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McClung, Jacquetta J. Parker

A STUDY OF FEMALE BUSINESS OWNERS IN OKLAHOMA AND THE ASSOCIATION BETWEEN SPECIFIED ENTREPRENEURIAL Characteristics and financial performance based on the STRATEGIC PROFIT MODEL

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## THE UNIVERSITY OF OKLAHOMA graduate college

# A STUDY OF FEMALE bUSINESS OWNERS IN OKLAHOMA AND THE ASSOCIATION BETWEEN SPECIFIED ENTREPRENEURIAL CHARACTERISTICS AND FINANCIAL PERFORMANCE BASED ON THE STRATEGIC PROFIT MODEL 

A DISSERTATION
SUBMITTED TO THE GRADUATE FACULTY in partial fulfillment of the requirements of the
degree of
DOCTOR OF PHILOSOPHY

By
JACQUETTA PARKER MCCLUNG
1985

## A STUDY OF Female business Owners in oklithoma

## and the association between specified

## ENTREPRENEURIAL CHARACTERISTICS AND FINANCIAL PERFORMANCE

based on the strategic profit model
A DISSERTATION
APPROVED FOR THE DEPARTMENT OF MARKETING


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1985

For
Carlyon, Patrick, Andy, Bud
and
The People
(Nuumanu)

## ACKNOWLEDGEMENTS

I wish to thank the members of my dissertation committee for their input and suggestions. Two people were instrumental in assisting throughout the entire process. Edele Hughes and Janes Constantin supporzed the study, guided me aiong the way, and pushed me when necessary. For what I learned from them, I will always be grateful. Special thanks is also due Rosert Lusch who, unknowing?y, gave me the idea for the study during a graduate seminar.

In my work environment, Nancy Rochester and Jerry Wadele helped in every way that they could. They have my sincere thanks.

My immediate and extenced family always had faith in me, even when did not. $M y$ children and husband took care of themselves, and took care of me at the same time. My parents, brothers and sisters, and my many aunts and uncles were always there when they were needed. All of these are entrepreneurial in spirit, bave been a motiv̄さing influence, and have my deep appreciation and love.

Finally, I wish to thank the business women who participated and made this stucy possible.

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## Dissertation Abstract

```
        A STUDY OF FEMALE BUSINESS OWNERS IN OKLAHOMA
    AND THE ASSOCIATION BETWEEN SPECIFIED
ENTREPRENEURIAL CHARACTERISTICS AND FINANCIAL PERFORMANCE BASED ON THE STRATEGIC PROFIT MODEL
```

By: Jacquetta Parker McClung

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Major Professor: Marie Adele Hughes, Ph.D.
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the groups of exploratory hypotheses, 24 individual characteristics were significant.

The fincings of the conEirmatory and exploratory analyses indicated that there was some association between certain entrepreneurial characteristics and financial performance. In addition, margin management and asset management were the profit management strazegies most Erequently utilized by the Eemale entrepreneurs.

# a STUDY OF EEMALE BUSINESS OWRERS IN OKLAHOMA AND THE ESSOCIETION SETWEEN SPECIEIED ENTREPRENEURIAI CHRRACEERISIICS MND EINANCIAL PERFORMANCE BȦSED ON THE STRATEGIC PROEIT MODEI 

## CMPPIER I

## INTRODUCIION

Backoround

The role that female entrepreneurs play in the U. S. economy was not systematicaliy recognized and examined on a large scale until 1975. nt that ime, President Carter spoke publiciy of the special obstacies that females face in starting and developing their own businesses añd committed his aministration to assisting in the removal of those obstacles.:

Ecilowing that statement, in 1977 the House $o$ E Representatives held hearines on the status of women in business. At these hearings, witnesses testified regarding specific problems faced by female entrepreneurs. Eour major concerns were deineated:

1. Economic independence and equaiity Eor women is seldom expressed in terms of entrepreneurship.

[^1] Until recently, economic gains for women would have been seen in terms of job equality, promotional opportunity, and entry into Eormerly segregated job classifications. However, more and more, it has been recognized that the virtual absence of women from American business is a measuring rod for just how liたtle equality has beer achieved for women. ${ }^{2}$
U. S. Commission on Civil Rights: women oE all races and ēthicities, as well as minority males are almost totally shut out of the entrepreneurial sector of the american economy. The beiief that a person can start a small firm and by hard work see it grow into a large business is a fundamental part of the imerican dream-- but for women anc minorities it is a hollow dream . . . the Nation can ill aEford an economic system that is closed to the energies and participation oE the majority of the popuiation. ${ }^{3}$
2. In acicizion to the common problems faced by all small business-
persons, womer Eace additional obstacles and problems.
Conclusion excerpt: The female entrepreneur does share basic problems with ail small businesses . . . we Eind, however. that these problems are exacerbated by boti present sex discrimination and the present eEfects of past discrimination. ${ }^{4}$.
3. There is a need for a data base to adequately define the dimensions oE these problems.

Secretary of Commerce: Our Eirst task is obviousiy to get the cita and document the cimensions of the problems, not only for women but, of course, for minorities. That will tell us something ajout what it is we are to do and how East wi migit be able to move ahead. It would be premature for us to establish a goal or to try to write legislation before we know a great deal more about actual numbers. ${ }^{5}$
2. Report No. 95-604, Women in Business, A Report of the Sib-Committee on Minority Enterprise and General Oversigit of the Commitee on Small Eusiness (September 15, 1977) to the House of Representatives, 95th Congress, lst Session, p. 2.

ミ. Ibid., p. 4.
4. İie.. ?. 24.
5. Ibid., p. 5.

Conclusion excerpt: The Federal Government has an inajeguate data base on the composition and characteristics of the female business community.s
4. There is a need for a national directory of women owned businesses.

The Subcommittee was informed that there is no national directory of women owned businesses altiough a step has been taken in this direction by the National issociation of women Business Owners, which has compiled and puilished a directory of approximetely 1.100 women owned businesses in the washington-Saltimore area.;

E01iowing those hearings, in nugust 1977, the Presicient createc the Interagency Task Eorce to anaiyze the obstacles Eaced by women business owners and to recommend ways by which the obstacies could be overcome.

The Presicent's mandate to the Task Eorce was as Eollows:
i. Identify existing data on women entrepreneurs, assess its adequacy, identify needs for adiditional data and propose methods of collecting them;
2. IdenたiEy the primary practices or conditions:
(a) which discourage women from becoming entrepreneurs; or
(b) which hare the effect of discriminating against women sntrepreneurs or placing them at a competitive disadvantage:
3. Assess current Eederal programs and practices which have the eEfect oE jiscriminating against women entrepreneurs or placinc them at a competitive disadvantage;
4. Based on these assessments, propose changes in the federal iaw, requiations and practices for carrying out the commitment of the Acministration, and advise as to the impact. if any, on such changes on the Eederal budget. ${ }^{2}$
6. Ibic., p. 23.
7. Ibic. P. 21.
6. U. S. Department of Commerce. The Eotzom ine: Unequal Enterprise in imerica, Report of the Presidents Interagency Iask Eorce on women Business Owners, 2nc printing (Washington, D. C.: Govermment Printing OEEice, 1978〉 2.3.

The Task Force began its work by concucting its own inquiry of women business owners. i detailed questionnaire was distributed through the regional ofeices of the Department of Comerce, the Small Susiness ìministration, business and professional associations, and through puikic service radio announcements requesting voluntary participation. In June 2976, the Task Force issued its report to the President. The report provided inEomation about the legal Eorm of business ownership, tie principai business activity, the number of empioyees, gross receipts, how the business started, credit and loan inEormation, prime conะracting uith the government. :arious ippes of agency assistance, and informaこion abou: Eemale entrepreneurs.

The study Eound that, in general, the female entrepreneur Eended to be cifuer, had in recent years started her business alone with her own sarings or a loan, and was motiuated by the same Eactors that motivate men. Elso, the growith rate for self-employed women exceeded that of self-employed men. ${ }^{3}$ Elthough at the time of the repozt oniy $7 \%$ of all businesses were owned by women, 20 the Task Eorce research indicated that seiE-employment had become more attractive as a riable career aiternative Eor women.

The work of the Task Force was supplemented by a similar study by the American Management Assosiation which providec acieitionai insights with respect to successEli business women. Their Eindings were that the
9. Ibic. p. 5.
10. U. S. Department of Commerce, Bureau of the Census, Selected Characteristics oE vomen-0wned Businesses 1977 (washington, D.C.:


[^2]
## Avenues to Business Ownership



Exhibit 1 illustrates three general paths to business ownership. The first is a natural or systematic progression. historically, this has been the path oE early male entrepreneurs. Generally, these early entreprentirs came Erom en=repreneuriad Eamilies ane had less education than today's entrepreneur. There were few female entrepreneurs in the early l900s. Elthougin widows Erequently continued operating the husband's business, most women were limited to such businesses as dressmaking and running boarding houses (Newcomer, 1961). Today's female entrepreneur is generally more educated than her main counterpart and may systematically plan to start a business as a means of
integrating a Eamily anc career, or because she has the abilizy and is unabie to use her talents effectively as another's employee.

While cisplacement may have been a factor in some male business start-ups, this has been a much more visible path for femaies. External events such as death, divorce, or an "empty nest," supplemented by new opportunities available to women, have pushed women toward business ownership. Other extreme situations. such as race and sex ciscrimination, or moving to a new geographic area where employment opportunities were scarce, have motivated women to start their own businesses. Another example of displacement could be negative concitions in job experience which Brockhaus (1980) reEers $=0$ as "environmental push." These negative concitions or experiences sometimes are major Eactors that inEluence a person to leave a position and start a business.

Another type of displacement is more related to an individual's internal selE--Eeelings, atさituce, perceptions, et ceiera. Et iiEEerent stages in life, many people go through an identity crisis. This may result from disillusionment when it is discovered that the current career choice is now boring or unfulEilling. SelE-inventory may produce new goals that result in changing one's direction and lead to non-traditional occupations such as owning and managing an independent business. women constitute almost $50 \%$ of the work Eorce anc there is an accelerating move zoward women assuming roles considered nontraditional, such as business ownership. Incications are that the Euture will continue to open new entrepreneurial doors for women; thereEore, it is timely that more in-Eepti stucies be made of Eemaie business ouners.

Statement o三 the Problem and Eramework Eor Analysis
Small business accounts for approximately $50 \%$ of the Gross Susiness Product.:3 and in recent years new and existing small companies have provided $86.7 \%$ of the nation's new jobs in the private sector. ${ }^{14}$

However, although approximately 250.000 new businesses have been started anmally within the last ten years, $55 \%$ Eail within the Eirst Eive years of operation. ${ }^{15}$ Factors relating to business management and business experience account for most of the business failures. in Sextbooks on sma:1 business management, Sroom and iongenecker (1075) and Pickle and ibrahamsor (1976) state thet the primary causes of business failures are management incompetence ( $61 \%$ ) and inexperience (52\%). The report 0 : the Interagency Task Force created by Presicient Carter cited the Dun anc sradstreet estimate that inadequate managerial aptitude, experience, and skills account for approximately $90 \%$ of all business Eailures. ${ }^{16}$

Management aptitude, experience and skills are intangible and therefore diEEicult to directiy measure. içreement does no: generally exist on what would be valid and zeiiable scales for these variabies. However, these traits are reflectec in the Einancial perEormance of a Eirm, and here a recocmized Eramework, the DuPont Strategic ProEit Model, exists. ${ }^{17}$ As shown in Exhibit 2, this model identiEies three

[^3]proミit management strategies：margin management，asset management，and leverage management．${ }^{12}$

## EXHIEIT 2

## Strategic Proミit Model



```
Ihe strategic proEit model，which is distussed in detail in Chapter II，is utilized in this study to adiress the primary research question： Is Ehere an association between spe＝iEied characteristics of Eemale entrepreneurs anc financiai performance based on the ratios of the strategic profit modei．SpeciEically，two interreiated research ques：ions are asked：
1．Are selected personal anc Eirm characteristics associated with proミit paths：margin management， asset management，and leverage management？
2．Ere selected personal anc Eirm Einaracteristies associated with return on net worth？
Exhibit \(\Xi\) Eraphically presents the Eramework of the stucy by identizying the selected entrepreneurial characteristics to be investigated and the ratios of the strategic proミit model which will be utilized in zesting the hypotheses．
```

17．C．A．Kline and Howard i．Hessler，＂The Du Pont Chart Sustem for Eppraising Operating PerEormance，＂NEM Suiletin（iugust，i952）．
¿も．Sert C．McCammon．Jr．and Robert E．Iusch，＂The New Economics os Bardiare／：iome Center Retailing：E Einancial ProEiie oE 17 ieacing ：aroware／Home Cer：er Companies，＂Hariware Retaining（ocさober，1e75）： 72－7c．

## ENTREPQENEURIAL CHARACTERISTICS

STPATEGIC PROFIT MODEL
Variable
$M 3$
119
$1!5$
$M 7$
$M 10$

1920
1421
$1: 22$
n 24
1125-25
1432-36

H43
1:51-57
1:58-59
M121-127

1160-78
1179-95
487-107

H108
1109
M110
M111
M112
11113
1114
M115-116
M117
M118-119



```
incependently of the franchisor.'g In adcition, the entrepreneur
undertakes to organize, manage, and assume the risk of the business.20
For this stucy, a broad definition of entrepreneur is used:
    an entrepreneur is a person who starts a new business or
    acquires an on-going business or franchise, and organizes,
    manages, and assumes the risk of the business.
    e. Eemale business owner is a Eemale who owns at least 10% of a
    business of which 50% or more is owned by Eemales, and who
    participates in operating the business.
            Justification for the Study
    The analysis framework for the stucy is based on the premise tha:
the strategic profit model is a usetul tool for objectively examining
the structure and characteristies of a business. The use of the
strategic profit model is widely accepted by business anaiysts. In
accition, previous researchers have found it to be a useful frame of
reference Eor evaluating overall financial performance with a single
profit pianning equation utilizing the income statement and the baiance
sheet. However, no prewious entrepreneurial stucies (whether of males
or females) have been Sound in the literature which evaiuate overall
Einancial pe:formance in terms of entrepreneurial characteristies.
    Previous stucies of entrepreneurs have focusec almost exclusively
on males. Recent studies of Eemale entrepreneurs (Schwartz, 1975;
Sonfieia, 1976: Humphreys and McClung, 1981) have raised questions
```

19. Nicholas C. Siropolis, Small Susiness Management: $\vdots$ Guide to Entrepreneursinip. (Eoston: Hougiton MiEEIin Company, 1977), E. 25.
20. William Copulsky and Herbert W. McNulty, Entrepreneurshie anc The Corporation (New York: Americen Management Esso
concerning the relevance of the previous findings to female entrepreneurs. Although female entrepreneurs may face probiems common to all small business persons, women face additional obstacles and problems. In addition, there are indications that the education, experience, motivation, and the types of businesses engaged in by female entrepreneurs may be different from those of males.
Fins study aims to fill two gaps in the existing literature by: (1) evaluating Einancial performance of entrepreneurs using the strategic profit model, and (2) Eocusing on the female entrepreneur.

CHAPTER II

## REVIEW OE THE IITERATURE

## Introduczion

This chapzer develops a backgrounc Eor the stucy by reviewing the Literature on entrepreneurship. it brief overizew of the general areas and the progression of previous research provides the direction Eor the study. Erom the review of previous research, entrepreneurial characteristics are dï̈ided into major classes and the characteristics within each ciass are ciscussed. Research directly relevant to this stucy is comprisec of studies of entrepreneurial characteristics aithin the Elasses identiEied as personal, Eirm, and management cnaracteristics; stucies reiating to special probiems oE Eemale entrepreneurs; anc studies of financial ratios used to evaluate Einancial performance.

In this study, the strategic proEit model will be the basis for examining the association between selected entrepreneurial factors and strategic profit model ratios. The last section will review this model anc discuss its major purposes and its potential usefulness to small business. Exibibit 4 illustrates the Eramevork for review of ti:e İこerature on entrepreneurship.

## ENFISIT 4

## Eizerature Review



## Overview of Entrepreneurial Research

ilthough the significance of the role of the entrepreneur in the process of economic growth has been emphasized in the past and present literature, the entrepreneur has historically received only minor theoretical attention. Saumol states:


Economists, sociologists, and psycholocists have been the primary groups concerned $\because i t t h$ the development $0 \equiv$ entrepreneurial theory and the historical role of the entrepreneur. The Eirst comined academic eEEort to study the historical role of the entrepreneur began in the late le20s at Harvard University. Initiated by Professor Gras, the idea was to "place the businessmen specificaliy in the context of the complex economic structure $\sigma^{E}$ the society". ${ }^{2}$ what deveioped were studies of business policy-making and maragement within the incivieual Eirm which were published in the Harvard Studies in Susiness History. These studies consisted $0 \equiv$ biographies of such notables as John Jacob Astor and jay Cooke, plus the histories of certain business Eisms. What emerged as "business history" was intended to simply be a brancin of

[^4]```
economics.3
The seconc combined effort came with the establisiment of the Research Center in Entrepreneurial History at Harvard in 1948. Under the direction of arthur h. Cole, the Center channeled the efforss of historians, economists, sociologists, and other scholars interested in entrepreneurs. Here the approach was "to practice no unity of sujject or metiod . . . in essence, the Eield of entrepreneurial history would have almost unlimized boundaries."4 The greatest impact on enこrepreneuriai research was made by Har̛ard economist, Joseph À. Schumpeter ( 1947 , 1950) with his concept of the entrepreneur as the innovator. It is recognized that Schumpeter himself stood at the crade of modern entrepreneurial exploration in the United States5 --"he himselE the innovator, the entrepreneur of entrepreneurial history."6
The stucies of the Harvard Research Center progressed Erom an emphasis on economic aspects of entrepreneurship to investigation of indiridual entrepreneurs and their firms. Attention was drawn to "general theories of personality" through the volume Men in Business (1952) which explained the relations of business to a nunier of different societies, anc also detailed social origins and careers of business leaders in loth and \(20 t h\) century America. Studies of personality formation continued, with David Mcclelland, Everet= Hagen,
3. ibid.
4. ibid.
5. Ibia. 2. 96.
6. William Niller, Men in Susiness (Camioriage: Barvari University Press, 1952), ?. 6.
```

Abert Shapero, and others making signiEicant conteibutions to personaiity theory.

Information regarding entrepreneurs and entrepreneurship and many new points of view emerged from these efforts. However, although concepts were defined and some limited generalizations were made during tinis period, a satisfactory general nypothesis for the sole of entrepreneurship was not developed.

Througin the 50 's and $70^{\prime} s$, books on, and siudies of, entrepreneurs concentrazed in Eive general areas focusing on characteristics of success or Eailure of the firm and the entrepreneur. These general areas included: family and personal baskgrounds, personal sharacteristics, social change and personalizy formation, personality change through motiuation and/or business training, and enrironment and iocation. The studies concentrated primarily on winite males in the manuEacturing industry. Iater studies included biack males in business. and where possible comparisons were made between blacks and whizes. As a result of the women's movement, studies of Eemaies in business received atsention and there were calls for more studies in this area. Exhibit 5 presents an overview of prior entrepreneurial research as it moved Erom the recording of entrepreneurial history to studies of specific groups of people. The process began with qualitative studies utilizing personal interviews and projective testing and moved to more quanti=ative studies utilizing questionnaires and objective tests.


```
    At point #O in Exhibit 5, the whole general area of
entrepreneurship nad been covered in varying degrees. The last areas
(#9 and #10) concentrate on specific groups of people as reiated to one
or more aspects of the other areas.
This overview brings the study of entrepreneursinip to the current Eocus of simulianeousiy investigating both the entrepreneur and the business Eirm as an interrelated unit.
```


## Icenะiミication oE Major Classes of Entrepreneuriai Characteristies

```
Exhioit 6 portrays the interrelated characteristics of the entrepreneur and the business Eimm. In this exhibit. the exogenous Eactors representec by the external environment circle include the external sociai-cultural, economic. technological, competitive, and legal-political environments. The encogenous Eactors of the 'entrepreneurial pie' include owner-manager characteristics, firm characteristics, management factors, and Einancial Eactors. This study geals with those encogenous factors. Selow, a general discussion of these Eactors is given, explaining the types of sharacteristics within each group. This is followed by a discussion of specific studies dealing with each factor.
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## Classes of Entrepreneur and Eirm Characteristies



The characteristics of the owner/manager include family backgrounc, such as occupation of parents anc other relatives that servec as role models, and birth order. Personal data include age, sex, marital status, education, and number of children. The personality of the entrepreneur received great attention beginning with the studies of McCleiland. Using projective tests, personality eraizs commonly found


[^5]
#### Abstract

Those portions of che entrepreneurial pie ciscussed above consist of quantitative and qualizative characteristics that are basicaily internal elements that are assumed to be within tine control of the entrepreneur and the Eirm．The preceding categories are not aii－inclusive but only attempt to identify key variables within each group．External snviromental factors such as the state of the economy politicai and govermental policies，and the social situation are largely beyond tie direct control of the entrepreneur and the firm． While it is not the intent to minimize the importance oミ these Eactors， the more controilable endogenous factors are the focus of this stucy．


## Research Related to This Study

Speciミic studies oE enciogenous entrepreneurial Eactors reiated to this study will be reviewed below．These Eactors incluce personal characteristics of entrepreneurs，characteristics of the firms they owned，and their management styles and strategies．In addition，a separate section below is devoted to the stu̇ies of aさたこさudes obstacies，and probiems encountered by Eemale entrepreneurs．Einaily，a review will be made of Einancial ratios used in evaluating the well－being of Eirms or in precicting success or Eailure．

Specific Studies of Personal and Eirm Characteristics
The initial stucies concentrated primarily on the entrepreneurs Eamily backorounds anc personal characteristics，inclucing personality Eactors such as neec for achievement．Collins anc Moore carried out some of the most wideiy known stucies at Michigan State University in
1962. One stucy was of male entrepreneurs who owned manufacturing Eirms in Michigan and began business between 1945 and 1956 . Using personal interviews and psychological tests, Collins and Moore found these entrepreneurs to be men who "failed in the tracitional and highly structured roles available to them in society ... who found an outiet for thei: creativity, a creation uniquely their own: a business Eirm." inother study by Collins and Moore of 80 Michigan manufacturing entrepreneurs incicated that independent Eamilies witi manual iabor backgrounds are a source of entrepreneurs anc that the entrepreneur's Eamily background differs from that of salaried executives:

> Of 30 Michigan mamufacturer-entrepreneurs, 30 percent had Eathers who were skilled or unskilled laborers. oniy $\overline{\text { E percent }}$ were sons of executives or owners of large businesses. In contrast. only 15 percent of the big business leaders had Eathers who were skilied or unshilled laborers, and S5 percent of these leaders had Eathers who were business executives or owners of large businesses.g
ì study by Hal Pickle (1976) of 97 small business managers found a correlation between success and Eive general characteristics: drive, mental ability, human relations ability, communications ability, and technicai knowledge. Everett Hagen's research (1952) in Latin America involved personality formation and the social cinange affecting it. He termed these entrepreneurs "rebels"--businessmen wio accepted iraditional values of their culture but rebelled at the low value society placed on industrial activity in Latin America. slbert Shapero
6. Patrick R. Iiles, New Business Ventures and The Entrepreneur, (Homewood, Richarci D. Irwin, Inc., 1974), PD. 2-3.
©. H. N. Broom and Justin G. Longenecker, Small Business Management, (Cincinnati: Southwestern Puilisining Company, 1975), p. 55.
(1975) termed entrepreneurs "D.P.s" (eisplaced persons), persons who have been dislodged by society and have responded with action through entrepreneurship. These are people who voluntarily or involuntarily left the traditional organization.

The studies of David McClelland are probably the most cited and the most innovaize in the study of entrepreneursinip. These studies in the United States, Poland, and India were initially conducted Eor the Harvare Center for Entrepreneurial Studies in the early 1960 s. McClelland (1951) reported relationships between need for achievement and entrepreneurial behavior in young men. His studies suggested that high need for achievement would influence a young male to select an entrepreneurial position. While these stucies used a rather general definition of entrepreneur, they did lay the basis for further motivation research and led to studies of business ieadersinip and motivational training. Miron and McClelland (1979) reported on achievement motivational training programs and concluded that this type of training increases the probability of establishing and improving smail business. Other stuaies (Rcこさer, 1966; Loweil, 1953; Atkinson, 1956) Eound a correlation between high need for achievement and internal locus of control. ${ }^{10}$ Other significant studies include hornaday and aboud (1971) who used objective tests to identify and measure certain personality characteristics of incividuals who have successfully started a new business. They Found that compared to men in general,

[^6]
#### Abstract

entrepreneurs scored signiEicantly higher on scales reミiecting need Eor achievement, indepencence, and effectiveness of leadership, but they scored lower on the need for support (of family, friends) scale. accorcing to Mancuso, "all the independently conducted studies agree that entrepreneurs are high achievers.":1

Personal and Eirm characteristics, such as age, education, marital status, birth order, type of business etc., have been stucied wideiy (Erochiaus and Nord, 1979; Douglass, 1976; Iiles, 1974; Mancuso, 1974; Cooper, 197ミ; : Howell, 1972; Shapero, 1971; Mayer \& Goids=ein, 19E1; and others). The stereotype picture in the 1950 s anc 1960 s has been that entrepreneurs are relatively less eaucated than the general population. Since the 1970s, this picture has begun to change. Dougiass' study (1976) OE black and white males anc white females found that the numer of entrepreneurs with college degrees is increasing faster than tine general population rates. Dougiass states: "the myti of the relatively less eciucated entrepreneur simply cannot be supported."i2 Brockhaus and No:c (1979) Found that entrepreneurs do appear to be better ecucated than the general population but less so than managers. Moreover there is a wide deviation in the education level between owners of different types oz businesses.


[^7]```
Some entrepreneurial research（ifcClelland，i961；Mancuso，1974； Schreier，1975；Demarest，1977，Humphreys and McClung，i981）has also examined the birth order of entrepreneurs and found that entrepreneurs tend to be Eirst－born or only children．Eirth order research has Eound a relationship between eduration and various types of achievenent and children who are Eirst－born or only shildren．According to Serger and Ivancevich（1973）：
．．．Eirst－jorns and only chileren are more likely to acivance through more levels of educa＝ion，to perform better in school anc aこさain social and inteilectual eminence than do later borns．\({ }^{3}\)
Except Eor stucies using projective tests，most entrepreneurial studies \(\begin{aligned} & \text { mphasizing personal and firm characteristics tend to be }\end{aligned}\) descriptive in nature，using case history and personal interiews as primary methods of data collection．
The general picture of the entrepreneur which emerges from these studies is that of a strong，indepencent leader who desires to be in control of his own destiny，even under adverse ciscumstance．While older entrepreneurs Eend to come Erom entrepreneurial Eamilies and have iess education，the newer ones appear to be better educated than the general population and may have chosen business ownersinip as a eareer alternaこive．The entrepreneur＇s Eirm tends to be small，nondiversiEied， and personally managed by the owner．
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[^8]

[^9]| In adcition, entrepreneurial studies utilizing personal interiews |
| :---: |
| example, in a stucy of Eemale business owners Demarest (1967) inciucied |
| in her questionnaire a section on "Operation of the Business/Practice," |
| which askec questions on management siyle anc philosophy, |
| tomer-clients-suppliers, advertising and promotion, recordkeeping. |
| mpetitors, capital and credie, finance, and motivations and intentions |
| of the managers. Elthough there were no controllec comparisons with |
| comparabie male entrepreneurs, the fincings suggest that women manage |
| ei: business much the same as men. Demarest states: "The interriew |
| data revealed no major approaches to business practices which could be |
| ributed to the Eact that the operators were women. <br> In a stucy by 3owser (1978), the personal interviews of males ( $66 \%$ ) |
|  |  |
|  |
| strategies. This research found that the attituce of minority |
| 7\% blacks, 13\% other |
| ss/management strategies. Schwartz (1976) |
| y wietch and |
| perations, thus leaning toward an autocratic management style. This is |
| onsistent with studies of the managerial styles of male entrepreneurs. |
| The small company environment is conducive to this managerial style in |
| t the company "depends on the drive and resources of |
| so |

10. Janice I. Demarest, "Women Minding their Own Susiness: i Piio: Study of Independent Business and Professionai women anc Their Entemrises" (Ph.D. dissertation, University o三 Coloracio at Souider, 1977). 2. 129.
rarely delegate well anyway．＂：7 This is especially true during the growth years of the Eirm；in the mature years，a more balanced approach emerges．

Regardless of the management style，the business world generally agrees that the acguisition of manageriai competence is a combination of science and art．

Insofar as management is an art．the skills may come Erom personal cualities resulting Erom early condition or iearned through personally controlled experience．Inso£ar as it is scientiEic，Ehose skilis may be deliberately accuired chrough learning．${ }^{2}$

Blthough managerial skill and competence are widely recognized as paramount to the survival of the Eirm，the entrepreneur，who often operates the company as an extension of himself．will not generally consider his own management inexperience or incompetence as a Eactor for Eailure．In her review，Lockwood（1975）states：

In the Deran［1963］study，when the owners were asked to evaluate the reasons for their failure，none of the Eailing group admitted to any personal reasons（aside from health）as a possible Eactor in their Eailure．In Eact，when asked cirectly whether they Eelt they were about as well qualiEied in terms of training and experience as most retailers in their line， 80 percent of the Eailing owners asserted that they were．In contrast，when other retailers were asked to assess the reasons Eor Eailure of retailers they had known，＂the most frequently mentioned fault was insufficient managerial skill．＂19

[^10]SpeciEic Studies Relating to Female and Minority EnErepreneurs
EEter stuaies had touched upon the endogenous Eactors siown in Exibit 6，researchers began to focus on other groups of entrepreneurs， speciEically females and blacks（see Exhibit 7）．The studies basically involved comparing black and white entrepreneurs $=0 g e t h e r$ or separately using the entrepreneurial characteristics previousiy icentified．This research iniluded studies in personal values and attitude toward Susiness（Demarest，1977；Lockwood，2975；SonEield，1976；waこson \＆ Simpson，1976）；the eことitude of others toward businesswomen（Kunimann， 1〇7ミ）：anc proiems，barriers or obstacles encountered by women in entering or managing an independent business（Schwartz，1976；Sonfield， 1975：Humphreys anc McCiung，1981）．Many oE tiese studies oE Eemales anc minorities included and compared some $0\{$ the same variabies that were previously seiected for stucies of white male entrepreneurs （Schreier，1975；Schwartz，1976；DeCario and Lyons，1979；Sleeth and Humpineys．1981）．
i profile of the types of businesses owned bÿ Eemale entrepreneurs shows several Eirm characteristics．Eccording to reports of the White House Comisission on Small Business（1980）and the Small Susiness Àministration（1979），Eemale－owned businesses were concentrated in the seiected services and retail trade industries．Other studies have also shown a concentration in the two industries identified（Scinwart2，1976； Demarest，1977；Bowser，1978：Humphreys and McClung，1981）．The legal Eorm was primarily sole proprietorships，anc the majority of these businesses had no employees anc had average annual receipts of
s10,000.20 In the Demarest study (1977), most of the women started their businesses with less than 55,000 in capital and almost $60 \%$ had earned under $\$ 10.000$ per year. In the Humphreys and Mcclung study (1981), $72.5 \%$ of the female-owned businesses had gross receipts of less than s25,000.

In regard to personal characteristics, studies have shown entrepreneurial women to have the same characteristics as male entrepreneurs (Demarest, 1977; Schreier, 1975; Schwartz, 1975). An exploratory stucy of 51 female business owners by Demarest (1977) examined the background characteristics of the women anc their firms, their jusiness management practices, their personal and business phiiosophies--in general "their perceptions, attitudes and modes of accommodation as women achieving in a male-cominated world. . ."2: The conclusions were that the women possessed predominately androgynous profiles and did not manifest sex-role or gender conElices from achieving in the masculine entrepreneurial world, nor did they feel anxiety about loss of femininity through enterprise Eormation. Rather the women had as strong a sense of independence as found in entrepreneurial men.
20. Eacts Bbout Small Business, pp. E-7.
21. Demarest, "women Mincing Their Own Business," p. 130.

## EXHIBIT 7

FEMALE AND MINORITY STUDIES


In comparing entrepreneurial Eemaies with proEiles of Eemales in general or male entrepreneurs，Schreier（1975）and Schwartz（1975）found that，in general，the female business owners studied were comparable to male business owners．The Eemale business owners exhibited strong crive and selE－confidence，had a desire to be independent and ieanec toward an autocratic management style．Other similarities inciuded positive role models，early entrepreneurial activity，seeing＇opportunity＇as a reason Eor star：ing a business，and a willingness to take ：isks with a positive aここizude Eoward the present and the Euture．DeCario and iyons（iミ79） Eounc that the characteristics of Eemale entrepreneurs diEfered Erom Eemales in general as represented by the Gordon Survey of Interpersonal Vaiues and the Edwards Personal PreEerence Scales．

In regare to the level of ecucation of Eemale entrepreneurs， studies indicate $\operatorname{shat} m o s t$ female business owners have high levels oE education－－at least some college，anc many have coilege degrees．In a study by Schwartz（1976）， $00 \%$ of the female business owners were college graduates or had some coilege； $70 \%$ of the Eemaie jusiness owners in a study by Demarest（1977）had college degrees；and in the study by Humpinreys and McClung（1981）， $55 \%$ had college degrees．These Eincings are consistent with studies of male entrepreneurs．

In other respects，femaie entrepreneurs encounter some projiems and oistacles that differ from male entrepreneurs．The major problems identiEied by the Interagency Task Force in 1977 as unioue to women entrepreneurs were：ecucation in entrepreneurship，that is，inadecuate preparaさion for business and aこさiこudes that iimit aspiraこions Eor
non-traditional careers; management training; and Einancing discrimination in terms of raising capital anci establishing creait. The Task Eorce st:uy Eound the American educational system to be inadequate in preparing women to run a business. In cerms of raising capital the Task Force reported, "the problems faced by the woman entrepreneur seeking Einancing are over and above those normally Eaced by any new or small business person."22 This problem is compounded by a poor perception by Einancial institutions of a woman's eapabilizy $=0$ run a business in a "man's korla."23
i study by Schwartz (1976) of 20 female entrepreneurs supporied the Task Eorce conclusions regarding Einancing and discrimination. Credit discrimination was Eound to be the initial and major barrier Eor women in starting a business. Other problems were related to inexperience--underestimating the cost of operating the business and marketing their product or service.

Specific Studies oE Einancial Factors
In the broad perspective, Einanciai management is a part oE total management of the firm. For purposes of this study, Einancial management is discussed separately because particular emphasis will be given to the useininess of Einancial raこios.
anaiysis of the balance sheet, income statement, and Eunds Elow statements is the traditional means of evaluating the health of business Eirms. Einancial ratios are derived from these statements and provide a
22. U. S. Department of Commerce, The Sotzom Iine, ?. 6.
23. İid.
very useful tool for evaluating Einancial perEormance. Schollhammer and KuriloEミ (1979) state:

Einancial ratio analysis gives a manager checkpoints for judging the effective use of the company's resources. Eurther insights may be gained by comparing the company's ratios with the same ratios of other companies operating under similar conditions. For example, the ratios periocically published by Dun and Sradstreet . . . may de used as performance standards against whici the company's acnievement may be compared. How well the company is doing within the incustry can be jucged in this way. ${ }^{24}$
 emerged.
24. Schollhammer and Kuriloff, p. 354.
25. Discussion of these ratios is adapted Erom Schoilinammer and KuriioEz (1979) and welsch, Ziatkovich and wite's intermeciaze Eccounting (1976).

```
    The user of Einancial ratios is cautioned to view key raこios as a
system oz interconnected internal and external conditions and ever:s
that affect the Einancial performance. It is also important to remember
the structure and pu:pose of ratios. Welsch, Zlatkovich and White
(1976) staこe:
    Ratio anaiysis is siçificant only when the relacionship between
    the selected Eactors sheds adcitional light on the
    interpretation of the individual absolute amounts . . . In view
    of the large number of ratios that could be computed it is
    important that the accountant select Eor presentation only those
    raこios that appear to have the greatest sionificance. In
    determining "sigmiEicance" consideration must be given to the
    purposes Eor which the ratios are used.26
    StuEies oE Einancial ratios include so many diEEerent and
ove=lapping ratios that they are sometimes confusing to interpret. It
is easy to see the dilemma in dete:mining the most useEul Einancial
ratios
Chen and Shimerda（1961）assist with ratio selection in their review anc sumary of 25 stucies：
We hope here to help resolve the problem of ratio selection by examining ratios Eound use干ul in recent empirical studies， reconciling the diEferences in the ones Eound useful in tiese studies，and categorizing them by seven Eactors suggested in the literature．\({ }^{27}\)
OE more than 100 Einancial items（ 65 accounting ratios） 41 are considered useEul and／or are used in the Einal analysis by one or more of the studies reviewed by Chen and Shimerda．AEter eliminating overlapping ratios，Chen and Shimerda classiEied the remaining 34 ratios
```

26．Glenn i．Weisch，Charles I．Zlatkovich，and John A．White， Intermediate excounting（Homewood，Ill．：Richard D．Irwin，Inc．，1976）．

27．Kung H．Chen aṅ Thomas ì．Shimerda，＂An Empirical Enalysis of UseEui Einancial Raこios，＂Einancial Management 10 （Spring，19é）：5i．

```
according to seven Eactors (see Exhibit 8): revurn on investment,
capitai turnover, Einancial Ieverage, shor=-Eerm Iiqui̇ity, cash
position, inventory Eurnover, and receivables turnover. According to
the authors:
\begin{tabular}{|c|}
\hline \multirow[t]{2}{*}{oミ that Eactor ．．．the selection of the best representative ＝atio Eor a Eactor is not indepencent of the ratios selected for other Eactors．Each ratio contains common as well as unique information．The common inEormation contained in a ratio is represenced by Eactors．The unique inEormation is not sinared by any other ：atio in the Eactor．Consequentiy the set of Einanciai ra：ios used for Eurther analysis shouid be selected in such a way tinat the ratios capture most of the common in末ormation contained in their factors and，as a group，contain more unicue information than any oriner se＝of ratios． 28} \\
\hline \\
\hline
\end{tabular}
While the Chen and Shimerda study did not resolve the question 0 ：
mizici satio shouic zepresent a Eactor. the result suggesiec that a
useEul set 0ミ ra=ios could be developed. This classification of
impo:さant :atios is shown in Exnibit 6.29
```

2E．Ibic．
29．Ibia．．․ 57.

## EXHIBIT 8

FACTOR CLASSIFICATION OF IMPORTANT RATIOS Chen and Shimerda (1981) Summary

| Factor | Ratio | Salance Sheet | Income Statement | Soth | $\begin{gathered} \text { Strategie } \\ \text { Profit } \\ \text { Model } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Return | Net Income/Sales |  | X |  | X |
| on | Funds Elow/NW | X |  |  |  |
| Investment | Funcs Flow/TA | X |  |  | X |
|  | Ne: Income/TA |  |  | X |  |
|  | Ne - Income/NW |  |  | Z | X |
|  | ESIT/Sales |  | X |  |  |
|  | NI/Common Equity |  |  | X |  |
| Capi=al | QE/TA | $x$ |  |  |  |
|  | Funds Elow/Sales |  |  | X |  |
|  | Current Assets/TA | X |  |  |  |
|  | Net Worth/Sales |  |  |  |  |
|  | Sales/TA |  |  | X | $\ddot{\sim}$ |
|  | WC/TA | X |  |  |  |
| Einancial | Ioさal Liabili̇ies/IA | X |  |  |  |
| Leverage | Iotal Liabilities/NW | X |  |  | $\therefore{ }^{*}$ |
|  | Long-Ierm Debt/CA | X |  |  |  |
|  | Eunds Elow/TD | X |  |  |  |
|  | Eunds Flow/CL | X |  |  |  |
|  | Retained Eamings/İ̀ | X |  |  |  |
|  | Current Essets/CL | X |  |  |  |
| Ligui̇ity | Quick Assets/CL | X |  |  |  |
|  | Current Liabilities/NW | X |  |  |  |
|  | Current Liabilities/TA | X |  |  |  |
| Cash | Cash/Sales |  | X |  |  |
| Position | Cash/Total Assets | X |  |  |  |
|  | Cash/Current Liabilities | X |  |  |  |
|  | No Credit interval |  |  |  |  |
|  | Quick Elow |  |  |  |  |
| Inventory | Current Assets/Sales |  |  | $x$ |  |
| Iurnover | Inventory/Saies |  |  | X |  |
|  | Sales/Working Capital |  |  | $X$ |  |
| Receivables | Quick Assets/Inventory | $X$ |  |  |  |
| Iurnover | Quick issets/Sales |  |  | X |  |

All 0 f the zatios of the strategic proEi= model used in this study are included in the Chen and Shimeria study. The strategic profit model (Exibitit 9) is a combination of balance sheet and income statement ratios. This model is particularly usefil in analyzing overall financial perEormance because it converts major components of the balance sheet and income statement into ratios forming a single equation, and it identifies major profit paths useEul Eor decision-making. In the strategic proEit model. ingin-yield management is the result of strategically combining margin management, asset management, and leverage management.

According $=0$ McCammon and iusch (1976) the model serves shree important purposes:

1. It specifies tinat a firm's principal financiai objective is to earn an adequate or target rate of return on net wortir;
2. It identifies the three proミit patis in a business; tiat is, a Eirm can improve its rate of return-on-net-worth by increasing its proEit margin, by raising its rate of asset turnover or by leveraging its operation more higily;
3. It dramatizes the principal areas of decision-making in the Eirm, namely margin management, asset management and Einancial policy or ieverage management. Eirms eEEectively interrelating their margin, asset and Einancial policy decisions may be described as high performance companies. ${ }^{30}$

The expanded model (Exhibit 10) identiEies the cortroilable variables of the profit paths. The model is simple to caiculate and easy to understand which enhances its usefulness and is widely used by executives and analysts in financial planning. ${ }^{32}$
30. MaCammen anc Iusch, Hariouare Retailing, ₹. 7ó.
31. Ibid., pp. 72-75.

| Margin Management |  | Asset Management |  |  |  | Leverage Management |  | High-Yield Management |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{\text { Net Profit }}{\text { Net Saies }}$ | $x$ | $\frac{\text { Net Sales }}{\text { Total Assets }}$ | $=$ | $\frac{\text { Net Profit }}{\text { Total Assets }}$ | $x$ | Total Assets | $=$ | Net Profit |





#### Abstract

Prior researci of business owners examined causes anc relationsinips between various entrepreneurial characteristics and success characteristics．Some financial items（such as gross sales，net pro£its，amount of loans）and non－Einancial items（years in business， numier of emplovees，size of business）have been used to determine suecess． business failure．Sowser（1970）used gross saies and net profit to determine success of male and Eemale entrepreneurs．

ここ is not the intent of this stucy to detemine what success should mean $=0$ all Eemaie business owners．Rather the purpose of the study is to determine if there is an association between characteristics of Eemale entrepreneurs and Einancial performance．The strategic proミit model Eits the requirement of this purpose by identiEying three profit paths leacing to higin yield management．In this model，Eour key Einancial relationships（operating performance，asset turnover， debt－ecuify management，and overall performance）serve as a jasis for analyzing anc plamang Einancial strategies of the firm．


#### Abstract

Sumary Entrepreneurial research has made a Eull circle Erom entrepreneur， to the business Eim，the business／Einancial management of the Eirms， and back again to the entrepreneur with more in－depth studies of causes and relationships of various factors．The result is a general profile oz ine entrepreneur．


[^11]```
2. Entrepreneurs exhibit traits of indepencience, leaciersinp, aggressiveness, and have a need to be in control of thei: own destiny.
3. Entrepreneurs have often Eailed in traditionai and higiny structured roles.
4. Early entrepreneurs often had less education; winile younger entrepreneurs tend to be better eũucated than the general population.
5. Younger entrepreneurs view business ownersinip as a career alternative.
Stucies oE Eemaie entrepreneurs in the united states resulted in severai Einaings.
1. Eemale entrepreneurs own small Eirms concentrated primarily in the selected services and retail trade industries.
2. Eemale entrepreneurs often start their finms with a small amount of capitai, and generate low gross revenues.
3. Female entrepreneurs oEten have the same entrepreneurial characteristics as men.
4. Eemale entrepreneurs tended to be college educated--at leas= some college or a college degree.
5. Eemale entrepreneurs Eace problems and obstacles that diEfer Erom male entrepreneurs.
The earlier studies were more descriptive in nature, focusing mainly on personal characteristics and personality. Most of the previous research dealt with males, and Eemales nave oniy in recent years been the focus of entrepreneurial research. Current research is more empirical and continues to expand on prior research. Entrepreneurial stucies using Limited Einancial data have emerged recentiy. This stucy expands on the Einanciai studies and links to the earier studies of entrepreneurial characteristics.
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CHBPTER III

## RESEARC: DESIGN MND METHODOLOGY


#### Abstract

Introduction This chapter describes the population and sample stucied, the variabies, the research instrument, the hypotheses $=0$ be tested, and the statistical procecures used $=0$ analyze the data.


## Population

The population consisted of Eemale business owners ir Okianoma. Since there was no comprehensive directory of Eemaie business owners in Oklahoma, a directory was developed from previous Oklanoma surveys, a 1979 Ohlahoma women Susiness Owners Directory, contacts witi business development organizations, and the telephone directories of several major cities in Okianoma. The major Eelephone directories inciuded the Oklahoma city area, Iulsa area, Lawton area, and Norman area. According to the 1980 census, these areas account Eor epproximateiy $54 \%$ of the total population in Oklanoma. Several smaller directories were also included. The original directory contained 2.146 names and adiresses of businesses either known or believed to be owned, wholly or in part. by women. The major categories by types of businesses were:

| Iype of Susiness | Number | Percent |
| :--- | ---: | ---: |
| Retail SEores | 535 | 24.9 |
| Professional Services | 521 | 24.3 |
| Personal Services | 909 | 42.4 |
| Miscellaneous Firms | 181 | 0.4 |
| $\quad$ Iotal | 2.146 | 100.0 |


Type of Business Number Percent
Retail Stores $535 \quad 29.4$
Professional Services $521 \quad 26.7$
Personal Services $359 \quad 32.0$
Misceilaneous Eirms
Ioさal

102
1.817
26.7
32.0
9.9
100.0

The Survey Instrument
The data was collected by means of a selE-explanatory mail questionnaire. This data coliection method was selected over teiephone or personal interviews due to the time and expense involved in a state-wide sample. The basic design of the questionnaire was basec on previous questionnaires used by Humphreys and MeCiung in 1950 and 1961 involring women business owners in Oklanoma. The major categories of

:yypotheses



#### Abstract

of the strategic profit model: profit margin (M44), asset tiriover (M45), rate of return on assets (M45), leverage ratio (M47), and rate of return on net worth performance (M48). Profit margin measures net profit on sales. Asset turnover measures the use of total assets to produce sales, i.e., the revenue generated per dollar of investment. The rate of return on assets combines profit margir and asset turnover to measure earnings rate on assets. The leverage ratio measures the owner's investment in the Eimm compared to Einancing provided by crecizors. Rate of return on net worth measures the return on the capi=al invested by the owner, incicates the growth potentiai of the Eirm, and is the singie most important overall measure of Einancial pe:Eormance.' is illustrated in Exibit 1l, Eirms can increase the return on net worth by increasing profit margin, asset turnover, or leverage. Thus an increase in these ratios would result in improved overali Einancial perEomance.


ENIIBIT 11
Strategic Prosit Model


EXAMPLES:

| 1. | 15\% | $x$ | 13 x | $=$ | 20x | $\times$ | 1.0x | $=$ | 208 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 108 |  | 20 x |  | 20\% | $x$ | $1.0 x$ | $=$ | 20\% |
| 3 | 4\% | $\times$ | $2.0 x$ | $=$ | 88 |  | 2.5x | $=$ | 208 |

․ MsCammon anc Iusch, :̈arivare Retailing, pp. 72-79.

```
The specific research hypotheses and the related studies are discussed below. ì title precedes each nypothesis and is Eoilowed by the variable number of the characteristic. For example, variable M3 is the age of the business owners and is used througiout all tables to identiEy age oE business owners. See Exhibit 3 for a complete list of variables and variable numbers.
```


## Sirtin Orcier (M4)

> :il: Es measured by the ratios in the strategic profit model, the average Einancial performance of Eemale entrepreneurs who are Eirst-born or Enj chindren is gieate: than the average Einancial performance for female entrepreneurs without this characteristic.

Previous research in several Eielis has empinasized the importance of ordinal posizion in a Eamily and various types of achievement. Sirth-order research has also indicated a positive relationship betweer "Eirst-born and only children" andi management attainment (Dunbo and Freedman, 1971; :̈ennig and jardim, 1977) and earnings progression (Serger and Ivancerich, 1975). Demarest (1977) added anothe: dimension--children who are raised as though they were first-born, such as in seconc Eamilies or where there is a large time gap between siblings. The theoretical reason given for the association between birth order and achievement is that Eirst-born children receive special treatment and support which leads them to develop incependence and self -conEidence. ${ }^{2}$

[^12]```
    Because greater than average Einancial perEormance is a measure of
achievement, it is expectec that Eemale entrepreneurs who are Eirst-born
or only ciildaren will have greater average Einancial performanse Enan
other entrepreneurial women.
```

    Ievel OE Education (M7)
    F2: As measured by the ratios in the strategi= profit model,
        the average Einancial perEormance of Eemaie entrepreneurs
        with a college degree is greater than the average
        Einancial perEomance Eor encrepreneurial women without
        a coliege degree.
    Previous researcin has shown a positive relationship between years of Eormal schooling and income. Higher income for an entrepreneur is generally associated with a nigher return on net worth. Thereミore, it is expected that the averace Einancial perEormance Eor female entrepreneurs with a college degree will be greater than the average Einancial performance for entrepreneurial women without a coilege degree.

## Type of Susiness (M20)

:H3: As measured by the ratios in the strategic profit model, the average financial performance of Eemale entrepreneurs owning professional firms and retail stores is greater than the average financial performance for entrepreneurial women owning other types of Eimms.

Government reports of the U. S. Department oE Commerce, the Small Eusiness idministration, and the 1980 White House ConEerence on Small Eusiness, and other stucies (Schwartz, i976; Demarest, 1977; Sowser, 1970; Humphreys and Mcciung, 1981) have shown that femaie-owned

```
businesses are concentrazed primarily in selected services and retail
trade industries. Excluding pr=Eessional service Eirms, Eiese Eirms
began with a minimal amount of capital and had low yearly sales volume.
It is, therefore, expected that women owners of professional firms and
the more capital intensive retailing Eirms will have greater average
Einarcial perEommance than women who own personal se:vice anc other
types of firms.
    Ioca=ion (:12I)
    H4: As measured by the ratios in the strategic profit model.
        the average Einancial performance of Eemale en:repreneurs
        whose firms are iocated outside the home is greater than
        the average Einancial performance for women whose firms
        are located in the home.
    Many Eemale business owners operate from their homes. The stucy by
Demarest (1977) noted several problems with home-based operatzons:
    Ell of these women who worked at home felt that they had worked
    out sa=isfactory arrangements, but there were problems. Most
    iiked the Elexibility, but this very advantage was oEten a
    disadvantage in that it required great discipline and
    organization to get work done on time. Some noted that it was
    diEEicult to convey a "proEessional" image from the nome.3
    In addition, in-home businesses are oEter not good locations which
may limit saies. Demarest (1977) points out that location is
particularly signiEicant Eor businesses which depend on waik-in clients.
Secause of these problems related to "in-home" businesses, it is
expected that the average financial performance of Eemaie-owned
businesses located outside the home will be greater than those located
in the home.
```

```
3. Demarest, "women Mincing Their Own Susiness," 2. 162.
```


## Mours Worked Per Week (M49)

:15: As measured by the ratios in the strategic profit model. the average Einancial performance of Eemale entrepreneurs will have a positive association with the number of hours worked per week.
\#ere a general assumption is made that the more a person works the more effective will be the £inancial performance. Therefore, it is expected that the average Einancial performance of Eemale entrepreneurs wili have a positive association with the numer of nours worked per week.

Managerial Experience (M56-M59)
H6: is measured by the ratios in the strategic profit model, the arerage Einancial performance of Eemaie entrepreneurs will have a posiEive association with the years of managerial experience.

Lack of managerial experience is a key factor in business Eaiiures. EEfective business strategies depend upon business knowiedge anc managerial experience. According to Demarest (1977), the latter is more important:

Many reported that lack of business knowledge was the source of thei: major diEEiculties during the first year oE operation, but coubted that Eormal business education would have made much cifEerence. ${ }^{6}$

As cited in the "Report of the President's Interagency Task Eorce on Women Business Owners," Dun and Bracistreet estimates that $90 \%$ of all business failures analyzed can be attributed to inadequate managerial aptitude, experience, anc skills. According to the Task Eorce survey:

[^13]```
"The lack of management and business skills appears so be sne of the
greaこest problems Eaced by women going into business."5
    In the book, Women and the Business Game (1980), Charlotte Taylor,
Executive Director of the Task Eorce, gives nine items that have a major
inEluence on small Dusiness Eailure; eigint of these are managerial in
nature.
While knoiledge about business can be acquired through training and Eormal ecucation，an accumulation of years ofmanagerial experience requires ：ime．Therefore，it is expected that women with more years of managerial experience wi：l have greater average Einancial performance than women with less years of managerial experience．
Susiness ミこさここude（： 160 ，M54，M55，Mб̄）
：77：Às measured by the ratios in the strategic profit mociel， the average Einancial pe：Eormance of Eemale entrepreneurs who strongly Eeel a need for independence，responsibility， and personal achievement is greater than the average financia：pe：formance of Eemale entrepreneurs who do not consijer tiese important．
Personal Bこtiさude（M79，M80）
\＃8：is measured by the raこios in the strategic proEit model， the average Einancial perEormance of Eemale entrepreneurs who Eeel conficent that they will succeec when they are in a position to control and direct is greater than that o三 Eemale entrepreneurs who do not consider these important．
SErong drive，self confidence，and a desire for independence have been shown in prior studies to be associated with achievement．It is thereミore expected that there will be a positive reiationship between
```

5．U．S．Department of Commerce，The Sottom inne，p．ce．
the importance given to these characteristics by Eemale entrepreneurs and average financial performance (a measure of achievement).

## Capital Obstacle (M109)

H9: As measured by the ratios in the strategic profit model, the average Einancial performance of Eemale entrepreneurs who encounter raising capital as a major obstacle is less than the average financial performance 0 ₹ women who do not perceive this as à problem.

Crecit Obstacle (M117)
H10: ís measured by the ratios in the strategic profit model, the average Einancial performance of femaie entrepreneurs who encounter obtaining crecic as a major obstacle is iess thar the arerage Einancial perEormance oE women who do not perceive this as a problem.

Schwartz's (1975) stiey Eound credit iiscrimination to be the initial and major barrier in starting a business. ${ }^{6}$ The lack of crecit availability creates severai obstacles for the small business owner: (1) those Eirms experiencing cash Elow diEficulties are unable to obtain credit $=0$ get them through the crisis; and (2) these business owners do not have the ac:untage of using non-equity capitai to increase return on net. worth.

It is assumed in this study that those Eemale entrepreneurs who perceive establising crecit and raising capital to be an obstacle generaliy have encountered these problems. Thereミore, it is expected that the average Einancial performance of females who perceive establishing credit and raising capital as major obstacles wili be less than women who do not perceive these as probiems.
6. Eleanor S. Schwartz, "Entrepeneursinip: ì Nev: Eemaie Ezontier," journei of Contemporary Eusiness 5 (finter, 1976).

Exploratory :Hypotheses.
A secondary objective of the study was to identizy potential associations of other entrepreneurial characteristics and financial performance.

There are other entrepreneurial characteristics Eor which there has been no empirical examination in prior research. Exploratory research was concucted to examine the relationship of these variables to Einancial performance; however, no a priori hypotheses were stated for these variailes.

Data knalysis anc Statistical Procecures
To prepare the data, ali nonmetric responses were assigned numeric codes and then all responses were entered into the computer. i:1 statistical procecures were pe:Eormed using the Statistical inalysis System (SìS).

The Eramework of the stucy civides all variables inco incepencent and dependent ciassifications. The single independent variables are
 variables are the ratios of the strategic profit model

In selecting appropriate tecinioues, the Eype and number of dependent and independent variables and the scale of measurement were considered. For both the confirmatory and exploratory hypotheses to be tested, the statistical technioues deemed most appropriate were one-way multivariate analysis of variance, simple regression analysis, and correlation analysis. Table $\dot{\text { L }}$ Lists the independent variables and the statistical tests, and identiEies the conEirmatory anc exploratory

```
hypotheses to be tested. Table 2 destribes all variables, the
measurement scales, and the statistical technique used. is discussion of
the statistical procecures follows tiese tables.
    Multivariate analysis of variance (M&NOVA) examines the
relationship between multiple dependent variables which are intemal
scaled anci a set of nominal independent variables, anc similtaneously
tests for the effect on the combination of criterion variables. This is
essentially an overali test of equality oE group (cell) means, which seo
vectors in a multivariate context. basically, MrNOVM is an extension of
univariate amaiysis of \ddot{ariance. MENOVE offers several aduantages over}
uni\dddot{ariate amalvsis of variance. According to Hair (1979):}
    Beyond iMOVA, however, MNNOVM acccunts for possibie correlation
    among all dependent variables while testing all variables
    simul=aneously. Further it relieves the researcher from the job
    Of selecting the most important dependent variables from several
    possible confli=Eing ones for decision-making purposes.7
    The assmmptions for MNNOVA are (1) random sampling, (2) a
multivariate normal distribution of each sub-population, (3) the same
variance-covariance matrix for each sub-population oz dependent
variamies, and (4) the observations witinin cells shouic be indepencent.s
```

7. Joseph E. :air, Jr., Ralph E. Anderson, Ronala I. Tatham, and Bernie J. Grablowsky, Multivariate Data Anaiysis (Iulsa, OK: Pevroleum ?uilishing Companサ. 1s79), p. 145 .
8. Hair, et al, p. 15E-159.

## TABLE 1

SUMMARY OF STATISTICAL TESTS

| $H^{\text {t }}$ |  |  | Statistical Tests |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| X | Indepen | dent Variables | Manova | Regr | Corr |
| X | M2 | Race | * |  |  |
| \% | M3 | Roe | ネ |  |  |
| H1 | M4 | Birth order | * |  |  |
| X | M5 | Marital status | * |  |  |
| :2 | M7 | Ecucation | * |  |  |
| X | 110 | Number of children |  | * |  |
| :3 | M20 | Type of business | * |  |  |
| :4 | M21 | Iocation | * |  |  |
| $\pi$ | N22 | Percent business ownersinip |  | * |  |
| $\chi$ | 124 | nge of business |  | * |  |
| X | :125-25 | Number of employees |  | $\star$ |  |
| X | M32-36 | Iegal form of ownership | * |  |  |
| :5 | M49 | Hours worked per week |  | * |  |
| 2 | M51-57 | Outsicie consultants | * |  |  |
| :36 | M56-59 | Years of managerial experience |  | * |  |
| :7 | M60-78 | Attituce toward business | * |  |  |
| +X |  | ownership |  |  |  |
| H8 | 8979-86 | Personal attitude | * |  |  |
| + X |  |  |  |  |  |
| X | 188-107 | Satisfaction with personal life |  |  | * |
| \#- | M100-27 | Eusiness obstacles | * |  |  |
| $\because 10+\pi$ |  |  |  |  |  |

## TABLE 2

## DESCRIPTION OF VARIABLES

## Variable Name

Dependent Variables

| M44 | Profit margin | Interval |
| :--- | :--- | :--- |
| M45 | Esset turnover | Ratio |
| M40 | Return on assets | Interval |
| M47 | Ieverage ratio | Ratio |
| Mco | Eeturn/net worth | Interval |
|  |  |  |
| Independent Variables |  |  |


| M2 | Race |
| :---: | :---: |
| M3 | ̇ge |
| M4 | Sirth order |
| M5 | Maritai status |
| M7 | Education |
| :110 | Number of children |
| :20 | Type of business |
| M2: | location |
| M22 | Percent business owned |
| M24 | gige of business |
| M25-25 | Nuncer of employees |
| : 3 :3,34,36 | Legal form of business |
| ! 49 | :ours work/week |
| M5:-57 | Metiods/aduice |
| M50-59 | Years mgr. experience |
| M50-76 | Susiness attitude |
| M79-66 | Personal attivude |
| M67-107 | LiEe satisfaction |
| M108-127 | Susiness obstacles |


| Nominal | menove |
| :---: | :---: |
| Nominal | MANOVA |
| Nominal | MANOVA |
| Nominal | SinNove |
| Nominal | MENOVA |
| Ratio | Regression |
| Nominal | Minove |
| Norinal | menove |
| Ratio | Regression |
| Ratio | Regression |
| Ratio | Regression |
| Nominal | renove |
| Kaさio |  |
| Nominal | Correlation |
| Ratio | Regression |
| Nominal | MnNOVA |
| Nominal | MiNOVA |
| Ordinal | Correlation |
| Nominal | MANOVA |


#### Abstract

One－way linNove designs invoive a single incepencent variable and muitiple dependent variables．The 5 ratios of the strategic profit model represent the multiple dependent variabies，and various entrepreneurial characteristies represent the single independent variables．For tiose independent variables measured on nominal scaies， （H1－H6，H9－H10），one－way MNOVE was the stacistical sechnique used to test the hypotheses．Exploratory tests were also run For age（M2），race （NE），maこiさal status（M5），legal form of business（M32－36），various business atこiEudes（M60－78），satisEaction with personal liEe（M87－107）， anc various business obstacles（1108－127）．

The Wilks＇lamida statistic is the general statistic used to test Eor overall sigmiEicance inth MiNOVA．AEter examining overall eEEects signiEicant at $\alpha=10$ percent，speciEic eEEects due to particular cepencent variables were evaluated．For individual independent variabies，analysis of variance provides E－tests for this determination． While the $E$ test determines $i E$ the means are signiEicantly diEferent Erom each other，$亡=$ cioes not determine which means diEfer Eron winch other means．Muiたiple comparison methods（identiEied as＂means tes＝＂in this analyses）give more detailed information about the differences among three or more means．For variables signiEicant at 10 percent，the Ryan－Einot－Gabriei－Welsch（REGWF）multiple E test was selected as being most appropriate to determine the location of signiEicant differences among means．＇


[^14]Regression analysis can be used to analyze the relationship between one or more independent (predictor) variables and a single dependent (criterion) variable both of which are interval scaled. "The objective of regression analysis is to help us to precict a single dependent variable Erom the knowledge of one or more indepencent variables.":o
Simple regression involves a single dependent variable and a single independent variable. Each of the ratios of the strategic profit model individually represent the single dependent variabie ( $\because$ ), and selected entrepreneuriai cinaracteristios inciuidually represent the single independent ت̈ariaile $(\ddot{x})$. For the selected incependent variailes measured on raこio scales, simple regression analysis was the statistical tecinique used. This included Hypotheses 7 and 8 , and exploratory tests of percent of business ownership (M22), age of business (M24), anc numier of employees (:25-26).
The assumptions necessary for regression are: (1) for a fixed value of the variable $X$. $Y$ is a random variable; (2) the $Y$ values are statistically indepencent of one another; (3) the mean vaiue of $\mathbb{Y}$ is a straight line Eunation oE $X$; (4) the variance of $Y$ is the same for any $X$; and (5) Eor any Eixed value of $X, Y$ has a normal distribution.
Correlation analysis is concerned with determining the extent to which two variables are related or tend to vary together. The correlation coefficient expresses the magnitude of the relationship. Correlation analysis does not indicate cause anc eEEect, it only indicates that two or more variables vary together either positively or

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10. Hair, et al, p. 36.
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negatively. The strength of the relationship is an incifation of how well the datafit a linear regression line. In the correlation analysis, variable $(Y)$ is one of the indivicual ratios of the strategic profit model, and the second variable ( $X$ ) is one of the entrepreneurial characteristics.

The Pearson product-moment correlation was selected Eor exploratory research concerning methods of seeking advice (M51-57) and satisfaction with life in generai (M57-107) and their relationsinip to Einancial performance based on the strategic profit model.

BeEore the tests were perEormed, an eait was periormed to determine whether extreme vaiues for variables in the strategic profit mojel, which occurred in the sample, might be in error. Considering the firm characteristics of type of business, number of employees, size of business, and whether the firm rented or owned Eacilizies, the extreme. ratios appeared to not be in error but rather represented plausible outizers.

Summary
The purpose of Chapter III was to describe the popuiation and sample studied, the variables, the research instrument, the hypotheses to be tested, and the statistical procedure used to analyze the data.

The population, how a sample was chosen, and a breakdown by type of business of the sought sample was discussed and presented. In addition, the criteria for inslusion of respondents in the analysis sample were stated and the response rate was reported.

Tine variables anc the survey instrument used to gather the data were described. The general research questions and the specific hypotheses were discussed and justiEied using related prior research. Einally, data preparation procedures and statistical tests selected for the analysis were explained.

## CHAPTER IV

## ANAIYSIS OE DATA

## Inさrocuction

This chapter provides a sumnary description oE the survey restits， Ehe acjustments made to the Einancial data，and tie resuits of the zests OE the hypotheses．The summary description will Eolion the order of the questionnaire：personal characteristics，Eirm characteristics， management Eactors，attitudinal Eactors and obsこacies．Eor a number of variabies，classes were comined to ensure that cell sizes were adequate for statistical analysis．These regroupings will be discussed üthin each secたion 0 of the summary description．

So that net incomes would be comparable across sole proprietorships，partnerships，and corporations，the net incomes Eor sole proprietorships and partnerships were adjusted Eor labor．This adjustment will be discussed in the section of the paper covering the Einancial variables．

Summary Description oE Survey Results
As stated previously，of the questionnaires returned， 111 were usable in this study．The respondents used in the analysis were cistributed in Oklanoma areas as Eollows：

## TMSIE 3

GEOGRAPHIC AREAS OF SAMPLE

|  | Erequency |  |
| :--- | :---: | :---: |
|  | $\frac{\text { Percent }}{34}$ |  |
| Iulsa àrea | 33 |  |
| Oklanoma City Area | 38 | 34.23 |
| Lawton, Norman, Other Areas | 39 | 35.14 |

ProEilies of the majority of the respondents and the Eirms are given in Table 4 and Table 5. Additionai detail will foilow these tabies. In general, tine respondents were ecueatec homen wino ohnec professional service and retail firms.

TABIE 4
PROEIIE OF RESPONDENTS

| Characseristic | Percent | Respondent Characteristies |
| :---: | :---: | :---: |
| ̇ge | 67 | 30-49 years |
| Educaこion | $\begin{aligned} & 55 \\ & 23 \end{aligned}$ | Completed college-gracuate work Some college |
| Naとital Status | 65 | Married |
| Number of Chititen | 64 | 0-2 children |
| Eirth Order | $\begin{aligned} & 43 \\ & 24 \\ & 32 \end{aligned}$ | Eizst or only child Youngest child Middie child |
| Type of Susiness | $\begin{aligned} & 50 \\ & 23 \end{aligned}$ | Professional services Retail stores |
| Legal Form | $\begin{aligned} & 61 \\ & 39 \end{aligned}$ | Non-corporate Eorm Corporate Eorm |
| Percent of ownership | 80 | 95-100\% ownership |
| Segan Business | $\begin{aligned} & 52 \\ & 30 \end{aligned}$ | $\begin{aligned} & 1970 \mathrm{~s} \\ & 1980 \mathrm{~s} \end{aligned}$ |
| Hours Worked Per Week | 56 | > 40 hours |
| Location | 85 | Outside the home |

TABLE 5

ENNANCIMI PROEIIE

| Characteristic | Percent | Eirm Characteristics |
| :---: | :---: | :---: |
| Sales | 55 | $<5100.000$ |
|  | 28 | 5100，000－5300，000 |
| Ne：Profit | 35 | Ioss to＜\＄9，000 |
|  | 32 | \＄10．000－\＄29．000 |
| Total issess | 58 | ＜ 550.000 |
|  | 17 | \＄50．000－509．000 |
|  | 14 | \＄100，000－5109．000 |
| Toさai Eiabミİさies | 56 | None $50<510,000$ |
|  | 24 | 510．000－549．000 |
| Net Worth | 37 | Negative to＜ 510,000 |
|  | 33 | 510，000－549，000 |
|  | 23 | \＄50．000－\＄199．000 |

[^15]EIGURE 1
jge groups of femiie susiness oniners


TESLE $\sigma$

AGE DISTRISUIION

| $\frac{\text { Age }}{\text { Erequency }}$ | Ere | Percent |
| :--- | ---: | ---: |
| $20-29$ | 6 | 5.40 |
| $30-39$ | 37 | 33.33 |
| $40-49$ | 37 | 33.33 |
| $50-59$ | 18 | 16.22 |
| $60-64$ | 8 | 7.21 |
| $>64$ | 5 | 4.51 |

Sirth Order. Approximately $10 \%$ of the respondents were only children, $53 \%$ were either the oldest of youngest child in a family of more tian one child, and $32 \%$ were midile childen.

TESLE 7
BIRTH ORDER

|  | Erequency | Percent |
| :---: | :---: | :---: |
| Only Child | 11 | 9.91 |
| Oldest Child | 37 | 33.33 |
| Youngest Child | - 27 | 24.33 |
| Middle Child | 36 | 32.43 |

Marital Status and Household Decision-making. Sixty-Eive percent of the respondents were married or living with someone, $31 \%$ were widowed or divorced, and $4 \%$ had never married. Of those that were married or
had been married, $45 \%$ stated that both male and Eemale had equal inEluence in household decision-making, $27 \%$ stated that tine Eemale had more than equal inEluence, and $16 \%$ stated that males had more than equal inEluence.

Number of Children. Seventeen percent of the respondents had no children, $5 \%$ had 1 to 2 children, $23 \%$ had 3 to 4 children and $3 \%$ had 5 to 6 chilciren.

EIGURE 2
NUMEER OE CHIIDREN OE EEMRIE SUSINESS OWNERS


Education. Eifty-five percent had an undergraduate or graduate degree or had cone some graduate work, $27 \%$ had some college work or an associate degré.

TABLE 8
LEVEL OE EDUCATION OF EEMIIE BUSINESS OWNERS

|  | 1 |  | .91 |
| :--- | ---: | ---: | ---: |
| 8th grade | 15 | 13.64 |  |
| l2th grade | 3 | 2.73 |  |
| Iechnical school | 25 |  | 22.73 |
| Some college | 5 | 4.54 |  |
| Associate degree | 27 | 24.55 |  |
| Completed college | 34 | 30.91 |  |


#### Abstract

Sixty of the respondents indicated their major Eield; $30 \%$ were proEessional fields such as law and medicine, $23 \%$ business or administrative fieids, $12 \%$ social serrices, $12 \%$ health related Eields, $10 \%$ home economics, and the remaining were liberal aris and educasion.

Thirty-six percent stated that they were completely satisfied with their education, and $11 \%$ were completely dissatisEied. In general, $58 \%$ of the business owners were satisEied with the amount of education receired, winie $26 \%$ were dissatissied.

Parent's Ecucation. Thi=ty-seven percent of the Eathers iac an undergraduate or graduate degree or had done some grasuate work, $21 \%$ of the mothers were in this same category. Twenty-five of the male parents and 26 of the female parents had either no formal education or had an Eth grade education. This level of education comprised $24 \%$ of each parent group.


TABIE 9

EEVEL OE EDUCETION OE PERENTS

|  | Erequency |  |
| :--- | ---: | ---: |
|  | Males | $\frac{\text { Females }}{5}$ |
| No Eormal education | 16 | 31 |
| 8th grade | 27 | 21 |
| l2th grade | 3 | 5 |
| Tecinical school | 10 | 18 |
| Some college | 1 | 6 |
| Zssociate degree | 19 | 17 |
| Completed college | 20 | 6 |

In comparing the education of the female business owners and the education of parents, Figure 3 shows that the female business owners as a class have more education than their parents. In the categories of
education above high school, the average level of education of female business owners was greater than the average level of education of parents, except for technical college and associate degrees.

EIGURE 3
COMPARISON OF PARENTS' EDUCATION AND OWNERS' EDUCATION


Parent's Occupation. Excluding the category of housewife, the category of professional occupation was the largest category for joth parents. For fathers, $29 \%$ were in professional occupations, and $22 \%$ of the mothers were in professional occupations. In second place, business services and self-employed each had $22 \%$ for fathers, while business services with $19 \%$ ranked second for mothers, followed by $9 \%$ self-employed.

TABLE 10

## CCCUPATION OF PARENTS



| Father |  |
| ---: | ---: |
|  |  |
|  | $\%$ |
| 24 | 29.27 |
| 18 | 21.95 |
| 18 | 21.95 |
| 5 | 6.10 |
| 6 | 7.32 |
| - |  |
| 11 | 13.41 |


| Mother |  |
| ---: | :---: |
| $\#$ | $\%$ |
| 17 | 21.80 |
| 15 | 19.23 |
| 7 | 8.97 |
| - | - |
| - | - |
| 33 | 42.31 |
| 6 | 7.69 |

Major Eields. In comparing major fields of the business owners and the parents, the female parent tended to major in traditional female areas such as humanities, education, home economics and design, while the female business owner sended to major in areas that more closely matched that of the male parent, such as business law, public administration, and professional fields. Figure 4 graphically illustrates these comparisons between parents and female business owners.

FIGURE 4
MAJOR FIELDS OF PARENTS AND FEMALE BUSINESS OWNERS


## PLEASE NOTE:

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Role Mociels. Seventy-one percent of the female business owners stated that a member of the Eamily or a close relative was an independent farmer or owned another type of business. Eorty-one perant had a Eamily member or close relative that was an independent proiessional, and $52 \%$ personally amired someone who started their own business.

Eirm Charaeこeriseies
Type of Susiness. Professional and personal serice Eirms were the major types of businesses. Professional service Eirms included health and business professionals. The category of health professionals inciuded medical doctors, dertists, psychotherapists, psychologists, nutritional counselors and other counseiors. The category of business professionals included certified public accountants and lawyers. These two proEessional groups made up $50.45 \%$ of all businesses. Personal sezrices (consisting of such seriices as bookkeeping $\dot{\alpha}$ tax, marketing $\hat{\alpha}$ aciver:ising, real estate $\hat{\alpha}$ insurance, interior-residential desion, Landscaping, travel agency, optometry, court reporting-ciocument examining, monogramming, and cleaning-janitoriel se:vices) $=0$ taled $14.41 \%$. The third major category was retail stores with $22.52 \%$. Types of retail stores included gift \& Elower, nousehold accessories, furniture, carpet, ladies apparel and br2¿al wear, wigs and beauty supplies, jewelry, antiques, jewelry, party decor, direct sales, and Eood-based retailers--restaurant, cafe, and grocery. The balance of $12.62 \%$ included arts/crafts related businesses, miscellaneous businesses, and firms which reported two types of businesses under one ownership.

Tñ́se 11

TYPE OE BUSINESS

|  | Erequency |  | Percent |
| :--- | :---: | :---: | :---: |
|  | 56 |  | 50.45 |
| Professional serices | 16 |  | 14.41 |
| Personal services | 25 | 22.52 |  |
| Retail stores | 14 | 12.62 |  |

Business iocation. Seventy percent oE the Eirms were locatec in some business area such as a shoppinc mall, centrai business eiss=rict, or business complex. EiEteen percent of the businesses were locaEed in the home, and $85 \%$ were Iocated outside the home.

TASLE 12

BUSINESS IOCATION

|  | Erequency | Percent |
| :---: | :---: | :---: |
| Shopping mall | 12 | 10.61 |
| Central Susiness District | ce 20 | 23.42 |
| Susiness complex | 40 | 36.04 |
| Other outsicie nome | 16 | 14.41 |
| Home | 17 | 15.32 |

そear Segan Susiness. Only 8 of the responcents began tiei: business before 1960. The largest number of businesses began in the 1970 s and 1980 s.

TABLE 13

YEAR SEGAN BUSINESS

|  | Erequency | Percent |
| :--- | :---: | ---: |
|  | 1 | $\frac{.91}{}$ |
| 1940 s | 2 | 1.82 |
| 1950 s | 4 | 3.64 |
| 1960 s | 13 | 11.81 |
| i970s | 57 | 51.62 |
| 1980 s | 33 | 30.00 |

Eesai Eorm of Oroganzation and Percent of Ownership. Over 50\% oE the Eirms were scle propriezorships, $39 \%$ were corporations and less than $10 \%$ were partnerships. Non-corporate Eorms of organization (sole proprietorships and partnerships) totaled 61\%.

TASIE 14
こEGAI FORM OE ORGENIZEATEON

|  | Erequency | Percent |
| :--- | :---: | ---: |
| Sole proprietorship | 52 | 53.51 |
| Partnership | 7 | 7.22 |
| Corporation | 38 | 39.17 |

Most of the respondents were single owners of their business. Eighty-nine of the 111 respondents $(81 \%$ ) owned $95-100 \%$ of their business, and 86 of these women owned $100 \%$ of.the Eirm. Of the women who owned less than $05 \%$ of their business, only 9 women oivned less than $50 \%$ of their business. Twenty-three firms had outside owners, and $1 \leq$ of these outside owners were otiner females.

TESLE 15

PERCENT OE OWTERS:HIP

Numer of Emplovees. Generally, the owners tenced to have Eew full-time employees and instead utilized part-time help. Thirty-one percent had no Eull-time employees, and $50 \%$ had 1 to 5 Eull-Eime employees.

TESIE 16

NUNEER OE EMPIOYEES

| $\begin{aligned} & \text { Euli-time } \\ & \text { Emplovees } \end{aligned}$ | Erequency | Percent |
| :---: | :---: | :---: |
| None | 34 | 30.63 |
| 1-5 | 55 | 49.55 |
| 6-10 | 14 | 12.61 |
| 11-46 | 8 | 7.21 |

Hours riorked. The numer of hours worked per week by the Eemaie entrepreneurs ranged Erom 5 to b0 hours. Eiginty percent worked 35 or more hours per week, and $15 \%$ worked more than 50 hours.

TASLE 17
HOURS WORKED PER WEEK

|  | $\frac{\text { Erequency }}{}$ |  |
| :---: | :---: | :---: |
| $5-32$ | Percent |  |
| $35-40$ hours | 31 |  |
| $41-45$ hours | 14 | 27.93 |
| $46-54$ hours | 26 | 12.51 |
| $5 \equiv-60$ hours | 18 | 23.42 |
|  |  | 16.22 |

Einancial Infomation. In Eerms of sales, $55 \%$ of the Eirms had sales of less than 5200,000 , $28 \%$ had sales between $\$ 100,000$ and S300,000, and $6 \%$ had sales of $\$ 1,000,000$ or more.

SNELE 18
ANNUAL SALES

| Sales |  | Erequency | Percent |
| :---: | :---: | :---: | :---: |
| \$ 1,000 to | 9,000 | 4 | 3.60 |
| \$ 10,000 to | 48,000 | 30 | 27.03 |
| \$ 50,000 to | 99,000 | 27 | 24.32 |
| \$100,000 $=0$ | 149,000 | 15 | 13.52 |
| \$150,000 to | 199,000 | 6 | 5.40 |
| \$200,000 to | 299,000 | 10 | 9.01 |
| \$300,000 to | 399,000 | 6 | 5.40 |
| \$ 400,000 to | 499,000 | 3 | 2.70 |
| \$500,000 to | 999,000 | 3 | 2.70 |
| S1,000,000 to | S3,000,000 | 7 | 6.32 |

Net proEit．The Eisms in tine study consisted of sole proprietorships，partnerships and corporations．in order to compare net EroEit among the tinree groups，sole proprietorships and partnersinips were adjusted to decuct owner＇s salary．Since this information was not requested in the questionnaire，a surrogate measure had to be seiected and this amount deducted from net D．oEit．Median earnings Eor Eemales in Ohianoma was taken Exom Detailed Populaさion Characteristics＝ Ohlaiona 1980，Eçle 222 ＂Toさal Eemaie Experienced Civilian Iabor Eorce．＂Dccipations in the survey were matched with the occtipation EiEles in Iaile 222．E sumazy of the matched occupations and mecian earnings is inclujed in the Appendix（Table 57）．Eor owners who worked 35 hours or more per week，Eull－time median earnings were deducted Erom net grofic，Eor owners who worked less tinan 35 hours per week，part－tine meciian earnings were decucted from net profit．Ihis adjustment for Iabor was made to protide comparability between the net profits of sole proprietorsinips and partnerships and inose of corporations．
mujusted net proミits ranged Erom a negative 540.000 to a positive S440．000．Over $42 \%$ of the Eizms had net proEit margins between $1-20 \%$ another $42 \%$ had net prefit margins ranging from $21 \%$ to greater than $40 \%$ ， and the remaining $15 \%$ had zero or a negative profit margins．

TASLE 19

ADJUSTED NET PROFIT RARGIN

| Percent Groups | Erequency | Percent |
| :---: | :---: | :---: |
| Loss／2ero | $\frac{17}{15.32}$ |  |
| $1-10 \%$ | 24 | 21.61 |
| $11-20 \%$ | 23 | 20.72 |
| $21-40 \%$ | 25 | 22.53 |
| $>40 \%$ | 22 | 19.82 |

```
ìssets, Iiabilities, and Net iorth. EiEty-nine percent oEthe Eirms had assets of less than 550,000 . \(96 \%\) had assets of less than §300,000. Of \(a 11\) the Eirms, \(33 \%\) hac asset turnover of less than 2 times. \(34 \%\) had asset turnover of \(2-4\) times and \(32 \%\) had asset turnover greater than 4 times. Most Eirms ( \(00 \%\) ) had less than 550,000 in liabilities, and \(91 \%\) had a leverage ratio of less than 2 times. The net worth of the firms ranged Erom negative or none to \(\$ 300,000\), with a rate of return on net worti. rancing Erom -1000\% to \(+1250 \%\).
```

TMBIE 20
RATE OE RETURN ON NET WORTH

| Percent Groups | Erecuency | Persent |
| :--- | :---: | ---: |
|  | $\frac{29}{25.12}$ |  |
| $i-14 \%$ | 10 | 0.01 |
| $15-29 \%$ | 9 | 6.11 |
| $>29 \%$ | 53 | 56.76 |

Management Eactors
Methods of Seekine ḟ̈ice. In general, Eor law, taxes, and Einancial matters, the Eemale business owners sougint acivice Erom experts and professionals. For the operational aspects such as management, salesmarship, and marketing the most common method of seeking advice was through conferences, workshops, and seminars. Erequencies are shown in the following table:

TMSIE 21

METHODS OF SEEKING EDVICE

| Susiness Area | W/Shop |  |  |  | Combi- |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Seminar | Experts | Govt. | None | nation |
|  | \# | \# | \# | \# | \# |
| Business law, government requlations, taxes | 10 | 37 | 1 | 24 | 24 |
| Salesmanship | 19 | 7 | - | 47 | 12 |
| àccounting | 8 | 39 | - | 28 | 15 |
| Nanacement | 20 | 4 | 1 | 43 | 15 |
| Einance | ? | 27 | 1 | 40 | 11 |
| Maskeさ̇.ng | 19 | 3 | : | 51 | 13 |
| Average | 14 | 20 | $<1$ | 39 | 15 |

About 85 of 111 women answered the question on seeking outside advice. Of these respondents, about $44 \%$ indicated that they did not seek any form of business assistance. The otier $55 \%$ indicated that they cid utilize experts/professionals, conferences, worksiops, seminars, or some combinaiion of these methods. Only one respondent indicated that she utilized government sponsored business assistance.

Years of Managerial Experience. Forty-three percent hac no managerial experience prior to business ownership, $32 \%$ had 2 te 4 years of prior managerial experience, and $25 \%$ had 5 to 19 years of managerial experience. However, most years of managerial experience had been acquired while owning their own business.

## Obstacles

In operational matters such as recordkeeping, managing employees, marketing to and dealing with customers, on average over $50 \%$ of female business owners did not consider these operational matters to be a problem. Eoriy-three percent did not consider Einancial, business law,

```
government reguiations, or taxes to be a projiem. The means of all
ratings Eell within 3 (slight obstacle) and 4 (not a problem).
```

TMGLE 22
OSSTACLES IN STARTING OR OPERAIING à SUSINESS

$$
\begin{aligned}
\text { Rating: } & \text { 1=major obstacle } \\
& \text { 2=moderate cistacle } \\
& 3=\text { sligint obstacle } \\
& \text { \& not a pacien }
\end{aligned}
$$

|  | Mean | Stai. Dev. |
| :---: | :---: | :---: |
| Keeping business recorcis | E.1 | 0.94 |
| Einancial matters | 3.2 | 0.90 |
| Manasing employees | 3.2 | 0.93 |
| Deaiing with cistomers | 3.7 | 0.50 |
| Knowing who people are who will buy your product | 3.4 | 0.77 |
| Susiness law, govt. regs., taxes | 3.1 | 0.89 |
| Àvertising | 3.4 | 0.89 |

Other Obstacles. Eqain, on a 1 to 4 scale, the means inaicated either no problem or only a sligit problem for various cifficulties encountered by female business owners. However, there are seven areas that 15 or more respondents indicated as moderate obstacles. These seven areas are marked with an asterisk*.

TASLE 23
OTEER OESTACLES IN STARTING OR OPERATING E SUSINESS

|  | Mean | Sta. Dev. |
| :---: | :---: | :---: |
| *Lack..business experience | 3.0 | 0.93 |
| Difficulty..raising capital | 3.1 | 1.09 |
|  | 3.3 | 0.65 |
| ̇Ch.ilcraising responsibilities | 3.0 | 0.98 |
| *Difficulty..obtaining. .adrice | 3.3 | 0.90 |
| Lack. .encouragement...Eamily | 3.6 | 0.78 |
| *Discrimination | 3.2 | 0.95 |
| *Difficulty..obtaining contracts | 3.3 | 0.90 |
| Difficulty..obtaining suppliers | 3.7 | 0.65 |
| DiEEiculty..establishing credit | 3.4 | 0.91 |
| خLack..adequate working capital | 3.2 | 0.96 |
| Lack..adequate inventory | 3.6 | 0.71 |

ふたこiさude of Eemale Susiness Owner．
Respondents were asked to consider the imporiance of various items on a scale of 1 to 4．The mean of 2.7 indicated that recognition of family and Eriends＇was of least importance．All others on average were considered moderateiy or very important．

TAEIE 24

| ERE EACH OF THE EOLIOWING TO YOU？＂ |  |  |
| :---: | :---: | :---: |
| Rating： $1=n o t$ very important， $2=s l i g h t l y$ important 3－moderately important， $4=v e r y$ important |  |  |
|  | Mean | Std．Dev． |
| Seing my own boss | 3.5 | 0.89 |
| Large proEits | 3.0 | 0.74 |
| Growti of business | 3.2 | 0.34 |
| Recognition of Eamily $\bar{\alpha}$ Eriends | 2.7 | 1.04 |
| Eeeling of personal achievement | 3.7 | 0.55 |
| Eeeling of independence | 3.6 | 0.70 |
| Eeeiing oE ：esponsibility | 3.3 | 0.81 |

The business owners were aiso asked how true various statements were concerning Eheir business．As shown in Table 25 ，excep：for the statements dealing with the home／Eamily and time to get the joi cone， the average of all other statements fell between＂very true＂and ＂somewnat true．＂

TASLE 25
"HOW TRUE IS EAC: STATEMENT ASOUT YOUR SUSINESS?"
Rating: l=very true, $2=$ somewhat true, $3=$ not very true, $4=$ not srue at all

Respondents were asked their opinion on other statements relating to entrepreneurs. The means shown in Table 25 indicate overail acreement on all statements.

## TȦELE 26

":ZOW DO YOU PERSONAIIY RGREE OR ここSESREE MTTH THESE STETEMENTS?"

Rating: $1=s t r o n g l y$ agree, 2=agree, 3=no opinion 4=disagree, 5=strongly disagree

|  | Mean | Std. Dev. |
| :--- | :---: | :---: |
| I generally succeed. . . | 1.6 | 0.60 |
| Prefer working with experts.... | 2.1 | 0.97 |
| Parents set high achievement standards | 2.4 | 1.23 |
| Feel I can do job better... | 2.2 | 1.01 |
| Self-confident when in control..... | 1.9 | 0.87 |
| Enjoy planing tasks | 2.4 | 1.05 |
| Fas successful when employed by others | 1.9 | 0.88 |
| Had encouragement to start business | 2.5 | 1.30 |

The baiance of the questions were relatec to satisfaction with liEe and experiences. Respondents were asked to rate various polar Eeelings
regarding their present life with $1=$ positive and $7=n e g a=i v e$ (see Table 27). The situation of 'easy or hard' had a mean of 4.2 and the situation of 'free or tied down' had a mean of 3.1. The means of ail other polar adjectives were between 1 and 2 which indicated that on average the women $£ e 2$ g good about their present life.

TABLE 27
"HON DO YOU EEEL ESOUT YOUR PRESENT EIEE?"
Eating: i=positive.......7=nega:ive

|  | Mean | Stai. Dev. |
| :---: | :---: | :---: |
| Interesting...boring | 2.0 | 1.33 |
| Enjoyabie...miserable | 2.1 | 1.21 |
| Ease...hard | 4.2 | 1.76 |
| Worthwhile...useless | 1.9 | 1.28 |
| Eriendly...ioneiy | 2.2 | 1.50 |
| Ful2...empty | 2.1 | 1.46 |
| HopeEul... ̇iscouraging | 2.1 | 1.28 |
| Eree...tiec down | 3.1 | 1.98 |
| Rewaṙing...डisappointing | 2.0 | 1.30 |
| Brings out best in me... doesn': give me a chanes | 2.0 | 1.22 |

On a scale cf 1 to 7, with ? representing a terzible sizuation and 7 representing a perfect situation, the Einal ratings in Fable 28 indicated general satisfaction with life and experiences. iggain, the average responses for all situations listed in the questionnaire were positive. The lowest mean (4.5) indicated that the Eemaie business owners desired more savings and investments.

## TASLE 28

|  | Mean | Stc. Dev. |
| :---: | :---: | :---: |
| City or place you life | 5.3 | 2.44 |
| House or apartment | 5.7 | 1.19 |
| Your life in Oklahoma | 5.5 | 1.55 |
| Your educaこion | 5.3 | 1.41 |
| Your business | 5.7 | 1.07 |
| Your health/pnysical concition | 5.2 | 1.45 |
| Standara of living | 5.6 | 1.19 |
| Savings and investments | 4.5 | 1.65 |
| Your Eriendsinps | 5.4 | 1.42 |
| Yout Eamily life | 5.4 | 2.31 |
| Your life as a whole | 5.6 | 1.04 |

## Results of Tests of Hypotheses

In the first part of this section, the results of tests of the hypotheses and the means for the significant hypotheses are discussed. Table 29 on the following pages gives a sumary of the hypotheses, the statistical procedure, p-values, and whether each hypothesis was rejected or accepted. The second part discusses the exploratory findings of tests of other variables for which no a priori hypotheses were stated. One-way multivariate analyses of variance anc regression analyses were used to test the a priori hypotheses. The statistical procedures were discussed in Chapter 3. Eor each hypothesis using MrNOVA, the overall resulis and the significant ratios of the stratecic proミit model are reported. Eor the hypotheses using regression analyses only the sigmificant ratios are reported. However, Tables 52-55 in the appencix report tie p-ralues of $a l l$ dependent variables MGC-MG $\delta$ (strategic profit model ratios).

Table 52, .11 Significant Variabies
Table 5三, MiNOV: Iable - Significant Variables
Table 54, ManOVA Table - All Variables
Table 55, Regression - All Variables
Table 56, Correlation - All Variabies

Each hypothesis will be Eollowed by a lette: a:c a number winich identiEies the variable. This variable number is used in each hypothesis and on ail tabies to identify the specific characteristic. For exampie in Hypothesis $i$ and in Table 29, the numer M7 identifies the variable birth order.

TABLE 29
sumhary of tists of hypotheses

| liypothesis | Statistical Procedure |  | alues-..-.... <br> Slgnificant Aatios | Research <br> fejected | Hypothesos Not Rojected | Relationship to FInancial Porformance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H1: Birth order (M4) |  |  |  |  |  |  |
| Using the strategic profit model. the average financial performance of female entrepreneurs who are first-born or only children is greater than the average financial performance for other women without this characteristic. | Manova | . 2222 | Hone | x |  | Birth order does nes result in significant differences in average financial performance. |
| H2: Level of Education (M/Group) |  |  |  |  |  |  |
| Using the strategic profit model, the average financial performance of female entrepreneurs with a college degree is greater than the average financial performance for women without a college degres. | Hanova | . 6331 | Hone | $x$ |  | Education does get result in significant differences in average finsncial performance. |
| H3: Type of Business (M20Group) |  |  |  |  |  |  |
| Using the strategic profit model, the average financisl performance of female entrepreneurs ouning professional firms and retail stores is greater than the average financial performance for women owning other types of firms. | Hanova | . 0648 | H44/.0609 |  | $x$ | Average profit margin of professionsl and retail fitms is greater than personal service and other firms. |
| H4: Location (M21Group) |  |  |  |  |  |  |
| Using the strategic profit model. the aversge financial performance of female entrepreneurs whose firm is located outside the home is greater than the average financial performance for women whose firms are located in the home. | Hanova | . 5245 | Hone | $x$ |  | Location outside or inside the home does not result in significane differences in average financial perfornance. |
| H5: Hours Worked Per Weak (M49) |  |  |  |  |  |  |
| Using the strategic profit model, the average financial performance of female entrepreneurs increases as the number of hours worked per veek increases. | Regression | Hone | None | x |  | Hours worked per veek does nos result in sigmificant differences in average finncial performance. |

## H6: Managerial Experience (M158-M59)

Using the strategic profit model, the average financial performance of female entrepreneurs increases as the IISQ Managerial experience prior
is9 lanagerial experience prior to ounership usbs9 total years of managerial experience

H7: Business Attitude (M60, M64, M65, M66 Groups)
Using the strategic profit model, the average financial performance of female entreprencurs who feel that independence. responsibility and personal achievement is mance of those who do not consider these important.


H65 Feeling of independence
1166 Feeling of responsibility

H8: Personal Attitude (M79Group, M83Group)
Using the strategic profit model, the average financial performance of female entrepreneurs who feel confident to succeed when in a poisition to control and direct is greater than women who do not consider these important.

179 Generally succeed at what I decide to do
1103 Self-confident when in control

19: Capital Obstacle (M109Group)
Using the strategic profit model. the average financial peformance of female entrepreneurs who encounter raising capital as a major obstacle is less than women who do not consider this a problem.
H10: Credit Obstacle (M117Group)
Using the strategic profit model, the average financial performance of female entrepreneurs who encounter performance of female entrepreneurs who encounter
establishang ciedit as a major obstacle is less than women who do not consider this as a problem.


$x$ Rate of return on net Rate of return on net
worth is less for those who encounter raising
capital as an obstacle.
$x \quad$ Met profit and asset turnover is less for credit as an obstacle.
is previously statec in the introcuction to this chapter. some variables were regrouped and these are identiEied by the word 'Group' foliowing the variabie numier, i.e. : 7 GGroup identifies regrouping of level of education.

The hypotheses tested with ManOVs were Hypotheses 1, 2, 3. 4, 7, 8, o, and 10. The hypotheses tested using Regression were Hypotheses 5 and 6. The MinOVA results are discussed Eirst and the regression results second.

Mypothesis i: Exth Order (M4)

```
    Но: \(\mu_{1}=\mu_{2}=\mu_{3}=\mu_{y}=0\);
    where; \(\mathcal{H}=\) vector of means of financial performance
                (M44-M4E)
                \(1=\) oniy sinila
                2 = oldest child
                \(\bar{z}=\) youngest child
                \(4=\) neither oidest or youngest child
```

    MiNOVE SioniEicance Level Calculated p-value
    Overall eミEect . 10 . 2222
    Since the Wilks lamia p-vaiue oz .2222 is greater than the ievel OE signiEicance chosen for the test, the research hypothesis (il), that the average financial performance of female entrepreneurs who are Eirst-born or oniy chilicen is greater than the average Einancial performance of other femaie entrepreneurs, is rejected.
:ypothesis 2: Level o三 Eaucation (M7Group)

$$
\text { ino: } \mu_{1}=\mu_{2}=\mu_{3}=0 \text {; }
$$

where: $\mu=$ vector of means of Einancial performance (M44-548)
1 = None, secondary, $\dot{\alpha}$ Eechnical school
$2=$ Some college $\dot{\alpha}$ associate degree
三 = Coilege degree, graduate work'degree

| Mrnova | Significance Level | Calculatec P-value |
| :---: | :---: | :---: |
| Overali effect | . 10 | .6331 |

Since the Wilks' lamba p-value oE $.6 \equiv 31$ is creater than the level of signiEicance, the research hypothesis (: $: 2$ ), that the average Einancial perEormance of female entrepreneurs with college degrees is creater than the average Einancial pe:Eomance of Eemale entrepreneurs without a coliege degree, is rejected.
:Ypothesis 3: Type of Susiness (:Z20Group)

where $\mu=$ vector of means of Einancial performance (М44-M48)
$i=$ Personal service Eirms
2 = Professional serrice Eirms
3 = Retail stores
4 = Other-miscellaneous Eirms

| MrNovA | SigniEicance Level | Calculated P-vaiue |
| :--- | :---: | :---: |
| Overall effect | .10 | .0648 |
| ProEit margin (M44) | .10 | .0690 |

Since the wilks' lamida p-value of .0648 is iess than the level of significance, the research hypothesis (:3), Enat the average Einanciai perEormance oE Eemale entrepreneurs owning proEessional serizee Eirms or
retail stores is greater than the average financial performance of women owning other Eypes of Eirms, is accepted. Table 30 shows where the differences lie for average pro£it margin (M44).

TAELE 30
MEANS TEST FOR TYPE OE BUSINESS (M2OGROUP)

₹Means with the same letter are not sigmi=ieantiy ciEEerent. דMeans with two letters are not sionificantly different Erom either group.

The results of the means test for type of business ( $N 20$ ) shows inat the average proEit margins of professional service Eirms and retail stores is greater Ehan the average profit margin of personal se:vice and other misceilaneous firms, however, they are not simisicantly cifferent. The mean profit margin for personal service firms is significantly íEEerent Erom professional serrice anc retail Eirms, however, it is not significantly different Erom other miscellaneous Eirms.

```
Hypothesis 4: Iocation (M21Group)
    но: \(\mu_{1}=\mu_{2}=0\) :
    where \(H=v e c t o r\) of means of financial perEormance
        (M44-M48)
        \(1=\) Outside home
        2 = In home
```

| MiNOVA | SigniEicance Level Calculated P-value |  |
| :--- | :---: | :---: |
| Overall effect | .10 | .5245 |

The Wilks' lambia p-value of .5245 is greater than the level of sioniEicance, therefore, the research hypothesis (h4), tiat the average Einancial performance of Eemale entrepreneurs whose fism is located outside the home is greater than those locatec in the home, is rejected. Mypothesis 7: Business httitude (M60, M64, M65, M6б Groups)
(M6OGroup) "Seing my own boss"
Ho: $\mu_{1}=\mu_{4}=0$;
where $\mu=$ vector of means of financiai perEormance (M44-:148)
$1=$ Not very-siightly important
$4=$ Moderately-extremely important
MANOVA
Overall effect

Tine wilks'lambaa p-value of .3774 is greater than the level of significance, thus the null hypothesis is accepted that there is no signiEicant difference in the average Einancial performance between Eemale entrepreneurs who believe that "being my own boss" is moderately to extremely important and those who do not consider this to be imporこant.

```
    (M64Group) "Eeeling oE personal achievement"
    Ho: }\mu=\mu=\mu=0
        where }\mu=v=vecor of means of financial performanc
                                (M44-M48)
    1 = Not very-slightly important
    4 = Moderately-extremeiy important
MNNOVA Significance Level Calculated P-value
    Overall effect .10 . }973
    The fillks' lambda p-value of .973s is greacer than the level of
sicriEicance, thereEore, the nu:1 hypothesis is accepted that there is
no signiEicant ciEEerence in average financial perEormance between
female entrepreneur who believe that "feeling of personal achievement is
moderately to extremely important and those Eemale entrepreneurs who do
not consider this to be important.
    (M65Group) "Feeling of independence"
Ho: }\mp@subsup{\mu}{1}{\prime}=\mu=\mu=0
    where }\mu=vector of means of Einancial perEormanc
                        (M44-M48)
            L = Not very-slightly important
            4 = Moderately-extremely important
\begin{tabular}{lcc} 
MaNOVA & Significance Level Calculated p-value \\
Overall efiect & .10 & .6914
\end{tabular}
```

$\qquad$

```
Since the Wilks' lambda p-value of .6914 is greater than the level of significance, the null hypothesis is acceptec that there is no sioṅEicant \(\dot{C i E f e r e n c e ~ i n ~ a v e r a g e ~ E i n a n c i a l ~ p e r f o r m a n c e ~ b e t w e e n ~ E e m a l e ~}\) entrepreneurs who believe that a "Eeeling of incepencence" is moderately to extremely important and chose who not consider this to be important.
```

(Mб́sroup) "Eeeling of responsibility"
но: $\mu_{1}=\mu_{4}=0$ :
where $\mu=$ vector of means of financial performance (M44-M48)
$1=$ Not very-slightly important
4 = Moderately-extremely important


The $\dot{W} i l k s$ lambia p-vaiue of .5772 is greater than the level of sioniEicance anc the null hypothesis is accepted that there is no signiEican: $\dot{E} E f e r e n c e$ between Eemale entrepreneurs who believe that a "Eeeling 0 E responsibility" is moderately to extremely important and those Eemale entrepreneurs who do not consider this to be important.
mecoring to the Mivovi tests, the research hypothesis (: $\because 7$ ), that the average Einancial performance oE Eemale entrepreneurs who strongly Eeel that independence, responsibility and personal achievement is important is greater than the average Einancial performance of Eemale entrepreneurs who co not consider these important, is rejected.

Hypothesis 0: Personal ittitude (M79Group, M83Group)
(M79Group) . "I generaliy succeed at what I decide to do"
Ho: $\mu_{1}=\mu_{4}=0$;
where $\mu=$ vector of means of financial performance (M44-M48)
$1=$ igree-strongly agree
$4=$ No opinion-disagree-strongly disagree

| MinOV: | SimiEicance Level Calculatec P-value |  |
| :--- | :---: | :---: |
| Overall effect | .10 | .9028 |

The Wilks＇lambea p－value of .9928 is greater than the level of significance，and the null hypothesis is accepted that there is no signiEicance difference in average Einancial performance between female entrepreneurs who believe they generally succeed at whatever they decide to do and those Eemale encrepreneurs who do not agree with this sさaさement．

```
(:EミGroup) "I feei seIE-conEEient when in a position to control anc cirect＂
```

：io：$\mu_{1}=\mu_{4}=0$ ：
where $\mu=$ vector oEmeans of Einancial performance （M44－M48）
1 ＝igree－strongly agree
$4=$ No opinion－disagree－strongly iisagree


The wilks lamida p－value of .2300 exceeds tine level of signiEicance anc the null hypothesis is acceptec that there is no sicrisicant ciEEerence in average Einancial pe：Eomance between Emale entrepeneurs who agree that tiney＂Eeel self－conEident when in a position to control and direct＂and those Eemale entrepreneurs wino do not agree with this statement．

According to the MANOV：analysis，the research hypotinesis（tio）， that the average Einancial performance of Eemale entrepreneurs who have a strong personai attitude toward success and Eeel sel£－confident when in a posiEion to control and cirect is greater tinan the average Einancial performance of female entrepreneurs wino do not agree with this personal attitude is，rejected．

Bypothesis 9: Capital Obstacie (M109Group)
"DiEficulty in raising capital presented an obstacle in starting or operating my business"

Ho: $\mu_{1}=\mu_{4}=0$;
where $\mu=$ vector of means of Einancial performance (M44-M48)
I = moderate-major obstacie
4 = slight oostacie-not a problem

```
NM:OVE SigniEicance Level Calculated P-value
Overali eEEect
RN on net worth (M48) .10 . 0088
```

The Wilks' lamida p-value $0: .0761$ is less than tine level of signiEicance. The nuil iypothesis that there is no sioniEicant ¿iEEerence in average Einancial perEormance between Eemale entrepreneurs who encounter raising capital as a moderate-major obstacle and Eemale entrepreneurs wio do not consider this a problem is rejected. The signiEicance EiEEerence lies in the means oE rate oE return on net worth (M40) as shown in Table 31.

ThbiE 31
MENNS TEST EOR CAPITAL OSSTRCLE (M109Group)

| DEEEerences* | Mean | Sta. Dev. | Raising Capital |
| :---: | :---: | :---: | :---: |
| RR-Net Worth |  |  |  |
| E | -91.126 | 512.96 | 1. Moderate-major obstacle |
| 5 | 98.670 | 222.18 | 4. Slight obstasle-no problem |




#### Abstract

The research hypothesis（：99），that the average Einancial performance of Eemale entrepreneurs who encounter raising capital as a moderate to major obstacle（Group 1）is less than female entrepreneurs who do not consider this an obstacle（Group 4），is accepted．The average return on net worth of the Einst group is a negative $-91.1 \%$ and the average return on net worth for the second group is a positive $99.7 \%$ ．These extreme percents are a result large negative raさios in the Eirst group and large posi＝ive ratios in the second group．：owever，as discussed in Chapter III，these outiiers appear to be piausibie．


## Hypothesis 10：Crediた Obstacle（M117Group）

```
    "DミEEiculty in estabiishing creait presented an obstacle in
    starting or operating my business"
```

：io：$\mu=\mu_{4}=0$ ：
where $\mu=$ vector of means of Einancial perEormance （1444－1448）
1 ＝Mocierate－major obstacle
4 ＝Sligint oistacle－not a proiolem

| Minove | SicniEicance Leve： | Calculatec P－value |
| :---: | :---: | :---: |
| Ove：all efミect | ． 10 | ． 0047 |
| ？ 0 ¢i＝margin（ 144 ） | ． 10 | ． 0090 |
| esset turnover（M45） | ． 10 | ． 0047 |

The Wilks＇lamioca p－value of． 0047 is less than the level of significance．The null hypothesis that there is no significant diEference in average Einanciai performance oE Eemale entrepreneurs who encounter estabiishing credit as an obstacle and those famale entrepreneurs who did not consider this a problem is rejected．The signEicant differences iie in the proEit margin（M44）anc asset turnover （AL5）．Table 32 shows the means and standard deviations．

TRSLE 32
 performance of female entrepreneurs who encounter establishing eredit as a moderate-major ojstacle (Group 1) is less than Eemale encrepreneurs who do no: consider this an obstacle (Group 4), is acceptea Eor proEit margin (M44). The mean profit margin of the Eirst group is a negative $-12.7 \%$ compared to a positive $19.7 \%$ Eor the second group.

This hypothesis is not accepted fo: asset turnover (M45).. The Eemale entrepreneurs who encountered establishing crecit as an obstacle (Group 1) had an arerage asset turnover of 6.44 times compared to 4.08 Eimes for those female entrepreneurs who did not consider establishing credit as a problem (Group 4).

Regression analysis was used to test Hypotheses 5 and 6 . Reporting and discussion of results is presented for both hypotheses.

Hypothesis 5: Hours Worked Per Week (M49)
"The average Einancial perEormance 0 E Emale encrepreneurs increases as the numer 0 ( hours worked per week increases."

```
    The regression model is: }Y=30+51 X
where; Y = dependent variables (strategic proミit model ratios)
    X = hours worked per week.
The null hypotiesis H : B1 = 0.
For hypothesis 5, none of the dependent variables were significant
(see Tajle 55 in the Appencix). Therefore, the null hypothesis, that
there is no significant diEference in the average Einancial performance
of Eemale entrepreneurs who works more hours per week and those femaie
entrepreneurs who work less hours per week, is accepted.
M%Otinesis 5: Managerial Em-3:-3nce (M50-M59)
"The average Einancial performance of Eemale entrepreneurs
    increases as the years of managerial experience increases"
The regression model is: Y = 50 + 51 X
where: Y = dependent variables (strateçic proミit model ratios)
    z = years of managerial experience
#6.1: :456: Y = dependent variables
                                    (strategic proEit model ratios)
    X = prior years of managerial experience
#6.2: M59; Y = dependen= variables
                                    (strategic proEit model ratios)
    Z = vears of managerial experience
                        curing ownership
:%.3: M5859; Y = dependent variables
                                    (strategic profit model ratios)
    X = total years of managerial experience
The null nypothesis Ho: El = 0.
Eor Eypotheses 6.1 and 6.3 there were no signiEicant results (see Table 55 in the ippencix). For Hypothesis 6.2 , rate oz rezurn on net worth (1488) was sicnificant but in the wrong direction. The P-value oE . 0960 was less thar the 10 percent level oE sigmiEicance, incicating
```

that there is a sigrificant difference in rate cf return on net worth of Eemale entrepreneurs with more years during ownership and those female entrepreneurs with less years. However, to accept research hypothesis 6.2. 51 must be both signiEicant and positive. The estimated regression equation shown in Table 33 shows that the rate of return on net worth decreases with years of managerial experiences, thereミore, Hypothesis 6.2 is rejected since 31 is negative.

TMSLE ミ3
RESUITS OE REGRESSION TEST
Hypothesis 6.2
Estimated

$$
Y \frac{\text { Recression }}{=} \frac{\text { Equation }}{104.99} \quad \frac{\text { R-square }}{.0250} \quad \frac{\text { P-value }}{.0960}
$$

```
                    Exploratory Tests
    Exploratory tests of other entrepreneurial characteristics which
were statistically signi\xiicant are discussed in this section. No a
priori hypotheses were stated for these characteristics. Ine
signiEicant MiNOVM tests are discussed Eirst Eollowed by separate
discussions of regression and correlation analysis.
Mul¿ivariate Analysis of variance
    nge (M3Group)
    MFNOVA
    SigniEicance Level Calculated P-value
    Overall eEEect .10
    .0027
    ProEit margin (M44) .10 .0007
```

TASLE 34
MEANS IEST FOR AGE (MEGroup)


#### Abstract



Means with tie same letter are not significantly different.

Zhe wilks lambda p-value oE . 0027 incicates that age does result in siçiEicant overall diEEerence in Einancial perEormance. The means test showed that the sisniEicant diEEerence occurs in the average proEit margin betweer Eemaie business owners $2 \delta$ years of age or less anc female business owners 30 years of age and ajove. The average prosit margin of the Eormer (Group 3) is a negative $-49 \%$ anc tine average proミit margins oE the latter groups are $23 \%$ (Group 1) and $10 \%$ (Group 2). Since there were only 6 subjects in Group 3 , inferences should be made with extreme caution.




TABLE 35
MEANS TEST FOR SEERING SALESMRNSHIP ADVICE (M52Group) (From Conferences, Seminars, Government, Professionals)

| DiEferences* Mean | Std. De | $\underline{n}$ | Seek Salesmanship Àvi |
| :---: | :---: | :---: | :---: |
| ieverage ratio |  |  |  |
| $\pm \quad 0.409$ | 2.805 | 38 | 1. Seek outside advice |
| B $\quad 1.386$ | 1.609 | 47 | 2. Do not seek outside acivice |
| RR on ne: worth |  |  |  |
| C -85.293 | 442.033 | 38 | 1. Seek outside acvice |
| D 124.753 | 254.264 | 47 | 2. Do not seek outside advice |



The Wilks' iamida statistic p-vaiue of .0717 incicated that whether or not a business owner seeks outside business acivice does result in sioniEicant diEEerences in Einancial performance. The means test showed that the significant cifferences were in the mean vaiues of the leverage ratio and rate of return on net worth. Those Eemale business owners who stated that they dic not seek outsiae advice regarding their business had on average hisie: leverage ratios, and had higie: average return on net worth.

Susiness Growth (M52Group)
"is a business owner, how important is growth of business?"
1 = Not very-slightiy important
$4=$ Moderately-extremely important

| MANOVA | Significance Level Calculated P-value |  |
| :--- | :---: | :---: |
| Overall effect | .10 | .0010 |
| RR on assets (M45) | .10 | .0229 |

TASLE 36
MEANS TEST FOR SÜSIVESS GROWTH (:G62GROUP)

| Differences* |  | Std. Dev. | $\underline{n}$ | Importance of Business |
| :---: | :---: | :---: | :---: | :---: |
| RR on assets |  |  |  |  |
| A | 185.217 | 363.851 | 21 | 1. Not very-slightly important |
| E | $6 \pm .523$ | 172.606 | 89 | 4. Moderately-extremely important |

लMeans with the same letter are not signiEicantly different.
nccording to the wilks' lambda statistic, attitude Eoward business growth does result in signiEicant diEEerences in Einancial perEormance. The means test showed that the significant diEference is in the mean values of rate of return on assets. Those female business owners who personally Eeel that growth of business is not very or oniy slightly important have greater average rate of return on assets than those who Eeel that growth of business is moderately or extremely important.

Interesting work (M68Group)
"The work (in my business) is very interesting."
$i=$ Somewhat-very true
$4=$ Not very-not at all true

TASLE 37
EREQUENCY DISTRISUTION EOR INTERESTING WORK (M66Group)

| $\frac{N}{0} 5$ | "work is Interesting" |
| ---: | :--- |
| 2 | 2. Somewhat-very true |

Ninety-eight percent of the respondents stated that their work was interesting, however, no inferences can be made since tinere were only two sujjects in tie second group. who do not believe this to be true.


TMBLE 36

MENNS TEST EOR SUSINESS ATTITUDE (1:72Group)

| Differences* | Mean | Std. Dev | n | "Business Inteferes With Home" |
| :---: | :---: | :---: | :---: | :---: |
| Asset Euraover |  |  |  |  |
| i | 6.046 | 8.401 | 31 | 4. Not very-not at all true |
| 5 | 3.938 | 4.278 | 77 | 1. Somewhat-very true |
| RR on inssets |  |  |  |  |
| $C$ | 150.286 | 384.620 | 31 | 4. Not very-not at all true |
| D | 56.464 | 106. 608 | 77 | 1. Somewhat-very true |

파eans with the same ietter are not signiEicantiy EiEEerent.

The Wilks' lamida statistic incicates there is a signiEicant ciEEerence in Einancial perEormance between those Eemale business who beiieve their business takes away from work at home and those who not believe this to be true. According to the means test, the diEferences lie in asset turnover and rate of return on assets. The average asset Eurnover and average rate o£ return on assets is higher for those Eemale business owners who do not feel that their business makes it difficult to do the things at home that need to be done. Comparing these two groups with the number of hours worked per week, the Eemaie business owners who do not Eeei business takes away from home on average work
35.3 hours per week, whereas the Eemale business owners who Eeel that business takes away from home work an average of 46.2 hours per week.

Obstacles in Business (M108, M112, M115, M122, M125-M127 Groups)
(M108Group)
"Lack of previous business experience presented an obstacle in starting or operating my business."

1 = moderate-major obstacle
$4=$ slight obstacle-not a problem

| Mavove | SigniEicance Level Calcuiated P-vaiue |  |
| :---: | :---: | :---: |
| Overall eEEect | . 10 | . 0728 |
| Ieverage ratio (Mc7) | . 10 | . 0175 |
| RR on Net worth (M46) | . 10 | . 0197 |

TABLE 39
UEANS TEST "LACK OE EUSINESS ERPERIENCE"

| DiEEerences* Mean |  | Std. Dev. | n | "Lack oE Susiness Experience" |
| :---: | :---: | :---: | :---: | :---: |
| Leverage :ȧio |  |  |  |  |
| is | 0.389 | 3.082 | 33 | 1. Moderate-major obstacle |
| 3 | 1.491 | 1.534 | 74 | 4. Siight oistacle-no probiem |
| RR on Net worth |  |  |  |  |
| C | -52.480 | 495.328 | 33 | 1. Moderate-major ojstacle |
| D | 98.720 | 211.169 | 74 | 4. Siight obstacle-no probiem |

The Wilks' lamida statistic indicates that there is a signiEicant diEference in average financial pe:Eormance between those Eemale entrepreneur who consider lack of business experience as an obstacle and those who do not consider this an obstacle. The signiEicant difference Lies in the average leverage and rate of return on net worth. Those Eemale business owners who did not feel that lack of previous business experience presented an obstacle hac greater average leverage anc rate of reこurn on net worth.

```
(M112Group)
"DiEEiculty in obtaining expert adrice presented an obstacle in
starting or operating my business."
```

    1 = Moderate-major obstacle
    4 = Slight obstacie-not a problem
    | MiNOVA | Significance Level | Caiculated P-value |
| :--- | :---: | :---: |
| Overall effect | .10 | .0939 |
| Profit margin (M44) | .10 | .0280 |
| Bsset Eurnover (M45) | .10 | .0030 |
| RR on assets (M46) | .10 | .0908 |

TAELE 40

MEANS TEST FOR OSTEINING ADVICE


```
(M115Group)
"DiExiculty in obtaining contracts presented an obstacle ir
    starting or operating my business."
    1 = Moderate-major obstacle
    4 = Slight obstacle-not a problem
\begin{tabular}{lcc} 
MnNova & Significance Level Caicuiated ?-value \\
Overall effect & .10 & .0610 \\
Profit margin \((M 44)\) & .10 & .0940 \\
isset turnover (M45) & .10 & .0623
\end{tabular}
```

TRELE 41
MEENS IESE FOR OSTEINLNG CONTRECTS


Neans with the same letter are not signiEicantiy cizEferent.

There is a sigmificant diEEerence in average Einancial pe:Eormance between those Eemale business owners who consider difinculty in obtaining contracts an obstacle and those female business owners who do not consider this a problem. The means test indicate that the differences lie in profit margin and asset turnover. The average profit margin ( $18.5 \%$ ) for the latter is greater than the average prozit margin $(-i .0 \%)$ Eor the Eormer group. This situation is reversed for the asset turnover. The average asset turnover for female business owners who consider contracts a problem is greater than those who do not consider this a prosiem.
（M122Group）
＂Einancial matters（loans，budgets，money，etc．）presented an obstacle in starting or operating my business．
$1=$ Moderate-major obstacle
$4=$ slight obstacle-not a problem

| Minova | Significance ievel | Calculated P－vaiue |
| :--- | :---: | :---: |
| Overall effect | .10 | .0836 |
| Profit marcin（M44） | .10 | .0670 |
| Asset turnover（M45） | .10 | .0518 |
| RR on net worth（M48） | .10 | .0601 |

TジミLミ 42
MEANS TESI EOR EINGNCEAI MATTERS

| DifEerences＊ | Sta．Dev． | n | ＂Financial Matters Presented．．．＂ |
| :---: | :---: | :---: | :---: |
| Profit margin |  |  |  |
| A $\quad-1.052$ | 29.912 | 23 | 1．Moderate－major obstacle |
| $3 \quad 19.177$ | 23.654 | 83 | 4．Slight obstacle－no problem |
| nsset turnover |  |  |  |
| C 6.761 | 9.241 | 23 | 1．Moderate－major oistacle |
| D 4.196 | 4.389 | 83 | 4．Slight obstacle－no proilem |
| RR on net worth |  |  |  |
| 玉－-57.470 | 430.264 | 23 | 1．Moderate－major obstacle |
| 三 80.184 | 296．847 | 83 | 4．Slignt obstacle－no problem |

The wilks＇lambda statistic incicated that there is a signiEicant diEference in average Einancial performance between Eemale business owners who Eine Einancial matters to be an obstacle and those who do not consider this a problem．The means test shows that the signiEicant differences lie in proEit margin，asset turnover，and rate of return on net worth．The average proEit margin and average rate of return on net worth was greater for those Eemale business owners who did nct consider Einancial matters a problem．This situation was reversed Eor asset turnove：．

```
(:125Group)
"Dealing with customers presented an obstacle in starting or
    operating my business."
```

$1=$ Moderate-major obstacle
$4=$ Slight obstacle-not a problem
MiNOVA SigniEicance Level Calculated p-value
Overall e£fect
ìsset Eurnover (M45) . 10 . 0001
RR on assets (M4́) . 10 . 0001

TASLE 43
MENS IEST EOR DEMIING WITH CUSTOMERS

| Difeerences* Mean |  | Std. Dev. | n | "Dealing With Customers" |
| :---: | :---: | :---: | :---: | :---: |
| isset Eurnover - - - - |  |  |  |  |
| A | 13.214 | 14.226 | 7 | 1. Moderate-major obstacle |
| 5 | 4.177 | 4.333 | 98 | 2. Slight obstacle-no problem |
| RR on assets |  |  |  |  |
| C | 423.960 | 677.615 | 7 | 1. Moderate-major obstasle |
| D | 60.975 | 139.319 | 98 | 4. Slight obstacle-no prosiem |

xheans with the same letter are not signiEicantly different.

There is a significance difference in average Einancial performance between those Eemale business owners who consider dealing with customers an oistacle anc those who do not consider this a problem. The means test shows that signiEicant diEferences lie in asset turnover and rate or return on assets. The asset turnover and rate of return on assets is greater Eor those female business owners who consider dealing with customers a moderate to major obstacle.
(M125Group)
"Knowing who the peopie are that may buy my product presented an obstacle in starting or operating my business."

```
Z = Moderate-major obstacle
4 = Slight obstacle-not a problem
```

| manova | Significance Level | Calculated-p-vaiue |
| :---: | :---: | :---: |
| Overall effect | . 10 | . 0204 |
| Prosit margin (1444) | . 10 | . 0156 |

TABLE 44
MEANS TEST EOR KNOWING CUSTOMERS

| Differences* | Mean | Std. Dev. | $\underline{n}$ | "Knowing Who Customers ine" |
| :---: | :---: | :---: | :---: | :---: |
| Profit margin |  |  |  |  |
| A | -11.144 | 105.545 | 15 | 1. Moderate-major obstacle |
| S | 19.751 | 24.140 | 86 | 4. Slight obstacle-no probiem |

지eans with the same letter are not signiEicantly EiEEerent.

There is a significant difference in average financial performance between female business owners who consider knowing their target market an obstacie and those who do not consider this a problem. The means showed that the difference is in average profit margin which is greater for those Eemale business owners who ao not consider knowing their target market a problem.
(M127Group)
"Aduertising presented an obstacle in starting or operating my business."
$1=$ Moderate-major obstacle
$4=$ Slight obstacle-not a probiem

| manova | Significance | Level Calculated P-value |
| :---: | :---: | :---: |
| Overall effect | . 10 | . 0811 |
| ProEit margin (M44) | . 10 | . 0118 |
| asset turnove: (M45) | . 10 | . 0805 |
| RR on assets (M46) | . 10 | . 0434 |

TABLE 45
MENS TEST FOR ADVERTISING

| $\frac{\text { DiEEerences* }}{\text { ProEit marain }}$ | Mean | Sta. Dev. | $\underline{\square}$ | "Advertising Presented..." |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| A | -6. 420 | 91.921 | 21 | 1. Moderate-major obstacle |
| 3 | 20.438 | 24.122 | ع3 | 4. Slight obstacle-no problem |
| Asset Surnover |  |  |  |  |
| C | 2.770 | 1.823 | 21 | 1. Moderate-major obstacle |
| D | 5.282 | 6.434 | 63 | 4. Slight obstacle-no problem |
| RR on assees |  |  |  |  |
| E | -5.523 | 128.191 | 21 | 1. Moderate-majo: obstacle |
| F | 106.438 | 245.384 | 83 | 4. Slight obstacle-nc problem |

The Wilks' lamida statistic incicates that there is a sigmificant diEEerence in average Einancial performance between Eemale business Owners who consider advertising an obstacle and those who do not consider this a problem. The means test sinows that the signiEicant difference iie in profit margin, asset turnover, and rate of return on assets. In all cases, the average Einancial performance was greater for the Eemale business owners who dic not consider advertising a problem.

Pegression analysis
Table 55 in the Appencix shows the p-values for all variables tested using regression anaiysis. One characteristics was signiEicant: percent of business owned (M22). Eor this characteristic, the profit margin (M44) and the leverage satio (M47) were signiEicant. The estimated regression equations are reported in Table $4 \sigma$ and the means and standard deviations are reported in Table 47.

## TASIE 46

RESUITS OF REGRESSION TEST
Percent of Business Owned (:122)

| Estimated Regression Equation |  | R-Square | P-Value |
| :---: | :---: | :---: | :---: |
| $Y=-19.29+0.39$ |  | .0417 | .0316 |
| $Y=2.72+0.017$ |  | .0373 | .0422 |

TMEEE 47
MENNS TEST FOR PERCENT OE EUSINESS OWTJED

| DSEEerences* | Mean | SEd. Dev. | $\underline{n}$ | \% Susiness |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |
| A | -6. 917 | 86.634 | 22 | 1. < $95 \%$ |
| S | 21.142 | 25.641 | 89 | 2. > $94 \%$ |
| Leverage ratio |  |  |  |  |
| C | 2.889 | 2.092 | 22 | 1. < $95 \%$ |
| D | 0.979 | 2.190 | 89 | 2. > $94 \%$ |

Fheans wizth the same ietter are not signiEicantiy diEEErent.

Correlation Analysis

A series oE íipolar adjectives were useċ to incicate the attitude oE the Eemale business owner toward her present life. The correiation coefincient $E$ and the signiEicant p-values are snown in Tables 40-49.

ThisIE 48
"HOW DO YOU EEET ASOUT YOUR PRESENT LIFE?"
$\begin{array}{ccccccc}\text { Positive acjective } & & & \text { Negative E.jjective } \\ 1 & 2 & 3 & 4 & 5 & 6 & 7\end{array}$

| Profit | nsset | $\overline{R R}$ on | iever- | RR on |
| :---: | :---: | :---: | :---: | :---: |
| Margin <br> (M44) | T/ove: <br> (M45) | àssets <br> (M46) | age (M47) | Net worth (M48) |

Ma7 Interesting..boring -. 17
— 058
M89 Easy..harci
-. 17
.091
M90 Worthwhile..useless +.17
.085
M93 Hopeful..discouraging -. 19
.058
M94 Eree..Eied down +.17
.075
MO5 Rewardinc..discouraging -. 20
M96 Brings out best.. coesn't give a chance .039
doesn't give a chance +.33
.001
Eor the significant variables listed in Table 46, the tests incicated that there was a sligit negative correlation between Einancial pe:formance and the above ratings in atさitude 0 f the femaie business toward her present life. For average pro£it margin, the correlation coefficient $y$ ranged Erom -.17 to -.20 , and indicated that as the femaie business owners rated their present life as interesting, enjoyable, hopeful, and rewarding there was a slight positive association with profit margin. Conversely, when the ratings moved toward boring, miserable, discouraging, and disappointing, there was a negative association with profit margin. This was aiso true for average rate of return on assets anc atさitude =oward life as easy or hard (MEЯ).


#### Abstract

There was a slight positive correiation between asset turnover and several bipolar adjectives. Female business owners who rated Eheir  give the owner a chance ( $\underline{=}=+33$ ) , had greater average asset surnover. The reverse was true when the owners Eelt that their present life was worthwhile and brought out the best in them. This same relationship occurred for the leverage ratio ( $\underline{=}+.17$ ) and the attivude present life as being sree or tiec down (M94).


TASIE 49
":OW SETISEIED ARE YOU WITH DIEEERENT EREAS OE YOUR PRESENI IIEE"


| Profit | Asset ${ }_{\text {E }}$ | $\frac{p-v a l}{R R \text { on }}$ | Lever | RR on |
| :---: | :---: | :---: | :---: | :---: |
| Marcin | Tlover | Assets | age | Net Worth |
| (M44) | (M45) | (M46) | (1447) | (M\&6) |



As shown in Table 49, there was a slight positive correlation ( $\underline{=}=$ +.19) between profit margin and the female business owners' attitude toward their business. The profit margin increased sligntly as the rating of the business increased, and conversely, the prozit margin decreasec sligitiy as the rating of the business decreased. There was a
slight negative correction ( $£$ ranged from -.17 $50-.21$ ) between asset turnover and attitude toward housing, family life and life as a whole. inset turnover decreased as the ratings of housing. Eamily life and life as a whole increased. The reverse occurred when the ratings cecreased.

CHPPTER V

SUMMARY AND CONCIUSIONS

Introcuction
The study adiressed the general research question: Is there an association between entrepreneurial characteristics and Einancial performance using the ratios of the strategic prosit model. This chapter presents a summary of the study, and conclusions of the conEirmatory anc exploratory analyses.


#### Abstract

Summary $\dot{A}$ review of the literature on entrepreneurship summarized the progression of previous research which providec the direction for the study. Enteppreneurial research began as historical studies of the economic role of entrepreneurship, then case stucies of well-known entrepreneurs were wrieten. These were followed by investigations of personality and other personal characteristics of the entrepreneur. plus general characteristics of the Eirm. These personal anc firm characteristics were mostly qualitative. Later, various Einancial data was $\ddot{a}=$ ci with otrie: entrepreneurial characteristics to evaluate success or failure. Stucies then began to focus on minority groups.


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is a result of the women's movement and actions taisen by president Carter, studies of Eemales in business received attention, anc cails were made for additional studies of female business owners. The few studies of female entrepreneurs in the United States found that they exhibited the same characteristics as male entrepreneurs.
Erom this review, several observations were made: (1) most of the studies included only males; (2) the entrepreneurial characteristics consistently identisied in the studies could be categorized into several major ciasses; (З) the Einancial data generally included single items such as gross sales, net profit, or amount of loan; (4) stucies oE causes and relationships were still in exploratory stages; (5) women Eace some oostacles and problems that diEfer Erom those Eaced by men; and (5) stucies of Eemale business owners were few.
Objectives
The primary objective of the study was to evaluate the relationsinip between entrepreneurial characさeristics and overall Einancial pe:Formance aizth a single proEit planning equation u=ilizing the income statement and the balance sheet. The ratios of the strazegic profit model provided this frame of reference.
Secondary objectives were to increase the data base needed to. define the dimensions of certain problems of female business owners; to provide information that would be usefui to current and potential female entrepreneurs; to conEirm the fincings of previous research of female business owners; to expand on previcus research; and to provide cirection for Eurther research.
```


## Procedures

The population consisted of female business owners in oklaioma. For the purpose of the study, a female business owner was defined as a female who owned at least $10 \%$ of a business of which $50 \%$ or more was owned by females, and who participated in operating the business.

The data was collected by means of a self-explanatory mail questionnaire that included six major classes of entrepreneurial characteristics: personal characteristics, firm characteristics, management Eactors, obstacles, aこtiさudinal Eactors, and Einancial inEomation.

Since tinere was no comprehensive cirectory of female business owners in Oklanoma, a directory was developed from various sources. Erom the intial mailing and subsecuent Eollowup, 331 questionnaires were received for a response rate of $18.2 \%$. Of these questionnaires, 111 met the criteria necessary Eor inclusion in the study: (I) female owne: as previously defined, and (2) complete financial information.
ill nonmetric responses were assigned numeric codes, and statistical procedures were performed using the Statistical Anaiysis System (Sas). The Eramework of the study divided all variabies into independent and dependent ciassifications. Single independent variables consisted of various entrepreneurial characteristics, and the multiple dependent variables were the ratios of the strategic profit model.

The statistical techniques deemed most appropriate for the conEirmatory and exploratory hypotheses were one-way multivariate anaiysis of variance, simple regression analysis, and correlation anaiysis. The major fincings of the study were presented in Chapter IV.

Sackgrounc of Responcients
The respondents were equally distributed between native born business owners and those born outside Oklahoma. Ninezy-six percent of the Eemale business owners were white and $67 \%$ were in the 30 to 49 age category. Forty-three percent were Eirst-born or only children and $24 \%$ were the youngest child in the Eamily. There was a low Eertility rate (1.8) among these entrepreneurs: $17 \%$ had no chiliren and $57 \%$ had 1 to 2 children. Eifty-Eive percent had a college or gracuate degree or had done some graduate work; $27 \%$ had an associate degree or had done some college work. Eifty-three percent of the respondents were in business, adminisErative or professional Eields. As a class, the Eemale business owners had more formal education than their parents, and tendec to major in areas that more closely matched that of the maie parent. is majority of the Eemaie business owners had entrepreneurial role models in a Eamily member, close relative, or other person who started his own business.

Consistent with prior studies of female business owners, the major types of businesses owned were retail and service firms. Eigiaty-seven percent of the firms were of these two groups: $50 \%$ were professional service firms, $14 \%$ were personal service firms, and $23 \%$ were retail stores. The majority of these businesses were started after the 1900s: $52 \%$ in the 1970 s, and $30 \%$ in the $1980 s$. Over $50 \%$ of these firms were sole proprietorship. Incluaing partnerships, total non-corporate form of organization totaled $61 \%$.

In general，the firms represented in the sample were small in size． Eighty percent of the Eirms had few or no emplovees． $49 \%$ had 1 to 5 Euli－time employees anc $31 \%$ had no full－time employees．Many Eimms used part－ime help．a majority of the Eirms had sales of less than 5100，000．Net proEit ranged Erom a negative percent to greater than 40\％．EiEty－eight percent had assets of less than 550，000．Eighty－Eive percent of the businesses were located outside the home．
i majority of years of manaçeriai experience had been accuired while business owners operated their own business．Most of the Eemale business owners worked 35 or more hours per week，felt comiortabie in hancling of business matters，and had positive attitudes toward Ehemselves anc tieir business．


Several of the exploratory hypotheses were signi£icant：ace， percent of business owned，seeking salesmansinip ačice，i4 aこさiさuainal factors，and 7 obstacies．Tabie 52 in the appendix iists the


#### Abstract

sigmificant confirmatory and exploratory hypotheses. For the characteristics testec using multivariate anaiysis of variance (MNOVA) that resulted in a significant Wilkes lanbaa p-value, tie individual p-values are given for the significant ratios of the strategic profit model. For the characteristics tested with regression and correlation analysis, the individual p-values of the sisnificant ratios of the strategic profit model are also included in Table 52 . iccording to this こable, proミiz margin (M44) and asse: Eurnover (M45) were siomiEicant more Erequently than the other ratios of the strategic profit model. For the Eemale business owners in this study, margin management and asset management were the principal profit management strategies utilized. The Erequency of signiEicance for each ratio is given in the Eoilowing $=a b l e$.


TASLE 51
EREQUENCY OF SIGNIEICANT R:TIOS

| Individual Ratios | Erequency |
| :--- | ---: |
| Erofit Margin (M44) | E6 Eimes |
| Esset Iurnover (M45) | 12 times |
| Rate of Return on Assets (M46) | 6 times |
| Leverage Ratio (M47) | 4 times |
| Rate of Return on Net Worth (M48) | 4 times |

To analyze the results of the tests, various confismatory and exploratory characteristics were crossed with other significant characteristics. Some of the cross-tabulations are shown in Iables 59-67. Exom this analysis, a general picture of the majo:ity of the Eemale business owners in this study can be drawn. The cross-tabulations and the data results in Chapter IV are the basis for
the discussion and charts that follow. Conclusions of the confirmatory analyses and the significant exploratory analyses will be discussed together by groups of characteristics: personal characteristics, firm characteristics, management factors, obstacles; and attitudinal factors.

Personal Characteristics
Eersonal characteristics identified the majority of the women as well-educated, in the 30 to 49 age group, either the oldest or youngest child, with 1 to 2 or no children. As shown in Figure 5, the under 30 age group and the 30 to 49 age group had more education than the 50 and over age group.

EIGURE 5
EDUCATION AND AGE


By order of birth, a greater percentage of the middle child group had no college education. Greater percentages of the only child, the
oldest child, and the youngest child groups had a college education. Figure $\sigma$ shows the level of education by birth order groups.

FIGURE 6


In all educational groups, a majority of the female business owners had 1 to 2 children: $63 \%$ for the 'college-graduate' group, $50 \%$ for the 'some college' group, and $57 \%$ for the 'no college' group. Figure 7 shows the number of children in the three educational groups.

EIGURE 7



#### Abstract

Age, birth order, and level of education were examined using multivariate analysis of variance (MNOVA). The results were contrary to expectations. It was expected that birth order position and level of education would result in differences in average financial performance. However, there was no overall significance in either of these characteristics. In the exploratory analyses, age had overall significance and the profit margin ratio was significant. The 30 to 49 age group and the 50 and above age groups nad greater average proミit margins thar the under 30 age group. There were only $\sigma$ respondents in the under 30 age group. Four of six of these business owners owned personal service Eirms, and personal service firms had the lowest profit margin of the four types of businesses owned. fowever, because of the small size of this group, little inferences can be made. In general, since a majority of the Eemaie business owners in this study share these same personal characteristics no differences in Einanciai performance could be determined.


Eirm Characteristics
The majority of the coliege-educated Eemale business owners owned professionai service firms, and were organized primariiy as sole proprietorships, owning $95 \%$ or more of their businesses. Over $80 \%$ of the Eirms were located outside the home. For all types of businesses, the size of the Eirm was very small. Over $60 \%$ had no employees or 1 to 2 employees.

Sixty-five percent of the women who had completed coliege or who had done graduate work owned a proEessional serviee Eirm; $40 \%$ of those
with some college education also owned a professional service firm. In contrast, $63 \%$ of the women with no college education cwned retail stores.

FIGURE 8
TYPE OF BUSINESS AND EDUCATION


While the majority of the business owners owned 95 to $100 \%$ of their business, Figure 9 shows that more of the professional firms had 95 to $100 \%$ ownership.

FIGURE 9


The type of business and location were tested using Minove, and tie percent 0 E business ownership was tested with regression analysis. The type of business and the persent of business ownership were signifieant. but business location in the home or outside the home did not result in signiEicant diEferences in Einancial performance.

For the type of business, it was expected that the professional service and rezail Eirms would have greazer average Einancial performance than other types of Eirms. Results of the statisticai tests incicatec that there was an overall sicmiEicant diEEerence between these groups, and the source of the diEference was in average proEit marsin. In Chapter IV, Iable 30 showed that professional service firms and retail stores had greater average proEit margins than personal service Eirms and otiner miscelianeous Eirms. However, the average profit margin OE the other misceilaneous Eirms was not significantly different Erom the proEessional Eirms, retail stores, or the personal service Eizms. The conclusion is that there is some association between type of business anc Einancial performance in terms of profit margin. Prcfessional firms and retail stores have greater average profit margins than personal service firms and other miscellaneous firms.

For percent of business owned, the estimated regression equations in Table 46, Chapter IV, showed that the average proEit margin increased as the percent of ownership increased, and the average leverage ratio decreased as the percent of ownership increased. iccording to Tabie 47, the average prosit margin of the women owning $95 \%$ or more of the jusiness hac greater average profit margin than those women owning less
than $95 \%$ of the business. The reverse was true for the ieverage ratio. The women who owned $95 \%$ or more of the business had a lower average leverage ratio than those women owning less of the firm. This means that the women owning more of the firm have less debt. The conclusion is that the percent of business ownersnip is associated with Einancial performance. Increased ownership restits in increased profit margin and Iower debt.

Management Eactors
The management Eactors iden:iEiec the business women as hard workers, wino had acguired most of their managerial experience wille operating their own business, and who sought outside advice regarding various aspects of business. Eighty percent of the Eemale business owners worked $£ 5$ or more hours per week, and $52 \%$ worked more than 40 hours per week. The average for all business owners was 44 hours per week. Eigure 10 shows that more of the women with no college eciucation worked more tinan 40 hours per week.

FIGURE 10

EDUCATION AND HOURS WORKED


Forty-three percent had no managerial experience prior to business ownership, and $32 \%$ had acquired 1 to 4 years of managerial experience. Nine years was the average number of years of managerial experience acquired during business ownership. Combining total years of managerial experience, 12 years was the average. As shown in Figure 11, regardess of the number of years of managerial experience, most of the business owners worked over 40 hours per week.

The women who had acquired more years of managerial experience while operating their own business had less college education than those women who had acquired less years of managerial experience. Figure 12 shows thet a greater percentage of the women who had acquired less than 10 years of managerial experience had completed college or done graduate work.

## FIGURE 11

MANAGERIAL EXPERIENCE ACQUIRED DURING BUSINESS GWNERSHIP AND HCURS WORKED


FIGURE 12
MANAGERIAL EXPERIENCE ACQUIRED DURING BUSINESS OWNERSHIP AND EDUCATION


It was expected that the more hours the business owner segnt in operating he: business the greater would be the Einancial performance. However, the statistical tests did not procuce any signiEicant results among the ratios of the strategic profit model. For these respondents, the conclusion is that the number of hours worked per week does not resul: in signiEicant difミerences in average financial per£omance.

It was expected that the more years of managerial experience that the Eemale business owner had acquired, the greater would be the Einancial performance. For managerial experience accuired prior to business ownership and totai years of managerial experience, none oE the ratios of the strategic profit model were significant. For years of manageriai experience acquired during business ownership, rate of returr on net worth was significant but in the wrong direction. EEter the start-up year, rate of return on investment was hignest for those female business owners with 2 to 4 years ofmanagerial experience, anc thereaEter decreased as years of managerial experience increased.

TESIE 50
RETE OE RETURN ON NET WORTY BY YERRS MRNAGERIAI EXPERIENCE ACQUIRED DURING BUSINESS OWNERSEIP

| Years mangerial experience | $0-1$ | $2-4$ | $5-9$ | $10-19$ | $>19$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Rate of return on net worth | $-42 \%$ | $114 \%$ | $68 \%$ | $49 \%$ | $-120 \%$ |

This decrease in rate of return on net worth could be related to the level of education and the year the business started. The women who had acouired more years of experience had been in business for a longer period of time. Eighty-six percent of the firms estailished prior to
the 2950 s had accuired 20 or more years of managerial experience. 0 : the women who had been in business longer, Eewer had completed college or done graduate work. Eifty-seven percent of the women who started business prior to 1950 had no college education. For the respondents, the conclusion is that average return on net worth is less for the Eemale business owners who have accuired more years of managerial experience while owning their business, particularly if the business owner has iess ecucaさion.

In managing their businesses, $75 \%$ of the business owners sougit advice or assistance Erom workshops, seminars, government programs, or professionals. Of those women who did not seek outsice assistance, most worked part-time ( 30 hours or less). Only one of the business Eopics--salesmansinip--resulted in an overall signiEicant ciEEerence in Einancial performance. EiEty-five percent of this group statec that they did not seek any Eipe of outside adrice or assistance regarding salesmanship. The results of the MinNOV tests, Table 35 in Chapter IV, showed that the business owners who did not seek outside acivice had a higher average leverage ratio (M47) and higher average rate of return on net worth (M48). Eigures 13 and 14 identify this business owner by education, type of business owned, and lack of business experience. of those who stated that they did not seek outside advice about salesmanship, $67 \%$ were college graduates, $62 \%$ owned professional service Eirms, and $50 \%$ stated that lack of business experience was an oostacle. 0 the types of business owned, a greater percentage ( $71 \%$ ) of the personal service Eirms stated that they cid seek outside advice or
assistance about salesmanship. As shown in Figure 14, lesser percentages of the professional service and retail firms sought outside advice or assistance about salesmanship.

## FIGURE 13

SALESMANSHIP ADVICE , EDUCATION.
TYPE OF BUSINESS, AND LACK OF BUSINESS EXPERIENCE


EIGURE 14
Salesminship advice and type of business


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The conclusion is that seeking outside acuice or assistance about saiesmanship is affected by level of education and type of business owned. Outside acivice and assistance about this topic is net as critical to business women who own professional firms and have a coliege education.
Obstacles
Eossisiy as a result of the higin educational level of the respondents, most ojstacles were rated as a siight oistacle or no problem. : However, several ojstacles testea aizth Minove hac overall signiEicance tiat resulted in diEferences in Einancial perEormance. These obstacles were: lack of business experience, raising capital, obtaining advice, obtaining contracts, estabiisming credit, Einancial maťers, cealing with customers. knowing who customers are, and aduertising.
Two conEirmatory hypotheses, raising capital anc establisining creditt, were examined used MiNOVA. It was expected that the average Einancial performance 0 E Emale enzrepreneurs wino encountered raising こapitai anc establishing credit as utstāles worla be less than female entrepreneurs who did not consider these as problems. Eoth of these hypotineses dic produce overall signisicance. DiEEerences in incividual ratios of the strategic profit model occurred in profit margin (M44). asset turnover (M45), and rate of return on net worth (M48). Those business owners who considered raising capitai as a moderate to major obstacle had a negative rate of return on net worth ( \(-91.12 \%\) ) The business owners who considered raising capizal as a siigit obstacle or
```

no problem had a positive rate of return on net worth of $98.67 \%$. Extreme negative values in the first group and extreme positive values in the second group produced these extreme averages. However, as discussed in Chapter III, these extreme values were carefully checked prior to testing. Eigure 15 compares تther characteristics of the female business owners that differentiated the two groups. The women with more college or graduate education ( $62 \%$ ) and who owned professional firms ( $55 \%$ ) had less problems raising capital. Those women who considered raising capital as a moderate to major obstacle had less college or graduate education, had less prior business experience, but considered business growth as importance. In addition, these women also considered financial matters and establishing eredit to be obstacles.

FIGURE 15

RAISING CAPITAL AND OTHER CHARACTERISIICS


For those women who considered establishing credit as an obstacle. profit margin and asset turnover was significant. Table 32, in Chapter IV, showed that the average profit margin was lesser for those who considered establishing credit as a major to moderate obstacle. than for those who did not consider this to be a problem. The reverse was true for asset turnover. The former group had a higher average asset turnover than the latter group. Establishing crecit was more of a problem for personal service firms and other miscellaneous Eirms (Figure 16). Other characteristics in Figure 17 show that the women without a college degree, and who had no prior business experience had more problems establishing credit. These women who considered establishing credit as an obstacle also considered raising capital, obtaining contracts, and financial matters as major to moderate obstacles.

FIGURE 16


FIGURE 17

ESTABLISHING CREDIT AND OTHER CHARACIERISTICS


The conclusion of the confirmatory analyses of raising capital and establishing crecit is that there is an association between those business owner who consider these factors as obstacles and financial performance. Except for asset turnover, profit margin and rate of return on net worth is lower for those business owners who encounter these factors as obstacles.

In the expioratory analyses, the leverage ratio (M47) and the rate of return on net worth (M48) was less for the business owners who considered a lack of business experience as a moderate to major obstacle. Figures 18 and 19 identify differentiating characteristics between these two groups. More of the personal service firms ( $40 \%$ ), retail stores ( $38 \%$ ) and professional firms ( $33 \%$ ) considered lack of
business experience as an obstacle (Figure 18). The majority of the business owners who considered lack of business experience to be a slight obstacle were college graduates, had two children or less, operated their business outside the home, and tended to seek outside assistance. The business women who considered lack of business experience to be an obstacle also considered the following as obstacles: raising capital, dealing with customers, knowing who eustomers are, and advertising (Figure 19).

FIGURE 18

## LACK OF BUSINESS EXPERIENCE-OBSTACLE

AND TYPE OF GUSINESS


FIGURE ig

## LACK OF BUSINESS EXPERIENCE AND OTHER CHARACTERISTICS



Profit margin (M44), asset turnover (M45), and rate of return on assets (M46) was significant for the business owners who considered obtaining ad:ice to be an obstacle. These three ratios were lower for those women who considered this factor to be a moderate to major obstacle (Table 40 in Chapter IV). Figures 20 and 21 identify other characteristics of this group of women. Difficulty in obtaining advice was more of an obstacle for personal service firms ( $40 \%$ ) and miscellaneous firms ( $33 \%$ ). Fewer $n f$ the professional firms and retail firms considered obtaining expert advice to be an obstacle (Figure 20). Those who considered this factor to be an obstacle, tended not to seek outside anvice about salesmansinip, and also considered lack of business experience, raising capital, and advertising to be moderate to major obstacles (Eigure 21).

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FIGURE 20
OBIAINING ADVICE AND TYPE OE BUSINESS


FIGURE 21
OBTAINING ADVICE AND
AND OTHER CHARACTERISIICS


For those women who considered obtaining contracts as an obstacle. the average profit margin (M44) was less than for those who did not consider this to be a problem. However, for the first group, asset turnover was higher than for the second group. Figure 22 shows that the women who considered obtaining contracts as a moderate to major obstacle sought outside advice about salesmanship and also considered the following as obstacles: lack of business experience, raising capital, obtaining advice, financial matters, dealing with customers, knowing who customers are, establishing credit, and advertising.

FIGURE 22
OBIAINING CONTRACIS AND OTHER CHARACTERISIICS


The business obstacle, handling of financial matters, profit margin (M44), asset turnover (M45), and rate of return on net worth (M48) were sionificant. The business owners who considered this to be an obstacle had less average profit margin and rate of return on net worth. However, asset turnover was greater for this group. Figure 23 gives a profile of these business owners. A majority of the women who considered the handling of financial matters to be a moderate to major obstacle were college graduates operating professional firms. These women did seek outside advice about another significant characteristic--salesmanship. In addition, they also considered the following to be obstacles: lack of business experience, zaising capital, obtaining contracts, and establishing credit.

EINANCIAL MATTERS AND OTHER CHARACTERISTICS


Only 7 respondents considered dealing with customers as an obstacle in starting their business. This group of business owners had higher asset turnover (M45) and higher rate of return on assets (M46) than the women who did not consider this factor to be an obstacle. These 7 women also felt that obtaining advice, obtaining contracts, financial matters. and knowing customers, were moderate to major obstacles.

FIGURE 24
DEALING WITH CUSTOMERS AND OTHER CHARACTERISTICS

'Knowing who the customers are' resulted in differences in average profit margin (M44). The average profit margin was lower for the business owners who considered this factor to be a major to moderate obstacle. The majority of these women sougnt outside advice about salesmanship. They also considered several other factors to be
obstacies: lack of business experience, raising capital, obtaining contracts, financial matters, and advertising.

FIGURE 25

KNOWING WHO WIIL BUY PRODUCTS AND OTHER CHARACTERISTICS


Advertising presented an obstacle to approximately $20 \%$ of the respondents, and resulted in signi£icant differences in pro£it margin (M44), asset turnover (M45), and rate of return on assets (M45). For the business owners who considered advertising to be a moderate to major obstacle, all of the three ratios were less than the business owners who did not consider advertising to be an obstacle. Greater percentages of the women owning personal service firms and miscellaneous firms considered advertising as an obstacle. In addition, these women did seek outside advice about salesmanship, and considered as obstecles:
lack of business experience, obtaining expert advice handing of financial matters, and knowing customers.

FIGURE 26

## ADVERTISING AND TYPE OF BUSINESS



FIGURE 27
ADVERIISIÑG AND OTHER CHARACTERISTICS


In general, for the exploratory analyses, Eemale business owners who considered the characteristics iescribed as obstacles had lower average Einancial performance in pro£it margin, rate of return on assets, and rate of return on net worth. Generaliy, the asset turnover was higher even when the other ratios of the strategic prosit model were lower. The conciusion is that there is an association between obstacles encountered by women business owners and financial performance using the ratios of the sirategic prosit model.


With respect to personal attitude, the Eemale business owners Eel: that they generally succeeded at whatever they decidec so do, and Eelt self-confident when in a position to control and direct. over $90 \%$ of the respondents rated these statements of confidence in their abilizy as a '1' (strongly agree) or '2' (agree). It was expected that the average Einancial performance of female entrepreneurs who had a conEident personal attitude toward their ability would be greater than femaie entrepreneurs who dic not consider this important. Eor the statement of selE-conEidence when in control, the rate of return on assets was significant; however the MiNOVA tests showed no overall sigmificant difference in Einancial performance for either of the two statements. rigain, the conclusion for these confirmatory hypotheses is that for these respondents, there is no association between females who Eeel conEident about ineir abiliEies and overall Einancial performance.

Several at=itucinal characteristics of the expioratory anaiyses
 Susiness growth (M62) was significant for rate of return on assets and rate of return on net worth. Soth of these ratios were lower for those who considered business growth important. An explanation could be that expanding for growth could reduce these ratios. Whether or not the business interferes with work at home was also significant for asset turnover and rate of return on assets. Those business owners who Eelt ̇inat business intefered with nome had iower asset iunnover anc rate of return on assezs.

## Summary

A majority of line business owners wino responded to this Guestionnaire shared the same characteristics. Generaily the majority of the responjents were highly educated and owned professional firms. While seven of the 10 hypotheses were rejected, three were confirmed and 24 exploratory characteristics were significant. For the significant characteristics discussed in this chapter, there was an association with several ratios of the straこegic proEit model, particularly profit margin, asset turnover, and rate of return on assets.

## CHPTER VI

## IIMITATIONS RND RECOMENDETIONS

İmizations of the stucy
This stucy is limited to the source and scope of the data. The qualitative and quantitative data was ojtainec srom Eemale business owners in Okianoma. The method oE data collection was a mail survey.

Sampling Erame anc Nonresponse Errors
The method $o$ o determining the samping Erame resuited in several limitations. Since a comprehensive list oミ Eemale business owners in Chiahoma did not exist, several scurces were used so develop a mailing list. The sources included previous surveys in Okianoma, a small out-dazed directory, contacts with business deveiopment organizations, and Eeiephone directories oEmajor cieies in Oklanoma. Ihis list was not veriEied and could have included businesses not owned by Eemales. The discrepancy between the target population and the sampling Erame is a potential source of error. In adidtion, due to time anc cost constraints, nonresponses were not contacted. Thereミore, the results of the study may not be representative 0 E those Eemale business owners who did not respond to the survey.

Validity
Validity refers to how well research measures what it claims $=0$ measure. These results must be internally and externally valid to make projections to the population.

Internal validity refers $=0$ whether the experimental treatment was solely responsible Eor changes in the dependent variable. This study used the survey method to gather primary data, and is not a true experiment. Thus, extraneous influences were not controlled and thei: impact cannot be determined. The purpose of the stucy was not to explain cause-anceeEEect relationships, but rather to study the nature of association between independent and dependent variabies. The independent variables were entrepreneurial characteristics, and the dependent variables were the ratios of the strategic profit model.

External validity is the quality of being able tc gene:ziize the results of the experiment to the real world. The data results indicate that the respondents were a special group of Eemale entrepreneurs. The majority shared similar demograpic characteristics concerning college education, ownership of a small professional serrice or retail firm, and Eew children. They were self-confident, and exhibited positive atさitudes toward tinemselves and their business. In responcing to the survey, these female entrepreneurs apparently desired to express their opinion, and had no reservations about releasing requested Einanciai information. The respondents in this study probably do not represent the majority of the target population of Eemale business owners in Oklanoma, therefore, generaiizations must be made $\because i t h$ caution.

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Experiment-Wise Error Rate
This study involved multiple mean comparisons with the same group of respondents. There is a possibility that the differences between two or more means were sigmiEicant because of an experiment-wise error race. Performing means tests only for those variables that had overall significance does not guarantee that the experiment-wise error will be heic to the \(\alpha\) level. The cell sizes were unequal and could have led to counter-intuitive results.
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## SigniEicance of the Stucy

The Eramework of the study explored the useiulness of the strategic profit model as an overall measure of Einancial performance, and identiEied Einancial management strategies most Erequently utilized by female entrepreneurs. The results of the study indicate that there is an association between various einsepreneurial characteristics of Eemale business owners and Einancial performance.

This study can benefit other female business owners, lencing agencies, government agencies, and groups interested in Eostering Eemale owned enterprises. Female business owners can benefit Erom understancing the nature and implications of Einancial management strategies. $亡=n \dot{i n g}$ and government agencies can benefit by monitoring and evaiuating business performance based on the associations between various entrepreneurial characteristics and the ratios of the strategic profit mociel other interester groups invoiving women business ouners can benefit in utilizing tiese findings to assist anci train femaie business owners.

```
            Recommendations for Euture Research
    The Eincings of this study conEirmed previous studies identiEying
entrepreneurial characteristies. In acdition, this study expanded on
previous studies by exploring the association of these characteristics
with a single profit planning equation as a measure of overall Einancial
performance. Recommendations Eor future research include the foilowing:
    1. Replicãe this stidy with female entrepreneurs in other areas
=0 conEimm the associations and non-associations founc in this s=udy.
    2. Replicate this study with male entrepreneurs to compare with
the findings of female entrepreneurs.
3. Use the Eramework of this study anc small business data Erom government or lencing agencies to explore the relationsinip of this Eran.ework to predicting success or Eailure. In acidition, comparisons could be made between female business owners who obtain SEn ioans and female business owners who do not.
4. Use the fincings to enlichten and train Eemale entrepreneurs regaring proEit paths leacing to a desire return on net worth.
```

Managerial Impİications
Manageriaily, the findings of this study has several implications. The type of business owned is generally a reflection of the type of education. For example, those women who had proEessional degrees generally owned proEessional service Eims. The level of education alone may not result in signEicantly diferent leveis oE Einancial performance. However, the professional service Eirms did have the nighest average proEit marcin.


#### Abstract

Obstacles faced by female business owners are reElected in the: Einancial performance. This is particularly true Eor those obstacles that relate to cash or working capiさal. Eor example diEEicuities in raising capital and establishing credit could result in iower average Einancial performance. Generally, most identified obstacies resulted in lower average financial per£ormance. In acidition, the obstacles seemed to be reiated. Eor example those women who stated that they dic seek acuice regarcing salesmansinip also encountered other marketing obstacles sucin as dealing with sustomers, adve=tising, and knowing the customers who would buy their product or serrice.

Other potential implications could be that certain characteristics, suci as birtin order, could have litile signiEicance Eor the Eemaie entrepreneur of zoday. Eurther research is needed to jetermine iz the  this study remain consistent with future studies.


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APPENDECES

TABLE $ن 2$

## ALL SIGNIFICANT CHARACTERISTICS ( P -VALUES)



## TABLE 53

## MANOVA TABLE: SIGNIFICANT VARIABLES P -Values

| Variabie |  | $\boldsymbol{\sim}$ | M44 | M45 | M46 | M47 | M48 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M3GRP | Àge | . 0027 | . 0007 | . 6667 | . 1028 | . 4387 | . 1644 |
| M20GRP | Type business | . 0648 | . 0609 | . 6528 | . 3095 | . 5659 | . 4782 |
| M52GRF | Acvice sought Eor salesmanship | . 0717 | . 1343 | . 4234 | . 4729 | . 0472 | . 0074 |
| ME2GRP | Business growth | . 0010 | . 4068 | . 3040 | . 0229 | . 8336 | . 0263 |
| M58GRP | Interesting work | .0001 | . 0001 | . 5805 | .173E | . 5111 | . 205 E |
| M72GRP | Business makes it disficult to do things at home | . 0393 | . 2844 | . 0306 | . 0346 | . 4081 | . 7282 |
| M108GR? | Iake of previous business experience | . 0728 | . 3676 | . 2118 | . 3322 | . 0175 | . 0197 |
| M109GR? | Difficulty in raising capital | . 0751 | . 1046 | .2511 | . 8689 | .445三 | . 0088 |
| M112GRP | Difficulty in obtaining expert ačvice | . 0939 | . 0280 | . 0830 | . 0908 | . 2024 | . 7587 |
| M115GR? | DiEsiculty in obtaining contracts | . 0510 | . 0946 | .0323 | . 1021 | . 9029 | . 5824 |
| M117GRP | Difficulty in establishing credit | . 0047 | . 0090 | . 0047 | . 3945 | . 6931 | . 2357 |
| M122GRP | Einancial matters | . 0236 | . 0670 | . 0618 | . 9113 | . 5943 | . 0601 |
| M124GRP | Deaiing with customers | . 0003 | . 7557 | . 0001 | . 0001 | . 4526 | . 4474 |
| M125GRP | Knowing peopie who will buy procuct | . 0204 | . 0156 | . 4519 | . 4652 | . 9443 | .1512 |
| M127GR? | Advertising | . 0811 | . 0118 | . 0805 | . 0434 | . 9930 | . 2285 |

TABLE 54
MANOVA TABLE: NON-SIGNIFICANT VARIABLES P -Values

| Variable |  | $\wedge$ | M44 | M45 | M46 | M47 | M48 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M2GRP | Race | . 9504 | . 8084 | . 4570 | . 8880 | . 6043 | . 7337 |
| M 4 | Eirth order | . 2222 | . 9031 | . 5224 | . 0804 | . 3321 | . 8343 |
| M5GRP | Marital status | . 2587 | . 6083 | . 6167 | . 6752 | . 1594 | . 0188 |
| M7GRP | Education | .6331 | . 2048 | . 8467 | . 6712 | . 7649 | . 6946 |
| : $: 21 \mathrm{GR}$ ? | Location | . 5245 | . 5831 | . 1185 | . 1421 | . 5755 | . 3279 |
| H32-36G | R? Legal form | . 5329 | . 4553 | . 2045 | . 2412 | . 8929 | . 5679 |
| MSIGR? | sdivice..laws-regs-taxes | . 8399 | . 1890 | . 2664 | . 3415 | . 7305 | . 4240 |
| M53GR? | Aduice..acctg. | . 0906 | . 5279 | . 1510 | . 9733 | . 9247 | . 1527 |
| M54GR? | icivice. mgt. | . 7536 | . 9343 | . 8107 | . 5213 | . 9223 | . 9584 |
| M55GR? | Adince..Einance | . 4912 | . 1421 | . 2720 | . 3205 | . 4085 | . 6428 |
| Mi56GR? | Advice..marketing | . 7585 | . 7671 | . 1070 | . 2492 | . 3313 | . 3085 |
| M6OGRP | Seing own boss | . 3774 | . 6713 | . 4170 | . 5155 | . 0554 | . 8154 |
| M6iGRP | -arge proEits | . 5537 | . 3582 | .1635 | . 0503 | . 9857 | . 4847 |
| M6JGR? | Recognition | . 1703 | . 4626 | . 2767 | . 9537 | . 2827 | . 0591 |
| ME4GR | Achievement | . 9739 | . 6394 | . 6745 | . 9227 | . 6375 | . 9445 |
| M65GR? | Independence | . 6914 | . 9532 | . 4693 | . 5877 | . 1767 | . 2259 |
| 46EGR? | Responsibility | . 5772 | . 5487 | . 4212 | . 5100 | . 0803 | . 4360 |
| M69GRP | Monetary rewards | . 4790 | . 2258 | . 8022 | . 0885 | . 8020 | . 4854 |
| :170GR? | Make Eriencis | . 4086 | . 1084 | . 4591 | . 6552 | . 8772 | . 7096 |
| M71GRP | Surroundings | . 7611 | . 9310 | . 3590 | . 7323 | . 4534 | . 7520 |
| M73GRP | job security | . 2517 | . 6394 | . 6279 | . 1627 | . 8090 | . 7433 |
| M74GR? | Eamily time | . 6030 | . 4398 | . 4198 | . 5666 | . 1.595 | . 3471 |
| M75GRP | Develop abilities | . 9616 | . 5270 | . 6467 | . 7340 | . 3490 | . 6930 |
| M76GR? | Chance to do best | . 6494 | . 5193 | . 6460 | . 9828 | . 2049 | . 8827 |
| M77GRP | Time to do job | . 8005 | . 7782 | . 9604 | . 3823 | . 4747 | . 6338 |
| M76GR? | Self-EulEillment | . 8979 | . 9390 | . 5762 | . 7689 | . 3378 | . 9591 |
| M79GR | Generaliy succeed | . 9928 | . 7260 | . 8135 | . 6577 | . 7114 | . 7959 |
| MEOGR? | Prefer experts | . 3010 | . 3150 | . 8940 | . 2052 | . 1032 | . 2802 |
| M81GRP | Set higin standard | . 3190 | . 5655 | . 0272 | . 0536 | . 6073 | . 4977 |
| M62GR? | Can do jod better | . 8159 | . 4884 | . 5626 | . 1661 | . 7563 | . 9354 |
| M63GR? | Seliz-consident | . 2300 | . 2433 | . 8161 | . 0766 | . 7003 | . 6974 |
| M64GR? | Enjoy plaming | . 7228 | . 1137 | . 7656 | . 3356 | . 6789 | . 5065 |
| M85GRP | Success...employee | . 8047 | . 6599 | . 6795 | . 7194 | . 7331 | . 9658 |
| M86GR? | Hac encouragement | . 2639 | . 9493 | . 0436 | . 8121 | . 3884 | . 7919 |
| M110GRP | Lack confidence | . 9445 | . 6192 | . 9506 | . 4107 | . 6725 | . 9634 |
| M111GRP | Childraising... | . 4191 | . 0910 | . 9910 | . 6017 | . 4175 | . 2985 |
| M113GR? | Lack encouragement | . 1170 | . 7363 | . 0231 | . 0374 | .6566 | . 4945 |
| MI14GR? | Discrimination | . 6836 | . 9552 | . 1630 | . 2811 | . 6773 | . 6759 |
| M116GR? | Suppliers... | . 8858 | . 6629 | . 9429 | . 6253 | . 4913 | . 7919 |
| :118GRP | Working capital... | . 1590 | . 9251 | . 2244 | . 8462 | . 6126 | . 1369 |
| M119GRP | Inventory. | . 5991 | . 7955 | . 6072 | . 5373 | . 9519 | . 8895 |
| M120GR? | Other | . 3777 | . 0171 | . 3228 | . 3803 | . 0484 | . 2157 |
| K121GR? | keeping records | . 1659 | . 0966 | . 4179 | . 7007 | . 5597 | . 0922 |
| M12EGR? | Manage empioyees | . 2533 | . 8731 | . 7362 | . 4846 | . 0591 | .4392 |
| M125GRP | Law, regs., taxes | . 4360 | . 0916 | . 3893 | . 8356 | . 5839 | . 1517 |

## TABLE 55

## REGRESSION - ALL VARIABLES P-Vaiues



TABLE 56
CORRELATION - ALL VARIABLES
$r$ and ( $P$-Values)

|  | Variable | M44 | M45 | M46 | M47 | M48 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M87 | Interesting-boring | $\begin{aligned} & -.17 \\ & (.0839) \end{aligned}$ | $\begin{gathered} .08 \\ (.4161) \end{gathered}$ | $\begin{aligned} & -.06 \\ & (.5672) \end{aligned}$ | $\begin{gathered} .06 \\ (.5718) \end{gathered}$ | $\begin{gathered} .08 \\ (.3007) \end{gathered}$ |
| M88 | Enjoyable-miserable | $\begin{aligned} & -.18 \\ & (.0575) \end{aligned}$ | $\begin{gathered} .00 \\ (.9751) \end{gathered}$ | $\begin{aligned} & -.10 \\ & (.3137) \end{aligned}$ | $\begin{gathered} .05 \\ (.5129) \end{gathered}$ | $\begin{gathered} .08 \\ (.4128) \end{gathered}$ |
| M89 | Easy-hard | $\begin{aligned} & -.08 \\ & (.4170) \end{aligned}$ | $\begin{aligned} & -.09 \\ & (.3454) \end{aligned}$ | $\begin{aligned} & -.17 \\ & (.0905) \end{aligned}$ | $\begin{gathered} .11 \\ (.2829) \end{gathered}$ | $\begin{gathered} .09 \\ (.3377) \end{gathered}$ |
| M90 | Worthwhile-useiess | $\begin{aligned} & -.07 \\ & (.4537) \end{aligned}$ | $\begin{gathered} .17 \\ (.0854) \end{gathered}$ | $\begin{gathered} .01 \\ (.9381) \end{gathered}$ | $\begin{aligned} & -.05 \\ & (.5282) \end{aligned}$ | $\begin{gathered} .10 \\ (.3152) \end{gathered}$ |
| M91 | Eriendiy-ionely | $\begin{gathered} -.09 \\ (.3725) \end{gathered}$ | $\begin{gathered} .09 \\ (.3730) \end{gathered}$ | $\begin{aligned} & -.03 \\ & (.752 i) \end{aligned}$ | $\begin{gathered} .00 \\ (.9637) \end{gathered}$ | $\begin{gathered} .08 \\ (.4134) \end{gathered}$ |
| M92 | Eull-empty | $\begin{aligned} & -.16 \\ & (.1059) \end{aligned}$ | $\begin{gathered} .07 \\ (.4 E 19) \end{gathered}$ | $\begin{gathered} -.04 \\ (.6791) \end{gathered}$ | $\begin{gathered} .03 \\ (.7539) \end{gathered}$ | $\begin{gathered} .03 \\ (.7455) \end{gathered}$ |
| MO3 | HopeEul-ciscouraging | $\begin{gathered} -.19 \\ (.0577) \end{gathered}$ | $\begin{gathered} .: 3 \\ (.1809) \end{gathered}$ | $\begin{gathered} -.05 \\ (.8347) \end{gathered}$ | $(.211$ | $\begin{gathered} .04 \\ (.5743) \end{gathered}$ |
| M94 | Eree-tied down | $\begin{aligned} & -.11 \\ & (.2611) \end{aligned}$ | $\begin{gathered} .00 \\ (.9857) \end{gathered}$ | $\begin{aligned} & -.01 \\ & (.9250) \end{aligned}$ | $(.0763)$ | $\begin{gathered} .03 \\ (.7716) \end{gathered}$ |
| M95 | Rewarding disappointing | $\begin{aligned} & -.20 \\ & (.0388) \end{aligned}$ | $\begin{gathered} .13 \\ (.: 722) \end{gathered}$ | $\begin{gathered} -.06 \\ (.5330) \end{gathered}$ | $\begin{gathered} .15 \\ (.1112) \end{gathered}$ | $\begin{gathered} .12 \\ (.2553) \end{gathered}$ |
| 196 | Brings..best in medoesn't give chance | $\begin{gathered} -.12 \\ (.2349) \end{gathered}$ | $\begin{gathered} .33 \\ (.0005) \end{gathered}$ | $\begin{gathered} .07 \\ (.4454) \end{gathered}$ | $\begin{gathered} .03 \\ (.7800) \end{gathered}$ | $\begin{gathered} .05 \\ (.5527) \end{gathered}$ |

Terrible-perfect situation

| M97 | Cizy/place you live | -. 15 | -. 09 | -. 16 | -. 06 | -. 06 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (.2315) | (.3774) | (.1072) | (.5608) | (.5701) |
| M96 | House or apartment | . 07 | -. 17 | -. 09 | -. 01 | . 04 |
|  |  | (.4E57) | (.0838) | (.3395) | (.9515) | (.7036) |
| M99 | Iife in Oklahoma | -. 06 | -. 07 | -. ${ }^{\text {U }}$ | -. 04 | -. 05 |
|  |  | (.5859) | (.4904) | (.5152) | (.6737) | (.5913) |
| M100 | Your education | . 08 | -. 13 | -. 01 | . 00 | -. 08 |
|  |  | (.4356) | (.1730) | (.9428) | (.9855) | (.4201) |
| M101 | Your business | . 19 | -. 15 | . 03 | -. 07 | -. 05 |
|  |  | (.0506) | (.1185) | (.7752) | (.4940) | (.6230) |
| M102 | realth/physical.. | . 02 | -. 13 | . 00 | . 04 | -. 05 |
|  |  | (.8245) | (.1884) | (.9617) | (.7098) | (.5574) |
| M103 | Standarc of living | . 12 | -. 10 | . 04 | -. 04 | -. 03 |
|  |  | (.2398) | (.3045) | (.6789) | (.7187) | (.7734) |
| M104 | Savings-investments | . 15 | -. 12 | -. 03 | -. 11 | . 00 |
|  |  | (.1215) | (.2343) | (.7675) | (.2455) | (.9540) |
| M105 | Your friendships | . 07 | -. 14 | -. 08 | -. 04 | . 00 |
|  |  | (.4931) | (.1527) | (.3976) | (.7099) | (.9717) |
| 1:106 | Eamily Life | . 02 | -. 19 | -. 12 | -. 07 | . 04 |
|  |  | (.8150) | (.0455) | (.2052) | (.4705) | (.6763) |
| M107 | Lise as a whoie | . 10 | -. 21 | . 00 | -. 05 | . 03 |
|  |  | (.2964) | (.0329) | (.9692) | (.5476) | (.7938) |

## TABLE 57

## LABOR ADJUSTMENT

 FOR SOLE PROPRIETORSHIPS AND PARTNERSHIPS| Occupation title | Median Eamings |  | Occupation Per Survey |
| :---: | :---: | :---: | :---: |
|  | Part-time | Full-time |  |
| Accounting and Auditors | \$11.018 | \$12.600 | CPA |
| Accounting and Clerks | 7.668 | 9.162 | Accounting, Bookkeeper. Tax |
| Lawyers and Judges | 11.278 | 15.925 | Lawyers, judges and J.D. |
| Architects | 7.333 | 11.000 | Redidential design |
|  | 7.333 | 11.000 | Interior design |
| Therapists | 9.381 | 11.214 | Speech Pathology |
| Health Assessment | 11.168 | 13.300 | Psychotherapy/counseling |
| Health Diagnosing | 10.654 | 11.000 | Anesthetist, Nutrition counseling Optometry, Vetrinary |
| Dentistry | 8.111 | 14.621 | Dentist |
| Counseling | 9.381 | 11,214 | Unidentified counseling |
| Sales Occupations | 7.181 | 8.670 | Real Estate |
| Examinerers, Adjusters | 8.859 | 5.777 | Abstract, prof. document examiner |
| Retail Trade | 5.227 | 6.200 | Bridal retail, womens apparel. wigs, grocery, carpet, cake supplies, party decor., flowers |
| Non-durable Manufacturing | 6.885 | 9,000 | Jeveiry design/sales |
| Miscellaneous Machine | 8,138 | 10.000 | Small engine sales |
| Other Administrative Support | 13.741 | 15.000 | Neuspaper/print |
| Service Occupation | 5.186 | 6,000 | Doll restoration, ballet school |
| food Service | 3,351 | 6.298 |  |
| Building Maintenance | 4.243 | 6,803 | Janitorial/earpet cleaning |
| Sales-Business Services | 8,019 | 10,448 | Advertising-art |
| Printing Machine | 6,713 | 7,000 | Typesetting |

[^16]TABLE 58

## SUMMARY OF SURVEY RESULTS

Female Business Owners in Ok!ahoma


VAR Freq Percent

| M5Group |  | Marital Groups |  |
| ---: | ---: | ---: | :---: |
| 72 | 64.87 | 1. Married |  |
| 39 | 35.13 | 2. Not married |  |

M6 Household decision-making

| 21 | 19.27 | 1. Eemale has most influence |
| ---: | ---: | :--- |
| 9 | 8.25 | 2. Nale/female have equal inEiuence |
| 49 | 44.95 | 3. Nial |
| 8 | 7.34 | 4. |
| 10 | 9.17 | 5. Iale has most influence |
| 12 | 11.01 | 6. Never married |

M7 Education

| 1 | .91 |
| ---: | ---: |
| 15 | 13.04 |
| 3 | 2.72 |
| 25 | 22.73 |
| 5 | 4.54 |
| 27 | 24.55 |
| 34 | 30.91 |

2. 5 th grade
3. 12th grade
4. Technical school
5. Some college
6. àssociate degree
$27-24.55$
7. Completed college
$34 \quad 30.91$
8. Graduate work/degree

M7Group

## Education Groups

$19 \quad 17.27$

1. None-secondary-technical school
30.27 .27
2. Some coilege-asscciate degree

61 ミミ.46
3. Completed college-graduate work/degree

M8 Major field

| 1 | 2.57 | 1. | Humanities |
| :---: | :---: | :---: | :---: |
| 7 | $\div: .67$ | 2. | Social Sciences |
| 4 | 5.67 | 4. | Ecucasion |
| 14 | 23.32 | 6. | Susiness, Law EnEorcement, Pubiic ĖEairs |
| 1 | 2.67 | 7. | Eine Arts |
| 6 | 10.00 | 8. | :Home Economics |
| 2 | E. 33 | 9. | Journalism, Communications |
| 7 | 11.67 | 11. | Med Tecinology, Pharmacy, Other Health |
| 18 | 30.00 | 15. | Professional, Law, MD, Vet |

M9 Satisfaction with education.

| 40 | 36.04 | 1. Completely satisfied |  |
| ---: | ---: | :--- | :--- |
| 17 | 15.31 | 2. |  |
| 8 | 7.21 | 3. |  |
| 14 | 12.61 | 4. Neutral |  |
| 11 | 9.91 | 5. |  |
| 9 | 8.11 | 6. |  |
| 12 | 10.81 | 7. | Completely dissatisEied |

## VAR Freq Percent

M10 Number of children.

| 19 | 17.12 | 0. None |  |
| ---: | ---: | :--- | :--- |
| 25 | 22.52 | 1. One child |  |
| 38 | 34.23 | 2. | Two chiidren |
| 17 | 15.32 | 3. Three children |  |
| 8 | 7.21 | 4. Four children |  |
| 3 | 2.70 | 5. Eive children |  |
| 1 | .90 | 6. Six children |  |

M11 Father's education. M12 Mother's education.

| 9 | 8.57 | 5 | 4.59 | 1. | No formal educaこion |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | 15.24 | 21 | 19.27 | 2. | 8tin crade |
| 27 | 25.71 | 31 | 26.44 | 3. | 22th grade |
| 3 | 2.86 | 5 | 4.59 | 4. | Iechnical school |
| 10 | 9.52 | 18 | 16.51 | 5. | Some college |
| 1 | . 95 | 6 | 5.50 | 6. | Bssociate decree |
| 19 | 16.10 | 27 | 25.50 | 7. | Completec college |
| 20 | 19.05 | 5 | 5.50 | 6. | Gracuate work/degree |

M13 Father's major. M14 Mother's major.

| 3 | 10.34 |
| ---: | ---: |
| 1 | 3.45 |
| 1 | 3.45 |
| 3 | 10.34 |
| 4 | 13.79 |
| 6 | 20.69 |
|  |  |
| 1 | 3.45 |
| 2 | 6.90 |
| 6 | 27.59 |

Ni15 Male Occupation.

| 7 | 8.54 |
| ---: | ---: |
| 3 | 3.66 |
| 10 | 12.20 |
| 1 | 1.22 |
| 6 | 7.32 |
| 6 | 7.32 |
| 1 | 1.22 |
| 2 | 2.44 |
| 3 | 3.50 |

Mi6 Female Occupation.

| 11 | 14.10 | 1. | Teacher |
| :---: | :---: | :---: | :---: |
| 4 | 5.13 | 2. | Accountant/bookkpr |
| 2 | 2.56 | 3. | Farmer/rancher |
| 1 | 1.28 | 4. | Fireman |
| 4 | 5.13 | 5. | Susiness owner |
| 3 | 3.85 | 5. | Sales/advertising |
| 6 | 7.69 | 7. | Clerical/secretary |
| 1 | 1.25 | 8. | MEs/Eactory |
| 1 | 1.28 | 9. | Railroad |
| 33 | 42.32 | 10. | :ousewife |
| 2 | 2.57 | 11. | Artists-craftsmen |
|  |  | 12. | Iradesman |
|  |  | 13. | Sanker, finance, bus |
|  |  | 14. | Govt service/militar |
| 1 | 1.28 | 15. | Eood services |
|  |  | 16. | Construction-equip. |
| 2 | 2.56 | 17 | Real Estate/insu |


| VAR | Freq | Percent | 2 | 2.56 | $\begin{aligned} & 12 . \\ & 19 . \\ & 20 . \end{aligned}$ | Minister <br> Iawyer/juaige <br> Labore: |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | -. 22 |  |  |  |  |
|  | $\geq$ | 1.22 |  |  |  |  |
|  | 4 | 4.88 |  |  |  |  |
|  |  |  | 3 | 3.85 | 21. | Nuese-Dietician |
|  | 4 | 4.88 | 1 | 1.28 | 22. | MD |
|  | 2 | 2.43 |  |  | 23. | Optician/audio |
|  | 2 | 2.43 | 1 | 2.28 | 25. | Oil business |
|  | 5 | 6.10 |  |  | 25. | Engineer |
|  | 2 | 2.43 |  |  | 30. | Geclesist |
|  | 1 | 1.22 |  |  | 34. | College Proミessor |
|  | 1 | 1.22 |  |  | 35. | Architect |
|  | 1 | 1.22 |  |  | 36. | Mg:/business adm. |

M17 A member of my family was independent farmer or business owner.

| 77 | 71.30 | 1. $\because$ Yes |
| :--- | :--- | :--- |

M18 A member of my family/close relative was independent professional.
4340.95 2. Yes
6259.05 2. No

M19 Before going into business, 1 admired someone who started business.
$55 \quad 52.40$ 1. Yes
$5248.60 \quad 2$. No
M20 Type of Business.

| 2 | 1.80 | 102 | Sallet/art school |
| :---: | :---: | :---: | :---: |
| 1 | . 98 | 104 | Arts/crafts store |
| 14 | こ2.61 | 201 | ProEessional - health/medical |
| 18 | 16.22 | 202 | ProEessional - business, CPA. Law |
| 7 | 6. 31 | 203 | Real estate, Ensurance, abstracts |
| 15 | 13.51 | 204 | Eccounting, Eax, marketing, communications |
| 2 | 1.80 | 205 | Personnel |
| 10 | 9.01 | 206 | Interior/residential ciesigr., landscape |
| 1 | . 90 | 207 | Court reporter, doc/handwriting examiner |
| 1 | . 90 | 208 | Monogramming |
| 2 | 3.80 | 309 | Travel agency |
| 1 | . 90 | 210 | Optometry |
| 1 | . 90 | 217 | Cleaning, janitoral |
| 6 | 5.41 | 301 | Clothing store |
| 7 | 6.31 | 302 | GiEts, Elower store |
| 2 | 1.80 | 303 | Furniture, carpet, household accessories |
| 2 | 1.80 | 304 | Party decor |
| 3 | 2.70 | 306 | Restaurant, cafe |
| 2 | 1.80 | 307 | Cosmetics, wigs, nails |
| 1 | . 90 | 310 | jewelry |
| 1 | . 90 | 311 | antiques, used merchandise |
| 1 | . 90 | 312 | Direct saies |
| 4 | 3.61 | 502 | Printing, newspaper publishing |
| 7 | 6.31 | 599 | Mixture of several businesses |

VAR Freq Percent

| M2OGroup |  |  | Business Groups <br> 10 |
| ---: | :--- | :--- | :--- |
| 56 | 14.41 | 1. | Personal se:rices |
| 50.45 | 2. | Professional services |  |
| 25 | 22.52 | 3. | Retail |
| 14 | 12.52 | 4. | Arts and crafts |

M21 Business Location

| 12 | 10.81 | 1. Shopping mall |
| :--- | :--- | :--- | :--- |
| 26 | 25.42 | 2. Central business dist:ict |
| 40 | 35.04 | 3. Susiness complex |
| 16 | 14.41 | 4. Other location outsicie home |
| 17 | 15.32 | 5. Home |

M21Group Location Groups
94 34.66 1. Outside the nome
17 55.32 5. In the nome
M22 Percent of business owned.

| 1 | .90 | 10 percent |
| ---: | ---: | ---: |
| 1 | .90 | 17 percent |
| 1 | .90 | 22 percent |
| 1 | .90 | 25 percent |
| 1 | .90 | 30 percent |
| 3 | 2.71 | 35 percent |
| 1 | .90 | 45 percent |
| 9 | 6.11 | 50 percent |
| 3 | 2.70 | 51 percent |
| 1 | .90 | 75 percent |
| 1 | .90 | 95 percent |
| 66 | 79.26 | 100 percent |


$89 \quad 80.18 \quad>94 \%$
M23 Percent owned by other femaies.

| 97 | 87.39 | 0 percent |
| ---: | ---: | ---: |
| 1 | .90 | 4 percent |
| 1 | .90 | 5 percent |
| 3 | 2.71 | 10 percent |
| 1 | .90 | 24 percent |
| 4 | 3.60 | 50 percent |
| 4 | 3.60 | 67 percent |

## VAR Freq Percent

M24 Year began business.

| 1 | .91 | 1930 s |
| ---: | ---: | ---: |
| 2 | 1.52 | 1940 s |
| 4 | 3.64 | 1950 s |
| 13 | 11.81 | 1900 s |
| 57 | 51.82 | 1970 s |
| 33 | 30.00 | 1980 s |

M24Group

| 20 | 18.18 | $1930 s-1950 s$ |
| :--- | :--- | :--- |
| 57 | 51.82 | $1970 s$ |
| 33. | 30.00 | $1950 s$ |

M25 Number of full-time employees.
3430.63 None

| 17 | 15.31 | 1 | employee |
| ---: | ---: | ---: | :--- |
| 13 | 11.71 | 2 | employees |
| 12 | 10.61 | 3 | emplovees |
| 6 | 5.41 | 4 | emplovees |
| 7 | 6.31 | 5 | employees |
| 5 | 4.51 | 5 | employees |
| 5 | 4.51 | 7 | emplovees |
| 1 | .90 | 6 | emplovees |
| 1 | .90 | 9 | empiovees |
| 2 | 1.80 | 10 | emplovees |
| 2 | 1.80 | 12 | employees |
| 2 | 1.30 | 15 | emplovees |
| 1 | .90 | 20 | employees |
| 1 | .90 | 30 | emplovees |
| 1 | .90 | 40 | empiovees |
| 1 | .90 | 46 | employees |

M25Group Employee Groups
3430.63 1. None
5549.55 2. i-5 employees
1412.61 3. 6-10 employees
$8 \quad 7.21$ 4. 12-46 employees
M26 Number of part-time employees.

| 40 | 36.69 | 0 | employees |
| ---: | ---: | ---: | :--- |
| 28 | 25.69 | 1 | employee |
| 21 | 19.26 | 2 | employees |
| 5 | 4.58 | 3 | employees |
| 3 | 2.75 | 4 | employees |
| 1 | .92 | 5 | employees |
| 1 | .92 | 6 | employees |
| 4 | 3.67 | 7 | employees |
| 1 | .92 | 8 | employees |
| 1 | .92 | 10 | empioyees |

VAR Freq Percent

| 1 | .92 | 20 | employees |
| ---: | ---: | ---: | ---: |
| 1 | .92 | 33 | empioyees |
| 1 | .92 | 115 | employees |
| 1 | .92 | 150 | employees |

M27-28 My business was previously owned by one in my family/relative. 4 Eirst business
4 Current business
M29-M30 My business is/was located in the home.
19 First business
io Current business
M31-M32 My business is/was a sole proprietorship.
38 First business
52 Current Dusiness

M33-M34 My business is/was a partnership.
11 Eirst business
7 Current business

M35-M36 My business is/was a corporation.
12 First business
36 Current business
M32-M36Group Current business.
$38 \quad 39.13$ 1. Corporation
59 60.62 2. Non-corporation
N:37 Financial information provided.
111
M38 Year of financial information.
11.151978
$1 \quad 1.15 \quad 1981$
$77 \quad 68.51 \quad 1982$
$8 \quad 9.19 \quad 1983$
M39 Sales in dollars.
\$1,000-53,000,000

## VAR Freq Percent

| R:EsGroup | Sales Groups |  |  |
| ---: | ---: | ---: | :--- |
| 4 | 3.60 | 1. $51,000-9,000$ |  |
| 30 | 27.03 | 2. | $510,000-40,000$ |
| 27 | 24.32 | 3. | $550,000-99,000$ |
| 15 | 13.52 | 4. | $5100,000-149,000$ |
| 6 | 5.40 | 5. | $5150,000-199,000$ |
| 10 | 9.01 | 6. | $5200,000-253,000$ |
| 6 | 5.40 | 7. | $5300,000-390,000$ |
| 3 | 2.70 | 6. | $5400,000-490,000$ |
| 3 | 2.70 | 9. | $5500,000-999,000$ |
| 7 | 6.32 | 10. | $51,000,000-3,000,000$ |

M40 Net profit in dollars $5(40.000)$ :0 440.000

| M40Group |  |  | Profit grou |  |
| :---: | :---: | :---: | :---: | :---: |
| 17 | 25.32 | 1. | Loss/zero | proEit |
| 23 | 20.72 | 2. | 5 1,000- | 9,000 |
| 21 | 18.92 | 3. | \$ 10,000- | 19.000 |
| 15 | 13.51 | 4. | S 20.000- | 29.000 |
| 12 | 9.91 | 5. | S 30,000- | 39,000 |
| 4 | 3.60 | 6. | \$ $40.000-$ | 49,000 |
| 6 | 5.41 | 7. | \$ 50,000- | 59.000 |
| 6 | 5.41 | 8. | S $60.000-$ | 69.000 |
| 3 | 2.70 | 9. | \$ 70,000- | 79.000 |
| 5 | 4.50 | 10. | \$100,000-4 | 40.000 |

M41 Total Assets
S2,000 $=0$ S:,400,000

| M41Group |  | Asset groups |  |  |
| ---: | ---: | :--- | :--- | :---: |
| 23 | 20.72 | 1. | $51,000-9,000$ |  |
| 42 | 37.04 | 2. | $510,000-49,000$ |  |
| 29 | 17.12 | 3. | $550,000-99,000$ |  |
| 15 | 13.51 | 4. | $5100,000-199,000$ |  |
| 7 | 5.31 | 5. | $5200,000-299,000$ |  |
| 3 | 2.70 | 6. $5300,000-399,000$ |  |  |
| 1 | .90 | 7. $5400,000-499,000$ |  |  |
| 1 | .90 | 8. | $\$ 1,400,000$ |  |

M42 Total liabilities.
sNone to 5850,000

## VAR Freq Percent

| MA2Group |  | Liability groups |  |  |
| ---: | ---: | :--- | :--- | :---: |
| 62 | 53.86 | 1．SNOne $-9,000$ |  |  |
| 27 | 24.32 | 3． | $510,000-49,000$ |  |
| 11 | 0.91 | 4. | $550,000-99,000$ |  |
| 8 | 7.21 | 5. | $5100,000-199,000$ |  |
| 1 | .90 | 6 | 5210,000 |  |
| 2 | 1.80 | 7． | $5500,000-850,000$ |  |

## M43 Net worth．

$s(40,000)=0 \$ 800,0009$

| M43Group |  |  | Net worth groups |
| :---: | :---: | :---: | :---: |
| 13 | 12．71 | 1. | Negaこive／None |
| 28 | 25.23 | 2. | s 1，000－9，000 |
| 37 | ミミ．34 | 3. | S 10，000－45，000 |
| 13 | 11.71 | 4. | S 50，000－99，000 |
| 14 | 22.61 | 5. | 5100，000－199，000 |
| 3 | 2.70 | 6. | \＄200，000－250，000 |
| 3 | 2.7 .0 | 7. | 5362，000－800，000 |

M44 Profit margin．
$-394.7 \%$＝0 $63.33 \%$

| M44Group |  |  | Profit margin groups |
| :---: | :---: | :---: | :---: |
| 17 | 15.32 | 1. | Loss／zero |
| 24 | 21． 61 | 2. | 1－10 percent |
| 23 | 20.72 | 3. | 11－20 percent |
| 25 | 22.53 | 4. | 21－40 percent |
| 22 | 19.62 | 5 | ＞ 40 percent |

M45 Asset turnover．
0.3 times to 40 times

M45Group Asset turnover groups
37 33．33 1．＜ 2 times
$38 \quad 34.24 \quad 2.2-4$ times
3632.43 3．$>4$ times

M46 Rate of return on assets．
$-400 \%$ to $1416.65 \%$
M46Group $\quad$ RR on asset groups
1715.32 I．Loss／zero percent
1513.51 2．i－＜ 20 percent
2016.02 3．20－＜ 40 percent
5953.15 4． 40 percent and above

M47 Leverage ratio．
－13．7 times to 10 times

## VAR Freq Percent

M47Group Leverage ratio groups
13 11.71 1. < 1 time $68 \quad 79.26$ 2. 1-2 times 10 2.01 3. > 2 Eines

M48 Rate of return on net worth. $-1300 \%$ to $1250 \%$

M48Group $\quad$ RR on net worth groups

| 29 | 25.12 | 1. Loss/zero |  |
| ---: | ---: | ---: | :--- |
| 10 | 9.01 | 2. | $1-14$ percent |
| 9 | 6.11 | 3. | $15-29$ percen |

M49 Hours worked per week.
5-80 hours

M49Group Hour groups
22 29.02 1. 5-30 hours
3127.93 2. $35-40$ hours

14 12.61 3. 42-45 hours
25 2う.42 4. 47-50 hours
16 16.22 5. 55-80 hours
M50 Rent or own building.

| 35 | 31.02 | 1. | ent |
| ---: | ---: | ---: | :--- |
| 73 | 65.36 | 2. own |  |
| 2 | 1.62 | 3. bcth |  |

M51. Methods of seeking advice for business law, govt. regs., taxes.
$10 \quad 10.42 \quad 1$. ConEerence, wo: 10 shop, seminar

37 3E.54 2. Professionals
: 1.04 3. Government management assistance
$24 \quad 25.00$. 4. None
24 25.00 5. Combination of methods
M52 Methods of seeking advice for salesmanship.
19 22.35 1. ConEerence, worksiop, seminar
7 8.24 2. Professionals
$47 \quad 55.29$ 4. None
12 14.12 5. Comioination of methods
M53 Methods of seeking advice for accounting.
$8 \quad 8.89$ 1. Conference, workshop, seminar
39 43.33 2. Professionals
28 31.11 4. None
15 16.57 5. Combination of metinods

## VAR Freq Percent

M54 Methods of seeking advice for management.

| 20 | 24.10 | 1. Confersnce, workshop, seminar |
| ---: | ---: | :--- | :--- |
| 4 | 4.82 | 2. ProEessionais |
| 1 | 1.20 | 3. Goverment management assistance |
| 45 | 51.81 | 4. None |
| 15 | 18.07 | 5. Comination of methods |

M55 Methods of seeking advice for finance.
78.14 1. Conference, workshop, seminar
27 21.40 2. Professionals

1 1.15 3. Government management assistance
4045.51 4. None

11 i2.79 5. Combination oE methoes
M56 Methods of seeking advice for marketing.

| 19 | 21.04 | 1. ConEerence, workshop, seminar |  |
| ---: | ---: | :--- | :--- |
| 3 | 3.45 | 2. | ProEessionals |
| 1 | $\vdots .15$ | 3. Government management assistance |  |
| 51 | 58.62 | 4. | None |
| 13 | 14.94 | 5. Combination of methous |  |

M57 Methods of seeking advice for miscellaneous.

| 1 | 9.09 | 1. Conference, worksiop, seminar |
| ---: | ---: | :--- | :--- |
| 3 | 27.27 | 2. Erofessionals |
| 6 | 54.55 | 4. None |
| 1 | 5.09 | 5. Combination of methods |

M58 Prior years of managerial experience. no vears $\mathbf{~} 0$ io vears

M58Group
Groups
$47 \quad 43.12$ 1. None
35 32.11 2. 1-4 years

15 13.75 3. 5-9 years
1211.01 4. 10-18 years

M59 Years of managerial experience during business ownership. None to 50 years

M59Group
$08 \quad 7.41$
$34 \quad 31.48$
$29 \quad 26.85$
$26 \quad 24.07$
$11 \quad 10.19$

Groups

1. 0-1 years
2. 2-4 years
3. 5-9 years
4. 10-19 years
5. 20 or more years
```
M60-M67 As a business owner, how important are each of the following
    to you personally?
        Rating: l=not very impor=ant, 2=slightly important,
        3=moderatミly important, 4=extemely important
```

|  | （1） | （2） | （3） | （4） |
| :---: | :---: | :---: | :---: | :---: |
|  | \＃／\％ | \＃／\％ | \＃／\％ | \＃／\％ |
| M60 Seing my own boss | 8／07．2 | 6／05．4 | 24／21．6 | 73／65．8 |
| M61 Large prozits | E／02．7 | 29／17．1 | 60／54．1 | 29／26．1 |
| M62 Growti oE Susiness | 5／04．5 | 16／14．5 | 45，40．9 | 44／40．1 |
| M63 Recounition of family－friends | 17／15．4 | 36／32．4 | 20／26．1 | 29／26．1 |
| Mé Eeeling－personal achievement． | 1／00．9 | 3／02．7 | 22／19．8 | 85／？5．6 |
| M55 Eeeling oE independence | 4／03．6 | 2／01．6 | 24／21．6 | 81／73．0 |
| Mó Eeeiing cE responsibility | $4 / 03.6$ | 22／10．9 | 40／30．4 | 54／ 50.1 |
| M57 0こうer | － | －－－ | 1／06．7 | 14／93．3 |

M68－M78 How true is each statement about your business？

        Rating: l=very irue, I=somewhat true,
    
    j=not very true, \(4=n o t=r u e ~ a t ~ a l l ~\)
    |  | （1） | （2） | （3） | （4） |
| :---: | :---: | :---: | :---: | :---: |
|  | \＃／\％ | \＃／\％ | \＃／\％ | \＃／\％ |
| M68 Work is wery interesting | 65／79．5 | 20／16．7 | 1／00．9 | 1／00．9 |
| Mo9 Monetary rewards are good | 47／43．9 | 42／39．3 | 14／13．1 | $4 / 03.7$ |
| M70 Gives chances to make friencs | 51／47．7 | 37／34．6 | 15／14．0 | $4 / 03.7$ |
| M7：Pleasant physical surrouundings | 52／50．0 | $36 / E 3.6$ | 7／05．5 | 2／01 |
| M72 DiEEicult to do tinings at home | 32／29．0 | 45／41．7 | 19i17．6 | 12／12 |
| M73 Job security is good | 50／46．1 | 34／32．6 | 14／23．5 | 6／05．0 |
| M74 Can spend time with family | 23／21．3 | 47／43．5 | 29／26．9 | 9／08．3 |
| M75 Opportunity．．．deveiop abilities | 66／62．3 | 31／29．2 | 9／0E．5 |  |
| M76 Given chance $=0$ things．．${ }^{\text {co }}$ best | 65／60．2 | 36／33．3 | 7／05．5 |  |
| M77 Have time to get job cone | 25／24．3 | 54／50．5 | 10／16．8 | 9／00． |
| ：76 Eeėing OE sė̇ーミul̇illment．．． | 75／70．4 | 27／25．0 | 5／04．6 | －－－ |

M79－M86 How do you personally agree or disagree with these statements． Ratings：l＝strongly agree，2＝agree， $3=$ no opinion 4＝disagree，5＝strongiy disagree

|  | （1） | （2） | （3） | （4） | （5） |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | \＃／\％ | \＃／\％ | \＃／\％ | \＃／\％ | \＃／\％ |
| M79 I generally succeed． | 52／48．1 | 52／48．1 | 1／00．9 | 3／02．9 | －－－ |
| M80 PreEer working w／experts | 31／28．7 | 45／41．7 | 19／17．6 | 13／12．0 |  |
| M61 Parents set hig̣i achieve ment standards for me | 26／24．3 | 48／44．9 | 6／05．6 | 20／16．7 | 7／06．5 |
| M62 Eeel I can do job better | 28／26．2 | 51／47．7 | 11／10．2 | 16／15．0 | 1／00．9 |
| M83 SelE－confident when in position to control．．． | 34／31．5 | 57／52．8 | 7／00．5 | 10／03． 2 |  |
| M84 Enjoy planning tasks． | 10／16．7 | 54／50．0 | 8／07．4 | 20／25．9 | －－－ |
| M85 im successEul when employed by others．．． | 42／39．3 | 45／42．1 | 14／13．1 | 5／04．6 | 1／00．9 |
| M8́ ：iad encouragement Erom otners to start business | 34／31．4 | 23／21．3 | 14／1ミ．0 | $34 / 81.5$ | 3／02．6 |

M87－M96 How do you feel about your present life？

## Frequencies

$\begin{array}{lllll}\text {（1）} & \text {（2）} & \text {（3）} & \text {（4）} & \text {（5）}\end{array}$（6）

|  |  | （1） | （2） | （3） | （4） | （5） | （6） |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M87 | Interesting | 53 | 30 | 9 | 10 | 4 |  |
| ：188 | Enjoyaile | 44 | 30 | 18 | 11 | 4 | 1 |
| ：89 | Ease | 10 | 11 | 13 | 24 | 23 | 12 |
| M90 | worthwhile | 56 | 23 | 16 | 7 | 2 | 2 |
| M91 | Friendly | 49 | 27 | 14 | 9 | 5 |  |
| 492 | Full | 50 | 19 | 12 | 18 | 4 | － |
| M53 | ： H （peful | 42 | 31 | 17 | 9 | 2 | 2 |
| M94 | Eree | 32 | 12 | 19 | 12 | 14 | 8 |
| M95 | Rewarding | 51 | 29 | 13 | 10 | 3 |  |
| M96 | Brings out |  |  |  |  |  |  |
|  | bes：in me | 47 | 31 | 13 | 11 | 3 |  |

（7）
2 Soring
－Miseraie
12 Hard
Useless
Lonely
Emp＝y
Discouracing
Iied Down
Disappointing
1 Doesr．t give me a chance

M97－M107 How satisfied are you with life and experiences？ 1＝さervisle situaたion，7＝perfect siさuation

Frequencies
（1）（2）（3）（4）（5）（6）（7）

| M97 | City or place you live | 3 | － | \％ | 7 | 22 | 0 | 25 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M98 | House or apartment | 1 | 1 | 2 | 13 | 23 | 39 | 27 |
| M99 | Your life in Oflahoma | 1 | 2 | 4 | 19 | 21 | 30 | 29 |
| 00 | Your education | 2 | 4 | 4 | 17 | 15 | 43 | 19 |
| 1101 | Your business | － | 1 | 3 | 11 | 22 | 45 | 22 |
| M102 | Your heal－h／physical | 2 | 4 | 8 | 11 | 29 | 31 | 21 |
| M103 | Standard of living | － | 3 | 2 | 12 | 24 | 39 | 25 |
| M104 | Savincs and investments | 6 | 9 | 12 | 23 | 19 | 27 | 10 |
| ：105 | Your Eriendships | － | 4 | 7 | 20 | 14 | 33 | 28 |
| m106 | Your family life | － | 3 | 6 | 20 | 20 | 35 | 23 |
| ：107 | Your iife as a whole | 1 | 1 | － | 11 | 23 | 48 | $: 8$ |

M108－127 Obstacles in starting or operating your business． Rating：l＝major obstacle， $2=$ moderate obstacle 3＝slight obstacle， $4=$ not a problem

|  |  | （1） | （2） | （3） | （4） |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \＃／\％ | \＃／\％ | \＃／\％ | \＃／\％ |
| M108 | Lack．．．business experience | 5／04．6 | 28／26．2 | 31／29．0 | 43／40．2 |
| M109 | DiEEicuizy．．raising capital | 16／15．0 | 12／11．2 | 28／25．2 | 51／47．6 |
| ：1110 | Lack eE seiE－conEidence | 3／02．8 | ここ，1ヒ．8 | 28／25．2 | 50／54．2 |
| ：111 | Chiidazising responsibilities | 9／08．4 | 22／20．5 | 31／29．0 | 45／42．1 |
| 9112 | DiEEiculty．．obtaining．．acrice | 5／04．8 | 16／15．2 | 25／23． 6 | 59／50．2 |
| M113 | Lack．encouragement．．family | 3／02． 6 | 10／09．3 | 18／16．8 | 76／71．1 |
| M114 | Discriminavion | 7／06．6 | 19／17．9 | 25／24．6 | 54／50．9 |
| 3115 | DiEEiavity．．obさaining contraets | 5／04．8 | 15／14．3 | 25／23．8 | 50／57．1 |
| 91116 | Di̇Eiculty．obtaining suppliers | 2／01． 9 | 5／04．0 | 16／15．4 | 51／77．9 |
| M117 | DiEミictity．．establishing credit | $7 / 06.7$ | 10／09．6 | 25／24．1 | 62，59．6 |
| M116 | ̇ack．．adequate working capizal | 8／07．5 | 17／10．1 | 29／27．4 | 52／49．0 |
| M119 | Lack．．adequate inventory | 2／02．0 | 7／07．1 | 10／16．2 | 72／72．7 |
| ：120 | Other | 1／14．3 | 2；28．5 | －－－ | 7／57．1 |
| M121 | ：̈eeping business records | $5 / 05.7$ | 24／22．6 | 30／28．3 | 45／43．4 |
| M122 | Einancial matzers | $6 / 05.7$ | 17／16．0 | 37／34．9 | 46／43．4 |
| M123 | Kanacing empioyees | 6／05． 8 | 18／17．1 | 27／25．7 | 54／51．4 |
| M124 | Dealing with customers | －－－ | 7／06．7 | 20／19．0 | 78／74．3 |
| M125 | knowing．．people．．who will buy product | 1／01．0 | 15／14．4 | 25／24．0 | 53／00．6 |
| M：25 | Susiness law，gort．regs．，taxes | $4 / 03.8$ | 23／21．9 | 33／31．4 | 45／42．9 |
| ：1127 | Edvertising | $4 / 03.8$ | 17／16．3 | 21／20．2 | 52：59．6 |

## TABLE 59

## CROSSTAB - BIRTH ORDER

|  | $\begin{gathered} n=11 \\ \text { Only Child } \end{gathered}$ | $\begin{gathered} n=37 \\ \text { Oldest Child } \end{gathered}$ | $\begin{gathered} n=27 \\ \text { younpest } \end{gathered}$ | $\begin{aligned} & n=36 \\ & M ; d d l e \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| WORK IS INTERESTING (M68) | 100\% (11) True | 100\% (34) True | 96\% (25) True | 97: (35) True |
| BUSINESS <br> IMTEREERES <br> MIT: HOME <br> (M72) | 737. (8) True <br> 27: (3) Not Very True | 697. (24) True <br> 315 (11) Not Very True | $\begin{gathered} \therefore 85 \% \text { (22) True } \\ 15 \% \text { (4) Not Very } \\ \text { True } \end{gathered}$ | $\left\lvert\, \begin{aligned} & 64 \% \text { (73) Irue } \\ & 36 \% \text { (13) Not very } \\ & \text { Irue } \end{aligned}\right.$ |
| LAC: OF BUSINESS EMPERIENCE (M108) | $\begin{array}{ll} 60 \% \text { (6) Slight } \\ \text { Obstacle } \\ \text { 40\% (4) Obstacle } \end{array}$ | 75\% (27) Slight <br> Obstacle <br> 25: (9) Obstacle | 78\% (21) Slight Obsiacle <br> 22\% (6) Obsiacie | $\begin{array}{cc} 59 \% \text { (20) Slight } \\ \text { Obstacie } \\ 41 \%(14) \text { Obstacie } \end{array}$ |
| RAISING <br> CAPITA: <br> (M109) | 70: (i) Slight Ob. <br> 30\% (3) Obstac!e | 72\% (26) Silght ob <br> 28\% (10) Obstacle | $\begin{aligned} & 85 \% \text { (23) Slight Ob. } \\ & 15 \% \text { (4) Obstacie } \end{aligned}$ | 68:: (23) Slight Ob. <br> 32\% (11) Obstac!e |
| OBTAINING <br> ADVICE <br> (M112) | $\begin{gathered} \text { 707 (9) Slight } \\ \text { Obs:acle } \end{gathered}$ | $\begin{aligned} & \text { 85\% (29) Slight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} & \text { 78\% (21) Siight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} 73 \%(25) & \text { Slight } \\ & \text { Obstacle } \end{aligned}$ |
| Obtaining CONTRACTS (M115) | $\text { i8\% (i) Slight } \begin{aligned} \text { Sbstacle } \end{aligned}$ | $\begin{aligned} 83 \% \text { (30) } & \text { Slight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} & 88 \% \text { (23) Slight } \\ & \text { Obstacle } \end{aligned}$ | $\text { 73\% (25) } \begin{aligned} & \text { Slight } \\ & \text { Obstacle } \end{aligned}$ |
| ESTABLISHING <br> CREDIT <br> (M117) | 78\% (7) Slight Obstacle <br> 22: (2) Obstacie | $\begin{aligned} & \text { 83\% (29) Slight } \\ & \text { Obstacle } \\ & \text { 17\% (6) Obstacle } \end{aligned}$ | $\begin{aligned} & \text { 85\% (22) Slisht } \\ & \text { Obstacle } \\ & 15 \% \text { (4) Obstacle } \end{aligned}$ | 85\% (29) Slight Obstacle <br> 15\% (5) Obstacle |
| $\begin{aligned} & \text { FINANCIAL } \\ & \text { MATTERS } \\ & (M 122) \end{aligned}$ | $\begin{gathered} 897 \text { (8) Siight } \\ \text { Obstacle } \end{gathered}$ | $\begin{aligned} & \text { 75:. (27) Siight } \\ & \text { Obstacie } \end{aligned}$ | $\begin{aligned} & \text { 81: (22) Sligit } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} \text { 767.)(26) } & \text { Slight } \\ & \text { Obstacle } \end{aligned}$ |
| DEALING WITR CUSTOMERS (M124) | 88\% (8) Slight Cbstacle | $1007(35) \begin{aligned} & \text { Slight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} & 96 \% \text { (26) } \text { Slight } \\ & \text { Obstacle } \end{aligned}$ | $85 \%$ Slight Obstacle |
| KNOWING WHO <br> WILL BUY PRODUCT/SERVICE (M125) | 67\% (6) Slight <br> Obstacle <br> 33\% (3) Obstacle | $\begin{aligned} & \text { 867. (31) Slight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} & \text { 85\% (23) Slight } \\ & \text { Obstacle } \end{aligned}$ | $\begin{aligned} 88 \% & \text { (28) }\end{aligned}$ Slight |
| $\begin{aligned} & \text { ADVERIISING } \\ & (M 127) \end{aligned}$ | 78\% (7) Elight Obstacle <br> 22\% (2) Obstacle | $\begin{aligned} & \text { 69\% (25) Slight } \\ & \text { Obstacle } \\ & \text { O1\% (11) Obstacle } \end{aligned}$ | 81\% (22) Slight Obs:acle <br> 19\% (5) Obstacie | 91\% (29) Slight <br> Obstacle <br> 9\%. (3) Obstacle |

TABLE 60
CROSSTAB - EDUCATION

|  | $\begin{gathered} n=19 \\ \text { No College } \end{gathered}$ | $\begin{gathered} n=30 \\ \text { Some College } \end{gathered}$ | $\begin{gathered} n=61 \\ \text { Coliege To Graduate } \end{gathered}$ |
| :---: | :---: | :---: | :---: |
| AGE (M3) <br> Were only $S$ in The Less Than 30 Group | 58\% (11) 50 Plus Years <br> 427 (8) 30 to 49 Years | $57 \%$ (17) 30 to 49 Years <br> 407. (12) 50 Plus Years | $79 \%$ (48) 30 to 49 Years <br> $13 \%$ (8) 50 Plus Years |
| BIRTH ORDER <br> (MS) <br> (Oniy 11 In <br> Only Child Gr.) | 52: (10) Micdle <br> 37\% (7) Oldest | $3 i z$ (11) Middle <br> 30\% (9) Oldest <br> 20\% (6) Youngest | 34: (21) O1dest <br> 31\% (19) Youngest <br> 22\% (14) Middle |
| NUMBER OF CHILDREN (M10) | 63\% (12) 1 to 2 Children <br> 32: (6) 3 to 4 children | $\begin{aligned} & 50 \% \text { (15) } 1-\% \text { Children } \\ & 27 \% \text { (8) } 3-4 \text { Children } \\ & \text { 13\% (4) 5-6 Children } \end{aligned}$ | 5:: (35) :-2 Children <br> 25:. (15) None <br> 18\% (11) 3-4 Children |
| $\begin{aligned} & \text { TYE OF } \\ & \text { BUSINESS } \\ & (M 20) \end{aligned}$ | 637 (12) Retail <br> 21: (4) Prof. Se= <br> 10\% (2) Personal Ser. | 40: (12) Prof. Ser. <br> 23\% (7) Retail <br> 207. (6) Other | 65\% (40) Prof. Ses. 85\% own <br> 15\% (9) Personal Ser. (73\% <br> 10\% (6) Retzil own 95+90 of business) |
| LOCATION (M21) | 84\% Outside Home | 83\% Outside Home | 85\% Outside Home |
| PERCENT <br> OKNED <br> (M22) | $\begin{aligned} & 74 \%(14)>54 \% \\ & 25 \%(5)<95 \% \end{aligned}$ | $73 \%$ $27 \%$ 27 | $\begin{aligned} & 85 \%(52)>94 \% \\ & 15 \%(9)<95 \% \end{aligned}$ |
| EULL-TIME EMFLOYEES (M25) | 42\% (3) 1-5 Employees <br> 42: (8) No Enployees <br> 10\% (3) 6-11 Employees | $47 \%$ (14) :-5 Employees <br> 33\% (10) No Empioyees <br> i37 (4) 12-46 Empl. | 54: (33) 1-5 Emplovees 25\% (16) No Employees i5\% (9) 6 - 11 Employees |
| HOLRS WOR:ED (Mムy) | 42\% (8) 35-45 Hours <br> 47\% (9) 45 Plus Hes. | $\begin{aligned} & 36 \% \text { (11) } 45 \text { Plus Hes. } \\ & 33 \% \text { (10) } 35-45 \text { Hours } \\ & 30 \% \text { (6) } 5-30 \text { Hours } \end{aligned}$ | $\begin{aligned} & 4 \pi \text { (27) } 35-45 \text { Hours } \\ & 38 \% \text { (23) } 45 \text { P1us Hours } \\ & 18 \% \text { (11) } 5-30 \text { Hours } \end{aligned}$ |
| PRIOR <br> managerial <br> EXPERTENCE <br> (MS8) | 31\% (6) 1-4 Years <br> 26\% (5) None <br> 2:\% (4) 5-9 Years <br> 21\% (4) 10-18 Years | 53\% (16) None <br> 26\% (8) 1-4 Years <br> 10\% (3) 5-9 Years <br> .10\% (3) 10-18Years | 24: (27) None <br> 347 (21) 1-4 Years <br> 13\% (8) 5-9 Years <br> 8\% (5) 10 to 18 Years |
| MANAGERIAL EXPERIENCE IN BUSINESS (M59) | 32\% (6) ! to 4 Years <br> 26\% (5) 5 to 9 Years <br> $21 \%$ (4) $10-19$ Years <br> $21 \%$ (4) 20 Plus Years | 40\% (12) 10-19 Years <br> 27\% (8) 5-9 Years <br> 207 (6) 1 to 4 Years <br> 107 (3) 20 Plus Years | 23\% (26) I-4 Years <br> 267 (16) 5-9 Years <br> 16\% (10) 10 te 19 Years <br> 10\% (6) None |
| OUTSIDE ADVISE RE SALESMANSHIP (M52) | 57\% (8) Seek <br> 437 (6) Do Not Seek | 59\% (13) Seek <br> $41 \%$ (9) do Not Seek | 65\% (31) Do Not Seek <br> 35\% (17) Seek |
| GROWTH OF BUSINESS (M62) | 95\% (18) تery Important <br> 5\% (1) Slightly Impor. | 87\% (26) Very Impor. <br> 13\% (4) Slightly Impor. | 73.. (44) Very important <br> 27\% (16) Slightly Importan: |

TABLE 61

## CROSSTAB - TYPE OF EUSINESS

|  | $\begin{gathered} n=56 \\ \text { Professional } \end{gathered}$ | $\begin{gathered} n=25 \\ \text { Retail Store } \end{gathered}$ | $\begin{gathered} n=16 \\ \text { Personal Service } \end{gathered}$ | $\begin{aligned} & n=14 \\ & \text { Other } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: |
| AGE (M3) | $\begin{aligned} & 73 \% \text { (41) } 40=049 \\ & 23 \% \text { (13) } 50 \text { Plus } \end{aligned}$ | $\left\lvert\, \begin{array}{lll} 52 \pi & (13) & 30 \text { to } 49 \\ 48 \% & (12) & 50 \text { Plus } \end{array}\right.$ | $\left\lvert\, \begin{array}{lll} 56 \% & 9() & 30 \text { to } 49 \\ 25 \% & \text { (4) } & 30 \\ 19 \% & \text { (3) } & 50 \text { Plus } \end{array}\right.$ | $79 \%$ (11) 30 to 49 $21 \%$ (3) 50 Plus |
| BIRTH ORDER (M4) | 36\%: (20) Middle 29\% (16) Oldest 23\% (13) Zoungest | $\begin{array}{ll} 20 \% & \text { (10) Middle } \\ 28 \% & \text { (7) Youngest } \\ 24 \% & \text { (6) Oldest } \end{array}$ | $\left\lvert\, \begin{array}{ll} 63 \% & \text { (10) Oldest } \\ 19 \% & \text { (3) Middle } \\ 13 \% & \text { (2) Youngest } \end{array}\right.$ | $\left\lvert\, \begin{array}{ll} 36 \% & \text { (5) Oldest } \\ 36 \% & \text { (5) Ycungest } \\ 21 \% & \text { (3) Yiddie } \end{array}\right.$ |
| EDUCATION $\left(M_{7}\right)$ | 71\% (40) College <br> 21\% (12) Some College | 48\% (12) No Col. <br> 28\% (7) Some Col. <br> 24\% (6) College | 56\% (9) College <br> 31\% (5) Some Col. | 26\% (6) College <br> 46\% (6) College |
| NLMEER OE CHILDREN (M10) | $52 \%$ $(29)$ 1 to 2 <br> $23 \%$ $(12)$ None <br> $21 \%$ $(12)$ 3 to 4 <br> $2 \%$ $(2)$ 5 to 6 | $\left[\begin{array}{lllll} 65 \% & (16) & 1 & \text { to } & 2 \\ 28 \% & (7) & 3 & \text { to } & 4 \end{array}\right.$ | $56 \%$ (9) 1 to $=$ <br> $25 \%$ (4) None <br> $19 \%$ (4) 3 to 4 | $64 \%$ $(9)$ 1 to 2 <br> $21 \%$ (3) 3 to 4 <br> $14 \%$ (2) 5 to 6 |
| LOCATION <br> (M21) | 86\% (48) Outside Home | 88\% (22) Outside Home | 81: (13) Outside | 79\% (11) Outside Home |
| PERCENT Ohned <br> (M22) | 86\% (48) 95 Plus Per. | 80\% (20) 95 Plus Percent | 75\% (12) 05 Plus Fercent | 64\% (Я) 95 Pius Percent |
| FULL-Time EMPLOYEES (425) | 26\% (26) 1 to 5 <br> 36\% (20) None <br> 11\% (6) $12=046$ | $\begin{aligned} & 56 \% \text { (14) } 1 \text { to } 5 \\ & 28 \% \\ & 16 \% \\ & 17) \text { (4) None } 6 \text { to } 11 \end{aligned}$ | 44\% (7) 1 :c 5 <br> $31 \%$ (5) 6 to 11 <br> 25\% (4) None | 5i\% (8) : 505 <br> 215 (3) None <br> 14\% (2) 12 to 46 |
| $\begin{aligned} & \text { HOURS } \\ & \text { HORKED } \end{aligned}$ (M49) | $\left\lvert\, \begin{array}{llll} 34 \% & (19) & 35 \text { to } 40 \\ 34 \% & (19) & 42 \text { to } 50 \\ 16 \% & (9) & 55 \text { Plus } \\ 16 \% & \text { (9) } 5 \text { to } 30 \end{array}\right.$ | $52 \%$ $20 \%$ (13) 42 to 50 $16 \%$ $12 \%$ 120 (4) 5 Plus 30 (3) 35 to 40 | $38 \pi$ $(6)$ 35 to 40 <br> $31 \%$ $(5)$ 5 to 30 <br> $25 \%$ $(14)$ 42 to 50 | 29:. (4) 3 to 30 <br> 28\% (2) 42 to 50 <br> $21 \%$ (3) 35 to 40 <br> $21 \%$ (3) 55 to 80 |
| PRIOR <br> MANAGERIAL <br> EXPERIENCE <br> (M58) | 437. (24) None <br> 30\% (17) 1 to 4 <br> 14\% (8) 5 to 9 <br> 13\% (7) 10 to 18 | 48\% (12) None <br> 247 (6) 1 to 4 <br> 16\% (4) 10 to 18 <br> 127 (3) 5 to 9 | 56\% (9) 1504 <br> 38\% (6) None <br> $6 \%$ (1) 4 to 9 | 50\% (7) None <br> $21 \%$ (3) 1 to 4 <br> 21\% (3) 1 to 4 |
| EXPERIENCE <br> IN BUSINESS <br> (M59) | 367. (20) 1-4 Years <br> 23\% (13) 5-9 Years <br> 207 (11) 10-19 Yrs. <br> $11 \%$ (6) None <br> Lí (6) 20 Plus | $44 \%$ (11) $10-19$ Yr. <br> $24 \%$ $(6)$ $5-9$ Years <br> $24 \%$ $(6)$ $1-4$ Years <br> $8 \%$ (2) 20 Plus | $44 \pi$ (7) $1-4$ Years <br> 387. (6) 5-9 Years <br> 137 (2) 10-19 Yss. <br> 6\% (1) 20 Plus |  |
| OUTSIDE ADVICE re Salesmanship (M52) | 64\% (29) Do Not <br> 36\% (16) Seek | 53\% (10) Do Not 47\% (9) Seek | 77\% (10) Seek <br> 23\% (3) Do Not | 62\% (5) DO Not <br> 38\% (3) Seek |
| GROWT: 0 : BUSINESS (M62) | 7:7: (43) important <br> 23\% (13) Sligntiy Important | 88:: (21) import. <br> 12\% (3) Siightiy impertant | 75\% (12) Important <br> 25\% (4) Slightly <br> Important | ```93% (!3) Important 7% (1) Siightly Important``` |

TABLE 62
CROSSTAB - LACK OF BUSINESS EXPERIENCE
$n=33$
$\mathrm{n}=7$

| AGE (M3) | 65\%. (21) 30 to 49 <br> 27\% (9) 50 Plus | $\begin{aligned} & 68 \% \text { (50) } 30 \text { to } 49 \\ & 30 \% \text { (22) } 50 \text { Plus } \end{aligned}$ |
| :---: | :---: | :---: |
| BIRTH ORDER (M4) | 42\% (14) Middle <br> 2i: (9) Oldest <br> $18 \%$ (6) Youngest | 36\% (27) Oldest <br> 285 (21) Youngest <br> 27\% (20) Middle |
| EDLCAIION $(417)$ | 4i: (15) College to Graduate <br> 31: (10) Some College <br> 22: (7) No College | 59: (14) College to Graduate <br> 24. (18) Some College <br> 16\%. (12) No College |
| NLMEER OF childaen (M10) | 55\% (18) 1 to 2 Childsen $2=(9) 3=04$ Children $12 \%$ (4) None | $58 \%$ (43) 1 to 2 Children <br> 20\% (15) None <br> $19 \%(14) 3$ to 4 Childsen |
| TiPE OF BUSINESS (M20) | 55\% (18) Professional Service <br> 18\% (6) Personal Service <br> 15\% (5) Other <br> 12\% (4) Retail | ```50% (37) Professional Service 27% (20) Retail 12% (9) Personal Service 11% (8) Othe:``` |
| LOCATION <br> (ㄴ21) | $70 \%$ Outside Home <br> $31 \%$ In Home | 92\% (68) Ourside Home |
| PERCENT <br> CRNED <br> (M22) | 91\% (30) Greater Than 94 Percent | 74\% (55) Greater Than 94 Per. |
| FLLL-TIME EMPLOYEES (M25) | 55\% (19) ! tc 5 <br> 36\% (12) None | 49\% (36) 1 to 5 <br> 26: (15) None <br> 18: (13) 6 to 10 |
| HOURS WORKED (M49) | $36 \%$ $30 \%$ (12) 42 to 50 | $35 \%(25) 42$ to 50 $28 \%(21) 35$ to 40 $19 \%(14) 5$ to 30 $18 \%$ (13) 55 Plus |
| $\begin{aligned} & \text { PRIOR } \\ & \text { MANAGERIAL } \\ & \text { EXPERIENCE (M58) } \end{aligned}$ | 27 (17) None <br> 27\% (9) 1 to 4 <br> $15 \%$ (5) 5 to | 42\% (31) None <br> 34\% (25) 1 to 4 <br> 12\% (9) 5 to 9 <br> 12\% (9) 10 Plus |
| EXPERIENCE in business (59) | $33 \%$ (11) 1 to 4 <br> 30\% (10) 5 to 9 <br> $18 \%$ (6) 10 to 18 | 34\% (25) 1 to 4 <br> 26\% (19) 10 to 18 <br> 24\% (18) 5 to 9 |
| OUTSIDE ADVICE RE SALESMANSHIF (M52) | 62\% (18) Seek Advice <br> 38\% (11) Do Not Seek Advice | 67\% (36) Do Not Seek Advice <br> 33. (18) Seek Advice |

TABLE 63

## CROSSTAB - RAISING CAPITAL

$n=28$
$n=19$
(1) Moderate To Maior Obstacle (i) Siight To No Obstacle

| AGE <br> (M3) | 71: (20) 40 to 49 Years <br> $25 \pi$ (i) SC Plus Years | $\begin{aligned} & 65 \pi \text { (51) } 40 \text { to } 49 \\ & 30 \% \text { (24) } 50 \text { Plus } \end{aligned}$ |
| :---: | :---: | :---: |
| BIRTH OPDER (M4) | $\begin{aligned} & 39 \% \text { (11) Middie } \\ & 36 \% \text { (10) Oldest } \\ & 14 \% \text { (4) Youngest } \end{aligned}$ | $\begin{aligned} & 33 \% \text { (26) Oldest } \\ & 29 \% \text { (23) Oldest } \\ & 29 \% \text { (23) Youngest } \end{aligned}$ |
| EDCCATION <br> (MT) | $37 \%$ (10) College to Graduate <br> 33. (9) Some College <br> 30\% (8) No College | 62\% (49) College to Graduate <br> 24.: (19) Some College <br> 14. (11) No College |
| NLMBER OF CHILDREN (M10) | 5:\% (16) : to 2 Children <br> 28\% (8) 3 to 4 Children <br> 11\% (3) 5 to 6 Children | $\begin{aligned} & 57 \% \text { (45) ! to } 2 \text { Children } \\ & 22 \% \text { (18) None } \\ & 4 \% \text { (15) } 3 \text { to } 4 \text { Years } \end{aligned}$ |
| TipE OF BUSINESS <br> (M20) | 39\% (11) Professional Service <br> 25\% (7) Retail <br> 21\% (6) Other <br> 147 (4) Personal Service | ```55% (44) Professional Service 21% (17) Retail 14% (11) Personal Service 9% (%) Other``` |
| $\begin{aligned} & \text { LOCATION } \\ & \text { (M21) } \end{aligned}$ | 86\% (24) Cutside Home | 85\% (67) Outside Home |
| $\begin{aligned} & \text { PEPCENT } \\ & \text { ONNED } \\ & \text { (M22) } \end{aligned}$ | 79\% (22) Greater Than 94 Percent | 80\% (63) Greater Than 94 Pezcent |
| FULL-TIME E4PIOYEES (425) | 57\% (16) : :0 S Employees <br> 21\% (6) None | 48\% (38) 1 :0 5 Employees 32\% (25) None |
| HOURS HOR:ED (4~9) | 36\% (10) 42 to 50 Hours <br> 21\% (5) 55 Plus Hours <br> 21\% (5) 35 to 40 Hours <br> $21 \%$ (6) 5 to 30 Hours | $35 \%$ (28) i2 to 50 Hours <br> 23\% (25) 35 to 40 Hours <br> 17\% (14) 5 to 30 Hours <br> 15\% (12) 55 Plus Hours |
| PRIOR <br> MANAGEPIAL <br> EXPERIENCE <br> (M58) | 43: (12) None <br> 32\% (9) 1 to 4 Years <br> $14 \%$ (4) 5 to 9 Years | 45\% (35) None <br> 32\% (25) 1 to 4 Years <br> 13\% (10) 5 to 9 Years |
| EXPERIENCE ACQUIRED IN BUSINESS (M59) | 355 (11) 5 to 9 Yeazs <br> 25\% (7) 1 to 4 Years <br> 25\% (7) 10 to 18 Years | 37\% (29) : to 4 Years <br> 17\% (18) 10 to 18 Years <br> 16\% (17) 5 to 9 そeass |
| outside adiice RE SALESMANSHIP (452) | 53.: 1:2) Seeks Advice <br> 48\% (11) Do Not Seek Advice | 60\% (36) Do Not Seek Advice <br> 40\% (24) Seeks Advice |

TABLE 64
CROSSTAB－ESTABLISHING CREDIT
r．$=17$
$n=87$
（1）Moderate To Maior Obstacle
（4）Slight To No Obstacle

| AGE <br> （M3） | 59\％（10） $30 \div 049$ $35 \%: 6\} 50$ Plus |  |
| :---: | :---: | :---: |
| BIRTH： ORDER （M4） | 35\％（6）Oldest  <br> 29\％（5）Middle  <br> $23 \%$ （4）Younges： | 33\％（29）Olciest <br> 33\％．（29）Middle <br> 25\％（22）Youngest |
| EDUCATION （17） | $47 \%$（ 8 ）Some College <br> 29\％．（5）No College <br> 2こ\％（4）College to Graduate | $60 \%$（52）College ：o Grachuate $23 \%$（20）Some College $16 \%$（14）No College |
| $\begin{aligned} & \text { NHBER OF } \\ & \text { CHLDREX } \\ & (M 10) \end{aligned}$ | $\begin{aligned} & 70 \%(12) 1=2 \\ & 18 \% \\ & 12 \% \\ & 12 \\ & \text { (2) } 5=0 \\ & 5 \end{aligned}$ | $\begin{aligned} & 54 \%(47) 1 \text { to } 2 \\ & 23 \%(20) 3 \text { to } 4 \\ & 20 \% \text { (18) None } \end{aligned}$ |
| $\begin{aligned} & \text { T:PE OF } \\ & \text { BUSINESS } \\ & \text { (M2O) } \end{aligned}$ | 41：（i）Professional Service <br> 24\％（4）Fersonal Service <br> 24：（4）Oiher <br> 12：（2）Retāi | 53\％（46）Professionai Service <br> 24\％（21）Retail <br> 13\％（11）Eersonal Service <br> 9\％（10）Other |
| $\begin{aligned} & \text { LOCATION } \\ & (421) \end{aligned}$ | 76\％（13）Outside Home | 86\％（75）Outside Home |
| $\begin{aligned} & \text { PERCENT } \\ & \text { OMNED } \\ & (M 22) \end{aligned}$ | 76\％（13）＞94Percent | 79\％（69）＞3i Percent |
| $\begin{aligned} & \text { ELLL-TIME } \\ & \text { EMPLOYEES } \\ & (Y \geq 5) \end{aligned}$ | 47\％（8） 1 to 5 <br> 35\％（6）None | 51\％（44） $1=05$ <br> 28：．（24）None <br> 13\％（11） 6 to 10 |
| HOURS WORKED （M49） | 53 $(9)$ 42 20 <br> 50    <br> $29 \%$ $(5)$ 5 $=0$ <br> $12 \%$ $(2)$ 35 $=0$ | $\begin{aligned} & 33 \%(29) \\ & 35 \text { to } 40 \\ & 31 \%(27) \\ & 42 \text { to } 50 \\ & 20 \%(17) \\ & 55 \text { Plus } \\ & 16 \%(14) \\ & 5 \text { to } 30 \end{aligned}$ |
| PRTOR <br> MANAGERIAL <br> EYPERIENCE <br> （M58） | 35：（6）！to 4 <br> 29：（5）None <br> $24 \%$（4） 5 to 9 | 4i\％（41）None <br> 32：（28） 1 to 4 <br> 10：（9） 5 to 9 <br> 10\％（9） 10 Plus |
| MGR．EXFERIENCE IN BUSINESS （：159） | 41\％（7） 1204 <br> 35\％（5） 10 ？lus <br> 24\％（4） 5 20 9 | $\begin{aligned} & 32 \pi(28) 1 \text { to } 4 \\ & 28 \%(24) 5 \text { to } 9 \\ & 19 \% \text { (17) } 10 \text { Plus } \end{aligned}$ |
| OLTSIDE ADIICE RE SALESMANSHIP （M52） | 54：（7）Seek Advice <br> 46\％（6）Do Not Seek Advice | 59\％（40）Do Not Seek Advice <br> 41\％（28）Seek Advice |

TABLE 65
CROSSTAB - FINANCIAL MATTERS

|  | (!) Moderate To Major Obstacle $n=23$ | (4) Slight To No Obstacle $x=83$ |
| :---: | :---: | :---: |
| AGE <br> (M3) | 65\% (15) 30 to 49 Years <br> 30\% (7) 50 Plus Years <br> 4) (1) Less Than 30 Years | $\begin{aligned} & \text { 66\% (55) } 30 \text { to } 49 \text { Years } \\ & 29 \% \text { (24) } 50 \text { Plus Years } \\ & 5 \% \text { (4) Less Than } 30 \text { Years } \end{aligned}$ |
| BIRTH ORDER (M4) | 39\% (9) Oldest Child <br> 35\% (8) Middle Child <br> 22\% (5) Youngest Child <br> 4:. (1) Oniy Child | 33\% (27) O1dest Child <br> 31\% (26) Middle Child <br> 26\% (22) Yeungest Child <br> 10\% (8) Oniy Child |
| EDUSATION <br> (M3) | $\therefore 2 \%$ (9) Coliege - Graduate bork <br> 42\% (9) Some College <br> 18\% (4) No College | 59:. (49) College-Graduate work <br> 23: (!9) Some College <br> 18\% (15) No College |
| MEMBE? OF CHILDREN (M10) | 57. (13) 1 to 2 Children <br> 17\% (4) No Children <br> :7: (4) $3=0$ \& Childzen <br> 97 (i) 5 to 6 Childzen | 58\% (48) 1 : 02 Children <br> 23: (19) 3 to 4 Children <br> 1\% (14) No Children <br> $2 \pi$ (2) 5 to 6 Children |
| TYEE OE BUSINESS <br> (M20) | 39: (9) Drofessional Service <br> 17: (4) Fersonal Service <br> 30\% (7) Retail Store <br> 13. (3) Other | 5~J (iS) Professional Service <br> 20\% (17) Retail Store <br> 18. (1:) Personal Service <br> 120 (10) Other |
| $\begin{aligned} & \text { LOCATION } \\ & (H 21) \end{aligned}$ | 87\% (20) Outside Home | 8:\% (70) Outside Home |
| $\begin{aligned} & \text { PERCENT } \\ & \text { O:nSD } \\ & (!22) \end{aligned}$ | 78\%: (18) Greater Than 94, Ownership <br> 22: (5) Less Than $95 \%$ Ownership | 80: (56) Greater Than 95: Ownersh. <br> 20\% (17) Less Than 94\% Omership |
| FULi-TYME EMPLOTEES (M25) | 6:\% (14) : :0 5 Employees <br> 22\% (5) No Employees <br> 9\% (2) 6 :0 11 Employees <br> 9\% (2) 12 :0 46 Employees | 48\% ( 40 ) 1 to 5 Empioyees <br> 30\% (25) No Employees <br> 14\% (12) 6 :0 11 Enployees <br> 7\% (6) 12 to 46 Employees |
| HOLRS WORKED (M49) | $30 \%$ (9) 42 to 50 Hours <br> 22\% (5) 35 to 40 Hours <br> 22\% (5) 5 to 30 Hours <br> 17\% (4) 55 Pius Hours | $38 \%$ (28) 42 to 50 Hours <br> 31\% (26) $35=040$ Hours <br> 18\% (15) 5 to 30 Hours <br> $17 \%$ (14) 55 Pius Hours |
| PRIOR <br> managerial <br> EXPERTENCE <br> (M58) | 52\% (12) None <br> 26\% (6) 1 to 4 Years <br> 13\% (3) 5 to 9 Years <br> 9\% (2) 10 Plus Years | 42\% (35) None <br> 34\% (28) 1 to 4 Years <br> 13\% (11) 5 to 9 Years <br> 11\% (9) 10 Plus Years |
| EXPERIENCE <br> IN BUSINESS <br> (.459) | 30\% (7) 1 to 4 Years <br> 30\% (7) 10 to 19 Years <br> 26: (6) 5 to 9 Years <br> 8\% (2) 20 Plus Years | 35\% (29) 1 ic 4 Years <br> 27\% (22) 5 to 9 Years <br> 20: (17) 10 to 19 Years <br> 11\% (9) 20 Plus Years |
| OUTSIDE ADVICE RE SALESMANSHIP (بS2) | 57\% (12) Seek Outside Advice <br> 437. (9) Do Not Seek Outside Advice | 61: (37) Do No Seek Outside Advice <br> 39\% (24) Seek Outside Advice |

TABLE 66
CROSSTAB - DEALING WITH CUSTOMERS

|  | (1) Moderate To Major Obstacle $n=7$ | (4) Slight To No Obstacle $n=98$ |
| :---: | :---: | :---: |
| AGE <br> (H3) | 71\% (5) 30-49 Years <br> 29\% (2) $50+$ Years | $\begin{aligned} & 65 \% \text { (64) } 30-49 \text { Years } \\ & 30 \% \text { (29) } 50+\text { Years } \\ & 5 \% \text { (5) Less Than } 30 \text { Years } \end{aligned}$ |
| BIRTH ORDER (M4) | $\begin{aligned} & \text { 71\% (5) Middle Child } \\ & 14 \% \text { (1) Youngest Child } \\ & 14 \% \text { (1) Only Child } \end{aligned}$ | 36\% (35) Oldest Child <br> 30\% (29) Middle Child <br> 26\% (26) Youngest Child <br> 8\% (8) Only Child |
| EDUCATION (M7) | 50: (3) Some College <br> 50\% (3) Cullege to Graduate | $\begin{aligned} & 56 \% \text { (55) College to Graduate } \\ & 22 \% \text { (2ذ) Some College } \\ & 19 \% \text { (19) No College } \end{aligned}$ |
| NJMBER OF CHILDREN (M10) | il: (5) 1 to 2 Children <br> 14: (1) No Children <br> 14\% (1) No Children | $\begin{aligned} & 56 \% \text { (55) } 1 \text { to } 2 \text { Children } \\ & 22 \pi(22) 3 \text { to } 4 \text { Children } \\ & 172 \text { (17) No Children } \end{aligned}$ |
| TiPE OE BUSINESS (M20) | 23\% (3) Professional Service <br> 28. (2) Retail Store <br> 28\% (2) Other | ```52% (51) Professional Service 22%. (22) Retail Store :4% (14) Personal Service 11% (11) Other``` |
| $\begin{aligned} & \text { LOCATION } \\ & \text { (M21) } \end{aligned}$ | 71: (5) Outside Home <br> 29: (2) In Home | 86\% (84) Outside Home 14\% (14) In Home |
| $\begin{aligned} & \text { PERCENT } \\ & \text { OWNED } \\ & \text { (M22) } \end{aligned}$ | 100\% (7) Greater Than 94\% Omed | 78\% (76) Greater Than 94\% Owned |
| FULL-TIME EMPLOYESS (M25). | 71\% (5) i to 5 Employees <br> 29\% (2) 12 to 46 Employees | 49\% (48) 1 to 5 Emplovees <br> 31\% (30) No Employees <br> 14\% (14) 6 to 11 Employees |
| HOURS WORKED (M49) | 297 (2) 42 to 50 Hours/Week <br> 29\%. (2) 35 to 40 hours/Week <br> 297. (2) 55 Plus Hours/Week <br> 14\% (1) 5 to 30 Hours/Week | 36\% (35) 42 to 50 Hours/week <br> 297 (28) 35 to 40 HoursiWeek <br> 18\% (18) 5 to 30 Hours/Week <br> 16\% (16) 55 Plus ticurs/Week |
| PRIOR <br> managerial <br> EXPERIENCE <br> (458) |  | 44\% (43) No Years <br> 32\% (31) 1 to 4 Years <br> 14\% (14) 5 to 9 Years <br> 105 (10) 10 Plus Years |
| MGR. EXPERIENCE IN BUSINESS (M59) | 43\% (3) 10 to 19 Years <br> 297. (2) 1 to 4 Years <br> 14: (1) 5 to 9 Years | 32\% (34) 1 to 4 Years <br> 27\% (25) 5 to 9 Yeazs <br> 21\% (21) 10 to 19 Years |
| OUTSIDE ADVICE RE SALESMANSHI? <br> (M52) | 71: (5) Do No: Seek Advice <br> 29\% (2) Seek Advice | 55\% (4!) Do Not Seek Advice <br> 45\% (33) Seek idvice |

TABLE 67
CROSSTAB - KNOWINS WHO WILL BUY PRODUCT/SERVICE
$n=16$
ก $=88$

| AGE (43) | 69\% (11) 30 to 49 Years <br> 25\% (4) 50 Plus Years <br> $6 \%$ (1) Less Than 30 Years | 66\% (58) 30 to 49 Years <br> $30 \%$ (26) 50 Plus Years <br> $4 \pi$ (4) Less Than 30 Years |
| :---: | :---: | :---: |
| BIRTH ORDER (M4) | 31\% (5) Oldest Child <br> 25: (4) Middle Child <br> 25\% (4) Youngest Child <br> 19\% (3) Only Child | 35\% (31) Oldest Child <br> 31:. (28) Middle Child <br> 25\%. (23) Youngest Child <br> 7\% (6) On! $\because \because$ Child |
| EDCことTION <br> ( $\mathrm{Mi}^{\circ}$ ) | 4i\% (i) College to Graduate <br> 4i: (i) Some College <br> 6\% (1) No College | 57\% (50) College te Graduate <br> 24. (21) Some College <br> 19\% (17) No College |
| NUMSER <br> OF CHILDREN $(M 10)$ | 81:: (13) 1 to 2 Children <br> 19\% (3) 3 to 4 Children | 53\% (47) 1 to = Children <br> 22\% (19) 3 to A Children <br> 20\% (18) No Children <br> 5\% (4) 5 :0 6 Childiten |
| TYPE OF SUSINESS (M22) | 56\% (0) Professional Service <br> 25\% (i) Other <br> 13.: (2) Personal Service <br> 5\% (i) Retail Store | 50\% (44) Professional Service <br> 26:. (23) Retail Store <br> 14: (12) Personal Service <br> 10\% (9) O:he: |
| $\begin{aligned} & \text { LOCATION } \\ & \text { (M21) } \end{aligned}$ | 81: (13) Outside Home | 86\% (76) Outside Home |
| PERCENT <br> OWNED <br> (M22) | 94\% (15) Greater Than 94 Percent | 76\% (67) Greater Than 94:. Percent <br> 24\% (21) Less Than 95\% Percent |
| $\begin{aligned} & \text { FULL-TME } \\ & \text { EMPLO:EES } \\ & \text { (M25) } \end{aligned}$ | 56\% (9) 1 to 5 Enployees <br> 3:: (5) No Employees <br> 13\% (2) 12 to 46 Emplovees | 51: (45) : to 5 Employees <br> 25\% (23) No Employees <br> 16\% (14) 6 :0 11 Employees |
|  | 38\% (6) 5 to 30 Hours Per Week <br> 25\% (4) 35 to 40 Hours Pe: Week <br> 25\% (4) 42 to 50 Hours Pe: Week <br> 12\% (2) 55 Plus Hours Per Week | 38\% (33) 22 to 50 Hours Pez Heek <br> 307 (26) 35 to 40 Hours Per Week <br> 18\% (16) 55 Plus Hours Pe: week <br> 15\% (13) 5 to 30 Hours Per Week |
| PRIOR <br> MANAGERIAL <br> EXPERIENCE <br> (M58) | 56\% (9) None <br> 31\% (5) 1 to 4 Years <br> 13\% (2) 5 to 9 Years | 43\% (38) None <br> 317 (27) 1 to 4 Years <br> 140 (12) 5 to 9 Years <br> 12: (11) 10 Plus Years |
| MGR. EXPERIENCE <br> IN BUSINESS <br> (M59) | 38: (6) 5 to 9 Years <br> 31\% (5) 1 to 4 Years <br> 12: (2) 10 to 19 Years <br> 12\% (2) 20 Plus Years | 33\% (29) i to 4 Years <br> 25: (22) 5 tc 9 Years <br> 25\% (22) 10 to 19 Years <br> 10\% (9) 20 Plus Years |
| OUTSIDE ADVICE pe salesmanship (452) | 607. (9) Seek Advice <br> 40\% (6) Do Not Seek Advice | 61: (40) Do Not Seek Advice <br> 39\% (26) Seek Advice |

## SURVEY OF FETALE BLSINESS DHNEPS IN DKLAHOTA

## A. PERSOHAL CIMRACTERISTICS

A-1 In what state were you borm? $\qquad$ -

A-2 Which of the following best deseribes you?

1. Slack/flegro
2. Hative American/American Indian
3. Sranish/hisoanic origin
4. WhitelCaucasian
5. Other-ilease specify

A-3 What is your age? (circle answer)

1. Under 20 years
2. 20-20
3. $30-39$
4. 40.49
5. 50-59
6. 60-64
7. Over 65 years

A-4 Which of the following best describes you? (efrcle answer)

1. I am an only ehtla.
2. I am the oldest child in a family of more than 1 child.
3. I am the youncest child in family of more than 1 child.
4. I am neither the oldest child nor the youngest child.

A-5 that is your oresent marital status? (circle answer)

1. Married __Answer Oues:ion A-6
2. Living tooe ther
3. HIdowed
 Answer Duestion A-7
4. Separated
5. SedaratedSkip A6 and A7

A-6 circle the number which best characterizes major decision-making in your household.
Female has Maleffemale have Male has
most influence $2 \quad$ equal influence $2 \quad 3 \quad$ most influence

A-7 Cfrcle the number which best characterized major decision-making in your household Female had

Malelfemale hao Maie had
most influence
equal influence $a$ most influence

A-B What is the hinhest level of education that you have completed? (efrcle answer)

1. No formal education or some grade school
2. Completed grade school (8th arade)
3. Coroleted hioh school (12th orade or GED equivalent)
4. Technical school (nct associated with a Collega or University)
5. Sore college
6. Associate deoree (from a Junior Collene or University)
7. Completed colleoe (4 years) Major field
8. Graduate work/degree

Page 2
A- 9 How satisfied are you with the amount of efucation you recelved? Circle the nurnber which corres closest to how satisfled or dissatisfled you feel.

1. Completely satisfied

2
3
4. Neutral

5
6
7. Completely dissatisfied

A-10 How many ctildren do you have? $\qquad$
A-11 What is the highest level of education comoleted by the persons who ralsed you? Father or Mother or
Male Female
Guardian Guarcian


A- 13 Please cfrcle YES or NO for each question.

1. YES 2.100 a. A member of my famil; or a close relative was an independent farmer or owned another type of business.
2. YES 2. 110
b. A member of my family or a close relative is/was an inczunnoent professional, that is docter, lawyer, veterinarian, dentist, etc.
$\qquad$ c. Before l went into business. I admired someone personally (other than muself or a relative) who started their ow business.

## E. FIP! EHADACTEPISTICS

B- 1 that type of business do you currently own? (circle answer and specify type)

1. Aris and/or Crafts - What type?
2. Services - Lhat tyoe?
3. Pe:atl store - what tyre?
4. Manufacturina/molesale - What type:
5. Other - Specify type

B- 2 lay business is located in: (circle answer)

1. Shodotno mall
2. Central business district
3. Business complex
4. Other - Dlease specify $\qquad$
8-3 What dercent of your current business do you own? $\qquad$ *

B -4 Hhe: dersent of your current business is ormed by other ferales? $\qquad$ :

B -5 What was the date you began oderatina your current business? Month___ Year $\qquad$
B-5 How many emplovees (including yourself and co-owners, if any) does your firm currently empoy?
nurter of full-time offlovens ( 30 hours per week or more)
$\qquad$ numer of part-time emplovees (less than 30 hours per keek)
B. 6 Circle 1 if the statement adolies to your first business andor 2 if it apolies to your curfent business.
First Curren:
1
1
1

Hy business was oreviousily owned by someone in my famlly or relative.
$\begin{array}{llll}1 & 2 & \text { b. My business is/was located in my home. } \\ 1 & 2 & \text { c. My business is/was a sole proprietorshio. } \\ 1 & 2 & \text { d. My business is/was a partnersitio. } \\ 1 & 2 & \text { e. My business is/was a cormoration. }\end{array}$
B- 7. For your last busfness year. Diease indicate the following. Round the nurbers to the nearest thousand (000) state year - 10 $\qquad$ .

| 1. Total Sales |  |  |
| :--- | :--- | :--- |
| 2. Net profit | $s$ | (of your business) <br> 3. Total Assets <br> 4. Total Liabilities your business) |
| (used in your business) |  |  |

B. 8 Aooroximately how many hours ner week do you work in your business? $\qquad$ hrs. Der meek

B- 9 Do you own $\qquad$ or rent $\qquad$ your buildina?

## C. MANAGEMENT FACTORS

C. 1 In what areas and by what methods have you sought outstde advice from experts and/or professionals regardine your business? If you used more than one method, citele each one. Methods of Seekinn Advice
Conference Contacts Govt/ManageWorkshod With Experts ment or Seminar Professionals Assistance None
a. Eusiness law, govt. requlations,
taxes...................................... la
18
2a
$3 a \quad 4 a$
b. Salesmanshic...............................
c. Accountino (other than taxes)....... ic
e. Management
e. Finance. le

g. Other-please specify $\qquad$ 19
20

| 20 | $3 a$ |
| :--- | :--- |
| $3 b$ |  |

ow
did you have prior to owning your own business? $\qquad$ vears

C-3 How many years of managerial experfence have you aequired during business ownersnip? $\qquad$ years

## D. ATTITUDIHAL FACTOPS

D- 1 As a husiness owner, how imortant are each of the followino to you personally? (circle anstrer)

Not Very Siinhtly "oderately Extremely Imortant Imoritant Imortant imoortant


D- 2 Please indicate how true each statenent is about your business. (Circle the best answer)


D- 3 Dlease indicate how you mersonally AGP.EE or DISACREE with each of the faliowing staterenis. (circle answer)

a. I generally succeed at whatever 1 decide to do........................................
b. i orefer to work with exmerts rather than friends........................................ it
C. "y narents set hinh achievement standards for me................................................
d. I often feel that 1 can to a job better than anvone else................................... a Desition to control and direct...........
f. I enjov working at tasks which renuire a


| $1 a$ | $2 a$ | $3 a$ | $4 a$ | $5 a$ |
| :--- | :--- | :--- | :--- | :--- |
| 10 | $2 b$ | $3 b$ | $4 b$ | $5 b$ |
| 16 | $2 c$ | $3 c$ | $4 c$ | $5 c$ |
| $1 d$ | $2 d$ | $3 d$ | $4 d$ | $5 A$ |
| $1 e$ | $2 e$ | $3 e$ | $4 e$ | $5 e$ |
| $1 f$ | $2 f$ | $3 f$ | $4 f$ | $5 f$ |
| $1 a$ | $2 g$ | $3 g$ | $4 g$ | 59 |
| $1 h$ | $2 h$ | $3 h$ | $4 h$ | $5 h$ |

D- 4 Hnw do you feel about your oresent life? Here are some words and ahrases we would like vou to use to describe how vou feel about your rresent ilfe. Circle the most abdropriate number that enmes closest to how you feel.


D- 5 How satisfied are you uith different narts of your life and experience?
Plezse ctrlee the most annronflate numer.

| Situation | Situation |
| :--- | :--- |
| ir Terrible |  |$\quad$ is Perfect



## E. OBSTACLES

E- 1 Dlease indicate whether, at one tire, the followinc factors presented obstacles to you in starting or oderatinn your business.
Major Moderate Sifont Mot a
Obstacle Otstacle Obstacle Problem

| a. Lack of previous business experience............ | 12 | 2 a | 3 a | 4 a |
| :---: | :---: | :---: | :---: | :---: |
| b. Difficulty in raising cadital | $10$ | $2 b$ | 36 | 4 b |
| c. Lack of self-confidence............................. | 1 c | 25 | 35 | 4 c |
| d. Childraising resconsibilities..................... | 14 | 20 | 3 d | 4. |
| e. Difficulty in obtaining expert advice........... | le | 2 e | 3 l | 4e |
| f. Lack of encouracerent from family and/or close relatives. | 19 | 2f | 3 f | 49 |
|  | 19 | 29 | 39 | ${ }_{89}$ |
| h. Dffciculity in obtaining contracts............... | in | $2 h$ | 3 h | $4{ }_{4}$ |
| 1. Difficulty in obtaining suopliers............... | 11 | 21 | 34 | 41 |
| 1. Difficulty tr establishing credit................ | 11 | 21 | 3 j | $4 \frac{1}{4 k}$ |
| k. Lack of adequate working cadital................. | 1 l | 2k, | 3 l | 41 |
| 1. Lack of adeauate inventory......................... | 11 | 21. | 31 | 41 |
| m. Other-diease snecify $\quad 1$ | 1 m | 2 m | $3 m$ $3 n$ | $4 m$ 40 |
| ก. Keoginc business recoros........................... | 1 n | 20 | 3 n | 4 4 |
| 0. Financial matiers (loans, budgets, meney, etc) | 10 | 20 | 30 | 40 |
| D. Manaoing emplovees................t..........b.... | 10 | 20 | 30 | 40 |
| Q. Dealing with customers............................ | la | 29 | 30 | 4 a |
| r. Knowing who the oroole are that may buy your produe: $\qquad$ | It | $2 r$ | 3 r | $4{ }^{4}$ |
| 5. Business law, oovernment requlations, taxes... | is | 25 | 35 | 45 |
| t. Advertisinc..... | 14 | 2: | $3 t$ | $4 t$ |


[^0]:    *For more information about black and white slides or enlarged paper reproductions. please contact the Dissertations Customer Services Department.

[^1]:    1. The Guide to the U.S. Department of Commerce for women Business Owners (Wasingeon, D.C.: Government Printing OfEice).
[^2]:    11. The Guide to the U. S. Department of Commerce, p. 2.
    12. White House Commission on Small Susiness, jmerica's Small Susiness Economy $=$ Egenda Eor Ection, Report to the Presiciat, Ep:ii.
[^3]:    13. U. S. Small Business hiministration, Eacts Bbout Small Susiness and the U. S. Small Business Administration, 1979.
    14. White House Commission on Smail Susiness, p. 10.
    15. SBix, Eacts About Smail Susiness, pp. シ-4.
    16. U. S. Department of Commerce, The Sotiom inne, ?. 4s.
[^4]:    1. William j. Baumol, "Entrepreneursinp in Economic Theory," American Economic Review 58 (Kay, 1966): 64-65.
    2. James $\because$. Solさow, "The Entrepreneur in Economic :istory." imerican Economic Revieu 50 (May, 1960): $54-94$.
[^5]:    7. See ミxinibiた 5.
[^6]:    10. Definition of R. H. Brockhaus (1980), p. 4: Locus of Control: "The belieE that a person perceives that the event is contingent upon his own behavior or his own relatively permanent characteristics."
[^7]:    ii. J. R. Mancuso, "What It Takes to Se an Entrepreneur: غ̀ Questionnaire Approach," Journal of Small Susiness Management 12 (October, 1974): 17.
    22. Merrili E. Douglass, "Relating Eciucation to Entrepreneurial Success." Susiness Hor:zons 19 (Decemier, 1975): 41.

[^8]:    i三．Philip K．Serger and Jonn M．Ivancevich，＂Eirth Order and Managerial Achievement．＂hcademy of Management journal io（Seprember， ミミ7ミ）：5i5－516．

[^9]:    14. Hans Sciollhammer and Erthur : K. KuriloEE, Entrepreneursinip anc Smell Eusiness Management (New York: Join Wiley \& Sons, 1979), p. Z79. 15. İid., p. vii.
[^10]:    17．Eleanor 3．Schwartz，＂Entrepreneurship：ENew Eemale Erontier，＂Journal 0E Contemporary Business 5 （Winter，1975）：59．

    10．Schollhammer and Kurilosf．E． 24.
    19．Elizabeth $ษ$ ．Deran，The Successful Shopkeeper：i Study of Retaiier Survivai in Nine Communities（Springfield，IlI．：University of Fi三incis，l963j，citecin Sharon E．Iockwood dissertation，＂Why Minority Entrepreneurs Eail：ì Quantitative Analysis＂（American University， こ：75）．巳．б8．

[^11]:    1．Early entrepreneurs often came from a backgrounc of Eathers who were smail entrepreneurs or laborers；whereas tine Eatiners $\approx$ managers were often business executives or ownec large businesses．

[^12]:    2. Demarest, "women Kinaing Their Own Susines," pp. 50-6..
[^13]:    4. İid., p. 94.
[^14]:    

[^15]:    Personal Characteristics
    In describing the responses，the frequency and percentage will be presented for certain major responses；other percentages will be veriaily discussei．In general，the description will Eoliow the order of the questions on the survey unless several reiated questions are grouped together．

    State Sorn，Race，童ge．The number of female business owners born within Oklahoma and those born outside of Oklahoma were approximately equal： $49.6 \%$ were born in Ohlahoma and $50.4 \%$ were born outside of Ohlahoma．Ninety－six percent of the respondents were white，while $67 \%$ were in the 30－49 age category：

[^16]:    Source: Detailed Population Characteristics - Oklahuaz - 1980 U. S. Department of Commerce, Bureau of the Census, Table 222, Tocal Female Experienced Civilian Labor Force.

