Online Appendix C: Surveys

MAIN WAVE SURVEY

To purchase more machinery/physical equipment

To open/invest in new facilities

SECTI	ON A: BASIC CHARACTERIST	TICS OF THE FIRM						
1.	What is the main product of the "Main product": The product (goo Answer:		group from wh	ich this firm gets its	s largest share o	f revenue.		
2.	What is the total number of emp	oloyees working at this in ment for firm:		any are used for the mployment for mai		t or product li	ne?	
3.	How many years old is the firm?							
	Answer:							
4.	Report the dollar value of the to the dollar value of the amount machinery already in place and re- conditions and a realistic work sch	the firm could have proady to operate; with norm	oduced over to nal downtime; bor, materials,	he last twelve more with the number of utilities, etc. are ful	nths if it had b shifts, hours of	een operating operation and of same product in	at full capacity (i.e. governime pay that can be	given the equipment and e sustained under norma
	Actual Production:					_		
	Potential Production:							
5.				om sales in New Z	ealand (vs. othe	er countries)?		
	Answer:				`	,		
6.	How many direct competitors de	oes the firm face in its n	nain product l	ine?				
	Answer:	firms.						
7.	Out of the total revenues of the finputs (raw materials, energy in		ed for comper Energy Co	-	oyees and what Costs of Rav		d for the costs of mat	erials and intermediat
	Share of total revenues:			%				
	If your firm was free to change is how much would it change its properties a numerical answer in %). If price changed this month: Expected change in price: How much would you be willing per your sper your sper your would firm. In particular, for each of you would be affected by an incompared to the properties of the price of	ice? Please provide a num """ to pay per year to have ear d like you to think about the following options, prease in macroeconomic If macroeconomic Much more	E access to a mut the ways in lease provide uncertainty. Conomic uncer	in %). By how much spected change in ponthly magazine of which uncertainty an answer ranging [RANDOMIZE: Heatinty went up]/de Neither more	orofits: of professional and about the over grom "much [ALF OF FIRM own], I/my firm Somewhat	macroeconomicall economy is more likely" to the would be Much les	change as a share of r % c forecasts? nay (or may not) affeo o "much less likely" to REASE IN UNCERTA s Does not apply to	revenues (Please provident of the decisions in you that best describes how
m 1:		likely	more likely	nor less likely	less likely	likely	me/my firm	
	re more employees							
To rai	ise my price(s)							

To increase average wages							1
To open new export markets							1
To apply for new loans							1
To increase cash reserves							1
To introduce new products/services							1
To make plans for ten or more years from nov	V						1
To do more advertising							1
To engage in more R&D							1
To see my operating margins increase							1
SECTION B: CHARACTERISTICS OF THE FIRM MANAGER 11. How many years of work experience do you have: At this firm:							
a. Daily, b. Weekly c. Monthly			ly f. Annually	g. Not eve	en once a year, h.	Never	
19. How often would you say you comm	unicate or share info	ormation with cu	stomers about	economic trend	ls and condition	s?	
a. Daily, b. Weekly c. Monthly	d. Quarterly	e. Semiannual	ly f. Annually	g. Not eve	en once a year, h.	Never	
20. How often would you say you comm	unicate or share info	ormation with su	ppliers about e	conomic trends	s and conditions	?	
a. Daily, b. Weekly c. Monthly			ly f. Annually		en once a year, h.	Never	
21. For a typical customer/supplier/peer Talks with a typical customer Talks with a typical suppliers Talks with a typical peer firm	per month:			ends and condi	tions?		
22. If you had to place a dollar value or economic trends and conditions each	n the information tha h year, how much do	at you acquire for you think that \$	s value would be	e?		\$ per year	
23. Suppose you are looking ahead to 20 industry and/or the aggregate New 7 Your industry:	Zealand economy. Ho	ow much would y	you allocate to a New Zealand	acquiring inford economy:	mation about ea	nch? The total shou \$	ld sum to \$100.
24. Suppose you buy a \$2 charity ticket prize will you choose from below (Pl a. Annual subscription to a nation	lease select one)?	•	prize. If you we be scription to you	. •		ed to choose one of	the two prizes. Which

To increase average wages

25.	How would you characterize the current macroeconomic outlook in over the next 6-12 months New Zealand?
a.	Extremely uncertain b. Quite uncertain c. Somewhat uncertain d. Not particularly uncertain e. Not uncertain at all
26.	Now we'd like you to think about what you perceive as the most pessimistic and most optimistic economic outlooks for New Zealand over the next 6 months. What
	do you think the lowest annualized GDP growth rate might be for this time period and what do you think the highest might be? (please provide an answer as % per
	year).
	Lowest growth rate:% per year Highest growth rate: % per year
27.	You said that the lowest value is XXX and the highest value is YYY. The midpoint of this range is ZZZ=[(min+max)/2] % per year. What is the probability that
	the growth rate of the economy exceeds this midpoint at an annualized rate over the next six months?
28.	Now we'd like you to think about what you perceive as the most highest and lowest possible inflation rates in New Zealand over the next 6 months. What do you
	think the lowest annualized inflation growth rate might be for this time period and what do you think the highest might be? (please provide an answer as % per
	year).
	Lowest inflation rate:% per year Highest inflation rate: % per year
29.	What is the probability that the annualized inflation rate exceeds [(min+max)/2] % per year over the next six months?
	Now we'd like you to think about what you perceive as the most highest and lowest possible annualized growth rate in sales for your firm over the next 6 months.
	What do you think the lowest and highest growth rates might be for this time period? (please provide an answer as % per year).
	Lowest sales growth rate:% per year Highest sales growth rate:% per year
31.	What is the probability that annualized growth rate of your sales exceeds [(min+max)/2] % per year over the next six months?
SECTION	ON D: ANTICIPATED ACTIONS
32.	Over the next 6 months, by how much (in % changes relative to current levels) do you anticipate to change:
a)	The price of your main product: %
b)	Total employment at your firm: %
c)	Capital stock at your firm: %
d)	Average wages at your firm: %
33.	Over the next 6 months, do you plan to do any of the following:
	Introduce any new major products or services Yes No
	Expand to new export markets Yes No
	Invest in major new technologies/equipment? Yes No
	Open new production, retail, or office facilities Yes No
34.	Do you invest in advertising? If so, by how much do you expect your monthly advertising budget to change over the next 6 months? (please provide a quantitative
	answer as a % change)
	Yes No [If Yes]: %
35.	Do you engage in research and development? If so, by how much do you expect your monthly research and development budget to change over the next 6 months?
	(please provide a quantitative answer as a % change)
	Yes No [If Yes]: %
36.	Now think of your percentage operating margin, i.e. the % by which your average price exceeds your average operating cost (the cost of material inputs if any plus
	labor costs but not overhead). By how many percentage points do you think this margin is likely to change over the next six months?
	I expect my operating margin to increase by % points over the six months.
	I expect my operating margin to stay about the same over the next six months.
	I expect my operating margin to decline by % points over the next six months.
EXPER	RIMENT: INFORMATION TREATMENTS [RANDOMIZE]

EX

Group 0 (Control): No information

Group 1 (Mean treatment): We are going to give you information from a group of leading experts about the economy. The average prediction among professional forecasters is that New Zealand's GDP will grow 4% in 2021.

Group 2 (Uncertainty Treatment): We are going to give you information from a group of leading experts about the economy. These professional forecasters are quite uncertain about the outlook for the New Zealand economy. The difference between their optimistic forecast and pessimistic forecast is approximately 3.1 percentage points for the 2021 GDP growth rate.

Group 3 (Joint): We are going to give you information from a group of leading experts about the economy. The average prediction among professional forecasters is that New Zealand's GDP will grow 4% in 2021. They are quite uncertain about the outlook for the New Zealand economy. The difference between their optimistic forecast and pessimistic forecast is approximately 3.1 percentage points for the 2021 GDP growth rate.

SECTION F: FOLLOW-UP QUESTIONS

1. What do you think the growth rate of the New Zealand economy will be over the next twelve months in each of the following scenarios:

Your most pessimistic outlook:	% per year
Your somewhat pessimistic outlook:	% per year
Your middle-of-the-road outlook:	% per year
Your somewhat optimistic outlook:	% per year
Your most optimistic outlook:	% per year

2. Now, please tell us what probability you would assign to each of the five outlooks you just described. The probabilities should sum to 100.

Probability that your most pessimistic outlook comes true:	%
Probability that your somewhat pessimistic outlook comes true:	%
Probability that your middle-of-the-road outlook comes true:	%
Probability that your somewhat optimistic outlook comes true:	%
Probability that your most optimistic outlook comes true:	%

3. What do you think the inflation rate in New Zealand will be over the next twelve months in each of the following scenarios:

Your outlook with the lowest inflation rate:	% per year
Your outlook with somewhat low inflation rate:	% per year
Your middle-of-the-road outlook:	% per year
Your outlook with somewhat high inflation rate:	% per year
Your outlook with the highest inflation rate:	% per year

4. Now, please tell us what probability you would assign to each of the five outlooks you just described. The probabilities should sum to 100.

Probability that your outlook with the lowest inflation rate:	%
Probability that outlook with somewhat low inflation rate:	%
Probability that your middle-of-the-road outlook comes true:	%
Probability that outlook with somewhat high inflation rate:	%
Probability that outlook with the highest inflation rate:	%

5. What do you think the growth rate of your firm's sales will be over the next twelve months in each of the following scenarios:

Your most pessimistic outlook:	% per year
Your somewhat pessimistic outlook:	% per year
Your middle-of-the-road outlook:	% per year
Your somewhat optimistic outlook:	% per year
Your most optimistic outlook:	% per year

6. Now, please tell us what probability you would assign to each of the five outlooks you just described. The probabilities should sum to 100.

Probability that your most pessimistic outlook comes true:	%
Probability that your somewhat pessimistic outlook comes true:	%
Probability that your middle-of-the-road outlook comes true:	%
Probability that your somewhat optimistic outlook comes true:	%
Probability that your most optimistic outlook comes true:	%

7. How would you characterize the current macroeconomic outlook in over the next 6-12 months New Zealand for people like you? a. Extremely uncertain c. Somewhat uncertain d. Not particularly uncertain b. Ouite uncertain e. Not uncertain at all This is the end of the survey. Thank you very much for your time. **FOLLOW-UP SURVEY** SECTION A. BASIC CHARACTERISTICS OF THE FIRM 1. What is the total number of employees working at this firm? How many are used for the main product or product line? Employment for firm: Employment for main product: Number: Report the dollar value of the total amount produced by this firm over the last twelve months and that for the main product or product line. Please also report the dollar value of the amount the firm could have produced over the last twelve months if it had been operating at full capacity (i.e. given the equipment and machinery already in place and ready to operate; with normal downtime; with the number of shifts, hours of operation and overtime pay that can be sustained under normal conditions and a realistic work schedule in the long run; labor, materials, utilities, etc. are fully available; the same product mix as the actual production). Total Production Value Production Value for Main Product Actual Production: \$ \$ Potential Production:\$ Out of the total revenues of the firm, what fraction is used for compensation of all employees and what fraction is used for the costs of materials and intermediate inputs (raw materials, energy inputs, etc.)? Labor Costs **Energy Costs** Costs of Raw Materials Share of total revenues:%%% 4. If your firm was free to change its price right now (i.e. suppose there was no cost to renegotiating contracts with clients, no costs of reprinting catalogues, etc.), by how much would it change its price? Please provide a numerical answer in %). By how much do you think profits would change as a share of revenues (Please provide a numerical answer in %). If price changed this month: Expected change in price:% Expected change in profits: %

SECTION B: VALUE OF INFORMATION

- If you had to place a dollar value on the information that you acquire from suppliers, customers, peer firms, competitors and professional organizations about economic trends and conditions each year, how much do you think that \$ value would be? \$ per year
 Suppose you are looking ahead to 2022. You are choosing how to allocate the first \$100 to acquire information. You can learn about economic conditions in your
- industry and/or the aggregate New Zealand economy. How much would you allocate to acquiring information about each? The total should sum to \$100.

 Your industry:

 New Zealand economy:

 \$
 New Zealand economy:

 \$

SECTION C: ACTUAL ACTIONS

- 1. Over the last 6 months, by how much (in % changes relative to current levels) did you change:
 - 1. The price of your main product: %
 2. Total employment at your firm: %
 - 3. Capital stock at your firm: %
 4. Average wages at your firm: %
 %
- 2. Over the last 6 months, did you do any of the following:

Expand to new export markets Yes No		Introduce any new major products or services	Yes	No	
Open new production, retail, or Office facilities 7. Did you invest in advertising over the previous of months? If so, by how much did you change your monthly advertising budget? (please provide a quantilative answer as a % change) 7. Did you engage in research and development over the previous 6 months? If so, by how much did you change your monthly research and development budget? (please provide a quantilative answer as a % change) 7. Now think of your percentage operating margin, i.e. the % by which your average price exceeds your average operating cost (the cost of material inputs if any plus labor costs but not overhead). By how many percentage points do you think this margin changed over the last is months. My operating margin interessed by % points over the last six months. My operating margin interessed by % points over the last six months. My operating margin interessed by % points over the last six months. My operating margin declined by % points over the last six months. My operating margin interessed by % points over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed about the same over the last six months. My operating margin stayed controlock: Probability that your most optimistic outlook comes true: Probability that your most pessimistic outlook comes true: Probability that your most optimistic outlook comes true: Probability that your onewhat points institution rate: Probability that your onewhat points		Expand to new export markets	Yes	No	
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answer as a % change) 4. Did you engage in research and development over the previous 6 months? If so, by how much did you change your monthly research and development budget? (please provide a quantitative answer as 8 % change) Yes No [II Yes]:					
(please provide a quantitative answer as a 's change) No lift'yes:	3.	Did you invest in advertising over the previous 6 months answer as a % change)	Yes No		
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Your somewhat optimistic outlook: % per year		Your middle-of-the-road outlook:	% per year		
		Your somewhat optimistic outlook:	% per year		

	Your most optimistic outlook:	6 per year		
6.	Now, please tell us what probability you would assign to each	h of the five outlooks you	just described. The probabilities	s should sum to 100.
	Probability that your most pessimistic outlook comes true:	%		
	Probability that your somewhat pessimistic outlook comes true:	%		
	Probability that your middle-of-the-road outlook comes true:	%		
	Probability that your somewhat optimistic outlook comes true:	%		
	Probability that your most optimistic outlook comes true:	%		
7.	How would you characterize the current macroeconomic out	tlook over the next 6-12 m	nonths New Zealand for people l	ike you?
	a. Extremely uncertain b. Quite uncertain c.	. Somewhat uncertain	d. Not particularly uncertain	e. Not uncertain at all

This is the end of the survey. Thank you very much for your time.