwi	CA	3.0	20.00	10	1
Melons	CA	1.3	14.17	31	6
	GA	0.5	10.00	30	1
Onions	CA	3.0	14.50	30	2
	. ID	5.5	16.50	38	2
	WA	3.0	20.00	30	1
Pears	W:A	2.3	25.00	18	2
Pickles	МІ	1.0	26.67	45	3
 	ОН	1.0	30.00	53	2
Plums	AL	1.0	15.00	14	1
	CA	1.7	28.67	19	3

Characteristics of pollination services provided, full time beekeepers, 1988 (continued)

	State where	Average	Average	Average	Beekeepers
Crop	service	colonies	fee	length	pollinating
	provided	used per acre	per colony	of service	crop
		Number	Dollars	Days	Number
	OR	1.0	21.00	. 30	1
Prunes	CA	1.8	2.83	19	3
Squash	CA	1.5	12.50	57	2
	FL	1.0	20.00	52	1
	MI	1.0	25.00	7	1
Sunflowers	ND	1.0	0.00	28	1
Vegetable Seed	CA	2.5	15.00	35	2

Characteristics of pollination services provided, part time beekeepers, 1988

Characteristics of po					
	State where	1	Average	Average	Beekeepers
Crop	service	colonies	fee	length	pollinating
	provided	used per acre	per colony	of service	crop
	ļ	Number	Dollars	Days	Number
Alfalfa	CA		18.00	60	1
Almonds	CA	2.5	25.77	36	9
Apples	CA		30.00	21	1
	IA	1.0	16.00	10	1
	IL	2.0	15.00	7	1
	MA	0.5	35.00	10	1
	MI	1.3	19.17	9	3
	NE	0.5	15.00	15	1
	NY	. 0.9	23.50	12	2
	OR	2.5	15.00	23	2
	PA	1.0	20.00	12	3
	UT	2.0	8.00	30	1
	VT	0.4	32.50	9	2
	WA	1.8	22.50	33	2
Blueberries	ME	0.3	26.00	30	1
	MI		15.00	21	1
	OR	2.8	15.33	29	3
	PA	1.0	20.00	20	1
Cantalope	MI	1.0	22.50	35	1
Cherries	OR	2.0	14.00	18	4
	UT	2.0	8.00	30	1
	WA	1.5	25.00	45	1
Clover	OR	1.3	11.33	27	3
Cucumber	OR	2.0	15.00	75	1

Characteristics of pollination services provided, part time beekeepers, 1988 (continued)

Crop	State where service	Average colonies	Average fee	Average length	Beekeepers pollinating
	provided_	used per acre	per colony	of service	crop
		Number	Dollars	Days	Number
	МІ	1.0	22.50	65	1
Fruit	MI	1.0	22.67	26	4
Pears	NY	1.0	23.00	8	1
	OR	1.5	10.00	. 10	1
	PA		20.00	21	1
Pickles	ОН	1.0	25.00	40	1
Raspberry	OR	2.0	15.00	36	2
Squash	OR	1.0	16.00	30	1
Vetch	OR	1.0	0.00	21	1
	_				

Producers receiving pollination fees, by family annual gross income, 1985-88

				Fam	ily annual gro	oss income					
Receive pollination	\$9,999 or	\$10,000 to	\$20,000 to	\$40,000 to	\$70,000 to	\$100,000 to	\$150,000 to	\$200,000 to	\$500,000 to	Over \$1,000,000	Total
fees	less	\$19,999_	\$39,999	\$69,999	\$99,999_	\$149,999	\$199,999	\$499,999	\$1,000,000		
- · ·					Numb	ег					
Full-time											
YES	16	12	25	27	8	6	2	1	1	0	98
NO	18	21	43	40	16	13	1	6	2	0	160
Part-time											
YES	0	9	24	17	3	3	0	0	0	0	56
NO	30	35	78	52	11	3	0	0	0	0	209

Producers receiving pollination fees, by gross income, 1985-88

						Gros	s Income						
Receive	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$40,000	\$50,000	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	
pollination	or	to	to	to	to	to	to	to	to	to	to	or	Total
fees	less	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	\$999,999	more	
					-	N	ımber						
Full-time	1												
YES	1	0	3	8	19	7	20	14	7	17	4	0	100
NO	1	1	7	26	29	18	29	22	3	23	4	2	165
Part-time													
YES	8	14	9	14	7	1	3	0	0	0	0	0	56
NO	69	49	42	33	13	1	2	1	0	0	0	0	210

Producers receiving pollination fees, by net income, 1985-88

		·			Net Income					
Receive	Costs	Broke	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$50,000	\$100,000	
pollination	exceeded	even	or	to	to	to	to	to	or	Total
fees	income		less	\$4,999	\$9,999	\$19,999	\$49,999	\$99,999	more	
					Number					
Full-time										
YES	11	4	5	7	19	17	28	5	2	98
NO	32	4	8	8	21	35	37	10	6	161
Part-time										
YES	13	4	16	. 10	. 7	4	2	0	0	56
NO	34	21	86	28	25	11	0	1	0	206

Producers receiving pollination fees, by total value of assets, 1985-8

	1		_		_		Total valu	e of assets		_					
Receive	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$40,000	\$50,000	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	\$1,500,000	\$2,000,000	
pollination	or	to	to	to	to	to	to	to	to	to	to	to	to	or	Total
fees	less	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	\$999,999	\$1,499,999	\$1,999,999	more	
					_		N	umber					_		
Full-time															
YES	0	0	1	2	8	2	18	14	10	24	15	3	2	1	100
NO	0	0	2	1	16	7.	32	17	22	41	13	10	2	4	167
Part-time															
YES	1	3	7	12	20	5	4	2	1	0	0	0	0	0	55
NO	24	26	37	40	42	10	19	6	2	1	0	0	0	1	208
						_									

Deadmore		pollination	face	her total	dabe	1085_88
PROGUCERS	WCC:VING	DOLLINEXION	TOOS.	nv mu	aent	1902-00

							Total de	DL				_			
No	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$40,000	\$50,000	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	\$1,500,000	\$2,000,000	
debt	or	to	to	to	to	to	to	to	to	to	to	to	to	or	Total
	less	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	\$999,999	\$1,499,999	\$1,999,999	more	
							N	umber							
28	3	4	6	5	17	3	12	8	4	10	1	0	0	0	101
69	7	6	11	11	17	6	16	15	6	3	2	0	1	0	170
39	5	3	4	2	1	1	0	0	0	0	0	0	0	0	55
158	12	10	8	8	6	3	1	0	0	0	0	1	0	0	207
_	28 69	debt or less 28 3 69 7 39 5	debt or to \$4,999 28 3 4 69 7 6 39 5 3	debt or less to \$4,999 to \$9,999 28 3 4 6 69 7 6 11 39 5 3 4	debt or less to \$4,999 to \$9,999 to \$19,999 28 3 4 6 5 69 7 6 11 11 39 5 3 4 2	debt or less to to \$4,999 to \$9,999 to \$19,999 to \$39,999 28 3 4 6 5 17 69 7 6 11 11 17 39 5 3 4 2 1	debt or loss to s4,999 to s9,999 to s19,999 to s39,999 to s39,999 to s49,999 28 3 4 6 5 17 3 69 7 6 11 11 17 6 39 5 3 4 2 1 1	No debt \$2,499 or less \$2,500 st,000 to	No debt \$2,499 \$2,500 \$50,000 \$10,000 \$20,000 \$40,000 \$50,000 \$100,000	No debt \$2,499 \$2,500 \$50,000 \$10,000 \$20,000 \$40,000 \$50,000 \$100,000 \$150,000 to to to to to to to to Number 28	No debt \$2,499 or less \$2,500 sto \$5,000 sto \$10,000 sto \$40,000 sto \$50,000 sto \$100,000 sto \$200,000 sto \$200,000 sto \$100,000 sto	No debt \$2,499 or leas \$2,500 st,000 sto \$10,000 sto \$150,000 sto \$20,000 sto \$40,000 sto \$150,000 sto \$20,000 sto \$50,000 sto \$150,000 sto \$20,000 sto \$50,000 sto \$150,000 sto \$200,000 sto \$500,000 sto	No debt \$2,499 \$2,500 \$50,000 \$10,000 \$20,000 \$40,000 \$50,000 \$150,000 \$200,000 \$500,000 \$1,000,000	No debt \$2,499 \$2,500 \$5,000 \$10,000 \$20,000 \$40,000 \$50,000 \$150,000 \$200,000 \$500,000 \$1,000,000 \$1,500,000	No \$2,499 \$2,500 \$5,000 \$10,000 \$20,000 \$40,000 \$50,000 \$150,000 \$20,000 \$150,000 \$150,000 \$15,000,000 \$1,500,000 \$2,000,

PRODUCERS - HONEY SUPPORT PROGRAM

Participation in honey price support program, by type firm

Use honey		Type firm		
price suppor	Full time	Part time	Hobby	Total
program				
		Number		
Yes	268	253	63	584
No	22	48	34	104
Total	290	301	97	688

Participation in honey price support program, by type firm and year

į		Туре	firm and use	of honey price	e support pro	gram _			
Year	Full t	ime	Part t	ime	Hobb	у _	Total		
	Yes	No	Yes	No	Yes	No	Yes	_ No	
				Numb	er				
1981	32	244	5	231	1	61	38	536	
1982	37	245	6	242	1	63	44	550	
1983	51	232	18	237	1	71	70	540	
1984	73	212	34	235	2	73	109	520	
1985	127	159	96	185	7	80	230	424	
1986	150	139	124	167	16	73	290	379	
1987	168	122	177	119	37	55	382	296	
1988	210	79	197	98	47	47	454	224	

1981 Sample Size = 574	114 Did not Respond
1982 Sample Size = 594	94 Did not Respond
1983 Sample Size = 610	78 Did not Respond
1984 Sample Size = 629	59 Did not Respond
1985 Sample Size = 654	34 Did not Respond
1986 Sample Size = 669	19 Did not Respond
1987 Sample Size = 678	10 Did not Respond
1988 Sample Size = 678	10 Did not Respond

Participation in honey price support program, by age

Participation in noney price support program, by age										
Use honey		_	Age Class	· · · · · · · · · · · · · · · · · · ·						
price support	Less than	35-44	45-54	55-64	65 years	Total				
program	35 years	years	years	years	or more					
			Number		1					
Full time										
Yes	31	75	61	65	34	266				
No	2	4	5	4	6	21				
All	33	79	66	69	40	287				
Part time										
Yes	27	62	64	50	39	242				
No	3	9	4	8	16	40				
All	30	71	68	58	55	282				
Hobby										
Yes	8	11	17	9	15	60				
No	3	4	4	9	10	30				
All	11	15	21	18	25	90				
All response	·									
Yes	66	148	142	124	88	568				
No	8	17	13	21	32	91				
All	74	165	155	145	120	659				

Sample Size=659 29 Did not Respond Participation in honey price support program, by education

Participation in noney price support program, by education										
Use honey		E	ducation Cla	ss						
price support	1 to 8	9 to 11	12	13 to 15	16 years	Total				
program	years	years	years	years	or more					
			Number							
Full time		i								
Yes	12	19	83	65	80	259				
No	0	3	5	6	6	20				
All	12	22	88	71	86	279				
Part time										
Yes	16	20	83	42	84	245				
No	5	6	13	8	8	40				
All	21	26	96	50	92	285				
Hobby										
Yes	2	2	20	16	20	60				
No	5	3	9	8	5	30				
All	7	5	29	24	25	90				
All response										
Yes	30	41	186	123	184	564				
· No	10	12	27	22	19	90				
All	40	53	213	145	203	654				
						_				

Sample Size=654 34 Did not Respond Average products and services produced or provided, by program participation and firm type

Average proc	verage products and services produced or provided, by program participation and firm type										
Use honey			Proc	ducts and serv	vices						
price support	Honey	Beeswax	Royal	Package	Nucs	Queens	Pollination				
program			jelly, etc	bees		sold	colonies				
		Pour	ds			Number -	. 				
Full time											
Yes											
1985	126,816	2,036	191	647	95	433	255				
1986	166,948	2,566	126	589	105	138	306				
1987	201,910	3,317	157	505	127	103	458				
1988	163,431	3,333	146	200	155	81	500				
No											
1985	85,741	1,770	55	49	106	60	481				
1986	111,997	2,071	199	109	121	1,163	476				
1987	142,117	2,294	238	51	136	185	445				
1988	121,847	1,963	387	82	108	314	441				
A11											
1985	101,591	1,873	107	280	101	204	394				
1986	133,367	2,264	171	296	114	765	410				
1987	166,546	2,712	205	237	132	151	450				
1988	143,123	2,664	264	142	132	195	471				
Part time	,										
Yes											
1985	8,434	101	12	0	1	0	19				
1986	8,647	115	23	0	1	23	21				
1987	10,731	127	55	0	2	0	25				
1988	11,140	434	35	0	2	5	28				

Average products and services produced or provided, by program participation and firm type (continued)

	Average products and services produced or provided, by program participation and firm type (continued)										
	Use honey			Proc	ducts and serv			,			
	price support	Honey	Beeswax	Royal	Package	Nucs	Queens	Pollination			
	program			jelly, etc	bees		sold	colonies			
			Poun	ds							
	No										
	1985	5,570	56	11	0	1	0	26			
	1986	6,215	64	15	0	4	0	26			
	1987	7,371	88	10	0	1	30	27			
	1988	9,120	114	63	0	0	24	34			
	All		ı								
•	1985	6,558	72	11	0	1	0	23			
	1986	7,205	85	18	0	3	9	24			
	1987	9,162	109	34	0	2	14	26			
	1988	10,204	286	48	0	1	14	31			
	Hobby					·					
	Yes										
	1985	1,200	25	0	0	0	0	0			
	1986	781	19	0	0	0	0	1			
	1987	1,114	10	0	0	0	0	0			
	1988	1,153	25	0	0	0	0	0			
	No			_							
	1985	680	7	0	0	0	0	3			
	1986	728	6	0	0	0	0	3			
	1987	780	9	0	0	0	0	2			
	1988	1,088	7	0	0	0	0	2			
	1										

Average products and services produced or provided, by program participation and firm type (continued)

Average products and services produced or provided, by program participation and firm type (continued)									
Use honey			Pro	ducts and serv	vices		1		
price support	Honey	Beeswax	Royal	Package	Nucs	Queens	Pollination		
program		ļ	jelly, etc	bees		sold	colonies		
All		Poun	ds			Number -			
1985	698	7	0	0	0	0	3		
1986	738	9	0	0	0	0	3		
1987	902	9	0	0	0	0	2		
1988	1,120	16	0	0	0	0	1		
All response				,					
Yes		[
1985	75,071	1,191	113	364	54	244	152		
1986	85,398	1,305	72	287	51	78	159		
1987	86,976	1,403	91	204	52	42	197		
1988	77,682	1,676	80	89	70	38	234		
No					I				
1985	40,083	803	28	22	47	26	222		
1986	53,600	970	97	50	56	530	228		
1987	72,483	1,158	120	25	67	102	228		
1988	59,718	947	203	38	50	154	217		
All				·					
1985	51,606	931	56	135	49	98	199		
1986	65,458	1,095	88	138	55	361	202		
1987	79,094	1,270	107	107	60	74	214		
1988	69,045	1,325	139	64	60	94	226		
1005 C1-	C:	107 D:d (D	1006 Camela	C: 520	140 Did not			

1985 Sample Size=501 187 Did not Respond1987 Sample Size=570 118 Did not Respond

1986 Sample Size=539 1988 Sample Size=572 149 Did not Respond116 Did not Respond

Size of beekeeping operations, by participation in the honey price support program and type firm

Size of beeke	eping operati	ions, by partic	cipation in the	noney price	support prog
Use honey					
price support			Year	<u>, </u>	
program	1985	1986	1987	1988	85-88 Ave
			Colonies		
Full time					
Yes					
Mean	1,618	1,662	1,707	1,737	1,668
Median	950	975	1,000	1,000	1,000
Min	175	300	250	168	300
Max	27,367	26,706	28,503	29,640	28,054
i					
No					
Mean	1,060	848	1,105	1,091	1,032
Median	775	650	800	672	788
Min	275	285	350	320	311
Max	5,500	2,910	5,500	5,500	4,263
1					
A11				,	
Mean	1,575	1,599	1,661	1,690	1,620
Median	900	923	1,000	1,000	963
Min	175	285	250	168	300
Max	27,367	26,706	28,503	29,640	28,054
1 [
Part time					
Yes					
Mean	121	122	132	148	131
Median	100	110	124	130	125
Min	7	10	20	18	25
Max	600	440	360	600	299

Size of beekeeping operations, by participation in the honey price support program and type firm (continued)

	eping operat	ions, by partie	cipation in the	e noney price	support prog
Use honey					
price support			Year	<u></u>	
program	1985	1986	1987	1988	85-88 Ave
			Colonies		
No				,	
Mean	96	95	101	98	98
Median	58	68	62	62	67
Min	15	20	26	25	26
Max	300	325	410	350	275
All					
Mean	117	118	127	140	126
Median	90	100	110	119	115
Min	7	10	20	18	25
Max	600	440	410	600	299
Hobby	I				
Yes					
Mean	12	13	15	17	14
Median	12	12	15	15	15
Min	2	2	2	2	2
Max	30	31	30	50	25
No					
Mean	9	10	10	10	10
Median	6	8	9	9	9
Min	2	3	1	2	3
Max	40	24	22	30	24
1.14.	,,,			50] -
I	1			1	I

Size of beekeeping operations, by participation in the honey price support program and type firm (continued)

	oping operat	ions, by parti	orpation in an	none price	support progr
Use honey					
price support			Year_		
program	1985	1986	1987	1988	85-88 Ave
All			Colonies		
Mean	11	12	14	15	13
Median	10	12	15	14	14
Min	2	2	1	2	2
Max	40	31	30	50	25
All response					
Yes	,				
Mean	828	837	849	869	824
Median	261	250	250	275	251
Min	2	2	2	2	2
Max	27,367	26,706	28,503	29,640	28,054
					,
No					
Mean	292	239	297	279	267
Median	50	52	49	50	55
Min	2	3	1	2	3
Max	5,500	2,910	5,500	5,500	4,263
·					
All					
Mean	748	748	768	783	740
Median	202	202	200	239	203
Min	2	2	1	2	2
Max	27,367	26,706	28,503	29,640	28,054

1985 Sample Size=635 53 Did not Respond 1987 Sample Size=670 18 Did not Respond 1986 Sample Size=653 1988 Sample Size=678 35 Did not Respond 10 Did not Respond

0

Participation in honey price support program, by family annual gross income, 1988

Use honey					annual gross						
orice support	Less than \$9,999	\$10,000 to \$19,999	\$20,000 to \$39,999	\$40,000 to \$69,999	\$70,000 to \$99,999	\$100,000 to \$149,999	\$150,000 to \$199,999	-	\$500,000 to \$1,000,000	Over \$1,000,000	Total
program	\$9,999	\$19,999	\$39,99 <u>9</u>	Φ02,333	Number	\$149,555	ψ199,999	94 33,33 <u>3</u>	\$1,000,000	\$1,000,000	
Full time					rumber	<u> </u>					
Yes	32	30	62	65	24	19	3	6	3	0	244
No	2	3	6	2	0	0	0	1	0	0	14
All	34	33	68	67	24	19	3	7	3	0	258
Part time											
Yes	22	39	84	65	13	6	0	0	0	0	229
No	8	6	18	4	1	0	0	0	0	0	37
All	30	45	102	69	14	6	0	0	0	0	266
Hobby											
Yes	6	9	28	11	4	0	0	0	0	0	58
No	2	6	9	5	2	0	0	1	0	0	25
All	8	15	37	16	6	0	0	1	.0	0	83
All response	ı				l					1	
Yes	60	78	174	141	41	25	3	6	3	0	531
No	12	15	33	11	3	0	0	2.	0	0	76
· All	72	93	207	152	44	25	3	8	3	0	607

Sample Size=607 81 Did not Respond

Size of beekeeping operations, by participation in the honey price support program and type firm (continued)

	oping operat	ions, of paris	<u> </u>	- 1101117 p11101	support progr
Use honey					
price support			Year		
program	1985	1986	1987	1988	85-88 Ave
All			Colonies		
Mean	11	12	14	15	13
Median	10	12	15	14	14
Min	2	2	1	2	2
Max	40	31	30	50	25
All response					
Yes					
Mean	828	837	849	869	824
Median	261	250	250	275	251
Min	2	2	2	2	2
Max	27,367	26,706	28,503	29,640	28,054
No					
Mean	292	239	297	279	267
Median	50	52	49	50	55
Min	2	3	1	2	3
Max	5,500	2,910	5,500	5,500	4,263
1 .					
All					
Mean	748	748	768	783	740
Median	202	202	200	239	203
Min	2	2	1	2	2
Max	27,367	26,706	28,503	29,640	28,054

1985 Sample Size=63553 Did not Respond1987 Sample Size=67018 Did not Respond

1986 Sample Size=653

35 Did not Respond 10 Did not Respond

0

Participation in honey price support program, by family annual gross income, 1988

Participation	in noney pric	e support pro	grain, by rain		_						
Use honey					annual gross						
price support	Less than	\$10,000 to	\$20,000 to	\$40,000 to	\$70,000 to	\$100,000 to	\$150,000 to	\$200,000 to	\$500,000 to	Over	Total
program	\$9,999	\$19,999	\$39,999	\$69,999	\$99,999	\$149,999	\$199,999	\$499,999	\$1,000,000	\$1,000,000	
				, i	Number]					
Full time								,			
Yes	32	30	62	65	24	19	3	6	3	0	244
No	2	3	6	2	0	0	0	1	0	0	14
All	34	33	68	67	. 24	19	3	7	3	0	258
Part time											
Yes	22	39	84	65	13	6	0	0	0	0	229
No	8	6	18	4	1	0	0	0	0	0	37
All	30	45	102	69	14	6	0	0	0	0	266
Hobby	'				I						
Yes	6	9	28	11	4	0	0	0	0	0	58
No	2	6	9	5	2	0	0	1	0	0	25
All	. 8	15	37	16	6	0	0	1	0	0	83
All response							li I				
Yes	60	78	174	141	41	25	3	6	3	0	531
No	12	15	33	11	3	0	0	2.	0	0	76
All	72	93	207	152	44	25	3	8	3	0	607
					<u> </u>						

Sample Size=607 81 Did not Respond Participation in honey price support program, by gross income, 1988

	Gross income												
Use honey	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$40,000	\$50,000	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	
price support	or	to	to	to	to	to	to	to	to	to	to	or	Total
program	less_	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	\$999,999	more	
					Number				l I			<u> </u>	
Full time				ļ						Ì			
Yes	2	1	10	31	43	22	45	35	10	38	8	2	247
. No	0	0	0	3	5	3	4	1	0	2	0	0	18
All	2	1	10	34	48	25	49	36	10	40	8	2	265
Part time											l		
Yes	61	52	47	43	20	2	5	1	0	0	0	0	231
No	16	11	4	4	0	0	0	0	0	0	0	0	35
All	77	63	51	47	20	2	5	1	0	0	0	0	266
Hobby												;	
Yes	55	2	0	1	0	0	0	0	0	0	0	0	58
· No	22	0	0	0	0	0	0	0	0	0	0	0	22
All	77	2	0	1	0	0	0	0	0	0	0	0	80
All response													
Yes	118	55	57	75	63	24	50	36	10	38	8	2	536
No	38	11	4	7	5	3	4	1	0	2	0	0	75
Al1	156	66	61	82	68	27	54	37	10	40	8	2	611

Sample Size=611
77 Did not Respond

63

Participation in honey price support program, by net income, 1988

	Net income												
Use honey	Costs	Broke	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$50,000	\$100,000				
price support	exceeded	even	or	to	to	to	to	to	or	Total			
program	income		less	\$4,999	\$9,999	\$19,999	\$49,999	\$99,999	more				
-					Number								
Full time													
Yes	38	6	13	14	38	47	63	14	8	241			
No	5	2	0	1	2	5	2	1	0	18			
All	43	8	13	15	40	52	65	15	8	259			
Part time						ı							
Yes	39	17	86	36	30	15	2	1	0	226			
No	8	8	16	2	2	0	0	0	0	36			
All	47	25 .	102	38	32	15	2	1	0	262			
Hobby			ļ										
Yes	17	10	29	2	0	0	0	0	0	58			
No	8	6	8	0	0	0	0	0	0	22			
All	25	16	37	2	0	0	0	0	0	80			
All response		•				,							
Yes	94	33	128	52	68	62	65	15	8	525			
No	21	16	24	3	4	5	2	1	0	76			
All	115	49	152	55	72	67	67	16	8	601			

Sample Size=601 87 Did not Respond

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Participation in honey price support program, by total value of assets, 1988 Total value of assets \$200,000 \$500,000 \$1,000,000 \$1,500,000 \$2,000,000 \$40,000 \$50,000 \$100,000 \$150,000 \$2,499 \$10,000 \$20,000 Use honey \$2,500 \$5,000 Total to to to to to to to price support or to to to \$149,999 \$199,999 \$499,999 \$999,999 \$1,499,999 \$1,999,999 \$4,999 \$9,999 \$19,999 \$39,999 \$49,999 \$99,999 more program less Number Full time Yes No All Part time Yes No All Hobby Yes No ΑIJ

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Sample Size=610
78 Did not Respond

All response

Yes

No

All

•	
_	"
	n

i								Total debt								
Use honey	No	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$40,000	\$50,000	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	\$1,500,000	\$2,000,000	
price support	debt	or	to	to	to	to	to	to	to	to	to	to	to	to	or	Total
program		less	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	\$999,999	\$1,499,999	\$1,999,999	more	
						Number]]	
Full time																
Yes	87	8	10	17	14	32	8	26	23	9	13	3	0	1	0	251
No	10	2	0	0	2	2 .	1	2	0	1	0	0	0	0	0	20
All	97	10	10	17	16	34	9	28	23	10	13	3	0	1	0	271
Part time																
Yes	170	14	12	11	8	6	4	1	0	0	0	0	1	0	0	227
No	27	3	1	1	2	1	0	0	0	0	0	0	0	0	0	35
All	197	17	13	. 12	10	7	4	1	0	0	0	0	1	0	0	262
Hobby																
Yes	52	4	1	1	0	0	0	0	0	0	0	0	0	0	0	58
No	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
All	75	4	1	1	0	0	0	0	0	0	0	0	0	0	0	81
All response																
Yes	309	26	23	29	22	38	12	27	23	9	13	3	1	1	0	,536
No	60	5	1	1	4	3	1	2	0	, 1	0	0	0	0	0	78
All	369	31	24	30	26	41	13	29	23	10	13	3	1	1	0	614

Sample Size=614 74 Did not Respond Average gross receipts from beekeeping products, services, and programs, by firm type

Type firm		I	Products, serv	ices, and pro	grams	<u>. </u>		1
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
year		Services		Bees	and nucs	payments		
				Dollars				
Full time								
Yes								
1985	8,203	8,304	2,014	4,051	3,044	75,543	3,711	104,871
1986	29,769	8,271	2,449	3,353	1,250	60,983	7,997	114,071
1987	55,668	12,045	3,002	2,777	1,868	73,887	11,382	160,628
1988	52,583	13,486	2,609	1,472	1,626	57,677	9,198	138,651
No								
1985	60,215	14,179	1,913	410	925	0	5,882	83,524
1986	76,690	14,706	1,532	1,336	7,300	0	5,192	106,756
1987	83,470	14,451	2,066	781	2,084	0	4,887	107,739
1988	69,413	17,601	1,693	1,673	3,211	0	1,386	94,977
All								
1985	38,280	11,701	1,956	1,946	1,818	31,859	4,966	92,526
1986	56,665	11,960	1,923	2,197	4,718	26,026	6,389	109,878
1987	71,151	13,385	2,480	1,665	1,989	32,738	7,765	131,174
1988	59,933	15,281	2,187	1,556	2,332	31,524	5,650	118,463
Part time								
Yes								
1985	1,374	420	72	0	20	4,303	33	6,222
1986	2,604	480	103	0	130	4,454	105	7,877
1987	4,549	619	111	2	40	6,409	190	11,921
1988	5,131	499	98	0	32	4,260	206	10,226

Average gross receipts from beekeeping products, services, and programs, by firm type (continued)

Type firm		I	Products, serv	ices, and pro	grams	·			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total	
year	_	Services		Bees	and nucs	payments			
				Dollars					
No									
1985	4,006	1,450	53	2	4	0	205	5,721	
1986	4,569	551	61	17	3	0	218	5,419	
1987	4,725	470	59	23	205	0	208	5,689	
1988	6,065	786	88	. 22	109	0	447	7,517	
All									
1985	2,899	1,017	61	1	11	1,810	133	5,932	
1986	3,644	518	81	9	63	2,096	165	6,576	
1987	4,620	560	90	10	106	3,845	197	9,428	
1988	5,508	615	94	9	63	2,541	303	9,132	
Hobby									
Yes	•								
1985	173	0	13	0	0	770	0	955	
1986	104	0	8	0	0	401	0	512	
1987	266	3	2	0 .	6	566	5	847	
1988	265	0	11	0	0	517	3	796	
No	•								
1985	427	0	3	0	0	0	0	429	
1986	403	1	3	0	0	0	0	407	
1987.	421	2	4	0	0	0	0	427	
1988	485	0	3	0	0	0	0	488	

Average gross receipts from beekeeping products, services, and programs, by firm type (continued)

	Type firm Products, services, and programs										
1 '' I							0.1	m.,			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total			
year		Services	·	Bees	and nucs	payments					
All				Dollars							
1985	400	0	4	0	0	81	0	484			
1986	324	1	4	0	0	106	0	435			
1987	341	2	3	0	3	293	3	644			
1988	350	0	8	0	0	318	2	678			
All response											
Yes											
1985	5,069	4,707	1,129	2,208	1,668	43,045	2,037	59,862			
1986	15,582	4,217	1,231	1,621	663	31,531	3,914	58,759			
1987	24,636	5,147	1,262	1,118	772	32,903	4,671	70,507			
1988	25,216	6,107	1,183	643	724	27,099	4,108	65,080			
No											
1985	30,944	7,470	953	201	452	0	2,945	42,966			
1986	39,197	7,382	771	658	3,560	0	2,615	54,184			
1987	46,889	7,989	1,140	431	1,200	0	2,718	60,367			
1988	36,561	8,958	867	831	1,620	0	859	49,696			
All [
1985	20,732	6,380	1,022	993	932	16,989	2,587	49,634			
1986	29,070	6,024	968	1,071	2,318	13,522	3,172	56,146			
1987	35,380	6,519	1,203	786	978	17,016	3,728	65,611			
1988	30,008	7,311	1,050	722	1,103	15,652	2,735	58,581			
1005 Camala		227 Did not 1		1006 Cample		10¢ Did not D					

1985 Sample Size=451 237 Did not Respond 1987 Sample Size=524 164 Did not Respond 1986 Sample Size=492

196 Did not Respond 153 Did not Respond

PRODUCERS - LABOR

Beckeeping labor utilization, by type firm and region, 1988

Region						,		Type finn							
and		,	Full-time					Part-time					Hobby		
source	(Jan-Mar)	(Apr-Jun)	(Jul-Sep)	(Oct-Dec)	Total	(Jan-Mar)			(Oct-Dec)	Total	(Jan-Mar	(Apr-Jun)	(Jul-Sep)	(Oct-Dec)	Total
							Ачета	ge hours p	er week						
Northeast															
Operator	36.2	54.0	55.2	36.9	45.8	9.3	20.4	18.8	14.1	16.2	0.2	1.0	1.5	1.1	1.1
Other family	19.4	18.5	18.5	13.0	17.3	4.8	3.4	3.6	3.4	3.7	0.0	0.0	0.3	0.0	0.1
Hired labor															
Full-time	19.4	26.6	27.0	23.9	24.3	0.2	0.6	0.6	0.2	0.4	0.0	0.0	0.0	0.0	0.0
Part-time	0.0	8.0	30.9	4.0	11.0	0.2	0.6	0.7	0.4	0.5	0.0	0.0	0.0	0.0	0.0
Sub-total	75.1	107.0	131.6	77.8	98.5	12.9	25.0	23.8	18.2	20.9	0.2	1.0	1.8	1.1	1.1
Southeast															
Operator	36.2	49.2	47.4	35.8	42.1	19.9	24.7	22.4	16.2	21.0	5.6	11.1	8.9	5.4	8.1
Other family	13.6	25.2	22.8	10.6	18.1	4.7	6.0	5.6	4.5	5.2	0.0	2.0	0.7	0.5	0.9
Hired labor	ĺ														
Full-time	18.2	23.3	28.3	16.7	21.6	0.1	0.4	0.4	0.1	0.3	0.0	0.0	0.0	0.0	0.0
Part-time	17.4	53.2	30.0	19.1	30.0	0.2	2.2	3.0	2.6	2.0	0.0	0.0	0.0	0.0	0.0
Sub-total	85.4	150.7	128.6	82.2	111.8	24.9	33.3	31.3	23.3	28.5	5.6	13.1	9.6	5.9	9.0
Midwest															
Operator	30.6	49.5	52.1	38.3	42.8	9.0	20.4	26.2	15.3	18.2	2.8	5.6	10.2	4.2	5.9
Other family	11.9	21.4	28.6	17.8	20.1	1.5	5.3	6.7	3.1	4.3	4.7	0.9	2.5	1.2	2.2
Hired labor															
Full-time	68.9	82.5	77.4	66.5	74.0	0.0	1.2	0.8	0.0	0.5	0.0	0.6	0.7	0.4	0.5
Part-time	37.4	50.3	26.4	8.7	30.9	0.3	0.8	2.7	0.7	1.2	0.0	0.6	0.7	0.4	0.5
Sub-total	148.8	203.7	184.6	131.2	167.8	10.9	27.7	36.4	19.1	24.2	7.6	7.8	14.1	6.2	9.0
West															
Operator	36.0	50.7	51.7	33.4	43.0	16.2	25.4	27.7	16.3	21.5	2.5	4.0	4.4	2.8	3.4
Other family	14.8	22.6	23.2	11.6	18.1	4.1	7.8	14.3	4.3	7.7	0.0	1.5	0.8	0.0	0.6
Hired labor					7										
Full-time	13.8	19.7	24.6	13.7	18.0	0.0	0.0	1.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Part-time	4.2	14.8	21.5	2.8	10.9	0.1	0.1	0.5	0.9	0.4	0.0	0.0	0.0	0.0	0.0
Sub-total	68.7	107.7	121.0	61.5	90.0	20.4	33.3	44.4	21.5	30.1	2.5	5.5	5.2	2.8	4.0

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Region						_		Type firm							
and		Full-time					Part-time						Hobby		
source	(Jan-Mar)	(Apr-Jun)	(Jul-Sep)	(Oct-Dec)	Total	(Jan-Mar)	(Apr-Jun)	(Jul-Sep)	(Oct-Dec)	Total	(Jan-Mar)	(Apr-Jun)	(Jul-Sep)	(Oct-Dec)	Tota
							Ачета	ge hours po	r week						
Northwest															
Operator	40.8	51.8	52.4	40.5	46.6	16.3	25.3	27.2	16.7	21.7	2.3	5.4	6.1	3.0	4.6
Other family	18.4	26.6	30.4	19.5	23.9	4.0	5.8	9.2	4.6	6.0	0.0	0.1	0.0	0.0	0.0
Hired labor									•						
Full-time	51.7	70.7	71.3	59.0	63.5	0.0	0.3	0.3	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Part-time	5.5	59.6	78.3	6.3	38.4	18.9	2.1	2.4	0.9	5.7	0.0	0.0	0.0	0.0	0.0
Sub-total	116.3	208.7	232.4	125.4	172.3	39.1	33.5	39.1	22.1	33.6	2.3	5.6	6.1	3.0	4.6
All regions															
Operator	35.8	50.6	51.6	37.7	44.1	13.4	22.6	24.8	15.6	19.4	2.8	5.6	10.2	4.2	5.9
Other family	15.0	23.7	27.0	16.0	20.5	3.3	5.6	7.4	3.7	5.1	4.7	0.9	2.5	1.2	2.2
Hired labor															
Full-time	43.7	56.9	57.0	45.7	51.0	0.0	0.7	0.8	0.0	0.4	0.0	0.6	0.7	0.4	0.5
Part-time	16.9	45.7	42.8	8.3	28.8	3.0	1.2	2.2	1.1	1.8	0.0	0.6	0.7	0.4	0.5
Sub-total	111.4	176.9	178.4	107.6	144.3	19.7	30.0	35.2	20.5	26.7	7.6	7.8	14.1	6.2	9.0

Labor utilization of producers, by type firm and honey production, 1988

	Honey production (pounds)										
		,	попеу р		(pounds)						
Туре	Less	1,250	15,000	25,000	50,000	250,000	500,000				
firm	than	to	to	to	to	to	or				
	1,250	14,999	_24,999	49,999	249,999	499,999	more				
			Averag	ge hours pe	er week						
Full-time	36.0	54.2	61.6	73.6	100.1	374.1	502.7				
Part-time	10.2	20.5	36.2	41.0	160.0		1				
Hobby	6.9	7.7									
All	8.8	22.7	46.2	62.1	101.2	374.1	502.7				

Labor utilization of producers receiving pollination income, by type firm and region, 1988

Receive							
pollination				Region			A11
fees	Nort	heast	Southeast	Midwest	West	Northwest	Regions
	Ì		Averag	ge hours per	week		-
Full-time							
Yes	10	4.3	153.5	90.2	92.5	145.2	117.0
No	89) .1	95.1	194.7	86.9	189.4	160.3
Part-time				•			
Yes	24	1.5	39.7	32.9	27.4	16.7	27.3
No	19	0.6	27.4	22.6	31.9	40.6	26.6

Labor utilization of producers, by type firm and net income, 1988

gative come	Less than \$2,500	_	\$10,000 to \$49,999 hours per w	\$50,000 to \$99,999 veek	More than \$99,999							
	\$2,500	\$9,999 Average l	\$49,999	\$99,999	· ·							
86.5		Average l			\$99,999							
86 5	90.4	_	hours per v	veek	_							
86.5	90.4	Average hours per week										
00.5	80.4	74.2	108.3	116.1	691.8							
7.8	20.3	31.1	48.0	9.3								
0.7	6.6	5.8										
24.8	24.1	49.6	101.7	109.1	691.8							
	0.7	0.7 6.6	0.7 6.6 5.8	0.7 6.6 5.8	0.7 6.6 5.8							

Average wage rate paid for hired labor, by type firm and region, 1988

				Region								
Type	Nort	heast	Sout	heast	Mid	west	Wes	st	North	west	All re	gions
firm	Full-time	Part-time										
	hired											
						Dolla	ars					
Full-time	8.19	5.06	4.79	4.04	5.71	4.64	5.45	4.81	6.19	4.61	5.83	4.59
Part-time Hobby	1.92	3.14	1.38	2.71	1.00	3.24	3.00	9.28	1.67	4.49	1.53	3.93
<u> </u>												

Sample Size = 687

The 97 Hobbyists did not report any wage rates

PRODUCERS - AVERAGE GROSS EXPENSES

Average gross expenses of producer operations, by type firm, 1988

Average gross expen			Type Fi					
Cost item	Full tim	ne	Part tirr		Hobb	у	Total	
	Per colony	Per pound						
				Dolla	us			
Labor								
Hired labor	11.74	0.140	2.69	0.036	0.396	0.005	11.06	0.133
Benefits	1.01	0.012	0.17	0.002	.0000	0.000	0.95	0.011
Other	3.85	0.046	0.83	0.011	0.165	0.002	3.62	0.044
Bees								
Bee food	4.23	0.050	2.15	0.028	1.209	0.016	4.07	0.049
Queens and nucs	1.29	0.015	1.64	0.022	3.008	0.040	1.32	0.016
Package bees	0.59	0.007	1.07	0.014	1.168	0.015	0.63	0.008
Supplies								
General	4.35	0.052	5.34	0.071	8.621	0.114	4.43	0.053
Containers etc.	3.10	0.037	4.82	0.064	4.773	0.063	3.23	0.039
Equipment								
Repair and Maint	3.71	0.044	3.48	0.046	2.707	0.036	3.69	0.044
Gas and oil	3.72	0.044	3.92	0.052	5.042	0.067	3.74	0.045
Buildings								
Repair and Maint	1.20	0.014	2.36	0.031	0.863	0.011	1.29	0.015
Mortgage	2.39	0.029	5.13	0.068	0.867	0.011	2.59	0.031
Overhead								
Utilities	1.37	0.016	1.91	0.025	1.122	0.015	1.41	0.017
1nsurance	2.15	0.026	1.29	0.017	0.052	0.001	2.09	0.025
Taxes	1.75	0.021	1.57	0.021	0.721	0.010	1.73	0.021
Rent	1.47	0.017	1.31	0.017	0.745	0.010	1.45	0.017
Interest on OC	1.70	0.020	0.60	0.008	0.000	0.000	1.62	0.019
Office expenses	0.46	0.005	0.35	0.005	0.017	0.000	0.45	0.005
Marketing								
Advertising	0.30	0.004	0.17	0.002	0.057	0.001	0.29	0.003
Subscriptions	0.06	0.001	0.16	0.002	0.416	0.005	0.06	0.001
Promotion	0.13	0.002	0.10	0.001	0.000	0.000	0.13	0.002
Fees	0.06	0.001	0.10	0.001	0.011	0.000	0.06	0.001
Other	2.57	0.031	1.60	0.021	1.417	0.019	2.50	0.030
Total	53.20	0.634	42.76	0.566	33.38	0.441	52.41	0.630

Sample Size=492

Full time = 224

196 did not respond

Part time = 210

Average gross expenses of producer operations who received pollination fees, by type firm, 1988

		огорогистопо	Type F		ees, by type firm, 1988		
Cost item	Full tim	ne	Part tim		Hobby	Total	
	Per colony	Per pound	Per colony	Per pound	Per colony Per pound	Per colony	Per pound
				Dolla	ars		
Labor							
Hired labor	10.81	0.144	3.39	0.053		10.45	0.140
Benefits	0.82	0.011	0.08	0.001		0.79	0.011
Other	4.31	0.057	1.89	0.030		4.19	0.056
Bees							
Bee food	3.98	0.053	1.62	0.025		3.87	0.052
Queens and nucs	1.27	0.017	1.62	0.025		1.29	0.017
Package bees	1.08	0.014	0.28	0.004		1.04	0.014
Supplies							
General	4.29	0.057	6.94	0.109		4.42	0.059
Containers etc.	2.46	0.033	6.62	0.104		2.66	0.036
Equipment							
Repair and Maint	3.67	0.049	4.51	0.071		3.71	0.050
Gas and oil	4.10	0.055	4.46	0.070		4.12	0.055
Buildings							
Repair and Maint	1.44	0.019	1.42	0.022		1.44	0.019
Mortgage	3.15	0.042	11.85	0.186		3.56	0.048
Overhead							
Utilities	1.34	0.018	1.55	0.024		1.35	0.018
Insurance	2.70	0.036	1.63	0.026		2.65	0.036
Taxes	2.49	0.033	0.94	0.015		2.42	0.033
Rent	1.52	0.020	0.58	0.009		1.47	0.020
Interest on OC	1.60	0.021	0.75	0.012		1.56	0.021
Office expenses	0.52	0.007	0.50	0.008		0.52	0.007
Marketing							
Advertising	0.20	0.003	0.20	0.003		0.20	0.003
Subscriptions	0.05	0.001	0.22	0.003		0.06	0.001
Promotion	0.13	0.002	0.25	0.004		0.13	0.002
Fees	0.05	0.001	0.07	0.001		0.05	0.001
Other	3.11	0.041	2.61	0.041		3.08	0.041
Total	55.08	0.735	54.00	0.845		55.03	0.740

Sample Size=123

Full time = 81

Part time = 42

Average gross expenses of produce	r operations who did no	t receive nollination fees	by type firm 1988

			Туре F	irm				
Cost item	Full tim	ne	Part tim	ne	Hobb	у	Total	
	Per colony	Per pound						
-				Dolla	ars			
Labor								
Hired labor	2.25	0.138	2.47	0.031	0.40	0.005	11.41	0.129
Benefits	1.13	0.013	0.20	0.002	0.00	0.000	1.04	0.012
Other	3.58	0.040	0.49	0.006	0.17	0.002	3.30	0.037
Bees								
Bee food	4.37	0.049	2.32	0.029	1.21	0.016	4.18	0.047
Queens and nucs	1.30	0.015	1.65	0.021	3.01	0.040	1.33	0.015
Package bees	0.31	0.003	1.31	0.017	1.17	0.015	0.40	0.004
Supplies								
General	4.39	0.049	4.83	0.061	8.62	0.114	4.44	0.050
Containers etc.	3.49	0.039	4.25	0.054	4.77	0.063	3.56	0.040
Equipment								
Repair and Maint	3.73	0.042	3.16	0.040	2.71	0.036	3.67	0.042
Gas and oil	3.49	0.039	3.75	0.047	5.04	0.067	3.52	0.040
Buildings								
Repair and Maint	1.06	0.012	2.66	0.034	0.86	0.011	1.20	0.014
Mortgage	1.94	0.022	3.00	0.038	0.87	0.011	2.03	0.023
Overhead								
Utilities	1.39	0.016	2.03	0.026	1.12	0.015	1.44	0.016
Insurance	1.83	0.021	1.18	0.015	0.05	0.001	1.77	0.020
Taxes	1.30	0.015	1.78	0.022	0.72	0.010	1.34	0.015
Rent	1.44	0.016	1.54	0.019	0.75	0.010	1.44	0.016
Interest on OC	1.76	0.020	0.55	0.007	0.00	0.000	1.65	0.019
Office expenses	0.42	0.005	0.30	0.004	0.02	0.000	0.41	0.005
Marketing								
Advertising	0.36	0.004	0.16	0.002	0.06	0.001	0.34	0.004
Subscriptions	0.06	0.001	0.15	0.002	0.42	0.005	0.07	0.001
Promotion	0.13	0.002	0.05	0.001	0.00	0.000	0.13	0.001
Fees	0.06	0.001	0.11	0.001	0.01	0.000	0.07	0.001
Other	2.25	0.025	· 1.28	0.016	1.42	0.019	2.17	0.025
Total	42.04	0.584	39.20	0.495	33.38	0.441	50.91	0.577

Sample Size=369

Full time = 143

Part time = 168

Average gross expenses of producer operations who received government payments, by type firm, 1988

Average gross expen			Type F					-
Cost item	Full tim	ne	Part tin	ne	Hobb	у	Total	
	Per colony	Per pound						
				Dolla	ars			
Labor								
Hired labor	12.95	0.153	3.36	0.045	0.22	0.00	12.24	0.140
Benefits	1.46	0.017	0.23	0.003	0.00	0.00	1.37	0.016
Other	4.84	0.057	1.26	0.017	0.32	0.00	4.58	0.054
Bees								
Bee food	5.07	0.060	1.80	0.024	1.44	0.02	4.83	0.057
Queens and nucs	1.46	0.017	1.62	0.021	3.87	0.05	1.48	0.018
Package bees	0.65	0.008	1.62	0.021	2.18	0.03	0.72	0.009
Supplies								
General	4.03	0.048	5.56	0.074	8.18	0.10	4.15	0.049
Containers etc.	3.99	0.047	5.70	0.075	5.10	0.06	4.11	0.049
Equipment								
Repair and Maint	3.70	0.044	2.88	0.038	3.91	0.05	3.64	0.043
Gas and oil	3.69	0.044	3.96	0.052	4.75	0.06	3.71	0.044
Buildings								
Repair and Maint	1.04	0.012	2.55	0.034	1.67	0.02	1.15	0.014
Mortgage	2.38	0.028	7.91	0.105	1.70	0.02	2.78	0.033
Overhead								
Utilities	1.32	0.016	1.89	0.025	0.62	0.01	1.36	0.016
Insurance	2.33	0.028	1.46	0.019	0.10	0.00	2.27	0.027
Taxes	1.72	0.020	1.08	0.014	0.24	0.00	1.67	0.020
Rent	. 1.73	0.020	1.10	0.015	0.60	0.01	1.68	0.020
Interest on OC	1.90	0.022	0.90	0.012	0.00	0.00	1.83	0.022
Office expenses	0.54	0.006	0.51	0.007	0.00	0.00	0.53	0.006
Marketing								
Advertising	0.43	0.005	0.19	0.003	0.11	0.00	0.41	0.005
Subscriptions	0.08	0.001	0.20	0.003	0.63	0.01	0.09	0.001
Promotion	0.18	0.002	0.08	0.001	0.00	0.00	0.17	0.002
Fees	0.07	0.001	0.05	0.001	0.02	0.00	0.07	0.001
Other	2.70	0.032	2.05	0.027	2.78	0.03	2.65	0.032
Total	58.24	0.687	47.99	0.635	38.44	0.480	57.47	0.683

Sample Size = 266

Full time = 118

Part time = 118

Average gross expenses of producer operations who did not receive government payments, by type firm, 1988

			Type Fi	rm				
Cost item	Full tim	ne	Part tirr	ne	Hobb	у	Total	
	Per colony	Per pound						
				Dolla	urs			_
Labor								
Hired labor	9.99	0.121	1.74	0.023	0.58	0.008	9.36	0.114
Benefits	0.37	0.004	0.09	0.001	0.00	0.000	0.35	0.004
Other	2.41	0.029	0.21	0.003	0.00	0.000	2.24	0.027
Bees								
Bee food	3.00	0.036	2.64	0.035	0.97	0.014	2.97	0.036
Queens and nucs	1.04	0.013	1.68	0.022	2.12	0.030	1.08	0.013
Package bees	0.52	0.006	0.28	0.004	0.12	0.002	0.50	0.006
Supplies								
General	4.82	0.058	5.02	0.066	9.08	0.128	4.85	0.059
Containers etc.	1.80	0.022	3.58	0.047	4.44	0.062	1.94	0.024
Equipment								
Repair and Maint	3.72	0.045	4.33	0.057	1.46	0.021	3.76	0.046
Gas and oil	3.76	0.046	3.86	0.051	5.34	0.075	3.77	0.046
Buildings			•					
Repair and Maint	1.45	0.018	2.08	0.028	0.02	0.000	1.49	0.018
Mortgage	2.41	0.029	1.20	0.016	0.00	0.000	2.32	0.028
Overhead								
Utilities	1.45	0.018	1.94	0.026	1.64	0.023	1.48	0.018
Insurance	1.89	0.023	1.04	0.014	0.00	0.000	1.83	0.022
Taxes	1.79	0.022	2.27	0.030	1.22	0.017	1.82	0.022
Rent	1.09	0.013	1.60	0.021	0.90	0.013	1.12	0.014
Interest on OC	1.41	0.017	0.17	0.002	0.00	0.000	1.31	0.016
Office expenses	0.35	0.004	0.12	0.002	0.03	0.000	0.33	0.004
Marketing					•			
Advertising	0.11	0.001	0.13	0.002	0.00	0.000	0.11	0.001
Subscriptions	0.03	0.000	0.11	0.001	0.19	0.003	0.03	0.000
Promotion	0.06	0.001	0.12	0.002	0.00	0.000	0.06	0.001
Fees	0.03	0.000	0.17	0.002	0.00	0.000	0.04	0.001
Other	• 2.40	0.029	0.97	0.013	0.00	0.000	2.28	0.028
Total	45.86	0.556	35.34	0.467	28.12	0.396	45.04	0.549

Sample Size = 226

Full time = 106

Part time = 92

Average gross expenses of producer operations, by colony size, 1988

							Colony:							
Cost item	Less the		25 to 29		300 to 4		500 to		1,000 to		5,000 to	9,999	10 <u>,0</u> 00 o	
	Per colony	Per pound	Per colony	Per pound	Per colony	Per pound		Per pound	Per colony	Per pound	Per colony	Per pound	Per colony	Per pound
							Dolla	rs	•					
Labor														
Hired labor	0.30	0.004	2.95	0.041	2.76	0.036	7.29	0.089		0.115	17.10	0.250		0.23
Benefits	0.00	0.000	0.25	0.003		0.000	0.65	0.008	0.79	0.008	2.59	0.038	0.68	0.01
Other	0.22	0.003	2.00	0.028	0.02	0.000	3.14	0.038	3.66	0.039	7.71	0.113	1.50	0.02
Bees														
Bee food	1.23	0.015	1.95	0.027	1.89	0.025	2.84	0.035	4.08	0.043	7.16	0.105		0.05
Queens and nucs	3.96	0.047	1.83	0.025		0.016	1.60	0.020	1.36	0.014	1.57	0.023	0.39	0.00
Package bees	1.56	0.019	1.53	0.021	0.28	0.004	0.58	0.007	0.84	0.009	0.23	0.003	0.00	0.00
Supplies														
General	6.48	0.077	5.62	0.078		0.052	2.57	0.031	4.52	0.048	6.66	0.097	2.64	0.04
Containers etc.	6.19	0.074	6.64	0.092	3.15	0.042	15.50	0.189	1.88	0.020	0.76	0.011	0.19	0.00
Equipment														
Repair and Maint	3.08	0.037	3.93	0.054	1.93	0.025	4.18	0.051	3.65	0.039	4.31	0.063	3.34	0.05
Gas and oil	4.29	0.051	4.17	0.058	3.67	0.048	3.69	0.045	4.12	0.044	3.62	0.053	2.20	0.03
Buildings														
Repair and Maint	1.37	0.016	1.94	0.027	1.43	0.019	2.73	0.033	1.15	0.012	1.21	0.018	0.41	0.00
Mortgage	1.15	0.014	5.18	0.072	2.91	0.038	2.56	0.031	3.07	0.033	1.92	0.028	0.10	0.00
Overhead												•		
Utilities	1.52	0.018	2.02	0.028	1.62	0.021	1.58	0.019	1.43	0.015	1.25	0.018	0.99	0.01
Insurance	0.07	0.001	1.58	0.022	1.04	0.014	1.61	0.020	2.16	0.023	3.90	0.057	0.82	0.01
Taxes	0.94	0.011	2.05	0.028	1.25	0.017	2.58	0.031	1.70	0.018	2.41	0.035	0.47	0.00
Rent	0.96	0.011	1.40	0.019	1.12	0.015	1.31	0.016	1.29	0.014	2.78	0.041	0.90	0.01
Interest on OC	0.00	0.000	0.78	0.011	0.45	0.006	2.00	0.024	1.49	0.016	1.95	0.028	2.31	0.03
Office expenses	0.00	0.000	0.43	0.006	0.22	0.003	0.30	0.004	0.43	0.005	0.32	0.005	0.88	0.01
Marketing														
Advertising	0.06	0.001	0.19	0.003	0.07	0.001	0.94	0.012	0.22	0.002	0.19	0.003	0.31	0.00
Subscriptions	0.54	0.006	0.17	0.002	0.11	0.002	0.25	0.003	0.03	0.000	0.05	0.001	0.00	0.00
Promotion	0.00	0.000	0.10	0.001	0.10	0.001	0.45	0.005	0.12	0.001	0.08	0.001	0.01	0.00
Fees	0.04	0.000	0.16	0.002	0.05	0.001	0.25	0.003	0.03	0.000	0.01	0.000	0.03	0.00
Other	2.11	0.025	1.59	0.022	1.68	0.022	1.98	0.024	2.92	0.031	3.42	0.050	0.95	0.01
Total	36.08	0.429	48.45	0.669	30.93	0.408	60.59	0.737	51.84	0.550	71.21	1.041	37.71	0.58

Sample Size=492

Less than 25 = 52 25 to 299 = 202 196 did not respond

1000 to 4999 = 106

10,000 or more = 3

300 to 499 = 57 500 to 999 = 63

5000 to 9999 = 9

Average gross expenses of producer operations, by honey production, 1988

						Honey	production (p	ounds)						
Cost item	Less than			0 14,999		to 24,999		to 49,999	50,000 to	249,999	250,000 to	499,999	500,000 o	more
	Per colony	Per pound	Per colony	Per pound	Per colony	Per pound		Per pound	Per colony	Per pound	Per colony	Per pound	Per colony	Per pound
							Dolla	rs						
Labor														
Hired labor	1.07	0.068	2.94	0.069	2.15		4.17	0.057	7.74	0.107	13.79	0.153		0.18
Benefits	0.00	0.000	0.22	0.005	0.02		0.29	0.004	0.63	0.009	1.10	0.012		0.01
Other	0.08	0.005	1.92	0.045	0.00	0.000	0.62	0.008	2.23	0.031	6.32	0.070	5.78	0.04
Bees														
Bee food	2.38	0.152	1.98	0.046	1.41	0.025	2.68	0.037	2.92	0.040	4.83	0.053	7.09	0.06
Queens and nucs	2.77	0.177	1.46	0.034	0.98	0.017	1.44	0.020	1.40	0.019	1.55	0.017	0.89	0.00
Package bees	0.38	0.024	1.04	0.024	1.07	0.019	0.49	0.007	0.73	0.010	0.75	0.008	0.16	0.00
Supplies														
General	5.30	0.339	3.34	0.078	3.58	0.062	4.17	0.057	3.39	0.047	2.49	0.028	8.98	0.07
Containers etc.	2.89	0.185	4.94	0.116	5.12	0.089	2.31	0.032	4.94	0.068	2.16	0.024	0.57	0.00
Equipment														
Repair and Maint	2.79	0.178	3.64	0.085	3.06	0.053	2.52	0.035	3.26	0.045	4.11	0.046	4.63	0.03
Gas and oil	3.10	0.199	3.19	0.075	5.23	0.091	3.65	0.050	3.28	0.045	3.51	0.039	4.74	0.04
Buildings														
Repair and Maint	0.30	0.019	1.35	0.032	1.14	0.020	2.00	0.027	1.07	0.015	1.47	0.016	1.29	0.01
Mortgage	2.09	0.134	1.98	0.047	3.59	0.062	4.27	0.059	2.33	0.032	4.16	0.046	0.91	0.00
Overhead	1													
Utilities	1.36	0.087	1.44	0.034	2.08	0.036	1.63	0.022	1.10	0.015	1.42	0.016	1.77	0.01
Insurance	1.02	0.065	1.32	0.031	1.37	0.024	1.24	0.017	1.62	0.022	2.62	0.029	3.09	0.02
Taxes	2.26	0.145	1.66	0.039	1.76	0.031	1.40	0.019	1.80	0.025	1.82	0.020	1.62	0.01
Rent	1.56	0.100	1.23	0.029	0.85	0.015	0.83	0.011	1.08	0.015	1.71	0.019	2.28	0.01
Interest on OC	0.00	0.000	0.59	0.014	1.06	0.019	1.36	0.019	1.28	0.018	1.49	0.017	2.92	0.02
Office expenses	0.07	0.004	0.26	0.006	0.58	0.010	0.31	0.004	0.28	0.004	0.49	0.005	0.83	0.00
Marketing														
Advertising	0.03	0.002	0.19	0.004	0.09	0.002	0.11	0.002	0.37	0.005	0.23	0.003	0.32	0.00
Subscriptions	0.17	0.011	0.16	0.004	0.13	0.002	0.08	0.001	0.08	0.001	0.03	0.000	0.03	0.00
Promotion	0.00	0.000	0.07	0.002	0.04	0.001	0.11	0.002	0.17	0.002	0.17	0.002	0.06	0.00
Fees	0.07	0.004	0.14	0.003	0.05	0.001	0.03	0.000	0.07	0.001	0.06	0.001	0.02	0.00
Other	1.34	0.086	1.84	0.043	3.10	0.054	0.75	0.010	1.69	0.023	3.48	0.039	3.73	0.032
Total	31.01	1.984	36.91	0.866	38.46	0.670	36.46	0.500	43.44	0.599	59.77	0.662	74.93	0.63

Sample Size=492 Less than 1250 = 51 1250 to 14999 = 183 196 did not respond 15000 to 24999 = 49 25000 to 49999 = 64

50,000 to 249999 = 106250000 to 499999 = 26 500000 or more = 13

Average gross expenses of full-time producer operations, by region, 1988

						Regi	on		_			
Cost item	Northw	est	Northea	ıst	Souther	ast	Midwe	est	West	<u> </u>	Tota	<u>!</u>
	Per colony	Per pound										
						Dolla	ars					
Labor												
Hired labor	14.83	0.173	17.49	0.230	7.27	0.106	10.47	0.101	8.07	0.114	11.74	0.140
Benefits	1.44	0.017	3.75	0.049	0.11	0.002	0.95	0.009	0.35	0.005	1.01	0.012
Other	4.90	0.057	3.14	0.041	1.73	0.025	3.52	0.034	3.44	0.049	3.85	0.046
Bees												
Bee food	5.78	0.068	2.60	0.034	2.25	0.033	3.96	0.038	2.27	0.032	4.23	0.050
Queens and nucs	1.28	0.015	0.88	0.012	0.76	0.011	1.96	0.019	1.03	0.015	1.29	0.015
Package bees	0.84	0.010	0.69	0.009	0.24	0.004	0.48	0.005	0.37	0.005	0.59	0.007
Supplies												
General	5.45	0.064	1.40	0.018	3.64	0.053	4.57	0.044	2.08	0.030	4.35	0.052
Containers etc.	1.25	0.015	5.13	0.067	1.94	0.028	9.68	0.093	0.96	0.014	3.10	0.037
Equipment	•											
Repair and Maint	4.04	0.047	2.94	0.039	2.60	0.038	4.61	0.044	2.81	0.040	3.71	0.044
Gas and oil	4.62	0.054	3.15	0.041	2.16	0.032	3.32	0.032	3.25	0.046	3.72	0.044
Buildings												
Repair and Maint	1.28	0.015	1.04	0.014	0.98	0.014	1.45	0.014	0.92	0.013	1.20	0.014
Mortgage	2.30	0.027	1.80	0.024	0.72	0.011	2.77	0.027	3.90	0.055	2.39	0.029
Overhead												
Utilities	1.51	0.018	1.20	0.016	0.94	0.014	1.66	0.016	1.05	0.015	1.37	0.016
Insurance	2.55	0.030	2.09	0.027	1.38	0.020	1.92	0.019	2.08	0.029	2.15	0.026
Taxes	1.88	0.022	1.56	0.020	1.34	0.020	2.08	0.020	1.38	0.020	1.75	0.021
Rent	2.05	0.024	0.75	0.010	0.95	0.014	0.90	0.009	1.11	0.016	1.47	0.017
Interest on OC	1.94	0.023	1.74	0.023	1.16	0.017	2.11	0.020	1.03	0.015	1.70	0.020
Office expenses	0.57	0.007	0.60	0.008	0.10	0.001	0.52	0.005	0.39	0.006	0.46	0.005
Marketing												
Advertising	0.23	0.003	0.32	0.004	0.11	0.002	0.80	0.008	0.06	0.001	0.30	0.004
Subscriptions	0.04	0.000	0.05	0.001	0.02	0.000	0.14	0.001	0.05	0.001	0.06	0.001
Promotion	0.09	0.001	0.00	0.000	0.04	0.001	0.36	0.004	0.07	0.001	0.13	0.002
Fees	0.02	0.000	0.33	0.004	0.01	0.000	0.19	0.002	0.01	0.000	0.06	0.001
Other	3.12	0.037	2.02	0.027	0.40	0.006	3.93	0.038	1.49	0.021	2.57	0.031
Total	62.01	0.725	54.68	0.718	30.86	0.452	62.36	0.602	38.17	0.541	53.20	0.634

Sample Size=224

Northwest = 66

Southeast = 33

West = 47

Northeast = 9

Midwest = 69

Average gross expenses of part-time producer operations, by region, 1988

	Region											
Cost item	Northw	est	Northea	ıst	Souther		Midwe		West		Tota	<u> </u>
_	Per colony	Per pound										
						Dolla	ırs					
Labor	l											
Hired labor	2.88	0.041	1.78	0.029	3.34	0.053	2.96	0.034	1.20	0.016	2.69	0.036
Benefits	0.36	0.005	0.14	0.002	0.08	0.001	0.18	0.002	0.00	0.000	0.17	0.002
Other	0.07	0.001	0.62	0.010	0.00	0.000	1.85	0.021	0.00	0.000	0.83	0.011
Bees												
Bee food	2.66	0.038	1.79	0.029	2.17	0.034	2.35	0.027	0.81	0.011	2.15	0.028
Queens and nucs	2.98	0.042	0.79	0.013	1.25	0.020	1.65	0.019	1.16	0.015	1.64	0.022
Package bees	1.03	0.015	0.41	0.007	0.00	0.000	2.07	0.023	0.08	0.001	1.07	0.014
Supplies												
General	7.91	0.112	3.68	0.059	4.24	0.067	5.94	0.067	2.64	0.035	5.34	0.071
Containers etc.	3.04	0.043	6.89	0.111	3.26	0.051	5.25	0.059	6.60	0.087	4.82	0.064
Equipment												
Repair and Maint	3.08	0.043	4.49	0.073	2.14	0.034	4.24	0.048	2.38	0.031	3.48	0.046
Gas and oil	4.08	0.058	2.40	0.039	2.36	0.037	4.14	0.047	8.07	0.106	3.92	0.052
Buildings	Ì											
Repair and Maint	4.06	0.057	2.88	0.047	1.94	0.031	1.92	0.022	1.09	0.014	2.36	0.031
Mortgage	2.59	0.037	4.01	0.065	1.58	0.025	7.46	0.084	9.07	0.119	5.13	0.068
Overhead												
Utilities	1.72	0.024	2.28	0.037	1.12	0.018	2.26	0.026	1.92	0.025	1.91	0.025
Insurance	1.28	0.018	1.26	0.020	0.85	0.013	1.45	0.016	1.55	0.020	1.29	0.017
Taxes	1.29	0.018	2.99	0.048	0.76	0.012	1.80	0.020	0.82	0.011	1.57	0.021
Rent	1.70	0.024	1.36	0.022	2.10	0.033	0.69	0.008	1.46	0.019	1.31	0.017
Interest on OC	0.79	0.011	0.31	0.005	0.75	0.012	0.43	0.005	1.03	0.014	0.60	0.008
Office expenses	0.38	0.005	0.31	0.005	0.29	0.005	0.43	0.005	0.12	0.002	0.35	0.005
Marketing												
Advertising	0.11	0.002	0.18	0.003	0.22	0.003	0.16	0.002	0.15	0.002	0.17	0.002
Subscriptions	0.18	0.003	0.21	0.003	0.14	0.002	0.15	0.002	0.16	0.002	0.16	0.002
Promotion	0.04	0.001	0.27	0.004	0.00	0.000	0.14	0.002	0.00	0.000	0.10	0.001
Fees	0.06	0.001	0.00	0.000	0.33	0.005	0.03	0.000	0.14	0.002	0.10	0.001
Other	1.26	0.018	0.57	0.009	2.46	0.039	0.80	0.009	5.29	0.070	1.60	0.021
Total	43.56	0.614	39.62	0.641	31.40	0.496	48.34	0.547	45.73	0.603	42.76	0.566

Sample Size=210

Northwest = 34

Southeast = 41

West = 17

Northeast = 32

Midwest = 86

Average gross expenses of hobby producer operations, by region, 1988

						Regi	on					
Cost item	Northw	est	Northea	ıst	Southea	ıst	Midw	est	West	1	<u>To</u> ta	1
	Per colony	Per pound	Per colony	Per pound								
						Dolla	ars				_	
Labor												
Hired labor	1.16	0.020	0.00	0.000	0.27	0.005	0.33	0.003	0.00	0.000	0.396	0.00
Benefits	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.000	0.00
Other	0.00	0.000	0.00	0.000	0.39	0.006	0.00	0.000	0.00	0.000	0.165	0.002
Bees												
Bee food	1.15	0.020	0.00	0.000	0.94	0.016	1.90	0.020	0.00	0.000	1.209	0.01
Queens and nucs	0.38	0.007	0.70	0.012	1.23	0.020	4.64	0.050	17.44	0.113	3.008	0.046
Package bees	1.35	0.024	0.00	0.000	0.49	0.008	2.25	0.024	0.00	0.000	1.168	0.01
Supplies												
General	11.89	0.207	2.30	0.040	9.63	0.159	7.73	0.082	1.74	0.011	8.621	0.114
Containers etc.	1.20	0.021	0.63	0.011	4.44	0.073	4.53	0.048	24.42	0.158	4.773	0.063
Equipment												
Repair and Maint	0.23	0.004	1.00	0.017	2.42	0.040	4.53	0.048	1.43	0.009	2.707	0.036
Gas and oil	9.38	0.164	0.38	0.007	5.66	0.093	2.65	0.028	7.44	0.048	5.042	0.067
Buildings												
Repair and Maint	0.00	0.000	0.25	0.004	1.69	0.028	0.40	0.004	0.00	0.000	0.863	0.01
Mortgage	0.00	0.000	0.00	0.000	2.05	0.034	0.00	0.000	0.00	0.000	0.867	0.011
Overhead												
Utilities	0.26	0.005	0.38	0.007	0.82	0.014	0.50	0.005	11.63	0.075	1.122	0.015
Insurance	0.00	0.000	0.00	0.000	0.00	0.000	0.15	0.002	0.00	0.000	0.052	0.001
Taxes	0.28	0.005	0.00	0.000	0.92	0.015	0.65	0.007	1.51	0.010	0.721	0.010
Rent	1.12	0.020	0.00	0.000	0.57	0.009	0.81	0.009	1.40	0.009	0.745	0.010
Interest on OC	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.000	0.000
Office expenses	0.11	0.002	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.017	0.000
Marketing												
Advertising	0.00	0.000	0.00	0.000	0.14	0.002	0.00	0.000	0.00	0.000	0.057	0.001
Subscriptions	0.30	0.005	0.30	0.005	0.26	0.004	0.56	0.006	1.28	0.008	0.416	0.003
Promotion	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.00	0.000	0.000	0.000
Fees	0.00	0.000	0.00	0.000	0.03	0.000	0.00	0.000	0.00	0.000	0.011	0.000
Other	0.00	0.000	0.00	0.000	3.32	0.055	0.04	0.000	0.00	0.000	1.417	0.019
Total	28.82	0.502	5.93	0.103	35.26	0.582	31.68	0.338	68.29	0.443	33.38	0.441

NE: MW: CT; MA; MD; ME; NH; NJ; NY; PA; VT; DE; RI

SE:

AL; AR; GA; FL; LA; MO; MS; NC; SC; TN; VA; WV

IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

Sample Size=58

Northwest = 7

Southeast = 21

West = 4

W:

AZ; CO; CA; NM; NV; UT; WY; HI NW:

AK; ID; MT; ND; NE; OR; SD; WA

Northeast = 4

Midwest = 22

PRODUCERS - AVERAGE GROSS RECEIPTS

Average gross receipts from beekeeping products, services, and programs, by firm type, 1988

Average gross recei	Pro mom occac	ching broducts	, sei vices, and	programs, by	min type,190	<u> </u>		
Type firm		Pro	oducts, service	es, and program	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		_
				Dollars				
Full-time	Ì							
Per colony	33.49	7.20	1.20	0.95	1.40	17.82	2.25	64.31
Per pound	0.399	0.086	0.014	0.011	0.017	0.212	0.027	0.767
Part-time								
Per colony	36.58	3.57	0.64	0.06	0.43	15.96	1.48	58.71
Per pound	0.484	0.047	0.008	0.001	0.006	0.211	0.020	0.777
 Hobby								
Per colony	21.34	0.00	0.53	0.00	0.00	15.91	0.11	37.89
Per pound	0.282	0.000	0.007	0.000	0.000	0.210	0.001	0.501
Total Total								
Per colony	33.68	6.93	1.16	0.88	1.33	17.68	2.19	63.85
Per pound	0.405	0.083	0.014	0.011	0.016	0.212	0.026	0.767
	L							

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Average gross receipts from beekeeping products, services, and programs of operations who received pollination fees, by firm type, 1988

Type firm		Pro	oducts, service	es, and progran	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		
				Dollars				
Full-time								
Per colony	33.86	19.28	1.45	0.72	0.59	10.46	4.50	70.86
Per pound	0.452	0.257	0.019	0.010	0.008	0.140	0.060	0.946
Part-time								
Per colony	39.20	14.83	0.54	0.00	0.15	12.08	2.40	69.21
Per pound	0.614	0.232	0.008	0.000	0.002	0.189	0.038	1.083
Hobby								
Per colony								
Per pound								
Total								
Per colony	34.12	19.07	1.40	0.68	0.57	10.54	4.40	70.78
Per pound	0.459	0.256	0.019	0.009	0.008	0.142	0.059	0.951

Sample Size = 123 (Full-time = 81, Part-time = 42, Hobby = 0)

Average gross receipts from beekeeping products, services, and programs of operations who did not receive pollination fees, by firm type, 1988

Type firm		Pro	oducts, service	s, and progran	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		
				Dollars			-	
Full-time								
Per colony	33.26	0.00	1.06	1.09	1.89	22.21	0.91	60.41
Per pound	0.373	0.000	0.012	0.012	0.021	0.249	0.010	0.677
Part-time							·	
Per colony	35.74	0.00	0.67	0.08	0.52	17.18	1.19	55.38
Per pound	0.451	0.000	0.009	0.001	0.007	0.217	0.015	0.699
Hobby								
Per colony	21.34	0.00	0.53	0.00	0.00	15.91	0.11	37.89
Per pound	0.282	0.000	0.007	0.000	0.000	0.210	0.001	0.501
Total								
Per colony	33.43	0.00	1.02	1.00	1.76	21.75	0.93	59.90
Per pound	0.379	0.000	0.012	0.011	0.020	0.246	0.011	0.678

Sample Size = 369 (Full-time = 143, Part-time = 168, Hobby = 58)

Average gross receipts from beekeeping products, services, and programs of operations who received government payments, by firm type, 1988

Type firm		Pro	oducts, service	s, and progran	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
<u>unit</u>		Services		Bees	and nucs	payments		
				Dollars				-
Full-time								
Per colony	27.67	6.89	1.44	0.81	0.88	30.04	3.14	70.87
Per pound	0.326	0.081	0.017	0.010	0.010	0.354	0.037	0.836
Part-time			•					
Per colony	35.32	3.67	0.70	0.00	0.23	27.21	1.52	68.65
Per pound	0.468	0.049	0.009	0.000	0.003	0.360	0.020	0.909
Hobby								
Per colony	19.51	0.00	0.87	0.00	0.00	31.24	0.22	51.83
Per pound	0.243	0.000	0.011	0.000	0.000	0.390	0.003	0.647
Total								
Per colony	28.20	6.65	1.39	0.75	0.83	29.84	3.02	70.67
Per pound	0.335	0.079	0.017	0.009	0.010	0.355	0.036	0.840

Sample Size = 266 (Full-time = 118, Part-time = 118, Hobby = 30)

Average gross receipts from beekeeping products, services, and programs of operations who did not receive government payments, by firm type, 198

Type firm		Pro	oducts, service	s, and progran	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		
				Dollars				
Full-time								
Per colony	41.97	7.67	0.85	1.15	2.16	0.00	0.95	54.76
Per pound	0.509	0.093	0.010	0.014	0.026	0.000	0.012	0.663
Part-time								
Per colony	38.36	3.42	0.56	0.14	0.70	0.00	1.42	44.61
Per pound	0.507	0.045	0.007	0.002	0.009	0.000	0.019	0.590
Hobby								
Per colony	23.25	0.00	0.17	0.00	0.00	0.00	0.00	23.41
Per pound	0.327	0.000	0.002	0.000	0.000	0.000	0.000	0.330
Total								
Per colony	41.65	7.33	0.83	1.08	2.05	0.00	0.99	53.93
Per pound	0.508	0.089	0.010	0.013	0.025	0.000	0.012	0.658

Sample Size = 226 (Full-time = 106, Part-time = 92, Hobby = 28)

Average gross receipts from beekeeping products, services, and programs of operations, by colony size, 1988

Colony size		Pro	oducts, service	s, and program	_		-	
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit	1	Services		Bees	and nucs	payments		
				Dollars				
Less than 25								
Per colony	27.80	0.00	0.72	0.00	0.00	22.05	0.15	50.72
Per pound	0.331	0.000	0.009	0.000	0.000	0.262	0.002	0.604
25 to 299								
Per colony	35.85	3.75	0.67	0.07	0.35	16.70	1.68	59.07
Per pound	0.495	0.052	0.009	0.001	0.005	0.231	0.023	0.816
300 to 499								
Per colony	29.85	3.80	0.45	0.00	0.69	13.31	1.69	49.79
Per pound	0.394	0.050	0.006	0.000	0.009	0.175	0.022	0.656
500 to 999								
Per colony	38.55	6.81	0.92	0.18	0.12	16.22	0.56	63.35
Per pound	0.469	0.083	0.011	0.002	0.001	0.197	0.007	0.771
1,000 to 4,999								
Per colony	37.83	8.27	1.41	0.90	2.07	17.60	3.40	71.48
Per pound	0.401	0.088	0.015	0.010	0.022	0.187	0.036	0.758
5,000 to 9,999								
Per colony	29.96	7.55 ,	1.33	2.76	1.13	15.60	0.07	58.40
Per pound	0.438	0.110	0.019	0.040	0.017	0.228	0.001	0.854
10,000 or more								
Per colony	18.09	3.78	0.68	0.00	0.24	23.62	1.46	47.86
Per pound	0.280	0.059	0.011	0.000	0.004	0.366	0.023	0.741
Total					,			
Per colony	33.68	6.93	1.16	0.88	1.33	17.68	2.19	63.85
Per pound	0.405	0.083	0.014	0.011	0.016	0.212	0.026	0.767

Sample Size = 492

Less than 25 = 52 300 to 499 = 57

25 to 299 = 202 500 to 999 = 63

1,000 to 4,999 = 1065,000 to 9,999 = 9 10,000 or more = 3

Average gross receipts from beekeeping products, services, and programs of operations, by honey production, 1988

Average gross receip Honey production				s, and program				
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		<u></u>
				Dollars				
Less than 1,250								
Per colony	7.51	5.40	0.15	0.00	0.05	3.51	5.19	21.81
Per pound	0.480	0.345	0.010	0.000	0.003	0.225	0.332	1.395
1,250 to 14,999								
Per colony	18.25	4.13	0.45	0.07	0.43	10.55	1.07	34.95
Per pound	0.428	0.097	0.010	0.002	0.010	0.248	0.025	0.820
15,000 to 24,999								
Per colony	30.97	10.17	0.58	0.00	0.16	11.31	3.59	56.78
Per pound	0.540	0.177	0.010	0.000	0.003	0.197	0.062	0.989
25,000 to 49,999								
Per colony	32.91	4.31	0.55	0.24	0.48	16.60	0.06	55.15
Per pound	0,449	0.059	0.008	0.003	0.007	0.226	0.001	0.752
50,000 to 249,999								
Per colony	32.97	7.57	1.03	1.72	0.64	10.98	1.08	55.98
Per pound	0.455	0.104	0.014	0.024	0.009	0.151	0.015	0.772
250,000 to 499,999								
Per colony	38.84	9.71	1.85	0.84	3.30	15.30	6.20	76.05
Per pound	0.430	0.107	0.021	0.009	0.037	0.169	0.069	0.842
500,000 or more								
Per colony	35.54	4.00	1.26	0.00	1.40	36.68	0.89	79.76
Per pound	0.302	0.034	0.011	0.000	0.012	0.311	0.008	0.677
Total								
Per colony	33.68	6.93	1.16	0.88	1.33	17.68	2.19	63.85
Per pound	0.405	0.083	0.014	0.011	0.016	0.212	0.026	0.767

Sample Size = 492

Less than 1250 = 51 15000 to 24999 = 49 1250 to 14999 = 183 25000 to 49999 = 64 50000 to 249999 = 106 250,000 to 499,999 = 26 500,000 or more = 13

Average gross receipts from beekeeping products, services, and programs of full-time operations, by region, 1988

Region		Pro	oducts, service	s, and program	ns	<u>, </u>		
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit		Services		Bees	and nucs	payments		
_				Dollars				
Northwest								
Per colony	29.13	10.45	1.37	0.08	0.81	21.56	4.37	67.78
Per pound	0.340	0.122	0.016	0.001	0.010	0.252	0.051	0.792
Northeast								
Per colony	31.84	2.38	1.19	0.00	0.60	13.12	0.00	49.13
Per pound	0.418	0.031	0.016	0.000	0.008	0.172	0.000	0.645
Southeast				•				
Per colony	21.63	1.29	0.66	3.33	0.50	8.84	0.02	36.27
Per pound	0.317	0.019	0.010	0.049	0.007	0.129	0.000	0.531
Midwest								
Per colony	47.56	1.48	1.24	0.86	3.99	25.19	0.47	80.79
Per pound	0.459	0.014	0.012	800.0	0.038	0.243	0.005	0.779
West .								
Per colony	40.02	11.57	1.22	1.37	0.82	7.32	0.91	63.21
Per pound	0.567	0.164	0.017	0.019	0.012	0.104	0.013	0.896
Total								
Per colony	33.49	7.20	1.20	0.95	1.40	17.82	2.25	64.31
Per pound	0.399	0.086	0.014	0.011	0.017	0.212	0.027	0.767

 Sample Size=224
 Northwest = 66
 Southeast = 33
 West = 47
 Northeast = 9
 Midwest = 69

 NE:
 CT; MA; MD; ME; NH; NJ; NY; PA; VT; DE; RI
 W:
 AZ; CO; CA; NM; NV; UT; WY; HI

NW:

AK; ID; MT; ND; NE; OR; SD; WA

SE: AL; AR; GA; FL; LA; MO; MS; NC; SC; TN; VA; WV

MW: IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

Average gross receipts from beekeeping products, services, and programs of part-time operations, by region, 1988

Region	L	Pro	oducts, service	s, and progran	ns			
and	Honey	Pollination	Beeswax	Package	Queens	Government	Other	Total
unit	1	Services		Bees	and nucs	payments		
				Dollars	_			
Northwest	1							
Per colony	24.61	5.32	0.51	0.00	1.72	17.89	3.33	53.37
Per pound	0.347	0.075	0.007	0.000	0.024	0,252	0.047	0.753
Northeast								
Per colony	32.23	4.65	0.98	0.00	0.64	6.35	2.29	47.14
Per pound	0.521	0.075	0.016	0.000	0.010	0.103	0.037	0.762
Southeast								
Per colony	35.19	1.61	0.76	0.00	0.00	9.99	0.81	48.37
Per pound	0.556	0.025	0.012	0.000	0.000	0.158	0.013	0.764
Midwest								
Per colony	41.51	2.36	0.62	0.00	0.08	22.41	0.65	67.63
Per pound	0.470	0.027	0.007	0.000	0.001	0.254	0.007	0.766
West	ļ							
Per colony	47.69	7.72	0.24	0.61	0.00	11.45	1.64	69.35
Per pound	0.629	0.102	0.003	0.008	0.000	0.151	0.022	0.914
Total								
Per colony	36.58	3.57	0.64	0.06	0.43	15.96	1.48	58.71
Per pound	0.484	0.047	0.008	0.001	0.006	0.211	0.020	0.777

Sample Size=210	Northwest $= 34$	Southeast = 41	West = 17		Northeast $= 32$	Midwest = 86
NE:	CT; MA; MD; ME; NH; NJ; NY; PA; VT	; DE; RI		W:	AZ; CO; CA; NM; NV;	UT; WY; HI
SE:	AL; AR; GA; FL; LA; MO; MS; NC; SC;	TN; VA; WV		NW:	AK; ID; MT; ND; NE; (OR; SD; WA
MW:	IA; IL; IN; KS; KY; MI; MN; OH; WI; O	K; TX				

Average gross receipts from beekeeping products, services, and programs of hobby operations, by region, 1988

Region	Products, services, and programs							
and unit	Honey	Pollination Services	Beeswax	Package Bees	Queens and nucs	Government payments	Other	Total
Northwest	1							
Per colony	24.52	0.00	0.00	0.00	0.00	5.90	0.00	30.42
Per pound	0.427	0.000	0.000	0.000	0.000	0.103	0.000	0.530
Northeast				•				
Per colony	26.57	0.00	1.88	0.00	0.00	1.47	0.00	29.92
Per pound	0.463	0.000	0.033	0.000	0.000	0.026	0.000	0.521
Southeast								
Per colony	22.26	0.00	0.70	0.00	0.00	6.25	0.00	29.20
Per pound	0.367	0.000	0.011	0.000	0.000	0.103	0.000	0.482
Midwest								
Per colony	18.55	0.00	0.34	0.00	0.00	35.96	0.33	55.18
Per pound	0.198	0.000	0.004	0.000	0.000	0.383	0.003	0.588
West								
Per colony	18.37	0.00	0.70	0.00	0.00	3.49	0.00	22.56
Per pound	0.119	0.000	0.005	0.000	0.000	0.023	0.000	0.146
Total	}							
Per colony	· 21.34	0.00	0.53	0.00	0.00	15.91	0.11	37.89
Per pound	0.282	0.000	0.007	0.000	0.000	0.210	0.001	0.501

Sample Size=58	Northwest = 7	Southeast = 21	West = 4	Northeast = 4	Midwest = 22
NE:	CT; MA; MD; ME; NH; NJ; NY; PA	; VT; DE; RI	W:	AZ; CO; CA; NM; N	V; UT; WY; HI
SE:	AL; AR; GA; FL; LA; MO; MS; NC;	SC; TN; VA; WV	NW:	AK; ID; MT; ND; NE	; OR; SD; WA

MW: IA; IL; IN; KS; KY; MI; MN; OH; WI; OK; TX

PRODUCERS - NET INCOME

Net income of beekeeping operations, by firm type, 1988

Unit		Type firm							
	Full-time	Full-time Part-time		Total					
_									
Dollars									
Per colony	11.11	15.95	4,51	11.44					
· .									
Per pound	0.133	0.211	0.060	0.137					

Compiled from previous tables.

Net income less government payments of beekeeping operations, by firm type, 1988

Unit		Type firm						
	Full-time	Part-time	Hobby	Total				
		Dollars						
Per colony Per pound	-6.71 -0.079	-0.01 0.000	-11.40 -0.150	-6.24 -0.075				

Net income of beekeeping operations who received pollination fees, by firm type, 1988

Unit		Type firm					
	Full-time	Part-time	Hobby	Total			
		Dollars					
Per colony	15.78	15.21		15.75			
Per pound	0.211	0.238		0.211			

Compiled from previous tables.

Net income of beekeeping operations who did not receive pollination fees, by firm type, 1988

Unit		Type firm						
	Full-time	Part-time	Hobby	Total				
		Dollars						
Per colony	18.37	16.18	4.51	8.99				
Per pound	0.093	0.204	0.060	0.101				

Net income of beekeeping operations who received government payments, by firm type, 1988

Unit		Type firm		
	Full-time Part-time I		Hobby	Total
		Dollars		
Per colony	12.63	20.66	13.39	13.20
Per pound	0.149	0.274	0.167	0.157

Compiled from previous tables.

Net income of beekeeping operations who did not receive government payments, by firm type, 1988

Unit		Type firm			
	Full-time	Hobby	Total		
		Dollars	'		
Per colony	8.90	9.27	-4.71	8.89	
Per pound	0.107	0.123	-0.066	0.109	

Net income of beekeeping operations, by colony size, 1988

Unit		Colony Size								
	Less than 25	25 to 299	300 to 499	500 to 999	1,000 to 4,999	5,000 to 9,999	More than 10,000	Total		
				Dollars						
Per colony	14.64	10.62	18.86	2.76	19.64	-12.81	10.15	11.44		
Per pound	0.175	0.147	0.248	0.034	0.208	-0.187	0.157	0.137		

Compiled from previous tables.

Net income of beekeeping operations, by honey production, 1988

Unit		Honey production								
	Less than 1,250	1,250 to 4,999	15,000 to 24,999	25,000 to 49,999	50,000 to 249,999	250,000 to 499,999	More than 500,000	Total		
		-		Dollars		_				
Per colony	-9.20	-1.96	18.32	18.69	12.54	16.28	4.83	11.44		
Per pound	-0.589	-0.046	0.319	0.252	0.173	0.180	0.041	0.137		

Net income of beekeeping operations, by firm type and region, 1988

Region		Region						
and	Northwest	Northeast	Southeast	Midwest	West	Total		
unit								
			Dollars					
Full-time								
Per colony	5.77	-5.55	5.41	18.43	25.04	11.11		
Per pound	0.067	-0.073	0.079	0.177	0.355	0.133		
Part-time	15							
Per colony	9.81	7.52	16.97	19.29	23.62	15.95		
Per pound	0.139	0.121	0.268	0.213	0.311	0.211		
Hobby								
Per colony	1.60	23.99	-6.06	23.50	-45.73	4.51		
Per pound	0.028	0.418	-0.100	0.250	-0.297	0.060		

Net income per colony, by firm type, 1988

				Net income	e per colony				
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00	
type	exceeded	tơ	to	to	to	to	to	or	Total
	income	9.99	24.99	49.99	7 <u>4.9</u> 9	99.99	149.99	more	
				Num	ber				
Full-time	61	27	50	53	16	9	6	2	224
Part-time	62	24	45	46	15	9	7	2	210
Hobby	24	8	6	13	2	2	1	2	58
All	147	59	101	112	33	20	14	6	492

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Net income per colony, by firm type, 1988

			Net income	per colony				
Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00]
exceeded	to	to	to	to	to	to	or	Total
type exceeded income		24.99	49.99	74.99	99.99	149.99	more	
	_		Perce	ent				
27	12	22	24	7	4	3	1	100
30	11	21	22	7	4	3	1	100
41	14	10	22	3	3	2	3	100
30	12	21	23	7	4	3	1	100
	exceeded income 27 30 41	exceeded to 9.99 27 12 30 11 41 14	exceeded income to to 9.99 24.99 27 12 22 30 11 21 41 14 10	Costs exceeded income 0.00 to to 49.99 10.00 to 49.99 27 12 22 24 30 11 21 22 41 14 10 22	exceeded income to 49.99 74.99 Percent 27 12 22 24 7 30 11 21 22 7 41 14 10 22 3	Costs exceeded income 0.00 to income 10.00 to to 49.99 50.00 to to to to 75.00 Percent 27 12 22 24 7 4 30 11 21 22 7 4 4 1 14 10 22 3 3 3 21 22 3 3 3	Costs exceeded income 0.00 to income 10.00 to ito ito income 25.00 to ito ito ito ito ito ito ito ito ito	Costs exceeded income 0.00 to income 10.00 to to 49.99 50.00 to to to to to income 75.00 to to to to to income 100.00 to to or income Percent 27 12 22 24 7 4 3 1 30 11 21 22 7 4 3 1 41 14 10 22 3 3 2 3

Net income per pound, by firm type, 1988

				Net income	per pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25	1
type	exceeded	to	to	to	to	to	to	or	Total
	income	0.09	0.24	0.49	0.74	0.99	1,24	more	
			_	Num	ber		•		
Full-time	61	19	39	55	25	10	9	6	224
Part-time	62	14	22	65	18	15	2	12	210
Hobby	24	5	4	12	5	4	2	2	58
All	147	38	65	132	48	29	13	20	492

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Net income per pound, by firm type, 1988

		Net income per pound											
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25					
type	exceeded	to	to	to	to	to	to	or	Total				
	income	0.09	0.24	0.49	0.74	0.99	1.24	more					
				Perce	ent			_					
Full-time	27	8	17	25	11	4	4	3	100				
Part-time	30	7	10	31	9	· 7	1	6	100				
Hobby	41	9	7	21	9	7	3	3	100				
All	30	8	13	27	10	6	3	4	100				

Net income less government payments per colony, by firm type, 1988

				Net income	per colony				
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00	
type	exceeded	to	to	to	to	to	to	or	Total
	income_	9.99_	24.99	49.99	74.99	99.99	149.99	more	
				Num	ber				
Full-time	97	29	39	43	9	6	1	0	224
Part-time	106	23	33	29	11	6	1	1	210
Hobby	33	7	6	9	1	0	0	2	58
All	236	59	78	81	21	12	2	3	492

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Net income less government payments per colony, by firm type, 1988

		Net income per colony											
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00					
type	exceeded	to	to	to	to	. to	to	or	Total				
<u> </u>	income	9.99	24.99	49.99	74.99	99.99	149.99	more					
				Perce	ent								
Full-time	43	13	17	19	4	3	0	0	100				
Part-time	50	11	16	14	5	3	0	0	100				
Hobby	57	12	10	16	2	0	0	3	100				
All	48	12	16	16	4	2	. 0	1	100				

Net income less government payments per pound, by firm type, 1988

				Net income	per pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25	
type	exceeded	to	to	to	to	to	to	or	Total
	income	0.09	0.24	0.49	0.74	0.99	1.24	more	
			,	Num	ber				<u>-</u>
Full-time	97	24	25	49	15	6	6	2	224
Part-time	106	11	26	42	11	5	2	7	210
Hobby	33	. 5	4	7	6	0	1	2	58
All	236	40	55	98	32	11	9	11	492

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Net income less government payments per pound, by firm type, 1988

				Net income	e per pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25	1
type	exceeded	to	to	to	to	to	to	or	Total
	income	0.09	0.24	0.49	0.74	0.99	1.24	more	
				Perce	ent				
•						•			
Full-time	43	11	11	22	7	3	3	1	100
Part-time	50	5	12	20	5	2	1	3	100
Hobby	57	9	7	12	10	0	2	3	100
All	48	8	11	20	7	2	. 2	2	100

Net income per colony by receipt of pollination fees, by firm type, 1988

· ·				Net income	per colony	_			
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00	
type	exceeded	to	to	to	to	to	to	or	Total
	income	9.99	24.99	49.99	74.99	99,99	149.99	more	
				Num	ber				
Received									
Full-time	16	10	23	17	8	4	3	0	81
Part-time	10	5	10	13	2	2	0 .	0	42
Hobby									
All	26	15	33	30	10	6	3	0	123
Did not recieve									
Full-time	45	17	27	36	8	5	3	2	143
Part-time	52	19	35	33	13	7	7	2	168
Hobby	24	8	6	13	2	2	1	2	58
Ali	121	44	68	82	23	14	11	6	369 ·

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 123 (Full-time = 81, Part-time = 42, Hobby = 0)

Did not receive = 369 (Full-time = 143, Part-time = 168, Hobby = 58).

Net income per colony by receipt of pollination fees, by firm type, 1988

		_		Net income	per colony				
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00	
type	exceeded	to	to	to	to	to	to	or	Total
	income	9.99	24.99	49.99	74.99	99.99	149.99	more	
		_		Perce	ent				
Received	- [
Full-time	20	12	28	21	10	5	4	0	100
Part-time	24	12	24 .	31	5	5	0	0	100
Hobby									
All	21	12	27	24	8	5	2	0	100
Did not recieve									
Full-time	31	12	19	25	6	3	2	1	100
Part-time	31	11	21	20	8	4	4	1	100
Hobby	41	14	10	22	3	3	2	3	100
All	33	12	18	22	6	4	3	2	100

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 123 (Full-time = 81, Part-time = 42, Hobby = 0)

Did not receive = 369 (Full-time = 143, Part-time = 168, Hobby = 58)

Net income per pound by receipt of pollination fees, by firm type, 1988

				Net income	per pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25	
type	exceeded	to	to	to	to	to	to	or	Total
	income	0.09	_0.24	0.49	0.74	0.99	1.24	more	_
				Num	ber				
Received									
Full-time	16	6	10	24	10	6	6	3	81
Part-time	10	2	6	11	1	5	0	7	42
Hobby									
All	26	8	16	35	11	11	6	10	123
Did not recieve									
Full-time	45	13	28	32	15	4	3	3	143
Part-time	52	12	17	53	17	10	2	5	168
Hobby	24	5	4	12	5	4	2	2	58
All	121	30	49	97	37	18	7	10	369

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 123 (Full-time = 81, Part-time = 42, Hobby = 0)

Did not receive = 369 (Full-time = 143, Part-time = 168, Hobby = 58)

Net income per pound by receipt of pollination fees, by firm type, 1988

to	0.10 0.2 to to 0.24 0.4 12 30 14 26	to 9 0.74 Percent 12	0.75 to 0.99 7 12	1.00 to 1.24 7 0	1.25 or more	Total
7	12 30	9 0.74 Percent	0.99	1.24 7	more 4	100
7	12 30	Percent 12	7	7	4	
		12	•	•		
			•	•		
			•	•		
5	14 26	2	12	0	17	
				•	17	100
7	13 28	9	9	5	8	100
9	20 22	10	3	2	2	100
7	10 32	10	6	1	3	100
Q	7 21	9	7	3	3	100
,	13 26	10	5	2	3	100
		7 10 32 9 7 21	7 10 32 10 9 7 21 9	7 10 32 10 6 9 7 21 9 7	7 10 32 10 6 1 9 7 21 9 7 3	7 10 32 10 6 1 3 9 7 21 9 7 3 3

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 123 (Full-time = 81, Part-time = 42, Hobby = 0)

Did not receive = 369 (Full-time = 143, Part-time = 168, Hobby = 58)

Net income per colony by receipt of government payments, by firm type, 1988

				Net income	per colony				
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00]
type	exceeded	to	to	to	to	to	to	or	Total
	income	9.99	24.99	49.99	74.99	99.99	_ 149.99	more	
		_		Num	ber				
Received									
Full-time	23	13	27	28	13	7	5	2	118
Part-time	23	15	25	33	10	5	6	1	118
Hobby	10	4	6	5	1	2	1	1	30
All	56	32	58	66	24	14	12	4	266
Did not recieve									
Full-time	38	14	23	25	3	2	1	0	106
Part-time	39	9	20	13	5	4	1	1	92
Hobby] 14	4	0	8	1	0	0	1	28
All	91	27	43	46	9	6	2	2	226

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 266 (Full-time = 118, Part-time = 118, Hobby = 30)

Net income per colony by receipt of government payments, by firm type, 1988

				Net income	per colony			_	
Firm	Costs	0.00	10.00	25.00	50.00	75.00	100.00	150.00	
type	exceeded	to	to	to	to	to	to	or	Total
	income	9.99	24.99	49.99	74.99	99.99_	149.99	more	
			_	Perce	ent				
Received									
Full-time	19	11	23	24	11	6	4	2	100
Part-time	19	13	21	28	8	4	5	1	100
Hobby	33	13	20	17	3	7	3	3	100
All	21	12	22	25	9	5	5	2	100
Did not recieve									
Full-time	36	13	22	24	3	2	1	0	100
Part-time	42	10	22	14	5	4	1	1	100
Hobby	50	14	0	29	4	0	0	4	100
All	40	12	19	20	4	3	1	1	100

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 266 (Full-time = 118, Part-time = 118, Hobby = 30)

Net income per pound by receipt of government payments, by firm type, 1988

				Net income	per pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25]
type	exceeded	to	to	to	to	to	to	or	Total
	income	0.09	0.24	0.49	0.74	0.99	1.24	more	
	Ţ			Num	ber				
Received									
Full-time	23	8	23	29	17	8	4	6	118
Part-time	23	9	12	41	12	12	2	7	118
Hobby	10	3	2	7	2	4	1	1	30
All	56	20	37	77	31	24	7	14	266
Did not recieve									
Full-time	38	11	16	26	8	2	5	0	106
Part-time	39	5	11	23	6	3	0	5	92
Hobby	14	2	2	5	3	0	1	1	28
All	91	18	29	54	17	5	6	6	226

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 266 (Full-time = 118, Part-time = 118, Hobby = 30)

Net income per pound by receipt of government payments, by firm type, 1988

				Net income	per_pound				
Firm	Costs	0.00	0.10	0.25	0.50	0.75	1.00	1.25	
type	exceeded	to	to	to	to	to	to.	or	Total
	income	0.09	0.24	0.49	0.74	0.99	1.24	more	
				Perce	ent				
Received									
Full-time	19	7	19	25	14	7	3	5	100
Part-time	19	8	10	35	10	10	2	6	100
Hobby	33	-10	7	23	7	13	3	3	100
All	21	8	14	29	12	9	3	5	100
Did not recieve									
Full-time	36	10	15	25	8	2	5	0	100
Part-time	42	5	12	25	7	3	0	5	100
Hobby	50	7	7	18	11	0	4	4	100
All	40	8	13	24	8	2	3	3	100

Sample Size = 492 (Full-time = 224, Part-time = 210, Hobby = 58)

Received = 266 (Full-time = 118, Part-time = 118, Hobby = 30)

PRODUCERS - CORRELATION STATISTICS

Correlation matrix for selected structural characteristics, all firms, 1985-88 average

		Honey	Miles	Operator	Operator	Gross	Labor	Gross	Pollination	Government
Characteristic	Colonies	production	transported	age	education	expenses	expenses	receipts	receipts	payments
		per colony	per colony							
				C	orrelation coe	fficient			_	
Colonies	1.0000									
Honey production/colony	0.0831	1.0000								
Miles transported/colony	0.0164	0.1790	1.0000							
Operator age	0.0409	-0.0862	-0.0005	1.0000						
Operator education	0.0317	0.0767	-0.0582	-0.3093	1.0000					
Gross expenses	0.7786	0.2594	0.0675	-0.0129	0.0361	1.0000				
Labor expenses	0.7956	0.2016	0.0194	0.0284	0.0337	0.9571	1.0000			
Gross receipts	0.7800	0.3250	0.0855	-0.0004	0.0209	0.8789	0.8519	1.0000		
Pollination receipts	0.3148	-0.0547	0.0636	0.0094	0.0424	0.2653	0.2110	0.3493	1.0000	
Government payments	0.7176	0.1915	0.0231	-0.0169	0.0400	0.7670	0.8435	0.7762	0.1899	1.0000

Correlation matrix for selected structural characteristics, full-time firms, 1985-88 average

		Honey	Miles	Operator	Operator	Gross	Labor	Gross	Pollination	Governmer
Characteristic	Colonies	production	transported	age	education	expenses	expenses	receipts	receipts	payments
		per colony	per colony							
				C	orrelation coe	fficient				
Colonies	1.0000									
Honey production/colony	0.0478	1.0000								
Miles transported/colony	-0.0577	0.2067	1.0000							
Operator age	0.1031	-0.0319	0.0621	1.0000						
Operator education	0.0489	0.0344	-0.0557	-0.2708	1.0000					
Gross expenses	0.7490	0.2827	0.0353	0.0127	0.0523	1.0000				
Labor expenses	0.7830	0.2185	-0.0180	0.0648	0.0476	0.9565	1.0000			
Gross receipts	0.7475	0.3652	0.0551	0.0299	0.0253	0.8647	0.8412	1.0000		
Pollination receipts	0.2393	-0.1019	0.0390	0.0380	0.0513	0.1999	0.1547	0.2894	1.0000	
Government payments	0.7110	0.2087	-0.0044	-0.0047	0.0569	0.7583	0.8369	0.7687	0.1464	1.0000
puymona		3.2007		3.34.7						2,000

Correlation matrix for selected structural characteristics, part-time, 1985-88 average

	-	Honey	Miles	Operator	Operator	Gross	Labor	Gross	Pollination	Governmen
Characteristic	Colonies	production	transported	age	education	expenses	expenses	receipts	receipts	payments
·		per colony	per colony							
	•			C	orrelation coe	fficient	_	_		_
Colonies	1.0000									
Honey production/colony	0.0969	1.0000								
Miles transported/colony	0.0264	0.0957	1.0000							
Operator age	-0.0273	-0.1401	-0.0232	1.0000						
Operator education	0.0390	0.0768	-0.0650	-0.3153	1.0000					
Gross expenses	0.4085	0.2516	0.0266	-0.0996	0.0509	1.0000				
Labor expenses	0.1579	0.1219	-0.0768	-0.0366	0.1193	0.5587	1.0000			
Gross receipts	0.4936	0.4021	0.1307	-0.0365	0.1488	0.6396	0.5075	1.0000		
Pollination receipts	0.1853	-0.1111	0.0889	-0.0513	0.1990	0.3125	0.6498	0.4436	1.0000	
Government payments	0.3195	0.2657	-0.0081	-0.1767	0.0778	0.1017	0.0979	0.2777	0.1675	1.0000
					_					

Correlation matrix for selected structural characteristics, hobby firms, 1985-88 average

		Honey	Miles	Operator	Operator	Gross	Labor	Gross	Pollination	Governmen
Characteristic	Colonies	production	transported	age	education	expenses	expenses	receipts	receipts	payments
		per colony	per colony							
				C	orrelation coe	fficient				
Colonies	1.0000									
Honey production/colony	0.0465	1.0000								
Miles transported/colony	0.2089	0.2453	1.0000							
Operator age	0.0118	-0.1959	-0.0991	1.0000						
Operator education	-0.0235	0.3943	-0.1114	-0.4444	1.0000					
Gross expenses	0.2852	0.0725	0.0821	0.0327	-0.0246	1.0000				
Labor expenses	-0.0149	0.0403	0.0650	-0.1463	0.0621	0.1197	1.0000			
Gross receipts	0.4025	0.5731	0.2201	-0.0535	0.2372	0.3707	0.0091	1.0000		
Pollination receipts	-0.2209	-0.1669	-0.0436	-0.2270	-0.0771	-0.0904	-0.0301	-0.1323	1.0000	
Government payments	0.2694	0.1293	-0.0337	-0.0047	0.1708	-0.0069	-0.0301	0.1445	-0.0227	1.0000

PACKERS

PACKERS - GENERAL CHARACTERISTICS

Packers, by type firm

Tuoners, of type 12.		Type firm		
	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numl	per	
Total	23	59	30	112

Packers, by sex and type firm

		Type firm		
Sex	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numt	per	
Female	1	5	4	10
Male	20	51	25	96
Total	21	56	29	106

Packers, by age and type firm

Tuckers, by ago and		Type firm		
Age	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numl	per	
Less than 35	2	3	1	6
35-44	7	19	5	31
45-54	8	12	12	32
55-64	3	13	8	24
65 years or more	1	6	3	10
Total	21	53	29	103

Sample Size = 103

125

Packers, by occupation and type firm

		Type firm		
Profession	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numb	er	
Clerical	0	0	1	1
Professional	1	8	3	12
Managerial	5	2	0	7
Technician	0	3	4	7
Labor	0	1	6	7
Own Business	12	6	5	23
Sales	0	1	1	2
Beekeeping	1	32	1	34
Farmer	0	0	1	1
Retired	0	2	4	6
Other	2	2	3	7
Total	21	57	29	107

Packers, by education and type firm

		Type firm		
Education	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
_		Numt	er	
1 to 8 years	0	3	1	4
9 to 11 years	0	2	2	4
12 years	7	17	9	33
13 to 15 years	6	14	6	26
16 years or more	8	21	11	40
Total	21	57	29	107

Sample Size = 107

127

Packers, by residence and type firm

		Type firm		
Residence	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numt	er	-
Farm	1	20	13	34
Rural	4	14	6	24
Community				
Less than 2,500	2	9	4	15
2,500-24,999	5	7	4	16
25,000-49,999	0	4	0	4
50,000-99,000	5	0	1	6
100,000 or more	4	2	1	7
Total	21	56	29	106

Packers, by average size of household and type firm

Į.		Type firm						
Age of	Full ti	me	Part t	ime	Part ti	me	Total	l
household			Other ti	me on	Other tim	e on		
members	_		beekee	ping	non-beekeeping		<u> </u>	
	Number	Number	Number	Number	Number	Number	Number	Number
	reporting	reported	reporting	reported	reporting	reported	reporting	reported
·				Numb	per			_
Under 6 years old	4	8	10	14	3	4	17	26
5 to 12 years old	4	7	11	18	4	9	19	34
13 to 18 years old	5	6	11	17	5	6	21	29
19 or older	19	42	51	108	27	59	97	209
l'otal	19	63	51	157	28	78	98	298

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Packers, by region and type firm

	Type firm				
Residence	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total	
	Number				
Northeast	3	4	4	11	
Southeast	5	11	5	21	
Midwest	7	26	15	48	
West	6	12	0	18	
Northwest	1	6	6	13	
Total	22	59	30	111	

Sample Size = 111

NE: CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT

SE: AL, AR, GA, FL, LA, MO, MS, NC, SC, TN, VA, WV

MW: IA, IL, IN, KS, KY, MI, MN, OH, WI, OK, TX

W: AZ, HI, CO, CA, NM, NV, UT, WY NW: AK, ID, MT, ND, NE, OR, SD, WA

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Packers, by state ar	nd type firm	Type firm		
Residence	Full time	Part time	Part time	Total
		Other time on	Other time on	
		beekeeping	non-beekeeping	
		Numb	er	
AK				0
AL	1	2		3
AR	1			1
AZ	1	3		4
CA	3 2	3 2		6
CO	2	2		4
CT	ļ			0
DE				0
FL:	1 1	1		2
GA	1	1	1	3
Щ				0
IA		5	3	8
ID	1	2	1	3
几	1	1	1	3
IN		1	1	2
KS	1			1
KY		1		1
LĄ				0
MA				0
MD				0
ME		1		1
MI		2	3	5
MN	1	7	2	10
МО	1	1	2	4
MS		1		1
MT		1		1
NC		1		1

Packers, by state and type firm (continued)

		Type firm_		
Residence	Full time	Part time	Part time	Total
		Other time on	Other time on	
		beekeeping	non-beekeeping	
		Numt	per	
ND				0
NE			1	1
NH	1			1
NJ			1	1
NM		2		2
NV				0
NY		2		2
OH	1	2	1	4
OK				0
OR		2	2	4
PA	1		2	3
RI				0
SC				0
SD				0
ΓN		1	1	2
ΓX	1	4	1	6
UT				0
VA		2		2
VΤ	1	1	1	3
WA	1	1	2	4
WI	2	3	3	8
WV		1	1	2
WY		2		2
Fotal	22	59	30	111

Packer's subcontracted honey, by fi	inn type, 198	35-88
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	L		Type firm		
	ſ	Full	Part time	Part time	Total
		time	Other time on	Other time on	
			beekeeping	non-beekeeping	
Volume Pa	cked				
(pounds	i)				
Domestic	1985	29,614,230			29,614,230
	1986	33,959,974			33,959,974
	1987	36,485,368			36,485,368
	1988	19,510,566			19,510,566
Foreign	1985	7,715,000			7,715,000
	1986	6,483,000			6,483,000
	1987	450,000			450,000
	1988	450,000			450,000
Average Co	ost				
(\$/poun	d)				
Domestic	1985	0.40			0.40
	1986	0.40			0.40
	1987	0.38			0.38
	1988	0.39			0.39
Foreign	1985	0.44			0.44
	1986	0.44			0.44
	1987	0.40			0.40
	1988	0.40			0.40
Average Re (\$/poun					
Domestic	1985	0.12			0.12
	1986	0.11			0.11
	1987	0.11			0.11
	1988	0.12			0.12
Foreign	1985	0.67			0.67
-	1986	0.67			0.67
	1987	0.67			0.67
	1988	0.67			0.67

1985 Sample Size = 5

1986 Sample Size = 6

1987 Sample Size = 6

	L	Type firm	<u>1 </u>	
		Full time	Part time	Total
Volume Pa	cked			
(pounds)			
Own	1985	94,488	804,936	899,424
	1986	127,430	829,774	957,204
	1987	1,122,965	1,115,206	2,238,171
	1988	133,030	1,372,027	1,505,057
Domestic	1985	18,492,607	164,075	18,656,682
	1986	20,680,625	247,013	20,927,638
	1987	23,426,008	756,463	24,182,471
'	1988	26,190,444	1,055,998	27,246,442
Foreign	1985	5,380,281	41,580	5,421,861
	1986	6,712,684	46,319	6,759,003
	1987	4,710,982		4,710,982
	1988	3,978,465		3,978,465
Average Co	,			
Domestic	1985	0.40	0.51	0.40
	1986	0.44	0.99	0.44
	1987	0.42	0.42	0.42
	1988	0.41	0.41	0.41
Foreign	1985	0.42	0.47	0.42
J	1986	0.43	0.50	0.43
	1987	0.44		0.44
	1988	0.44		0.44
Average Re		•		
(\$/pound Own	1985	2.89	0.88	1.18
Own	1986	1.14		
	1987	0.45	0.88 0.93	0.93
	1988	1.28	0.89	0.61
Domestic	1985	0.61	1.52	0.95
Domestic	1986	0.67	1.36	0.62
	1986	0.67	1.36	0.68 0.69
	1988	0.68		
Foreign	1985	1.05	0.99	0.68
ocign	1986	0.95	1.68 1.39	1.06
	1987	1.01	1.39	0.96
	1988	1.01		1.01
	1200	1.21		1.21

1985 Sample Size = 61 1986 Sample Size = 65

1987 Sample Size = 74 1988 Sample Size = 77

Markets used to dispose of packed honey, 1985-88 average

		Type firm		
Market	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
_		Perce	nt	
Roadside	0.1	3.5	7.7	0.2
Retail stores	36.7	44.8	63.4	37.0
Institutions	8.4	2.7	0.7	8.1
Broker or dealer	0.2	6.5	15.1	0.5
Direct export	0.0	0.4	0.0	0.0
Industrial user	52.6	32.9	0.7	51.8
Other	1.3	4.9	11.5	1.4
Storage	0.8	4.3	1.0	0.9
Total	100.0	100.0	100.0	100.0
				_

Packers' advertising and promotional activities of honey, 1988

		Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numt	per	
Newspapers	0	12	4	16
Circulars	4	5	2	11
Beekeeping journal	0	0	0	0
Magazines	3	3	0	6
Bulletin boards	0	2	1	3
Direct mail	3	7	0	10
Road signs	1	13	7	21
Word of mouth	8	43	17	68
Other	9	15	4	28
Didn't advertise	4	6	5	15
ı <u></u>				

Sample Size = 112

Packers' advertising and promotional activities of honey, 1988

	_	Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
-		Perce	 nt	
Newspapers	0.0	20.3	13.3	14.3
Circulars	17.4	8.5	6.7	9.8
Beekeeping journals	0.0	0.0	0.0	0.0
Magazines	13.0	5.1	0.0	5.4
Bulletin boards	0.0	3.4	3.3	2.7
Direct mail	13.0	11.9	0.0	8.9
Road signs	4.3	22.0	23.3	18.8
Word of mouth	34.8	72.9	56.7	60.7
Other	39.1	25.4	13.3	25.0
Didn't advertise	17.4	10.2	16.7	13.4
<u></u>				

Packers' advertising and promotional activities of honey with other products, 1988

		Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numt	er	
Newspapers	4	3	0	7
Circulars	1	2	1	4
Beckeeping journal	1	0	0	1
Magazines	4	1	0	5
Bulletin boards	0	0	0	0
Direct mail	2	3	0	5
Road signs	1	2	0	3
Word of mouth	5	7	4	16
Other	2	4	1	7
Didn't advertise	13	43	20	76

Sample Size = 112

Packers' advertising and promotional activities of honey with other products, 1988

		Type firm		_
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
	<u> </u>	Perce	nt	<u> </u>
Newspapers	17.4	5.1	0.0	6.3
Circulars	4.3	3.4	3.3	3.6
Beekeeping journal	4.3	0.0	0.0	0.9
Magazines	17.4	1.7	0.0	4.5
Bulletin boards	0.0	0.0	0.0	0.0
Direct mail	8.7	5.1	0.0	4.5
Road signs	4.3	3.4	0.0	2.7
Word of mouth	21.7	11.9	13.3	14.3
Other	8.7	6.8	3.3	6.3
Didn't advertise	56.5	72.9	66.7	67.9
_				

Packers' advertising and promotional activities of packing services, 1988

		Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Numt	er	
Newspapers	0	0	0	0
Circulars	0	0 -	0	0
Beekeeping journal	0	0	0	0
Magazines	0	0	0	0
Bulletin boards	0	0	0	0
Direct mail	0	0	0	0 .
Road signs	0	0	0	0
Word of mouth	3	3	3	9
Other	0	1	1	2
Didn't advertise	18	49	21	88

Sample Size = 112

Packers' advertising and promotional activities of packing services, 1988

		Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
		Perce	lL nt	
Newspapers	0.0	0.0	0.0	0.0
Circulars	0.0	0.0	0.0	0.0
Beckeeping journal	0.0	0.0	0.0	0.0
Magazines	0.0	0.0	0.0	0.0
Bulletin boards	0.0	0.0	0.0	0.0
Direct mail	0.0	0.0	0.0	0.0
Road signs	0.0	0.0	0.0	0.0
Word of mouth	13.0	5.1	10.0	8.0
Other	0.0	1.7	3.3	1.8
Didn't advertise	78.3	83.1	70.0	78.6

Packers' advertising and promotional activities of other products and services, 1988

Full time	Part time	Part time	Total
	Other time on beekeeping	Other time on non-beekeeping	ISIGI
	Numb	er ———	
1	2	0	3
1	1	1	3
0	1	1	2
1	0	0	1
0	1	0	1
1	3	0	4
0	1	0	1
5	10	3	18
1	4	1	6
16	42	21	79
	1 1 0 1 0 1 0 5	Numb 1 2 1 1 0 1 1 0 0 1 1 3 0 1 5 10 1 4	Number Number

Sample Size = 112

Packers' advertising and promotional activities of other products and services, 1988

		Type firm		
Advertisement	Full time	Part time Other time on beekeeping	Part time Other time on non-beekeeping	Total
 		Perce	nt	
Newspapers	4.3	3.4	0.0	2.7
Circulars	4.3	1.7	3.3	2.7
Beekeeping journal	0.0	1.7	3.3	1.8
Magazines	4.3	0.0	0.0	0.9
Bulletin boards	0.0	1.7	0.0	0.9
Direct mail	4.3	5.1	0.0	3.6
Road signs	0.0	1.7	0.0	0.9
Word of mouth	21.7	16.9	10.0	16.1
Other	4.3	6.8	3.3	5.4
Didn't advertise	69.6	71.2	70.0	70.5

PACKERS - FINANCIAL

Packers' household gross income, by firm type - 198

	_				Н	ousehold gross inc	ome				
Firm type	\$9,999 or	\$1,000 to	\$20,000 to	\$40,000 to	\$70,000 to	\$100,000 to	\$150,000 to	\$200,000 to	\$500,000 to	Over	Total
	less	\$19,999	\$39,999	\$69,999	_\$99,999	\$149,999	\$199,999	\$499,999	\$1,000,000	\$1,000,000	
					Number						
Full time	1	2	4	6	3	3	0	1	0	0	20
Part time	9	8	21	7	4	2	7	7	0	0	65
Other time on beekeeping											
Part time	0	5	10	5	2	1	0	1	0	0	24
Other time on non-beekeeping											
l'Otal	10	15	35	18	9	6	7	9	0	0	109

Packers' gross income, by firm type - 1988	e, by firm type - 1.	886											
						Огова іпсоще							
Pirm type	\$2,499	\$2,500	000'5\$	\$10,000	000'02\$	\$40,000	\$20,000	\$100,000	\$150,000	000'007\$	000'005\$	\$1,000,000	
	8	9	8	2	٩	٩	8	2	e	8	8	8	Total
	Story	\$4,999	\$9,999	\$19,999	\$39,999	\$49,999	\$66,66\$	\$149,999	\$199,999	\$499,999	\$999,999	Bore	
	l				Number								
Pull time	•	0	•	-	-	0	-	-	-	7	+	••	61
Part time	•	'n	•	٥	11	9	\$	*	7	•	7	٥	z
Other time on													
beckeeping													
Part time	9	7	•	•	6	•	7	0	0	•	0	-	z.
non-beekseping													
Total	±	12	•	92	\$1	E	•	\$	m	•	•	•	8

Sample Size = 100

Packers' net income, by firm type - 1983

					Net income					
Firm type	Costs	Broke	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$50,000	\$100,000	
	exceeded	even	Or	to	to	to	to	to	or	Total
	income		less	\$4,999	\$9,999	\$19,999	\$49,999	\$99,999	more	
					Number		<u> </u>		-	
Full time	3	0	0	0	5	3	4	1	2	18
Part time	10	1	9	7	11	11	3	3	0	55
Other time on										
beekeeping										
Part time	5	3	11	1	2	2	0	0	1	25
Other time on										
non-beekeeping										
				_						
otal	18	4	20	8	18	16	7	4	3	98

Packets' total value of assets, by firm type - 1988

to	\$2,000,000 or more	Total
		Total
11,999,999	more	
_		
0	2	19
0	1	55
0	1	26
0	4	100
	0	0 4

Packers' notal debt, by firm type - 1988	by firm type - 1980.															
								Total debt								
Han type	ž	\$2,499	\$2,500	000'53	000'018	\$20,000	\$40,000	\$30,000	\$100,000	3130,000	\$200,000	\$500,000	000'000'1\$	000'005'18	\$2,000,000	
	Ą		8	3	3	2	9	8	a	3	2	3	8	8	B	70
		ļ	24,999	666'88	\$19,999	666'66\$	\$49,999	\$66,998	\$149,999	\$199,999	\$499,999	\$66,666	\$1,499,999	\$1,999,999	5	
					Number											
1 2	~	•	•	84	-	•	•	8	-	n	7	-	-	-	•	61
Pri ibe	n	•	1	8	•	₩.	e	•	•	•		•	0	•	•	25
Other these on																
Per the	=	•	-	•	-		•	-	-	•	•	•	•	•	•	æ
Other time on non-best copies																
T-	â	1	•	•	•	۰	m	•	2	m		-		•	•	8
Semple Star = 103] 			 	}

		Firm type		
Cost item	Full time	Part time	Part time	Total
		other time on	other time on	
		beckeeping	non-beckeeping	
				_
		Dollars/pound		
Labor				
Hired labor	0.024	0.1 69	0.163	0.032
Benefits	0.007	0.021	0.000	0.008
Other	0.022	0.070	0.001	0.024
Bees				
Bee food	0.000	0.021	0.048	0.001
Queens and nucs	0.000	0.014	0.033	0.001
Package bees	0.000	0.037	0.076	0.002
Supplies				
General	0.000	0.040	0.151	0.003
Containers etc.	0.052	0.182	0.238	0.059
Equipment				
Repair and Maint	0.003	0.029	0.037	0.004
Gas and oil	0.004	0.042	0.083	0.006
Buildings				
Repair and Maint	0.003	0.016	0.012	0.004
Mortgage	0.003	0.077	0.089	0.007
Overhead				
Utilities	0.005	0.029	0.050	0.006
Insurance	0.006	0.030	0.028	0.007
Taxes	0.002	0.031	0.037	0.004
Rent	0.004	0.023	0.016	0.005
Interest on OC	0.008	0.007	0.018	0.008
Office expenses	0.003	0.008	0.002	0.003
Marketing				
Advertising	0.003	0.009	0.011	0.003
Subscriptions	0.000	0.001	0.002	0.000
Promotion	0.003	0.002	0.006	0.003
Fees	0.009	0.003	0.000	0.009
Other	0.029	0.023	0.013	0.028
	0.02/	0.023	0.013	0.020
Total	0.190	0.884	1.115	0.227

IMPORTERS AND BROKERS

IMPORTERS AND BROKERS - GENERAL CHARACTERISTICS

Importers and brokers, by type firm

				Type firm			
	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
Total	8	4	2	Number 3	0	0	17

Importers and brokers, by sex and type firm

				Type firm			
Sex	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number			
Female	1	1	0	0	0	0	2
Male	6	3	2	3	0	0	14
Total	7	4	2	3	0	0	16

Importers and brokers, by age and type firm

				Type firm			
Age	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
			<u>'</u>	Number	•		
Less than 35	2	0	0	0	0	0	2
35-44	2	0	1	1	0	0	4
45-54	2	1	1	1	0	0	5
55-64	1	2	0	1	0	0	4
65 years or more	0	1	0	0	0	0	1
Total	4	0	1	1	0	0	16

Sample Size = 16

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Importers and brokers, by occupation and type firm

		_		Type firm			
Age	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number		<u> </u>	
Clerical	0	0	0	1	0	0	1
Professional	0	0	0	0	0	0	0
Managerial	3	0	1	0	0	0	4
Technician	0	0	0	0	0	0	0
Labor	0	0	0	0	0	0	0
Own Business	2	3	1	0	0	0	6
Sales	0	1	0	2	0	0	3
Beekeeping	0	0	0	0	0	0	0
Farmer	0	0	0	0	0	0	0
Retired	1	0	0	0	0	0	1
Other	1	0	0	0	0	0	1
Total	7	4	2	3	0	0	16

Importers and brokers, by education and type firm

				Type firm			
Education	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number		-t	
1 to 8 years	0	0	0	0	0	0	0
9 to 11 years	0	0	0	0	0	0	0
12 years	1	1	0	1	0	0	3
13 to 15 years	1	0	1	0	0	0	2
16 years or more	5	3	1	2	0	0	11
Total	7	4	2	3	0	0	16

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Importers and brokers, by residence and type firm

			_	Type firm			
Residence	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number	<u> </u>	<u> </u>	
Farm	0	0	0	0	0	0	0
Rural	0	1	0	0	0	0	1
Community							0
Less than 2,500	0	1	0	0	0	0	1
2,500-24,999	2	0	2	0	0	0	4
25,000-49,999	0	0	0	0	0	0	0
50,000-99,000	3	0	0	0	0	0	3
100,000 or more	2	2	0	2	0	0	6
Total	7	4	2	2	0	0	15

Importers and brokers, by average size of household and type firm

				Type f	irm					
Age of	Full tir	ne	Full t	ime	Full tim	ie	Part tirr	ne	Total	
household	Importe	ar .	Brok	car .	Importer	and	Importe	त्र		
members			•		Broke	т				
	Number	Number								
	reporting	reported								
					Numb	er _				
Uncer 6 years old	0	0	0	0	1	2	1	2	2	4
6 to 12 years old	0	0	0	0	1	2	1	1	2	3
13 to 18 years old	2	3	1	2	0	0	1	1	4	6
19 or older	6	14	4	8	2	4	2	4	14	30
Total	6	17	4	10	2	8	2	8	14	43

Importers and brokers, by region and type firm

· ·				Type firm		_	
Region	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
-			·	Number			
Northeast	5	0	1	0	0.	0	6
Southeast	0	1	0	1	0	0	2
Midwest	0	1	0	1	0	0	2
West	3	0	0	0	0	0	3
Northwest	0	2	1	0	0	0	3
Total	8	4	2	2	0	0	16

Sample Size = 16

NE:

CT, DE, MA, MD, ME, NH, NJ, NY, PA, RI, VT

SE:

AL, AR, GA, FL, LA, MO, MS, NC, SC, TN, VA, WV

MW:

IA, IL, IN, KS, KY, MI, MN, OH, WI, OK, TX

W: NW: AZ, HI, CO, CA, NM, NV, UT, WY AK, ID, MT, ND, NE, OR, SD, WA

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Importers and brokers, by state and type firm

				Type firm			
State	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number			
K							0
L							0
R]						0
Z	Ì						0
A	3						3
О							0
T			1				1
E							0
L	ł			1			1
A							0
1							0
A							0
)		1					1
							0
1							0
S							0
Y							0
A							0
IA							0
ID							0
TE .							0
П							0
IN .							0
O							0
IS							0
TT	1	1					1
iC		_					0

Importers and brokers, by state and type firm (continued)

•	Type firm								
State	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total		
				Number					
ID .							0		
Œ	1						0		
IH							0		
IJ	4						4		
ΙM							0		
IV							0		
ľΥ	1						1		
H		1					1		
K							0		
)R							0		
Ά							0		
Ľ							0		
C							0		
D							0		
'N							0		
X				1			1		
T							0		
'A		1					1		
T							0		
VA	1		1				1		
VI							0		
VV							0		
VY							0		
'otal	8	4	2	2	0	0	16		

Importers and brokers negotiated products, by firm type

		_		Type firm			
Products	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
			<u> </u>	Number	<u> </u>	<u> </u>	
Honey	7	3	2	3	0	0	15
Other sweeteners	3	0	1	1	0	0	5
Other Ag products	6	2	0	1	0	0	9
Non-ag products	4	2	0	1	0	0	7

Importers' and brokers' negotiated honey, by firm type, 1985-88**

					Type firm			
		Full time	Full time	Full time	Part time	Part time	Part time	Total
		Importer	Broker	Importer and	Importer	Broker	Importer and	
				Broker			Broker	
VolumeNe (pounds								
Domestic								
	1986							
	1987							
	1988							
Foreign	1985							3,375
	1986							253,056
	1987							283,494
	1988							234,520
Average C	ost							
(\$/рочп								
Domestic								
	1986							
	1987							
	1988							
Foreign	1985							1.33
	1986							0.39
	1987							0.62
	1988							0.52
Average R	evenue							
(\$/poun								
Domestic	1985							
	1986							
	1987							
	1988							
Foreign	1985							1.33
J	1986							0.45
	1987							0.44
	1988							0.62
	1988							0.62

^{**}Detailed Data not reported due to small sample size.

¹⁹⁸⁵ Sample Size = 2

IMPORTERS AND BROKERS - MARKETING

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در

				Type firm			Total
Market	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	
		<u> </u>		Percent	<u> </u>		
Roadside	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Retail stores	100.0	0.0	3.0	0.8	0.0	0.0	3.0
Institutions	0.0	0.0	10.2	0.0	0.0	0.0	10.0
Packers							
Independent	0.0	0.0	83.4	99.2	0.0	0.0	82.4
Cooperative	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Direct export	0.0	0.0	1.2	0.0	0.0	0.0	1.2
Industrial user	0.0	100.0	2.2	0.0	0.0	0.0	3.4
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	100.0	100.0	100.0	100.0	0.0	0.0	100.0

Importers' and brokers' advertising and promotional activities of honey, 1988

				Type firm			
Advertisement	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
			<u> </u>	Number		<u> </u>	
Newspapers	2	0	1	0	0	0	3
Circulars	3	0	1	0	0	0	4
Beekeeping journals	0	0	0	1	0	0	1
Magazines	1	0	1	0	0	0	2
Bulletin boards	0	0	0	0	0	0	0
Direct mail	1	1	0	0	0	0	2
Road signs	0	0	0	0	0	0	0
Word of mouth	3	0	0	0	0	0	3
Other	1	0	0	0	0	0	1
Didn't advertise	3	0	1	2	0	0	6

Sample Size = 17

Importers' and Brokers' advertising and promotional activities of honey, 1988

				Type firm			
Advertisement	Full time	Full time	Full time	Part time	Part time	Part time	Total
	Importer	Broker	Importer and	Importer	Broker	Importer and	
			Broker_			Broker	
_				Percent			-
Newspapers	25.0	0.0	50.0	0.0	0.0	0.0	17.6
Circulars	37.5	0.0	50.0	0.0	0.0	0.0	23.5
Beekeeping journals	0.0	0.0	0.0	33.3	0.0	0.0	5.9
Magazines	12.5	0.0	50.0	0.0	0.0	0.0	11.8
Bulletin boards	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Direct mail	12.5	25.0	0.0	0.0	0.0	0.0	11.8
Road signs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Word of mouth	37.5	0.0	0.0	0.0	0.0	0.0	17.6
Other	12.5	0.0	0.0	0.0	0.0	0.0	5.9
Didn't advertise	37.5	0.0	50.0	66.7	0.0	0.0	35.3

Importers' and brokers' advertising and promotional activities of honey with other nutritive sweeteners, 1988

				Type firm			
Advertisement	Full time	Full time	Full time	Part time	Part time	Part time	Total
	Importer	Broker	Importer and	Importer	Broker	Importer and	
			Broker			Broker	
		_	<u> </u>	Number			
Newspapers	1	0	0	0	0	0	1
Circulars	0	0	0	0	0	0	0
Beekeeping journals	0	0	0	0	0	0	0
Magazines	1	0	0	0	0	0	1
Bulletin boards	0	0	0	0	0	0	0
Direct mail	0	0	0	0	0	0	0
Road signs	0	0	0	0	0	0	0
Word of mouth	1	0	0	0	0	0	1
Other	0	0	0	0	0	0	0
Didn't advertise	7	4	2	3	0	0	16

Sample Size = 17

Importers' and brokers' advertising and promotional activities of honey with other nutritive sweeteners, 1988

	Type firm							
Advertisement	Full time	Full time	Full time	Part time	Part time	Part time	Total	
	Importer	Broker	Importer and	Importer	Broker	Importer and		
			Broker			Broker		
				Percent				
Newspapers	12.5	0.0	0.0	0.0	0.0	0.0	5.9	
Circulars	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Beekeeping journals	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Magazines	12.5	0.0	0.0	0.0	0.0	0.0	5.9	
Bulletin boards	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Direct mail	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Road signs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Word of mouth	12.5	0.0	0.0	0.0	0.0	0.0	5.9	
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Didn't advertise	87.5	100.0	100.0	100.0	0.0	0.0	94.1	

Importers' and brokers' advertising and promotional activities of brokerage and importer services, 1988

				Type firm			╛
Advertisement	Full time	Full time Broker	Full time	Part time	Part time	Part time	Total
	Importer	Diokei	Importer and Broker	Importer	Broker	Importer and Broker	
				Number			
Newspapers	0	0	0	0	0	0	0
Circulars	0	0	0 .	0	0	0	0
Beekeeping journals	0	0	0	0	0	0	0
Magazines	0	0	0	0	0	0	0
Bulletin boards	0	0	0	0	0	0	0
Direct mail	0	0	0	0	0	0	0
Road signs	0	0	0	0	0	0	0
Word of mouth	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
Didn't advertise	8	4	2	3	0	0	17

Sample Size = 17

Importers' and brokers' advertising and promotional activities of brokerage and importer services, 1988

				Type firm			
Advertisement	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
			_	Percent			-
Newspapers	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Circulars	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beekeeping journals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Magazines	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bulletin boards	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Direct mail	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Road signs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Word of mouth	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Didn't advertise	100.0	100.0	100.0	100.0	0.0	0.0	100.0

Importers' and brokers' advertising and promotional activities of other products and services, 1988

				Type firm			
Advertisement	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
				Number			
Newspapers	1	0	0	0	0	0	1
Circulars	1	0	0	0	0	0	1
Beekeeping journals	0	0	0	0	0	0	0
Magazines	2	0	0	1	0	0	3
Bulletin boards	0	0	0	0	0	0	0
Direct mail	1	0	0	0	0	0	1
Road signs	0	0	0	0	0	0	0
Word of mouth	2	0	0	0	0	0	2
Other	1	0	0	0	0	0	1
Didn't advertise	5	4	2	2	0	0	13

Sample Size = 17

Importers' and brokers' advertising and promotional activities of other products and services, 1988

				Type firm			
Advertisement	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
		_		Percent			
Newspapers	12.5	0.0	0.0	0.0	0.0	0.0	5.9
Circulars	12.5	0.0	0.0	0.0	0.0	0.0	5.9
Beekeeping journals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Magazines	25.0	0.0	0.0	33.3	0.0	0.0	17.6
Bulletin boards	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Direct mail	12.5	0.0	0.0	0.0	0.0	0.0	5.9
Road signs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Word of mouth	25.0	0.0	0.0	0.0	0.0	0.0	11.8
Other	12.5	0.0	0.0	0.0	0.0	0.0	5.9
Didn't advertise	62.5	100.0	100.0	66.7	0.0	0.0	76.5

IMPORTERS AND BROKERS - FINANCIAL

Importers' and brokers' household gross income, by firm type - 1988**

Importers and broke	as nomenote the	ss income, by firm	type - 1988**								
					Ho	usehold gross inco	ome				
Firm type	\$9,999	\$1,000	\$20,000	\$40,000	\$70,000	\$100,000	\$150,000	\$200,000	\$500,000		
	OF	to	to	to	to	to	to	to	to	Over	Total
	less	\$19,999	\$39,999	\$69,999	\$99,999	\$149,999	\$199,999	\$499,999	\$1,000,000	\$1,000,000	
			<u> </u>		Number				_		
Full time importer											7
Pull time broker											4
Full time importer											2
and broker											
Part time importer											2
Part time broker											0
Part time importer											0
and broker											
Total	0	0	2	2	4	4	1	1	0	1	15

^{**}Detailed Data not reported due to small sample size.

Importers' and brokens' gross income, by firm type - 1988***	ens' grown income, by	v firm type - 1988*	1										
						Gross income							
Firm type	\$2,499	\$2,500	000'5\$	\$10,000	000'02\$	\$40,000	000'05\$	000'001\$	000'051\$	000'002\$	000'005\$	\$1,000,000	
	8	2	2	9	2	2	9	2	2	2	2	6	Total
	30	\$4,999	99,999	\$19,999	\$39,999	\$49,999	\$99,999	\$149,999	\$199,999	\$499,999	666'666\$	BOB	
					Number								
Full time importer													,
Pull time broker													-
Pull time importer													7
and broker													
Part time importer													7
Part time broker													
Part time importer													•
and broker													
Total	•	۰	0	-	0	0	0	0	0	-	7	90	12
** Detailed Date not reported the to small sample size.	amp of the partners	ill sample size.											

* Detailed Data not reported due to small sample si

Importers' and brokers' net income, by firm type - 1988**

	-				Net income					
Firm type	Costs	Broke	\$2,499	\$2,500	\$5,000	\$10,000	\$20,000	\$50,000	\$100,000	1
	exceeded	even	or	to	to	to	to	to	or	Total
	income		less	\$4,999	\$9,999	\$19,999	\$49,999	\$99,999	more	
					Number		<u> </u>			
ull time importer										6
ull time broker										1
ull time importer										2
and broker										
art time importer										2
art time broker										0
Part time importer										0
and broker										
	_	_	_	_		_		_	_	
Total	2	0	0	0	0	0	2	1	6	11

^{**}Detailed Data not reported due to small sample size.

Sample Size = 11

Hum type \$2,499 \$2,500 \$10,000 \$10,000 \$20	000'0948 000'0753 01 01 000'694 000'6513	<u> </u>	\$100,000	\$150,000	\$200,000	\$500,000	\$1,000,000	\$1,500,000	\$2,000,000	
10.000 10	-	-	_							
kes \$1,999 \$5,999 \$10,999	4	_		9	2	9	9	9	8	Total
		666'666	\$149,999	\$199,999	\$499,999	\$999,999	\$1,499,999	\$1,999,999	Front	
ma importur ma terdurir ma terdurir ma importur	Number									
me bereker										•
an importer										-
										7
and broker										
Part three importer										7
Pear time broker										•
Pant time importer										•
and brait or										
-	•	-	•	7	•	-	•	•	10	=

								Total debt								
Plen type	ž	\$2,499	\$2,500	000'53	\$10,000	000'00\$	000'0148	\$50,000	\$100,000	\$150,000	\$200,080	\$500,000	\$1,000,000	\$1,500,000	\$2,000,000	
_	ŧ	¥	و	٩	3	3	3		9	2	3	3	2		5	7
		į	***	\$9,999	\$19,999	666'60\$	\$49,999	\$99,999	\$149,999	\$199,999	666, 669	\$999,999	\$1,499,999	\$1,999,999	i	
					Nember											
Pall thes importer																•
Pall time broker																-
Pall time importer																. ~
and broken																
Part time importer																7
Past time broken																•
Part thes importer																•
and broker																
Joseph	-	•	-	•	1		•	•	1	•	•	-	•	-	•	2
Collection and managed the to mail manufacture about	The second second	ortho others														

Average gross expenses of importers and brokers, by type firm, 1988**

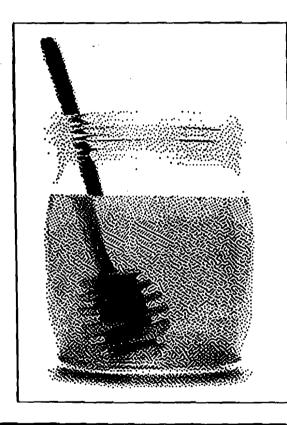
				Type firm			
Cost item	Full time Importer	Full time Broker	Full time Importer and Broker	Part time Importer	Part time Broker	Part time Importer and Broker	Total
		- <u>-</u>	Dionos	Dollars/pound		, , , okoi	
Labor				, 			
Hired labor							0.088
Benefits							0.002
Other							0.093
Bees							
Bee food							
Queens and nucs							
Package bees							
Supplies							
General							
Containers etc.							
Equipment							
Repair and Maint							0.002
Gas and oil							0.002
Buildings							
Repair and Maint							
Mortgage							
Overhead							
Utilities							0.002
Insurance							0.003
Taxes							
Rent							0.005
Interest on OC							
Office expenses							0.011
Marketing							
Advertising							0.006
Subscriptions							
Promotion							0.017
Fees							0.078
Other							
l'otal	0.607	0.000	0.092	0.942			0.308

^{**}Detailed Data not reported due to small sample size.

Sample Size = 4

APPENDIX: NATIONAL SURVEY INSTRUMENT

HONEY INDUSTRY SURVEY



The purpose of this survey is to collect information to identify the needs and current economic status of the honey industry. Information from this study will be provided by the Economic Research Service of the U.S. Department of Agriculture to members of the U.S. Congress to assist them in establishing a pricing policy that reflects the needs of the industry. This information will aid the National Honey Board's development of research, advertising and promotion programs which will best serve the industry.

Conducted by
The Department of Agricultural Economics
New York State College of Agriculture and Life Sciences
Cornell University, Ithaca, New York 14853-7801

Form Approved
O.M.B. No. 0536-0035
Expiration Date 6/30/91

HONEY PRODUCERS, PACKERS, IMPORTERS AND BROKERS SURVEY

INTRODUCTION:

The Cornell Institute for Social and Economic Research (CISER) is collecting information relative to honey production, pollination and the structure of your beekeeping operation. This study of the beekeeping industry is mandated by Congress in the 1987 Appropriations Bill. The information will be used by analysts at Cornell University, the National Honey Board, and the United States Department of Agriculture.

Your response is confidential and will be used only for statistical purposes and economic analysis. Although your participation is voluntary, your cooperation is essential to help us determine the economic health of the beekeeping industry. We encourage you to make the information as accurate as possible. The survey is also supported by the American Beekeeping Federation, the American Honey Producers Association and the National Honey Packers & Dealers Association.

Public reporting burden for this collection of information is estimated to average one hour (60 minutes) per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed and completing and reviewing the collected information. Send comments regarding this burden estimate or any other aspect of collection of information, including suggestions for reducing this burden to:

Department of Agriculture, Clearance Officer

O.I.R.M Room 404-W Washington D.C. 20250

and to the:

Office of Management and Budget

Paperwork Reduction Project (O.M.B. No. 0536-0035)

Washington D.C. 20502

Cover photo courtesy of National Honey Board

ANSWER THIS QUESTION FIRST

I.

How would you classify yourse	If in the honey industry? (Please circle ALL that apply.)
a. PRODUCER b. PACKER c. IMPORTER d. BROKER	►►► If not a producer ALSO, Skip to Section B, page 13

	b. PACKER c. IMPORTER d. BROKER	not a produc	er ALSC), Skip to	Section B	, page 13
	SECTION	A. PRODUC	ŒRS			
FIRM	M CHARACTERISTICS					
1)	Is beekeeping your: (Please ci	rcle ONE res	ponse.)			
		e profession e profession				
2)	What state do you consider the operation?	primary hea	dquarter	s for you	ır beekeepi	ing
3)	Is your actual residence in the		-	•		·
	b. Yes					
4)	Which of the following years (Circle ALL that apply.)	did you NO	T have	a beeke	eping oper	ration?
	a. 1981 d. b. 1982 c. c. 1983 f	1984 1985 1986	g. h.	1987 1988		
5)	We would like to know your of last four years and the number (Please fill in the information the spaces provided. Write "C	r of working for the years	colonies	you had	during the	at time.
	a. Number of colonies on October 1	1985	198	8 6	1987	1988
	b. # of working colonies at peak production					
	c. Month(s) of the year your operation experienced peak production		_			

II. PRODUCTS AND SERVICES

Receipts and Production:

What were your total gross receipts from products sold, services provided and/or program participation from 1985 to 1988?

Please write: NA - If you DID NOT produce or provide specific products or services or participate in programs for that year.

O - If you DID NOT receive any money for specific products, services or programs your operation had for that year.

Products, Services, and Programs		AL GROSS R FOR CALENDAR 1986		<u>1988</u>
Honey (not forfeited to CCC) Pollination Services Beeswax Package Bees Queens and Nucs Royal Jelly, Propolis, Pollen Other Gov't. payments (net receipts) CCC forfeitures Marketing loan benefit* * Difference between loan rate	\$ \$ \$ \$ \$ and repaym	\$ \$ \$ \$ ent rate.	\$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$

2) How much of the following did your beekeeping operation produce or provide from 1985 to 1988?

	(ALENDAR Y	YEAR	
Products/Services	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u> 1988</u>
Honey Beeswax	lbs	lbs	lbs	ibs
Royal jelly, Propolis and Pollen	lbs	1bs	1bs	lbs
Package Bees Nucs	i bs	1bs	! bs	lbs
Queens Sold Separately			#	- "
Pollination Services # of Colonies		*	#	
# of Rentals			#	#

3)	Of the products and s Question 2, which the write down the items operation.)	ree do you cons	sider most imp	ortant to your o	peration? (Please				
	•		Mos	t Important					
			Seco	ond Most Impor	tant				
	-		Thir	d Most Importa	nt				
4)	Did your beekeeping following reasons fro	operation sufform 1985 to 198	er a reduction i 88? (CHECK	in production fo where appropri	or any of the ate.)				
			CALENDAR	YEAR					
	Reason	<u> 1985</u>	<u> 1986</u>	<u>1987</u>	1988				
	Drought								
	Disease		_ :		·				
	Mites								
	Other (Specify)								
									
Hon	ey Marketing:								
5)	During the period of was white, extra light	of 1985 to 198 ht amber, fight	8 what perce amber or amb	nt of the hone er?	y you marketed				
		PERCENT OF TOTAL HONEY MARKETED FOR CALENDAR YEAR							
	Honey Marketed	1985	1986	<u>1987</u>	<u>1988</u>				
	White		%	%	% %				
	Extra Light Amber		%	<u></u>	<u>%</u> %				
	Light Amber		%	_%	.% %				
	Amber		%	%	% %				
			4		·				

6) During the period of 1985 to 1988, which of the following markets did you use to dispose of your honey crop and what was the amount of honey sold in each market? (Each honey crop year's total should agree with the honey production you reported in Question 2.)

Please write NA · if you DID NOT use that specific outlet in a given year.

		POUNDS SOI CALENDAR		
Markets Used	1985	1986	1987	1988
Roadside Market	lbs	lbs	lbs	lbs
Retail Stores	lbs	1bs	lbs	lbs
Enstitutions	lbs	lbs	lbs	lbs
Broker or Dealer	1bs	lbs	lbs	l bs
Packers/Bottlers Independent	lbs	lbs	! bs	lbs
Cooperative	lbs	lbs	Ibs	lbs
Direct Export	1bs	lbs	lbs	lbs
Industrial User or Food Manufacturer	lbs	lbs	lbs	lbs
Forfeited to CCC	Ibs	lbs	lbs	lbs
Other Outlet (Specify)	lbs	lbs	Ibs	lbs
	lbs	lbs	tbs	lbs
Not Sold or In Storage	lbs	lbs	lbs	lbs
TOTAL.	lbs	lhs	1bs	lbs

Government Honey Price Support Program:

7)	Since the 1981 crop support program?	year, have you participated in the government honey price
	a.	No Skip to Question 9, page 6. Yes

5

8) Please fill in the information for honey your operation placed under loan with the government honey price support program from 1981 to 1988.

Please write: NA - if you DID NOT participate in the program that year.

0 - If you participated in the program but DID NOT FORFEIT ANY HONEY to the CCC or receive net receipts.

			Net Receipts from Gov't Payments Marketing
Honey Crop Year	Quantity Placed Under Loan	Quantity Forfeited to CCC	Loan Loan Forfeitures Benefit*
1981	lbs	lbs	\$
1982	lbs	lbs	\$
1983	lbs	lbs	\$
1984	lbs	lbs	\$
1985	1bs	lbs	\$
1986	lbs	lbs	\$ \$
1987	lbs	lbs	\$ \$
1988 * Difference be	lbs tween loan rate and re	lbs	s s

9) For the years that you did not participate in the government honey price support program and had a beekeeping operation:

Which of the following best describes why you did not participate? (Circle ALL that apply.)

- I received a higher price through local markets.
- I did not produce enough honey to use the program.
 I was not familiar with how the program worked. b.
- It took too much time to complete the paper work.

 Cooperative placed honey under loan for me.

 Other (Specify)
- d.

		,

10)	In you progra	r opinion, how was mere eliminated	would your ed? (Pleas	operation be e circle ALL	affecte	ed if the ply.)	federal	honey	suppoi
	,	a. b. c. d. e. If e.:	Would M. Would DI Would EX Would DI	NOT CONTAINTAIN the CREASE the CPAND the CVERSIFY into:	he size of a size of a nto other	of my o of my o my ope er areas	operation operation operation. of beel	n. n. keeping	
		f.	Other chair	nges (Please	specify	.)	 -		
Bee	Colony	Transport:			_	· · · · · · · · · · · · · · · · · · ·			
11)	a.	Did you trans	port any of	your bee col NE letter for	onies to	other	states i	n 1985,	1986,
		1985 a. Yes	11		1987 a. Yes		1988 a. Yes		
		b. No.	I did not t	ransport bee 88 	colonie p to Que	s to oth	ner state l I c, bel	s in 198 ow.	85,
	ъ.	If you transpo main purpos	rted any of e? (Please	your bee col	lonies to	o othei priate)	r states,	what w	as the
		Main Purpo	se for Tr	ansporting	Bees	1985	1986	1987	1988
		a. Provide parts. Seek floral c. Wintering d. Other (Spec	source for	honey prod'i		=		<u>=</u>	
	c.	What is your lead on its colonies in eatransporting a between state	ch year for ctivities to	any reason? and from ho	Total r	nileage	include	s all	
		a. 199 b. 19 c. 199 d. 19	86 87		niles				

National Currow Instrument (continued)

1)	Did your beekeeping operat	n incur losses from pesticides d	uring 1988?
	a. No b. Yes	Skip to Question 6, be	low.
2)	What percent of your colon	s were affected by pesticides in	1988?
		% COLONIES AFFEC	TED
3)	What percent of your affectrom pesticides?	i colonies suffered 50% or mor	e loss of honey bees
		% COLONIES WITH	50% LOSS
4)	Where did most of your los	es occur? (Circle ONE answer.)
	a. Col b. Fiel c. Bot	у	
5)	Are you normally reimbur	d for your honey bee losses from	m pesticides?
	a. No b. Yes		
6)	Does your beekeeping op	ation normally incur winter lo	esses?
	a. No b. Ye	Skip to Section IV, p	age 11.
7)	What percent of your colo	es are affected by winter loss ea	ach year?
		% COLONIES AFFI	ECTED
8)	What percent of your affe bees?	ed colonies suffered 50% or mo	ore winter loss of honey
		% COLONIES WIT	11 EOM 1 OCC

9)	What metho	od do you	use to replace winter losses? (Circle ALL that a	ipply.)
		a. b. c.	Package bees Divisions with purchased queens Divisions with queens raised by the beekeeper natural queen cell	using a
		d.	Divisions with queens raised by the beekeeper grafted queen cell	using a
/. L/	ABOR USE			
1)	What is the	e average tire operat	number of hours per week each of the following ion in 1988? (Please fill in the blanks provided.	g have spent
	,			•
	Please			ing egg i en
		write: 14	A - If you DID NOT USE a specific labor source	during a given time.
		- Wille: W		during a given time.
		Ja		-Dec
	Yourself	Ja	n-Mar Apr-Jun Jul-Sep Oct	-Dec
	-	Ja <u>(hou</u>	n-Mar Apr-Jun Jul-Sep Oct	-Dec
	Yourself Other Farm	Ja <u>(hou</u> ily s	n-Mar Apr-Jun Jul-Sep Oct	-Dec
	Yourself Other Fam Members	Ja <u>(hou</u> ily s	n-Mar Apr-Jun Jul-Sep Oct	-Dec
	Yourself Other Farm Members Hired Labo	Identification of the second o	n-Mar Apr-Jun Jul-Sep Oct	-Dec
2	Yourself Other Farm Members Hired Labo Full Tim Part Tim	Ja <u>(hou</u> illy s or ne	n-Mar Apr-Jun Jul-Sep Oct	Dec /week)
2	Yourself Other Farm Members Hired Labo Full Tim Part Tim	Ja <u>(hou</u> illy s or ne	n-Mar Apr-Jun Jul-Sep Oct- rs/week) (hours/week) (hours e wage rate paid by your operation for each of	Dec /week)

1)	Where did you adve contributions for ad National Honey Bo	vertising an	d promotion d	lone by mark	eting cooperat	ives and the
	National Pioney Bo	Honey	Honey with other Products		Pollination Services	Package Bees and Oucens
	Local Newspapers_					
	Circulars					
	Beckeeping , Journals					
	Magazines .					
	Community Bulletin Boards					
	Direct Mail					
	Road Signs					
	Word of Mouth					
	Other (Please List)					
		<u> </u>				
	Didn't Advertise					
2)	Which of the follow during 1988? (Circ	wing becked the ALL tha	eping promotic	onal activities	s did you parti	cipate in
	a. b. c. d.	Giving (e.g. co Distrib Distrib	uting honey ir uting free sam	ns/Setting up ea markets, g aformation aples	Displays rocery stores,	bazaars etc.)
	e. f. g. h.	Mainta Contrib	ning newspape ining observa- buting to the P (Please Specif	tion hive Vational Hone	ey Board	
			<u> </u>			

SECTION B

If you are:

- *a PRODUCER only Skip to Section D, Page 21
- *a PACKER Continue with Section B, Page 14
- * All Others Skip to Section C, Page 17

13

SECTION B. PACKERS

١. FIRM CHARACTERISTICS

- 1) Are you a: (Please circle ONE response.)
 - Full time Packer
 - b. Part time Packer;

Other time spent on beekeeping activities

C. Part time Packer;

Other time spent on non-beekeeping activities

2) In what state do you have your packing facilities?

11. PRODUCTS AND SERVICES

- Did your operation do any subcontracted packing services for other businesses in 1988? 1)
 - No Yes Skip to question 3, page 15.
- FOR SUBCONTRACTED HONEY ONLY: 2) Please fill in the following information about honey you packed for other businesses from 1985 to 1988.

Please write: NA - if you DID NOT accept any subcontracts that year.

Calendar Year	Honey Source	Volume Packed	Total Cost of Purchased Honey	Revenue Received From Services	
1985	Domestic Foreign	lbs lbs	\$	\$	
1986	Domestic Foreign	lbs	\$	\$	
1987	Domestic Foreign	lbs	\$	\$ \$	
1988	Domestic Foreign	tbs	\$	\$	

Calendar (ear	Honey Source	Volume Packed	Total Cost of Purchased Honey	Revenue Rece From Packe Honey	ed .
Purchas	n Honey sed Domestic sed Foreign		\$	\$ \$	- -
Purchas	n Honey sed Domestic sed Foreign		\$ \$	\$ \$	- - -
Purchas	n Honey sed Domestic sed Foreign	lbs lbs lbs	\$ \$	\$ \$	- -
Purcha	n Honey sed Domestic used Foreign		<u> </u>	\$ \$	_ _ _
1985 to 198	8? ————			ollowing market	
1985 to 198	ase write NA	- If you DID I	NOT use that sp DLD FOR CALL 1986	pecific outlet in	a given year.
1985 to 198 Ple Markets U	ase write NA	- # you DID I POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986	pecific outlet in	a given year.
1985 to 198 Ple Markets U Roadside M	ase write NA Jsed arket	- If you DID I POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986	pecific outlet in a ENDAR YEAR 1987	a given year. 1988 Ibs
1985 to 198 Ple Markets U Roadside M Retail Store	ase write NA Jsed arket	POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986 lbs	pecific outlet in a second outle	1988
Ple Markets U Roadside M Retail Store Institutions	ase write NA Jsed arket s	POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986 lbs	ENDAR YEAR 1987 Libs Libs Libs	1988
Markets URoadside M Retail Store Institutions Broker or D	ase write NA Jsed arket s ealer	POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986 lbs lbs	ecific outlet in a second representation of the second representation of t	1988 lbs lbs lbs
Ple Markets U Roadside M Retail Store Institutions Broker or D Direct Expo	ase write NA Jsed arket s ealer rt	POUNDS SO 1985 Lbs Lbs Lbs Lbs Lbs	NOT use that sp DLD FOR CALL 1986 Libs Libs Libs Libs Libs	ENDAR YEAR 1987 Libs Libs Libs Libs Libs Libs	1988 lbs lbs
Ple Markets U Roadside M Retail Store Institutions Broker or D Direct Expo	ase write NA Jsed arket s ealer rt Jser or rufacturer	POUNDS SO 1985 Lbs Lbs Lbs Lbs Lbs	NOT use that sp DLD FOR CALL 1986lbslbslbslbslbs	ENDAR YEAR 1987 Libs Libs Libs Libs Libs Libs	1988 lbs lbs
Markets URoadside M Retail Store Institutions Broker or D Direct Expo Industrial UFood Mar	ase write NA Jsed arket s ealer rt iser or nufacturer t (Specify)	POUNDS SO 1985	NOT use that sp DLD FOR CALL 1986 lbslbslbslbslbslbs	ENDAR YEAR 1987 lbslbslbslbslbslbs	1988

_____lbs ____lbs ____lbs

TOTAL

III. ADVERTISING AND PROMOTIONAL ACTIVITIES

1) Where did you advertise your products and services in 1988? (Please put a CHECK on the appropriate spaces.)

_	Honey	Honey with other Products	Packing Services	Other Products or Services
Local Newspapers				
Circulars				
Beekeeping Journals				
Magazines				
Community Bulletin Boards				
Direct Mail				
Road Signs				
Word of Mouth				
Other (Please List)				
Didn't Advertise				

SECTION C If you are: NOT an Importer or Broker→ Skip to Section D, Page 21 * an Importer or Broker Please continue with Section C, Page 18 17

SECTION C. IMPORTERS AND BROKERS

I. FIRM CHARACTERISTICS

- Which of the following best describes your operation? (Please circle ONE response.)
 - Full time Importer
 - b. Full time Broker
 - Full time Importer and Broker
 - d. Part time Importer
 - e. Part time Broker
 - Part time Importer and Broker
- In what state do you have your primary headquarters? 2)

II. PRODUCTS AND SERVICES

- What products do you negotiate? (Circle ALL that apply.) l)
 - a. Honey
 - Other Nutritive Sweeteners (e.g. corn syrup, sugar, etc.) b.
 - C. Other Agricultural Products
 - d. Non-Agricultural Products
- During the period of 1985 to 1988, please indicate the quantity of honey negotiated by your operation, its source, the cost, and the revenue received. 2)

Calendar Year	Honey Source	Volume	Total Cost	Total Revenue
1985	Domestic Foreign	lbs	\$ \$	\$ \$
1986	Domestic Foreign	lbs	\$	\$
1987	Domestic Foreign	lbs lbs	\$ \$	\$ \$
1988	Domestic Foreign	1bs	\$	\$

Please write NA - If yo	ou DID NOT us	e that specific (outlet in a given	year.
Markets Used	<u>1985</u>		S SOLD FOR DAR YEAR 1987	1988
Roadside Market	lbs	lbs	lbs	lbs
Retail Stores	lbs	lbs	lbs	lbs
Institutions	lbs	Ibs	lbs	tbs
Packers/Bottlers				
Independent	1 bs	lbs	lbs	lbs
Cooperative	lbs	1bs	1bs	lbs
Direct Export	lbs	lbs	lbs	Ibs
Industrial User or Food Manufacturer	lbs	Jbs	lbs	ibs
Other Outlet (Specify)				
	lbs	lbs	lbs	lbs
	lbs	lbs	lbs	lbs
Not Sold or In Storage	lbs	! bs	lbs	lbs
TOTAL	lbs	lbs	lbs	Ibs

1)	Where did you adver CHECK on the appro	tise your prod	ucts and servic	es in 1988? (Pl	ease put a
	CHECK on the appro	opriate spaces.	.)		
		Honey	Honey with other Nutritive Sweeteners	Brokerage and Importer Services	Other Products or Services
	Local Newspapers				
	Circulars				
	Beckeeping Journals				****
	Magazines				
	Community Bulletin Boards				e
	Direct Mail				
	Road Signs				
	Word of Mouth				
	Other (Please List)				
	Didn't Advertise		•		
<u>_</u>	Ple	ease continue	with Section D	. Page 21.	

SECTION D. FINANCES

Total Gross Expenses: - Please answer the following questions with regard to your entire beekeeping and/or marketing operation.

1) Please estimate the cost of the following items to your entire operation in 1988.

(Please fill in the blanks for ALL that apply.)

Please write: NA - for items that DO NOT apply to your operation.

0 - If you DID NOT incur any expenses for that item in 1988.

	COST	ПЕМ
\$_ \$_ \$_		Labor Hired labor Hired labor benefits (e.g. housing allowance, insurance, etc.) Salaries of corporate officers, management, office labor, etc.
\$_ \$_ \$_		Bees Bee food Queens and Nucs _ Package Bees
\$ \$		Supplies General (e.g. smokers, veils, drugs, supers) Containers and Packaging Materials
\$ \$	-	Equipment Repair and Maintenance Gas and oil
\$ \$		Buildings Repair and Maintenance Mortgage (including interest paid)
\$ \$ \$ \$ \$		Overhead Expenses Utilities Business Insurance Taxes Location Rent Interest on Operating Capital Office Expenses (excluding salaries)
\$ \$ \$ \$ \$		Marketing Activities Advertising Publication Subscriptions Promotion (excluding NHB Assessments) Marketing Fees (e.g. brokerage fees) Other (Specify.)

Financial Situation: -Please answer the following questions with regard to your entire beekeeping and/or marketing operation.

2) In 1988, what was your operation's approximate gross income? (Gross income is the total income before subtracting expenses. Circle the LETTER which applies to your operation.)

8.	\$2,499 or less	•	\$50,000 to \$00,000
b.	\$2,500 to \$4,999	g. h.	\$50,000 to \$99,999
C.	\$5,000 to \$9,999	:	\$100,000 to \$149,999
d.	\$10,000 to \$19,999	:	\$150,000 to \$199,999
e.	\$20,000 to \$39,999	J. k.	\$200,000 to \$499,999
f.	\$40,000 to \$49,999	ж.	\$500,000 to \$999,999
	V 10,000 to \$45,555	I.	\$1,000,000 or more

 In 1988, what was your operation's net income? (Net income is gross income minus expenses. Circle the LETTER which applies.)

a. b. c. d.	Costs exceeded income Broke even \$1 to \$2,499 \$2,500 to \$4,999	e. f. g. h. i.	\$5,000 to \$9,999 \$10,000 to \$19,999 \$20,000 to \$49,999 \$50,000 to \$99,999 \$100,000 or more
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4) What would you estimate to be the total value of all the assets of your operation at the end of 1988? (Assets include land, buildings, machinery, hives, honey, beeswax and other property. Circle the LETTER which applies.)

a.	\$2,499 or less		4444
b .	\$2,500 to \$4,999	ħ.	\$100,000 to \$149,999
C.	\$5,000 to \$9,999	į.	\$150,000 to \$199,999
d.	\$10,000 to \$19,999	j.	\$200,000 to \$499,999
c.	\$20,000 to \$39,999	ķ.	\$500,000 to \$999,999
Ē.	\$40,000 to \$49,999	1.	\$1,000,000 to \$1,499 999
g.	\$50,000 to \$99,999	m.	\$1,500,000 to \$1,999,999
Б.	420,000 to \$99,999	n.	\$2,000,000 or more

5) What was the approximate total amount of debt on the assets of your operation at the end of 1988? (Circle the LETTER which applies.)

a .	No debt		
b .	\$2,499 or less		
C.	\$2,500 to \$4,999	1.	\$100,000 to \$149,999
d.	\$5,000 to \$9,999	J. k.	\$150,000 to \$199,999
e.	\$10,000 to \$19,999	k.	\$200,000 to \$499,999
f.	\$20,000 to \$39,999	ľ	\$500,000 to \$999,999
g.	\$40,000 to \$49,999	m.	\$1,000,000 to \$1,499,999
g h.	\$50,000 to \$99,999	n.	\$1,500,000 to \$1,999,999
	***,000 to \$77,777	0.	\$2,000,000 or more

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	SECTION E. PERSONAL INFORMATION
1)	Which of the following best describes the location of your primary residence? (Please circle the LETTER where you live most of the year.)
	a. Farm b. Rural but not farm c. Community under 2,500 d. Community 2,500 or more but less than 25,000 e. Community 25,000 or more but less than 50,000 f. Community 50,000 or more but less than 100,000 g. Community 100,000 or more
2)	How many people, including yourself, live at your present address? (Please fill in the blanks. Put "0" where applicable.)
	a. Under 6 years old b. 6 to 12 years old c. 13 to 18 years old d. 19 or older
3)	What is your current marital status? (Please circle ONE response.)
	a. Martied b. Single c. Widowed/Divorced/Separated
4)	How many years of school did you complete? (Please circle ONE response.)
	a. 1 to 8 years (Elementary school only) b. 9 to 11 years (Attended some high school) c. 12 years (Graduated high school) d. 13 to 15 years (Attended college) e. 16 or more years (Graduated college)
5)	What do you consider your major occupation? (Circle the LETTER which best describes your occupation.) a. Clerical f. Own my own business (excluding farming) Lawyer, etc) g. Sales c. Managerial h. Beekeeper and/or bee producer d. Technician i. Farmer (crop, livestock, aquaculture, poultry etc.) factory, etc.) j. Retired k. Other

6)	Is thi	is occupation the major so	ource of yo	our household's income?
	a . b.	No Yes		
7)	How ! indus	long have you been a protry?	xlucer, pac	cker, importer, or broker in the beckeeping
		years		
8)	Which earner respor	n income category best rs in your immediate far nse.)	describes tally living t	the annual gross income for all wage with you last year? (Please circle ONE
	о. с. d.	Less than \$9,999 \$10,000 to \$19,999 \$20,000 to \$39,999 \$40,000 to \$69,999 \$70,000 to \$99,999	f. g. h. i. j.	\$100,000 to \$149,999 \$150,000 to \$199,999 \$200,000 to \$499,999 \$500,000 to \$1,000,000 Over \$1,000,000
9)	How of	ld were you on your last	birthday?	
		y,	ears old	
10)	Are you	1:		
		a Female b. Male		
11)	How lon	ng did it take you to comp	plete this q	uestionnaire?
			minutes	
			24	

SECTION F. YOUR COMMENTS Is there anything else that you would like to tell us about your operation? If you do, please use the space below for that purpose. Do you have any comments about this survey in general, as well as any of its specific sections or questions? We would appreciate your comments to help us learn more about issues important in identifying the needs and current economic status of the honey industry.

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If you have any questions regarding this study or this questionnaire, please contact:

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THANK YOU FOR YOUR COOPERATION. PLEASE MAIL THIS QUESTIONNAIRE TO US IN THE ENCLOSED POSTAGE PAID ENVELOPE.

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