

Economic Reforms and Firm Level Strategic **Planning**

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Various economic liberalization measures have been adopted by the New Zealand Government since mid-1984. These economic reforms accelerated competition and pace of change among agribusiness firms. Agribusiness decision makers were found to be aware of the importance of strategic planning. This study investigated with survey methods the degree to which agribusiness managers have used strategic planning to adjust to their new environment. ©1995 John Wiley & Sons, Inc.

Introduction

An uncertain economic environment in agriculture is widely accepted.1 Thus, agribusiness organiza-

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tions and decision makers have a basic survival issue of how to deal with this changed environment. A growing need exists for managers to be aware of the impact of environmental changes on business. How agribusiness firms cope with environmental uncertainties and changes will probably be the most important determinant of future success or failure.2

Strategic management theorists have recommended planning as an essential tool for managers. A long series of empirical studies, however, has provided mixed support for the value of formal strategic planning.3 For instance, the value of planning processes has been questioned by Leontiades and Tezel,4 Higgins,5 Peters,6 Peters and Waterman,7 and Kiechel.8 On the other hand, some studies have documented the potential payoffs associated with the adoption of strategic planning. Thune and House,9 Krager and Malik,10 and Welch¹¹ among others have found that companies that engaged in formal strategic planning outperformed those that did not.

Scant information, however, is available on the area of organizational operations and strategic planning under an uncertain environment. More-

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tegic planning and firm operations of a sample of agribusiness firms in New Zealand during the economic liberalization period covering 1984 to 1990. The objectives of this article are: 1. to assess firms' sales and profit performance over the economic liberalization period in question; 2. to determine the extent of the use of formal strategic planning processes by agribusiness firms be-

fore and during the implementation of the

3. to gain some valuable insights into the characteristics of the strategic planning processes actu-

New Zealand's Economic Reforms

Prior to the mid-1980s, the agribusiness industry,

ally used by agribusiness firms before and after

over, very few studies have attempted to focus on

the strategic management aspects of agribusiness

firms. Westgren et al.12 argued that more agribusiness research related to the area of strategic man-

agement is needed. In addition, King and Sonka¹³

suggested that the three areas of research in which

This study attempts to assess, using results from

an exploratory survey, the characteristics of stra-

agricultural economists could be of great help to

agribusiness managers are managing innovation and change, managing risk, and organizational de-

sign in an uncertain environment.

economic reforms; and

which contributes more than 60% of New Zealand's merchandise exports, was backed by subsidies, price supports, and tax reliefs. Moreover, the New Zealand government actively managed the major macroeconomic variables (e.g., wages, interest rates, exchange rates, money supply, and inflation) with social goals dominating economic goals.

New Zealand's relative standard of living, however, has fallen from third highest in the world in 1950 to twenty-third in 1987 due to low economic growth, poor productivity, high unemployment, and large external debt. Consequently, in mid-1984, New Zealand started implementing various economic liberalization measures designed to reduce the direct role of government in the economy. 14 Economic liberalization measures adopted

the implementation of economic reforms. Strategic Planning

The economic reforms have transformed New Zealand's economy into one of the least regulated economies in the world.15 The OECD noted that

New Zealand is one of the few developed countries

sively. 16 These economic reforms seem to have en-

that reformed its agricultural policy comprehen-

hanced competition, reduced real tax burdens,

by the government beginning in mid-1984 included

· foreign exchange and other financial controls;

reforms related to:

· taxes and import licenses;

· tariffs and export subsidies;

· supplemental minimum prices; and

procedures for labor negotiations.

removed price distortions, and restored choice in business decision making. Recent economic growth in New Zealand has been attributed to the success of these reforms. Several of these reforms, however, were implemented relatively quickly and brought uncertainty to the country's agribusiness industry.^{a17} This article offers an empirical assessment of the effect of these economic reforms on agribusiness firms' strategic planning processes.

A strategic planning process is a set of organizational task definitions and procedures for ensuring that pertinent information is obtained, forecasts are made, and strategic choices are addressed and evaluated in a consistent and timely fashion.2 It deals primarily with the effort directed at the development of a purpose, the design of strategies, and the implementation of policies by which organizational goals and objectives are accomplished. 18 Strategic planning should, therefore, help executives answer basic questions such as "what have been our business objectives?" or "what has been or will be our business?" or "what should we do to ensure that objectives are achieved?".2

*The changes considered most undesirable by many agribusiness firms included: reduction in the profitability of exports caused by the appreciation of the New Zealand dollar; the increased cost of working capital; reduced subsidies to farmers; and reduced purchasing power of the domestic market. 15

	Mission/Goal/Objective	Assumed Relationship with Environment	Time Horizon
Short-Term Forecasting	Identify near-term operating results	Either stable or unstable	Less than 1
Budgeting	Financial control of operating results	Stable	Normally 1 year
Annual Planning	Identify problems, opportuni- ties, and turning points to maximize results on an an- nual basis	Unstable	l year
Long-Range Planning	Identify problems, opportunities, and turning points to maximize results of current or closely related operations over a longer period	Stable	5, 10, or 15 years
Strategic Planning	Identify new areas in which skills may be applied and threats to current operations may be thwarted	Unstable	5, 10, or 15 years
Source: Rhyne.3		<u> </u>	
tems based on the the length of their	level of their openness and que	iod October to December stionnaires were mailed as. Personal interviews o	to 175 agribusiness

Table I. Characteristics of Types of Planning.

types of planning are short-term forecasting, budgeting, annual planning, long-range planning, and strategic planning. The characteristics of each of these types of planning are shown in Table I.3 The terms strategic planning and long-range planning have often been used interchangeably in the strategic management literature. Rhyne suggested that the fundamental distinction between the two planning

types is based on "whether the domain of the

strategic planning."

organization was considered given—long range planning; or whether it was open to question—

Methodology This study used a mail survey of agribusiness period January to February 1993 to supplement the information received through the mail questionnaires. A wide range of New Zealand agribusiness firms responded to the questionnaire. A total of 57 firms responded and these include firms selling fertilizer, animal health products, farm equipment, wool brokerage and exporting services, skin and leather products, forestry

ness executives were also conducted during the

products, fish products, dairy cooperatives, farm consultancy businesses, farm and agribusiness finance firms, stock and station agents, agricultural product packaging services, meat processors and exporters, and stat-

ior of those firms that participated in the sur-

utory boards. Nonresponse bias may cause problems if there was a systematic difference in the behav-

decision makers across New Zealand over the

of information is unavailable and hard to obtain, there is no systematic way of determining possible sampling biases except to use the response rate as an indicator. Even though the response rate in this survey is not unreasonably low (33%) compared to most surveys, some degree of nonresponse bias may realistically exist. Efforts were made, however, to represent all types of agribusinesses in the sample. (A copy of the questionnaire used in the survey is available from the authors upon request.)

vey and those that did not. Because this type

Survey Results

Valuable insights into the strategic planning

processes actually used by the agribusiness firms were obtained. Of the 57 firms responding to the survey, 33 (58%) had formal strategic planning processes in place and 24 had no formal planning mechanisms. Of the 33 firms with formal strategic planning processes, 25 had formal written strategic plans and 8 had no written plan. Hence strategic planning seems to be a very important activity for many of the firms surveyed. Likewise, the existence of a significant number of firms with formal written strategic plans is in contrast with Westgren et al.'s12 results from a survey of California agribusinesses and Robinson and Pearce's 19 findings relative to small businesses in general. Respondents were also asked whether they consider their organization a fast-growing firm. Interestingly, 22 of the 57 firms surveyed answered positively to this question and most of these firms had formal

Among those that had formal strategic planning processes in place, 5 started their planning processes before 1984, 17 started theirs during the period 1984 to 1990, and 11 started having strategic planning processes in place after 1990. Based on these figures, it seems that the economic reforms and the feeling of uncertainty that came along with these changes had a positive effect in terms of opening the doors

strategic planning processes.

Table II. Persons Involved in Firms' Strategic Processes.			
	Number of Firms	Extent of Contribution (%)	
President/CEO	29	39	
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Planning Officer	25	40	
Industry Consultant	9	3	
Board of Directors	8	11	
Other	5	7	

of the firms to strategic planning. Indeed, most of the agribusiness executives interviewed appear to believe that the economic reforms have made them more aware of the importance of strategic planning.

Respondents were asked to identify the indi-

Respondents were asked to identify the individuals involved in the strategic planning process and the extent of their involvement. Results reveal that the Chief Executive Officers (CEO) or the Presidents of 29 firms were involved in strategic planning (Table II). Twenty-five firms revealed the involvement of planning officers, nine firms indicated the use of industry consultants, and eight firms had the participation of members of the board of directors. Interestingly, the respondents indicated on the average that CEOs and planning officers contribute close to 40% each of the total effort devoted to planning. Industry consultants comprised roughly 3% of the total and members of the board of directors and others made up the remainder of the effort. The significant weight of the CEOs' contribution to the planning processes could be due to the fact that many of the firms in the survey are rela-

The 33 firms with formal strategic planning processes in place were also queried as to the component parts of those processes. The number of firms conducting each of the strategic planning elements are as follows:

 analysis of competitors 	33
 competitor future strategies 	23
	91

tively small in size.

 general business environment 	31
• trends in industry	28
• firm resources available	28
 buyers' bargaining powers 	21
 suppliers' bargaining powers 	21
 firm's competitive position 	30

All but one firm among those that had formal strategic planning processes update their plans regularly. Moreover, 27 of 33 firms indicated that their formal strategic plans are tied to annual operating results.

Respondents were also requested to disclose the amount of sales and profits of their firms during two periods: 1983 to 1984, prior to the start of the implementation of the economic liberalization measures; and 1990 to 1991, after most of the measures have been implemented. As shown in Table III, differences are evident in the level of sales and profits of the firms surveyed between the two given periods. In fact, during the period 1983 to 1984, average domestic and export sales of the 33 firms that responded to this question amounted to about NZ\$48 million. This figure increased to NZ\$99 million during the period 1990 to 1991, when most of the economic liberalization measures had been implemented. The percentage of a firm's sales from exports slightly increased as well from 24.82% in 1983 to 1984 to 25.39% in 1990 to 1991. Average after tax profits of the 28 responding firms surveyed likewise soared from about NZ\$2.3 million be-

fore the implementation of the economic liber-

to 1991. Some agribusiness executives had res-

alization measures to NZ\$9.8 million in 1990

ervations about the effectiveness of the economic reforms implemented. Yet, most of the firms in the survey had improved their sales and profits during the economic liberalization period.

As expected, some downsizing occurred during the economic liberalization period. Results from 42 responding firms indicate that the average number of employees slightly declined from 374 in 1983 to 1984 to 327 in 1990 to 1991.

The economic liberalization measures adopted since mid-1984 have changed the environment in which the firms operate. Respondents were then asked to compare and evaluate the relative difficulty of determining their goals and objectives based on several issues before and after the mid-1984 economic reforms. The scale used was: 1 = less difficult; 2 = about the same; 3 = more difficult. The sample was subdivided into two groups based on the type and extent of strategic planning. The first group consists of 24 firms without formal strategic plans (referred to as the informal planning group). No firm in this group had formal strategic planning processes. The second group, containing 33 firms, had formal strategic planning processes and is called the formal planning group. Based on these groupings, the average responses for the individual factors evaluated are provided in the first two columns of Table IV. The average responses for all firms in the sample are provided in the third column.

The results seem to indicate that those firms that had formal strategic planning processes encountered less difficulty in establishing goals and objectives based on the six factors presented to them in the questionnaire compared to those firms without formal strategic planning processes. With the ex-

Table III. Average Sales (in NZ\$), Percentage of Sales from Exports, Number of Employees, and After-Tax Profits: 1983—1984, 1990—1991.		
	1983—1984	1990—1991
Average Total Sales (NZ\$) Percent of Sales from Exports Number of Employees Average after Tax Profits (NZ\$)	\$47,913,001 24.82 374 \$2,295,138	\$99,016,513 25.39 327 \$9,773,859

ception of determining firm goals/objectives based	significant improvement. Consistent with prior ex-
on cash flow, the average responses on each factor	pectations, firms with formal strategic planning
listed in Table IV is lower in the formal planning	processes seem to have adapted better to the
group than in the informal planning group.	changing economic environment than those with-

Table V. Extent of Improvement Made on Areas of Management by Groups during Economic Liberalization Period.

Informal Group

1.38

1.50

1.50

1.50

1.71

1.04

Table IV. Establishment of Firm's Goals and Objectives before and after Start of Economic Liberalization (Average Responses).

Formal Group

1.92

1.75

1.80

1.96

1.75

1.67

1.81

out formal strategic planning processes based on

the extent of the improvements they made in the

various areas (Table V). The overall average re-

sponse of the formal planning group is higher than

that of the informal planning group. Likewise, the

average responses for each of the areas presented

Formal Group

2.24

2.03

2.03

1.97

1.72

2.10

All Firms

2.13

2.02

2.00

1.96

1.85

1.82

1.96

All Firms

1.85

1.79

1.79

1.75

1.72

1.62

1.60

Informal Group

2.38

2.33

2.23

1.95

1.95

2.00

2.14

Note: Scale used is 1 = less difficult, 2 = about the same, 3 = more difficult.

Respondents were also asked the extent of im-

ment and operations during the economic

liberalization period. The following scale was

used: 0 = no improvement at all; 1 = slight im-

provement; 2 = significant improvement; 3 = very

provements they made in various areas of manage-

Pactor

Minimization of Risk

Profitability

Cash Flow

Area

Quality Control

Technology

Management Info. System

Financial Management

Customer Management

Corporate Planning

Market Position

Overall Average

Value to Consumer

Utilization of Resources

Work Methods and Flows	1.33	1.79	1.58
Labor Relations	1.42	1.69	1.57
Staff Training	1.21	1.83	1.55
Personnel Policies	0.83	1.59	1.25
Management Contract/Incentives	0.88	1.24	1.08
Management Structure	1.17	1.97	1.06
Overall Average	1.29	1.85	1.60

1.29 Note: Scale used is 0 = no improvement at all; 1 = slight improvement; 2 = significant improvement; 3 = very significant improvement.

Average response to all areas considered by all firms in the sample is 1.60. Concluding Remarks

to the respondents are higher in the formal plan-

ning group than in the informal planning group.

Agribusiness firms in New Zealand, over the last decade, have felt the impact of unprecedented environmental uncertainty. One of the management

tools that could be used in an uncertain business

from an exploratory survey, the characteristics of

strategic planning processes of agribusiness firms

in New Zealand during the economic liberalization

period. In particular, some valuable insights were

planning processes actually used by agribusiness

firms before and after the implementation of eco-

planning processes exist in the majority of the firms

studied. In fact, more than half of the firms in the

sample had formal strategic planning processes in

The results of the survey reveal that strategic

gained into the characteristics of the strategic

This study attempted to assess, using results

environment is strategic planning.

nomic reforms.

place. Interestingly, however, only 5 of the 33 firms had started formal strategic processes before the start of the implementation of the economic re-1. J. Havlicek, "Megatrends Affecting Agriculture: Implications for Agricultural Economics," American Journal of

2. J.C. Camillus and D.K. Datta, "Managing Strategic Is-

sues in a Turbulent Environment," Long Range Plan-

3. L.C. Rhyne, "The Relationship of Strategic Planning to

4. M. Leontiades and A. Tezel, "Planning Perceptions and

Financial Performance," Strategic Management Journal,

Agricultural Economics, 68, 1053 (1986).

ning, 24, 67 (1991).

7, 423 (1986).

References 7. T.J. Peters and R.H. Waterman, In Search of Excellence, Harper & Row, New York, 1982. 8. W. Kiechel, III, "Corporate Strategists Under Fire," Fortune 27, 34 (1982). 9. S.S. Thune and R.J. House, "Where Long Range Planning Pays Off," Business Horizons, 13, 81 (1970). 10. D.W. Krager and Z.A. Malik, "Long Range Planning and

ronment.

Planning Results," Strategic Management Journal, 1, 65

poration," Strategic Management Journal, July-September, 235 (1981). 6. T.J. Peters, "The Rational Model Has Led us Astray",

5. R.B. Higgins, "Long Range Planning in the Mature Cor-

Organizational Performance," Long Range Planning, 8, 60 (1975).

11. J.B. Welch, "Strategic Planning Could Improve Your

Share Price," Long Range Planning, 17, 144

12. R.E. Westgren, S.T. Sonka, and K. K. Litzenberg, "Strategic Issue Identification Among Agribusiness Firms," Ag-

forms in mid-1984. It is, therefore, possible that

the dramatic changes that the economic reforms have brought in the business environment could

have been the impetus behind the development of formal strategic planning processes after 1984. The President/CEO and Planning Officer are the

major individuals responsible for the strategic

planning process. Firms with formal strategic

planning processes experienced less difficulty establishing goals and objectives based on prof-

itability, utilization of resources, market position, value to customer, and minimization of risk than

firms without formal strategic planning processes.

also performed better in terms of improving vari-

ous managerial and operational areas than firms

Although based on an exploratory effort, these

results suggest that research relating to strategic

planning and changes in economic environment can generate information of interest to policy

makers and agribusiness managers. Economic re-

forms have made agribusiness decision makers in

strategic planning. This awareness seems to have

helped the firms adopt a strategic orientation and

become proactive to changes in the economic envi-

New Zealand more aware of the importance of

Firms with formal strategic planning processes

without formal strategic planning processes.

ribusiness, 4, 25 (1988). 13. R.P. King and S.T. Sonka, Management Problems of

Farms and Agricultural Firms, Discussion Paper No. 44,

Planning Review, March, 16 (1982). Reproduced with permission of the copyright owner. Further reproduction prohibited without permission. 14. R.M. Nayga, Jr., "New Zealand's Statutory Marketing business Firms," Australasian Agribusiness Review, 1, 58 Boards: Recent Developments and Issues," Agribusiness: (December 1993). An International Journal, 10, 83 (1994). 18. J.C. Camillus, Strategic Planning and Management Con-15. W.D. Dobson and A.N. Rae, "How Agribusiness Retrol, Lexington Books, Lexington, MA, 1986. sponded," in Farming Without Subsidies, R. Sandrey and 19. R.B. Robinson and J.A. Pearce, "The Impact of Formal-R. Revnolds, Eds., MAF, Wellington, New Zealand, 1990. ized Strategic Planning on Financial Performance in 16. D. Hussey, Agricultural Marketing Regulation: Reality Small Organization," Strategic Management Journal, 4,

17. R.M. Nayga, Jr. and L.M. Baga, "Strategic Issue Identi-

fication: An Exploratory Survey of New Zealand Agri-

Versus Doctrine, ACIL Report for the New Zealand Busi-197 (1983). ness Roundtable, October 1992.

Strategic Management Research Center, University of

Minnesota, Minneapolis, MN, 1986.