

Most firms are able to secure needed capi 910390

investment; some Dve experienced severe

problems.

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Minnesota companies appear to be undertaking quality improvement strategies—both through human and capital investments.

Businesses will demand an increasingly skilled labor pool, and there is some concern about shortages of required skills.

THE CHALLENGE TO CHANGE:

Minnesota businesses appraise current conditions, future plans and government roles in the 1990s.

Minnesota's manufacturers view product and technology innovation as increasingly important, and they plan to invest significantly in research and development.

Business groups have intense concerns about the quality and efficiency of primary and secondary schools.

Businesses recommend decreased public spending in most areas but are willing to spend more on programs and services that are important to their business.

Executive Summary

The Challenge to Change:

Minnesota businesses appraise current conditions, future plans and government roles in the 1990s.

Executive Summary

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Number of Surveys Mailed	512	523	507	456	314
Number of Surveys Returned	293	240	240	223	155
Rate of Return	57%	46%	47%	49%	49%

verview and Findings Minnesota's businesses look ahead to the 1990s as a time of growth and change. The change will challenge the way they do business and the services they require of employees, suppliers and government. Their chief concerns center on human resources — the skill and availability of skilled labor and the cost or effectiveness of employee benefit programs. They will demand an increasingly skilled laborforce. Reflecting their concern over the future of the workforce, they see a critical need for improving education especially in primary and secondary schools. Workers' compensation and unemployment insurance levies, together with liability insurance requirements, are perceived as the most burdensome taxes or regulatory impositions. While wishing to hold down the costs of public services, they are willing to pay more for those that benefit them in tangible ways. Quality and productivity improvement strategies are apparent in both human and capital investment. They are actively involved in developing products and seeking technological solutions through research and development (R&D). They are satisfied with the state's physical and capital infrastructure.

These findings are among the results of *The 1990 Minnesota Enterprise Business Survey*. The study was conducted throughout 1990 by the Minnesota Department of Trade and Economic Development. Surveys were distributed to businesses in March and April of 1990. The survey, undertaken to assess business concerns and projected needs for the 1990s, is the most comprehensive business attitudes study undertaken in Minnesota in the past decade. (See Appendix for complete survey.)

Reflecting the major business constituents of the Department, survey samples were drawn from large firms, small to medium-sized fast-growing firms, Greater Minnesota manufacturers, high technology firms, and small-to-medium-sized exporters. More than 2,300 companies in the five groupings returned nearly 1,200 questionnaires, a response rate of almost 50 percent. Table 1 presents the sample size and return rate for the five groups. Samples were selected based on an expected rate of return of 50 percent. Thus, the rate of return allows a 95 percent confidence level that the margin of error of the results is within 5-7 percentage points.

Focus group sessions with company executives from the five groups were used to design the survey questionnaire. The same groups were also brought together after the survey was completed to assist in the interpretation of results.

In the body of this report, findings for each group are presented in considerable detail. The objective in this chapter is to summarize the findings of the survey and to highlight and discuss the major themes that emerged from this effort. Findings and themes are organized into three categories: 1) Current business conditions and issues; 2) Plans for the 1990s; and 3) Impact and role of government. Selected comments gained from business executives during the second set of focus group sessions helped the interpretation of the survey results and are included to illustrate and explain some results.

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Cost	61%	57%	53%	58%	68%
Reliability	91	89	88	84	89
Availability	92	89	93	90	92

Table 3

Importance Ratings of Energy Service Characteristics (percent distribution)

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Cost	68%	71%	68%	57%	72%
Reliability	80	81	83	74	84
Availability	74	78	77	66	80

ajor Themes: Current Issues and Concerns

The 1990 Minnesota Enterprise
Business survey included
questions about current business operating
conditions, including adequacy of
infrastructure, capital access, and laborforce.

MINNESOTA'S BUSINESSES ARE VERY SATISFIED WITH THE STATE'S INFRASTRUCTURE.

Companies in the five groups rated their satisfaction with their energy service systems and with their primary modes of transportation.

Energy

Natural gas is used as the predominant source of heating energy by Minnesota's manufacturers; more than 50 percent of firms in each group reported using it. Among manufacturing firms, electricity is the most-used process energy, followed by natural gas. Satisfaction levels with cost, reliability, and availability of energy systems were very high for all five groups (Table 2). The groups were most satisfied with the energy service characteristics that were also rated as most important — reliability and availability (Table 3). However, a majority of all five groups were also satisfied with the cost of their energy service.

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Truck	60%	52%	55%	53%	60%
Air	15	4	20	17	16
Rail	- 3	8	4	6	12
Barge/Ship	1	5	2	3	2
Freight Services	21	31	19	20	10

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Satisfaction with Transportation Mode (percent rating "satisfied" 3 or 4)

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Truck	89%	93%	91%	92%	96%
Air	87	60	90	91	85
Rail	40	44	44	30	65
Barge/Ship	57	57	56	50	57
Freight Services	80	82	81	83	91

"Upkeep of rural roads is of special importance to firms in rural areas because, often, they supply rural markets and need good roads for access." (Focus group member)

Transportation

Businesses identified and evaluated their primary mode of transportation. Transportation modes included in the survey were truck, air, rail, barge/ship, and commercial freight services. As presented in Table 4, truck transport was the most important mode, with from 52 percent to 60 percent of firms in the five groups identifying it as their primary mode. Freight services were identified as the primary transportation mode used second most often, followed by air transport, rail, and barge/ship.

Levels of satisfaction with transportation service were also quite high. All groups expressed the highest satisfaction with truck service, with 90 percent of each group indicating that they were satisfied or very satisfied. More than 80 percent also reported that they were satisfied with the second most

important mode — freight services. In four of the five groups a majority reported that they were dissatisfied with rail, with from 70 percent to 56 percent reporting that they were dissatisfied with the mode (Table 5).

MOST FIRMS ARE ABLE TO SECURE NEEDED CAPITAL INVESTMENT; SOME HAVE EXPERIENCED SEVERE PROBLEMS.

With the exception of Greater Minnesota firms, roughly two-thirds of the companies in each group sought to obtain capital during the past five years. Small-to-medium-sized growing companies were more likely to have sought capital than the others, but generally the pattern is the same across the groups (Table 6).

Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
78%	58%	63%	64%	64%

Table 7

Level of Difficulty in Securing Capital

Levels	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
1-Low	34%	36%	30%	30%	49%
2	33	28	26	29	30
3	21	19	24	22	14
4-High	12	17	20	19	7

More significantly, the respondents were generally successful in finding capital. Not surprisingly, 79 percent of large firms reported little or no problem getting capital. A majority of each group had a low or moderate level of difficulty securing capital. However, a small but significant proportion of each group reported severe problems finding adequate capital. Of these, the highest share of small-to-medium-sized exporters (20 percent) and high tech firms (19 percent) reported severe problems (Table 7).

These low levels of difficulty may in part be due to the sound financial profile of the sample. Very few are highly leveraged. Nearly half of each group reported a debt-to-equity ratio of 1:1 or less; and almost three-fourths had ratios of less than 2:1. Only 10 percent reported debt-to-equity exceeding 4:1. This profile suggests that those respondents experiencing difficulties may already carry a heavy burden of debt.

Barriers to Funding

Businesses were asked to rate the severity of 12 barriers to obtaining capital. Based on the responses to this question, most barriers were not rated as problematic and the chief roadblocks were high collateral or offsetting deposit requirements; prohibitive costs in the form of interest rates and loan origination fees; and cash flow requirements. Exporters, high technology companies, and small-to-medium growing companies cited the collateral/deposit problem as the most severe; large companies and Greater Minnesota firms cited capital costs as the leading barrier.

Since these areas of friction are, largely, functions of the competition in credit markets, it is instructive to look at other barriers. As presented in Table 8, these include lending limits imposed by banks and local availability of funds. Exporters and high technology firms cite the amount of business control required by equity investors and cash flow requirements as problematic. Lack of knowledge about funding sources and local availability are barriers for some Greater Minnesota companies.

	Small/High	Greater	pa	High	5 0 100
	Growth	Minnesota	Exporters	Technology	Large
Cost	21%	28%	29%	22%	7%
Collateral Requirements	25	29	34	37	14
Lending Limits	20	22	24	20	15
Cash Flow Requirements	18	14	27	23	8
Know Where to Go	10	16	17	14	10
Local Availability	17	20	22	20	11
Risk of Project	10	9	17	17	3
Discrimination	2	1	4	2	a
Return Requirements					
by Equity Investors	12	6	12	10	7
Control Requirements					
by Equity Investors	13	6	28	14	8
Lack of Market for Public Offering	10	8	19	7	11

Table 9 Satisfaction with Sources of Capital (percent "somewhat satisfied" — score of 3 or 4)

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Stock Off	33%	19%	26%	34%	76%
Venture Capital	22	23	26	31	44
Personal Equity	62	46	63	69	50
Retained Earning	57	53	46	55	82
Bond Sale	29	22	40	40	32
Commercial Paper	42	16	35	28	77
Commercial Loan	73	67	62	66	90
Government Loan	41	22	45	25	43
Grant	21	27	15	18	30

Again, it should be noted that the severity of these barriers was reported to be relatively low. No more than one-third of the respondents in each group ranked any single barrier as severe.

Sources and Uses of Capital

Businesses were also asked to rate their satisfaction with various sources of capital. As presented in Table 9, the most commonly used sources — personal equity and commercial loans — were also rated as the most satisfactory source of capital. The proportion of firms reporting that they were satisfied with commercial loans ranged from a high of 90 percent of the large firm group to 62 percent of the exporters group.

Uses	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Working Capital	64%	54%	65%	65%	54%
Inventory	44	56	55	51	24
New Equipment	63	61	60	59	65
R&D Expenses	12	15	29	32	17
Land	20	12	16	13	32
Building	49	36	39	35	47
Extinguish Debt	4	6	20	13	13
Refinance Debt	19	16	24	19	23

"Venture capital is quite difficult to secure in Minnesota, especially if the venture is risky. In such cases, seeking money from outside the state is imperative." (Focus group member)

"Exporters have special problems because lenders are reluctant to include international sales as part of the borrowing base." (Focus group member)

Among private sector sources, venture capital received the lowest satisfaction rating. Only 22 percent to 44 percent of the firms in the five groups rated it as even somewhat satisfactory. Government financing, especially grants, also received low satisfaction scores.

Funds were used primarily for purchasing new equipment, working capital, financing inventories, and purchasing buildings (Table 10). Surprisingly, nearly one-third of exporting and high-technology firms reported using capital for R&D expenses.

Table 11 Impo

Importance of Labor Groups (percent rating "very important")

Groups	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Management	73%	70%	69%	63%	79%
Professional/Scientists/Engineers	25	15	45	43	50
Technical/Skilled	46	34	36	42	48
Clerical/Sales	44	28	24	29	42
Unskilled	14	18	12	12	19

Table 12

Difficulty Recruiting (percent rating "somewhat difficult" — score 3 or 4)

Groups	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Management	63%	61%	68%	64%	59%
Professional/Scientists/Engineers	60	67	66	68	69
Technical/Skilled	61	71	60	53	51
Clerical/Sales	39	35	33	35	29
Unskilled	22	23	15	13	15

Difficulty Retaining

Groups	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Management	30%	39%	38%	33%	23%
Professional/Scientists/Engineers	29	50	33	40	33
Technical/Skilled	36	44	31	38	33
Clerical/Sales	29	24	24	23	26
Unskilled	38	32	29	23	28

MINNESOTA BUSINESSES REPORT DIFFICULTY RECRUITING THE MOST IMPORTANT AND HIGHLY SKILLED LABOR GROUPS, BUT LITTLE PROBLEM RETAINING WORKERS. Businesses in each of the groups rated the importance of, and difficulty in, recruiting and retaining five occupational groups. At least 59 percent of each group reported some difficulty recruiting management — the occupational group rated as most important by all five groups (see Tables 11 and 12).

	Small/High	Greater		High	
Issues	Growth	Minnesota	Exporters	Technology	Large
Rising Labor Costs	56%	55%	48%	47%	39%
Lack of Skills	31	26	21	23	29
Declining Labor Supply	28	18	14	12	30
Drug/AIDS Testing	11	12	7	4	14
Health Benefits	56	47	51	50	53
Parking/Commuting	4	1	2	0	4
Day Care	3	3	3	3	7
Organized Labor	14	12	11	5	19
Work Force Diversity	8	5	3	5	7
Retirement/Pensions	15	14	11	12	13
Alternative Work Schedules	6	6	5	6	4

"Lack of skilled labor prevents selectivity in hiring — with negative consequences for productivity." (Focus group member)

"Relocation of dual worker families is becoming a problem: the spouse of the relocated worker cannot always find appropriate work." (Focus group member)

A vast majority also reported difficulty recruiting the two next most important groups as well. From 60 percent to 69 percent of the firms in the groups reported some difficulty recruiting employees in the professional/scientists group. From 53 percent to 71 percent of the firms in the five groups reported difficulty recruiting skilled and technical workers.

In comparison, a far smaller proportion of firms reported difficulties retaining staff. Nearly two-thirds of firms in all groups reported little difficulty retaining the occupational groups rated most important, and less than 10 percent reported severe difficulty. The one exception is firms in Greater Minnesota, with 50 percent reporting some difficulty retaining professionals and scientists.

COST ISSUES RANK AS THE MOST IMPORTANT PERSONNEL ISSUES IN COMPANY OPERATIONS. LACK OF SKILLS ARE ALSO A CONCERN.

Minnesota's manufacturers viewed the costs of employee health benefits and the rising costs of labor generally as their top-ranking personnel issues at the time of the survey, and they see no relief in the next five years (Table 13). Reflecting this general concern with personnel costs, workers' compensation and unemployment insurance are the government costs cited as having the greatest impact on companies (see further discussion in Role of Government Section).

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Percent Providing Formal Training	81%	61%	73%	74%	96%

(percent rating very important)

Reasons	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Meet Increased Complexity of Jobs	42%	34%	30%	35%	42%
Teach Company Procedures	40	31	25	28	31
Correct Basic Skills Deficit	19	17	15	15	15
Encourage Career Advancement	20	13	18	17	20
Improve Quality/Productivity	67	62	67	53	66
Manage Employee Turnover	24	21	14	13	15
Reduce Absenteeism	13	17	11	9	8
Increase Workplace Safety	40	52	43	30	34

"Health benefits are a major concern, but it is not clear how the state government can address the issue." (Focus group member)

Aside from costs, skill and availability of labor also emerge as significant concerns for firms in all five groups. Other issues, such as drug testing and day care, are not rated as very important.

MINNESOTA COMPANIES APPEAR TO BE UNDERTAKING QUALITY IMPROVEMENT STRATEGIES — BOTH THROUGH HUMAN AND CAPITAL INVESTMENTS. Survey participants identified frequently offered training topics and reasons for offering training. As presented in Table 14, the vast majority of the firms in all of the groups provided formal training and the most common reason given was to improve the quality of goods and services and worker productivity. It is not surprising, then, that the two most frequently offered topics were quality control for manufacturing processes and customer service (see Table 15).

Business participants were also asked to rate the importance of four groups of technologies. The majority of firms rated systems to improve quality/productivity as currently important and three-fourths projected that they will be important to their business in the next five years (see Table 16).

Table 15

Training Topics Covered (percent indicating "often")

•	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Manufacturing					
Processes/Equipment	38%	36%	41%	41%	39%
Engineering/Scientific Technolo		9	19	24	20
Quality Control	47	47	47	47	48
Marketing/Sales					
Customer Service	54	38	40	40	50
International Sales	5	2	5	6	2
Foreign Language	0	0	0	2	0
Marketing/Sales	37	20	22	31	30
Administrative					
Clerical/Office	15	10	12	16	15
Computer Skills	17	19	25	26	27
Managerial					
Strategic Planning	21	21	22	26	25
Supervisory	36	27	32	38	43
General					
Basic Skills	12	11	7	8	7
Communication	23	13	14	17	16
Career Development	6	9	7	10	8
Interpersonal	18	9	16	15	20

Table 16

Importance of Quality Improvement Systems

Percent Reporting Important:	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Currently	65%	56%	70%	69%	82%
In 5 years	78	68	84	80	92

"Whether or not firms are fully committed to the quality movement, the important thing is that they are at least saying that quality is important." (Focus group member)

Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
25%	51%	25%	33%	24%

(percent increasing - score of 3 and 4)

Groups	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Management	70%	57%	61%	68%	65%
Professional/Scientists/Engineers	67	57	74	80	69
Technical/Skilled	82	75	85	86	74
Clerical/Sales	67	43	54	58	47
Unskilled	59	41	58	46	39

"The unskilled worker will become extinct." (Focus group member)

"Lack of skilled workers is becoming a crisis in the state." (Focus group members)

ajor Themes: Issues and Plans for the 1990s

Participants in the survey were asked a series of questions regarding their plans for the 1990s and were asked to identify issues of importance to them in the years ahead. Minnesota's businesses are poised for change and growth in the 1990s. Two-thirds of the companies surveyed will introduce new products and three-fourths will change the basic profiles of their staffing within the next five years. One-half will change transportation modes. Firms in Greater Minnesota appear to be the exception to this pattern, with fewer companies reporting plans for change of any type.

BUSINESSES WILL DEMAND AN INCREASINGLY SKILLED LABOR POOL, AND THERE IS SOME CONCERN ABOUT SHORTAGES OF REQUIRED SKILLS.

Two-thirds to three-fourths of the firms surveyed reported plans to change staffing in the next five years. Greater Minnesota firms were the exception to this, with 51 percent reporting no plans for staffing changes. As presented in Table 17, within the next five years, companies planning changes in staffing are most likely to increase their employment of technically skilled staff (between 74 percent and 86 percent plan to do so); professionals, scientists, and engineers (from 59 percent to 80 percent anticipate increases); and managerial-level people (57 percent to 70 percent will expand this group). In contrast,

Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
64%	53%	83%	82%	78%

Table 19

Importance of Research and Development in Five Years

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Percent Rating "Very Important"	34%	29%	57%	55%	53%

fewer than one-half of the firms in the Greater Minnesota, high technology and large firms groups report plans to add unskilled labor to the payroll.

Clearly the laborforce will become much more technical in the 1990s. Not surprisingly, the highest share of high technology companies expect to add technically trained staff. However, all groups without exception see the trend and expect to respond to it. Management employees rank third on the list of occupations to be increased. With some exceptions clerical/sales and unskilled labor will decline in relative proportion. Although a majority of small-to-medium-sized high growth and exporting companies plan to increase unskilled workers, higher shares plan to increase skilled and professional staff.

This shift up the skill hierarchy is likely to cause skill shortages and strain training institutions. Companies foresee lack of skill to be the most important non-cost personnel issue of the future. Nearly one-third of firms from each business group rate skill shortages as a very important problem to their business in the next five years.

MINNESOTA'S
MANUFACTURERS VIEW
PRODUCT AND
TECHNOLOGICAL
INNOVATION AS
INCREASINGLY IMPORTANT
AND PLAN TO INVEST
SIGNIFICANTLY IN
RESEARCH AND
DEVELOPMENT.

The vast majority of firms from all of the business groups, except Greater Minnesota manufacturers, plan to introduce a new product or service in the 1990s. As displayed in Table 18, from 64 percent of small, fast-growing firms, to more than 80 percent of high technology and exporting firms reported plans to develop a new product or service in the next five years. Only 53 percent of Greater Minnesota firms reported such plans.

Similarly, more than one-half of the companies in the exporters, high technology and large firm groups consider R&D investments as very important to their businesses in five years (Table 19). Small-to-medium growing companies and Greater Minnesota companies see technology as somewhat less central to their enterprises — now and in the future. Only 29 percent of Greater Minnesota firms reported that R&D

	mall/High Growth	Greater Minnesota	Exporters	High Technology	Large
Automation Equipment	47%	40%	49%	40%	57%
Communication Equipment/Systems	44	29	30	31	53
Quality/Productivity Equipment/Syster	ns 46	34	45	40	48
Advanced Materials (Composites)	30	31	34	35	32

"Research and development investment forecasts in the survey may seem high but are likely to turn out to be too low. High tech companies must continuously innovate to stay up with technology." (Focus group member)

"Low reliance on the university as an R&D supplier is surprising. One reason, perhaps, is academic reluctance to engage in the development aspect of research and development." (Focus group member)

"Low levels of research and development and introduction of new products in Greater Minnesota reflects the nature of the typical firm. It is a small shop mass-producing components for other firms." (Focus group member)

will be very important to their business operations in the next five years.

According to survey respondents, the bulk of research, generally more than 80 percent, is performed in-house. Less than 10 percent is conducted by or with academic or government institutions. As R&D investments increase in importance in the next five years, it will continue to be conducted in-house.

Very large majorities in each group plan to increase R&D expenditures over current levels in the next five years. A majority of the

companies in the large, high technology and exporters groups reported that R&D will be very important to them in the next five years. Small, fast-growing companies and Greater Minnesota companies also suggest that innovation will play a much greater role in their operations in the future. Firms in these groups increased their ratings of R&D by 20 percentage points, from "current" importance to importance "in five years."

Surveyed firms not only plan to develop and introduce new products, they also plan to use new technologies in the production and

Table 21 cr

Changes in Transportation

Percent Planning Change	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Truck	50%	41%	46%	45%	46%
Air	67	28	59	66	61
Rail	67	23	59	63	63
Barge	69	19	64	64	66
Freight	67	37	63	63	60

Table 22

Severity of Future Transportation Problems (percent rating "very severe")

,	Small/High	Greater		High	
	Growth	Minnesota	Exporters	Technology	Large
Reduction of Air Service Availability	y 17%	10%	21%	23%	25%
Reduction of Air Service Quality	15	13	19	16	16
Airport Congestion	9	7	16	15	16
Lack of Rail Service	7	16	6	7	9
Deterioration of Roads/Bridges	25	33	29	24	27
Inadequate Shipping Services	25	24	39	27	13
Poor Road Access	25	30	20	16	10
Road Congestion	26	27	17	16	20
Lack of Mass Transit	10	9	2	5	4
Transportation of Hazard Waste	11	11	11	12	10
Increasing Cost	49	44	50	47	35
Reduction in					
Trucking Service Availability	29	39	47	32	22

delivery of goods and services. When asked to rank the importance of four categories of technologies to their business operations in the next five years, at least one-third of businesses in all groups rated them as very important and more than two-thirds rated them as somewhat important. As displayed in Table 20, this pattern held true even for Greater Minnesota manufacturers.

INCREASED DEMAND FOR TRANSPORTATION SERVICES RESULTS IN BUSINESS CONCERNS FOR ROAD AND SERVICE ADEQUACY.

The majority of firms in each business group surveyed, except the Greater Minnesota

group, expect changes in transportation in the next five years. As displayed in Table 21, 60 percent of firms plan changes in air, freight, barge and rail use. The majority of firms planning changes intend to increase use of truck, air and freight services while decreasing use of barge and rail transportation.

Firms also rated the severity of future transportation problems. After cost issues, which always rank high, deteriorating roads and inadequate trucking services were ranked as most severely affecting their business in the next five years as displayed in Table 22. Exporters, high technology firms and large firms also rated reduction of air service availability as problematic. Evidently, Minnesota businesses fear that increasing demands for transportation services in the years ahead may strain current transportation systems.

Impact	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
4 (Very Significant)	61%	60%	55%	53%	59%
3	29	26	32	35	35
2	6	6	7	7	5
1 (No Impact)	4	8	6	5	1

Table 24

Rank of Taxes (rating 1 - 8, 1 equals "highest")

Taxes	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Workers' Compensation	1	1	1	1	1
Unemployment Insurance	3	2	2	2	3
Corporate Income Taxes	2	4	3	3	2
Commercial/Industrial Property Ta	ixes 4	3	4	4	4
Personal Income	5	5	5	5	5
Residential Property	7	7	6	7	7
Sales Taxes	6	6	7	6	6
R&D Tax Credit	8	8	8	8	8

"Government should recognize that Minnesota businesses are increasingly playing in an international marketplace; they need a level playing field." (Focus group member)

ajor Themes: Impact and Role of Government

Many business climate studies, including the 1990 Minnesota Enterprise Business Survey, ask businesses to report on the impact of tax costs and regulations on their business operations. The Enterprise Survey is unique, however, because it also attempts to evaluate the quality of government technical assistance and to understand businesses' priorities for government services and recommendations for government spending.

MINNESOTA COMPANIES
VIEW TAXES AND OTHER
IMPOSED COSTS AS
HAVING A MAJOR IMPACT
ON OPERATING COSTS.
WORKERS' COMPENSATION
LEADS THE LIST.

The majority of Minnesota businesses surveyed in each of the groups rated taxes and other governmentally-imposed costs as having a very significant impact on the costs of doing business (Table 23).

In order to differentiate among various taxes and government costs, businesses ranked the impact of eight separate taxes for their impact

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Pollution Control Regulations					
Air Pollution	15%	22%	12%	22%	21%
Water Pollution	14	25	15	27	23
Toxic Waste	14	¹ 18	18	29	19
Solid Waste	25	27	20	28	27
Employment Regulations					
Hiring and Selection	21	19	12	16	33
Hours and Wage	27	24	15	13	20
Civil Rights	10	8	6	6	22
Health and Safety	20	38	21	37	26
Liability Insurance	48	48	45	46	28

on their operations. Workers' compensation ranked highest by far — with every group ranking this category as having the most impact. Unemployment insurance levies were ranked second by three groups: Greater Minnesota firms, high technology firms and exporting companies. The corporate income tax ranked second for the small, high-growth firms and large firms groups (Table 24).

Somewhat surprisingly, personal income taxes, which have received sharp criticism from business groups, ranked fifth. This was especially surprising given the difficulty reported in attracting management and skilled employees. One reason reported by the survey respondents for recruiting difficulties is high personal income taxes in Minnesota.

POLLUTION CONTROL AND EMPLOYMENT REGULATIONS ARE NOT PERCEIVED AS HIGHLY BURDENSOME.

The surveyed companies rated the impact of regulations — specifically, pollution control, employment and liability insurance regulations — on the successful operation of their businesses. Only a minority of businesses rated regulatory programs as having a significant or very significant impact. With the exception of liability insurance,

far smaller proportions of firms rated these regulations as having a very significant impact than taxes and regulations as a whole, as displayed in Table 25. Employment regulations and product liability insurance were perceived as more burdensome than environmental compliance.

Pollution Control Regulation

The most significant impact from pollution control regulations reported by the companies in all groups was solid waste management. As presented in Table 25, roughly one-quarter of the firms from each group rated it as very significant, most likely because it touches the majority of operations and is a frequently encountered, recurring cost. Other pollution control regulations were rated similarly, with from 14 percent to 25 percent of firms rating their impact as very significant and less than 50 percent typically rating their impact as even somewhat significant (score of 3 and 4).

As presented in Table 26, technical assistance support from government for help in complying with pollution regulation was generally rated fair to poor by the majority of firms. No significant differences between programs (air, water, etc.) appeared, suggesting general difficulties in dealing with regulatory agencies. Large firms gave technical assistance far better ratings than the other groups, with a majority rating all programs good or excellent.

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Pollution Control Regulations					
Air Pollution	32%	39%	40%	40%	63%
Water Pollution	36	49	50	42	61
Toxic Waste	40	42	51	41	55
Solid Waste	35	45	45	39	57
Employment Regulations					
Hiring and Selection	37	39	41	37	59
Hours and Wage	42	45	47	35	65
Civil Rights	35	43	40	33	57
Health and Safety	45	61	48	42	69
Liability Insurance	43	51	40	34	62

"The computer industry has serious disposal problems. Survey results do not adequately reflect this fact." (Focus group member)

"OSHA is a reformed operation and very helpful — service and client oriented." (Focus group member)

Employment Regulation

The survey also investigated the impact of four programs that regulate employment standards. Of these, the program with the most significant impact was occupational health and safety standards (OSHA) with from 20 to 38 percent rating the impact as very high. Large firms reported hiring and selection regulations to be the most burdensome of all regulations.

On the whole, employment regulations were viewed as having somewhat more impact than rules associated with pollution control. In light of the companies' strongly-expressed concerns over the employment issue — availability, cost, skills, etc. — this result is not surprising.

Companies rated technical assistance available in each of the areas in roughly the same way as they rated compliance assistance received in the pollution area (Table 26). The OSHA program stands out, with 69 percent of large firms and 61 percent of Greater Minnesota firms rating technical assistance as good or excellent. This finding is especially notable given the high impact these particular regulations are reported to have on business operations.

Liability Insurance

Liability insurance requirements were rated as the most burdensome regulatory issues by far by four of the five groups. More than 40 percent of firms rated the impact of these requirements as "very significant" in the small, fast-growing, Greater Minnesota, high technology and exporters groups.

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
In-House	82%	77%	70%	68%	82%
Vo-Tech Education	58	51	67	44	55
University/College	59	53	67	46	56
Primary/Secondary (Basic Skills)	41	67	45	27	42

"The education system is not teaching the appropriate skills. Emphasis on soft subjects or irrelevant vocational specialties does not prepare students well for the workplace." (Focus group member)

Surprisingly, only 28 percent of large firms rated this area as having significant impact on their operations. Technical assistance for this area is not highly rated, with as few as one-third of the high technology group rating it as good or excellent (see Table 26).

BUSINESS GROUPS HAVE INTENSE CONCERNS ABOUT THE QUALITY AND EFFICIENCY OF PRIMARY AND SECONDARY SCHOOLS.

Aside from in-house training programs, Minnesota companies consider primary and secondary schools as the most important source of formal training — and are also least satisfied with the performance of this segment of the educational establishment. Other public institutions — vocational schools, community colleges and universities — were all rated as more satisfactory than the primary/secondary education system. For example, only 27 percent of high technology firms rated primary/secondary institutions as even somewhat satisfactory. Greater Minnesota companies were more satisfied with their elementary and high schools than the other groups (Table 27).

The reasons for corporate dissatisfaction with the primary and secondary education system are not clear. For example, when asked why they provided training, the response "Correction of Basic Skills Deficits" was rated relatively low, ranking sixth of the eight reasons listed. Furthermore, among the training topics they offer most frequently, the topic "Improvement of Basic Skills" ranked among the lowest now, and also for the future.

As will be discussed below in detail, the firms in the survey consider primary and secondary education to be the most important service of government and are willing to spend more money on these services. Low satisfaction with a government function considered to be so important by the business respondents suggests serious deficits in the current system.

BUSINESSES RECOMMEND
DECREASED PUBLIC
SPENDING IN MOST AREAS
BUT ARE WILLING TO
SPEND MORE ON
PROGRAMS AND SERVICES
THAT ARE IMPORTANT TO
THEIR BUSINESS.

Drawing from categories listed in the United States Department of Commerce publication Government Finances, exporters were asked to rate the importance of, and recommend spending changes for, 19

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Education					
Elementary/Secondary	69%	59%	63%	57%	67%
Higher Education	49	39	47	52	58
Libraries	26	14	20	22	15
Social Services					
Public Welfare	10	8	7	8	7
Hospitals	18	16	14	24	22
Health	21	25	21	28	28
Employment Security	13	12	10	9	7
Transportation					
Highway	34	44	34	35	37
Air	16	6	23	27	26
Water	3	4	3	4	5
Public Safety					
Police Protection	26	24	29	25	31
Fire Protection	28	35	37	32	40
Corrections	11	9	14	15	10
Protective Regulations	8	8	7	9	9
Environment and Housing					
Natural Resources	22	27	19	22	21
Parks & Recreation	16	15	11	16	19
Housing and					••
CommunityDevelopment	13	14	9	11	16
Sewerage	14	19	14	17	17
Other Sanitation	10	17	11	16	10

"Willingness to spend more is a function of the objective and the benefit it may bring. Reluctance to spend more reflects doubt about effectiveness — either of the policy or its execution." (Focus group member)

government service categories. The survey provided both United States and Minnesota expenditures per capita for all 19 categories to allow comparisons of current spending levels.

As shown in Table 28, a majority of Minnesota companies in all five groups rated elementary and secondary education as the most important public sector activity, with roughly 60 percent rating it very important. Next in importance came higher education with between 40 percent and 50 percent of

firms in each group rating it very important, followed by highway construction/maintenance and fire and police protection. Roughly one-quarter of firms rated public health services and natural resource development as very important as well.

Government services rated least important were water transportation, employment security and public welfare programs, each with 5 percent or less of firms rating them as very important to their operations.

	Small/High Growth	Greater Minnesota	Exporters	High Technology	Large
Education					
Elementary/Secondary	66%	56%	63%	58%	65%
Higher Education	60	51	55	57	59
Libraries	41	32	40	43	35
Social Services			_		4.4
Public Welfare	7	, 9	7	11	11
Hospitals	32	32	25	30	30
Health	44	39	41	45	45
Employment Security	13	19	16	13	13
Transportation				F.0	56
Highway	58	63	58	56	
Air	32	21	39	40	40
Water	8	14	10	9	9
Public Safety					r-7
Police Protection	53	51	56	54	57 50
Fire Protection	51	52	53	56	59
Corrections	33	31	34	36	32
Protective Regulations	18	20	18	20	20
Environment and Housing					47
Natural Resources	49	42	51	40	47
Parks and Recreation	42	33	40	36	33
Housing and				_	0.4
Community Development	29	31	24	6	24
Sewerage	36	46	36	8	39
Other Sanitation	38	54	37	8	37

As displayed in Table 29, the majority of companies recommended less public spending on most of the programs listed in the survey. However, a majority was willing to spend at least slightly more on those programs they rated as the most important to their business operations: elementary and secondary education, higher education, highways, and police and fire protection. Together, these

programs accounted for 40 percent of all state spending in 1988. Forty percent or more of the firms in each group also recommended somewhat increased spending on natural resource development and health care. Very small proportions of firms, generally less than 20 percent, recommended significantly increased spending, with a rating of 4, on any government service, even education.

onclusion

Minnesota firms in key groups
appear to find the state a good
place to conduct business in terms
of the physical and capital
infrastructure. They report some difficulty
recruiting key, specialized personnel but little
problem retaining them. They are attempting

recruiting key, specialized personnel but little problem retaining them. They are attempting to improve the quality of their goods and services.

They look to the future as a time of growth and appear to be planning for, and even embracing, change — in staffing, in product development and in technological innovation. Firms in Greater Minnesota do not report plans to change to the same extent planned by firms in the other groups.

Firms are planning increased employment in skilled and professional occupations, relative to unskilled groups. This shift up the skill hierarchy may strain existing training institutions and firms are concerned about skill shortages.

The overall cost of government is considered burdensome and firms do not support increased government activity in general. Their responses suggest a view of government as laying the foundation that enables business to operate, rather than an activist to influence business decisions.

However, they perceive government playing an important role in providing basic public services, maintaining the infrastructure and educating the workforce, and they are willing to pay for those services.

Appendix:

The Minnesota Enterprise 1990 Survey of Business

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THE MINNESOTA ENTERPRISE 1990 SURVEY OF BUSINESS

BACKGROUND INFORMATION

1.	How many years has your compa	ny been in business? years	
2.	What type of company is your factories. Independent U.S. headquarters of a multi-locatic and the second s	on company . company	_
3.		vice and its SIC Code classification (if known)?	
	SIC Code		
4.	How many people does your com		
	Minnesota (Circle one)	Worldwide, incluing Minnesota (Circle one) 1. Fewer than 20	
	 Fewer than 20 20 to 99 	2. 20 to 99	
	3. 100 to 499	3. 100 to 499	
	4. 500 or more	4. 500 or more	
5.	In 1988, what were your company		
		r Assets Managed	
	 Less than \$0.5 million \$0.5 million to \$0.9 million 	 Less than \$25 million \$25 million to \$49.9 million 	
	3. \$1 million to \$4.9 million	3. \$50 million to \$74.9 million	
	4. \$5 million to \$24.9 million	4. \$75 million to \$99.9 million	
	5. \$25 million to \$99.9 million	5. \$100 million to \$249.9 million	
	6. \$100 million to \$249.9 million	6. More than \$250 million	
	7. More than \$250 million		
6.		Please indicate the approximate percentage:	
	% Local (Minnesota)		
	% Regional (Midwest)		
	% National % International		
	100 % Total		<u> </u>
FI	TC		
7.		oreign countries do you plan to export in the next	
	five years?		
	YesNo		

LABOR AVAILABILITY AND COSTS

8.	Is your business	labor intensive o	r capital intensive?	(Circle appropiate number.	.)
----	------------------	-------------------	----------------------	----------------------------	----

Labor			Capital
Intensive			Intensive
1	2	3	4

9. Indicate the importance of the following occupational groups in your business. (Circle appropriate numbers.)

	Not			Very
•	Importan	ıt	1	mportant
Management	1	2	3	4
Professionals/Scientists & Engineers	1	2	3	4
Technical/Skilled	1	2	3	4
Clerical/Sales	1	2	3	4
Unskilled	1	2	3	4

10. How difficult is it to recruit and retain staff with appropriate training and experience? (Circle appropriate numbers and rate only those categories which apply.)

` 11 1		Rec	ruit			Rei	ain	
	Easy			Difficult	Easy			Difficult
Management	1	2	3	4	1	2	3	4
Professionals/								
Scientists & Engineers	1	2	3	4	1	2	3	4
Technical/Skilled	1	2	3	4	1	2	3	4
Clerical/Sales	1	2	3	4	1	2	3	4
Unskilled	1	2	3	4	1	2	3	4

11. If it is difficult to recruit or retain employees, how important are the following reasons: (Circle appropriate numbers.)

•	11 1		Recri	uiting		Retaining				
		Not			Very	Not		Very		
		Importan	ıt		Important	Importan	ı <i>t</i>	I_i	mportant	
Cost of Labor		1	2	3	4	1	2	3	4	
Lack of Skills		1	2	3	4	1	2	3	4	
Labor Shortage		1	2	3	4	1	2	3	4	
Personal Taxes		1	2	3	4	1	2	3	4	
Climate-Weather		1	2	3	4	1	2	3	4	
Other	B-0-000	1	2	3	4	1	2	3	4	
(Explain)										

12. Indicate any changes in staffing you plan in the next five years.

(Circle appropriate numbers and rate only those categories which apply.)

No Changes Planned	Decreas Significan	-		Increase gnificant	
Management	1	2	3	4	
Professionals/Scientists & Engineers	1	2	3	4	
Technical/Skilled	1	2	3	4	
Clerical	1	2	3	4	
Unskilled	1	2	3	4	

13. How important are the following personnel issues to your company and employees now and how important do you expect them to be in five years? (Circle appropriate numbers.)

() - I - I - I - I - I - I - I - I - I -	,	Cur	rently		In Five Years				
	Not		Very		Not		Very		
	Important		1	Important	Important		I	mportant	
Rising Labor Costs	1	2	3	4	1	2	3	4	
Lack of Appropriate Skills	1	2	3	4	1	2	3	4	
Declining Labor Supply	1	2	3	4	1	2	3	4	
Drug/AIDS Testing	1	2	3	4	1	2	3	4	
Employee Health Benefits	1	2	3	4	1	2	3	4	
Employee Parking/Commutin	ng 1	2	3	4	1	2	3	4	
Day Care	1	2	3	4	1	2	3	4	
Organized Labor Issues	1	2	3	4	1	2	3	4	
Work Force Diversity	1	2	3	4	1	2	3	4	
Retirement/Pension	1	2	3	4	1	2	3	4	
Flexible/Alternative									
Work Schedule	1	2	3	4	1	2	3	4	
Other Issues									
	1	2	3	4	1	2	3	4	
	1	2	3	4	1	2	3	4	

EMPLOYEE TRAINING

14. How much formal training (i.e. training that is professionally designed and conducted for or by your company) do you provide now compared to five years ago? (Circle appropriate number.)

No Formal				
Training	less	same	more	much more
	1	2	3	4

IF you indicated "No Formal Training" go to question 19.

15. How important are the following sources of **formal** training to your company, and how satisfied are you with the results of the training in terms of employee performance? (Circle appropriate numbers.)

s. <i>)</i>								
	Impor	rtance		Satisfaction				
Not			Very	Not			Very	
nportai	nt	I	mportant	Satisfied		,	Satisfied	
1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
: 1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
1	2	3	4	1	2	3	4	
	Not nportai 1	Not portant 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Importance Not nportant 1 2 3	Importance	Importance Not Very Not Satisfied	Not Very Not proportant Important Satisfied 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2 1 2 3 4 1 2	Importance Satisfaction Not Very Not inportant Important Satisfied 1 2 3 4 1 2 3 1 2 3 4 1 2 3 1 2 3 4 1 2 3 1 2 3 4 1 2 3 1 2 3 4 1 2 3 1 2 3 4 1 2 3 1 2 3 4 1 2 3	

16. What topics are most frequently covered in your company's training programs? (Circle appropriate numbers and rate only those categories which apply.)

	Never			Often
Manufacturing				•
Processes/Equipment				
(including computer skills)	1	2	3	4
Engineering/Scientific Techniques	1	2	3	4
Quality Improvement/Control	1	2	3	4
Marketing/Sales				
Customer Service	1	2	3	4
International Skills				
(customs regulations, etc.)	1	2	3	4
Foreign Languages	1	2	3	4
Marketing/Sales Techniques	1	2	3	4
Administrative				
Clerical/Office Skills	1	2	3	4
Computer Skills for				
Administrative Functions	1	2	3	4
Managerial				
Strategic Planning	1	2	3	4
Supervisory/Leadership Techniques	: 1	2	3	4
General				
Basic Skills (reading, writing, math)) 1	2	3	4
Communications Skills	1	2	3	4
Career Development	1	2	3	4
Interpersonal/Personal skills	1	2	3	4

17. Why do you provide formal training? (Circle appropriate numbers.)

	Not			Very
	Important			Important
Meet increased technical				
complexity of jobs	1	2	3	4
Teach company procedures	1	2	3	4
Correct basic skills deficit	1	2	3	4
Encourage career advancement	1	2	3	4
Improve productivity/quality	1	2	3	4
Manage employee turnover	1	2	3	4
Reduce absenteeism	1	2	3	4
Increase workplace safety	1	2	3	4
Other	1	2	3	4

18. In the coming five years please indicate how important each of the following types of training will be for your company's economic growth.

(Circle appropriate numbers and rate only those categories which apply.)

Not	•	`	Very
Importar	nt	1	mportant
1	2	3	4
es 1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
1	2	3	4
ues 1	2	3	4
ath) 1	2	3	4
1	2	3	4
1	2	3	4
	Important I	Important 1	Important 1 2 3

IMPACT OF TAXES AND REGULATIONS

19. What overall impact do state business taxes and regulations have on your business operating costs? (Circle appropriate number.)

No Impact Impact
1 2 3 4

If you circled "1" please go to question 23.

	of your business (one through	eignt, wn		csij.				
	W. 1 1 G		Rank					
	Worker's Compensation							
	Unemployment Insurance							
	Corporate Income Taxes		W000 (1000000000000000000000000000000000					
	Sales Taxes							
	Commercial/Industrial Property Tr		-					
	Research & Development Tax Cre	dit	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					_
	Personal Income Taxes							_
	Residential Property Tax		Non-contract and the second					_
	Other (explain)							-
21.	Rate the impact of the following	ng regula		cessfu	~	*	isiness.	
	Patterior Control Paradatana	DI/A	No		ve	ry Significant		
	Pollution Control Regulations	N/A	Impaci		2	Impact		
	Air Pollution	-	1	2	3	4		
	Water Pollution		1	2	3	4		
	Toxic Waste		1	2	3	4		
	Solid Waste		1	2	3	4		
	Other (explain)		1	2	3	4		
			No		Ve	ry Significant		
	Employment Regulations		Impaci			Impact		
	Hiring and Selection Practices	3	1	2	3	4		
	Hours and Wage Regulations		1	2	3	4		
	Civil Rights (Discrimination)		1	2	3	4		
	Health and Safety Standards (OSHA)	1	2	3	4		
	T ! 1 '1', T		1	$\bar{2}$	3	4		_
	Other (explain)		1	$\overline{2}$	3	4		_
	Other (explain)		i	$\frac{2}{2}$	3	4		_
逐	If no impact, go to question	23.						
123 22.			available to he	p you	comp	ply with the		
	Rate the quality of technical a		available to he	p you	comp	oly with the		
	Rate the quality of technical a following regulations.	ssistance		p you	comp	•		
	Rate the quality of technical a following regulations. Pollution Control Regulations		Poor		•	Excellent		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution	ssistance		2	3	Excellent 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution	ssistance	<i>Poor</i> 1 1	2 2	3 3	Excellent 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste	ssistance	<i>Poor</i> 1 1 1	2 2 2	3 3 3	Excellent 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste	ssistance : N/A —— ——	<i>Poor</i> 1 1 1 1 1	2 2 2 2	3 3 3 3	Excellent 4 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste	ssistance : N/A —— ——	<i>Poor</i> 1 1 1	2 2 2	3 3 3	Excellent 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain)	ssistance : N/A —— ——	<i>Poor</i> 1 1 1 1 1	2 2 2 2	3 3 3 3	Excellent 4 4 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations	ssistance : N/A —— —— —— ——	Poor 1 1 1 1 1	2 2 2 2	3 3 3 3	Excellent 4 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations Hiring and Selection Practices	ssistance : N/A —— —— —— ——	Poor 1 1 1 1 1	2 2 2 2 2 2	3 3 3 3 3	Excellent 4 4 4 4 4 4 Excellent		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations Hiring and Selection Practices Hours and Wage Regulations	ssistance : N/A —— —— —— ——	Poor 1 1 1 1 1	2 2 2 2 2 2 2	3 3 3 3 3 3	Excellent 4 4 4 4 4 4 Excellent 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations Hiring and Selection Practices Hours and Wage Regulations Civil Rights (Discrimination)	ssistance : NIA	Poor 1 1 1 1 1	2 2 2 2 2 2 2 2	3 3 3 3 3 3 3	Excellent 4 4 4 4 4 4 Excellent 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations Hiring and Selection Practices Hours and Wage Regulations Civil Rights (Discrimination) Health and Safety Standards (ssistance : NIA	Poor 1 1 1 1 1	2 2 2 2 2 2 2 2 2 2 2	3 3 3 3 3 3 3 3	Excellent 4 4 4 4 4 Excellent 4 4 4		
	Rate the quality of technical a following regulations. Pollution Control Regulations Air Pollution Water Pollution Toxic Waste Solid Waste Other (explain) Employment Regulations Hiring and Selection Practices Hours and Wage Regulations Civil Rights (Discrimination)	ssistance a	Poor 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 2 2 2 2 2 2 2	3 3 3 3 3 3 3	Excellent 4 4 4 4 4 Excellent 4 4		

23. Rate the importance of the following state and local government services and programs to the successful operation of your business. Please also rate your perception of the appropriateness of the level of expenditure on those services based on the per capita expenditure data provided below. (Circle appropriate numbers.)

1	<i>Importance</i>				Cost	•••	Spending				
	Not			Very A		verage	Spend			Spend	
	Importe	ant	I	nportant		enditures	Less			$\hat{M}ore$	
Education					MN	U.S.					
Elementary/Secondary	1	2	3	4	\$ 799	\$ 690	1	2	3	4	
Higher Education	1	2	3	4	327	255	1	2	3 3	4	
Libraries	1	2	3	4	16	14	1	2	3	4	
Social Services and											
Income Maintenanco	•										
Public Welfare	1	2	3	4	497	362	1	2	3	4	
Hospitals	1	2	3	4	211	177	1	2	3	4	
Health	1	2	3	4	73	75	1	2	3	4	
Employment Security	1	2	3	4	19	12	1	2	3	4	
Transportation											
Highway	1	2	3	4	330	226	1	2	3	4	
Air Transportation	1	2	3	4	16	22	1	2	3	4	
Water Transport	1	2	3	4	26	7	1	2	3	4	
Public Safety											
Police Protection	1	2	3	4	89	107	1	2	3	4	
Fire Protection	1	2	3	4	31	48	1	2	3	4	
Corrections	1	2	3	4	53	77	1	2	3	4	
Protective Regulation	1	2	3	4	16	19	1	2	3	4	
Environment and Housi	ng										
Natural Resources	1	2	3	4	62	42	1	2	3	4	
Parks & Recreation	1	2	3	4	71	49	1	2	3	4	
Housing & Community											
Development	1	2	3	4	80	54	1	2	3	4	
Sewerage	1	2	3	4	67	66	1	2	3	4	
Other Sanitation	1	2	3	4	18	30	1	2	3	4	
TOTAL					\$3,932	\$3,365					

Source: Government Finances in 1987-1988 U.S. Department of Commerce, Bureau of the Census.

FINANCE ISSUES

24.	Has your company sought investment and/or working capital in the past five years?YesNo

IF no, go to question 29.

If yes, rate your company's difficulty in getting the capital:

Level of Difficulty
Low High
1 2 3 4

25. Rate your satisfaction with the primary sources of investment and/or working capital for your company in the past five years. (Circle appropriate numbers.) Please indicate if these sources were local or out of state. (Check Minnesota or Non-Minnesota where appropriate.)

					50	urce	
	Level of Satisfaction			tion	Location		
Type/Source	Low			High	MN	Non-MN	
Stock Offering	1	2	3	4			
Venture Capital	1	2	3	4			
Personal Equity	1	2	3	4			
Retained Earnings	1	2	3	4			
Bond Sale	1	2	3	4			
Commercial Paper	1	2	3	4	****		
Commercial Loan	1	2	3	4	***************************************		
Government Loan	1	2	3	4			
Grant	1	2	3	4			
Other	1	2	3	4			

26. Rate any barriers your company has faced in obtaining investment and/or working capital in the past five years. (Circle appropriate numbers.)

Level of Barrier

		Level 0	y warri	ier
Barrier	Low			High
Cost (interest rates and loan origination fees)	1	2	3	4
Collateral Requirements and/or				
Offsetting Deposit Requirements	1	2	3	4
Lending Limits	1	2	3	4
Cash Flow Requirements	1	2	3	4
Knowing Where to Go	1	2	3	4
Local Availability	1	2	3	4
Risk of Project	1	2	3	4
Discrimination	1	2	3	4
Amount and Timing of				
Return Required by Equity Investors	1	2	3	4
Amount of Business Control Required by Equity Investors	1	2	3	4
Lack of Market for Public Offering	1	2	3	4
Cost of Public Offering,				
Limited Offering or Private Placement	1	2	3	4
Other	1	2	3	4
None of the Above				

27. What uses did the company make of the capital it raised? (Circle each number that applies.)

- 1. Inventory
- 2. Acquisition or Improvement of Land
- 3. Acquisition or Improvement of Buildings
- 4. Acquisition of New Equipment
- 5. Research and Development Expenses
- 6. Extinguish Existing Debt
- 7. Refinance Existing Debt
- 8. Working Capital (to include uses for basic operations, rent, leases, salaries and wages, costs of goods, marketing and the like).

		_	•	_	•	
^	0.1					
u	()ther					
<i>,</i>						

28.	If your company rai (Circle the number of the company) 1. Cash or Cash Equation 2. A Secured Interes 3. Inventory 4. Accounts Received 5. Other	that applies ivalents t in Hard Ass ible	s for your	largest Ioa uipment, bu	n.) ildings)	s that loan	secured by:	
29.	What is the present: 1. Less than 1:1 2. More than 1:1, bu 3. Between 2:1 and 4 4. More than 4:1	t less than 2:		in your c	ompany? (C	Circle one)		- - - -
30.	How many non-trad 1. One 2. Two - Four 3. Four - Six 4. more than Six	e secured c	reditors d	oes the co	mpany have	? (Circle o	one)	- - -
	Ef If energy costs are a go to question 33.				ORTATIO		ions,	
31.	Identify your compact (Check one in each of the control of the con	olumn that	applies to Heati	o your bus ng Pro 	d process en iness.) cessing	ergy sour	ce.	
32.	Cost Reliability	and your sa umber.) Im Not Important 1 2 1 2	ntisfaction portance Im 3 3	with your Very portant 4	Sa Not Satisfied 1 2 1 2	stisfaction 2 3 2 3	rivce. Very Satisfied 4 4	
	Availability (sufficient)	1 2	3	4	1 2	2 3	4	

33. How important is transportation of products in the operation of your business? (Circle one number.)

Not		Very		
Important	t	I	mportant	
1	2	3	4	

If you circled "1" go to question 37.

34. Select the **primary** mode of transportation used by your business for shipments of your product. Indicate your level of satisfaction with the selected mode of transportation. (Check mode and circle satisfaction level.)

	Not			Very
Mode	Satisfied		i.	Satisfied
Truck	1	2	3	4
Air	1	2	3	4
Rail	1	2	3	4
Barge/Ship	1	2	3	4
Freight Services	1	2	3	4

35. Below is a list of transportation characteristics. Indicate the **importance** of each characteristic to your company as well as your current level of **satisfaction** with it. (Circle appropriate numbers.)

		<i>Importance</i>			Satisfaction			
	Not	_		Very	Not			Very
	Importan	ıt	1	mportant	Satisfied			Satisfied
Speed	1	2	3	4	1	2	3	4
Cost	1	2	3	4	1	2	3	4
Frequency	1	2	3	4	1	2	3	4
Reliability	1	2	3	4	1	2	3	4
Traceability	1	2	3	4	1	2	3	4
Safety	1	2	3	4	1	2	3	4
Quality of Service	1	2	3	4	1	2	3	4
Preferred Mode Unav	ailable 1	2	3	4	1	2	3	4
Other	1	2	3	4	1	2	3	4

36. What major changes in your use of transportation modes do you expect in the next five years? (Check those that apply.)

-	No	Decrea	Increase			
	Change	Significa	ntly	Sig	nificar	ıtly
Truck		1	2	3	4	
Air		1	2	3	4	
Rail		1	2	3	4	
Barge/Ship		1	2	3	4	
Freight Services		1	2	3	4	

37. Is business travel an important element in the operation of your business? (Circle one number.)

Not			Very
Importa	nt	Ii	mportant
1	2	3	4

IF you circled "1" go to question 40.

							Reason						
	Not					Very					Service		
		'atisfied			Satis			Cost	Reliability	Speed	Availability		
	Air	1	2	3	4				Samuelean		WANTAMONIMAA		
	Automobile	1	2	3	4						-		
	Ac a hucinaci	a what	- two sa a	nanta	ion :	arabla	200 XX	III inh	ihie mana a		!a a		
, I make the second of the sec													
next five years? (Rate only those that apply to your business.) None Expected Severity of Problem													
None Expected						everity							
				Not			Very						
	Data.	c				Severe		,	Severe				
	Reduction of Air Service Availability												
					··.	1	2	3	4				
	Reduction			e Qual	iity	1	2	3	4				
	Airport C					1	2	3	4				
	Lack of R					1	2	3	4				
	Deteriora				ges	1	2	3	4				
	Inadequa			rvices		1	2	3	4				
	Poor Roa					1	2	3	4				
	Road Cor					1	2	3	4				
	Lack of M					1	2	3	4				
	Problems			1 7									
		dous M	aterials	s and V	Vaste		2	3	4				
	Increasing		. 1			1	2	3	4				
	Reduction in Trucking Service Availability Other (specify)				4			•					
					l	2	3	4					
					1	2	3	4					
				TE	СН	INOL	OG'	Y AI	J D				
	RES	EAR	CH A						IT INVE	STME	ENTS		
	Do you plan (to intro	oduce _No	a nev	v pro	oduct o	or ser	vice i	n the next	five ye	ars?		
	How important are R&D investments to the success of your business operations now and in the next five years?												
	Curr								I	n Five Y	vears ears		
				Not									
			No Impo				Very nporta		Not		Very		

IF you circled "1" go to question 43.

	Primary Method		In Five Decrease			Increase				
	(Check One)	Sign	Significantly			Significantly				
	In-house/internal Subcontract or venture w	ith other	firme				1 1	2 2	3 3	4 4
	Subcontract or venture w			stitution			1	2	3	4
	Subcontract or venture w						1	2	3	4
43.	±									iess
	operations now and in the	ropria								
		Curi	rently	In Five						
		Not		,	Very		Not		,	Very
	Equipment for more fully automating your production process (e.g. computer			ı	mportant	Im	portar			mportant
	integrated manufacturing, e Equipment/systems for communication of informati		2	3	4		1	2	3	4
	(data, voice or visual) Other equipment/systems to improve quality or	. 1	2	3	4		1	2	3	4
	productivity (e.g. computer aided design, etc.) Advanced materials to	1	2	, 3	4	7, - x	1	2	3	4
	improve product or process (e.g. composites, etc.)	ses 1	2	3	4		1	2	3	4
44.	Please discuss any other s planned for the 1990's:				OMMEN		s oper	ations	you h	ave
Mai	il to: Minnesota Enterprise Department of Trade 900 American Cente 150 East Kellogg Bo St. Paul, Minnesota 5	and Ed r Buildi ulevard	onom				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Please send me a copy of the final results.