

Department of Extension Specialists
Rutgers Cooperative Extension
New Jersey Agricultural Experiment Station
Martin Hall, Cook Campus
New Brunswick, New Jersey 08901

March 4, 2003

Re: 2003 Survey of the Greenhouse Industry in New Jersey

Dear New Jersey Greenhouse Grower,

This spring, Rutgers Cooperative Extension is conducting a NJ greenhouse industry survey. The purpose of the survey is to provide information about the economic situation of NJ growers, as well as to determine what important issues are impacting the greenhouse industry. After evaluation of the data collected through the survey, we plan to organize an extension meeting where growers and extension agents will be presented with useful information to help them address the most pressing industry challenges. We plan on inviting several experts and ask them to present workable solutions. Funding for this survey was provided by a grant from Rutgers Cooperative Extension through the Department of Extension Specialist.

Please take a few minutes to complete the enclosed questionnaire and mail your answers back to us. Your answers will help us plot directions for future research and outreach activities, and therefore, by completing the survey you will have a voice in deciding these future activities. Your cooperation is much appreciated! We want to thank you in advance for your collaboration. If you have any questions, please do not hesitate to contact us.

Sincerely,

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Enclosure





Department of Extension Specialists Rutgers Cooperative Extension New Jersey Agricultural Experiment Station Martin Hall, Cook Campus New Brunswick, New Jersey 08901

2003 SURVEY OF THE GREENHOUSE INDUSTRY IN NEW JERSEY

1.	In what county is your business located?						
2.	What year was your greenhouse business established?						
3.	What is the legal structure of your firm? (Check one)						
	□ Sole Proprietorship □ Partnership □ Limited Liability Company (LLC) □ Other (please specify) □ C Corporation □ Sub-chapter S Corporation						
4.	Are you involved in other farming operations besides greenhouse production? ☐ Yes ☐ No						
5.	If yes, please list them:						
6.	You would describe sales from your greenhouse operation as% retail,% wholesale						
7.	The total size of your production greenhouse(s) is square feet						
8.	Since 2000, your greenhouse operation has:						
	☐ Remained the same size ☐ Increased by square feet ☐ Decreased by square feet						
9.	Do you anticipate expanding your operation within the next five years? ☐ Yes ☐ No						
10	If yes, will you be expanding in your:						
	□ Retail operation □ Wholesale operation □ Production greenhouses □ All three □ Other (please specify)						
11.	The approximate percentage (growing area) of total sales for the following crops are:						
	% bedding plants% perennials% hanging baskets% cut flowers% flowering bulbs% poinsettias% geraniums% other potted plants% field grown cuts% hardy mums% herbs% vegetables% other (please specify)						



12.	Do you (please ch	neck all that a	ipply):					
	☐ Produce you ☐ Sell pre-finis		•		□ Buy pre	e-finished pl	ants	
13.	Please indicate th members) you em			t-time, and se	easonal em	ployees (inc	cluding famil	y
	Full-time	Part-time	Seasonal		Full-time	Part-time	Seasonal	
	Jan Feb Mar Apr May June			July Aug Sept Oct Nov Dec				
14.	Since 2000, the n	umber of you	r employees:	increase	d □ deci	reased 🗆 s	tayed the san	ne
15.	If increased or de	creased by ho	ow much?	%				
16.	What percentage	of your busin	ess' total and	nual sales occ	curs during	each month	n?	
	Jan % Feb % Mar %	Apr _ May _ June _	% % % %	Jul Aug Sept	% % %	Oct Nov Dec		
17.	Is your greenhous	se business a	□ par	t-time busine	ess, or D	☐ full-time b	ousiness?	
18.	Is your greenhous	se business yo	our major sou	arce of incom	ie?	□ Yes	□ No	
19.	Do you sell your (please check all	-		state distant states		to neighbor out of the	_	
	What percentage What percentage	•				?	% %	
20.	If your business s	sells mostly re	etail, where d	oes most of y	our comp	etition come	s from?	
	Large retail chain Retail firms – Gar Retail firms – Sup Other, please spec	rden Centers permarkets				☐ Yes	□ No□ No□ No□ No	
21.	If your business s	sells mostly re	etail, what pe	rcentage of y	our retail s	sales is:		
	On site (farm star In a flower shop (Through a farmer Other, please spec	(florist) 's market					% 9% 9% 9%	
22.	If your business s	sells mostly w	holesale, wh	ere does mos	st of your c	ompetition of	comes from?	
	Growers in New . Growers in other Other, please spec	states					□ No □ No □ No	

23.	If your business sells mostly wholesale, what percentage of your wholesale sale	es i	s to			
	Large retail chains – Mass Merchandisers Retail firms – Garden Centers Retail firms – Supermarkets Other, please specify:		% % % %			
24.	Are you aware of plans for expansion by your competition? \square Yes		l No)		
25.	Do you plan to expand into a niche market? ☐ Yes		l No)		
	If yes, what is this niche market?					
	If yes, how long do you expect it to remain in this niche market?					
26.	What is the greatest challenge to expanding your operation?					_
27.	What is the greatest challenge for greenhouse industry expansion in your coun	ty?				
	How do you think future expansion of the greenhouse industry in New Jersey \square positively \square negatively \square no effect Please rate each of the factors listed below according to how much they were a successful operation of your business. Use a 1 to 5 scale with 1 = very minor, neutral, 4 = major, 5 = very major. Please insert a check mark in the appropria	i ch 2 =	alleı mir	nge	to th	
Γ	Factor	1	2	3	4	5
-	Ability to attract and retain competent management			5	_	3
F	Ability to attract and retain competent employees					
F	Your own management expertise					
F	Your own marketing expertise					
-	Availability of capital (cash and/or loans)					
F	Production costs					
F	Competition					
f	Zoning regulations					
f	Environmental regulations					
f	Other governmental regulations					
f	Weather uncertainty					
f	Other, please specify:					

30. Please rate each of the factors listed below according to the degree they created a challenge for growing high quality plants. Use a 1 to 5 scale with 1 = very minor, 2 = minor, 3 = neutral, 4 = major, 5 = very major. Please insert a check mark in the appropriate cell.

Factor	1	2	3	4	5
Greenhouse environment control					
Insect control					
IPM program (when applicable)					
Disease control					
Weed control					
Crop irrigation					
Water quality					
Weather (including drought)					
Cultural requirements of new crops					
Scheduling crops in the greenhouse					
Incorporating new technologies					
Other, please specify:					

31. Please rate how much of the factors listed below contributed to your finished product pricing. Use a 1 to 5 scale with 1 = very minor, 2 = minor, 3 = neutral, 4 = major, 5 = very major. Please insert a check mark in the appropriate cell.

Factor	1	2	3	4	5
Cost of production					
Labor cost					
Other growers' prices					
Quality of plant material					
Market demand					
Product uniqueness					
Inventory levels					
Last year's price					
Other, please specify:					

32. Please rate to what extend the factors listed below pose a challenge to the potential expansion of your business. Use a 1 to 5 scale with 1 = very minor, 2 = minor, 3 = neutral, 4 = major, 5 = very major. Please insert a check mark in the appropriate cell.

Factor	1	2	3	4	5
Availability of capital					
Availability of qualified labor					
Marketing opportunities					
Availability of usable land					
Availability of high quality water					
Transportation challenges					
Novel crop selection					
Other, please specify:					

33.	Please indicate the annual gross sa	ales for your greenh	ouse operation la	ast year (20	02):				
	□ \$10,000-\$24,999 □ \$ □ \$25,000-\$49,999 □ \$	\$100,000-\$199,999 \$200,000-\$299,999 \$300,000-\$399,999 \$400,000-\$499,999	□ \$1, □ \$2,	00,000-\$999 000,000-\$1, 000,000-\$3, 000,000 and	999,999				
34.	4. Please indicate the average wage per hour you pay your:								
	seasonal employees \$	full-time	employees \$						
35.	Are you planning on hiring more	employees the next	couple of years?	☐ Yes	□ No				
36.	Which production practices do yo	u use?	☐ Conventiona	1 □ IPM	☐ Mixture				
37.	If using IPM, are you satisfied with	th the results?		☐ Yes	□ No				
38.	If applicable, are you considering	organic production	?	□ Yes	□ No				
39.	In your opinion, what are the chal	lenges for organic p	oroduction?						
40.	Are you considering automation f	or labor savings pu	poses?	☐ Yes	□ No				
41.	If yes, what type of equipment are	e you considering? _							
42.	Are you considering updating you	ır nutrient delivery s	system?	☐ Yes	□ No				
43.	. If yes, what type of equipment are	e you considering? _							
44.	Are you considering installing a ra	ainwater collection	system?	☐ Yes	□ No				
45.	Are you concerned about water us	se restrictions and re	egulations?	☐ Yes	□ No				
46.	Do you plan on using a water reci	rculation system?		☐ Yes	□ No				
47.	Are you concerned about disease	issues in recirculation	on systems?	☐ Yes	□ No				
48.	Are you considering energy savin	g technologies?		☐ Yes	□ No				
49.	Are you considering alternative en	nergy sources (e.g.,	wind, geotherma	ıl) 🗆 Yes	□ No				
50.	Are you considering co-generation	n (electricity and he	at)?	☐ Yes	□ No				
51.	. Do you have a computer-operated	l environment contro	ol system?	☐ Yes	□ No				
52.	If yes, are you satisfied with its ca	apabilities and opera	ation?	☐ Yes	□ No				
53.	If not, are you considering installi	ng one in the near f	uture?	□ Yes	□ No				
54.	Are you considering constructing	additional greenhou	ises?	□ Yes	□ No				

55. If not, are you considering	g renovating/upgrading existing on	es?	s 🗆 No			
56. If yes, what type of new greenhouse structure are you considering? (please check all that apply)						
☐ High tunnel	☐ Double poly hoop house	☐ Glass greenho	ouse			
☐ Open-roof greenhouse	☐ Retractable roof greenhouse	☐ Single-span gr	reenhouse			
☐ Gutter-connected green	house					
57. Do you have difficulty co	mplying with Worker Protection S	tandards? □ Ye	s 🗆 No			
58. How do you get help with	your business related questions? I	Do you contact or o	consult (please			
check all that apply):						
☐ Local extension agent	☐ Extension specialist	☐ Rutgers Unive	ersity fact sheets			
☐ Equipment manufactur	es Colleague growers	☐ Other reference	ces (e.g., books)			
☐ Internet						
☐ Other (please specify)						
59. Which of these reference	sources do you find most useful (p	lease check only o	ne)?			
☐ Local extension agent	☐ Extension specialist	☐ Rutgers Unive	ersity fact sheets			
☐ Equipment manufactur	es Colleague growers	☐ Other reference	ces (e.g., books)			
☐ Internet						
☐ Other (please specify)						
60. Do you own a computer?		☐ Yes	□ No			
61. Do you use the Internet?		☐ Yes	□ No			
62. Do you use the Internet fo	or business?	☐ Yes	□ No			
63. Do you have your own we	eb site?	☐ Yes	□ No			
64. If not, would you like to h	ave your own web site?	☐ Yes	□ No			
65. If yes, do you sell your pr	oducts on your web site?	☐ Yes	□ No			
66. Are you familiar with the	following Rutgers Cooperative Ex	tension web sites:				
http://aesop.rutgers.edu/	/~farmmgmt? (Economics)	☐ Yes	□ No			
http://aesop.rutgers.edu/	/~floriculture? (Crop Production)	☐ Yes	□ No			
http://aesop.rutgers.edu/	/~horteng? (Engineering)	☐ Yes	□ No			
67. What additional types of i	nformation would you like to see a	available on these	web sites that			
would be helpful to your l	ousiness?					
-						

68. Please indicate all methods of advertising you use.									
☐ Internet ☐ Brochures ☐ Other (please s			☐ Newspapers ers, Banners, etc.						
Thank you very much for taking the time to provide information about your business!!!!!									
Please feel free to use completed survey to:	e the remainder of this p	age to list any add	itional comments and return your						
Dr. George Wulster Department of Plant Biology and Pathology									
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