#### COMMERCIAL DEVELOPMENT AT A NEW DUDLEY SQUARE MBTA TRANSIT STATION IN ROXBURY

A Theory of the Use of Mass Transportation to Stimulate Economic Development The Application of Project Investment Analysis to Community Economic

Development

Volume I: A Market Feasibility Analysis

by

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#### ABSTRACT

- i -

COMMERCIAL DEVELOPMENT AT A NEW DUDLEY SQUARE MBTA TRANSIT STATION IN ROXBURY by: Brian Yoneoka This thesis contributes to four levels of analysis. First, a theory of ghetto economic development is presented, called the "transportation-commercial development model". This is a special case of the more general "Social Overhead Capital (SOC) - Directly Productive Activity (DPA) Process" of development theory. Second, a development program of transportation, of commercial, and of land development for Roxbury's Dudley Square is formulated. The heart of the transportation plan is a new transit line and a pedestrian-bus mall; that of the commercial program is a new supermarket/junior department store and an automobile dealer retail complex plus a food wholesale store. The transportation and commercial programs are united in a joint land development program. Third, three techniques of analysis are proposed for the formulation of any ghetto economic development program: these are marketing, financial and cost-benefit analyses. Only the marketing analysis is made in volume I of the markets of transportation, commercial enterprise and land. Fourth, three development institutions are proposed for generating ghetto economic development. These are backward integrated economic structures, land banks or land trusts, and development banks. Only the market institution of backward intedgrated economic structures is examined in volume I.

Thesis Supervisor: Bennett Harrison

Dept. of Urban Studies & Planning December 1974

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I chose to study a field at MIT for which there was no curriculum to speak of. I was able to put together a program only with the consel of my other advisor and friend, Professor Bennett Harrison. Bennett helped me to learn what economic development is about and thereby made my two last years at MIT meaningful.

I could not have done this thesis without working at Circle, Inc. I wish to thank Chuck Turner, Exec. Dir., who provided me the means of returning to the urban expressway issue at this later stage of economic

- ii -

development. When I left the urban expressway controversy in 1971, I left alone. Chuck helped me to reconcile my role, to accept my fate and to work again without bitterness.

I want to thank Rick Grey, Manager of the Circle Venture Capital, Fund, Inc. who hired me for the summer of 1974 to do the bulk of the work in this thesis. Rick had enough faith in me to give me the freedom in my work that I so desired.

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#### BACKGROUND HISTORY: The Urban Transportation Issue in Roxbury

#### Activism of Roxbury Community Organizations

By January, 1972, the Southwest Corridor Land Development Coalition (SWCLDC) was well underway. This unusual coalition of community organizations and agencies from black Roxbury and white Irish Jamaica Plain, was formed for three reasons:

- in opposition to the construction of a 6-lane Southwest Expressway through their respective communities,
- (2) in support of the construction of the new orange line mass transit facility, and
- (3) in advocacy of the development, both interim and long-range, of the cleared land of the proposed expressway route.

In June of 1972, the SWCLDC published it <u>Report</u> which outlined specific recommendations of transit and of land use projects. These included:

- the construction of a circumferential transit line from the new orange line at Ruggles Street to Dudley Station,
- (2) the renewal of the Dudley Station shopping area, and
- (3) the use of the cleared land near Dudley Station for commercial use.<sup>1</sup>

The Cities, Inc. report was staffed by a consultant, Keerock

Rook, the planner of Donald Stull Associates, David Lee, graduate students from the Harvard Graduate School of Design and MIT Urban Systems Laboratory, with help from an architect of the Greater London Council of the Thamesmead.

<sup>&</sup>lt;sup>1</sup>Dimancescu, Daniel, et al. <u>Report of the SW Corridor Land Development</u> Cities, Inc. June 1974 Cambridge, Massachusetts

#### Gubernatorial Policy

On November 30, 1972, Governor Francis W. Sargent, in response to the communities of the SWCLDC among others, declared that the Southwest Expressway (I-95 South) would be cancelled, thereby putting an end to further urban expressway construction in Roxbury.

Further, he declared that,

"...with the relocation of the Orange Line form the Washington Street Elevated to the cleared land corridor," (i.e., the corridor of the cancelled Southwest Expressway) "it is clear that a replacement service must be provided for the South End, Roxbury, Dorchester, and Mattapan."

This began a new era of mass transportation development in Roxbury.

And finally, the Governor called for the implementation of,

"...a program for the sound and sensitive redevelopment of the cleared land in the corridor".<sup>2</sup>

In order to formulate a development program, the Governor declared that he would appoint a Southwest Corridor Development Coordinator to manage interim land use, relocation of hardship cases, design of the arterial street to be constructed instead of the urban expressway, supervision of an inter-agency planning process and design of the transportation and land development program.

The Development Coordinator would work closely with the Office of the Governor and the Mayor of Boston. The major agencies would work with the Coordinator. These agencies include the Department of Public Works, the Massachusetts Bay Transportation Authority, the Metropolitan District Commission and the Boston Redevelopment Authority.

- v -

<sup>&</sup>lt;sup>2</sup>Sargent, Governor Francis W. <u>Policy Statement on Transportation in</u> <u>the Boston Region</u>, Office of the Governor, Commonwealth of Massachusetts, November 30, 1972

Finally, a Community Advisory Council would be appointed. All these parties would be represented on a Steering Group to review the work of the development staff and the consultant, and advise the Development Coordinator on the formulation of the development program. In August of 1973, Anthony Pangaro, a planner of the NY Urban Development Corporation, was appointed Development Coordinator by the Governor. Pangaro chose the land use and mass transit planë of the SWCLDC to serve as a basis for subsequent planning. No Community Advisory Council has been appointed.

That same month, the U.S. Congress passed the Federal Highway Actoof 1973, which tapped the Highway Trust Fund for Mass Transit, making the funds allocated to the cancelled urban expressway system inside Route 128 available for substitute mass transit construction.<sup>3</sup> Governor Sargent's Secretary of Transportation and Construction, Alan Altshuler, is credited with the effective lobbying of the amendment to the act in the office of powerful Congressman, Jennings Randolph, chairman of the Senate Committee of Public Works.

On May 24, 1974, Urban Mass Transportation Administration head, Frank C. Herringer and new Federal Highway Administrator, Norbert T. Tieman, granted approval of the conversion of transportation funds to Massachusetts in the vicinity of Six hundred sixty-five million to six hundred seventy million dollars.

On September 4, 1974, acting on the recommendations of Alan Altshuler and Tony Pangaro, the Governor announced that in addition to the Roxbury replacement service, there will be,

"...a new crosstown transit system...planned to tie the Green, Red & Orange Lines together outside Boston".

- vi -

<sup>3</sup>Public Laws 93-87, 93rd Congress, S502, August 13, 1973. See also Section 142 of Title 23, (c) "United States Code".

and,

"...the funds for these projects will be made available as a result of Interstate Transfer of Federal Funds".

Therefore, between August 1973 and September 1974, the crucial federal funding that is 90% of the total cost of construction of mass transit lines, was committed by executive declaration. Transportation development took its next critical step toward realization. The state matching grant of 10% is still pending legislative passage of a bond issue.

Governor Sargent went further on his land development policy:

"...new private development will utilize the cleared land, new commercial complexes...are included".

In particular, there are,

"...fourteen acres (600,000 square feet) for major commercial retail development (at) transit stations".<sup>4</sup>

As of December 1974, this enlightened urban economic development policy recognizes four major components of a state strategy:

- (1) the use of the construction of mass transit facilities for economic development in low income communities;
- (2) the use of land cleared for a transportation facility for commercial development;
- (3) the prime opportunity for retail development around a transit station; and,
- (4) the possible need for public control over that development to insure that the benefits of that transit station will accrue to the local community.

Release #4/SR/2, Governor's Press Office, State House, Boston. For release, Wednesday, September 4, 1974

#### In Steps Circle, Inc.

In November, 1972, the chairman of the Southwest Corridor Land Development Coalition became the Executive Director of Circle, Inc. Circle is a community development corporation (CDC) funded under the Special Impact Program of the Office of Economic Opportunity. Circle's mandate is to provide local economic development for the black community of Roxbury.

What is significant about the overlap in leadership is that now Roxbury has the local instrument to effect the commercial development tied to transit construction and arterial street improvement. Circle now supplements the political base formed by the Southwest Corridor Land Development Coalition.

Circle, Inc., under the new leadership of Charles T. Turner, is now considering major investment into commercial development in Dudley Square tied to the replacement mass transit facility to be built in Roxbury.

#### Summary

In this background history, we have reviewed how the conception of economic development evolved from the development of cleared land in reaction to the devastation of the impending construction of an urban expressway to the development of built-up land in anticipation of the fought-for construction of a mass transit facility. Later in this thesis, we shall examine more sophisticated design and use of several mass transit facilities to increase the stimulus to commercial development.

As the conception changed, so has the organization of community institutions, from a political coalition, to a community development corporation, to a land holding instrument. This, too, we shall explore in this work.

Third, economic development has become possible only through government policy and its use of public resources. First, the expressway was cancelled in favor of mass transit; then, funding (at least Federal funding) was secured for mass transit. Land development of the cleared land was declared of high priority. And the opportunity for commercial development around transit stations was recognized. This policy, too, must progress further. And resources are needed for development projects to be realized.

And, finally, the progressive policy of economic development arose out of a political process. The decision of the Governor to cancel all but one major urban expressway planned inside Route 128 was the end of a ten year political battle. The decision to develop the cleared land was a result, in part, of the efforts of the Southwest Corridor Land Development Coalition. The decision to construct replacement mass transit service to Roxbury was, in part, a result of the efforts of the

- ix -

SWCLDC and of Circle. Further progress of policy on economic development will depend on further successful outcomes of the politics of economic development.

In this work we shall concentrate our focus solely on the economics of urban development in Roxbury.

### TABLE OF CONTENTS

| Acknowledgements  | Page<br>i |
|---|-----------|
| Abstract  | iii       |
| Background History - The Urban Transportation Issue in<br>Roxbury   | iv        |
| Volume I: A Market Feasibility Analysis   |           |
| Chapter I: An Economic Development Program for the Roxbury<br>Community: A Joint Transportation/ Commercial<br>Development Model  | 1         |
| Part I: The Program   | 3         |
| Circle goals of community economic development;<br>the Circle strategy of economic development  |           |
| Part II: The Theory   | 15        |
| A theory of economic development: SOC-DPA<br>Process  |           |
| Part III: The Technique of Analysis   | 24        |
| The application of project investment analysis<br>for use in the formulation of the Circle deve-<br>lopment program; the impact of the development<br>program on the Roxbury political economy  |           |
| Chapter II: Mass Transportation as a Stimulus to Commercial<br>and Land Development: A Mass Transportation<br>Plan  | 31        |
| Part I: The Theory  | 32        |
| Mass transportation as commercial market deve-<br>lopment; mass transportation as land market<br>development; regional mass transportation as<br>a reinforcement of ghettoes; the potential<br>affect of transportation on commercial deve-<br>lopment in Dudley Square |           |
| Part II: Methodolgy and the Plan  | 52        |
| Methodology: community view of regional mass<br>transit plan; schedule of mass transit construc<br>tion; automobile traffic circulation; parking<br>requirements; pedestrian-bus mall; new bus<br>route; experimental mini-bus service                                  | _         |

| Chapter III: Expanded Commercial Development: A Retail and<br>Wholesale Investment Package  | 80                |
|---|-------------------|
| Part I: The Theory  | 81                |
| The market as an area; the interdependency between<br>housing and commercial development; ghetto commer-<br>cial development in an imperfect market; publicly<br>supported commercial development as subsidy  |                   |
| Part II: The Methodology and the Plan   | 86                |
| Methodology: the present Dudley Square commercial<br>trading area; trade area projections; market seg-<br>mentations; similarity of black and white consump-<br>tion patterns - an income problem; a potential<br>shopping center at a new transportation station;<br>potential wholesale expansion |                   |
| Chapter IV: Joint Land Development: A Preliminary Site<br>Analysis  | 121               |
| Part I: The Theory<br>Land development in the ghetto; the external<br>economics of public investment; joint land deve-<br>lopment as public intervention into the land<br>market  | 122               |
| Part II: The Methodology and the Plan.  | 126               |
| Methodology: land requirements of expanded com-<br>mercial development; prime sites for development;<br>the schedule of land development; new land deve-<br>lopment institution required  |                   |
| Chapter V: Impact of the Proposed Investment Program on<br>the Political Economy of Dudley Square   | <u>1</u> 34       |
| Part I: The Theory  | 135               |
| The inequality of the market in ghetto develop-<br>ment; public intervention in the market to in-<br>stitute equity and to support ghetto develop-<br>ment  |                   |
| Part II: The Impact of the Program  | 137               |
| A: on the retail sector<br>B: on the real property sector   | 137<br>147        |
| Chapter VI: Conclusions to Volume I   | 155               |
| Part I: Intermediate Results of the Application of  | 156               |
| Part II: Intermediate Evaluation of the Circle Strategy<br>Part III: Criticism of the Methodology of the Study<br>Part IV: Next Step of Analysis - Volume II  | 159<br>161<br>168 |

Page

| Appendix I: Market Analysis   | Page 1<br>Al-1 |
|---|----------------|
| Part I: Market Area Characteristics<br>Part II: Market Analysis             |                |
| Appendix II: Dudley Square Business Structure                               | AII-1          |
| Part I: Census of Retail Industry<br>Part II: Census of Non-Retail Industry |                |
| Appendix III: Real Property Structure                                       | AIII-1         |
| Census of Land Ownership  |                |

# VOLUME I:

# A Market Feasibility Analysis

# CHAPTER I:

An Economic Development Program for the Roxbury Community: A Joint Transportation/Commercial Development

<u>Mode</u>

#### Introduction

During the last decade and a half, <u>Roxbury had no major comprehensive</u> <u>economic development programs</u>. The opportunity for structuring an economic development program during this period lay in public investment programs. But they failed to focus on the problems of the ghetto economy, and to organize any economic development programs on sound and simple economic development principles.<sup>5</sup>

The proposed program contained in this work and in work related to it, is an effort to structure such a major economic development program for Roxbury. This formulation defines development goals and instruments based on an analysis of the ghetto economy, applying fundamental economic development principles to its construction, rationalizing the public investment necessary to effect the economic development program recommended.

In this chapter, we shall analyze the goals of economic development and the particular strategy of economic development that are advanced by Circle, Inc. Out of this analysis we shall derive a more explicit set of objectives of community economic development. Useable for explanation of a strategy. This strategy establishes the bounds of the program. Second, we will derive a statement of the development theory underlying the strategy of economic development. This set of principles comprises a more general <u>theory</u>for economic development that seeks to fulfill most,

This historical analysis is not attempted here. Such work is worthwhile and undone. It would make a good student paper.

if not all of the explicit objectives. Note that it represents only one possible model usable in the current political economy of Roxbury.

Next we will present the "how" of formulating an explicit development program based on the theory of economic development. In short, we will present the essential tools of analysis. The sum of these tools is called <u>project investment analysis</u>. In addition, we reflect on the known precedence of use of the techniques of project investment analysis in programs of economic development in other ghettoes in the U.S. We conclude with a consideration of the impact of the investment project on the political economy of the Roxbury ghetto.

#### PART I: The Program

The Goals of Circle, Inc.

The creator and first Director of Circle, Inc. stated four CDC goals of economic development. The immediate goals are:

- (1) "Generation of surplus earnings for viability, reinvestment and distribution to community foundations,
- (2) Provision of a vehicle for community comprehensive economic development planning and research,
- (3) Delivery of high quality and relevant services to the community particularly those of an economic development and educational nature".

The ultimate goal of the Circle program is:

(4) "The creation of a sub-economy in the target community which achieves the capacity to realize growth on a selfsustaining basis".

This statement remains the only formal statement of Circle, Inc. goals (short of OEO refunding proposals). It is now four years old, and two administrations past. We neither fault the present administration for its lack of a new statement, nor the first administration for a statement of the prevailing wisdom of that time. That wisdom viewed the CDC as a profitable economic enterprise which returned earnings from ventures invested in by the CDC. These earnings, in turn, were distributed back to ghetto residents through social services. Professor Johnson adds his own twist by also creating a consulting subsidiary to conduct further research in ghetto economic development and to provide further funds for distribution through consultant

<sup>6</sup> Johnson, Willard - The Circle Complex Annual Report of 1970 Circle, Inc., Boston, 1970

awards.

Unfortunately, under the first administration no new ventures were started. While the service component secured funding from outside sources, the consulting firm earned funds but researched projects of usually secondary importance to ghetto development. The consultant firm has since folded. Not until the present administration were new ventures started.

The chief failing of the original Circle goals was not in its implementation but in its lack of understanding of what the content of economic development is. To rectify this failing, five objectives are proposed which we suggest are central to all ghetto economic development.

#### The Objectives of Community Economic Development

It is crucial to establish the objectives of economic development in order to fromulate and to evaluate a development program. For a low income community, there are five primary objectives of its economic development.

# Objective (1): the establishment of community institutions for the economic development, the political empowerment and the social evolvement of the ghetto community.

The aim of creating community institutions is to provide a vehicle for local control over the allocation and use of resources to meet local needs. Institutions are required to sustain the development effort over some 10-20 years, long enough to see results. The goals of these institutions are of three types. Primary is the economic development of the community. This, in turn, cannot occur without increased political power with both government and business over their resources. Political development, in turn, cannot mature until the members of a community get themselves together to say that they want a community, to marshall its latent resources, and to define their institutions. This we call social development.

- 4 -

#### Objective (2): the generation and redistribution of income for and to community residents through community-based economic activity.

The first aim of the support of enterprises by community institutions is the generation of new income to community residents. The distribution of this income would be profits through cash dividends of a CDC investor, or wages paid by the enterprise to community residents, or lower prices of commodities or service of the enterprise. The aim of influencing public programs is the redistribution of income of government taxes to community residents. The distribution of this income would be increased and improved government services. Objective (3): the development and redistribution of capital and of ownership of community-based economic activity

for and to community residents.

The primary control over private enterprises may be, in the long run, only possible through community ownership of private enterprises within its boundaries. Ultimately, that ownership should be in the hands of the residents of the community.

But ghettoes are capital poor as well as income poor. Therefore, capital must be developed, both through the investment in local enterprises, and the pressured investment of government capital into the ghetto community.

```
Objective (4): the development of human capital through the development
of internal labor markets of skills training, entre-
preneurial development and management responsibility
of community residents in community economic and
political activity,
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The capacity to manage community institutions and to run enterprises is a crucial lack in ghettoes. The learned aptitude to work at skilled jobs is also lacking. The ability to manage the political and economic negotiation to <u>form</u> community institutions is <u>most</u> lacking. Only through the creation of internal ladders for skill development, entrepreneurial experiment and increasing managerial responsibility in the building and operating of community institutions can supply this needed management/labor development occur.

#### Objective (5): the development of ownership of land and control over its use within (and adjacent to) the boundaries of the ghetto community.

The hard work of establishing community institutions, starting new ventures, creating new jobs, and developing management skills would be undercut severely if the ghetto lost its land.

Migration of the ghetto within a city is a pattern of last century. It follows the declining housing stock and is scattered out of the demolishing of a deteriorated housing stock.

Therefore, to control land in the long-run, the ghetto community must own it. To support economic development, it must control the land use of the community.

Finally, community institutions must recognize the potential asset of the ownership of inner city land particularly where the housing structures are townhouses or brownstones.

The sum aim of these economic objectives is greater self-help and self-determination of the ghetto community within its politicaleconomic subsystem. The emphasis is on greater self-determination within the constraints of the wider government and private economy. For community economic development is ultimately limited by the greater powers outside the ghetto.

#### The Circle Strategy of Economic Development

Under the new administration, Circle, Inc. has developed a strategy for economic development. This strategy has five elements:

- (1)transit capital construction of a link between two nodes, supplemented by service development to and from the nodes;
- (2) large scale commercial development of the ghetto economy at each transit node of major size;
- (3)small scale spine development along the transit link between the major transit nodes;
- (4) land banking around the major transit nodes; and,
- (5) development banking to finance the ventures at the nodes.

We shall review each strategy element with the reasoning that led to the formulation of each stategy element.

(1) <u>Transit Construction</u>: Transit construction is a perfect stimulus for commercial activity. Major commercial centers can form at highly travelled transit stations. Neighborhood commercial centers tend to be attracted to the stations in between the two major commercial centers or poles. Housing density may tend to increase also near these transit stations.

The selection of the mode of mass transportation included consideration of three possible modes: subways, trolleys and buses. The criteria of selection were based on size of capital invested, area coverage, and minimum disruption to the local neighborhood.

First, let us consider <u>capital</u> investment as a criterion. Subways require the greatest capital of the three modes. Subways, like trolleys, would likely operate with bus feeders. A decison on mainly buses, however, would exclude the possible investment in subways and in trolleys. Therefore, buses were rejected as the main mode. Second, let us consider <u>service</u> as a criterion. Trolleys tend to cover a greater area having more stops per mile than subways. But buses could compensate for

- 7 -

loss in stops of subways. Therefore, subways (with buses) and trolleys (with buses) are equal in area coverage. Subways have a higher volume capacity than trolleys have. But the edge in volume capacity means less since shopping trips are under 10% of the total patronage. Therefore, subways and trolleys are about equal in service provided. Third, let us consider <u>disruption</u> as a criterion. Subways would take about 1½ to 2 times as long to construct as trolleys. Therefore, disruption during construction is greater for subways than for trolleys. Once constructed, however, trolleys would interfere with auto and pedestrian traffic; subways would not. Since the total time of expected use of either facility is greater than the longest expected time of construction of one, the mode with the lesser amount of disruption during operation has the greater value. On this ground, subways have less disruption.

Therefore, on the grounds of greater capital invested, and lesser disruption over the use of the facility, the mode selected was: <u>subway</u>. (2) <u>Commercial Development at the Major Nodes</u>: The choice of what sector of the Roxbury economy to invest in seems determined by the mode of transportation selected. That is, use of an urban expressway spur is most important for a manufacturing plant in a mini-industrial park. The spur provides a means for shipment of raw materials and finished goods by truck. The use of mass transit is most important for a retail business in a commercial center. The transit provides a means for shoppers to travel to and to carry purchases back from the retail businesses shopped at.

Circle seems to have selected developing commercial enterprise somewhat by default. The Boston Model Cities CDC took initiative to manage industrial development in the cleared land near the Southeast Expressway (Route 3). Circle was left to "choose" commercial develop-

- 8 -

ment at Dudley. Therefore, <u>commercial development</u> was selected as the sector for investment.

The choice of what locations to choose for development was constrained by the limited amount of venture capital available for development. Therefore, the site of existing commercial centers constituted the set of alternatives. The strategy was to take the limited capital funds and invest in an expanded commercial center, making the most out of few funds. A transit station would be located in the commercial center.

The criteria for selection were size<sup>7</sup>, and central location in the Black community. The two community scale centers are Dudley Square and Uphams Corner. A third site has three neighborhood-scale centers at Grove Hall, one on Blue Hill Avenue and two on Columbia Road. Dudley Square is the transportation center of Roxbury. It has a transit station now and should have a new one. Grove Hall, while smaller than Uphams Corner, is more central in Roxbury. Therefore, the two commercial centers chosen were <u>Dudley Square</u> and <u>Grove</u> Hall.

Circle also won the site somewhat by default. At present, the Masons and the Black Muslims are developing projects at Grove Hall. No organization is yet focusing on Dudley Square seriously. Therefore, Circle "won" Dudley Square.

- 9 -

<sup>7</sup> Hoyt, Homer "Classification and Significant Characteristics of Shopping Centers" in Mayer, Harold and Kohn, Clyde, ed. <u>Readings</u> in Urban Geography, U. of Chicago Press, 1969 Size is measured by scales: regional 250,000-1 million sq. ft. 35-100 acres community 100-400,000 sq. ft. 15-40 acres neighborhood 10-100,000 sq. ft. 5-20 acres

(3) Spine Development Along the Transit Link: Smaller, neighborhood scale retail development can occur at smaller stations between Grove Hall and Dudley Square. Therefore, the location of the transit link can tend to focus commercial development in particular neighborhoods of Roxbury. This is called spine development.

The selection of the route of the transit link was based on the criteria of high traffic volume, the level of development of the neighborhoods adjacent to the links, and the central location in Roxbury. Four streets had daily volumes of over 4,000 per direction or 8,000 vehicles per day in both directions. These are Columbus Avenue to Seaver Street, Warren Street, Blue Hill Avenue, and Columbia Road to Dudley Street. Two of these streets are on the border of Roxbury Columbus Avenue to Seaver Street and Columbia Road to Dudley Street. Therefore, the choice was reduced to Warren Street and Blue Hill Ave-Warren Street, however, is on the east border of the Washington nue. Park urban renewal project area. Consequently, it is now relatively well developed in housing, commercial and arterial street development. Blue Hill Avenue, the location of many of Roxbury's community organizations, is relatively undeveloped. Therefore, Circle chose Blue Hill Avenue as its transit link and spine for development.

(4) Land Bank Around the Major Transit Nodes: Land surrounding a new transit station is a prime opportunity for land development. An expanded customer market provides a chance for new retail enterpriese. A rise in potential business income increases the value of land around the station, which in turn provides a chance for real estate operators. These constitute potential secondary benefits(that is benefits aside from increased transportation service).

- 10 -

Unfortunately, land markets in ghettoes operate to funnel potential increased income flows out of the local community. Absentee landlords, who dominate land ownership in a ghetto, force tneant businesses to leave, and sell to non-community owned businesses, or keep the local tenant business and reaise rents. Speculation and a rise of rents is high. And new ownership is often non-community based.

To counter the land market and thereby retain benefits in the local community, a government-sponsored or controlled land-holding instrument is needed to intervene in the market. One such mechanism is a <u>land bank</u>. A land bank is a public or quasi-public instrument of land holding which "banks" land lots in a changing market. The land bank earns its operating funds from profits it makes in the buying and selling of land. It undercuts the speculator by asking for a low profit margin. It undercuts non-community businessmen by selling to local entrepreneurs.<sup>8</sup> One site for a land bank is the Dudley Square commercial area.

The SWCLDC is currently considering the use of another mechanism called a <u>land trust</u>, a public land-holding instrument that continues to "own" its land. The use of land is determined by residents of the community whose land is held "in trust". Onessite for the land trust would be the cleared land. This site could also be used for a joint development project with a transit station.

(5) <u>Development Bank</u>: Finance must be provided for new ventures. This development finance cannot be secured from the existing private capital market in and outside of the ghetto economy, given the current letal constraints and policies of the financial institutions.

- 11 -

<sup>8</sup> Faux, Geoffrey "Reclaiming America" in Working Papers for a New Society Vol. I, No. 2, Sept. 1973; Cambridge Policy Studies Institute, Inc. Cambridge, Ma.

The crucial venture capital is lacking from private investors in the ghetto. Commercial banks are prohibited from investment of its saving into venture capital funds. These same banks choose not, on the whole, to supply commercial loans at interest rates profitable to new enterprises. Unfortunately, defaults and bankruptcies are high.

To provide this necessary finance, a new public institution is needed, called a <u>development banking system</u>. This system would provide venture capital, guarantee commercial loans, and perform other vital financial functions.

A development banking system has most or all of six primary functions:

- (1) mobilization of capital it seeks to mobilize local and "foreign", public and private capital where the private capital market does not now go.
- (2) <u>investment of capital</u> it makes the decision to invest in what kind of economic projects and in which particular ventures. As an investor of capital, it must consider what investment criteria to use to decide on projects to be invested in.
- (3) <u>ownership and management of projects</u> it may choose to <u>own and/or manage particular projects in which it invests.</u>
- (4) promotion of projects it seeks to promote viable and worthy projects for investment. In this way, the development bank seeks to fill the shortage good, well thought, well-organized projects.
- (5) <u>advisement on projects it seeks to advise both those projects it promotes</u>, and those projects it invests in. This advice is in the business and other economic aspects of management and role in economic development.
- (6) <u>establishment of new institutions</u> it seeks to build new institutions of development in its client areas.<sup>9</sup>

The SWCLDC, together with the Massachusetts Legislative Black Caucus, is proposing the creation of a state development bank operating at the Boston regional level, to supply the \$3-500 million needed to develop the cleared land. If this development bank were formed, it could provide the necessary finance for the commercial development project.<sup>10</sup>

We shall call this strategy, the mass transportation-commercial development strategy of community economic development. (see map I.1)

These five strategy elements contain the specifics of a more general theory of economic development. Let us step back from the strategy a moment to make clearer what principles of economic development underline the Circle strategy. We shall return back to the strategy after this exposition.

<sup>9</sup> Talk by Professor J. Daniel Hyhart, MIT, at Harvard Graduate School of Design, October 15, 1974

<sup>10</sup> Daniels, Belden - "An Act Creating the Mass Business and Community Development Corporation" Draft,Office of Representative Mel King, September, 1974



PART II: The Theory

A. Theory of Economic Development:SOC-DPA Process

It is crucial to identify the set of principles that govern a development program in order to understand how that program will work to fulfill its objectives. We can, then, formulate a program, know how it must work to succeed, and make it work better.

We propose five principles of economic development which relate directly to the five strategy elements of Circle's programs. These are:

#### Principle I: That social overhead capital (SOC) should be invested in projects that will induce directly productive activity (DPA) investment.

Social overhead capital is defined as"these basic services without which primary, secondary and tertiary productive activities cannot function".

These services follow four conditions:

- "1. The services...facilitate, or are in some sense basic to, the carrying on of a great variety of economic activities.
- 2. The services are provided...by public agencies or by private agencies subject to public control; they are provided free of charge or at rates regulated by public agencies.
- 3. The services cannot be imported.
- 4. the investment needed to provide the services is characterized by "lumpiness" (technical indivisibilities) as well as by a high capital out put ratio (provided the output is at all measurable)."

Clearly, both urban expresswasy and mass transit facilities satisfy the conditions of this definition for SOC. The crucial importance of investment in SOC is that it "induces" DPA investment to follow.

Joint development is the most direct "inducement mechanism". Joint development is the combination of SOC and DPA into one distinct investment project. There must be at least one DPA which would not locate in the project area without the SOC. Inversely, no SOC investment might occur unless a potential SOC-dependent DPA considers location in the project area. An example of joint development is the construction of an expressway spur to the site of a new industrial park.

A special case of joint development is the added subsidization of direct costs of contruction and/or operation of the DPA. An example of this pecial case is the construction of a mass transit station which houses a retail complex. This is a form of transit node development.

SOC investment may also represent future DPA investment in addition to the immediate DPA investment represented by joint development. This is particularly true if added complementary SOC and/or complementary DPA can take place. An example of this is the <u>spine development</u> <u>along the new transit line between community commercial centers</u>. Another example is further commercial development in conjunction with an extension of the new transit line.

Directly productive activities are defined as those economic organizations which produce goods and services for the consumption of or for the investment in the economy. Modifying this definition to fit the economy of ghettoes, DPA's are eco-nomic organizations which either produces or distributed goods and services for personal or institutional consumption or for investment in land and venture development.

Six distinct sectors of DPA in the ghetto are:

- (a) light consumption industry,
- (b) wholesale,
- (c) retail,
- (d) real estate,
- (e) finance, and
- (f) health, education and welfare services.

Commercial activities comprise (b) and (c), land banks and trusts are in (d), development banks are in (e).

- 16 -

Hirschman, Albert O., <u>The Strategy of Economic Development</u>, Chapter 5 Yale University Press, New Haven Conn., 1973

#### Principle II: Investment must capture consumer expenditures for reinvestment or distribution back into the ghetto economy.

The major source of income that is most easily captured by ghetto DPA's (though not the only source) is that of the earnings of labor and government income transfers that is spent or "disposed of" on consumption. The major categories of expenditure of disposable income are on retail goods, housing, services, gambling and savings. The greatest consumer expenditure by far is on retail expenditures (about 54 % of the ghetto family budget).

Note that the capture of disposable income is potential gross corporate income for DPA's. Clearly this is the target of investment in DPA's of the commercial sector.

Other strategies focus mainly on housing (low and moderate housing development), services (for example, neighborhood health centers), and gambling (for example, state lotteries), these, however, are not considered in this theory.

#### Principle III . DPA investment must be aimed at import substitution and at backward linkage.

An unfinished study of the income flows of Roxbury demonstrates that income "leaks out" of the community. Most of the disposable income is spent in businesses owned by non-community residents. Further most of the goods and services are distributed by businesses outside the ghetto. And finally, most of the goods are produced by manufacturing plants located and owned outside the ghetto. The magnitude of this <u>leakage</u> is about 2.6% of total income and 5 % of retail expenditures.

DPA investment should be aimed at capturing this lost income (rather than in competing for already captured personal income). Such a strategy is called <u>import substitution</u>. Import substitution is the <sup>12</sup> Aylward, Ann, et.al., "A Comparison of the Economic Structure of Two Neighborhoods-An Inflow=Outflow Model for Charlestown and Rpxbury"

MIT Fall 1973

investment in DPA's that will produce (distribute) goods and services that can be substituted for goods and services now imported into the ghetto. Clearly the choice of which goods and services to produce will depend on what industries the ghetto and the enterprise have a "comparative advantage" to "foreign industries" located outside the ghetto.

The expanding market for goods and services distributed to the ghetto residents induces further investment into DPA's that provide inputs into the production of thsoe goods and services. This effect is called <u>backward linkage</u>. That is, this input-provision, a derived demand, or backward linkage effects means that every non primary economic activity will induce attempts to supply through ghetto production the inputs needed in that ectivity. In the case of commercial development, backward linkage is from retail stores to wholesale stores, and from wholesale stores into manufacturing.<sup>13</sup>

Note that the potential to control theretail business sector increases as the ghetto gains control of the linked wholesale sector. Similarly, as linkage develops, this public version of vertical integration of the ghetto economy increases.

The sum effect of these two strategies is to increase the economic control of the ghetto economic organizations that implement these strategies.

 Principle IV:
 Both private and public investment and public subsidy must be tied to place.

Neither income nor capital can be generated in a ghetto without public <u>subsidy</u>. Market ventures tend to produce businesses with low corporate net income, low personal wages, and low value consumer goods in ghettoes. Market capital tends to produce a low rate of return on capital that is invested in the ghetto.

- 18 -

See Schaeffer, Richard Income Flows in Urban Poverty Areas, Lexington Books, D.C. Heath & Co., 1973 13 Hirschman, op.cit., Chapter 6

Thus, the income of ghetto residents must be subsidized to reach above poverty level income. The income of ghetto businesses requires subsidy to yield a better than breakeven profit rate that is closer to the market profit rate outside the ghetto. And capital must be subsidized in order to start new ventures (or expand existing ones), and to continue that finance.

Secondly, this public subsidy must be tied to <u>place</u>. That is, income poverty and capital poverty are, in this nation, bound to land and space. A ghetto is a distinct geographical area. Residents in it tend to be poor; businesses within it tend to be poor; and capital ownership within it tends to be poor. Therefore, subsidy must be tied to residence of person and business in a ghetto. Only in this manner will <u>ghettoes</u> be developed.

#### Principle V: First, land development, and second, capital formation, are used as a trigger for a sequence of investment.

Land development of a selected site in a ghetto is the prime trigger for investment. Land development is the organization of a set of ventures and government services for a planned land use of a site.

First, that land use must have a major impact on the community, (for example, the construction of the only mass transit facility). Second, the process of development of the land requires a political dynamics to secure public finance. Third, land development induces the discovering, promotion and packaging of new ventures.

A land bank or a land trust are community institutions which can stimulate land development.

Land formation should be linked to retail development, possibly back to housing development.
The process of <u>capital formation</u> is an inducement to further investment. That very process of forming capital is a trigger for further development of new ventures. Second, it can encourage public capital to be invested. And third, it can attract private capital to combine with venture and public capital.<sup>14</sup>

Capital formation should be linked from retail development backward to wholesale. A development bank is an institution that continues the capital formation process.

We shall call this the SOC-DPA Process.

## The Theory of Economic Development As A Means to Fulfill the Objectives of Community Economic Development.

We can now review the theory of economic development proposed above in terms of its capacity to fulfill the objectives of development (if the theory is correct and if a program can be formulated from the theory that can be implemented). Each objective is covered by at least one of the principles.

Let us examine the relationship starting from each objective. Community Institutions

Two types of community institutions created by the theory are: development institutions, and business structures.

The development institutions are the land development institution, for example, the land bank; and the capital development institution, for example, the development bank. (Principle 5)

The business structures are the industries that are located in the ghetto and that are integrated vertically. We have called this import substitution and backward linkage (Principle 3).

### Income Distribution

These are two sources of income to be distributed:

public (SOC and subsidy) and private (DPA).

The SOC investment is an income transfer of tax revenues if there are limited revenues and an unequal allocation of SOC funds (Principle 1). The income subsidy is an income transfer to poorer residents. This subsidy would be indirect. That is, the subsidy would go first to ventures, then the decision would be up to the ventures to pass the income along to residents and to determine how much and to how many. At one extreme, the venture might take all of the subsidy out in profit. If the venture is locally owned, the distribution is large, but to a few people. At the other extreme, the subsidy might be passed on to lower prices of goods and services sold. Then the distribution is small but to many people (Principle 3).

The DPA will generate income through profits disbursed to owners, through wages paid to workers, and through prices of goods and services to customers (Principle 1).

### Capital Distribution

100

Capital distribution derives from the capital formation of the capital development institutions. Capital is distributed through equity grants for investment and through the increased ownership of ventures (Principle 5).

Capital subsidy can increase capital formation by attracting new private sources. Therefore, the potential of capital distribution increases (Principle 4).

Note that the decision of distribution depends on the capital development institutions.

### Human Capital Development

The two types of human capital development are labor and management.

Labor skills and career ladders can be developed in the DPA, although we did not discuss this. Part of the advisory function of development institutions is to supervise this labor development (Principle 1).

Management skills can be developed in the DPA, encouraged by the development institutions. They are clearly lacking at present in land development and development finance (Principle 5).

### Land Ownership & Control

Land ownership and control will increase through two ways: land development and subsidy tied to land.

Land development will increase control over the use of land through the success of control over its development - primarily through intensification of present use. Secondly, through prevention of the transition to an unwanted use; and thirdly, through the acceleration of the trend to a new use. Land ownership by community residents or institutions can increase through the promotion and selection of community residents and/or institutions as the owners of the land upon completion of development (Principle 5).

Subsidy tied to land can increase the potential for land development, and therefore, of ownership and control (Principle 3). Approach To "Proving" This Theory

There are three choices to proving this theory of economic development. First, we could develop a mathematical model of the theory. The inputs of the model would be the essential economic facts or parameters of the ghetto economy. The model itself would develop "production functions" based on each of the five principles. The output of the model would be measured objectives of community economic development. The goal of the model would be growth along the output objectives. Proof, in this case, would be the demonstration that all the production functions-principles acting together would achieve growth along the output-objectives. This modelling is not attempted.

Second, we could develop a statistical simulation analysis of ghetto economic development. The data used would be historical and current economic data of a sample of major urban ghettos. The experience analyzed would be of those experiments and programs of parts of the economic development model which have succeeded. Use of a statistical technique, "regression analysis" would seek to isolate the impact of each development program element and the impact of a simulated development program containing all the elements. The result of this simulation would be the impact of the program on fulfilling the objectives of community economic development. "Proof", in this case, would be the demonstration of positive impacts by the simulated program. This statistical sumulation is not attempted here.

As a third choice, we could formulate a development program based on the theory. Program elements would be derived from each principle of the theory. The program would be analyzed for use in one ghetto. "Proof" in this case would be the demonstration of net economic benefits from one program. In addition, we must demonstrate that this program is feasible in the given ghetto political economy. This last demonstration is what is attempted here.

Let us now turn to the techniques of analysis for use in the formulation of our program.

- 23 -

### PART III: The Techniques of Analysis

The Application of Project Investment Analysis

The term "project investment analysis" in the context of its application to community economic development means the set of methods used to present the choice between competing uses of resources in a logical and comprehensive manner. The use of the methods aid in both the formulation and evaluation of the comparative investment choices. The result of the analysis is a decision on what project to choose.

There are three major methods of analysis: (1) market analysis; (2) financial analysis; and (3)cost benefit analysis.

Market analysis is a study of a market for a new project of a particular industry to locate in a given area. A market study defines a geographic trading area, then analyzes the total disposable income in the particular industry (here, retail business) of residents living in that area. This is the total potential The consumer behavior of residents of the particular market. market segment of the particular income is particularly crucial to analyze. A market may objectively exist, but because of behavior, consumers chose not to shop in that area or business. Competition decreases the potential market share of the prospective Finally, transportation access must be studied in business. order for potential customers to get to and from the potential site of the new business. The result of a market analysis will demonstrate market feasibility ( or lack of it) and a potential site of the identified investment package of projects.<sup>15</sup>

<sup>15 -</sup> Smith, Paul E.-"Prescription For A Successful Shopping Center" in Philip David Urban Land Development - Richard D. Irwin, Inc. - Homewood, Ill. 1970

<u>Financial analysis</u> is a study that identifies the money profit from a project accruing to the project-operating entity. This analysis must estimate the return on the investment of the <u>cash</u> <u>flow</u> in the project, and compare the returns to those of competing projects. To do this, the analysis will estimate construction costs, operating costs, and gross income to derive the financial requirements of the project. Crucial trade-offs of <u>equity</u> versus <u>debt</u> finance, and of profit versus operating cost of the project are derived. Analysis can further examine the subsidy necessary to make the project commercially feasible. The result of the financial analysis will demonstrate the <u>financial feasibility</u> (or lack of it) and a finance plan of the new projects of the package.<sup>16</sup>

<u>Cost/benefit analysis</u> is a study that identifies the social profit of the project that benefits the fundamental objectives of ghetto economic development. Cost/benefit analysis assesses the benefits and costs of a project and reduces them to a common denominator. A set of social accounting or <u>shadow prices</u> are used to adjust market prices to include account of non-financial economic costs and benefits. These shadow prices are used in the financial analysis to derive the social profit. This rate is compared to that of other projects. If the social profit is high, the project is accepted; if the social profit is low, the project is rejected. The result of the cost/benefit analysis will determine the <u>net economic benefit (or cost)</u> of a project. <sup>17</sup> The first two methods are commercial analyses. They operate

well in market economies like the Central Business District or

- 25 -

<sup>16 -</sup> Smith, Paul op.cit.

<sup>17 -</sup> Van der Tak, H.G. and L. Squire Economic Analysis of Projects June, 1973

the suburbs. They are insufficient methods for use in the ghetto. Commercial enterprises require subsidy to operate in the ghetto. Subsidy requires the welfare justification of the expenditure of public funds. This is the economic amalysis. To put this another way, commercial analysis are fine to aid the allocation of scarce private resources; but economic analysis are essential to determine the allocation of scarce public resources.

Unfortunately, CDC's are forced to invest in profitable (i.e., above break-even on costs) ventures, therefore, the most logical local institution that should use cost/benefit analysis uses only commercial analysis to determine project investment. If the two methods are used strictly, the power of cost/benefit analysis is that it will accept projects that commercial analysis reject, and reject projects which commercial analysis accepts. Under the current institutional constraints (for example, of OEO) then, project investment analysis must compromise and use both set of methods. We shall use this to an advantage; we can focus on a key trade-off by using both: the trade-off of profits versus other economic benefits in a project investment.

Up to now, we have talked about the use of these methods for analysis of projects. Now, let us examine the use of these methods for the analysis of new institutions. As we have discussed, there are three new institutions; a development bank, a land trust cr bank, and a backward linked economy (possibly organized by a holding company).

The development bank has received the greatest analytic attention. The chief financial analysis is a study of the development banking system proposed under the Community Self Determination

- 26 -

Act of 1968. This study estimated financial projections of the primary development bank under varying assumptions. The assumptions relied on estimates of size of equity, loans, etc. of the sponsoring agency, the Bureau of the Budget and OEO. This study was a success.<sup>18</sup> The only economic analysis is a study of the same system. This study simulated the venture and employment of local CDC's financed by the primary bank, the study did not rely on the variations of the financial analysis. Further, the benefits and costs estimated were limited. This study was a limited success.<sup>19</sup> No work, to the author's knowledge, has analyzed a sub-national development bank.

The land bank has received a great deal of literary attention. But, neither commercial analysis nor cost/benefit analysis have been made, again to the author's knowledge, on either a national or a sub-national level.

The backward linked economy suffers from its lack of sex appeal as an institution in the community economic development movement. Yet it is important as one of the operational goals of the work of the development institutions. The only evidence of a commercial and a financial analysis exists at the ghetto level - in a development project of the Harlem Commonwealth Council.<sup>20</sup>

- 18 Nyhart, J. Daniel "Urban Development Banking in the United States-An Initial Feasibility Study Based on Simulated Financial Statement Projections" MIT, August, 1969
- 19 Edel, Matthew "A Simulation of Some Possible Outcomes of the Proposed CSDA" Lab for Environmental Studies MIT April, 1969
- 20 -Vietorisz, Thomas and Bennett Harrison, <u>The Economic Develop-</u> ment of Harlem, Praeger, 1970

- 27 -

Certainly, the record of the use of the combination of these techniques is poor. <u>They should become standard tools of analysis in</u> which cost/benefit analysis dominates for CDC and CDC-related projects.

Now let us turn to the use of these techniques in the present work. Given the almost predominant reliance on market analysis by Circle, Inc., we sall use a comparative approach to demonstrate the power of these techniques. In volume I, we will make a conventional market analysis to define an investment package and extended to a general transportation plan and initial site analysis. The analysis is expanded to identify potential linkages and to evaluate non-profit benefits. Power relations are given. <u>No investment decision is recommended</u>. In volume II, we will make a-cost/benefit analysis. The investment package will be revised, using the market analysis as a contribution, but expanding the linkage analysis and the power analysis. Finally, a financial analysis will be made to cost out the different investment packages. Then the commercial and the economic analyses will be compared. A final investment recommendation will be made.

### The Impact of theCircle Development Program on the local Political Economy

Just as we provided an understanding of the interal workings of this theory of economic development, we must also understand the external workings of the focal political economy that operate to inhibit ghetto economic development.

This present thesis focuses on the limited analysis of <u>the</u> <u>impact of the development program on the local political economy</u>. This study has three elements that involve the local political economy. First, the politics of implementation require some dealings with the locally dominant institutions. These dealings involve the conflict over economic power in order to gain greater local

- 28 -

community control over development. Establishment of the development program requires the mobilization of unused or untapped economic resources in order to increase local economic power. The conflict involves competition over scarce public resources and their allocation. In short, this study element must examine the "economic politics" of a development program.

Second, the development program makes (or should make if the economic politics are successful for the local ghetto) an intermediate short-run impact on the structure of the local market economy -through the start of new ventures in the project. At present, the ghetto economy is a dualistic economy. That is, relatively few businesses control the more profitable segments of a given sector: this is called "the primary segment". Relatively many businesses compete for the less profitable segments of that sector: this is called the "secondary segment". Similarly, relatively few banks control the more profitable private capital market (enough to choose not to invest in the ghetto economy). Those less capital-rich institutions and individuals of the ghetto are forced to invest in less profitable capital markets in the ghetto. The establishment of new ventures that are community-owned and/or controlled as well as supported by government power and finance introduce new forces that can compete successfully with the upper or primary segment of the dualistic market.

Finally, the development program can make a long-run change on the institutional framework of the local political economy - through the establishment of community development and directly productive institutions. At present, the ghetto economy lacks an institutional basis for development (there are only three operating at present: Circle, Lower Roxbury Community Corporation, and Roxbury Action Program). Only through the establishment of these institutions will there be any continued economic development.

- 29 -

Volume I of this work will focus on the impact on the dualistic structure<sup>1</sup>an the formation of the backward integrated institution. Summary

In this chapter, economic development as defined by Circle, Inc. was analyzed.

Through an examination of one development institution (that of Circle, Inc., a CDC), we derived a general theory of community economic development, called the <u>SOC-DPA Process</u>. Further, we selected the necessary <u>techniques of project analysis</u> to use to apply this theory in the formulation of a development program.

The application of the theory will generate a specific economic development program for Circle, Inc.: <u>commercial development at a</u> <u>transit station of a new transit line</u>. Further, the application will generate specific development program elements that will be evaluated based on the goals of community economic development derived from our analysis of Circle, Inc. Moreover, the development program will be evaluated on its impact on the <u>local political economy</u>, That is, on its capacity to generate further development in the fulfillment of these goals.

<sup>&</sup>lt;sup>21</sup> Fusfeld, Daniel R., <u>The Basic Economics of the Urban Racial</u> Crisis, Chap. 4,7; Holt, <u>Rinehard & Winston</u>, Inc. 1973

### CHAPTER II:

### Mass Transportation as a Stimulus to Commercial

and Land Development: A Mass Transportation Plan

The Application of Principle I:

" That social overhead capital (SOC) should be invested in projects that will induce directly productive activity (DPA) investment".

### Introduction

In this chapter, we shall explore the application of Principle I. That is, we shall examine how the use of SOC, in this case, mass transportation, can be used to induce DPA, in this case, commercial and land development. To do this, we shall take three steps. First, we will enumerate the means by which transportation can develop markets in the commercial and land sectors. Second, we will examine how the choice of means will affect the fulfillment of our basic objectives of community economic development in the present Dudley Square transportation/commercial complex. Finally, we will derive a transportation plan for each mode in Dudley Square based on our consideration of means to achiever our ends.

### PART I: The Theory

### Mass Transportation as Commercial Market Development

In the context of commercial development, transportation is the linkage of the market of buyers to the stores of goods. But our treatment of transportation here turns the standard transportation systems analysis on its side. In the latter, the transportation system is an equilibrium of transportation flows in the "market" of the supply of activities (here retail business), and the demand of users for those activities. (here the buyers). That is, the market is given and the transportation system follows. In our view, the transportation system can be used to define the market demand for this activity, and therefore the supply of the activity required to meet demand. The market is not equilibrated, but is restructured.

Let us consider this new view in several steps. The first point

- 32 -

That is, the provision of new or improved mass transportation can expand our potential market of buyers by expanding the trading area.

Transportation can discriminate different segments of the market. First, let us consider the choice of areas. The potential trading area is a collection of neighborhoods, each with their own consumer characteristics. Some may be black, some white, some elderly, and some young. Some less poor than others. Since a given transportation route can service only a limited number of neighborhoods, then the choice of neighborhoods will determine whether the potential market is black, white, elderly or young (or some mixture of these segments). That is, <u>the choice of routes of the transportation system</u> <u>will determine (in part) the potential market segments within the</u> trading area.

Second, let us consider the choice of mode. Different segments of the market favor different modes of transportation for shopping. The middle income may favor automobiles, using city streets. The very poor may favor taxis and mass transit. Therefore, the choice of transportation mode will determine (in part) the potential market segments within the trading area that will be attracted to new commercial development.

The total demand for retail goods may increase. Greater transit availability may induce a change in consumer behavior to spend a greater share of his income on a larger consumption basket of retail goods . If, however, total demand remains constant , then the sales of retail goods in a new commercial center (or an expanded one) can increase at the loss to a competing commercial center, due to improved transportation service. If total demand decreases, then the success of the new or expanded commercial center will result in a loss to the general welfare of the community of both commercial centers. If the area receiveing the benefits of an expanded trading area is a ghetto community, and the

- 33 -

area losing is a non-ghetto area, then the effect of this redistribution of market is positive. Therefore, <u>the choice of the</u> <u>central commercial center for the main transportation mode will</u> <u>determine (in part) the community potentially benefiting from the</u> expanded trading area.

The mass transportation system also has an effect on the distribution of benefits to stores within the selected market area. The <u>choice of the route of the transportation system will favor</u> <u>stores located at stops along the route</u> (rather than those in between). This choice of stops is particularly crucial for a market area that is fragmented in "design" and where some stores are near a major transportation stop, and others are far away. This is the case of Dudley Square.

Second, the choice of modes of transportation tend to favor one store over another. This is true in the case where each of two competing stores within a commercial area are close to a different mode. Another case of this is where a store will depend on a mode to reach its clientele (for example, an automobile dealer).

So far we have made clear how a new transportation system can develop a commercial market in a particular commercial area. Also realize that the <u>lack of a sufficient transportation system</u> <u>can be a barrier to commercial development in an area</u>.

### Mass Transportation as Land Market Development

Given the expanded commercial market, there is also a stimulus to the land market. The potential for a more intensive use of land for retail businesses will cause entrepreneurs to bid up the price of land. Similarily, with a higher income of the user of land, rent of land will increase. Clearly, the closer to a transportation node, the higher the rise of land price and rent. Similarily, the greater the transportation flow of potential consumers at the ode, the higher the rise of land price and rent. Therefore, mass transportation can stimulate land development.

The choice of the location of the transportation mode within or outside of the present commercial area will benefit some land owners, and not others. If the location is at an existing concentration of retail businesses, then the benefits will accrue to old land owners. If the location is at an underdeveloped or vacant site, benefits will accrue to landowners who have not received much of the benefits of the location of the existing commercial center.

Further, the choice of a transportation mode will tend to concentrate or to spread the potential land development. Highcapacity transportation, (like mass transit) will concentrate development at its stations. Low-capacity transportation, (like busses) may spread development over its greater number of bus stops.

And <u>location of the route between major modes may tend to</u> <u>concentrate secondary retail development at already developed</u> <u>areas, or spread this development to less developed areas.</u> Note, however, that with a limited amount of commercial development possible, the choice of concentrating development at a transportation mode may limit the amount of secondary or neighborhood development that can be spread.

- 35 -

Similar to commercial development, <u>the lack of transportation</u> <u>facilities may limit land development in an area.</u> This is true in the sense of a lost opportunity.

The physical nature of a transportation mode has a special effect on land development. The <u>location of the transportation</u> <u>system inside a commercial area can act as a physical barrier to</u> <u>commercial movement and land development expansion</u>. Or, the location of the transportation system may stimulate commercial movement and land development. Finally, <u>if the location is</u> <u>at the boundary of the current commercial area, it can expand</u> <u>the potential land for development</u> and spread its effects. Conflicting land use, like housing, can be pushed back to free up more land for commercial development.

### Regional Mass Transportation as a Reinforcement of Ghettoes

Public investment in transportation is viewed above in terms of its positive effect on the ghetto economy. The ghetto economy, however, is a part of the wider regional economy. The effect of transportation on the ghetto relative to the regional economy has a negative effect. For a moment, we will pause to examine retail and land market development in this regional perspective.

The linkage of trade neighborhoods to ghetto commercial centers may have a dual effect. If the transportation system is only local, then the linkage of trade areas can only benefit the ghetto businesses. The transportation system, however, is also a regional service. The trade areas are, then also linked to commercial centers outside the ghetto. If those outside businesses exhibit better economies of scale (more variety of products at higher quality, possibly at lower prices) then consumers will shop outside the ghetto rather than inside. Further, wholesale integration has a greater market potential outside the ghetto.

Fortunately, the regional economics of commercial enterprise have dramatically turned to the favor of ghetto retail development. Mass distribution, now a fact of commercial sectors, permit ghetto retail stores to sell low prices, high variety of goods at high discount. Therefore, the poor will shop at ghetto retail stores (particularly in food stores) at the sacrifice of quality, variety and the cost of credit. Retail stores may make less profit contribution per unit product, and make a profit only at high volume of sales, credit charges and income transfers (through food stamps).

The middle class shopper, however, will travel outside the ghetto to buy variety and quality. Regional transportation for the ghetto, can increase competition between non-community (for example, the American Legion Highway shopping center) and community commercial centers.<sup>22</sup>

Therefore, regional transportation can further segment that ghetto consumer market to limit the poorer shoppers to the poorer retail stores and to draw the middle-class shoppers to the better non-community stores. If, however, public investment in joint development with regional transportation is a subsidy of the poorer income class, this is a more efficient solution.

A similar phenomenon occurs with the impact of the location of transportation facilities on land development. If the transportation facility is solely local, then the effect on land

- 37 -

<sup>22-</sup>Conversation with Stephen Star, Associate Professor of Marketing, Harvard Business School, October 30, 1974

development in the ghetto is likely to be positive. If the facility is regional, then the effect on land development may be dual. If the land economics outside the ghetto are effected adversely, the middle-class may seek to purchase good housing structures in the ghetto (as in the South End), thereby indicating the poor consumers trade base of the ghetto retailers.<sup>23</sup>

Inside the retail centers, absentee landlords may speculate to sell land to non-community businessmen at prices that few <sup>.</sup> equity-poor ghetto businessmen could afford.<sup>24</sup>

Therefore, regional transportation can further push out the poor consumer-resident from the ghetto, and can prevent ghetto business development by the entreprenuer-resident. The resultant land development in the private market can further depress and disrupt the ghetto economy. If, however, the public authority moved to control the land development process, the regionally-induced benefits could be captured to subsidize the poorer ghetto businessman and resident.

In both cases, transportation can induce a subsidy, and can capture benefits, if the allocation process of benefits is government controlled and determined equitably.

Let us now apply this theory of the affect of transportation on commercial development to the Dudley Square trade area. The Potential Affect of Mass Transportation on the Commercial Development of Dudley Sq.: An Inductive Analysis

By the analysis of the transportation pattern of current shopping behavior, we can infer the effect of adding new transportation links on new behavior and therefore on potential commercial development and transportation needs.

- 38 -

<sup>23-</sup>Edel, Matthew "Planning, Market or Warfare?-Recent L and Use conflict in American Cities" in Edeland Rothenberg, ed, <u>Readings</u> in Urban Economics - Macmillan Co, NY 1972

Below, a first cut effort is made. The analysis is in four main steps:first, the potential trading area is segmented by area and income; each mode is segmented by area and income; third, the potentially new transportation system, defined as a set of modes, is derived based on target penetration of each area, each mode selected is used significantly by the poor; and fourth, the potential increase in disposable income for all retail expenditures is derived. The date used is based on special mobility study made by Circle, Inc., for the BTPR. Grocery shopping behavior is used as an indicator of shopping behavior in all retail shopping.

(1) The potential trading area by area and income.

The potential trading area can be divided into six neighborhoods (see Map II.I for a definition of the boundaries based on Census tracts). Ranking the neighborhoods by income (annual average for each household), we have the following:

### TABLE II.I

### Income Distribution of Trading Neighborhoods

|                               | Pe                | ercentage i    | n Income               | Bracket          |                    |                   |
|-------------------------------|-------------------|----------------|------------------------|------------------|--------------------|-------------------|
| Neighborhood                  | Less than \$3,000 | \$3000<br>5999 | \$6000<br>999 <b>9</b> | \$10000<br>14999 | \$15000<br>or more | average<br>income |
| Roxbury-North<br>"Over sample | 37                | 33             | 16                     | 12               | 2                  | \$5 <b>,100</b>   |
| area"-South                   | 25                | 34             | 29                     | 8                | 4                  | 5,700             |
| Roxbury-West<br>"Oversample   | 38                | 17             | 21                     | 18               | 6                  | 6,300             |
| Area"-North                   | 27                | 28             | 26                     | 10               | 9                  | 6,400             |
| Roxbury-South                 | 24                | 29             | 24                     | 18               | 5                  | 6,500             |
| South-End                     | 28                | 18             | 26                     | 15               | 13                 | 7,300             |
| Wider Roxbury                 |                   |                |                        |                  |                    |                   |
| Average                       | 24                | 26             | 27                     | 15               | 8                  | 6.900             |

SOURCE :

Circle Special Mobility Study, BTPR, 1972 - In fact, the five (5) poorest neighborhoods of all Roxbury, border on the Dudley Square commercial area.

24-Wellman, David & Danny Beagle, Al Haber, "Rapid Transit: the Case of BART" and Britain Willard" Metro & Rapid Transit for Suburban Washington" in Gordon, David, ed. Problems in Political Economy An Urban Perspective D.C. Heath & Co., Lexington, MA 1971 Of these six bordering neighborhoods, the percentage of black population is as follows:

### TABLE II.2

| Racial Distrik   | oution of th | e Trading Ne  | ighborhoods i | ln Area               |
|--|--------------|---------------|---------------|-----------------------|
| Neighborhood   | #of blacks   | #of whites    | Total Pop     | <pre>%of blacks</pre> |
| Roxbury North  | 15,438       | 3,122         | 19,000        | 81%                   |
| Over Sample Area So  | 7,422        | 650           | 8,165         | 91%                   |
| Roxbury West   | 4,980        | 13,656        | 19,144        | 26%                   |
| Census tract 808<br>(includes Whittier St<br>Mission Hill Exten-<br>sion Public Housing<br>Projects) | 1,251        | 1,575         | 2,864         | 448                   |
| Census tract 812<br>(includes Bromley<br>Heath Public Housing<br>Projects)                           | 2,927        | 2,071         | 5,048         | 58%                   |
| Over Sample Area No  | 4,948        | 7,863         | 13,110        | 38%                   |
| Census tract 905   | 1,282        | 1,078         | 2,395         | 54%                   |
| Roxbury South  | 17,375       | 2,533         | 20,205        | 86%                   |
| South End  | 3,233        | 11,877        | 19,136        | 17%                   |
| Census tract 912<br>(includes South End<br>Tenants' Council tur                                      | rf) 1,091    | 1,025         | 2,247         | 49%                   |
| SOURCE: Summar   | ry Data of t | the 1970 Cens | us of Populat | tion and              |

Housing, United Communiyt Services, Research Dept., Boston, Ma 1972

Note that the South End is heavily white. Several blocks within Roxbury West are black dominated even though that neighborhood is predominantly white.

Finally, let us look at the estimated retail disposable income of each neighborhood. The estimate is about 60% of total income.

### - 41 -

### TABLE II.3

### Estimated Disposable Income of Each Trading Neighborhood

| Neighborhood              | Population                   | Total Income  | Retail<br>Disposable Income          |
|---------------------------|------------------------------|---|--------------------------------------|
| Roxbury North             | 4,240                        | \$22,484,000  | \$13,490,000                         |
| Over Sample Area So.      | 1,880                        | 11,967,000  | 7,180,000                            |
| Roxbury West              | 3,820                        | 26,215,000  | 15,729,000                           |
| Census Tracts 808-81      | 2 1,730                      | 7,338,828   | 4,403,000                            |
| Over Sample Area No.      | 2,990                        | 18,696,000  | 11,217,000                           |
| Census Tract 905          | 490                          | 2,445,000   | 1,467,000                            |
| Roxbury South             | 4,800                        | 34,349,000  | 20,609,000                           |
| South End                 | 3,200                        | 22,484,000  | 13,490,000                           |
| Census Tract 712          | 2,247                        | 2,444,000   | 1,466,000                            |
| SOURCE: Summary<br>United | Data of the<br>Community Ser | 1970 Census of Populatio<br>rvices, Research Departme | n and Housing<br>nt, Boston, MA 1972 |

Next, we examine the present shopping behavior within each area. The intra-area origin-to-destination grocery shopping shows the following:

|         |                | TABLE II.4        |               |          |    |
|---------|----------------|-------------------|---------------|----------|----|
|         | In             | tra-area Grocery  | Shopping      |          |    |
|         |                | % of Sl           | hopping Done  |          |    |
|         | Area           | Within            | the Area      |          |    |
|         | Roxbury No.    | 30                |               |          |    |
|         | Roxbury W.     | 40                |               |          |    |
|         | Roxbury So.    | 7                 |               |          |    |
|         | Over Sample No | • 28              |               |          |    |
|         | Over Sample Sc | • 52              |               |          |    |
| SOURCE: | Circle Special | Mobility Study, I | BTRP, Uncompi | led, 197 | 2. |

These figures suggest that substantial shopping trips are made within these neighborhoods of Roxbury. The trade area around Uphams Corner (Over Sample South) has the greatest percentage of intra-area grocery trips (over 50%). Dudley Square (Roxbury North) has only 3/10 the percentage of intra-area grocery trips (30%). This suggests that the Dudley Square area is <u>not</u> capturing as much of the consumer market as it should.

Next, let us examine the current shopping behavior to Dudley Square from surrounding areas. Taking the major grocery store in Dudley, Blairs, we have:

### TABLE II.5 Inter-Area Patronage of Dudley Square

Store<br/>BlairsSo. End<br/>4%Roxbury No.<br/>47%Roxbury W.<br/>1%Roxbury So.<br/>25%A-No<br/>20%No. Dor.<br/>No. Dor.<br/>1%Matt.<br/>1%SOURCE:Circle Special Mobility Study, BTPR, 1972

Therefore, Roxbury North is highly penetrated, and Roxbury South and Over Sample Area North are well penetrated. We can infer, then, that the present market penetration of Dudley Square as a whole, is high in Roxbury North, is medium in Roxbury South and Over Sample Area North, and is low in Roxbury West. <u>The key potential area of</u> <u>market penetration seems to be Roxbury West and Roxbury South</u>. (see maps II.1 and II.2)

2. Modal dependence by area and income

Let us turn to a consideration of the modal dependence of shoppers. Over several neighborhoods, the distribution of modes used by residents called the "modal split," will vary. Since our choice of neighborhoods to route mass transportation requires the selection of the mode, we should consider this relationship.

### - 42 -



# MAP II.1 INTER-AREA, INTRA-AREA GROCERY TRIP-MAWING PATTERNS SOURCE: CIRCLE SPECIAL MOBILITY STUDY, BTPR 1912



### MAY I.2

POTENTIALLY INCREASED INTER-AREA, INTRA-ARE GROCFRY TRIP-MAKING PATTERNS The modes used for shopping based on the residential origin from the trade area to Dudley Square is as follows:

### TABLE II.6

### Modes Used for Grocery Shopping from Neighborhood

|  |                            | per c                      | per cent by each mode |                            |                       |  |  |  |
|--|----------------------------|----------------------------|-----------------------|----------------------------|-----------------------|--|--|--|
| Area   | Transit                    | Car                        | Taxi                  | Walk                       | <u>Other</u>          |  |  |  |
| Roxbury No.<br>Roxbury West<br>Roxbury South<br>Over Sample N.<br>Over Sample S. | 22<br>11<br>21<br>31<br>15 | 48<br>42<br>54<br>39<br>41 | 6<br>1<br>8<br>3<br>7 | 24<br>45<br>12<br>23<br>34 | -<br>1<br>5<br>4<br>3 |  |  |  |
| Wider Roxbury  | 17                         | 47                         | 5                     | 29                         | 2                     |  |  |  |
|  |                            |                            |                       |                            |                       |  |  |  |

SOURCE :

Circle Special Mobility Study, BTPR, uncompiled, 1972

The primary mode of transportation used is car (almost 50%). Transit is only the third most used mode (almost 20%). Therefore, <u>mass transit is an under-used mode for shopping</u>. In particular, the most "under-serviced" neighborhoods by transit are: Roxbury West and Over Sample Area North. These are, therefore, prime areas for transit location. Note that this analysis makes a simplifying assumption that each mode is a perfect substitute for shopping.

The distribution of modes used varies by income bracket Therefore, the public investment in one mode may tend to favor one income bracket over another. In shopping, we would like poorer income brackets to be serviced.

The distribution of use by mode within each income level in Roxbury is as follows:

### - 45 -

### - 46 -

### TABLE II.7

### Modal Split Within Income Levels "mode to/mode from" grocery store of major shopping

| Class       | Income           | Transit | Car   | Taxi  | Walk  |
|-------------|------------------|---------|-------|-------|-------|
| Very Poor   | less than \$3000 | 18/10   | 19/20 | 6/24  | 56/46 |
| Poor        | \$3000-5999      | 21/11   | 32/21 | 41/41 | 32/27 |
| ModerateInc | \$6000-9999      | 20/ 8   | 53/54 | 5/19  | 25/19 |
| Middle Inc  | \$10,000-14,999  | 9/8     | 60/61 | 6/18  | 24/14 |
| UpperMiddle | \$15,000+        | 2/1     | 19/16 | 77/77 | 2/6   |

SOURCE: Circle Special Mobility Study, BTPR, uncompiled, 1972 The very poor are very dependent on walking (about 50%). These are moderately dependent on transit (about 15%). And they are very dependent on taxis for their return trips (about 25%). Therefore, sidewalks and well-controlled traffic intersections are the most important mode to the very poor and are essential to their service needs (about 30%). A publicly subsidized service equivalent to taxis, like mini-busses, would be very important to the ppor, and important to the very poor for their return trip. Mass transit would be a little less important than taxi service for the poor and very poor.

The income split within each mode is a follows:

### TABLE II.8

#### Income Split Within Modes "mode to/mode from" grocery store of major shopping Income Transit Taxi Walk Class Car less than \$3000 27/27 39/43 10/10 26/26 Very Poor \$3000-5999 33/32 23/21 22/22 28/32 Poor ModerateInc \$6000-9999 29/26 20/20 32/32 23/25 Middle Inc \$10,000-14,999 10/14 13/10 23/23 20/15 5/10 14/14 3/ 2 1/ 0 UpperMiddle \$15,000+

SOURCE: Circle Special Mobility Study, BTPR, uncompiled, 1972 This suggests that public investment in pedestrian walk improvement would benefit all income brackets equally (except for the upper middle income class). Public investment in mass transit would benefit the very poor through the moderate income class. Public investment in mini-busses (a mode which tends to substitute for taxis) may benefit the moderate and middle income brackets more than the poor and very poor <u>if</u> the higher income brackets donot switch. A differential bus fare with a "sliding Scale" by income could compensate for this potential inequity. That is, a higher fare for those with incomes of for say, above \$10,000 per year, could belg subsidy/lower fares for those with lower incomes.

Finally, the distribution of the use of modes varies according to competing stores. The modes used for shopping based on the major shopping destinations in the trade area of Dudley Square reveals the following:

### TABLE II.9

### Modal Split by Major Grocery Stores Percent by Each Mode

| Store             | Transit | Car | Taxi | Walk |
|-------------------|---------|-----|------|------|
| Folsom's          | 10      | 19  | 14   | 57   |
| Blair's           | 42      | 27  | 13   | 18   |
| First National    |         |     |      |      |
| (i.e., Fainast)   | 23      | 40  | 2    | 35   |
| Stop & Shop       | 29      | 38  | 12   | 22   |
| Av. of All Stores | 16      | 47  | 6    | 32   |

SOURCE: Circle Special Mobility Study, BTPR, uncompiled, 1972 Mass transit investment will tend to benefit Dudley Square most. Mini-busses could benefit Folsom's and Dudley Square overall about equally. Improved pedestrian travel could benefit Dudley Square the least.

These figures on modal split underscore:

- (a) the current transit-dependency of the Dudley Square commercial area; and,
- (b) the prime potential for the expansion of the mass transportation system to benefit the commercial stores of the Dudley Square area.<sup>24</sup>

<sup>24</sup> For an operational discussion of mini-busses, see Roos, Daniel Operational Experience with Demand Responsive Transportation Systems, Dept. of Civil Engineering, MIT, Jan 1972

Lastly, let us examine the variation of shopping over time. This helps to estimate the capacity of each planned mode.

The variance of grocery shopping over hour of the day follows:

|   |                            |        |     | TABLE I                | I.10                       |                            |                            |                           |
|---|----------------------------|--------|-----|------------------------|----------------------------|----------------------------|----------------------------|---------------------------|
|   | Time                       | of the | Day | Shopping               | is Done                    | (% by are                  | <u>ea)</u>                 |                           |
| Area  |                            |        |     | before<br><u>10 AM</u> | 10 AM<br>12 AM             | 12AM-<br>4PM               | 4PM-<br>6PM                | after<br>6PM              |
| Roxbury N<br>Roxbury W<br>Roxbury S<br>Over-Samp<br>Over-Samp | o.<br>o.<br>le N.<br>le S. |        |     | 9<br>6<br>4<br>7<br>4  | 30<br>32<br>31<br>34<br>31 | 26<br>41<br>35<br>29<br>28 | 22<br>17<br>17<br>14<br>21 | 13<br>3<br>13<br>15<br>15 |
| Average   |                            |        |     | 7                      | 26                         | 36                         | 20                         | 11                        |

SOURCE: Circle Special Mobility Study, BTPR, uncompiled 1972.

The greatest number of shopping trips are taken during the midday period (62% during 10AM-4PM).

The time variance of grocery shopping over day of the week follows:

### TABLE II.11 Day of the Week Shopping is Done (% by area)

| Area            | Weekdays | Weekends | Both |
|-----------------|----------|----------|------|
| Roxbury No.     | 40       | 43       | 17   |
| Roxbury W.      | 46       | 47       | 8    |
| Roxbury So.     | 35       | 53       | 12   |
| Over-Sample No. | 38       | 53       | 9    |
| Over-Sample So. | 33       | 61       | 35   |
| Average         | 40       | 49       | 11   |

SOURCE: Circle Special Mobility Study, BTPR, uncompiled, 1972 The shopping trips are slightly biased toward weekends.

Therefore the capacity of a mode should be 9%/hr. (½ of 36%) of the total shopping trips per day. And the capacity of a mode should be 60%/day of the total shopping per week for Saturdays; and 10%/day (= 1/5 of 51%) for weekdays. (3) The additional transportation system.

We can now estimate (a) the potential increase in volume of shoppers by mode; (b) the potential increase in volume of shoppers from trading areas; and, (c) the potential increase in disposable income due to these two increases in penetration.

We can derive the base figures of shoppers by mode by taking the same modal distribution for Blair's (Table II.9) and multiplying by the total number of shoppers. Transit shoppers constitute the largest share: 4,800 per week.

We can estimate the potential increase of shoppers by mode by targeting the increase in usership by transit, car,, and mini-bus (see Table II.10). Transit shoppers, for example, increase by 1000 per week.

|          | Est                | imated Modal Di              | stribution of         | New Shoppers            |                   |                  |
|----------|--------------------|------------------------------|-----------------------|-------------------------|-------------------|------------------|
| Mode     | Shopping<br>Day    | Present Share<br>(trips/day) | Old %<br>Distribution | Increase/<br>(Decrease) | Projected<br>Load | New %<br>Distrib |
| Transit  | Weekend<br>Weekday | 2.4k<br>.49k                 | 428                   | 1.5k<br>.30k            | 3.9k<br>.79k      | 50%              |
| Car      | Weekend<br>Weekday | 1.5k<br>.31k                 | 27%                   | .5k<br>.10k             | 2.0k<br>.41k      | 26%              |
| Taxi     | Weekend<br>Weekday | .75k<br>.15k                 | 13%                   | (.37k)<br>(.07k)        | .38k<br>.08k      | 5%               |
| Walk     | Weekend<br>Weekday | 1.04k<br>.21k                | 18%                   | (.35k)<br>(.07k)        | .69k<br>.14k      | 98               |
| Mini-bus | Weekend<br>Weekday |                              | 0                     | .72k<br>.14k            | .72k<br>.14k      | 9 <b>%</b>       |
|          | Total per          | wk11.5k                      | 100%                  | 4.0 k                   | 15.5k             | 100%             |

TABLE II.12

The increase in total penetration of the market is from 23% to 35% (see Table II.13). Trips made by walk and taxi decrease by 33 1/3% and by 50%, respectively. Their trips are captured by the new minibusses. Auto traffic and transit increase to absorb the extra 12% of new shoppers. The marginal transportation system is 50% transit, 26%

- 49 -

automobile, and 9% bus and mini-bus service.

We can extimate the increase of the total penetration of the market by area by assuming the current maximum penetration of all trading neighborhoods, particularly for the nder penetrated neighborhoods of Roxbury West, Roxbury North, Over Sample Area North and the South End. We assume a total of 31% of transit usage of each area, multiply the household population times this figure to estimate the total penetration. This gives a total increase of penetration of from 1900 households/week to 3800 households/week, a marked increase! (Table II.13)

### TABLE II.13

Estimated Areal Distribution of New Shoppers

| Area                                     | Rox. No. | Rox. W. | Rox. So. | OA-No. | So. End |
|--|----------|---------|----------|--------|---------|
| Present # of<br>shoppers by<br>household | 1.16k    | .02k    | .62k     | .05k   | .02k    |
| Old % Dist                               | 478      | 1%      | 25%      | 28     | 18      |
| Inc shoppers<br>by household             | .08k     | .52k    | 0        | .63k   | .65k    |
| Total # of<br>shoppers                   | 1.24k    | .54k    | .62k     | .68k   | .67k    |
| New % Dist                               | 33%      | 14%     | 17%      | 18%    | 18%     |

(4) Potential Increase in Disposable Income

The increase in disposable income due to this increase penetration is \$8.5 million. The number of increased household shoppers times the average disposable income per household gives the increase of disposable income by area. (Table II.14).

|              | Estimat   | ed Increas                                   | e in Dispo | sable Inco | me Captured |  |  |  |
|--------------|-----------|--|------------|------------|-------------|--|--|--|
|              | in the    | in the Dudley Square Commercial Area by Area |            |            |             |  |  |  |
|              | Rox. No.  | Rox. W.                                      | Rox. So.   | OA-No.     | So. End     |  |  |  |
| Inc Shoppers | 1.24k     | .53k   | .62k       | .68k       | .67k        |  |  |  |
| Av. Hhd DI   | \$2910/yr | \$3060/yr                                    | \$3900/yr  | \$3840/yr  | \$2700/yr   |  |  |  |
| Inc DI       | \$227k    | \$1590k                                      | \$2420k    | \$2410k    | \$1810k     |  |  |  |
| Present DI   | \$3430k   | \$6k   | \$2420k    | \$192k     | \$27k       |  |  |  |
| Total Inc DI | \$8,46m   |  |            |            |             |  |  |  |

We have defined now the basic elements of an additional transportation system. This marginal system is highly mass transit dependent; it provides additional capacity for automobile (and truck) traffic; it provides additional bus service to support shopping; and, it cleans up barriers to pedestrian travel (viewed here as a captive usership that cannot be easily discouraged by physical barriers).

We shall next derive a transportation plan for Dudley Square. The heart of the plan is a new transit station at Dudley Square, and the conversion of the square to a pedestrian-bus mall supported by a mini=bus service.

### TABLE II.14

### PART II: The Methodology and the Plan

### Introduction

The methodology of this mass transportation analysis seeks to serve three primary criteria:

first, to increase the consumer market through increased transportation access over all priority modes;

second, to reduce conflict between transportation modes; and,

third, to provide for the minimum amount of excess transportation capacity to support the expanded retail development (analyzed in Chapter III).

Five modes plus one storage of a mode are considered sequentially in Part II. These are: mass transit subway, automobile, parking, pedestrian travel, bus service and mini-bus service ( a type of public taxi-bus service). We will produce a six part general transportation plan.

In the following, each mode plus the storage are considered individually by a methodology which elaborates on the three criteria defined above.

Unlike all other modes, transit will consider additional but only a preliminary cost/benefit analysis. Further, the transit section will also consider its background politics leading up to the present period (one which has changed actors, but not structure). This underscores the centrality of mass transit above all other modes in this development program.

### Community View of a Regional Mass Transit Plan in Roxbury

### (1) Methodology:

For mass transit, we will review each of the major policy alternatives for mass transit facilities in Roxbury. Second, we will judge these alternatives on the critieria of linkage of under-penetrated trade neighborhoods by transit to the Dudley Square area. Third, we will compare the capital costs of construction of each transit facility to the potential increase of disposable income captured for expenditure in Dudley Square.

(2) The Plan:

The current regional mass transit plan of the Joint Regional Transportation Committee/JRCC<sup>24</sup> is a four-phase plan for Roxbury:

### Table II.14 Present Mass Transit Plan in Roxbury

- Phase I Construction of the relocated Orange line from Essex Station along the Back Bay railroad bed through Roxbury and Jamaica Plain, to Norwood,
- Phase 2 Dismantling of the Washington Street elevated from Forest Hills, Jamaica Plain to Dudley Station, Roxbury;<sup>2</sup>
- Phase 3 Construction of the "adequate replacement service" through Roxbury and the South End,<sup>3</sup>
- Phase 4 Dismantling of the Washington Street elevated from Dudley Station to Essex Station.<sup>4</sup>

SOURCES:

1. Eastern Massachusetts Regional Planning Project <u>Guides for</u> <u>Progress: Development Opportunities for Metropolitan Boston</u>, <u>1968 Recommended Highway and Transit Plan DPW & MBTA 1968</u>

Program for Mass Transportation MBTA 1966 Staff Supplemental to a Program for Mass Transportation MBTA 1968 Revised Program for Mass Transportation MBTA 1969 Funds for Transit Report to the Governor & General Court MBTA 1970 Chapter 563 of Acts of 1964, Commonwealth of Massachusetts, 1964

- 2. <u>BTPR Southwest Preliminary Location Report, Program Package</u> <u>Evaluation Report</u>, Executive Office of Transportation & Construction 1972
- 3. Governor Francis W. Sargent "Policy Statement on Transportation in the Boston Region". Office of the Governor, Commonwealth of Massachusetts, November 30, 1972

4. Chapter 563 of Acts of 1964, Commonwealth of Massachusetts 1964

24. The JRTC is a metropolitan Boston advisory planning board operating directly out of the State Dept. of Public Works (DPW) in coordination with the Mass. Bay Transportation Authority (MBTA), under the direction of the Executive Office of Transportation and construction (EOT). The responsibility of the JRTC is the integrated planning of a regional urban expressway and mass transit network in metropolitan Boston. The findings of the JRTC are submitted to the Governor, who will make the final decision about capital investment and plan of each expressway and transit link.

- 53 -



### MAP I. 3

PHASE I: RELOCATED META ORANGE LINE TO PENN CENTRAL BACK BAY BR TRACKS SOURCE: BTPR, 1912



MAP T.4

PHASE II : DISMANTLING OF THE WASHINGTON ST. FLEVATED BEEST HILLS TO DUDLEY STATION

SOURCE: BTPR, 1972
- SOURCE: DEVELOPMENT COOPTINATOP'S OFFICE
- TO PNDLEY STATION
- STREET TROLLEY ALONG WASHINGTON ST.
- PHASE III : SOUTH END REPLACEMENT SERVICE

# MAP I.S





# MAP I. b

PHASE IIT : ROLENRY REPLACEMENT SERVICE WARREN STREET RONTE - SUBWAY RUGGLES ST. TO GRADE HALL

Source: STPR 1972



MAP II.1

- PHASE III : ROXBURY REPLACEMENT SERVICE BULE HILL AVE ROUTE - SUBVIM FURGLES TO GROJE HALL
  - SOURCE: S.W. LAND DEVELOPMENT COALITION



# MAP IL 9 PHASE JE: DISMANTLE WASHINGTON ST. EL DUDLEY STATION TO E. BERKELEY AND EVSEY. ST. SOURCE : BTPR, 1973





(see Map II.3-II.8)

The decision of what facility and what alignment of the replacement facility is pending. There are different positions on the alternatives. First, are positions for the routes through Dudley Square (i.e., Phase III). Second, are positions for the routes leading to Mattapan Square (a possible Phase V). Let us review the alternatives for Phase III (see Maps II.6-II.7).

#### Table II.15

#### Phase III: Policy Alternatives of the Washington Elevated Replacement Transit Service

#### facility

#### alignment

supporter

South End Replacement Service

| a. | No facility - use<br>buses instead | no alignment-<br>use routes along the pre-<br>sent elevated from Dudley<br>Station to the Boston<br>Common | Mayor White's<br>Transportation<br>Advisor, Frederick<br>Salvucci. |
|----|------------------------------------|--|--|
|----|------------------------------------|--|--|

b. Street Trolley

alignment across the Turnpike to Washington Street, from the old Broadway Station to Dudley Station, and back again. Executive Secretary Transportation and Construction, Alan Altshuler, and South End Transportation<sup>2</sup> Committee.

#### Roxbury Replacement Service

c. Subway 1. radial

alignment along Shawmut H Avenue, Washington Street, or Harrison Avenue from the Essex Station to Dudley Station, then along <u>Warren Street</u> to Grove Hall.

2.circumferential transit -radial

alignment from New Mission Hill Station along the Boston Inner Belt Route, through new Dudley Station, turn south along <u>Blue Hill Avenue</u> to Grove Hall.

BTPR option  $^3$ 

Circle, Inc., and Southwest Corridor Land Development Coalition.<sup>4</sup>

- SOURCES: 1. Transportation Advisor to the Mayor, Office of the Mayor of Boston
  - 2. Executive Office of Transportation and Construction
  - 3. <u>BTPR Southwest Preliminary Location Report Program</u> <u>Package Evaluation Report</u>, Executive Office of Transportation and Construction, Commonwealth of Mass 1972
  - 4. Southwest Corridor Land Development Coalition

The present alternatives forPhase V are only two (see Map II.9). At present, however, fiscal constraints do not allow for the state committment to a mass transit extension to Mattapan Square. The funding available from the federal government (UMTA) is limited and the present committment of Massachusetts' share to other mass transit projects leaves now new funds for committment to Phase V.

#### TABLE II.16

### Phase V: Tentative Alternatives of the Extension of the Roxbury Replacement Mass Transit Service to Mattapan Square

| facility | alternative | route   |
|----------|-------------|---|
| subway   | 1           | FromGrove Hall along Blue Hill<br>Avenue to Mattapan Square   |
|          | 2           | From Grove Hall along Washington<br>St. (Dorchester) and the Penn<br>Central Midlands Branch rr bed<br>to Mattapan Square |
|          |             |   |

SOURCE: BTPR Southwest Preliminary Location Report Program Package Evaluation Report, Executive Office of Transportation and Construction, Commonwealth of Massachusetts 1972

Let us turn to a consideration of the policy alternatives of the key phase, Phase III. First, we will consider the benefits, but only those of an increase in the retail sales in Dudley Square.

Alternative I (trolley between Shawmut Avenue and Harrison Avenue) links the South End to Dudley Square while the other alternatives do not. The South End, however, is only 17% black, although the SETC block area (census tract 912) is 49% black. The potential addition of disposable income is only \$1.5 million.

Alternative 2 (subway along Warren St.) links Roxbury West to

Dudley Square, while alternative 1 does not. Roxbury West's only 26 % black, but the public housing area is 44% black (i.e., Mission Hill Extension and Whittier Street projects), and 58% black (i.e., Bromley Heath project). The potential addition of disposable income is \$5.9 million.

Alternatvie 3 (subway along Blue Hill Avenue) links not only Roxbury West, but also Over Sample Areas, to Dudley Square. Over Sample Area No. is 38% black; Over Sample Area So. is 91% black. The potential addition of disposable income is \$5.9 + \$7.1 million = \$13.0 million.

The estimates of potential additional disposable income captured for the Dudley Square area estimates little penetration at present of the South End, Roxbury West and Over Sample Area So. Penetration is high in Over Sample Area North (see Table II.5).

Therefore, <u>Alternative 3 presents the greatest potential</u> <u>commercial benefits</u>.

Next let us look at the costs of the alternatives. Only the limited costs of construction are examined. The costs of construction of the transit facilities are considered.

#### TABLE II.17

Phase III: Estimated Costs of Construction of Alternatives 1972 prices

| facility al  |           | Lignment   | stimated cost                      |  |  |
|--------------|-----------|--|------------------------------------|--|--|
| Trolley      | l.a.      | Essex Station to Dudley<br>Station <u>over</u> Turnpike  | \$19 million                       |  |  |
|              | b.        | Essex Station to Dudley<br>Station <u>under</u> Turnpike | \$40 million                       |  |  |
|              |           | minimu<br>maximu   | m \$19 million<br>m \$40 million   |  |  |
| Subway 1.    |           | Orange line thru Inner<br>Belt route to Wash.St.         | \$20 million                       |  |  |
|              | 2.a.      | Dudley Station along<br>Warren St. to Grove Hal          | l \$88 million                     |  |  |
|              | b.        | Dudley Station along<br>Blue Hill Av-Grove Hall          | <u>\$107-\$120 million</u>         |  |  |
|              |           | minimu<br>maximu   | n \$108 million<br>n \$140 million |  |  |
| SOURCE: BTPR | Southwest | Report, 1972   |                                    |  |  |

- 64 -

Taking our maximum extimates of both our limited costs and benefits, we have the following. The investment of \$40 million for the trolley could generate \$1.5 million in extra sales per year. The investment of \$108 million for the Warren Street subway could generate \$5.9 million in extra sales per year. The investment of \$140 million for the Blue Hill Avenue subway could generate \$13 million in extra sales per year. Therefore, from this <u>very</u> preliminary cost/benefit sketch, <u>the third alternative</u> of the Blue Hill Avenue subway yields the greatest net benefit <u>of all alternatives</u>. The Blue Hill Avenue subway can "pay off" the initial investment in under 11 years assuming some moderate growth.

#### TABLE II.18

#### PhaseIII: Comparative Costs and Increase in Potential Sales 1972 prices

| Alternative         | <u>Max Est Cost</u> | Max Est Sales      |  |  |  |
|---------------------|---------------------|--------------------|--|--|--|
| So End trolley      | \$40 million        | \$1.5 million/year |  |  |  |
| Warren St. subway   | \$108 million       | \$5.9 million/year |  |  |  |
| Blue Hill Av subway | \$140 million       | \$13 million/year  |  |  |  |

Since the development program is an investment plan, the time frame of investment is critical to the development of a work plan. Time estimates will be used to estimate the time value of money (i.e., a dollar invested now is worth more now than a dollar invested ten years from now). This may alter the ranking of the alternatives. The next section yields a likely schedule of development.

We must make very clear at this point that there are far more costs and benefits to be considered to do a final analysis. These include benefits of linkage, of other economic criteria such as employment, and costs of housing a retail complex(see vol II).

#### Schedule of Mass Transit Construction

The assumptions of the time estimates of the schedule follows. The estimates of design and construction are taken from similar projects in the Boston area.

|                      | Table II.9 |          |                 |            |        |                    |        |          |    |
|----------------------|------------|----------|-----------------|------------|--------|--------------------|--------|----------|----|
|                      | The '      | Time 1   | Estimate 🤅      | of Design  | and (  | Construction       | of Mas | ss Trans | it |
| Task                 |            |          |                 | Project    |        |                    | Time 1 | Estimate | •  |
| Planning             |            |          |                 | Haymarke   | et No: | rth                | One Ye | ear      |    |
| Engineering          |            | Haymarke | Haymarket North |            |        | One Year           |        |          |    |
| Initial & Final      |            |          |                 |            |        |                    |        |          |    |
| Trolley Construction |            | Green Li | Green Line      |            |        | Four to Six Years  |        |          |    |
| Subway Construction  |            | Haymarke | Haymarket North |            |        | Six to Eight Years |        |          |    |
| SOURCE:              |            | МВТА     | , Planning      | g Departme | ent    |                    |        |          |    |

The contingencies for phasing follow.

The starting time of capital construction depends on the securing of the capital grants from the Massachusetts Great and General Court to match that of the committment of the Federal Urban Mass Transportation Administration. Only the state bond committment is wanting (and the state bond committment is nearing its upper limit set by federal legislation).<sup>26</sup> It takes at least one session for the state legislature to pass a bond issue.

The design of the mass transit facilities could proceed the two year prior to capital committment. In fact, state capital committment to a Grove Hall link in Roxbury may depend on completion of the early design phases.

The resultant schedule for transit construction is shown in Table II.4. Four phases of transportation development which can overlap in order to collapse the total time for completion.

Mapage 67

26. Conversation with Rep. Mel King, September, 1973



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(Page 67)

## TABLE I-20

APPROXIMATE SCHEDULE OF ROXBURY TRANSIT CONSTRUCTION AND DEMOLITION



To put this another way, the <u>critical path</u><sup>27</sup> is the gubernatorial policy decision and the legislative land committment to the community mass transit circumferential and radial lines. However, we can expect the time it takes to be much longer given the slowness of the transportation bureaucracy and the reluctance of the state legislature to spend money.

Delays  $\inf_{p \otimes licy}$ , budget, administrative and construction decisions would lengthen the time frame of development. The total time for the completion of the transit development program under optimistic assumptions is 12 years.<sup>28</sup> (See Table II.20).

The final mass transit plan is recapitulated at the end of the chapter.

#### Automobile Traffic Circulation:

1. Methodology - 3 Design Problems:

The network of streets to support private automobiles that seek to shop in Dudley Square is more than adequate. Each neighborhood within the trading area is connected to Dudley by streets with sufficient capacity. The design problem is three fold. First, the construction of the arterial street as an alternative to the I-95 South/Boston Inner Belt should insure that no through commuter traffic pass through an already concested Dudley Square. Second. the present through traffic in Dudley Square should be diverted around the

27. Kelley, James E., Jr. and Morgan R. Walker "Critical Path Planning and Scheduling"<u>Proceedings of the Eastern Joint Computer Conference</u>. Boston December, 1959. See also: Kelley, James E, Jr. "Critical Path Planning and Scheduling:Mathematical Bases" <u>Operations Research May-June, 1961.</u>

28. Conversation with Robert Sloane, formerly MBTA Assistant Planner and BTRP community technical assistance team member, June 11, 1974.

- 69 -

Dudley Square should be controlled so that it minimizes conflict

with pedestrian travel. Third, the street system should have enough capacity to support the new traffic generated by the new retailstores 2. The Plan:

The first design problem can be solved only through the proper design of the arterial. The travel time of the arterial must be less than that of the possible paths through Dudley Square. Therefore, the capacity of the arterial must be great enough to carry the expected commuter traffic. And a minimum of stops of arterial traffic must be achieved.

Unfortunately, little potential exists to prevent through arterial traffic out of the Dudley Square commercial area. There is no way to limit exits and entrances of the arterial street. And some auto traffic will cross the arterial street to get to and from Dudley Square.

Some of the arterial traffic may choose to cut through Dudley Square. If this is a small volume, the solution to the second design problem can handle this added use.

The second problem could be solved through the redirection of the vehicle traffic which now passes through Dudley Square around its boundary. That is, traffic along Washington Street and Warren Street in the Dudley Square area should be redirected along Harrison and Shawmut Avenues.

The traffic on the boundary of Dudley Square could be routed in a circular one-way loop, travelling counter-clockwise. This recommendation was made by the Southwest Corridor Land Development Coalition.<sup>29</sup> (See Map II.11).

A recalculation of the traffic flow of the six main streets show that this new traffic pattern is possible if:

- (1) Warren St. and Shawmut Avenue are widened one lane;
- (2) bus traffic is routed to minimize conflict with vehicle traffic;
- (3) delivery trucks arrive during off peak hours.
- (4) no on-street parking is permitted during the peak hours of 7:30-8:30 am; 12:30 -3:00 pm and 3:30-6:30 pm., and
- (5) no significant amount of additional commuter traffic passes.

Some congestion may occur, most likely on Shawmut Avenue. and Warren Street. The result of the traffic analysis appears in Map II.11.<sup>30</sup>

The amount of auto traffic generated will be limited by the economies of the new retail stores. Some of the disposable income available for a given retail category is not enough to support a retail store. Therefore, the contribution to the auto travel will be less than the potential travel.

The impact of the shopping center investment proposed in the marketing analysis requests a peak volume of 315 cars. This is not enough to overload the new traffic loop.

Therefore, the loop is a feasible traffic solution.

The third problem could be solved through the use of traffic lights at key pedestrian-street intersections. The essential trading neighborhoods of RAP, Whittier Street and Mission HILL Extension public housing projects, ROXSE, Camfield-Lenox public housing and Orchard Park public housing must be linked by pedestrian walks to Dudley Square. Using existing streets, we can pinpoint the key

<sup>30.</sup> The current vehicle loadings are taking from: Segal, Murray-Dudley Terminal TOPICS Proposal-City of Boston, May, 1971.



intersections lacking traffic lights. These are: Shawmut Avenue at Sterling St., Ruggles St., Vernon St., Dudley St. at Washington St. and Harrison Ave.; and, Harrison Ave at Eustis Street and Sterling Street.

#### Parking Requirements

 Methodology - demand pedestrian conflict & design interior: No service parking demand in Dudley Square exists at present.
Only First National Bank and National Shawmut Banks, which provide drive-in services need extra parking.

Parking entrances could be located off the major pedestrian interchange, thereby reducing conflict.

2. The Plan:

The parking requirement of the new shopping center is 315 spaces. This is 57k gross leasable area x 5.5 parking spaces/lk GLA = 315 parking spaces. (This is the Urban Land Institutes' standard formula). This is the design capacity of the parking. The Pedestrian Bus Mall

1. Methodology - conflict and design criteria:

The chief conflict in the Dudley Square commercial area is that of cars, buses and pedestrians. Vehicle traffic can be pushed to the boundary. Bus traffic cannot be if the main bus terminal remains at Dudley Square. We will here assume that some major bus service will remain in Dudley Square. The pedestrian mall, reserved bus lan emerges as the most feasible solution to reducing conflict. 2. The Plan:

Aside from the new transit station, the heart of the transportation plan for the Dudley Square area is the <u>pedestrian-bus mall</u>. (see Map II.11) This alternative is feasible in terms of traffic load, circulation, and (on-street) storage. Under this traffic

- 73 -

plan:

- (1) Washington St. is turned into a pedestrian mall, possibly at sidewalk level, from Dudley St. to Sterling St.;
- (2) Reserved bus lanes are constructed along Washington St., Warren St. and Ziegler Street, perhaps one-way clockwise around Ferdinand's. This reserved bus lane is narrower than the street, therefore, permitting the widening of the sidewalk.;
- (3) Buses running along Washington St. could carry shoppers from Dudley bus terminal to the new transit station and shopping center site, possibly at a reduced fare.
- (4) Trucks delivering and cars parking would be diverted into the side streets off Shawmut Avenue and Harrison Avenue. Parking would be provided at these side streets. These side streets would be dead-ends at Washington St. and Warren Street.
- (5) Synchronized traffic lights would be placed at key pedestrian corners and bus intersections. These key intersections include Shawmut Ave. at Sterling St., Ruggles St., Vernon St.; Dudley St. at Washington St. and Harrison Ave.; and, Harrison Ave. at Eustis Street and Sterling St.

This pedestrian-bus mall would:

- (1) eliminate the traffic conflict between buses and autos, and between autos and pedestrians in the mall; and
- (2) regulate the traffic conflict between pedestrians and autos at the boundaries of the mall.

As noted earlier, the present boundary streets (except Sterling

Street) could carry the redistributed traffic loads.

#### New Bus Route

(1) Methodology - Service and Conflict Design Criteria:

Two major problems are the insufficiency of service to potential trading areas, and conflict of buses with vehicle traffic. The only major trading neighborhoods not serviced by bus service are the eastern edge of Roxbury West and the northern edge of Roxbury North. This area could be serviced by either: (a) a new or modified bus route such as the experimental route now running along the proposed transit circumferential alignments; or (b) a mini-bus service. A possible routing of the bus appears in Map II.12.

2. The Plan:

The plan of the bus routing is to pass through (a) Mission Hill Extension Projects, (b) Lower Roxbury Community Corporation; (c) Lenox-Camfield Projects; (d) South End Tenants' Development Corporation, and (e) RAP.

Experimental Mini-Bus Service:

1. Methodology:

Previous methods of analysis examined <u>new</u> serviceor reducing the conflict of existing usage of modes. In this last part, we examine meeting existing<sub>service</sub> in order to provide savings in travel costs (mainly taxi fares). We are forced to do this because the demand generated by the new shopping will not likely support a mini-bus service alone. Therefore, the service will be provided to all of Dudley Square.

Again, as an indicator of demand, we take only food trips (a limit of the data). First, the total grocery trips are derived, and then broken down to daily loadings. Then the daily trips by grocery store is derived by the market share of each store. The mini-bus will be a substitute for the modes of taxi and walk. Then a target capture of the taxi and walk trips gives the estimate of daily trips by mini-bus to each store. The result is a trip demand that will support several mini-buses of average ridership.

- 75 -



| Estimated Grocery D    | Table II.21<br>Demand for Demand Res  | ponsive Transporta                     | ation                               |
|------------------------|---|--|-------------------------------------|
|                        |   |  |                                     |
| Grocery trips per      | month = household p<br>in trading   | opulation x aver<br>area trip          | age grocery<br>os per month         |
|                        | $= 10,700 \times 6.$  | 5 = 69,000                             |                                     |
| Major shopping/we      | ekend = <u>share of ma</u><br>all grocery   | jor trips X week<br>trips mont         | h                                   |
|                        | x shoppers on shoppers al.  | weekend x groc<br>lweek mont           | ery trips<br>h                      |
|                        | $= 2/3 \times \frac{1}{4} \times 69$  | 9.6k = 5.8 trips/S                     | aturday                             |
| Major shopping we      | ekday = <u>share of tr</u><br>share of tr   | ips/weekday x majo<br>ips/weekend week | r shopping trips<br>end             |
|                        | $= 1/5 \times 5.8k =$   | = 1.2k trips/weekd                     | ay                                  |
| Total grocery tri      | ps/store= <u>market shar</u><br>total marke   | re of store x majo<br>et week          | r shopping<br>end or weekday        |
| Shopping Market S      | hare Major Shopping   | g/Weekend Major                        | Shopping Weekday                    |
| 15%<br>3%              | .870<br>175   |  | .180<br>30                          |
| Target Capture =       | % of taxi trips x <u>tax</u><br>all   | <u>ki trips</u> + %of wal<br>L trips   | ks x <u>walk trips</u><br>all trips |
|                        | = 50%(0%) + 3   | 33 1/3% (24%) = 11                     | % of all trips.                     |
| Mini-bus trip/day      | = major shopping/wee<br>by store  | ekend or weekday x                     | target capture                      |
| For shopping marke     | et share <u>weekend</u>   | weekday                                |                                     |
| 15%<br>3%              | 96<br>19  | 20<br>4                                |                                     |
| Mini-bus trip/½ ho     | $\operatorname{our} = \frac{1}{2} \times \frac{1 \operatorname{day}}{\operatorname{number of s}}$ | hopping hrs/day x                      | mini-bus trips<br># days            |
| For shopping marke     | etshare trips/½ hr<br>weekend   | trips ½<br>weekday                     | hr                                  |
| 15%                    | 6   | 1.25                                   |                                     |
| 3%<br>Mini-bus Service | 1.2<br>For Shopping Market  | .25<br>Trip/½hr Tr<br>Weekend We       | ips/hr<br>ekday                     |
| many-to-one            | 1 15% store   | 6                                      | <br>l                               |
| many-to-few            | 10 3% stores  | 12                                     | 3                                   |

- 77 -

Therefore, <u>Dudley Square can support one mini-bus servicing</u> <u>1 15% store (called many-to-one) on Saturday, and at least one</u> <u>or more mini-busses servicing 10 3% share stores each (called</u> <u>many-to-one).</u>

More work is needed to recheck whether there is sufficient unmet demand that would change consumer behavior to use this new type of transportation mode.

## Summary Program Recommendations for Transportation Construction and Service Development

In summary, the following recommendations are made:

Program recommendation 1: That a <u>mass transit subway</u> be constructed from the Ruggles St. Station of the New Orange Line along the cleared land of the rejected Boston Inner Belt with a station at Dudley Square, then turn south along Blue Hill Avenue to Grove Hall.

Program recommendation 2: That a <u>TOPICS</u><sup>31</sup> program be instituted that would convert the Dudley Square commercial area into a pedestrian-bus mall. Washington St. and Warren St. would be closed off to cars and trucks between Dudley St. and Sterling St. Sterling St. would be widened to handle one land two-way traffic. All side streets leading into Washington St. and Warren St. would be dead-ended. Traffic lights would be put in at key pedestrian-auto interchanges.

Program recommendation 3: That a <u>demand-responsive transportation</u> <u>system</u> be instituted on an experimental basis with a minibus fleet of at least 1 many-to-one and at lease 1 many-to-

few types.

31. TOPICS is a municipal program that provides funds for improving traffic flows and pedestrian safety. see also, Policy and Procedure Memorandum 21-18, "Urban Traffic Operations Program to Increase Capacity and Safety" U.S.DOT 1969

- 79 -

#### CHAPTER III:

#### Expanded Commercial Development: A Retail

#### and Wholesale Investment Package

.The Application of Principle II:

"Investment must capture consumer expenditures for reinvestment or distribution back into the ghetto economy";

of Principle III:

"DPA investment must be aimed at import substitution and at backward linkage";

and of Principle IV:

"Both private and public investment and public subsidy must be tied to place".

#### Introduction

In this chapter, we analyze the implications of principle 2 (capturing of consumer expenditures) and principle 3 (backward linkage into wholesale). This first principle is expanded in terms of the disposable income of residents of the trade area as indicated by housing. Then it is examined in terms of the market assumptions of the retail sector. The second principle is examined also in terms of its market assumptions of the wholesale sector. Finally, commercial development is related to principle 4 (public subsidy).

#### PART I: Theory

In the preceding chapter, we examined the relationship of transportation mode to area and disposable income of residents in that area. However, we have no data that relates transportation mode to retail category of consumer expenditure. Through the former relationship, we inductively derived a transportation plan to support commercial development in general. To analyze what specific type of commercial development we will have to use another approach.

In this second approach, we will relate trade area directly to retail expenditures by category. This is a deductive approach to market analysis. The transportation system is assumed to be adequate to support commercial development. New housing development in the trade area may increase the potential for commercial development through the increase of disposable income available within the trade area. At this stage of the Circle program, however, housing development is not a major program element. (This is now changing.)

Given the trade area, then, the next aim is to maximize commercial development. The approach is to analyze the uncaptured retail expenditures to derive market feasible retail stores. The purchase of these retail stores may support wholesale enterprise. Time is introduced to forecast future sales potential on which to base future commercial development.

Finally, public support of ghetto commercial development is reviewed as a subsidy program.

#### The Interdependency Between Housing and Commercial Development

The housing in the trading area can determine the family income of potential shoppers. Therefore, it can effect the potential for new commercial development. In this trading area, this dependency is particularly important. There is a large amount of federally-subsidized low and moderate income housing. Family income levels of eligible tenants are fixed within set income ranges to insure that this housing will be used by the clients intended to benefit from this housing subsidy. These eligibility requirements limit the total potential disposable income in the trading area.

In summary, if housing is either below standard or subsidized, the disposable income will tend to be low per structure. If housing is above standard or privately rehabilitated or constructed, the disposable income will tend to be high per structure. Increased density of households per structure per unit land may increase disposable income, and therefore tend to offset low disposable income of poorer households. But in general, for the same structure per unit land, total disposable income will be lower for poorer housing.

- 82 -

An investment program that includes housing development as well as commercial development could do either of two things. First, the investor could build or renovate housing that would attract the household income levels that fit the existing market penetration of stores owned by the investor. Second, the investor could aim new commercial enterprises at the customer market segment that is the target of the new commercial enterprises. In this case, the investor would construct or renovate housing at the level that would fit the planned market segment. At this point in time, Circle is not considering such an investment program. Therefore, we will drop consideration of direct housing investment.

On the other hand, improved commercial development may attract private tenants of higher household income to fill current vacancies or to replace tenants of lower household income or new homeowners may decide to buy substandard housing and invest in its rehabilitation. In these cases, commercial development stimulates housing development. Further, the disposable income per structure increases, therefore increasing further commercial expansion.

These inter-relationships of housing and commercial development are called "interdependencies." Federal low and moderate income housing development in Lower Roxbury, has provided a stimulus to commercial development in Dudley Square.

This low and moderate income housing is the key untapped trading neighborhood in the Dudley Square trading area.

- 83 -

Commercial development in the ghetto in this conventional market analysis is predicated on the imperfection of the market. That is, gaps in retail categories are viewed as opportunities for development based on the lack of finance and entrepreneurship. Finance may be lacking and entrepreneurs may be sparse. Thus, "the market does not choose" to fill the current gaps. And public action to support retail development is an effort to correct for market imperfections.

No effort is made to promote active competition with existing commercial enterprises in the trading area. Such an effort would require finance, entrepreneurship and management capabilities beyond the present ability of development institutions. This may be a future goal of ghetto economic development. That is primary dualistic commercial enterprises which dominate a retail segment and exploit ghetto dwellers may be prime targets of competition supported by ghetto development institutions.

If any competition is promoted, it is with existing commercial enterprises located outside the trading area. Such an effort yields a comparative advantage in favor of commercial enterprises within the trading area. That comparative advantage is the reduced transportation cost of the shopping trip to the shopper.

Further, for trading areas within the client ghetto, an effort is made to avoid competition. This will succeed if the economies of scale of commercial enterprise allow it. For retail business, the economies of scale do. Given this, the avoidance of competition provides ample opportunity to spread effects of development investment through the development of several comm-

- 84 -

ercial centers through the ghetto. This will work for communityscale centers.

Backward linkage into the wholesale sector can also avoid competition. To the extent that sufficient community-controlled retail stores in a given category exist, wholesale development can be supported. Again, the lack of finance, entrepreneurs and managers will constrain wholesale development.

The regional development of mass distribution of wholesalers in most retail categories will be strong competition to wholesale development. Only the savings of the wholesaler's discount will permit the ghetto wholesalers to be close to competitive. Competition and finances of wholesale operation must be analyzed carefully.

#### Publicly Supported Commercial Development As Subsidy

Commerce in a ghetto is often a low profit operation for the owner, or a cheap buy for the customer. Often, the owner must sell low unit contribution goods, absorb theft, risk fire. If the owner chooses to turn a higher profit, it is at the expense of the worker's pay and the customers' goods. The customer often must buy cheap quality goods, with no warranty, sometimes on credit with high interest rates.

Commercial development is then, a losing proposition in several ways. It can work if public finance supports its operation. In conventional ways, public finance can lessen capital costs and overhead expenses of building, land and property taxes. In nonconventional ways, public finance can grant equity and subsidize debt through capital investment and subsidize mortgage interest rates. In sum, public support of commercial development in a

- 85 -

ghetto must subsidize its finances.

We shall turn next to the analysis of a market feasible investment package in commercial development. "Market feasible" means that ventures that are organized in conventional manner in a market where consumer behavior does not change significantly in pattern and under prevailing costs in that industry and area can operate with prevailing profit rates. The heart of this package is a junior department store-supermarket complex, an automobile dealer-gas station complex, and a food and automobile wholesaler.

#### PART II: Methodology

There are six steps to this analysis:

- first, we examine the impact of the new low and moderate income housing on the trading area of commercial business;
- second, we make projections of future markets within the same geographical trading area;
- third, we estimate market sales not serviced by present retail businesses in Dudley Square;
- fourth, we identify retail businesses that can be supported by the increase in market sales projected;
- fifth, we analyze the impact of investment in community scale retail businesses in Dudley Square (i.e., the potential for nodal development) on neighborhood retail business (i.e., the potential for spine development); and,
- sixth, we examine potential investment in wholesale business due to the expected purchases of the proposed retail development (i.e., the potential for backward linkage).

The result of this analysis is a market feasible investment package for the Dudley Square commercial area. (Note again that this is not the final investment package to be recommended.)

The sequence of calculations of this analysis follows eleven steps as follows:

first, the increase in housing in each neighborhood of the trading area is used to derive a factor for the increase in population of each neighborhood. The income distribution is assumed to remain the same.

- 86 -

Therefore, the income of each neighborhood is derived by multiplying by that same factor.;

second,the percentage amount of disposable income spent on each retail category according to income brackets of \$3000 is used from the results of the Bureau of Labor Statistics last consumer survey (1962);

third, the disposable income for each neighborhood is then derived by multiplying the consumer expenditure factors of the BLS survey times the total income projected for each neighborhood;

- fourth, the market characteristics of each neighborhood is analyzed based on the results of the 1970 U.S. Census. No effort is made to adjust these figures. Now the market is defined by area, by income, by race and by age. Note that the factors of consumer expenditure may vary by race and by age (perhaps even by area). However, no account of this is taken due to lack of information.;
- fifth, the present Dudley Square market share of the total market of retail expenditures is derived from dividing the total sales of each retail category of Standard Industrial Classification as reported by the Dun and Bradstreet Market Indicators, a census of businesses, by the total retail expenditures of each retail category by Bureau of Labor Statistics as calculated in step three;
- sixth ,the neglected market share of the total market of retail expenditures is derived by subtacting the total present sales from the total estimated present retail expenditures in each category;
- seventh, the potential market sales of each neglected or underpentrated retail category is derived by multiplying a large, usually not maximum market share in a given retail category by BLS or by SIC code, and never exceeding a 15% market share for one store, times the total retail expenditures in those neglected or underpenetrated retail categories. The base of the multiplication are the future sales, while the multiplier is based on present market penetration. Therefore, the result of this multiplication is an estimate of future sales.;
- eiqhth,the criterion for the evaluation of these figures for projected market sales is based on the comparison of the size of these projections to the size of present retail stores in community scale commercial centers. This criterion is the sales/square feet, derived in a survey of shopping centers in the nation by the Urban Land Institute. The latest such survey is 1972.;
- ninth, the evaluation of the potential market for retail stores is based on whether the projected size of the retail stores are larger or smaller than the medium range for community scale retail stores.

The range of retail stores is also broken down by the type of organization: national chain, local chain, or independent. Conditional acceptance depends on the subsidy of costs and/ or the non-profit operation of the retail stores.;

- tenth, the recapture of consumer income flows is estimated by dividing the total of the accepted retail stores of step nine by the total disposable income in retail consumption for the Dudley Square commercial trading area;
- eleventh, the same market analysis done for a community scale commercial center is done for a neighborhood scale commercial center. Instead, a different set of retail stores, though they overlap somewhat, appear nationally in neighborhood scale commercial centers. Similarly, the medium range of sizesof retail stores are smaller than those of community scale commercial centers.; and,
- twelfth, the potential for wholesale development through backward linkage is estimated by selecting those large market sales projections by retail category and comparing them to the range of size by sales for wholesale operations in the wider Roxbury and bordering communities. If these market sales projected are a large fraction of the total sales of these wholesale operations, then these wholesale operations appear to be good prospects for further analysis to determine their feasibility. (This requires, in particular, an estimate of retail purchases by category of wholesale goods.).

We now turn to the definition of the Dudley Square trading area.

#### Dudley Square Commercial Trade Area

The trade area is differentiated into a primary area, where most shoppers per resident come from (i.e., Roxbury North and black Roxbury West) and a secondary area, where fewer shoppers per resident come from. The neighborhoods of the secondary area are those that immediately bound the primary trade area (i.e., black South End, Roxbury West, Roxbury West, Roxbury South, Over Sample Area North and Over Sample Area South). Only predominatly black neighborhoods are included (therefore, white South End and white Roxbury West are excluded). Outside of the bounds of the secondary area, there are few Dudley Square shoppers. Therefore, no tertiary area is defined. The boundary of the secondary area is further defined so that there is no competition with the other Roxbury community scale commercial centers of Uphams Corner and Grove Hall (therefore, much of Over Sample Area South is excluded).

The primary trade areaof the Dudley Square Commercial Area is defined as:

- public housing: Orchard Park Project, Mission Hill Extension, Whittier St. Projects, Lenox-Camden Projects;
- (2) public subsidized housing (Roxbury): Warren Gardens; Marksdale, Lower Roxbury Community Corporation, and Roxbury Action Program, et.al.;
- (3) public subsidized housing (South End): ROXSE), Camfield Gardens, Grant AME, et.al.; and,

(4) private single-family housing: southeast of Circle, Inc. With the exception of the Whittier St. and Mission Hill Extension Projects, all these housing areas lie within the conventional halfa-mile radius of Dudley Square.

The secondary trade area of the Dudley Square Commercial Area is defined as:

- public subsidized housing (Roxbury): Academy Homes, Charlame;
- (2) public subsidized housing (South End): Tenants Development Corporation, South End Community Development, et.al.;
- (3) private housing (Fenway): near Northeastern University;
- (4) private housing (North Dorchester): west of the PennCentral Railroad tracks;
- (5) private housing (Roxbury): between Warren Street and Blue Hill Ave. south of Dunreath and Moreland Sts.;

All these housing areas lie within the conventional half-a-mile to a mile radius of Dudley Square.

The tertiary trade area of the Dudley Square Commercial Area is insignificant. (See Map III.1 for the trade area definition by Census Tracts).

This definition of the trade areaagrees well with the results of the Circle Special Mobility Study.

# Table III.1Distribution of Patronage of Major Grocery StoresAmong Areas(greater than 2%)

|          | SoEnd    | RoxNo   | RoxW   | RoxSo    | $\overline{JP}$ | <u>OANo</u> | <u>OASo</u> | <u>NoDorNo</u> | Mat |
|----------|----------|---------|--------|----------|-----------------|-------------|-------------|----------------|-----|
| Blair's  | 9        | 34      | 13     | 17       | -               | 14          | -           | 9              | -   |
| SOURCE : | Circle : | Special | Mobili | ty Study | , вт            | PR, 19      | 72          |                |     |

If most of the patronage from Roxbury West is from the Mission Hill Extension and Whittier Street Projects, then the sum of Roxbury North and Roxbury West is just a little larger than our defined primary trade area. Therefore, about 47% of the patronage is from the primary trade area. The remaining areas of South End, Roxbury South, Over Sample Area North, and North Dorchester North are all areas within our defined secondary trade area. Therefore, about 49% of the patronage is from the secondary trade area. The last three areas of Jamaica Plain, Over Sample Area South and Mattapan are areas in our "defined" tertiary trade area. Therefore, about 4% of the patronage is from the tertiary trade area.

To demonstrate the difference between the two trade areas, the population count of the two areas compiled in the next section shows that the primary trade area contains only 33% of the total population, while the secondary trade area contains 67%. Therefore, the primary trade area is twice as dense in shoppers (47/33=1.4) as the secondary trade area (49/67=.73).


The primary change in the population and income of the trade area over the last and the future decade is the result of the demolition and new construction of low and moderate income housing under the urban renewal program. The effect of this housing is as follows:

> Table III.2 New Construction Under Urban Renewal (as of 1970)

Washington Park Urban Renewal Project (north of Townsend St.)

Marksdale I 82 dwelling units completed Charlame I 92 d u ... Marksdale II 84 d u 11 Marksdale III 12 d u 11 Charlame II 38 d u Warren Gardens 228 d u 11 St. Joseph's 136 d u

Campus High School Project: Lower Roxbury Community Corporation

| Smith House | 132 | d | u |  |
|-------------|-----|---|---|--|
| Hayes House | 131 | d | u |  |
| Town Houses | 120 | d | u |  |

Roxbury Action Program

| Rap, Inc.  | 17 d u  | underway                           |
|------------|---------|------------------------------------|
| Rap-Up I   | 33 d u  | planned                            |
| Rap-Up IIA | 140 d u | - 11                               |
| Rap-Up IIB | 51 d u  | п                                  |
| Rap-Up III | 96 d u  | (to be redesigned to increase d u) |

underway

South End Urban Renewal Project (south of West Newton St.)

| Camfield Gardens   | 136 | d | u | н       |
|--------------------|-----|---|---|---------|
| ROXSE              | 364 | d | u | 11      |
| Brightmore Terrace | 3   |   |   |         |
| (Grant AME)        | 180 | đ | u | 11      |
| Westminister and   |     |   |   |         |
| Willard Place      | 270 | d | u | "       |
| Mass Housing       | 44  | đ | u | "       |
| Headstart Housing  | 145 | đ | u | planned |
| South End Building | ſ   |   |   | -       |
| Systems            | 62  | d | u | planned |
| Kenwood Developmer | nt  |   |   | _       |
| Corporation -      | 16  | d | u |         |

SOURCES: Washington Park Urban Renewal Project Final Report LRCC, RAP design programs. Housing in the So. End, BRA April 1, 1974

Or, to put this another way, we have:

### Table III.3 Effect of Subsidized Federal Housing on Population

|                   | 1970   | <u>1900</u>            |
|-------------------|--------|------------------------|
| South End (700's) | -      | 1226(1 du=1 household) |
| Roxbury (800's)   | 308 du | 953                    |

SOURCES:

Washington Park Urban Renewal Project Final Report, LRCC, RAP design programs. <u>Housing in the South End</u>, BRA April 1, 1974 Therefore, the 1970-1980 effect of the new construction of subsidized housing in the South End is an increase of 1226 dwelling units, and in Roxbury is an increase of 845 dwelling units. Further, North Dorchester, Parker Hill Fenway and the Black Mission Hill received no public housing investment funds for new construction. Trading Area Projections

Three major futures are forecasted: pessimistic, moderate and optimistic. These are: "Core Decline" based on the decline of the Central Business District and the ending of the Federal low-income housing production program: "Trends Extended" based on the steady state of the Central Business District and the completion of federal housing projects now planned; and "Core Intensive" based on the building and business boom of the Central Business District and the startup of the federal housing subsidy programs with housing allowances tied to housing production.

The future projections were made on a ten year forecast from 1970 figures, since Roxbury doubled to its present size in the ten years before 1970. Readjusted future projects should be made on another ten year basis in 1980 with the new Census Data.

Potential investment may occur as early as 1977, if Circle decides not to wait for the construction of the new transit station, or as late as 1986 (if not later), if Circle decides to

wait and the construction is on time. If no updated Census Data is available, then the ten year forecasts should be interpolated or extrapolated.

To make each forecast; a constant factor is derived to multiply the base figures for 1970. Each factor is based on assumptions for each future. The equivalent zip codes are in parentheses below.

The assumptions of the population projections follows:

(1) 1980 Decline: Back Bay (100's) is the most sensitive community to CBD growth and decline. The BTPR used the average of 5% for its ten year projections. This figure was adopted for the decline projection. South End (700's) is one of the two most sensitive communities to Federal housing subsidy policy. The South End urban renewal project has completed only 1003 dwelling units to date. Only these units were considered as increasing the South End population. (1003/6519=15.4%). Factors decreasing the population were an additional 10% vacancy rate in both the newly constructed subsidized housing and in the existing public housing (15-10=5%). Roxbury (800's) is the other sensitive community to Federal housing subsidy policy. Roxbury complete housing is only 857 dwelling units. Only these were considered as increasing the Roxbury population (857/31,327= 2.7%). Migration was considered as negative for the first time in a decade. The vacancy rate increased at an assumed 5%, resulting in a decrease in population (2%-5%=3%). North Dorchester is the most sensitive community to intracommunity migration (post-urban renewal). North Dorchester was assumed to increase slightly in Black population to

- 94 -

The result of these projections produces the following matrix of likely futures.

|   |                                |                                  | Tal                           | bleIII.                      | , 4                          |                              |                              |                          |                          |
|---|--------------------------------|----------------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------|--------------------------|
|   | Population                     | and Income                       | Proje                         | ctions                       | Under                        | Varying                      | Assumpt                      | ions                     |                          |
| Primary   | Trade Area                     | Pop.                             | #fam                          | less<br>2999                 | 3000<br>5999                 | 6000<br>8999                 | 9000<br>11999                | 12,000<br>14,999         | 15,000<br>Over           |
| 1970<br>1980 Dec<br>1980 Tre                        | cline<br>ends                  | 17393<br>17010                   | 3884<br>1798                  | 915<br>895                   | 1258<br>1230                 | 721<br>705                   | 507<br>496                   | 254<br>248               | 229<br>224               |
| Extend<br>1980 Int                                  | led<br>censive                 | 17482<br>17917                   | 3904<br>4006                  | 920<br>942                   | 1264<br>1296                 | 725<br>743                   | 510<br>527                   | 255<br>262               | 230<br>236               |
| Secondary 1   | rade Area                      |                                  |                               |                              |                              |                              |                              |                          |                          |
| 1970<br>1980 Dec<br>1980 Tre<br>Extende<br>1980 Int | cline<br>ends<br>ed<br>censive | 32736<br>34774<br>36843<br>43001 | 5905<br>5476<br>6035<br>6711  | 1019<br>986<br>1040<br>1129  | 1691<br>1411<br>1734<br>1944 | 1340<br>1292<br>1370<br>1526 | 885<br>854<br>901<br>1005    | 497<br>480<br>507<br>567 | 473<br>453<br>483<br>540 |
| 1970<br>1980 Dec<br>1980 Tre<br>Extende<br>1980 Int | cline<br>nds<br>d<br>.ensive   | 53131<br>51784<br>54325<br>60918 | 9789<br>9274<br>9939<br>L0717 | 1934<br>1881<br>1960<br>2071 | 2949<br>2641<br>2998<br>3240 | 2061<br>1997<br>2095<br>2269 | 1392<br>1350<br>1411<br>1532 | 751<br>728<br>762<br>829 | 702<br>677<br>713<br>776 |

SOURCE:

United Community Services, 1970 Census of Population and Housing Summary Data, UCS, Research Department, 14 Somerset St., Boston, 1971

With these population forecasts, we can now estimate the total disposable income by each neighborhood (i.e., by census tract). The Bureau of Labor Statistics survey of consumption expenditure patterns in cities (1961-1962) provides a set of factors of expenditure for retail category by income. These factors are presented in Table III.5.

(Note that while the Bureau of Labor Statistics has updated its consumption survey in 1972, the results of that survey are still under analysis. No BLS publication of these findings are expected until 1975-1976.)

- (2) <u>1980 Trends Extended</u>: Back Bay is assumed to shift to condominiums, with a growth rate of 5%. South End remains constant in the completion of low-income and moderate income housing, but the vacancy rate decreases. Roxbury remains fixed in the completion of low and moderate income housing. The vacancy rate decreases by 4%. North Dorchester also decreases its vacancy rate 1%.
- (3) <u>1980 Core Intensive</u>: Back Bay is assumed to shift to both condominiums and to high-rise apartment construction. The growth rate hits 11%.

South End achieves completion of all urban renewal projects under processing and planned (1226/6519 = 18.8%). Housing allowances are introduced and induce a low 1% rehabilitation rate of vacant structures.

Roxbury suceeds in completion of the RAP-UP later phased projects (97/31,327 = 0.3%). Housing allowances are introduced and used to fund rehabilitation of vacant structures provided by Boston's urban homesteading program. (+2%) North Dorchester takes advantage of a newly created 7 year rehabilitation construction/mortgage finance profr m of the state (3%). Some increased density of Black population is developed from some moderate influx of Blacks.

# - 95

# Table III.5 Retail Category Expenditure Factors by Income

| Retail Categories                  | Aver-<br>age | Under<br>\$3000 | 3000-<br>\$5999 | 6000-<br><u>\$8999</u> | 9000-<br><u>11999</u> | 12000 <b>-</b><br>14999 | 15000<br>and + |
|------------------------------------|--------------|-----------------|-----------------|------------------------|-----------------------|-------------------------|----------------|
| Convenience Goods                  |              |                 |                 |                        |                       |                         |                |
| Drug Stores                        |              |                 |                 |                        |                       |                         |                |
| Pharmaceutical drug stores         | 0.97         | 1.48            | 1.19            | 0.93                   | 0.84                  | 0.67                    | 0.42           |
| Drug stores w traditional lines    | 1.78         | 2.71            | 2.37            | 1.71                   | 1.47                  | 1.23                    | 0.77           |
| Self-service, multi-line drug      | -            |                 |                 |                        |                       |                         |                |
| stores (excluding liquor)          | 2.90         | 4.42            | 3.55            | 2.75                   | 2.40                  | 1.99                    | 1.25           |
| Supermarkets and Food Stores       |              |                 |                 |                        |                       |                         |                |
| Supermarkets w limited nonfoods    | 12.69        | 21.45           | 15.57           | 12.67                  | 10.72                 | 8.83                    | 5.58           |
| Supermarkets with expanded         |              |                 |                 |                        | •                     |                         |                |
| nonfoods                           | 15.23        | 25.74           | 18.68           | 15.21                  | 12.87                 | 10.59                   | 6.70           |
| Discount supermarkets with         |              |                 |                 |                        |                       |                         |                |
| expanded nonfoods                  | 15.74        | 26.60           | 19 <b>.3</b> 1  | 15.72                  | 13.32                 | 10.95                   | 6.93           |
| Specialty Food Stores              |              |                 |                 |                        |                       |                         |                |
| Delicatessens (fast foods)         | 0.80         | 1.35            | 0.98            | 0.80                   | 0.71                  | 0.56                    | 0.35           |
| Neat markets                       | 0 70         | 1.19            | 0.86            | 0.70                   | 0.50                  | 0.50                    | 0 31           |
| Fish and saafood markets           | 0.06         | 0 10            | 0.07            | 0.06                   | 0.06                  | 0.05                    | 0.03           |
| Empit stones resotable markets     | 0.00         | 0.10            | 0.19            | 0.16                   | 0.13                  | 0.10                    | 0.07           |
| fiult stores, vegetable markets    | 0.11         | 0.20            | 0.10            | 0.10                   | 0.10                  | 0.10                    | 0.07           |
| Dahay, nut, confectionery stores   | 0.11         | 0.19            | 0.14            | 0.11                   | 0.10                  | 0.07                    | 0.05           |
| Dakeries                           | ر2.0         | 0.39            | 0.20            | و2.0                   | 0.20                  | 0.10                    | 0.10           |
| Liquor stores                      | 1.08         | 1.02            | 1.17            | 1.11                   | 1.07                  | 1.02                    | 0.78           |
| Hardware Stores                    |              |                 |                 |                        |                       |                         |                |
| Hardware stores w limited lines    |              |                 |                 |                        |                       |                         |                |
| (traditional)                      | 0.55         | 0.54            | 0.61            | 0.59                   | 0.53                  | 0.48                    | 0.37           |
| Multi-line hardware stores         |              |                 |                 | -                      |                       |                         |                |
| (but not including extensive plum  | 5            |                 |                 |                        |                       |                         |                |
| -ing, heating, and lumber supplies | s)0.72       | 0.71            | 0.79            | 0.77                   | 0.70                  | 0.63                    | 0.49           |
| ,,                                 |              | •               |                 |                        | •                     | -                       | -              |
| <u>Convenience</u> Services        | o <b>o</b> o | a 1.0           | 0 4 7           |                        | 0.01                  | 0.00                    | 0 10           |
| Barber shops                       | 0.38         | 0.48            | 0.45            | 0.40                   | 0.34                  | 0.28                    | 0.18           |
| Beauty shops                       | 0.55         | 0.77            | 0.60            | 0.50                   | 0.53                  | 0.54                    | 0.42           |
| Dry cleaners                       | 0.33         | 0.50            | 0.40            | 0.30                   | 0.29                  | 0.28                    | 0.25           |
| Laundromats (washing, drying only  | ;            |                 |                 |                        |                       |                         |                |
| no dry cleaning)                   | 0.22         | 0.33            | 0.27            | 0.20                   | 0.20                  | 0.19                    | 0.17           |
| Shoe repair shops                  | 0.07         | 0.11            | 0.08            | 0.06                   | 0.06                  | 0.06                    | 0.05           |
| Primary Shoppers Goods             |              |                 |                 |                        |                       |                         |                |
| General Merchandise Stores         |              |                 |                 |                        |                       |                         |                |
| Full-line traditional department   |              |                 |                 |                        |                       |                         |                |
| stores                             | 7.00         | 6.65            | 7.34            | 7.18                   | 7.18                  | 6.80                    | 5.46           |
| Limited-line traditional depart-   |              |                 |                 |                        |                       |                         |                |
| ment stores emphasizing soft go    | od5.08       | 4.83            | 5.33            | 5.21                   | 5.21                  | 4.95                    | 3.96           |
| Full-line discount department      |              |                 |                 |                        | -                     |                         |                |
| stores                             | 6.74         | 6.40            | 7.07            | 6.85                   | 6.87                  | 6.49                    | 5.26           |
| Limited-line discount department   |              |                 |                 |                        |                       | -                       |                |
| stores                             | 5.21         | 4.95            | 5.47            | 5.35                   | 5.36                  | 5.06                    | 4.06           |
| Full-line traditional variety      |              |                 | 2 - 1           |                        |                       |                         |                |
| stones w limited eppendi           | 1.00         | 1.04            | 1.15            | 1.15                   | 1.12                  | 1.05                    | 0.85           |
| Super veriety stores with evened   | re∩<br>ad    |                 |                 | <b>مر</b> .د. • .د.    |                       |                         |                |
| Super variety Stores with expande  | 1 26         | 1 20            | 1 112           | 1 40                   | 1.40                  | 1.32                    | 1.06           |
| apparer                            | ∪ر •⊥        | 7.052           | エ・ギノ            | T • -40                | T • 40                | ~~ • • ~                | <b></b>        |

|                                  |       | - 96 ·        |               |               |       |        |         |
|----------------------------------|-------|---------------|---------------|---------------|-------|--------|---------|
|                                  | Aver- | Under         | 3000-         | 6000-         | 9000- | 12000- | 15000   |
| <u>metail Categories</u>         | age   | <u>\$3000</u> | <u>\$5999</u> | <u>\$8999</u> | 11999 | 14999  | and $+$ |
| Variety stores, limited price    |       |               |               |               |       |        |         |
| and limited lines                | 0.81  | 0.77          | 0.85          | 0.83          | 0.83  | 0.79   | 0.63    |
| Major Apparel Stores             |       |               |               |               |       |        |         |
| Men's clothing and furnishings   |       |               |               |               |       |        |         |
| stores                           | 0.61  | 0.45          | 0.63          | 0.63          | 0.63  | 0.60   | 0.54    |
| Women's clothing and furnishings |       |               |               |               |       |        |         |
| stores                           | 1.21  | 1.48          | 1.28          | 1.14          | 1.22  | 1.22   | 1.06    |
| Children's and infants' clothing |       |               |               |               |       |        |         |
| stores                           | 0.10  | 0.12          | 0.11          | 0.09          | 0.10  | 0.11   | 0.09    |
| Family clothing stores           | 0.59  | 0.48          | 0.62          | 0.65          | 0.61  | 0.52   | 0.34    |
| Women's shoe stores              | 0.51  | 0.57          | 0.53          | 0.52          | 0.52  | 0.50   | 0.36    |
| Men's and boys' shoe stores      | 0.40  | 0.30          | 0.41          | 0.42          | 0.41  | 0.39   | 0.35    |
| Family shoe stores               | 0.37  | 0.35          | 0.39          | 0.38          | 0.38  | 0.36   | 0.29    |
| Other Specialty Stores           |       |               |               |               |       |        |         |
| Book and Stationery stores       | 0.16  | 0.17          | 0.16          | 0.17          | 0.16  | 0.15   | 0.13    |
| Camera and photographic supply   |       |               |               |               |       |        |         |
| stores                           | 80.0  | 0.09          | 80.0          | 0.08          | 80.0  | 0.08   | 0.07    |
| Cigar stores and stands          | 0.06  | 0.06          | 0.07          | 0.06          | 0.06  | 0.06   | 0.04    |
| Gift, novelty and souvenir shops | 0.09  | 0.10          | 0.09          | 0.09          | 0.09  | 0.09   | 0.07    |
| Hosiery and lingerie shops       | 0.12  | 0.10          | 0.13          | 0.13          | 0.13  | 0.11   | 0.07    |
| Jewelry stores                   | 0.34  | 0.38          | 0.36          | 0.35          | 0.35  | 0.33   | 0.24    |
| Luggage and leather goods store  | 0.02  | 0.02          | 0.02          | 0.02          | 0.02  | 0.02   | 0.02    |
| Millinery shops                  | 0.03  | 0.02          | 0.03          | 0.03          | 0.03  | 0.03   | 0.02    |
| Music stores/                    | 0.16  | 0.17          | 0.16          | 0.17          | 0.16  | 0.15   | 0.13    |
| Sporting goods stores            | 0.15  | 0.16          | 0.15          | 0.16          | 0.15  | 0.14   | 0.12    |
| Florist shops                    | 0.17  | 0.18          | 0.17          | 0.18          | 0.17  | 0.17   | 0.14    |
| Optical goods stores             | 0.12  | 0.13          | 0.12          | 0.13          | 0.12  | 0.12   | 0.10    |
| Toy and hobby stores             | 0.06  | 0.06          | 0.06          | 0.06          | 0.06  | 0.06   | 0.05    |
| Secondary Shoppers Goods         |       |               |               |               |       |        |         |
| Furniture and household furnish- |       |               |               |               |       |        |         |
| ings stores                      | 1.24  | 1.01          | 1.42          | 1.31          | 1.25  | 1.08   | 0.73    |
| Household appliances, television |       |               | •             |               |       |        |         |
| and radio stores                 | 1.00  | 1.02          | 1.21          | 1.14          | 0.87  | 0.65   | 0.52    |
| Floor coverings stores           | 0.21  | 0.23          | 0.21          | 0.22          | 0.21  | 0.21   | 0.17    |
| Passenger car dealers            | 3.76  | 10.37         | 10.30         | 9.60          | 8.59  | 7.21   | 4.29    |
| Tire, battery and accessory      |       |               |               |               |       |        |         |
| stores                           | 0.47  | 0.56          | 0.56          | 0.51          | 0.46  | 0.39   | 0.23    |
| Paint, glass and wallpaper       |       |               |               |               |       |        |         |
| stores                           | 0.19  | 0.19          | 0.21          | 0.21          | 0.19  | 0.17   | 0.13    |
| Other Goods and Services         |       |               |               |               |       |        |         |
| Gasoline service stations, with  |       |               |               |               |       |        |         |
| 1imited accessories              | 3.94  | 4.83          | 4.80          | 4.40          | 3.73  | 3.02   | 1.54    |
| Eating and drinking places       | 3.01  | 4.00          | 3.20          | 2.89          | 3.01  | 2.91   | 2.41    |
|                                  |       |               |               |               |       |        |         |

Source: Bureau of Labor Statistics, 1961 Consumer Survey, U. S. Dept.of Labor

We multiply the projections by the factors of consumption expenditure to get the disposable income by trade area:

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|   |  |                                    | Table                              | III.6                              |                                    |                                    |   |
|---|--|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|---|
|   | Disposable                             | Income                             | Projection                         | ns Under                           | Varying As                         | sumptions                          |   |
|   | under<br>\$2999                        | \$3000<br>5999                     | (in 000's<br>\$6000<br><u>8999</u> | of 1970<br>\$9000<br>11999         | \$s)<br>\$12000<br>14999           | \$15000<br>                        | TOTAL                                   |
| Primary Tr                                | ade Area:                              |                                    |                                    |                                    |                                    |                                    |   |
| 1970<br>1980 Decl<br>1980 Ext<br>1980 Int | \$1372<br>1372<br>1380<br>1413         | \$5661<br>5535<br>5688<br>5832     | \$5407<br>5287<br>5437<br>5572     | \$5323<br>5208<br>5355<br>5533     | \$3429<br>3348<br>3442<br>3537     | \$4007<br>3920<br>4025<br>4130     | 22,001<br>24,671<br>25,328<br>26,018    |
| Secondary                                 | Trade Area:                            |                                    |                                    |                                    |                                    |                                    |   |
| 1970<br>1980 Decl<br>1980 Ext<br>1980 Int | \$2901<br>2821<br>2940<br>3106         | \$13270<br>11884<br>13491<br>14500 | \$15457<br>14977<br>15713<br>17017 | \$14616<br>14175<br>14815<br>16086 | \$10138<br>9828<br>10287<br>11191  | \$12285<br>11847<br>12477<br>13580 | \$68,668<br>65,534<br>69,724<br>89,061  |
| Sub Total:                                |  |                                    |                                    |                                    |                                    |                                    |   |
| 1970<br>1980 Decl<br>1980 Ext<br>1980 Int | \$4273<br>4194<br>4320<br>4519         | \$18931<br>17419<br>19179<br>20332 | \$10865<br>20265<br>21150<br>22590 | \$19939<br>19383<br>20170<br>21619 | \$13567<br>13176<br>13729<br>14728 | \$16292<br>15767<br>16502<br>17710 | \$93,869<br>80,204<br>95,052<br>101,499 |
| Total:                                    |  |                                    |                                    |                                    |                                    |                                    |   |
| 1970<br>1980 Decl<br>1980 Ext<br>1980 Int | \$68,668<br>65,534<br>69,724<br>75,561 |                                    |                                    |                                    |                                    |                                    |   |

SOURCE: United Community Services, <u>1970</u> Census of Population and Housing Summary Data, UCS, Research Dept., Boston, 1971

> The total disposable income decreases by 4.6% for the 1980 Core Decline projection; it increases by 1.5% for the 1980 Trends Extended projection; and, it increases by 10.0% for the 1980 Core Intensive projection.

#### The Market Segmentation of the Trading Area

The racial distribution of the trade area is as follows:

- 97 -

|  |                           | ble III.7                     | 3 - (1970)               |   |
|--|---------------------------|-------------------------------|--------------------------|---|
| <u>Rā</u>                                | ICIAL DISTRIBUT           | Ton of Trade                  | Alea (1970)              | % of  |
| Community                                | Population                | Black                         | White                    | Black   |
| Primary Trade Area                       |                           |                               | л.                       |   |
| Roxbury                                  | 17,395                    | 13,944                        | 3,192                    | 80.2  |
| Secondary Trade Area                     | <u>L</u>                  |                               |                          |   |
| Back Bay<br>South End<br>Mission Hill/   | 15,739<br>6,519           | 1,993<br>3,942                | 13,315<br>2,296          | 12.7  |
| Parker Hill<br>No Dorchester<br>Subtotal | 13,932<br>2,602<br>38,792 | 9,908<br><u>956</u><br>16,799 | 3,779<br>1,547<br>20,964 | $   \begin{array}{r}     71.1 \\     36.7 \\     \underline{43.3}   \end{array} $ |
| ጥርጥልፕ.                                   | 56,187                    | 30,743                        | 24.156                   | 54.7  |

SOURCE:

SOURCE:

United Community Services, <u>1970</u> Census of Population and Housing Summary Data, UCS Research Dept., Boston, 1971

In the secondary trade area, 40.6% of its population is less than 13% Black; 47.2% has less than 37% Black. The secondary trade area as a whole, has only 43.3% Black population, compared to 80.2% Black population of the primary trade area. This is a difference of factor 2.

|   | <u>Age</u> D                        | istributio                           | on of Trad                             | le Area (1                              | .970)                         | ۶ of                         | ° a f   |
|---|-------------------------------------|--------------------------------------|--|---|-------------------------------|------------------------------|---|
| Primary Trade                                     | Pop.                                | under                                | 6-20                                   | 21-64                                   | <u>64+</u>                    | 21-64                        | $\frac{64}{64}$ +   |
| Roxbury   | 17,395                              | 2547                                 | 5727                                   | 7167                                    | 4286                          | 41.2                         | 11.2  |
| Secondary Trade                                   |                                     |                                      |  |   |                               |                              |   |
| Back Bay<br>South End<br>Mission Hill/            | 15,739<br>6,519                     | 426<br>455                           | 6715<br>1075                           | 7013<br>4082                            | 1578<br>907                   | 44.6<br>62.6                 | 10.0<br>13.9  |
| Parker Hill<br>No Dorchester<br>subtotal<br>TOTAL | 13,932<br>2,602<br>38,782<br>56,177 | 1766<br><u>367</u><br>3,014<br>5,561 | 3926<br><u>772</u><br>12,488<br>18,215 | 6714<br><u>1188</u><br>16,621<br>23,788 | 1526<br>275<br>4,286<br>6,236 | 48.2<br>45.7<br>42.9<br>42.3 | $   \begin{array}{r}     11.0 \\     \underline{10.6} \\     11.1 \\     11.1   \end{array} $ |

United Community Services, <u>1970 Census of Population and</u> Housing Summary Data, UCS Research Dept., Boston, 1971

The neighborhoods within the trade area are remarkably constant over age distribution, with the exception of the South End. This latter neighborhood has relatively more adults vs. an average of 42.3% for the whole trade area.

mary trade area has almost the same age distribution as the secondary trade area, with 41.2% adults, 11.1% elderly vs. 42.9% adult and 11.1% elderly, respectively.

The pri-

## The Similarity of Black and White Consumption Patterns

A market survey made in Roxbury in 1967 developed a composite consumer expenditure pattern by race, (i.e., for blacks) but not by income:

| Roxbury Consumer Expenditure Distributi   | lon  |             |
|---|--|-------------|
| Food<br>Eating & Drinking Establishments<br>Drugs<br>Furniture & Appliances             | 20.0<br>5.0<br>2.5<br>3.0  |             |
| Automobile<br>Automobile Services<br>Apparel<br>Shoes                                   | 7.5<br>3.5<br>4.0<br>2.0   |             |
| Hardware, Building Materials<br>General Merchandise<br>Other Goods and Services<br>Rent | $   \begin{array}{r}     2.5 \\     10.0 \\     \underline{5.0} \\     \overline{20}   \end{array} $ | 658         |
| Taxes, Savings, Etc.<br>TOTAL   |  | 358<br>1008 |

Table III.10

SOURCE:

Miller, Melvin, <u>Consumer Attitudes and Practices Survey</u>, Urban Research Inc., Boston, 1969. Market Statistisc, Inc., <u>Arithmetics</u> of Negro Spending, Bernard Howard Co., 1964. 32

This expenditure pattern, however, fails to break down retail categories into well-defined retail stores suitable for a market feasibility study.

A more detailed consumer expenditure pattern for urban families was calculated from a national survey of urban families in all major cities by the Bureau of Labor Statistics in 1962. The results of this consumer expenditure pattern vary according to income but not race ,

(see Table III.5).<sup>33</sup>

<sup>&</sup>lt;sup>132</sup>Miller, Melvin, <u>Center City Business and Investment Opportunities</u> in Central Boston, Urban Research, inc., Roxbury, Mass, Sept 1973

<sup>33</sup>This analysis should be rechecked with the results of that 1972 survey.

For a given income, black and white consumption patterns are similar. The median household income of Roxbury in 1967 in the Center City Profile was \$4,672 per year. Compare this with the consumer expenditure factors of the \$3000-\$5,999 income bracket of the Bureau of Labor Statistics survey. Variance of consumer expenditures due to race can be almost completely explained by variance due to income alone.

(Black and white consumption patterns <u>do</u> vary, but we are assuming that they vary by too little to make a substantial difference in our analysis.)

## Current Market Penetration of Retail Consumption in the Trade Area

The market share of Dudley Square business in the retail sector of the trade area of Dudley Square is calculated using data from the Dun and Bradstreet's Market Indicators (see Table III.10). "Market share" is defined as the ration of present sales of a given business or set of businesses over the total sales for all businesses (here estimated as total retail expenditures) in a given industrial category (here retail). The set of business are those located in Dudley Square commercial area. The retail categories with the most market share of local businesses have the least potential for new investment (see Appendix I-9 for a list of overcrowded or nearly fully penetrated retail categories). These retail categories are ignored. The retail categories with the least market share have the greatest potential for new investment. These high potential stores include: supermarkets and food stores at .28 market share; drug stores at .27 market share; junior department stores at .10 market share, gasoline service stations at .06 market share; and passenger car dealers at .01 market share. Two others have potential, but no information: hardware stores(.18) & specialty(.11).

- 100 -

Table III.1 Dudley Square Market Share of Retail Consumption by BLS Code Sales Market Potential<sup>2</sup> Share Sales1 Retail Category Drug Stores 600,000 2,247,373 0.27 Supermarkets and Food Stores 3030,000 9,717,175 0.31 Specialty Food Stores<sup>3</sup> 0.11 144,045 1,277,189 Meat and fish and seafood 50,000 472,739 0.11 markets Fruit stores and vegetable markets<sup>4</sup> 94,045 94,045 1.00 Candy, hut and confectionery 69,269 stores 0.0 142,418 Bakeries 0.0 498,718 (Delicatessens 0.0) Liquor 700,000 715,350 0.98 83,400 473,017 Hardware Stores 0.18 Convenience Services 1,007,088 0.00 7,000 5,058,645 0.001 Primary Shopper Goods 7,000 4,513,907 Full-line discount department 0.002 stores Limited-line discount department stores. 7,000 3,508,857 0.002 Variety stores, limited price 544,738 0.0 and limited lines Major Apparel Stores 1,627,354 2,134,668 0.71 Men's clothing and furn-415,201 415,201 1.00 ishings stores Women's clothing and furnishings stores 534,400 825,018 0.65 Children's and infants' wear 69,133 0.0 stores 377,753 377,7.53 1.00 Family clothing stores Women's, men's and boy's shoe stores 300,000 717,563 0.42 175,667 1,048,239 0.17 Other Specialty Stores Book and stationery stores 106,413 0.0 Camera and photographic 54,246 0.0 supply stores 40,257 0.0 Cigar stores and stands Gift, novelty and souvenir 54,000 0.90 59,910 shops 229,087 0.49 111,667 Jewelry stores Luggage and leather stores 13,947 0.0 1.0 Millinery shops 19;171 19,171 0.92 Music stores 10,000 107,502 100,602 0.0 Sporting goods stores -115,417 0.0 Florists ----82,158 0.0 Optical goods stores 40,159 ----Toy and hobby stores 0.0 ----Hosiery and lingerie shops 79,365 0.0

-101 -

| Retail Category   | Sales   | Sales<br>Potential                                    | Market<br>Share                      |  |
|---|---|---|--------------------------------------|--|
| Household appliance, tele-<br>vision & radio stores<br>Floor covering stores<br>Passenger car dealers<br>Tire, battery, & accessorie<br>Paint, glass & wallpaper st | 275,000<br>50,000<br>40,000<br>es 159,000<br>core 127,404 | 626,224<br>142,069<br>5,691,359<br>305,832<br>127,404 | 0.44<br>0.35<br>0.007<br>0.52<br>1.0 |  |
| Other Goods & Services<br>Gasoline service stations<br>w limited accessories<br>Eating & drinking places  | 140,000<br>1,365,000                                      | 2,439,361<br>1,957,749                                | 0.06<br>0.70                         |  |
| Miscellaneous retail stores<br>not elsewhere classified   | 230,000   |   |                                      |  |
| TOTAL   | 13,656,511  | 6,770,876   | .243                                 |  |

- 102 -

SOURCE: Market Indicators, Dun & Bradstreet, Dec., 1973 Summary

- 1. Sales figures are from the Dun & Bradstreet <u>Market Identifiers</u>, Dec., 1973. All retail categories with a total sales of businesses of that category exceeding that of the sales potential within the trade area are listed only at 100% market share.
- 2. Sales potential figures are interpolated between the 1970 and the 1980 Trends Extended Estimate.
- 3. This is the total market share.

### Characteristics of Present Grocery Store Patronage: The Neglected Market Segments

Let us define the income brackets as: "very poor" under \$3000 per

year: "moderate" between \$3000/year - \$9999/year; and "middle class"

over \$10,000/year.

The income distribution of grocery store patronage follows:

|                |            | Т         | able II | I.I2              |                   |        |
|----------------|------------|-----------|---------|-------------------|-------------------|--------|
|                | Income D:  | istributī | on of M | ajor Store Pat    | tronage           |        |
|                | (as        | a perce   | ntage o | f each store)     |                   |        |
|                | Under      | \$3000    | \$6000  | \$10 <b>,</b> 000 | \$15 <b>,</b> 000 | No     |
| Stores         | \$3000     | 5999      | 9999    | 14,999            | and +             | Answer |
| Dudley Square  |            |           |         |                   |                   |        |
| Blair's        | 15         | 27        | 33      | 14                | 4                 | 6      |
| Finast         | 26         | 30        | 29      | 9                 | 1                 | 5      |
| Folsom's       | 27         | 29        | 32      | 6                 | 0                 | 6      |
| Average all 79 | str 21     | 22        | 25      | 16                | 8                 | 8      |
| SOURCE: Circ   | le Special | Mobility  | Study.  | BTPR.1972         |                   |        |

The results of the survey demonstrate that the major grocery stores of the trading area serve primarily the moderate income class of the trade area. Those major stores that do serve these extremes of income are outside the trade area.

Folsom's has the greatest percentage of poor patrons of all major Roxbury grocery stores at 27%. Folsom's also has the greatest percentage of moderate income patrons at 61%. Blair's has the lowest percentage of poor patrons at 15%. Supermarket has 20% of middle income patrons.

The racial composition of the patrons of the major stores of the Dudley Square area is as follows:

# Table III.13Racial Composition of Major Store Patronage

| Store    | White | Black | Cther | No Answer       |
|----------|-------|-------|-------|-----------------|
| Blair's  | 5     | 69    | 4     | 17              |
| Finast   |       | 99    | -     | 1,              |
| Folsom's | _     | 49    | 6     | 45 <sup>⊥</sup> |
| AVERAGE  | 35    | 53    | 5     | 6               |

SOURCE: Circle Special Mobility Study, BTPR, 1974

The survey demonstrates that Finast has the greatest black patronage at 99%, and Blair's at only 69%. Folsom's has only a 49% black patronage. Folsom's has a lower percentage of black patrons than the average of 53%, and a higher percentage of white patrons than the average of 35%. This is due to the large number of white patrons that live in this part of the South End.

The age distribution of major stores of the Dudley Square area is as follows:

<sup>1</sup> No explanation is given in the survey results for this high "no answer" result.

|          | Age Dist: |       |       |       |      |
|----------|-----------|-------|-------|-------|------|
| Store    | 17-24     | 25-34 | 35-54 | 55-64 | 64-+ |
| Blair's  | 13        | 30    | 36    | 8     | 14   |
| Finast   | 9         | 45    | 37    | 8     | 2    |
| Folsom's | 7         | 41    | 36    | 9     | 7    |
| Average  | 16        | 33    | 33    | 9     | 9    |

SOURCE: Circle Special Mobility Study, BTPR,1974. Blair's is the only store with a large elderly patronage at 22%.

No store has a large youth patronage. Both Finast and Folsom's have a large middle age patronage, the former at 82% and the latter at 77%.

Therefore, the key neglected market segments are the youth and the very poor. This should be key target market segments for a new shopping center.

# Projected Sales Potential Under Varying Assumptions

We can now project the 10 year spending forecas of the trading area. The projected disposable income (Table III.5) times the consumer expenditure factor (Table III.9) yields the projected retail expenditure for each category (Table III.15). These projections are based on the three alternative futures of Roxbury.

Next, we can estimate potential market penetration of each retail category based on past behavior.

Utilizing the present market share estimates of the Dudley Square trade area by BLS Code (see Table III.10) and by SIC Code (See Appendix), we estimate the sales potential of stores of like retail subsector of the same major retail grouping. The BLS market shares tend to produce lower estimates of potential market share than does the SIC market shares. The sales forecast is for store or stores. The results appear in Table III.15. - 105 - No pape 106

| Und  | er varying                                      | Assumptic                              | ons (in 198                         | <b>()</b>                           |
|--|---|--|-------------------------------------|-------------------------------------|
| Store  | Market<br>Share                                 | Core<br>Decline                        | Trends<br>Extended                  | Core<br>Intensive                   |
| Drug Stores  | .15<br>.11 (net)                                | 246,354<br>180,660                     | 263,586<br>193,296                  | 284,784<br>208,842                  |
| Supermarkets   | .17 (SIC)<br>.15 (SnS)<br>.11 (ret)             | 1,561,483<br>1,377,779<br>1,010,371    | 1,669,702<br>1,473,267<br>1,080,396 | 1,803,810<br>1,591,597<br>1,167,171 |
| Specialty Food Stores<br>Meat and fish Market            | .17 (SIC)<br>.11 (ret)                          | 45,082<br>28,689<br>7 124              | <b>48,</b> 206<br>30,676            | 52,078<br>33,141<br>8 319           |
| tionery<br>Bakeries                                      | .07(SIC)<br>.11(ret)<br>.07(SIC)                | 4,540<br>14,812<br>9,426               | 4,901<br>15,834<br>10,076           | 5,294<br>17,106<br>10,836           |
| Convenience Services                                     |   |  |                                     |                                     |
| Dry cleaners   | .115( <sup>‡</sup> Ret<br>.27 (ret)<br>.23(Ret) | ) 23,554<br>55,304<br>47,116           | 25,159<br>59,067<br>50,316          | 27,890<br>65,481<br>55,780          |
| Laundromats  | •115(疗Ret<br>•27(ret)<br>•23(Ret)               | ) 14,607<br>34,295<br>29,215           | 17,014<br>39,946<br>34,029          | 18,395<br>43,189<br>36,791          |
| Shoe repair  | .115( <del>]</del> Ret<br>.27(ret)<br>.23(Ret)  | ) <sup>1</sup> ,821<br>11,319<br>9,643 | 5,147<br>12,084<br>10,294           | 5,565<br>13,064<br>11,129           |
| Primary Shoppers Goods                                   | 1 c (sne)                                       | flip alia                              | (a) 070                             | 010 011                             |
| Department stores  | .115(1Ret<br>.23(Ret)                           | 042,243<br>)492,386<br>984,773         | 524,012<br>524,409<br>1,048,820     | 567,572<br>1,135,144                |
| Variety store  | •15 (sns)<br>•115(皇Ret<br>•23(Ret)              | 105,137<br>) 80,606<br>161,210         | 111,965<br>85,339<br>171,679        | 121,179<br>92,904<br>185,809        |
| Major Apparel Stores                                     |   | 15 086                                 | 16 050                              | 17 001                              |
| clothing stores  | .25(Ret)<br>.50<br>.71(ret)<br>.20(Aret)        | 15,088<br>32,795<br>46,569             | 10,039<br>34,911<br>49,513          | 37,807<br>53,685                    |
| Women S Shoe Stores                                      | .23(Ret)  | 74,165                                 | 78,973                              | 85,454                              |
| Men's and boys shoe<br>stores                            | .29(Aret)<br>.23(Ret)                           | 74,823<br>59,342                       | 79,052<br>63,172                    | 63,396                              |
| Other Specialty Stores<br>Books and stationery<br>stores | .09(lret)<br>.17(ret)                           | 9,1 <b>8</b> 9<br>17,357               | 9.779<br>18,471                     | 10,583<br>19,990                    |
| Camera and photographic<br>supply stores                 | .41(510)<br>.09(1ret)<br>.17(ret)<br>.41(SIC)   | 4,637<br>8,759<br>21,125               | 44,458<br>4,934<br>9,320<br>22,473  | 5,340<br>10,037<br>24,328           |
| Cigar stores and stands                                  | .17(ret)<br>.23(Ret)                            | 6,102<br>8,491                         | 6,917<br>9,358                      | 7,484<br>10,126                     |

# Table III.15 Projected Sales of Potential Retail Stores

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( Page 106 )

- 107 - no page 108

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|---------------------------------------|--|------------|--|--|
|                                       | Market   | Core       | Trends   | Core                                     |
| Store                                 | Share  | Decline    | Extended   | Intensivo                                |
| Hosieryand lingerie                   | .17 (ret)  | 12,797     | 13.637   | 14.757                                   |
| shops                                 | .23(Ret)   | 17,313     | 18,449   | 19,966                                   |
| Luggage and leather                   | .17(ret)   | 2.228      | 2.456  | 2,566                                    |
| goods stores                          | .23(Ret)   | 3.015      | 3,322  | 3,472                                    |
| Sporting goods stores                 | .17(ret)   | 16.242     | 17,286   | 18,707                                   |
|                                       | .23(Ret)   | 21,975     | 23.386   | 25,309                                   |
| Florists                              | .17(ret)   | 19,142     | 19,331   | 21,464                                   |
|                                       | .23(Ret)   | 25.898     | 26.830   | 29,039                                   |
| Optical goods stores                  | .17(ret)   | 13,269     | 14.117   | 15.279                                   |
|                                       | .23(Ret)   | 17,952     | 19.099   | 20.671                                   |
| Toy and hobby stores                  | .17(ret)   | 6,196      | 6.900  | 7.463                                    |
| •                                     | .23(Ret)   | 8,383      | 9,336  | 10.104                                   |
|                                       |  | •          | - ,  |  |
|                                       |  |            |  |  |
| Other Goods and Services              | F 1011 - William State Company and the State Stat<br>State State S |            | n <b>ag</b> a an internation of the second se | en e |
| Passenger car dealers                 | .23(Ret)1  | ,234,755   | 1.323.081  | 1.435.798                                |
|                                       | .28 1  | , 508, 927 | 1.610.708  | 1.747.920                                |
|                                       | .35(ped)1  | ,886,158   | 2.013.384  | 2.184.950                                |
| Gasoline service                      | .23(Ret)   | 545.958    | 583.368  | 630.646                                  |
| stations                              | .28  | 564,644    | 710,187  | 767.742                                  |
|                                       | .35(pcd)   | 830.805    | 887.733  | 959.678                                  |

## Key to Market Share Assumptions

| "ret"  | market share for retail subsector                   | •   |
|--------|---|---|
| "SIC"  | market share for SIC category                       |   |
| "RET"  | market share for all retail sector                  | 1970 - 19700 - 19700 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - 1970 - |
| "TRET" | $\frac{1}{2}$ of market share for all retail sector | •   |
| "SnS"  | market share of largest grocery store. Stop &       | Shop for  |
|        | retail subsector of supermarkets                    | — — — — — — — — — — — — — — — — — — —   |
| "Aret" | market share of the difference between that av      | erage   |
|        | for the retail subsector and that captured for      | the   |
|        | particular_category                                 | · · .   |
| "lret" | market share of lowest category in the particu      | lar   |
| · .    | retail subsector.                                   |   |

Now that we have estimated those retail categories with substantial sales potential, we need to identify those retail categories with potential financial feasibility. To do this, we estimate the size of the potential retail enterprise and compare this size to the empirical size of like retail enterprises in other community shopping centers. The unit of this comparison is gross leasable area in square feet (GLA).

The factor of annual sales volume in dollars per GLA in square feet appears in Table III.16. The median square footage and the middle range of that GLA for a given retail category appears in Table III.17. This range is for market level profit rates, and other



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(Page 108)

# - 109 -

# Table III.16

| Average          | Sales | Volume/Squ | are F | 'eet | for | Community | Scale |
|------------------|-------|------------|-------|------|-----|-----------|-------|
| Shopping Centers |       |            |       |      |     |           |       |

| Store                                      | <u>Organization</u>                          | Av Sales/Sq Ft                            |
|--|--|---|
| Drug Store                                 | national chain<br>local chain<br>independent | 69.74<br>63.28<br>66.67                   |
| Supermarket                                | national chain<br>local chain<br>independent | 105.11<br>139.67<br>157.89                |
| Specialty Food Stores                      | -  |   |
| Meat and fish markets                      | national chain<br>local chain<br>independent | no information<br>97.46<br>57.38          |
| Candy, nut and confectionery               | national chain<br>local chain<br>independent | 76.34<br>53.13<br>60.08                   |
| Bakeries                                   | national chain<br>local chain<br>independent | no information<br>~61.62<br>42.88         |
| Delicatessens                              | national chain<br>local chain<br>independent | no information<br>no information<br>53.92 |
| Convenience Services                       |  |   |
| Dry cleaners                               | national chain<br>local chain<br>independent | 26.91<br>35.79<br>29.66                   |
| Laundromats                                | national chain<br>local chain<br>independent | no information<br>16.67<br>26.23          |
| Shoe Repair                                | national chain<br>local chain<br>indepndent  | no information<br>34.87<br>47.57          |
| Primary Shoppers Goods                     | <b>L</b>                                     |   |
| Department stores                          | national chain<br>local chain<br>independent | 51.99<br>49.90<br>40.65                   |
| Variety stores                             | national chain<br>local chain<br>independent | 32.37<br>36.97<br>38.75                   |
| Major Apparel Stores                       | -  |   |
| Children's and infants'<br>clothing stores | national chain<br>local chain<br>independent | no information<br>37.64                   |
| Women's shoe stores                        | national chain<br>local chain<br>independent | 54.45<br>63.37<br>42.00                   |
| Men's and boys' shoe stores                | national chain<br>local chain<br>independent | no information<br>no information<br>54.98 |

Store

Organization Av Sales/Sq Ft Other Specialty Stores Boo ks and stationery stores national chain no information local chain 63.37 52.20 independent national chain Camera and photographic no information local chain 54.37 76.25 independent national chain no information Cigar stores and stands local chain no information 56.78 independent Hosiery and lingerie stores national chain 33.45 58.35 local chain

independent

local chain independent

local chain

independent

independent

local chain independent

local chain

independent

national chain

national chain

national chain local chain

national chain

national chain

no information available

no information available

55.06

39.95

53.51

42.13 46.90

44.74

53.35

46.30

43.08

40.00 53.79

no information

no information

no information

no information

no information

Luggage and leather goods stores Sporting goods stores

Florists

Optical goods stores

supply stores

Toys and hobby stores

Other Goods and Service Passenger car dealers

Gasoline service stations

SOURCE: The Dollars and Cents of Shopping Centers, 1972 Urban Land Institute, 1972

We can now evaluate our market feasible investment package. By dividing this simple conversion factor (from Table III.16) into the projected sales under varying assumptions (from Table III.15), we get an estimated gross leasable area (see Table III.17). We compare the converted retail expenditures (now in square feet) to the medium range of existing stores. Those of sufficient size are accepted. Those of marginal size are conditionally accepted based on sufficient subsidy and/or non-profit operation. Those of too small a size are rejected.

- 111 -

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|                          | had Imaal Circ of                 | Table III.17    | a Undor Varvi        | ng Assumpti       | ons        |
|--------------------------|-----------------------------------|-----------------|----------------------|-------------------|------------|
| Store                    | Range:Median<br>& Middle Range    | Core<br>Decline | Trends<br>Extended   | Core<br>Intensive | Evaluation |
| Drug Store               | nat 10,060<br>7200-12,800         | 2590            | 2772                 | 2995              | reject     |
|                          | loc 9,100<br>1800-12,077          | 2855            | 3055                 | 3300              | reject     |
|                          | ind 5832<br>4004-8084             | 2710            | 2899                 | 3132              | reject     |
| Supermarket              | nat 19,600<br>16,455-23,980       | 13,108          | 14,016 ]             | .5 <b>,</b> 142   | reject     |
|                          | loc 20,395<br>16,500-24,845       | 9,865           | 10,548 ]             | .1 <b>,</b> 395   | reject     |
|                          | ind 18,000<br>8,199-24,877        | 8,726           | 9,330 1              | .0,080            | accept     |
| Special Sty For          | ood Stores                        |                 |                      |                   |            |
| Markets                  | loc 2,069<br>1900-2237            | 462             | 495                  | 534               | reject     |
|                          | ind 1200<br>755-1470              | 786             | 840                  | 908               | accept     |
| Candy, nut & confection. | nat 750<br>599-849                |                 |                      |                   |            |
|                          | loc 902<br>604-1200               | 85              | 92                   | 100               | reject     |
|                          | ind 750                           | 76              | 82                   | 88                | reject     |
| Bakeries                 | loc 1111<br>833-1347              | 153             | 165                  | 177               | reject     |
| Convenience              | ind 1170<br>1200-2288<br>Services | 220             | 225                  | 254               | reject     |
| Dry cleaners             | nat 1500<br>1250-1500             | 13 C            | in the second second |                   |            |
|                          | loc 1800<br>1219-2500             | 1316            | 1406                 | 1559              | accept     |
|                          | ind 2000<br>1236-2425             | 1589            | 1696                 | 1881              | accept     |

| Laundromats              | loc 1200<br>807-1809            | 1753            | 2041   | 2207            | accept                        |
|--------------------------|---------------------------------|-----------------|--------|-----------------|-------------------------------|
|                          | ind 1709<br>1200-2200           | 1114            | 1297   | 1403            | accept                        |
| Shoe repair              | loc 674<br>600-700              | 277             | 295    | 319             | reject                        |
|                          | ind 620<br>471 <del>-</del> 764 | 203             | 216    | 234             | reject                        |
| Primary Shop             | pers Goods                      |                 |        |                 |                               |
| stores                   | nat 50,100<br>17565-70000       | 12,353          | 13,157 | 22,941          | on condition<br>of population |
|                          | loc 27,786<br>17391-39495       | 12,871          | 13,707 | 20 <b>,</b> 025 | accept                        |
|                          | ind 20,542<br>15750-29365       | 15 <b>,</b> 789 | 16,827 | 19,105          | accept                        |
| Variety<br>Stores        | nat 20,000<br>12850-26756       | 3,248           | 3,459  | 3,744           | reject                        |
|                          | loc 9,000<br>4000-14577         | 2,844           | 3,029  | 3,278           | reject                        |
|                          | ind 4,079<br>3359-4624          | 2,713           | 2,889  | 3,127           | on condition                  |
| Major Appare             | l Stores<br>drens               |                 |        |                 |                               |
| & Infants<br>clothing    | ind 1,200<br>1101-1239          | 402             | 428    | 464             | reject                        |
| Women's shoe             |                                 |                 |        |                 |                               |
| store                    | 2910-5000                       | 1362            | 1450   | 1569            | reject                        |
|                          | loc 3,000<br>1921-3191          | 1170            | 1246   | 1340            | reject                        |
|                          | ind 2375<br>1570-2688           | 1766            | 1880   | 2035            | accept                        |
| Men & Boys<br>shoe store | ind 1,390<br>1235-2147          | 1079            | 1149   | 1244            | accept                        |

- 112 -

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|   |                                       | - 113 -        |                    |                   |                 |
|---|---------------------------------------|----------------|--------------------|-------------------|-----------------|
| Stores  | Range:Median<br>&MiddleRange          | Core<br>Declin | Trends<br>Extended | Core<br>Intensive | Evalua-<br>tion |
| Books and station-                            | 10cal:4540                            | 271            | 288                | 408               | reject          |
| ery stores                                    | indep:1200                            | 332            | 354                | 496               | reject          |
| Camera and photo-<br>graphic supply           | local:2000                            | 161            | 171                | 186               | reject          |
| stores  | indep:1200<br>713-1495                | 115            | 122                | 132               | reject          |
| Cigar stores and stands                       | indep: 804<br>305,1074                | 85             | 122                | 132               | reject          |
| Hosiery and linge-<br>rie stores <sup>1</sup> | nat: 3375<br>2200-5719                | 38 <b>3</b>    | 408                | 441<br>441        | reject          |
|   | <b>local:</b> 3737<br>2345-6435       | 219            | 234                | 253               | reject          |
|   | indep:2200<br>1467-3253               | 232            | 248                | 268               | reject          |
| Luggage and leather                           | r no inf <b>or</b> mat                | ion availa     | ole                |                   |                 |
| Sporting goods                                | 10cal:5000                            | 406            | 433                | 468               | reject          |
| 500105  | indep:2608<br>1703-3240               | 304            | 323                | <b>3</b> 50       | reject          |
| Florists                                      | 10ca1:1264<br>300-2296                | 454            | 471                | 509               | accept          |
|   | indep: 991<br>627-1407                | 408            | 423                | 458               | reject          |
| Optical goods stor<br>(ie,optometrist)        | <b>local:</b> 1061<br>825-1462        | 297            | 316                | 342               | reject          |
|   | indep: 715<br>588-1096                | 249            | 265                | 287               | reject          |
| Toy and hobby shop                            | -10cal:2928<br>995-3900<br>indep:2448 | 141            | 158<br>158         | 171               | reject          |
| Constant Charmon                              | 948-5978                              |                |                    |                   |                 |
| Goods   |                                       |                |                    |                   |                 |
| Passenger car<br>dealers                      | nat: 7000<br>6000-7956                | 35,026         | 37,389             | 40,574            | accept          |
|   | 10ca1:5983<br>4850-7477               | 37,723         | 40,268             | 43,698            | accept          |
|   | indep:3200<br>2255-6800               | 28,052         | 29,944             | 32,495            | accept          |
| Other Goods and Serr<br>Gasoline service      | vices                                 |                |                    |                   |                 |
| stations                                      | no informati                          | on availabi    | le                 |                   |                 |
| Source: The Doll                              | Lars and Cent                         | s of Shopp:    | ing Centers        | : 1972            |                 |

1."Ladies specialty stores" used for estimation of "hosiery and lingerie stores" sales volume/square feet, and areal size range.

2.Average of \$43.75 sales volume/square feet for estimation of areal size of local chain "toy and hobby shops" under varying assumptions of future sales.

Now , for stores in ghettoes, GLA of a slightly lower square footage corresponding to a lower profit rate and lower prices may be feasible. The potential GLA is estimated by several market shares of each retail expenditure forecast by the sale per square foot. The market share chosen for this estimate was, in the case of three possible market shares, the middle estimate; and in the case of two possible market shares, the lower estimate. The results appear in Table III.17.

Estimates of the feasibility of retail categories are made for the three major types of organization: national chain,local chain and independent.

The results of this initial identification lead to the acceptance of 10 retail categories, and a rejection of the remaining 13. All ten retail stores can be independents, stores most likely to be lack-owned and managed. Two retail stores are accepted on condition of favorable futures.

# Direct Recapture of Income Leakage in the Retail Sector

The total feasible market capture of the retail sector estimated in Table III.15 is \$3,551,171 (this assumes total penetration of the potential sales market identified in Table III.17, and a maximum of 15% market share per store). The total sales potential of the Dudley Square retail market, using the figure of Table III.5 is \$69,724.000. This yields a potential recapture of about 5.0%. The total of the income of retail business lost to leakage according to Table III.10 is .76 x the total disposable income in 1980 (from Table III.5) is \$52,990,240. Therefore, <u>the potential recapture</u> <u>of the income lost due to leakage is 6.7%</u>. The 5% gain is substantial compared to the present market capture of 23%.

- 114 -

Impact of Development of Dudley Square on Neighborhood Retail Development

The development of the community scale commercial center in Dudley Square will severely limit the retail development of neighborhood centers in the primary trade area.

We use the same methodology for analyzing the market feasibility of neighborhood retail development as that used for analyzing community retail development. The trade area is that of the primary trade area of the community scale retail area. A different set of retail stores "agglomerate" for a neighborhood center than for a community center. And a different, smaller size of retail stores will survive in a neighborhood scale center than in a community scale one. The retail stores, along with the sales per square foot, appear in Table III.18. The evaluation appears in Table III.19.

Based on this evaluation, only the following stores are market feasible: bakeries, possibly a junior department store (assuming that none is built in Dudley), a men's and boy's shoe store, and an automobile supplies store, a book store and a coin operated laundry.

Location of these retail stores is made more difficult by the splitting of the prime market neighborhoods on opposite sides of Dudley Square, for example, the public housing projects.

Just as Dudley Square commercial center would suck away potential development in the primary trade area, so would development of Grove Hall. Spine development along the proposed Blue Hill Avenue would be, therefore, undercut by node development at the transit stations of the subway.

|                           | Table III.18                                 | ar Neighborhood                           |
|---------------------------|--|---|
| Average Sal               | Shopping Centers                             | or nerghborhood                           |
| STORE                     | ORGANIZATION                                 | AV.SALES/SQ.FEET                          |
| Meat, Poultry, Fish       | Local Chain<br>Independent                   | no information<br>146.68                  |
| Speciality Food           | National Chain<br>Local Chain<br>Independent | no information<br>62.86<br>54.05          |
| Bakeries                  | National Chain<br>Local Chain<br>Independent | no information<br>no information<br>47.05 |
| Candy, nuts               | Local Chain<br>Independent                   | no information<br>56.35                   |
| Junior Dept. Store        | National Chain<br>Local Chain                | 38.24                                     |
| Children's Wear           | Local Chain<br>Independent                   | 59.57<br>50.34                            |
| Men's & Boy's Shoes       | National Chain<br>Independent                | no information<br>no information          |
| Automobile                | National Chain<br>Local Chain                | 41.17<br>38.47                            |
| Books & Stationery        | National Chain<br>Local Chain<br>Independent | no information<br>no information<br>34.85 |
| Hobby Shop                | National Chain<br>Local Chain<br>Independent | no information<br>no information<br>28.58 |
| O<br>T bacco              | National Chain<br>Local Chain<br>Average     | no information<br>no information<br>38.20 |
| Sporting Goods            | Local Chain<br>Independent                   | no information<br>39.36                   |
| Camera                    | National Chain<br>Local Chain<br>Independent | no information<br>no information<br>45.06 |
| Optometrist               | Independent                                  | 58.81                                     |
| Ladies Specialty          | National Chain<br>Local Chain<br>Independent | 22.14<br>no information<br>60.46          |
| SOURCE: The Dollars and C | ents of Shopping Centers                     | 5, 1972 Urban Land Institute,1972         |

# - 116 -

|  | 1 | 1 | 7 |  |
|--|---|---|---|--|
|--|---|---|---|--|

| Table III.19           Neighborhood Retail Development:Primary Trade Area |                                       |                   |                     |                   |                                      |
|---|---------------------------------------|-------------------|---------------------|-------------------|--------------------------------------|
| Retail<br>Category  | Organization                          | Core<br>1980 Dec. | Trends<br>1980 Ext. | Core<br>1980 Ext. | i<br>Evaluation                      |
| Meat, Poultry<br>Fish:  | Independent<br>1088-1968              | 1211              | 1124                | 1152              | reject                               |
| Specialty Food:   | Local Chain                           | 419               | 420                 | 430               | reject                               |
|   | 530-2849<br>Independent<br>690-1475   | 487               | 488                 | 500               | reject                               |
| Bakeries:   | Local Chain                           | 1342              | 1345                | 1379              | accept                               |
|   | Independent<br>998-1800               | 1149              | 1152                | 1180              | unlikely condition-<br>al on subsidy |
| Candy, nuts:  | Independent<br>608-1550               | 468               | 469                 | 480               | reject                               |
| Jr. Dept. Store   | :National Chain                       | -0-               | -0-                 | -0-               |                                      |
|   | 556,312,615<br>Local Chain            | -0-<br>6175       | -0-<br>7307         | -0-<br>8469       | accept on condition                  |
| •   | 7313-36,789                           |                   |                     |                   | of population fore-<br>cast          |
| Childrens Wear:   | Local Chain                           | 418               | 429                 | 441               | reject                               |
|   | 2083-2822<br>Independent<br>1392-2517 | 495               | 508                 | 522               | reject                               |
| Men&Boy's shoes   | :Average                              | 2476              | 2531                | 2600              | accept                               |
| Auto:   | National Chain                        | 43,124            | 44,557              | 45,862            | accept                               |
|   | Local Chain<br>4000-5409              | 46,150            | 47,577              | 49,081            | accept                               |
| Books & Stat-<br>ionery:  | Independent<br>1005-1750              | 1108              | 1138                | 1169              | accept                               |
| Tobacco:  | (average)<br>1005-1750                | 381               | 39 <b>2</b>         | 402               | accept                               |
| Hobby Shop:   | Independent                           | 504               | 517                 | 5 <b>32</b>       | reject                               |
| Flowers:  | Independent<br>685-1530               | 516               | 542                 | 509               | reject                               |
| Sporting Goods:   | Independent<br>1070-1950              | 919               | 943                 | 969               | reject                               |

|               |                          | -          | - 118 -     |            |        |
|---------------|--------------------------|------------|-------------|------------|--------|
| Camera:       | Independent<br>980-1211  | 431        | 443         | 456        | reject |
| Coin Laundry: | Local Chain              | 2037       | 2044        | 2124       | accept |
|               | Independent<br>1260-1800 | 1460       | 1468        | 1564       | accept |
| Optometrist:  | Independent<br>832-1084  | 501        | 516         | 529        | reject |
| Ladies Spec.: | National Chain           | 1294       | 1329        | 1365       | reject |
|               | 1080-2200                | 473        | 486         | 500        | reject |
| SOURCE :      | Dollars and Cer          | nts of She | opping Cent | ters: 1972 | 2      |

Dollars and Cents of Shopping Centers: 1972 Urban Land Institute, 1972

#### Potential Wholesale Development

1. Methodology: In a menner like that of the analysis of potential retail development, we can analyze the potential for wholesale development. The purchase of goods by the new retail stores may provide a substantial, if not a total, guaranteed market for the sale of goods of new wholesale stores. If this guaranteed market is large enough, new wholesale development is feasible.

To calculate this potential, the projected sales of new retail stores is categorized by those over \$1 million. The sales of existing wholesale stores is summed by the same categories. The data source is the Dun & Bradstreet census: see Table III.20-21). The wholesale stores are broken down for total market sales, range and average size.

The results show that automobile supplies, of average size of \$135k compared to a sales projection of auto sales of \$1.3m, and food distributors, of a small size of \$250kcompared to a sales projection of \$1.5m, are strong candidates. The former may survive through just the one auto dealership; the latter would require several shopping markets of large sales volume to support adequate sales.

Further research is required.

### - 119 -

### Table III.20 Size of Automotive Supply and Services by Sales (SIC 75)

| Size                | Number | Average siles |
|---------------------|--------|---------------|
| 0-\$100k            | 13     |               |
| \$101k-200k         | 3      |               |
| \$201k-300k         | 3      |               |
| <u>\$301k-400k</u>  | 2      |               |
| Total Sales \$2828k | ÷ 21   | = 135k        |

#### SOURCE:

Dun & Bradstreet Market Indicators, December, 1973

Similarly, for grocery wholesale, we have:

Table III.21Size of Grocery Wholesale Stores by Sales (SIC 514)

| <u>Size</u>  | Number                  | Average Sales |
|--|-------------------------|---------------|
| \$10k-250k<br>\$251k-500k<br>\$501k-1m<br>\$1m-5m<br><u>\$5m-50m</u> | 7<br>-0-<br>6<br>8<br>4 |               |
| Total Sales 115 m  | ÷ 25                    | =46m          |

SOURCE:

Dun & Bradstreet Market Indicators, December, 1973

2. The Plan: The plan for wholesale development, then, is for the investment into an automobile supplies wholesale store of size around \$100k in sales, and into a grocery wholesale store of size around \$250k in annual sales. There may be more than one such store in each category. Type of supplies and type of grocery is yet to be determined.

#### Summary Program Recommendations for Commercial Investment

In summary, the following recommendations are made:

<u>Program Recommendation 1</u>: That Circle Venture Capital Fund consider seriously invesment into the following community-scale retail stores: a large size passenger car dealership(s), a medium size supermarket, meat market, junior department store, women's shoe store, men's and boy's shoe store, dry cleaners, laundromat, and a gasoline service station.

<u>Program Recommendation 2</u>: That Circle Venture Capital Fund conduct futher market research into the follwoing wholesale stores as potential investments: food wholesale, and automobile supplies wholesale.

Further cost/benfit analysis is required of this intermediate investment package.

- 120 -

### CHAPTER IV:

## Joint Development: A

# Preliminary Site Analysis

The Application of Principle IV:

"Both private and public investment and public subsidy must be tied to place";

and of Principle V:

"First, land development, and second, capital formation, are used as a trigger for a sequence of investment".

#### Introduction

In the last chapter, we examined the implications of the theory for commercial development. The result was an intermediate set of recommendations for a commercial investment package. In this chapter, we will examine the implications of the theory for land development. The result will be recommendations for alternative land sites for the retail investment package.

### PART I: The Theory

This chapter applies principle 4 (i.e., public investment in place) and parts of principle 5 (i.e., land development as a trigger for a sequence of investment) to land development.

### Land Development in the Ghetto

Land development is perceived as <u>the key</u> trigger mechanism to spur ghetto economic development. It is the means of defining what the "turf" of the ghetto community is. From the boundary definition we turn next to the need for increased residential ownership of its occupants as well as increased commercial ownership and development of the goods and services to provide to its occupants. Both residential and commercial development (as well as service and industrial development) require land development of the community.

Land use formation should be under a meaningful degree of control by the organizations and institutions of the community's residents.

Unfortunately, there are few means and few programs established (or remaining) which provide a tool for land development and its influence by community institutions, particularly in the private land market (of this we will say more in Chapter V). The one major actor to whom ghetto community development institutions can turn to and influence to intervene in the private land market is the government.

The government affects the ghetto land market in a number of ways, but for our purposes, we shall look at one specific type of intervention due to public capital construction.

### External Economies of Public Capital Construction

Public investment is particularly capital construction provides external economies, which are often lost to the disbenefit of The benfits are the potential increase in land ghetto residents. values, the assembly of linked commercial (and other industrial) enterprises of agglomeration economies and the control over the ownership of businesses to be located on the land on which the capital investment is made. While these benefits are not lost to the wider community that is governed, it is lost to the community which most needs it. That is, there is an inequity of the distribution of these external benefits. Increasing land values accrue to non-residents landowners; the commercial enterprises that purchase the land are often those that lack the present or potential linkages to the locallyowned enterprises of the ghetto community; and, the new businesses may be owned by non-residents who choose to take profits out of the ghetto community rather than to distribute or to reinvest that profit into further ghetto development. In sum, the private land market in the ghetto operates to divert the potential benefits of external economies of public capital investment out of the ghetto economy.

Similarly, the costs of land development including the cost of land acquisition, working capital start-up or expansion costs, and the operating expenses of ghetto enterprises are greater than that outside the ghetto. That is, the operation of the private land market in the ghetto provides in part a cost barrier to entry by new ghetto enterprises, particularly those that are communitycontrolled or community-supported.

Public capital investment could provide a subsidy of this increased marginal cost of land development to support ghetto land development by community institutions.

Thus, by the combination of public intervention in the land market to capture external benefits of capital investment and of public subsidy to lower the higher marginal costs, public action can induce land development in the ghetto for the benefit of its residents.

To put this theme in terms of our theory of ghetto economic development, we effectuate principle I (i.e., SOC-DPA process) only to subvert principle II (i.e., re-capture of consumer expenditures), and the creation of community institutions (i.e., backward linkages and a land bank or land trust). And we lose the chance to effect principle IV (i.e., subsidy tied to place).

Instead, the government must work to effectuate both principles I and IV, and to establish the community institutions.

## Joint Development as Public Intervention into the Land Market

Public intervention into the land market is required in order to insure that the land development process operates to the net benefit of the ghetto residents. Land owned by absentee land owners of that around a new transit station must be reallocated by government at controlled prices to entrepreneurs or communitycontrolled enterprises who will use the land to the benefit of the ghetto residents. This reallocation may best be done within a community land development or land holding institution.

Government powers for use in this intervention process are

several. They include the powers of eminent domain, tax writedown, long-term leasing or transfer of ownership and land use regulation.

In effect, when the government invests in a capital project in the ghetto, it is stimulating the land market. We are asking that it control that intervention and its effects on the welfare of those who live and work in that market.

Land development of one public capital project in particular, mass transit capital construction, should be tied together in a project in order to capture these benefits and to lower these costs. This holds to a lesser extent for old capital facilities, like an old transit station, that may be salvage so that the building can be written down and the land leased or sold at a writedown to a community institution or a ghetto enterprise. Therefore, land sites for development should considerlocation of transit facilities. Further, government should consider the associated development of transit facilities. This type of development is called joint development.

Our task in the next section, then, is to identify the potential for joint development of commercial development in concert with transit station development. While the analysis of commercial development has encompasses part of the benefits of these external economies, the analysis of joint development in its entirety (see volume II) will encompass mainly the costs of land development and the operation of new ventures.
<u>Introduction</u> In this short but important section, we examine the opportunity for joint land development of the commercial complex with the new transit or the new bus station. There are five site criteria established. Three prime sites are established. Finally a schedule of land development is estimated based on the site selected.

#### Methodology

There are five initial site criteria for site selection. These are:

- (1) the minimization of conflicting land use within each parcel of commercial development. Some collections of retail stores fit well together. Others do not. Conflict can tend to reduce the total percentage of retail stores;
- (2) <u>sufficient land available in the parcel to fully</u> <u>develop the commercial package.</u> Insufficeint land may result in either forced increase in costs of construction, or in the construction of a business with decreased economies of scale;
- (3) <u>sufficient transportation access of the dominant modes</u> <u>used by prospective customers to the new commercial</u> enterprises;
- (4) potential for joint development with a transportation capital facility. Joint development could result in the transportation authority paying for land and building of the commercial facility. Both the commercial and transportation facility would be housed in the same structure; and,
- (5) <u>minimal relocation of existing businesses within the</u> <u>parcel</u>. Clearly, a community-based development institution would like no relocation of community businesses at all. However, the limit of available land may call for some minimal relocation for site assembly.

The result of the application of these site criteria to Dudley Square is three sites. The first is a site with no transportation facility at all. This is our standard to compare the value of the other sites against. The second is the site of the new transit stations. And the third, is the site of the proposed new bus terminal.

# Area Required for the Commercial Expansion

There are two parcels needed for development. One is non-auto related, the other is:

 Table V.I

 Store Area of Proposed Commercial Center:Non-Auto Related Uses

| Store  | Area in Square Feet |        |   |            |        |  |
|--|---------------------|--------|---|------------|--------|--|
| Supermarket<br>Junior Dept. Store<br>Variety Store<br>Women's Shoe Store<br>Dry Cleaners<br>Laundromats<br>Men's & Boy's Shoe<br>Florist<br>Meat & Fish Market | 1<br>Store          | flight | 9330<br>27,786;<br>4079<br>2375<br>2000<br>1709<br>1390<br>1246<br>1200 | 2 flights, | 14,893 |  |
|  | TOTAL               | l flt: | 51 <del>,130</del> ;  | 2 flights: | 37,237 |  |

|                      | Auto Related Uses   |
|----------------------|---------------------|
| Store                |                     |
|                      | Area in Square Feet |
| Gas Station          | 8214                |
| Passenger Car Dealer | 7000                |
| TOTAL                | 15,214              |

We can convert this store area to total parcel size required if we assume the conversion factor, the floor-to-area ratio (FAR), to be between  $\frac{1}{2}$  and 2, then we have:

Table V.2Total Land Needed for Proposed Commercial Center:Junior Dept. Store(in square feet)

| 1 FLIGHT DEPT. STORE  | 2 FLIGHT DEPT. STORE |
|-----------------------|----------------------|
| maximum FAR - 51,130  | 37,237               |
| minimum FAR - 102,260 | 74,474               |

# AUTO DEALER (in square feet)

maximum FAR - 15,214 minimum FAR - 30,428

Examining the area of the three site categories, we have the following:

|                      |                | -    | c  |      | Table V.3                             |
|----------------------|----------------|------|----|------|---------------------------------------|
|                      |                | Area | ot | the  | Alternative Sites for Development     |
| <u>Site</u>          |                |      |    |      | <u>Area</u> (in square feet)          |
| Site<br>Site<br>Site | la<br>lb<br>lc |      | Ţ  | OTAI | 53,314<br>81,111<br>65,321<br>219,746 |
| Site                 | 2:             |      |    |      | 156,009                               |
| Site                 | 3:             |      |    |      | 72,922                                |

Given a maximum FAR, all sites can satisfy the area need. Given a minimum FAR, site 3 cannot satisfy the space requirements. Therefore, joint development is market feasible.

- 128 -

### Alternative Sites for Development:

There are three major site categories for development of the proposed commercial expansion. These are:

Site 1: the existing commercial land

This site is bounded by Shawmut Ave., Ruggles St., Washington St. and Williams St. Two small alleys, Dade and Gary Streets cut through the site. Both small businesses and housing exist on the site. But there are much fewer and much smaller than on other possible sites. (see MAP V.1)

Site 2: the cleared land

This site is bounded by the intersection of Washington St and the new Sterling St. At the center of this intersection is the site of the new Dudley Station. One of the two parcels of cleared land is designated for the New Derby Park. The other is now up for sale for commercial use (site la). The remaining two subsites are on partially used land. Very few businesses remain on these subsites (see MAP V.2).

Site 3: the present Dudley Station site

This triangular site is bounded by Washington St., Dudley St. and Warren St. This site is the location of the present MBTA Dudley Station, a two level bus terminal, and several stores both large and small, most notably including, First National Bank, Ferdinand's Furniture Store, and A Nubian Notion. (see MAP V.3)



- 129 -





We next turn our attention to the time frame for land devel-

# Schedule for Land Development of the Commercial Center

The approximate schedule of land development is shown in Table V.16. The assumptions of time estimates are: community participation 1-2 years; construction 2-1 years. Clearly, the time frame is shorter for market development. Joint development with the new transit station will take an added two or more years. Joint development with the old Dudley terminal will take an extra four years over that for the new station.

### Need for a New Land Development Institution

Given the need for public intervention into the ghetto land market, a new land development and land holding institution is required. This new institution should lower the costs of land development, it should control its use for the benefit of the ghetto community, and it should maintain ownership in community hands.

There are two main kinds of such land instruments: a land bank, whereby land remains in the private land market, and a land trust, whereby land is take out of the private market and kept in government hands. If the former is financially feasible, the land bank would likely be the more politically acceptable solution, since it would generate tax revenue and profit through gains on sale. If it is not feasible, or if change in land ownership and/ or businesses on that land is likely, then the land trust would be the better community solution. (This awaits further cost/benefit analysis) TABLE VA

APPROXIMATE SCHEDULE OF LAND DEVELOPMENT AT PUDLEY SQUARE

NOT TIED TO TRANSIT STATION DEVELOPMENT:



Summary Program Recommendations for Land Development

<u>Program Recommendation</u>: That Circle Venture Capital Fund, Inc. consider the following alternative sites for the retail development, in order of their decreasing preference: Site 1: site of the new Dudley Square transit station

Site 2: site bounded by Shawmut Ave. Ruggles St., Washington St., and Sterling St. (or the New Crosstown Street).

Site 3: site of the old Dudley Station.

CHAPTER V:

Impact of the Proposed Development Program

on the Political Economy of Dudley Square

#### Part I - The Theory

The theory of the political economy of Dudley Square is a theory of the market structure of the commercial and land economy. This theory of the market is that it is an dualistic structure. That is, a market where the ownership of the most valuable land is in the hands of a few large owners. Few means under 20.

The public market of land is in the hands of the city and a few public agencies. This is due to the municipal urban renewal project on the border of the Square, and the transit station and bus yard nearby.

The private market is owned by prior ethnic residents of the community-the Jewish. Retail stores in Dudley Square are predominantly Jewish; wholesale stores particularly in nearby New Market Square in South Boston (mostly food wholesale) is Jewish. And, the landowners in Dudley Square are mostly Jewish.

Remember the dominant black population of Roxbury is less than a decade and a half old. Black ownership of retail, wholesale and land lags far behind black residence.

This market structure is a dual one. There are two segments. The segment of stores of greater sales and thus greater profit, are Jewish. The segment of stores of lesser sales and lesser profit are black. The more profitable segment tends to be undercrowded; the less profitable segment tends to be overcrowded.

Similar dualism exists in the land market. The segment of parcels of greater value and rent is owned by the Jewish (and institutions). The segment of parcels of lesser value and rent

- 135 -

is owned by lack. The more valued segment is undercrowded <sup>34</sup> (with mainly residential ownership).

Ghetto economic development, then, must aim to break this dualistic structure. To do this, the investment program must purchase, expand or start-up commercial ventures of the higher profitability (or sales), and purchase parcels of greater value (or rent).

Aldrich, Howard, "Employment Opportunities for Blacks in the Black Ghetto; the role of White Owned Businesses" the American Journal of Sociology, May, 1973

<sup>34</sup> Aldrich, Howard & Albert Reiss, "The Effect of Civil Disorders on Small Businesses in the Inner City" Journal of Social Issues, VOL 26 Nov., 1970

### Introduction

We can now judge the market impact of the development program on the economic structure of Dudley Square. In this treatment, only the change in the economic structure is examined. No effort is made to analyze the change in the institutional structure. This awaits the institutional analysis of Part II.

This market impact examines two sectors of the economic structure: that of retail business, and that of land development. If the development program is to have a significant impact, then community developed and owned retail business and land should appear in a high value position in both the retail and land structure.

# PART II<sub>A. Impact on the Retail Business Structure</sub> Retail Business Structure

A listing of the retail businesses interviewed for the Dun and Bradstreet <u>Market Indicators</u> appears in the Appendix 2. Note that this list is only about 70% complete.<sup>59</sup> A partial list of businesses not listed also appears in the appendix.

A complete listing of businesses awaits a survey and an interview to estimate sales and to identify ownership. Such a survey was not undertaken by the present work, in part due to the limit in time. However, care was taken to make sure that the incompleteness of the Dun & Bradstreet census did not affect the investment recommendations of the marketing analysis.

Clearly, such estimates made as the total market penetration of the retail expenditures of the Dudley Square area are understated, but by much less than the 30% of the businesses not interveiwed, since almost all of the major scale businesses were interviewed with only a few exceptions (see the Appendix). Recognizing the sample limitation of the survey, however, we have still felt that it would be valuable to analyze the retail business structure with the data available <u>without</u> adjustments. These adjustments are to be made at a later date. The results appear in this chapter.

The retail business structure is as follows:

#### Table V.1

# Retail Business Structure in Dudley Square

| $\underline{\text{SIC}}$ | Groupings                     | <u>N O.</u> | ot | Businesses |
|--------------------------|-------------------------------|-------------|----|------------|
| 52                       | Building materials, hardware  |             |    |            |
|                          | garden supply                 |             |    | 3          |
| 53                       | General merchandise stores    |             |    | 1          |
| 54                       | Food stores                   |             |    | 5          |
| 55                       | Automotive dealers & gasoline |             |    |            |
|                          | service stations              |             |    | 6          |
| 56                       | Apparel & accessory stores    |             | 2  | 23         |
| 57                       | Furniture, home furnishings & |             |    |            |
|                          | equipment stores              |             |    | 8          |
| 58                       | Eating & drinking places      |             | 2  | 20         |
| 59                       | Miscellaneous retail          |             | ]  | 1          |
|                          |                               |             |    |            |

TOTAL

SOURCE:

Dun & Bradstreet, <u>Market Indicators</u>, December, 1973

The rank of retail categories by 4-digit SIC numbers over

sales volume as follows:

| Table | v. |
|-------|----|
|       |    |

Ranking of Retail Categories by Sales (over \$1/2 million)

77

| SIC  | Retail Categories                   | Estimated Sales |
|------|-------------------------------------|-----------------|
| 5411 | Supermarket & food stores           | \$3,030,000     |
| 5651 | Family clothing stores              | 1,900,000       |
| 5231 | Paint, glass & wallpaper Stores     | 1,675,000       |
| 5812 | Eating places                       | 1,200,000       |
| 5921 | Liquor stores                       | 975,000         |
| 5611 | Men's & boy's clothing & furnishing | ng              |
|      | stores                              | 858,900         |
| 5912 | Drug stores & proprietary stores    | 600,000         |

SOURCE:

Dun & Bradstreet, Market Indicators, December, 1973

Food, clothing and cheap housing decoration materials rank high. Unfortunately, liquor ranks higher than drugs and other medicines. The rank of individaal retail businesses by sales volume follows:

### Table V.3

Ranking of Retail Businesses by Sales (over \$300,000)

| Store                      | Estimated Sales | Trading Area Market Capture |
|----------------------------|-----------------|-----------------------------|
| Blair's Supermarket, Inc.  | \$2,000,000     | •66                         |
| B&D Wallpaper, Co., Inc.   | 1,600,000       | .96                         |
| L&S Department Stores, Inc | . 1,500,000     | .79                         |
| Bello L & Sons             | 500,000         | .17                         |
| Dudley Liquor Store        | 500,000         | .51                         |
| Clinton Provision Inc.     | 450,000         | .15                         |
| Tropical Foods, Inc.       | 440,000         | .15                         |
| Ferdinand Frank, Inc.      | 436,000         |                             |
| Palcalco Corp.             | 350,000         | .29                         |
| Venus Cosmetic Store       | 300,000         |                             |

SOURCE: Dun & Bradstreet, Market Indicators, December, 1973

Again, a supermarket tops the sales ranking, followed by a wallpaper store, and a family clothing store (not a department store at all). These three mark the \$1 million annual sales retail stores. In the next layer are a liquor store, three food stores, a furniture store, an eating place, and a cosmetic store. To a large extent, the retail stores with the highest sales captured the huge buld of the total sales for the retail category. Wallpaper, major apparel stores, furniture, cosmetics seem to be monopolistic. Food is dualistic, but dominated by one store. Similarily for liquor and eating places. Drinking places, for example, appear to be highly competitive and of roughly the same size, measured by sales volume.

#### Capital Structure of Retail Sector

The capital structure of the retail sector based on the assets on each interviewed business is as follows:

#### - 139 -

|    | 140 |   |   |
|----|-----|---|---|
| Ͳል | hle | V | Δ |

|   | SIC   | Grouping Retail Businesses by Capital Invested | <u>Capital</u>         |
|---|-------|--|------------------------|
|   | 52    | Building materials bardware & gardon supply    | \$244 600              |
|   | 53    | Conoral morchandigo storog                     | 7244,000               |
|   | 55    | General merchandrse scores                     | I,000                  |
|   | 54    | Food stores                                    | 53,900                 |
|   | 55    | Automotive dealers & gasoline service stations | 60,000                 |
|   | 56    | Apparel & accessory stores                     | 857,000                |
|   | 57    | Furniture, home furnishings & equipment        | 437.000                |
|   | 58    | Eating & drinking places                       | 65,000                 |
|   | 59    | Miscellaneous                                  | 218,000                |
|   |       | ጥር ምር      | 1 938 370              |
| - |       |  | · <b>T 3 3 3 3 1 0</b> |
| - | Dun & | Bradstreet, Market Indicators, December, 1973  |                        |
|   |       |  |                        |

SOURCE:

SIC 56 has the largest capital investment at \$857,280; SIC 57 is second at \$437,000; followed by SIC 52 at \$244,600 and SIC 59 at

\$218,000.

The distribution of capital per business by SIC major grouping

|        | is as          | follo  | WS:               | _          |          |            |          |      |
|--------|----------------|--------|-------------------|------------|----------|------------|----------|------|
|        |                |        |                   | Ta         | ble V.5  |            | · ·      |      |
|        | 1 A.           | •      | Capital D         | Distributi | on in th | e Retail : | Sector   |      |
|        | less           | 5000-  | 10,000-           | 25,000-    | 50,000-  | 75,000-    | 125,000- |      |
| SIC    | \$500 <b>0</b> | 9999   | 24,999            | 49,000     | 74,999   | 124,000    | 499,000  | "?"  |
| 52     | -0-            | -0-    | -0-               | -0-        | 1        | -0-        | <u> </u> | T    |
| 53     | 1              | -0-    | -0-               | -0-        | -0-      | -0-        | -0-      | -0-  |
| 54     | 1              | 1      | 2                 | -0-        | -0-      | -0-        | -0-      | 2    |
| 55     | -0-            | -0-    | -0-               | 2          | -0-      | -0-        | -0-      | า    |
| 56     | 1              | 1      | 5                 | 2          | 2        | 4          | 2        | 5    |
| 57     | -0-            | -0-    | 2                 | 1          | 3        | -0-        | ī        | ĩ    |
| 58     | 3              | 1      | 2                 | -0-        | -0-      | -0-        | -0-      | 10   |
| 59     | 1              | -0-    | 5                 | 1          | -0-      | ĩ          | -0-      | 2    |
| TOTAL  | 7              | 3      | 16                | <u>-</u>   | Ğ        | 5          |          | -23- |
| SOURCE | Dun &          | Bradst | treet, <u>Mar</u> | ket Indic  | ators, D | ecember,   | L973     | 23   |

The ranking of individual retail stores by estimated assets is as follows:

| Tal                         | ble V.6                                 |
|-----------------------------|---|
| Ranking of Retail           | Businesses by Assets (over \$50,000.00) |
| Store                       | Estimated Assets                        |
| B&D Wallpaper Co., Inc.     | \$225,000                               |
| L&B Department Stores, Inc. | 194,000                                 |
| Ferdinand, Frank, Inc.      | 163,000                                 |
| Norwood Shoe Store, INc.    | 108,000                                 |
| Kornfields A., Inc.         | 92,900                                  |
| Callahans Men's Shop        | 79,500                                  |
| Samal, Inc.                 | 78,800                                  |
| Terminal Hardware Co.       | 68,700                                  |
| National Radio & T.V. Co.   | 51,000                                  |

SOURCE :

Dun & Bradstreet, Market Indicators, December, 1973

Blair's is not listed since no estimate of assets is made by the Dun & Bradstreet census. Furniture, wall paper and apparel have the greatest amount of assets. Hardware, and radio and televison follow.

None of the top ranked retail businesses, whether by sales or by assets, are black owned, let alone community-controlled.

#### The Ownership Patterns of Retail Sector

The ownership pattern of the retail sector show the prdominance of proprietorships, at 52% of the total number of businesses, followed by ownership, at 32%. This reflects the large number of mom and pop stores (mostly not black owned).

#### Table V.8

|          | <u>Ownersh</u> | ip Pattern of Re | tail Sector b | y SIC Groupings |
|----------|----------------|------------------|---------------|-----------------|
| SIC      | <u>Owner</u>   | Proprietorship   | Partnership   | Principal       |
| 52       | 1              | 1                | 0             | 0               |
| 53       | 1              | 0                | 0             | 0               |
| 54       | 2              | 3                | 1             | 0               |
| 55       | 1              | 1                | 0             | 1               |
| 56       | 3              | 12               | 0             | l               |
| 57       | 5              | 4                | · 0           | 0               |
| 58       | 3              | 10               | 1             | 0               |
| 59       | _3             | 6                | <u>0</u>      | <u>0</u>        |
| Total    | 20             | 38               | 2             | 2               |
| % of row | 32%            | 52%              | 38            | 38              |

SOURCE: Dun & Bradstreet, <u>Market Indicators</u>, December, 1973 Strikingly few of the total number of retail stores in Dudley Square are part of corporations whose headquarters are located outside of Roxbury (about 5%).

#### Table V.9

| Retail Stores  | with Headqua                               | rters Located Outs       | ide Roxbury         |
|--|--|--------------------------|---------------------|
| Store  | Sales                                      | Employment<br>in Roxbury | Employment<br>Total |
| B&D Wallpaper Co.<br>L&S Department Store<br>Venus Cosmetic Shop | \$225,000<br>\$194,000<br>\$300,000        | 12<br>28<br>5            | 52<br>52<br>12      |
| Royce Specialty Shop<br>Totals                                   | \$ 93,40 <u>0</u><br><del>\$812,40</del> 0 | $\frac{4}{49}$           | $\frac{6}{122}$     |
| SOURCE: Dun &  | Bradstreet,                                | Market Indicators,       | December 1973       |

This is only 5.2% of the businesses, 4.8% of the sales, and 7.8% of the jobs. This estimate, however, understates the penetration by outside corporations. The census does not record such well known national chains such as Woolworth's, Thomas McCann, Freddie Parker's, Joe & Nemo's, as well as a well-know local chain, Ugi's (see Appendix A II-22 for list of missing businesses). The first two stores are of large sales volume. The revised eistimate would be about one and a half times the initial one made here.

Table V.9 lists the chains. Therefore, the remainder of the businesses are independents (according to the classification of the Urban Land Institute). Our unrevised estimates are that these account for 94.8% of the number of businesses, 95.2% of the sales and 92.2% of the jobs.

The number of non-white owned retail businesses is equally small:

|   | Table V.10  |  |   |
|---|---|--|---|
| Non-white Ow  | ned Retail Businesse  | s in Dudley  | Square  |
| Store X   | Owner   | Sales  | Assets  |
| A Nubian Notion <sup>1</sup><br>Calyp-Soul Foods<br>Calvey Jewelers<br>Elites Restaurant <sup>2</sup><br>Limbo (not listed in D<br>Our Fish Market<br>(Warren Fish Market)<br>Total for black owned | M. Abdal Khallaq<br>John V. Lewis<br>Charles J. Calvey<br>Charles J. Calvey<br>Dun & Bradstreet) <sup>3</sup><br>Ralph Frazer | \$108,000<br>\$150,000<br>\$ 70,000<br>?<br>\$ 50,000<br>\$378,000 | \$20,900<br>?<br>\$35,300<br>?<br>\$500<br>\$56,700 |
| Joe's Steak & Sub<br>Tropical Foods, Inc.<br>Total for Spanish-spea   | Jose Fidverda<br>Jose Hernandes<br>Nking  | \$150,000<br>\$440,000<br>\$590,000                                | ?<br>\$17,500<br>\$17,500                           |
| Cho Buk H. Co, Inc.<br>Peking House<br>Total for Oriental own   | Duk A Cho<br>Song Ping<br>ned   | \$ 80,000<br><u>\$ 50,000</u><br>\$590,000                         | \$ 7,480<br>?<br>\$17,500                           |
| Total for Non-white ow<br>Retail Businesses   | ned   | \$1,448,000  | \$81,680  |
| I These figures includ  | le sales for the Humbo  | oldt Ave. St   | tore  |

<sup>2</sup> This owner was listed as black by Goria Fox, Model Cities Community Organizer, July 15, 1974

<sup>3</sup> Identified by Gloria Fox

Black ownership is 9.2% of sales, but only 4.2% of the capital investment (Black here includes all non-white).

#### Age of Retail Sector

The age of the retail sector is almost all under 33 years of age.

|   | Table V. 11       |               |                     |                 |        |               |       |
|---|-------------------|---------------|---------------------|-----------------|--------|---------------|-------|
|   | Age of            | Retail        | Busin               | ess∷0ve:        | r Sale | es Vo         | lume  |
| Sales                                       | Pre-<br>1929      | 1929<br>1940  | 1941<br><b>1959</b> | 1960<br>1968    | 1969   | and           | later |
| \$1-2,000,000<br>500-999,999<br>300-499,799 | -0-<br>-0-<br>-0- | -0-<br>2<br>1 | 2<br>-0-<br>1       | -0-<br>-0-<br>2 |        | 1<br>-0-<br>2 |       |
| 100-299,999                                 | -0-               | 1             | 11                  | 10              |        | 1             |       |
| 20-99,999<br>0-19,999                       | -0-<br>-0-        | -0-<br>-0-    | 5<br>-0-            | 5<br>1          |        | 7<br>2        |       |
| Total                                       | -0-               | 4             | 19                  | 18              |        | 13            |       |

SOURCE: Dun & Bradstreet, Market Indicators, December, 1973

Let us call"old business" 14 years or older:"middle age business". as 5-13 years of age; and"young business." as 4 years or younger.

The age of firms is almost evenly distributed during these three age groups. More than a third of these businesses are middle age: more than a third are old suggesting fair longevity after 5 years. Under a third are young, suggesting high turnover. If businesses stabilize, the young businesses have a chance to exceed the record number of businesses created in the fourth period. Most of these businesses are in the low sales volume category and will likely turnover. Therefore, redirection of investment in business aimed at larger sales volume and higher market share is supported.by present gaps of investment. Employment Structure of Retail Business

A ranking of the retail business according to employment demonstrate a wide distribution of jobs. High is 131, followed by 96. Middle sectors follow at 66,60,53 and 40. Low sectors are at 13 and 1, respectively. Total employment is at 626.

.1.04

|         |    |        | •          |    |            |
|---------|----|--------|------------|----|------------|
|         |    | · Ta   | able V.12- |    |            |
| Ranking | of | Retail | Businesses | bv | Employment |

- 144 -

| SIC        | Groupings                                     | nolovme | ent  |
|------------|---|---------|------|
| 56         | Apparel and accessory stores                  | 131     |      |
| 54         | Food stores                                   | 96      |      |
| 58         | Eating & drinking places                      | 66      |      |
| 55         | Automotive dealers & gasoline stations        | 60      |      |
| 5 <b>9</b> | Miscellaneous retail                          | 53      |      |
| 57         | Furniture, home furnishings & equipment store | s 40    |      |
| 52         | Building materials, hardware, garden supply   | 13      |      |
| 53         | General merchandise stores                    | 1       |      |
|            | Total   | 626     |      |
| SOURCE:    | Dun & Bradstreet, Market Indicators, Dece     | mber.   | 1973 |

A ranking of 4-digit SIC numbered retail businesses by

employment produces the following:

|              | TADIE V.IJ                                 |           |       |    |
|--------------|--|-----------|-------|----|
|              | Ranking of Retail Categories by Emp.       | loyment   | (over | 10 |
| SIC          | Groupings                                  | Employme: | nt    |    |
| 5411         | Grocery stores                             | 82        |       |    |
| 5812         | Eating places                              | 53        |       |    |
| 5651         | Family clothing stores                     | 38        |       |    |
| 5231         | Paint, glass & Wallpaper                   | 25        |       |    |
| 5712         | Furniture stores                           | 23        |       |    |
| 5611         | Men's & boy's clothing & furnishing stores | 22        |       |    |
| 5631         | Women's accessory & speciality stores      | 16        | ÷     |    |
| 5921         | Liquor stores                              | 16        |       |    |
| 5813         | Drinking places                            | 11        |       |    |
| 5912         | Drug stores                                | 11        |       |    |
| 52 <b>23</b> | Meat & fish (seafood markets)              | 11        |       |    |
| 5431         | Fruit stores & vegetable markets           | 11        |       |    |
|              | Total                                      | 399       |       |    |
| a            |  |           |       |    |

| Ta | <b>b1</b> | e · | V | . 1 | .3 |
|----|-----------|-----|---|-----|----|
|----|-----------|-----|---|-----|----|

SOURCE: Dun & Bradstreet, Market Indicators, December, 1973

> Food stores and eating places exceed the employment levels of the other stores. Paint, glass and wallpaper, furniture and clothing stores follow from 38 to 16. Liquor and drinking places are third at 16 and 11. Meat and fish and fruit stores and vegetable markets are last. The order of employment roughly follows the order of sales.

A ranking of individual retail businesses by employment reveals a dramatic difference. The data, however, is from a holiday month. This difference is, therefore, likely overstated for the year.

| Ranking of Reta   | ail | Businesses | by | Employment   | (over | 7 | jobs |
|---|-----|------------|----|--|-------|---|------|
| Store   |     |            |    | Employ   | ment  |   |      |
| Blair's Supermarket<br>L&S Department Store<br>Palcalco Corporation<br>Ferdinand Frank<br>Dudley Liquor Store<br>B&D Wallpaper Co.<br>Venus Cosmetic Store,<br>Bello L & Sons<br>H & F Inc.<br>Kornfield A.<br>Tropical Foods | Ind | 2.         |    | 65<br>28<br>22<br>15<br>14<br>12<br>12<br>11<br>11<br>8<br>8 |       |   |      |
| Total   |     |            |    | 206  |       |   |      |

### Table V.14

)

SOURCE: Dun & Bradstreet, <u>Market Indicators</u>, December 1973 The biggest emplyer by far is Blair's Supermarket. In second and trhird place are L&S Department Store and Palcalco Corporation (a blck firm) followed by Ferdinand Frank.

The majority of retail stores, however, have 7 or less employees, about 86%. Retail, with a few key exceptions (like supermarkets) tend not to be large employment generators.

#### Employment Impact of the Retail Investment Package

We can now roughly estimate the employment impact of the intermediate retail investment package. To do this we rely on figures for the current employment level per sales volume for each BLS retail category. Multiplying this factor by the projected sales per retail store yields the estimated employment per store. The total employment impact of the retail investment package is significant. Though possibly overstated, the results are indicative. The total impact is over 200 new jobs, almost one-third of the present retail employment of Dudley Square (possibly one-fourth of the present retail employment if the figures are re-adjusted for missing businesses).

(Unfortunately, no data seems to exist about wage levels and about internal career ladders for Dudley Square retail businesses.)

| Store                    | Employment |
|--------------------------|------------|
| supermarket              | 48         |
| passenger car dealer     | 28         |
| junior department store  | 99         |
| gasoline service station | 15         |
| variety store            | 12         |
| shoe stores              | 4          |
| meat market              | 1          |
| dry cleaners             | 2          |
| laundromats              | 1          |
| Total employment impact  | 210        |

#### Table V.15

Estimated Employment Impact of Retail Package

# Ranking of Investment Package in the Retail Business Structure

Using the ranking of retail businesses of Table V.2, a revised ranking of the new retail business structure including the new retail investment package would yield the following:

#### Table V.16

#### Ranking of Retail Businesses in the Investment Package

| Store  | Es                                      | t Sales   | Rank in<br>All Retail | Rai<br>Ca            | nk in<br>tegon           | n BI<br>CY           | LS               |
|--|---|---|-----------------------|----------------------|--------------------------|----------------------|------------------|
| Supermarket<br>Passenger car dealer<br>Junior dept store<br>Gas service station<br>Variety store<br>Men's & boys' shoe store<br>Women's shoe store | \$1<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$ | ,473,267<br>862,878<br>684,012<br>380,457<br>85,839<br>41,199<br>31,939 | #3<br>#5<br>#6<br>#12 | #2<br>#1<br>#1<br>#1 | out<br>out<br>out<br>out | of<br>of<br>of<br>of | 4<br>1<br>1<br>3 |
| Meat market<br>Dry cleaner<br>Laundromat   | \$<br>\$<br>\$                          | 30,673<br>25,159<br>17,014  |                       | #1<br>#2<br>#1       | out<br>out<br>out        | of<br>of<br>of       | 1<br>3<br>1      |

#### by Sales

The largest stores with the largest projected sales volume make a major impact on the retail business structure. Two of these, the passenger car dealership and the junior department store, form a"monopoly" of business in their respective retail categories. The other two, a supermarket and a gas station, are of large enough size to compete with the existing large size stores in their respective retail categories. Therefore, the impact of the investment package on the retail structure of Dudley is significant!

### PART IIB: Impact on the Real Property Structure

### Real Property Structure

A listing of the land ownership of the real property of Dudley Square (including residential and public ownership) is taken from the Assessor's List of Property from the Boston Municipal Tax Bureau and appears in Appendix II Part II. This list should be 100% complete.

A list of final owners awaits an in-depth investigation into the corporate records of the Secretary of State as well as the tax records of the Municipal Tax Assessor's Office. No such in-depth survey was undertaken for the purposes of this work. This may tend to understate the ownership of absentee landlords, and of interlocking landlord families.

Recognizing this limitation, however, the results still produce a dramatic profile of the real estate structure of Dudley Square.

### Summary Valuation of Land, Building and Taxes

The summary valuation of land, buildings and tax assessment is as follows:

Table V.16

|                            | Summary Value of               | Land, Buildings              | with Taxes                   |        |
|----------------------------|--------------------------------|------------------------------|------------------------------|--------|
| <u>Land</u><br>\$2,897,300 | <u>Building</u><br>\$3,532,700 | <u>Total</u><br>\$6,4300,000 | <u>Taxes</u><br>\$382,750.53 |        |
|                            | SOURCE: Assessor               | 's List of Prope             | rty, City of Boston          | n 1974 |

Total assessed value of land and buildings is less than \$6½ million. Total taxes on the assessed value are less than \$400,000 per annum. No effort was made to adjust for under-valuation.

The summary of the total square footage of Dudley Square Commercial Area yields the following. Again, this summary includes not only commercial area, but also residential and government owned land inside the periphery of Dudley (it does not include the cleared land of the now cancelled Boston Inner Belt).

| Block Number                     | Number          | of | Square | Feet |
|----------------------------------|-----------------|----|--------|------|
| 4161                             | 14,328          |    |        |      |
| 4162                             | 67 <b>,</b> 335 |    |        |      |
| 4216                             | 78,540          |    |        |      |
| 4214                             | 44,018          |    |        |      |
| 4215                             | 41,374          |    |        |      |
| 4267                             | 155,416         |    |        |      |
| 4268                             | 64,369          |    |        |      |
| 4269                             | 58,425          |    |        |      |
| 4220                             | 33,215          |    |        |      |
| 4219                             | 134,515         |    |        |      |
| 4218                             | 32,401          |    |        |      |
| 4217                             | 45,452          |    |        |      |
| 4163                             | 53.821          |    |        |      |
| 4078                             | 6,626           |    |        |      |
| 4109 (part of)                   | 33,485          |    |        |      |
| 4164 (part of)                   | 35,690          |    |        |      |
| 4043 (part of)                   | 40,465          |    |        |      |
| (no block number. street address | 10,105          |    |        |      |
| nos ) 2436 2440 Washington St    | 5,297           |    |        |      |
| A076 (part of)                   | 9 734           |    |        |      |
| 4070 (part of)                   | 18 217          |    |        |      |
| 4075 (part of)                   | 20,217          |    |        |      |
| 4100  (part OI)                  | 176 110         |    |        |      |
| 4100 (part Or)                   | 1/0,440         |    |        |      |
| 4213 (part of)                   | 94,990          |    |        |      |
| 4266 (part of)                   | 35,129          |    |        |      |
| 4395 (part of)                   | 10,745          |    |        |      |
| 4396 (part of)                   | 9,694           |    |        |      |
| 4270                             | 109,641         |    |        |      |
| TOTAL                            | SI,440,835      |    |        |      |

Table V.18 Summary of Size of the Dudley Square Commercial Area

#### SOURCE:

### Topographic and Planimetric Survey City of Boston, 1961 April

Therefore, the total square footage of the Dudley Square Commercial Area is a little less than 1.5 million square feet. The average cost of land for the total area is therefore, \$2,897,300 divided by 1,446,835 square feet or \$2.00 per square foot by <u>assessed</u> valuation.

The area contains a total of 236 parcels (the units of assessment of the City of Boston's Assessor's Office). The average ownership is therefore 236 divided by 112 or 2.1 parcels per landlord. There are a total of 112 landlords of the area.

### Ownership Structure of Real Property

The ranking of ownership can be defined by class, as follows:

| Table V.19 |    |              |      |          |    |       |
|------------|----|--------------|------|----------|----|-------|
| Ranking    | of | Ownership of | Real | Property | by | Class |

| Class                   | Assessed Valuation |
|-------------------------|--------------------|
|                         |                    |
| Public Agencies         | \$2,289,700        |
| Realty Trusts           | 1,745,300          |
| Individuals             | 820,100            |
| Non-retail Companies    | 420,500            |
| Commercial Banks        | 337,766            |
| Social Service Agencies | 194,200            |

SOURCE:

Assessor's List of Property City of Boston, 1974

Public agencies own the largest share, at 36%. Realty trusts follow at 27%. Individuals are third at 13%. Non-retail companies own 7%; commercial bands own 5%; and social service agencies own a measly 3%.

The breakdown within each class follows. First, the public agencies:

| Table V.20 |    |           |    |        |          |
|------------|----|-----------|----|--------|----------|
| Ranking    | of | Ownership | of | Public | Agencies |

### Agency

| Agency  | Assessed Valuation |
|---|--------------------|
| City of Boston                                  | \$1,201,400        |
| Massachusetts Bay Trans-<br>portation Authority | 959 <b>,</b> 700   |
| Boston Redevelopment<br>Authority               | 128,600            |
| Department of Public<br>Works                   | 800                |

#### SOURCE:

Assessor's List of Property, City of Boston, 1974

The BRA is not the largest landlord -- rather, the City of Boston is with 19% of the total assessed value. The MBTA is second with 15% of the total assessed value.

The structure of the realty trusts is as follows:

- 149 -

Table V.21 Ranking of Ownership of Realty Investment Trusts (over \$20,000)

#### Realty

#### Assessed Valuation

| Weinstein, Saul Trusts       |
|------------------------------|
| Dudley Realty Trusts         |
| Green Milton Trusts          |
| Chase, Theodore Trusts       |
| Rees, Lillie G. Trustee      |
| Saltzberg, Harry M.          |
| Perry, Helen M. Trust        |
| Shaffer, Abraham Trust       |
| Berwick Realty Corp.         |
| Blue Hill Avenue Association |
| American Realty Syndicate    |
| Hershenson, David N. Trusts  |
| Tab Associates               |
| Rink Realty, Inc.            |
| Morris Maria Trust           |
|                              |

\$265,000 208,500 190,000 182,000 165,000 148,000 140,000 102,000 90,000 84,000 53,300 40,000 29,500 25,400 22,000

SOURCE:

Assessor's List of Property City of Boston, 1974

Each of seven realty trusts own more than the BRA. However, the largest landlord of commercial property only tops \$250,000. The range of realty trust holdings is evenly distributed.

The holdings of individuals follows:

|          | Table V                      | .22                     |                 |
|----------|------------------------------|-------------------------|-----------------|
|          | Ranking of Ownershi          | <u>p of Individuals</u> | (over \$20,000) |
| Ī        | Individual                   | Assessed Valu           | lation          |
| I        | evin, Henry                  | \$88,200                |                 |
| I        | ieberman, Shirley            | 88,200                  |                 |
| F        | Rosengard, Helen             | 65,000                  |                 |
| S        | chuurman, Gerrit             | 60,300                  |                 |
| P        | Popper, Helene G.            | 55,900                  | й.<br>С         |
| S        | wett, Herbert C.             | 50,000                  |                 |
| G        | olden, Harold                | 45,000                  |                 |
| C        | avallini, Anthony            | 43,300                  |                 |
| B        | arrett, Thomas               | 41,000                  |                 |
| В        | arron, Etta F.               | 37,000                  |                 |
| K        | ent, Herbert                 | 34,000                  |                 |
| G        | oldstein, Julius & Louis     | 32,000                  |                 |
| C        | alvey, Charles J.            | 30,000                  |                 |
| C        | ohen, Joseph                 | 27,000                  |                 |
| R        | othenbert, Suzanne etal      | 27,000                  |                 |
| C        | alianos, Theodore            | 25,000                  |                 |
| C        | unningham, John etal         | 25 <b>,</b> 000         |                 |
| Н        | orowitz, Harold L. etal      | 25 <b>,</b> 000         |                 |
| В        | recher, Murray               | 21,200                  |                 |
| SOURCE : | Assessor's List of Property, | City of Boston,         | 1974            |
|          |                              |                         |                 |

The predominance of Jewish landholders reflect the past history of a Jewish Roxbury. Very little of this land has been sold to blacks in the present black Roxbury. The landlord with the largest holdings does not top \$90,000. The average holding of landlords is \$43,163, compared to an average holding of landlords -- all in the over \$20,000 bracket.

The ownership of non-retail companies is as follows:

| Table   | V.23  |
|---|---|
| Ranking of Ownership of   | Non-retail Companies                              |
| Non-retail Companies  | Assessed Value                                    |
| Webster Atlas Bldg. Corp.<br>Walcott Corporation<br>High Voltage Engineering Corp.<br>American Oil Company<br>Circle Supply Company | \$209,000<br>88,200<br>50,000<br>32,000<br>20,300 |

SOURCE: Assessor's List of Property

City of Boston, 1974 The non-retail company with the largest holding is far above the

others at \$200,000 plus. Very few manufacturing firms own their own land and building. Similarily, very few retail firms own their own land and building. Rather, most of this land is owned by realty trusts and individuals.

The holdings of the commercial banks follows:

Table V.24 Ranking of Ownership of Commercial Banks

| •                              |                |
|--------------------------------|----------------|
| Commercial Bank                | Assessed Value |
| First National Bank            | \$129,800      |
| Eliot Savings Bank             | 95,900         |
| National Shawmut Bank          | 91,500         |
| Boston Five Cents Saving Bank/ | -              |
| State Street Bank              | 20,566*        |
|                                |                |

SOURCE: Assessor's List of Property, City of Boston, 1974 \*NOTE: both banks are housed in the same building. Both the building and land, in turn, are owned not by the banks, but by Webster Atlas Building Corporation. The holdings of the social service agencies are as follows:

Table V.25Ranking of Ownership of Social Service AgenciesSocial Service AgencyAssessed Value

| SOCIAL SELVICE Agency           | Assessed           | vai |
|---------------------------------|--------------------|-----|
| Boy's Club                      | \$123 <b>,</b> 500 |     |
| Opportunities Industrialization |                    |     |
| Center                          | 40,000             |     |
| Salvation Army                  | 30,700             |     |

SOURCE:

Assessor's List of Property City of Boston, 1974

The Boy's Club of Roxbury leads the land holdings far and away above the other social service agencies at almost \$125,000.

The holdings of the top landlords regardless of class follows:

|         |    |     | Tab  | ole V.26  |          |             |            |
|---------|----|-----|------|-----------|----------|-------------|------------|
| Ranking | of | Тор | Land | Owners by | Assessed | Value(above | \$100,000) |

Assessed Value

#### Land Owner

| City of Boston            | \$1,201,400      |
|---------------------------|------------------|
| MBTA                      | 959 <b>,</b> 700 |
| Weinstein, Saul Trusts    | 265 <b>,</b> 000 |
| Webster Atlas Bldg. Corp. | 209,000          |
| Dudley Realty Trusts      | 208,500          |
| Green Milton Trusts       | 190,000          |
| Chase, Theodore Trust     | 182,000          |
| Rees, Lillie G. etal      | 165,000          |
| Saltzberg, Harry M.       | 148,000          |
| Perry, Helen M. Trust     | 140,000          |
| First National Bank       | 129,800          |
| BRA                       | 128,600          |
| Boy's Club                | 123,500          |
| Shaffer, Abraham Trust    | 102,600          |

SOURCE:

Assessor's List of Property City of Boston, 1974

We see that Saul Weinstein Trusts is the largest private landlord in the Dudley Square commercial area. Webster Atlas Bldg. Corp. and Dudley Realty Trust are just about tied for second. Land Ownership of Retail Business: Absentee Ownership

Only the following stores can be identified as businesses which are owned by the same individual who owns the land and building:

|                               | Table V.27                   |                              |
|-------------------------------|------------------------------|------------------------------|
| Retail                        | Businesses With the Same     | Owners as the Land           |
|                               | Owner of                     | Owner of                     |
| Business                      | Business                     | the Land                     |
| Brown, Herbert                | Brown, Herbert               | Brown, Herbert               |
| Don Mar Co.<br>National Radio | Aronson, Marv                | Aronson: Samuel              |
| & T.V.                        | Cohen, Joseph                | Cohen, Joseph                |
| Roxbury Tav <b>err</b><br>THC | Abreu, Joseph<br>Cohen, Paul | Abreu, Joseph<br>Cohen, Paul |

SOURCE:

Dun and Bradstreet, Market Indicators, Dec., 1973 Assessor's List of Property, City of Boston, 1974

This list is tenuous. It represents a survey of only 27 businesses which could be matched up with land addresses. 40 businesses could not be matched (the cataloging system is mismatched). However, the results are indicative. No major retail store seems owned by the same party which owns the land and building of the store. (with the identifiable exception of National Radio and T.V., a store with an annual sales volume of \$125,000). Blair's Supermarket, for example, is owned by Alfonzo Clarke, but its land and building is owned by Dudley Realty Trust. In short, absentee ownership is overwhelmingly dominant.

Ranking of Land Value

A ranking of only the land according to its assessed value reveals the following:

- 153 -

|            | Table V.28            |                |                |
|------------|-----------------------|----------------|----------------|
| Ranking of | Land by Assessed Valu | e (in Parcels) | (over \$50,000 |

| Parcel                         | Assessed  | Value |
|--------------------------------|-----------|-------|
| 25 Warron St                   | \$265.000 |       |
| 135 Dudley St                  | 202,000   |       |
| 2343.2345 Washington St.       | 110,500   |       |
| 130 Dudlev St.                 | 101,700   |       |
| 2120 Ruggles St. $+$ 2201,2209 |           |       |
| Washington St.                 | 84,700    |       |
| 2301 Washington St.            | 80,000    |       |
| 2261,2275 Washington St.       | 71,400    |       |
| 2315,2337 Washington St.       | 68,100    |       |
| 1,15 Warren St.                | 66,000    |       |
| 2249,2259 Washington St.       | 63,500    |       |
| 2109,2115 Washington St.       | 62,000    | •     |
| 2173,2181 Washington St.       | 59,900    |       |
| 2121,2131 Washington St. +     |           |       |
| No Cor Dade                    | 54,200    |       |
| 2235,2241 Washington St.       | 53,900    |       |
|                                |           |       |

SOURCE:

### Assessor's List of Property City of Boston, 1974

No valuation of the impact of the new investment project on the land ownership is made. This is because neither costing, of building construction, nor of the potential market rents was made. Therefore, no estimates of the land value was derived.

#### Summary:

If the business meets our projections, the investment package will establish #4,#5,#6, and #12 businesses in the existing retail sector (by sales). This constitutes a major impact of **th**e retail sector.

No cost data has been made yet to analyze the lan value ranking.

### - 154 -

# CHAPTER VI:

# Conclusions to Volume I:

An Evaluation of:

Principles, Objectives, Strategies, and Methodlogy <u>Introduction</u> While our analysis is only half done, our work so far has produced some substantial results. Let us review our findings at this point. Clearly some assertions and questions must await the second half of the analysis to arrive at final conclusions.

#### PART I:

#### Intermediate Results of the Application of the Theory

Our strongest results are in the marketing principle 2. The public intervention principles of one (1) and five (5) are strong, but await further results.

Principle I: That social overhead capital ( ) should be invested in projects that will induce directly productive actively (DPA) investment.

We have identified a potentially viable -DPA process of joint development of the transportation plan with retail development. The transportation plan, however, has not been fully costed. We do not have the estimates for street widening, traffic lights and mini-bus operation. Further, we do not know if joint development is financially feasible as well as market feasible. This awaits Volume II.

<u>Principle II:</u> Investment must capture consumer expenditures for reinvestment or distribution back into the ghetto economy.

The market analysis clearly demonstrates the substantial recapture potential of consumer expenditures now leaking out of the community. This potential is about 8.7% of a total of \$52,990,240.00 projected for 1980.

Principle III: DPA investment must be aimed at import substitution at backward linkage.

- 157 -

Backward linkage into food and auto supplies wholesale appears feasible if retailers other than those in the investment pa age are recruited as buyers.

Principle IV: Both private and public investment and public subsidy must be tied to place.

The potential for subsidy is clearly established for the joint development project. The costing of the subsidy, and the determination of the financial feasibility of the proposed commercial enterprises awaits the financial analysis.

Principle V: First, land development, and second, capital formation, are used as a trigger for a sequence of investments.

Aside from the new transit station, land development is a possible project. Costing of the land assembly awaits the financial analysis. Capital formation is to be analyzed in Volume II. Fulfillment of the Objectives of Community Economy Development

<u>Objective I</u>: The establishment of community institutions for the economic development, the political empowerment and the social evolvement of the ghetto community.

The community institution of backward integration appears to be market feasible.

Objective II: The generation and redistribution of income for and to community residents through community-based economic activity.

No determination of business profits, wages or commodity prices is yet made. The first two will be determined in the financial analysis. Objective III: The development and redistribution of capital and of ownership of community based economic activity for and community residents.

No determination of equity requirement is made. See vol II.

Objective IV: The development of human capital through the development of internal labour markets of skills training entrepreneurial development and management responsibility of community residents in community economic and political activity.

Entrepreneurship, management, and labour will all be needed in varying mixes in the new investment package. No determination of these factors have been made (except for the estimated 210 jobs).

Objective V: The development of ownership of land and control over its use within (and adjacent to) the boundaries of the ghetto community.

The total area of the two proposed land development projects are 52,450 - 66,345 square feet. The site is a prime site for development and of strategic important as a community commercial center. PART II: Intermediate Evaluation of the Circle Strategy

Strategy Element 1: Use of transit construction to stimulate commercial development.

Transit construction appears feasible. Adequate transit finance is available, but for the state matching grant. <u>Strategy Element 2</u>: Commercial development at the transit nodes.

Commercial development at the new Dudley Square Transit station is market feasible.

Strategy Element 3: Spine development along the transit line.

Neighborhood retail development is severly limited by commercial development at Dudley. Greater potential may exist closer to Grove Hall.

Strategy Element 4: Land bank or land trust at a transit node. This awaits a financial analysis.

Stratege Element 5: Debt bank to finance the commercial development.

This awaits financial analysis.

PART II: Market Feasible Development Program

The market feasible development program is recapitulated below:

<u>Program Recommendation 1</u>: That a <u>mass transit subway</u> be constructed from the Ruggles St. station of the new orange line along the cleared land of the rejected Boston Inner Belt with a station at Dudley Square, then turn South along Blue Hill Avenue to Grove Hall.

<u>Program Recommendation 2</u>: That a <u>TOPICS</u> program be instituted that would convert the Dudley Square commercial area into a pedestrian bus mall. Washington St. and Warren St. would be closed off to cars and trucks between Dudley St. and Sterling St. Sterling St. would be widened to handle two-way traffic. All side streets leading into Washington St. and Warren'St. would be dead-ended. Program Recommendation 3: That a demand responsive transportation system be instituted on an experim ental basis with a mini-bus fleet of at least 1 manyOto-one and at least 1 many-to-few types. Program Recommendation 4: That Circle Venture Capital Fund, Inc. consider seriously investment into the following community scale retail stores: of large size - passenger car dealer (s); of medium size - upermarket, meat market, drug store, junior department store, women's shoe store, men's and boy's shoe store, dry cleaners, laundromat and a gasoline service station.

<u>Program Recommendation 5</u>: That Circle Venture Capital Fund, Inc. conduct further market research into the following <u>wholesale</u> stores as potential investment: food distribution and authomobile and auto supplies wholesalers.

<u>Program Recommendation 6</u>: That Circle Venture Capital Fund, Inc. consider the following alternative <u>sites</u> for the retail development, in order of their decreasing preference:

> site 1: site of the new Dudley Square Transit Station, site 2: site bounded by Shawmut Ave., Ruggles St., Washington St. and Sterling St. (or the New Crosstown Street), site 3: site of the old Dudley Station terminal.
#### PART III: Criticism of the Methodology of the Study

We shall separate the criticism of the methodology of this study into two sections. The first will deal solely with the market analysis on its own grounds. The criticism will therefore be sharp but limited in scope. The second section will deal with the more fundamental criticism of the market assumptions underlying the market analysis which serve to undermine the fulfillment of the objectives of community economic development as well as that of market development. The criticism is therefore deeper and broader in scope.

#### A. Criticism of the Market Anslysis on its own Grounds

The following five areas of the market study need further methodological study:

(1) <u>Special mobility study</u> - It would be valuable to conduct further survey work to secure data that links mode of shopping used directly to retail category. Further, some basis is needed to estimate increase in shipping by mode, area, and income. These are key demand elasticities that were mission from the transportation marketing study.

The linkage of other retail shopping to grocery shopping by trip and by area is also missiong data. Finally, key trading neighborhoods that supply shoppers to Dudley Square were not included in the survey data. Noteworthy among these is Columbia Point, supplying shoppers due to the failure of John Hancock Life Insurance Co.'s Bay Side Mall.

(2) <u>Consumer study</u> - No survey was made of consumer buying havits due to the limit on time and budget for the study. Circle needs a consumer study to double check the results of those used in this study. Is black consumption the same as white consumption

#### - 161 -

across retail category and income? This study has assumed it is. What are the special black tastes that would require new retail categories or an altered consumption of present retail categories? Would Black nationalism or a community-controlled retail store tend to increase its potential market?

Further changes have occured in the income effects of consumer buying habits since the BLS survey of 1962. The key change is due to inflation and the energy crisis, which have increased expenditures on food and gas, particularly among the poor. This in turn has decreased expenditure on luxury items. We have assumed no long-term (i.e., 6-8 years) significance can be attached to the inflation of commodity prices of a few categories in the context of future projections. Any number of factors can change that make the formulation of a dynamic model of consumer growth difficult. Still a consumer survey is needed to double check our results.

(3) <u>Competition Study</u> - No direct study was made of the affect of competition on the market feasibility of the investment project. That is, what affect will competition have of the Fenway, Waltham Supermarket, the VFW Shopping Mall, Columbia Point Bayside Mall, Grove Hall and Uphams Corner commercial centers have on Dudley Station commercial center? We have defined our trading area small enough to tend to minimize this competitive affect. This should, however, be checked.

Another competition question is local. That is, what would be the impast on existing small businesses within the primary trade area caused by the establishment of the new shopping center? We have assumed that this impact is small, yet it may be larger than expected.

- 162 -

Thirdly, what will the competitive effect of the increased transportation service? That is, will consumers choose to shop outside of Roxbury due to the better transportation service?

(4) <u>Investment Package</u> - The investment package tends to be a conservative estimate of the market potential of commercial development in Dudley Square. No significant account is taken of the potential to take advantage of the black population of its trading area.

To go even further, no effort is made to market to <u>both</u> black and white consumers, as does the VFW Highway shopping center. What would be the market feasible investment package for both these cases?

(5) <u>Impact of Finance on Market Feasibility</u> - This study has made a sharp bias in favor of independents and away from chains. Enough data exists for an objective analysis of both within this study. However, the trade-off, for example, of Triple A prime tenants with independents has not been directly studied. The example of Progress Plaza, a CDC owned shopping center in Philadelphia, is a model of the use of independents as prime tenant that succeeded in turning a profit. Will this work in Roxbury? We have agreed that it will.

Further, the possibility of subsidy of costs may make several more retail stores feasible that could not survive without it in the current market. We have assumed that subsidy is enough to make a low-profit enterprise appealing to entrepreneurs, but not enough to make a below marginal business sound.

Third, can non-profit operations make other retail stores that are not market feasible as profit-making operations feasible?

B. <u>Criticism of the Market Analysis on the Grounds of Community</u> Economic Development Volume I to a large degree has used market analysis as the central technique in project investment analysis. In effect, we have tried to start from a market analysis of commercially feasible retail investments and back into a cost/benefit analysis of broad economic merits of that investment package. Vis-a-vis mass transportation, mass transit facilities were analyzed to compare the increase in retail sales from the location of the routes of the transit line with the capital costs of construction of that transit line. Vis-a-vis commercial development, retail stores were analyzed to derive an estimate of the benefit of employment by retail category. Both of these analyses are preliminary. Further, the analytic framework for a cost/benefit analysis in a more full-blown treatment was introduced. Volume II, then, would use cost/benefit analysis as the central technique of project investment analysis as a sharp contrast to Volume I.

The economic assumptions underlying the market analysis, however, undermine the basic objectives of community economic development. These assumptions include the fixed state of consumer behavior, of the cost curves of retail firms, of pricing of goods, capital equipment, building and land, and of profit margins of retail businesses. In effect, they assume that the basic institutions governing the ghetto economy, such as the financial institutions, the real estate market and the retail market, remain the same.

The role of the CDC and of government into the commercial market in the ghetto are restricted to market actions. No newly created markets, for example of capital and of land, are generated. Similarly, no new organizations of Directly Productive Activities are undertaken and supported by the actions of the CDC and of the government.

The result of the static nature of the political economy of this CDC/government intervention into the ghetto economy implies that all action and organization operate within it. The power relations of

- 164 -

the institutions that govern the allocation of resources remain the same. The political economy, while it accomodates the CDC retail investment package, does not change after this intervention. These are serious criticisms.

In terms of the use of techniques for project investment analysis, several techniques are not used, or are given too low a priority in their governance of the investment analysis. Market analysis ignores linkage analysis, which may in fact increase the profit to DPA's through growth. Power analysis is ignored, which may reduce costs, perhaps increase profits of the DPAs. Economic benefits analysis of those benefits of DPAs other than profit is ignored. Benefits, such as manpower characteristics, may tend to weight the choice of DPA investments toward a DPA of less profitability that a market analysis would dictate choosing. DPAs themselves are not analyzed. No new organizations of production are analyzed which may increase the set of benefits to the ghetto community for a given unit of capital invested. Indeed, the market analysis as a technique fails to identify the objectives of community economic benefit and to analyze possible DPAs based on these objectives.

In view of this criticism, we strongly urge that Circle, Inc., and Circle Venture Capital Fund, Inc. take the results of the market analysis as only one part of a project analysis: one that identifies profitable retail investments only. More work on the identification of the final investment analysis is required.

In Volume II, we propose to turn around the priority of techniques in the project investment analysis, as well as expand the set of techniques to include those not used in Volume I. In effect, we will strive to convert the theory of cost/benefit analysis into a usable method. First, the objectives of community economic development outlined in Chapter I will be translated into a quantititative welfare function. The

- 165 -

different DPAs under analysis would be the object of several social discounted cash flows using shadow prices for underutilized resources. The social rate of return of this investment would be an indicator of acceptability of the DPA based on its total community economic benefits. The final set of acceptable DPAs would be the final investment package recommended.

Candidates for DPAs would be derived using all the four techniques described earlier. The market analysis which derived those DPAs with the consumer market and costs as they are that could generate a profit potential supportive of the new venture. The linkage analysis would examine those linked ventures in retail, wholesale and manufacturing that could increase profit and/or decrease consumer cost of purchased goods by decreasing costs and providing for future growth of sales. The power analysis would examine the pricing policy of institutions that could, if affected, increase benefits and decrease costs of the In particular, new institutions supported by the CDC and by DPAs. government that would establish new power relationships which, in turn, would increase net benefits to the ghetto community will be analyzed. Both the linkage analysis (horizontal as well as backward) and the power analysis could reduce scale economies markedly, in turn necessary for entry into the ghetto economy. Finally, the benefit analysis of DPA categories would define the benefits, particularly other than that of profit, that could accrue to the residents of the ghetto.

At the third stage of analysis, the financial analysis would show how much each DPA and the investment package as a whole would cost to finance. In particular, the financial analysis would show how much subsidy is required in order to make the new ventures feasible.

These three stages, then, comprise a true project investment analysis: identification of the investment package through market analysis,

- 166 -

linkage analysis, power analysis and benefits analysis as well as a study of new organizations of production; analysis of what to produce or to invest in through a cost/benefit analysis; and, and analysis of how much it will cost to finance and to subsidize through a financial analysis.

As a result of making both of the analyses of Volume I and of Volume II, we can then contrast the results and the ultimate usefulness of these two approaches. Such a comparison is essential for the introduction of a new set of techniques for use in a project investment analysis for work on such a large scale project as that of commercial development of Dudley Square. The theme for such a comparison will be to show that the hard results of a market analysis, though marked for the level of investment of CDC's, is not enough. Not only is market analysis and the investment package recommended by a market analysis not enough, but it tends to ignore meeting the non-profit oriented economic objectives of community economic development. To a certain extent, the problems which have created the ghetto economy would tend to be perpetuated by the investment into commercial enterprises alone. PART IV: Next Step of Analysis in Volume II - Other Work

In Volume II, as we said in the last Part, we will make a financial analysis and cost/benefit analysis of the investment package in addition to others. Since the financial analysis and the cost/benefit analysis are so crucial to a new institutional analysis, we will turn to a short discussion about their use.

The financialanalysis will first estimate development costs and operating expenses of each investment. Their financial projections for the life of the commercial project are made. These are all at market prices. Then, the two key trade-offs of equity vs debt, and of profit vs mortgage interst rate are analyzed. The judgment of the financial feasibility (or lack of it) is based on the capacity of the DPAs to operate in the black given these trade-offs. The output of these analyses will be the equity and debt finance required, the expected profit rate and mortgage interest rates necessary to finance the investments. Without the subsidy, the rate of return may likely be below market. Next, those below market investments are analyzed to identify the amount of subsidy necessary to given these investments the amount of profit (which could be zero for non-profit operations) needed to pay the entrepreneurs and/or owners (which may be a CDC in part who may require no return). Then with this subsidy, normally below market investments are made feasible.

Then, the investment package of DPAs becomes the portfolio of a development bank. The more profitable businesses may support the less profitable ones in order to make the institution operationally feasible and to increase the amount of benefits that accrue to the ghetto community. Additional subsidy for overhead of the bank may be required.

Similarly, the investment package of parcels of land required

- 168 -

for the establishment of the new DPAs also becomes the portfolio for a land bank. In a manner similar to the financial analysis of the development bank, we can analyze the finances of the land bank. Again, additional subsidy may be required. If a land bank fails to be feasible, then a land trust may be the best solution. A land trust would make no profit from the sale of parcels of land, and therefore all of its overhead would have to be paid out of the DPAs if the land trust demands below market rents and/or by the government.

The cost/benefit analysis will substititue "shadow prices" for market prices in order to utilize underused resources. This has the effect of weighing the selection of investments in favor of those that meet the objectives of community economic development. These new prices will be substituted into the financial projections to derive the social rate of return. The, the institution as a whole can be evaluated on the social bases as well as the financial (and presumably the social evaluation will dominate). Different combinations of the DPAs of the investment package can produce different portfolios for the development bank and for the land bank. One portfolio will very likely be more attractive than another. The key trade-off of profit and of other economic benefits can be analyzed in a manner similar to that for individual DPAs. Instead of DPAs, however, we will be analyzing portfolios. The outcome of this analysis would be to determine the net economic benefit to development banking and land banking or a land trust based on their investment into portfolios of DPAs and of land, respectively. The selection of these investments, however, will be constrained to those in the commercial development of Dudley Square.

Finally, the five areas of theory, technique, objectives, strategy and program will be reviewed in a manner like that of this concluding chapter in order to make final conclusions based on the data available and the analyses made herein.

#### APPENDICES I-III

The Numbers and Census that Support

the Analyses of Volume I

#### APPENDIX I: Market Analysis

#### Introduction

In Appendix I, Part I, we include the detailed analysis of market area characteristics by census tracts. The most important output of this analysis is the estimation of the future total disposable income of the trade area under varying assumptions (AI-4, I-5).

Several additional tables are included.

In Part II, we include the detailed analysis of the retail market by trade area segments. This most important output is also an estimation of the future retail expenditures under varying assumptions.

#### PART I: Market Area Characteristics

Population and Income: 1970

| Primary<br>Census<br>tract  | trade a<br>s<br><u>pop</u>   | area<br>under<br>\$2999   | ta<br>\$3000-<br>\$5999  | <b>tal</b> far<br>\$6000-<br><u>\$8999</u>                                | m <b>ilies</b><br>\$9000-<br><u>\$11,999</u>                          | \$12,000-<br><u>\$14,999</u>   | \$15,000<br>and +  | median<br><u>fam inc</u> .   |
|---|--|---|--|---|---|--|--|--|
| 803<br>804<br>805<br>806<br>807<br>808<br>816<br>817  | 3,285<br>1,626<br>1,427<br>1,889<br>528<br>2,864<br>1,049<br>4.727   | 148<br>100<br>132<br>35<br>165<br>38<br>197                                       | 243<br>157<br>102<br>149<br>18<br>261<br>32<br>296                           | 109<br>60<br>52<br>108<br>11<br>84<br>67<br>230                           | 110<br>49<br>41<br>31<br>5<br>59<br>48<br>164                         | 62<br>4<br>10<br>26<br>8<br>30<br>9<br>105   | 39<br>7<br>15<br>13<br>41<br>17<br>94                                | \$5,532<br>\$4,388<br>\$4,850<br>\$4,849<br>\$5,272<br>\$4,473<br>\$7,574<br>\$6,625                       |
| Subtot  | 17,395   | 915   | 1258   | 721   | 507   | 254  | 229 💈  | 3 <b>88</b> 9  |
| Secondar<br>103 <sup>1</sup><br>104<br>708<br>709<br>710<br>711<br>801<br>813<br>814<br>815<br>818<br>906 | ry trade<br>3,056<br>9,627<br>2,305<br>2,120<br>1,369<br>725<br>748<br>4,048<br>2,419<br>2,906<br>3,811<br>2,602 | area<br>73<br>52<br>110<br>37<br>24<br>11<br>35<br>144<br>122<br>87<br>156<br>168 | 81<br>289<br>107<br>163<br>42<br>16<br>53<br>236<br>114<br>149<br>259<br>182 | 47<br>221<br>76<br>81<br>55<br>11<br>31<br>193<br>97<br>151<br>155<br>122 | 26<br>157<br>68<br>32<br>6<br>8<br>27<br>154<br>84<br>83<br>151<br>89 | $   \begin{array}{r}     10 \\     105 \\     32 \\     - \\     19 \\     7 \\     11 \\     104 \\     36 \\     68 \\     53 \\     52 \\   \end{array} $ | 13<br>86<br>28<br>19<br>12<br>13<br>20<br>59<br>29<br>77<br>82<br>35 | \$4,647<br>\$7,347<br>\$5,824<br>\$5,468<br>\$6,464<br>\$7,545<br>\$6,075<br>\$6,075<br>\$6,276<br>\$5,720 |
| Subtot  | 35,736   | 1019  | 1691   | 1340  | 88 <i>5</i>   | 497  | 473  |  |
| TOTAL   | 53,131   | 1934  | 2949   | 2061  | 1392  | 751  | 702 =  | 9789   |

Source: United Community Services, <u>1970 Census of Population and</u> <u>Housing Summary Data</u>, UCS Research Department, 14 Somerset St. Boston

Half of the census tract.

Population and Income Projections: 1980 Core Decline (1970 \$s)

| Factors: | 100's         | 51,300/54,000 | <b>= .</b> 95 |
|----------|---------------|---------------|---------------|
|          | 700 <b>'s</b> | 22,900/21,700 | =1.05         |
|          | 800 <b>'s</b> | 61,300/63,000 | = •97         |
|          | 900 <b>'s</b> | 86,800/90,800 | <b>= .</b> 96 |

| Census<br>tract | pop      | under<br>\$2999 | \$3000-<br><u>\$5999</u> | \$6000-<br><u>\$8999</u> | \$9000-<br><u>\$11,999</u> | \$12,000-<br><u>\$14,999</u> | \$15,000<br>and + | average<br>fam inc              |
|-----------------|----------|-----------------|--------------------------|--------------------------|----------------------------|------------------------------|-------------------|---------------------------------|
| 803             | 3,196    | 144             | <b>23</b> 6              | 106                      | 107                        | 60                           | 38                |                                 |
| 804             | 1,582    | 97              | 153                      | <i>5</i> 8               | 48                         | 4                            | 3                 |                                 |
| 805             | 1,388    | 97              | 99                       | 51                       | 40                         | 10                           | 7                 |                                 |
| 806             | 1,838    | 128             | 145                      | 105                      | 30                         | 25                           | 15                |                                 |
| 807             | 514      | 34              | 18                       | 11                       | 5                          | 8                            | 13                |                                 |
| 808             | 2,787    | 161             | 254                      | 82                       | 57                         | 29                           | 40                |                                 |
| 816             | 1,021    | 37              | 31                       | 65                       | 47                         | 9                            | 17                |                                 |
| 817             | 4,599    | <u>192</u>      | _288                     | 224                      | 160                        | 102                          |                   |                                 |
| Subtot          | 17,010   | 895             | 1230                     | 705                      | 496                        | 248                          | 224               | \$6,291                         |
| Secondar        | ry trade | e area          |                          |                          |                            |                              |                   |                                 |
| 103             | 2,903    | 69              | 77                       | 45                       | 25                         | 10                           | 12                |                                 |
| 104             | 9,146    | 49              | 49                       | 210                      | 149                        | 100                          | 82                |                                 |
| 708             | 2,189    | 105             | 101                      | 72                       | 64                         | 30                           | 26                |                                 |
| 709             | 2,014    | 35              | 154                      | 76                       | 30                         | -                            | 18                |                                 |
| 710             | 1,098    | 23              | 39                       | 52                       | 5                          | 18                           | 11                |                                 |
| 711             | 1,300    | 10              | 15                       | 10                       | 8                          | 6                            | 12                |                                 |
| 801             | 732      | 34              | 52                       | 30                       | 26                         | 11                           | 19                |                                 |
| 813             | 3,958    | 141             | 231                      | 2 <b>8</b> 6             | 151                        | 102                          | 57                |                                 |
| 814             | 2,365    | 120             | 119                      | 140                      | 82                         | 35                           | 28                |                                 |
| 815             | 2,842    | 150             | 140                      | 140                      | 140                        | 60<br>50                     | 72                |                                 |
| 812             | 3,121    | 160             | 2))<br>175               | 117                      | 140                        | 52                           | 33                |                                 |
| 906             | 2,500    | 102             | <u>_1()</u>              | (                        |                            | 0                            |                   | Anno ann an t- Connaga agus ann |
| Subtot          | 34,774   | 9 <b>8</b> 6    | 1411                     | 1292                     | 854                        | 480                          | 453               | \$7,467                         |
| TOTAL           | 51,784   | 1881            | 2641                     | 1997                     | 1350                       | 728                          | 677               | \$7,014                         |

Population and Income Projections: 1980 Trends Extended (1970 \$s)

| Factors: | 100's         | 56,700/54,000 | = | 1.05 |
|----------|---------------|---------------|---|------|
|          | 700's         | 23,090/21,700 | = | 1.06 |
|          | 800's         | 63,300/63,000 | = | 1.01 |
|          | 900 <b>'s</b> | 88,000/90,800 | = | •97  |

| Census<br>tract  | pop  | und <b>er</b><br>\$2999   | \$3000-<br><u>\$5999</u>   | \$6000-<br><u>\$8999</u>  | \$9000-<br>\$11,999   | \$12,000-<br>\$14,999  | \$15,000<br>and +  | average<br>fam inc |
|--|--|---|--|---|---|--|--|--------------------|
| 803<br>804<br>805<br>806<br>807<br>808<br>816                                    | 3,301<br>1,634<br>1,434<br>1,898<br>531<br>2,878<br>1,054  | 149<br>100<br>133<br>35<br>166<br>38                                | 244<br>158<br>103<br>150<br>18<br>262<br>32                                  | 110<br>60<br>52<br>109<br>11<br>84<br>67                                  | 111<br>49<br>41<br>31<br>59<br>48                                     | 62<br>4<br>10<br>26<br>30<br>9                                       | 39<br>3<br>7<br>15<br>13<br>41<br>17                           |                    |
| Subtot   | 17,482   | <u>190</u><br>920   | <u>- 297</u><br>1264   | 725   | <u>105</u><br>510   | 255  | <u> </u>   | \$6,487            |
| Secondar   | ry trade   | e area  |  |   |   |  |  |                    |
| 103<br>104<br>708<br>709<br>710<br>711<br>801<br>813<br>814<br>815<br>818<br>906 | 3,209<br>10,108<br>2,443<br>2,247<br>1,451<br>768<br>7,52<br>4,068<br>2,431<br>2,921<br>3,830<br>2,615 | 76<br>55<br>117<br>25<br>12<br>35<br>145<br>123<br>87<br>157<br>169 | 85<br>303<br>113<br>173<br>45<br>17<br>53<br>237<br>115<br>150<br>260<br>183 | 49<br>232<br>81<br>86<br>58<br>12<br>31<br>294<br>97<br>152<br>156<br>122 | 27<br>164<br>72<br>34<br>6<br>8<br>27<br>155<br>84<br>83<br>152<br>89 | 11<br>110<br>34<br>-<br>20<br>7<br>11<br>105<br>36<br>68<br>53<br>52 | 14<br>90<br>20<br>13<br>14<br>20<br>59<br>29<br>77<br>82<br>35 |                    |
| Subtot   | 36,843   | 1040  | 1734   | 1370  | 901   | 507  | 483  | \$7,356            |
| TOTAL  | 54,325   | 1960  | 2998   | 2095  | 1411  | 762  | 713  | \$7,015            |

Population and Income Projections: 1980 Core Intensive (1970 \$s)

| Factors: | 100's         | 59,400/54,000 | = | 1.11 |
|----------|---------------|---------------|---|------|
|          | 700's         | 7889/6519     | = | 1.21 |
|          | 800 <b>'s</b> | 65,000/63,300 | = | 1.03 |
|          | 900 <b>'s</b> | 92,000/90,800 | = | 1.01 |

| Census<br>tract | s<br><u>pop</u> | under<br><u>\$2999</u> | \$3000-<br><u>\$5999</u> | \$6 <b>000-</b><br><u>\$8999</u> | \$9000-<br>\$11,999 | \$12,000-<br>\$14,999 | \$15,000<br>and + | average<br>fam inc                       |
|-----------------|-----------------|------------------------|--------------------------|----------------------------------|---------------------|-----------------------|-------------------|--|
| 803             | 3,384           | 152                    | 250                      | 112                              | 113                 | 64                    | 40                |  |
| 804             | 1,675           | 103                    | 162                      | 62                               | 51                  | 4                     | 3                 |  |
| 80 <i>5</i>     | 1,470           | 103                    | 105                      | 54                               | 42                  | 10                    | 7                 |  |
| 806             | 1,946           | 136                    | 153                      | 111                              | 32                  | 27                    | 15                |  |
| 807             | 544             | <u> </u>               | 19                       | 11                               | 5                   | 8                     | 13                |  |
| 808             | 2,950           | 170                    | 269                      | 87                               | 61                  | 31                    | 42                |  |
| 816             | 1,080           | 39                     | 33                       | 69                               | 49                  | 9                     | 17                |  |
| 817             | 4,869           | <u>203</u>             |                          | 237                              | 169                 | 108                   | _97               |  |
| Sub to t        | 17,917          | 942                    | 1296                     | 743                              | 527                 | 262                   | 236               | \$6 <b>,</b> 469                         |
| Secondar        | ry trade        | e area                 |                          |                                  |                     |                       |                   | • • •                                    |
| 103             | 4,370           | 104                    | 116                      | 67                               | 37                  | 14                    | 19                |  |
| 104             | 13,767          | 74                     | 413                      | <b>3</b> 16                      | 225                 | 150                   | 123               |  |
| 708             | 2,789           | 133                    | 129                      | 92                               | 82                  | 39                    | 34                |  |
| 709             | 2,565           | 45                     | 197                      | 98                               | 39                  |                       | 23                |  |
| 710             | 1,656           | 29                     | 51                       | 67                               | 7                   | 23                    | 15                |  |
| 711             | 877             | 13                     | 19                       | 13                               | 10                  | 8                     | 16                |  |
| 801             | 770             | 36                     | 55                       | 32                               | 28                  | 11                    | 21                |  |
| 813             | 4,169           | 148                    | 243                      | 302                              | 159                 | 107                   | 61                |  |
| 814             | 2,492           | 126                    | 117                      | 100                              | 87                  | 37                    | 30                |  |
| 815             | 2,993           | 90                     | 153                      | 156                              | 85                  | 70                    | 79                |  |
| 818             | 3,925           | 101                    | 267                      | 160                              | 156                 | 55<br>59              | 84                |  |
| 906             | 2,628           | _170                   | _184                     | 123                              | 90                  |                       |                   | an a |
| Subtot          | 43,001          | 1129                   | 1944                     | <b>152</b> 6                     | 1005                | 567                   | 540               | \$7 <b>,3</b> 82                         |
| TOTAL           | 60,918          | 2071                   | 3240                     | 2 <b>2</b> 69                    | 1532                | 829                   | 776               | \$7,050                                  |

### Total Disposable Income: 1970

Primary trade area

| Commu-<br>nity                 | under<br>\$2999             | \$3000-<br>\$5999      | \$6000-<br>\$8999      | \$9000-<br>\$11,900    | \$12,000-<br><b>\$14,999</b> | \$15,000<br>and +      |
|--------------------------------|-----------------------------|------------------------|------------------------|------------------------|------------------------------|------------------------|
| Roxbury                        | 1,372,500                   | 5,661,000              | 5,407,500              | 5,323,500              | 5,429,000                    | 4,007,500              |
| Secondary trad                 | ie area                     |                        |                        |                        | :                            |                        |
| Back Bay<br>South End          | 187,500<br>2 <b>7</b> 3,000 | 1,665,000<br>1,476,000 | 2,010,000<br>1,672,500 | 1,921,500<br>1,197,000 | 1,552,500<br>783,000         | 1,732,500<br>1,260,000 |
| /Parker Hill<br>North          | 816,000                     | 3,649,500              | 5,452,500              | 5,239,500              | 3,672,000                    | 4,672,500              |
| Dorchester                     | 252,000                     | 819,000                | 915,000                | 934,500                | 702,000                      | 612,500                |
| Subtotal: sec<br>Subtotal: whl | 1,528,500<br>2,901,000      | 7,609,500<br>13270 000 | 10050 000<br>15457 500 | 9,292,500<br>14616 000 | 6,709,500<br>10138 500       | 8,277,500<br>12285 000 |

TOTAL \$68,668,500

Total Disposable Income: 1980 Core Decline

Primary trade area

| Commu-<br>nity                 | under<br>\$2999        | \$3000-<br>\$5999      | \$6000 <b>-</b><br>\$8999       | \$9000-<br>\$11,900    | \$12,000-<br>\$14,999  | \$15,000<br>and +      |
|--------------------------------|------------------------|------------------------|---------------------------------|------------------------|------------------------|------------------------|
| Roxbury                        | 1,372,500              | 5,535,000              | 5,287,500                       | 5,208,000              | 3,348,000              | 3,920,000              |
| Secondary tra                  | de area                |                        |                                 |                        |                        |                        |
| Back Bay<br>South End          | 177,000<br>259,500     | 567,000<br>1,390,500   | 1,912,500<br>1, <i>5</i> 75,000 | 1,827,000<br>1,123,500 | 1,485,000<br>729,000   | 1,645,000<br>1,172,500 |
| /Parker Hill<br>North          | 799,500                | 3,604,500              | 5,325,000                       | 5,325,000              | 5,124,000              | 3,591,000              |
| Dorchester                     | 243,000                | 787,500                | 877,500                         | 892,500                | 675,000                | 577,500                |
| Subtotal: sec<br>Subtotal: whl | 1,479,000<br>2,821,500 | 6,349,500<br>11884 500 | 9,690,000<br>14977 500          | 9,168,000<br>14175 000 | 8,013,000<br>9,828,000 | 6,986,000<br>11847 500 |
| TOTAL \$                       | 65,534,000             |                        |                                 |                        |                        |                        |

A 1-4

Total Disposable Income: 1980 Trends Extended

Primary trade area

| Commu-               | und <b>er</b> | \$3000 <b>-</b> | \$6000-        | \$9000-         | \$12,000-       | \$15,000-      |
|----------------------|---------------|-----------------|----------------|-----------------|-----------------|----------------|
| nity                 | \$2999        | \$5999          | \$8999         | <u>\$11,999</u> | <u>\$14,999</u> | and +          |
| Roxbury              | 1,380,000     | 5,688,000       | 5,437,500      | 5,355,000       | 3,442,500       | 4,025,000      |
| Secondary tr         | rade area     |                 |                |                 |                 |                |
| Back Bay             | 196,500       | 1,746,000       | 2,107,500      | 2,005,500       | 1,633,500       | 1,820,000      |
| South End            | 289,500       | 1,566,000       | 1,777,500      | 1,260,000       | 823,500         | 1,347,500      |
| Parker Hill<br>North | 820,500       | 3,667,500       | 5,475,500      | 5,260,500       | 3,685,000       | 4,672,500      |
| Dorchester           | 253,500       | 823,500         | <u>915.000</u> | <u>934,500</u>  | 702,000         | <u>612,500</u> |
| Subtotal:sec         | 1,560,000     | 7,803,000       | 10275 500      | 9,460,500       | 6,844,000       | 8,452,500      |
| Subtotal:wh1         | 2,940,000     | 13,491,000      | 15713 000      | 14815 500       | 10287 000       | 12477 500      |

**TOTAL** \$69,724,000

Total Disposable Income: 1980 Core Intensive

Primary trade area

| Commu-<br>nity                           | under<br>\$2999                   | \$3000 <b>-</b><br>\$5999          | \$60 <b>00-</b><br>\$8999                  | \$9000-<br>\$11,999                      | \$12,000-<br>\$14,999             | \$15,000<br>and +                 |
|--|-----------------------------------|------------------------------------|--|--|-----------------------------------|-----------------------------------|
| Roxbury                                  | 1,413,000                         | <i>5</i> ,832,000                  | 5,572,500                                  | 5,533,500                                | 3,537,000                         | 4,130,000                         |
| Secondary tr                             | ade area                          |                                    |  |  |                                   |                                   |
| Back Bay<br>South End<br>Mission Hill    | 267,000<br>330,000                | 2,380,500<br>1,782,000             | 2,872,500<br>2,025,000                     | 2,7 <i>5</i> 1,000<br>1,449,000          | 2,214,000<br>945,000              | 2,485,000<br>1,540,000            |
| <b>/Parker</b> H <b>ill</b><br>North     | 841,500                           | 3,757,500                          | 5,625,000                                  | 5,407,500                                | 3,780,000                         | 4,812,500                         |
| Dorchester<br>Subtotal:sc<br>Subtotal:wh | 255,000<br>1,693,500<br>3,106,500 | 828,000<br>8,748,000<br>14,500,000 | <u>922,500</u><br>11,445,000<br>17,017,500 | <u>945,000</u><br>10552 500<br>16086 000 | 715,500<br>7,654,500<br>11191 000 | 612,500<br>9,450,000<br>13580 000 |

TOTAL \$75,561,500

Race Distribution (as percentage of area): 1970

| Census     |                |                 |        | 0/P            |
|------------|----------------|-----------------|--------|----------------|
| tract      | pop            | black           | white  | <u>black</u>   |
| 803        | 3.285          | 2,552           | 700    | 77.7           |
| 804        | 1,626          | 1,504           | 75     | 92.5           |
| 805        | 1,427          | 1.354           | 56     | 94.9           |
| 806        | 1,889          | 1.703           | 133    | 90.2           |
| 807        | 528            | 309             | 211    | 58.5           |
| 808        | 2.864          | 1.251           | 1.575  | 43.6           |
| 816        | 1.049          | 852             | 185    | 81.2           |
| 817        | 4.727          | 4.419           | 2 57   | 93.5           |
| 01,        | ليتر الماني    |                 |        | <u>Andreas</u> |
| Subtota1   | 17,395         | 13,944          | 3,192  | 80.2           |
| <b>C</b> 1 |                |                 |        |                |
| Secondary  | trade          | area            |        |                |
| 103        | 6,112          | 1.340           | 4.709  | 22 1           |
| 104        | 9,627          | 653             | 8.606  | 6.8            |
| 708        | 2,305          | 1.930           | 310    | 83.7           |
| 709        | 2,120          | 1.653           | 407    | 78.0           |
| 710        | 1,369          | 257             | 999    | 18.8           |
| 711        | 725            | 102             | 580    | 14.1           |
| 801        | 748            | 261             | 468    | 34.9           |
| 813        | 4.048          | 2.795           | 1,161  | 69.0           |
| 814        | 2,419          | 1,225           | 1,153  | 50.6           |
| 815        | 2.906          | 2.287           | 582    | 78.7           |
| 818        | 3.811          | 3.340           | 415    | 87.6           |
| 906        | 2,602          | 956             | 1,574  | 36.7           |
| Subtotal   | <b>38,</b> 792 | 16 <b>,</b> 799 | 20,964 | 43.3           |
| TOTAL      | 56,187         | 30,743          | 24,156 | 54.7           |

Primary trade area

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Age Distribution (as percentage of area): 1970

| Census<br>tract | 5<br>p <b>o</b> p | 5 and<br>under | 6-20        | 21-64 | 64+  | %21-64 | %64+ |
|-----------------|-------------------|----------------|-------------|-------|--|--------|------|
|                 |                   |                |             |       |  |        |      |
| 8 <b>03</b>     | 3285              | 565            | 1135        | 1365  | 219  | 41.6   | 6.7  |
| 804             | 1626              | 337            | 679         | 517   | 92   | 31.8   | 5.7  |
| 80 <i>5</i>     | 1427              | 99             | 368         | 614   | 345  | 43.0   | 24.2 |
| 806             | 1889              | 294            | 657         | 7 52  | 186  | 39.8   | 9.8  |
| 807             | 528               | 39             | 96          | 274   | 118  | 51.9   | 22.3 |
| 808             | 2864              | 431            | 842         | 1129  | 462  | 39.4   | 16.1 |
| 816             | 1049              | 128            | 318         | 512   | . 91   | 48.8   | 8.7  |
| 817             | 4727              | 654            | 1632        | 2004  | 437  | 42.4   | 9.2  |
| Subtot          | 17395             | 2547           | 5727        | 7167  | 1950   | 41.2   | 11.2 |
| Secondar        | ry trade          | area           |             |       |  |        |      |
| 103             | 6112              | 252            | 3189        | 2428  | 240  | 39.7   | 3.9  |
| 104             | 9627              | 174            | 3526        | 4585  | 1338   | 47.6   | 13.9 |
| 708             | 2305              | 227            | 393         | 1378  | 307  | 59.8   | 13.3 |
| 709             | 2120              | 170            | 237         | 1434  | 279  | 67.6   | 13.2 |
| 710             | 1 <b>3</b> 69     | 41             | 30 <i>5</i> | 803   | 220  | 58.7   | 16.1 |
| 711             | 725               | 17             | 140         | 467   | 101  | 64.4   | 13.9 |
| 801             | 748               | 132            | 233         | 322   | 61   | 43.0   | 8.2  |
| 813             | 4048              | 565            | 1194        | 1924  | <b>3</b> 65                                    | 47.5   | 9.0  |
| 814             | 2419              | 277            | 546         | 1251  | 345  | 51.7   | 14.3 |
| 815             | 2906              | 342            | 829         | 1349  | <b>3</b> 86                                    | 46.4   | 13.3 |
| 818             | 3811              | 450            | 1124        | 1868  | 369  | 49.0   | 9.7  |
| 906             | 2602              | _367           | 772         | 1188  | <u>    27 5                               </u> | 45.7   | 10.6 |
| Subtot          | 38782             | 3014           | 12488       | 16621 | 4286   | 42.9   | 11.1 |
| TOTAL           | 56177             | 5561           | 18215       | 23788 | 6236   | 42.3   | 11.1 |

| Major Groupings | Market Share     |
|-----------------|------------------|
| 52              | • 34             |
| 53              | •00              |
| 54              | •07              |
| 55              | •04              |
| 56              | • 51             |
|                 | •65              |
| 20<br>50        | • / 1            |
| ノラ              | 9 <del>3</del> 1 |

Market Share of Retail Consumption by SIC Categories

| Overcrowded   | and Satura | ated Retail | Categories |
|---|------------|-------------|------------|
| and the second se |            |             |            |

| Store  | Present Market Share  |
|--|-----------------------|
| Fruit stores and vegetable markets<br>Men's clothing and furnishings | 1,00                  |
| stores   | 1.00                  |
| Family clothing stores   | 1.00                  |
| Gift, novelty and souvenir shops                                     | •90                   |
| Millinery shops  | 1.00                  |
| Furniture stores   | •95                   |
| Paint, glass and wallpaper stores                                    | 1.00                  |
| Source: Dun and Bradstreet, <u>Market</u><br>and Table III.10        | Indicators, Dec. 1973 |

Note: a market share of 1.00 means that the total sales estimated by Dun and Bradstreet exceeded the estimates of the total retail expenditures for the primary and secondary trade area. This means that the tertiary trade area is very important to these stores. Sometimes a store sold 3 to 4 times the sales limit of the Dudley Square trade area.

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## PART II: Retail Market Projections

# RETAIL CATEGORY EXPENDITURES BY INCOME

Primary Trade Area: 1980 - Core Decline

| Retail Categories   |  |  |   |   |  |
|---|--|--|---|---|--|
|   | Under<br>\$ <u>3,000</u>                             | \$3,000-<br>\$ <u>5,999</u>                            | \$6,000-<br>\$8,999                                   | \$9,000-<br>\$11,999                                  | \$12,000-<br>\$14,999                                |
| Convenience Goods<br>Drug Stores  |  |  |   |   |  |
| Pharmaceutical drug stores<br>Drug stores with traditional lines<br>Self-service, multi-line drug stores<br>(excluding liquor)  | 20,424<br>37,398<br>60,996                           | 67,687<br>134,806<br>201,924                           | 50,569<br>92,981<br>149,531                           | 44,982<br>25,169<br>128,520                           | 23,065<br>42,343<br>68,506                           |
| Supermarkets and Food Stores<br>Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods<br>Discount supermarkets with expanded<br>nonfoods          | 296,010<br>355,212<br>367,080                        | 885,622<br>1,062,518<br>1,098,353                      | 688,931<br>827,044<br>854,775                         | 574,056<br>689,189<br>713,286                         | 303,973<br>364,561<br>376,561                        |
| Specialty Food Stores<br>Delicatessens<br>Meat Markets<br>Fish and seafood markets<br>Fruit stores, vegetable markets<br>Candy, nut, confectionery stores<br>Bakeries | 18,630<br>16,284<br>1,380<br>3,450<br>2,622<br>5,382 | 55,742<br>48,917<br>3,982<br>10,238<br>7,963<br>15,926 | 43,500<br>38,063<br>3,263<br>8,700<br>5,981<br>12,506 | 38,021<br>31,595<br>3,212<br>6,962<br>5,355<br>10,710 | 19,278<br>17,213<br>1,721<br>3,443<br>2,410<br>5,508 |
| Liquor Stores   | 14,076   | 66,550   | 60,356  | 57,299  | 35,114   |
| Hardware Stores<br>Hardware stores with limited lines<br>(traditional)  | 7,452  | 34,697   | 32,081  | 28,382  | 16,524   |
| Multi-line hardware stores<br>(but not including extensive<br>Plumbing, heating, and lumber<br>supplies)  | 9,798  | 44,935   | 41,869  | 37,485  | 21,688   |
| <u>Convenience Services</u><br>Barber shops<br>Beauty shops<br>Dry cleaners<br>Laundromats (washing, drying only-<br>no dry cleaning                                  | 6,624<br>10,626<br>6,900<br>4,554                    | 25,596<br>34,128<br>22,752<br>15,358                   | 21,750<br>27,188<br>16,313<br>10,875                  | 18,207<br>28,382<br>15,530<br>10,710                  | 9,639<br>18,590<br>9,639<br>6,541                    |
| Shoe repair   | 1,518  | 4,550  | 3,263   | 3,213   | 2,066  |

|                              |                                  |                                  |            |         |             |             |             | _                | <u> </u>         | -                     | _                          | ~           | -                |
|------------------------------|----------------------------------|----------------------------------|------------|---------|-------------|-------------|-------------|------------------|------------------|-----------------------|----------------------------|-------------|------------------|
|                              | \$1<br>an                        | 5,<br>d                          | 00<br>o v  | 0<br>er |             |             |             |                  |                  |                       |                            |             |                  |
| 16<br>30<br>50               | ,9<br>,9<br>,3                   | 05<br>93<br>13                   | ر د<br>ر د |         |             |             | 2<br>3<br>6 | 2<br>6<br>5      | 3<br>3<br>9      | ,<br>,<br>,           | 6<br>6<br>7                | 3<br>9<br>9 | 2<br>0<br>0      |
| 224<br>269<br>278            | ,5<br>,6<br>,9                   | 95<br>75<br>33                   |            |         | 2<br>3<br>3 | ,<br>,<br>, | 9<br>5<br>6 | 7<br>6<br>8      | 3<br>8<br>9      | ,<br>,                | 1<br>1<br>3                | 8<br>9<br>8 | 7<br>9<br>1      |
| 14<br>12<br>1<br>2<br>2<br>4 | ,0<br>,4<br>,2<br>,8<br>,0<br>,0 | 88<br>78<br>08<br>16<br>13<br>25 |            |         |             |             | 1           | 86<br>132<br>5   | 944564           | ,<br>,<br>,<br>,<br>, | 2<br>5<br>7<br>6<br>3<br>0 | 556145      | 907<br>147       |
| 31                           | ,3                               | 95                               |            |         |             |             | 2           | 6                | 4                | ,                     | 7                          | 9           | 0                |
| 14<br>19 ر                   | ,8<br>,7                         | 93<br>23                         |            |         |             |             | 1           | 37               | 4<br>5           | ,<br>,                | 0<br>4                     | 2<br>9      | 9<br>8           |
| 7<br>16<br>10<br>6           | ,2<br>,9<br>,0                   | 45<br>05<br>63<br>43             |            |         |             |             | 1           | 8<br>3<br>8<br>5 | 9<br>5<br>1<br>4 | ,<br>,<br>,           | 0<br>8<br>1<br>8           | 6<br>1<br>9 | 1<br>9<br>7<br>1 |

16,623

2,013

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Total

# Primary Trade Area - 1980 Core Decline (continued)

### Retail Categories

|   | Under<br>\$3,000 | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999 | \$9,000-<br><u>\$11,999</u> | \$12,000-<br><u>\$14,999</u> |
|---|------------------|---------------------|---------------------|-----------------------------|------------------------------|
| Primary Shonners Goods                          |                  |                     |                     | -                           |                              |
| General Merchandise Stores                      |                  |                     |                     |                             |                              |
| Full-line traditional department stores         | 91,271           | 406,269             | 379,643             | 373,970                     | 227,664                      |
| limited-line traditional department             | 66,292           | 295,016             | 275,479             | 271,363                     | 165,726                      |
| stores emphasizing soft goods                   | •                | •                   | -                   |                             |                              |
| Full-line discount department stores            | 87,840           | 391,325             | 362,194             | 357,824                     | 217,285                      |
| Limited-line discount department stores         | 67,939           | 302,765             | 282,881             | 279,149                     | 169,409                      |
| Full-line traditional variety stores            | 14,274           | 63,653              | 60,806              | 58,330                      | 35,154                       |
| with limited apparel                            |                  |                     |                     |                             |                              |
| Super variety stores with expanded              | 17,705           | 79,151              | 74,025              | 72,912                      | 44,194                       |
| apparel   |                  |                     |                     |                             |                              |
| Variety stores, limited price and limited lines | 10,568           | 47,048              | 43,886              | 43,226                      | 26,449                       |
| N Majon Apparol Stores                          |                  |                     |                     |                             |                              |
| Maple clothing and furnishings stores           | 6.176            | 34,871              | 33.311              | 32,810                      | 20,088                       |
| Women's clothing and furnishings stores         | 20,313           | 70,848              | 60,278              | 63,538                      | 40,846                       |
| Children's and infants' clothing stores         | 1,647            | 6,089               | 4,759               | 5,208                       | 3,683                        |
| Family clothing stores                          | 6,588            | 34,317              | 34,369              | 31,764                      | 17,410                       |
| Women's shoe stores                             | 7,823            | 29.336              | 27,495              | 27,082                      | 16,740                       |
| Men's and boys' shoe stores                     | 4,118            | 22,694              | 22,208              | 21,353                      | 13,057                       |
| Family shoe stores                              | 4,804            | 21,587              | 20,093              | 19,790                      | 12,053                       |
| Other Specialty Stores                          |                  |                     |                     |                             |                              |
| Book and stationery stores                      | 2,333            | 8,856               | 8,989               | 8,333                       | 5,022                        |
| Camera and photographic supply stores           | 1,235            | 4,423               | 4,230               | 4,116                       | 2,678                        |
| Cigar stores and stands                         | 824              | 3,875               | 3,173               | 3,125                       | 2,009                        |
| Gift, novelty and souvenir shops                | 1,373            | 4,982               | 4,759               | 4,687                       | 3,013                        |
| Hosiery and lingerie shops                      | 1,373            | 7,196               | 6,874               | 6,770                       | 3,683                        |
| Jewelry stores                                  | 5,216            | 19,926              | 18,506              | 18,228                      | 11,048                       |
| Luggage and leather goods stores                | 275              | 1,107               | 1,058               | 1,042                       | 670                          |

| \$15,000<br>and over  |  |
|---|--|
|   |  |
| 214,032<br>155,232  | 1,692,849<br>1,229,108   |
| 206,192<br>159,152<br>33,320                                      | 1,622,660<br>1,261,295<br>265,537                                      |
| 41,552  | 329,539  |
| 24,696  | 195,873  |
| 21,168<br>41,552<br>3,528<br>13,328<br>14,112<br>13,720<br>11,368 | 148,424<br>297,375<br>24,914<br>139,781<br>122,588<br>97,150<br>89,695 |
| 5,096<br>2,744<br>1,568<br>2,744<br>2,744<br>9,408<br>784         | 38,629<br>19,426<br>14,574<br>21,558<br>28,640<br>82,332<br>4,936      |

Total

## PRIMARY TRADE AREA 1980 - CORE DECLINE (continued)

Retail Categories

|   | Under<br>\$3,000 | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999 | \$9,000-<br><u>\$11,999</u> | \$12,000-<br><u>\$14,999</u> |
|---|------------------|---------------------|---------------------|-----------------------------|------------------------------|
| Other Specialty Stores (continued)                    |                  |                     |                     |                             |                              |
| Millinery shops                                       | 275              | 1,661               | 1,586               | 1,562                       | 1,004                        |
| Music stores  | 2,333            | 8,856               | 8,989               | 8,333                       | 5,022                        |
| Sporting goods stores                                 | 2,196            | 8,303               | 8,460               | 7,812                       | 4,687                        |
| Florist shops   | 2,471            | 9,410               | 9,518               | 8,854                       | 5,692                        |
| . Optical goods stores                                | 1,784            | 6,642               | 6,874               | 6,250                       | 4,018                        |
| Toy and hobby stores                                  | 824              | 3,321               | 3,173               | 3,125                       | 2,009                        |
| Secondary Shoppers Goods                              |                  |                     |                     |                             |                              |
| Furniture and household furnishings                   | 13,862           | 78,597              | 69,266              | 65,100                      | 36,158                       |
| Household applicances, television<br>and radio stores | 14,000           | 66,974              | 60,278              | 45,310                      | 21,762                       |
| Floor coverings stores                                | 3,157            | 11,624              | 11,633              | 10,937                      | 7,031                        |
| m Passenger car dealers                               | 142,328          | 570,105             | 507,600             | 447,367                     | 241,391                      |
| Tire. battery and accessory stores                    | 7,686            | 30,996              | 26,966              | 23,957                      | 13,057                       |
| <sup>H</sup> Paint, glass and wallpaper stores        | 2,608            | 11,624              | 11,104              | 9,895                       | 5,692                        |
| 4   |                  | -                   |                     | -                           |                              |
| Other Goods and Services                              |                  |                     |                     |                             |                              |
| Gasoline service stations, with limited               | 66,292           | 265,680             | 232,650             | 194,258                     | 101,110                      |
| Eating and drinking places                            | 54,900           | 177,120             | 152,809             | 156,761                     | 97,472                       |

 

 \$15,000and over

 \$15,000-38,616

 \$29,000

 \$28,616

 \$291,599

 \$20,384

 \$228,708

 \$6,664

 \$168,168

 \$2,076,959

 \$9,016

 \$111,678

 \$5,096

 \$60,368

 \$920,358

 \$94,472

Total

# RETAIL CATEGORY EXPENDITURES BY INCOME Primary Trade Area 1980 Trends Extended

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mary frage Area 1900 frends Excended

| <b>D</b> - 1 | • •   | 7 4 |     | A     |           | •   |     |
|--------------|-------|-----|-----|-------|-----------|-----|-----|
| кет          | га т  | 1 1 | . a | T.P.( | <b>10</b> | r 1 | es  |
|              | ~ ~ . |     | ~~  | ~~ ~  | <b>40</b> |     | ~ ~ |

|          |   | Under<br>\$3,000                                     | \$3,000-<br>\$5,999                                    | \$6,000-<br>\$8,999                                   | \$9,000-<br>\$11,999                                  | \$12,000-<br>\$14,999                                |
|----------|---|--|--|---|---|--|
| <u>C</u> | <u>onvenience Good</u> s  |  |  |   |   |  |
|          | Drug Stores<br>Pharmaceutical drug stores<br>Drug stores with traditional lines<br>Self-service, multi-line drug stores<br>(excluding liquor)                         | 20,912<br>38,292<br>62,455                           | 67,687<br>134,806<br>201,924                           | 50,569<br>92,981<br>149,531                           | 44,982<br>78,719<br>128,520                           | 23,065<br>42,343<br>68,506                           |
|          | Supermarkets and Food Stores<br>Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods<br>Discount supermarkets with expanded<br>nonfoods          | 303,089<br>363,706<br>375,858                        | 885,622<br>1,062,518<br>1,097,784                      | 688,931<br>827,044<br>854,775                         | 574,056<br>689,189<br>713,286                         | 303,973<br>364,561<br>376,954                        |
| A I-ls   | Specialty Food Stores<br>Delicatessens<br>Meat markets<br>Fish and seafood markets<br>Fruit stores, vegetable markets<br>Candy, nut, confectionery stores<br>Bakeries | 19,076<br>16,673<br>1,413<br>3,533<br>2,685<br>5,511 | 58,742<br>48,917<br>3,982<br>10,238<br>7,963<br>15,926 | 43,500<br>38,063<br>3,563<br>8,700<br>5,981<br>12,506 | 38,024<br>31,597<br>3,123<br>6,962<br>5,355<br>10,710 | 19,278<br>17,213<br>1,721<br>3,443<br>2,410<br>5,508 |
|          | Liquor Stores   | 14,413   | 66,550   | 60,356  | 57,299  | 35,114   |
|          | Hardware Stores<br>Hardware stores with limited lines<br>(traditional)<br>Multi-line hardware stores  | 7,630<br>10,032                                      | 34,697<br>44,935                                       | 32,081<br>41,869                                      | 28,382<br>37,485                                      | 16,524<br>21,688                                     |
|          | (but not including extensive<br>plumbing, heating, and lumber<br>supplies)  |  |  |   |   |  |
|          | <u>Convenience Services</u><br>Barber shops<br>Beauty shops<br>Dry cleaners<br>Laundromats (washing, drying only-<br>no dry cleaning)                                 | 6,782<br>10,880<br>7,065<br>4,663                    | 25,596<br>34,128<br>22,752<br>15,358                   | 21,750<br>27,188<br>16,313<br>10,875                  | 18,207<br>28,382<br>15,530<br>10,710                  | 9,639<br>18,590<br>9,639<br>6,541                    |
|          | Shoe repair shops   | 1,554  | 4,550  | 3,563   | 3,213   | 2,066  |

|  | 10001  |
|--|--|
| \$15,000<br>and over                                 |  |
|  |  |
| 16,905<br>30,993<br>50,313                           | 224,120<br>418,134<br>661,249                              |
| 224,595<br>269,675<br>278,933                        | 2,980,266<br>3,576,693<br>3,697,590                        |
| 14,088<br>12,478<br>1,208<br>2,818<br>2,013<br>4,025 | 192,708<br>164,941<br>15,100<br>35,694<br>26,407<br>54,186 |
| 31,395   | 265,127  |
| 14,893   | 134,207  |
| 19,723   | 175,732  |

| 7,245  | 89,219  |
|--------|---------|
| 16,905 | 136,073 |
| 10,063 | 81,362  |
| 6,843  | 54,990  |
| 2,012  | 16,958  |

Total

# PRIMARY TRADE AREA : 1980 - JRENDS EXTENDED

(continued)

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|   |  | (oonornaea)   |   |   |   |   |  |
|---|--|---|---|---|---|---|--|
| Retail Categories   |  | · · · · · · · · · · · · · · · · · · ·                             |   | · · · · · · · · · · · · · · · · · · ·                             |   |   | otal   |
|   | Under<br><b>\$3,000</b>                                      | \$3,000-<br>\$5,999   | \$6,000-<br><u>\$8,999</u>  | \$9,000-<br><u>\$11,999</u>                                       | \$12,000-<br>\$14,999   | \$15,00<br>and ov   | 0<br>er  |
| Primary Shoppers Goods  |  |   |   |   | 9   |   |  |
| General Merchandise Stores<br>Full-line traditional department  | 91,770   | 417,499   | 390,413   | 384,489   | 234,090   | 219,765   | 1,738,026  |
| Stores<br>Limited-line traditional department<br>stores emphasizing soft goods  | 66,654   | 303,170   | 283,924   | 278,996   | 170,404   | 159,390   | 1,261,908  |
| Full-line discount department stores<br>Limited-line discount department stores<br>Full-line traditional variety stores<br>with limited apparel   | 88,320<br>68,310<br>14,352                                   | 402,142<br>311,134<br>65,412                                      | 372,469<br>290,906<br>62,531                                      | 367,889<br>287,028<br>59,976                                      | 223,418<br>174,191<br>36,146                                      | 211,715<br>163,415<br>34,213                                      | 1,665,953<br>1,294,984<br>272,630                                      |
| Super variety stores with expanded  | 17,802   | 81,338  | 76,125  | 74,970  | 45,441  | 42,665  | 338,341  |
| variety stores, limited price<br>and limited lines  | 10,626   | 48,348  | 45,131  | 44,447  | 27,196  | 25,358  | 201,106  |
| ,<br>H Major Apparel Stores   |  |   |   |   |   |   |  |
| Men's clothing and furnishings stores<br>Women's clothing and furnishings stores<br>Children's and infants' clothing stores<br>Family clothing stores<br>Women's shoe stores<br>Men's and boys' shoe stores<br>Family shoe stores               | 6,210<br>20,424<br>1,656<br>6,624<br>7,866<br>4,140<br>4,830 | 35,834<br>72,806<br>6,257<br>35,266<br>30,146<br>23,321<br>22,183 | 34,256<br>61,988<br>4,894<br>35,344<br>28,275<br>22,838<br>20,663 | 33,737<br>65,331<br>5,355<br>32,666<br>27,846<br>21,956<br>20,349 | 20,655<br>41,999<br>3,787<br>17,901<br>17,213<br>13,426<br>12,393 | 21,735<br>42,665<br>3,623<br>13,685<br>14,490<br>14,088<br>11,673 | 152,427<br>305,213<br>25,572<br>141,486<br>125,836<br>99,769<br>92,091 |
| Other Specialty Stores<br>Book and stationery stores<br>Camera and photographic supply stores<br>Cigar stores and stands<br>Gift, novelty and souvenir shops<br>Hosiery and lingerie shops<br>Jewelry shops<br>Luggage and leather goods stores | 2,346<br>1,242<br>828<br>1,380<br>1,380<br>5,244<br>276      | 9,101<br>4,550<br>3,982<br>5,119<br>7,394<br>20,477<br>1,138      | 9,244<br>4,350<br>3,263<br>4,894<br>7,069<br>19,031<br>1,087      | 8,568<br>4,284<br>3,213<br>4,820<br>6,962<br>18,743<br>1,071      | 5,164<br>2,754<br>2,066<br>3,098<br>3,787<br>11,360<br>689        | 5,233<br>2,818<br>1,610<br>2,818<br>2,818<br>9,660<br>805         | 39,656<br>19,998<br>14,962<br>22,129<br>29,410<br>84,515<br>5,066      |

|   | Primary Trade Area 1980 TRENDS EXTENDED<br>(continued) |  |  |  |  |  |
|---|--|--|--|--|--|--|
| <u>Retail Categories</u>  | Under<br>\$3,000                                       | \$3,000-<br><u>\$5,999</u>                         | \$6,000-<br>\$8,999                                | \$9,000-<br>\$11,999                               | \$12,000-<br>\$14,999                              |  |
| Other Specialty Stores (continued)<br>Millinery shops<br>Music stores<br>Sporting goods stores<br>Florist shops<br>Optical goods stores<br>Toy and hobby stores | 276<br>2,346<br>2,220<br>2,484<br>1,794<br>828         | 1,706<br>9,101<br>8,532<br>9,670<br>6,826<br>3,413 | 1,631<br>9,244<br>8,700<br>9,788<br>7,069<br>3,263 | 1,607<br>8,568<br>8,033<br>9,104<br>6,426<br>3,213 | 1,033<br>5,164<br>4,820<br>5,852<br>4,131<br>2,062 |  |
| Secondary Shoppers Goods<br>Furniture and household furnishings   | 13,938   | 80,770   | 71,231   | 66,938   | 37,179   |  |
| Household applicanes, television and  | 14,076   | 68,825   | 61,988   | 46,589   | 22,376   |  |
| Floor coverings stores<br>Passenger car dealers<br>Tire, battery and accessory stores<br>Paint, glass and wallpaper stores                                      | 3,174<br>143,106<br>7,728<br>2,622                     | 11,945<br>585,864<br>31,853<br>11,945              | 11,963<br>522,000<br>27,731<br>11,419              | 11,246<br>459,995<br>24,633<br>10,175              | 7,229<br>248,204<br>13,426<br>5,852                |  |
| Other Goods and Services<br>Gasoline service stations, with<br>limited accessories  | 54,372   | 273,024  | 239,250  | 199,742  | 103,964  |  |
| Eating and drinking places  | 41,538   | 182,016  | 157,144  | 161,186  | 100,177  |  |

|  | IULAI   |
|--|---|
| \$15,0<br>and ov                                 | 00-<br>er   |
| 805<br>5,233<br>4,830<br>5,635<br>4,025<br>2,012 | 7,058<br>39,656<br>37,135<br>42,533<br>30,371<br>14,791 |
| 29,383   | 299,439   |
| 20,930   | 234,784   |
| 6,843<br>172,673<br>9,258<br>5,233               | 52,400<br>2,131,842<br>114,629<br>47,246                |
| 61,985   | 932,337   |
| 97,003   | 739,064   |

Total

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### RETAIL CATEGORY EXPENDITURES BY INCOMES

|     |                           |                  | PRIMARY 7         | TRADE AREA 1980   | - CORE INTENS      | IVE                 |          |
|-----|---------------------------|------------------|-------------------|-------------------|--------------------|---------------------|----------|
|     | RETAIL CATEGORIES         | UNDER<br>\$3,000 | \$3,000-<br>5,999 | \$6,000-<br>8,999 | \$9,000-<br>11,999 | \$12,000-<br>14,999 | \$15<br> |
|     | Convenience Goods         |                  |                   |                   |                    |                     |          |
|     | Drug Stores               | - )              |                   |                   |                    |                     |          |
|     | Pharmaceutical drugs      | 20,912           | 69,401            | 51,824            | 46,481             | 23,698              | 1 /      |
|     | Drug stores with          |                  |                   |                   |                    |                     | 21       |
|     | traditional lines         | 38,292           | 138,218           | 95,290            | 81,342             | 43,505              | 21       |
|     | Self-service, multi       |                  |                   |                   |                    |                     |          |
|     | line drug stores          | () / 55          | 207 026           | 152 244           | 132 804            | 70 386              | 51       |
|     | (excluding liquor)        | 62,455           | 207,030           | 155,244           | 152,004            | 70,500              | 5 + 1    |
|     | Supermarkets &            |                  |                   |                   |                    |                     |          |
|     | Foodstores                |                  |                   |                   |                    |                     |          |
|     | Supermarkets with         |                  |                   |                   |                    |                     |          |
|     | limited nonfoods          | 303.089          | 908,042           | 706,036           | 593,191            | 312,317             | 230      |
|     | Discount super-           | <b>,</b>         |                   |                   |                    |                     |          |
| -   | markets with expanded     |                  |                   |                   |                    |                     |          |
| Ľ.  | nonfoods                  | 375,858          | 1,126,159         | 875,997           | 737,062            | 387,302             | 286      |
| -   |                           |                  |                   |                   |                    |                     |          |
| RL; | Speciality Food Stores    |                  |                   |                   | 00.000             | 10 907              | 1 /      |
|     | Delicatessens             | 19,076           | 57,154            | 44,580            | 39,288             | 19,007              | 14       |
|     | Meat markets              | 16,673           | 50,155            | 39,008            | 32,040             | 1 760               | 12       |
|     | Fish & seafood            | 1,413            | 4,082             | 3,344             | 3,320              | 3 538               | 2        |
|     | Fruit & vegatables        | 3,533            | 10,498            | 0,910<br>6 130    | 7,194              | 2 476               | 2        |
|     | Candy, Nut, Confectionery | 2,685            | 8,105<br>16 330   | 12 817            | 11 067             | 5,659               | 4        |
|     | Bakeries                  | 5,511            | 10,550            | 12,017            | 11,007             | 5,055               | ·        |
|     | Liquor Stores             |                  |                   |                   |                    |                     |          |
|     | Hardmara Storas           | 14 413           | 68 234            | 61 855            | 59 208             | 36.077              | 32       |
|     | with limited lines        | 7,630            | 35,575            | 32,878            | 29,328             | 16,978              | 15       |
|     | Multi-lines (but not      | ,,               |                   |                   | ·                  |                     |          |
|     | including extensive plu   | mbing            |                   |                   |                    |                     |          |
|     | heating and lumber supp   | . 10,032         | 46,073            | 42,908            | 38,735             | 24,052              | 20       |
|     | CONVENIENCE SERVICES      | · · · ·          | -                 |                   |                    |                     |          |
|     | Barber shops              | 6,782            | 26,244            | 22,290            | 18,814 ·           | 9,904               | 7        |
|     | Beauty shops              | 10,880           | 34,992            | 27,863            | 29,328             | 19,100              | 17       |
|     | Dry cleansers             | 7,065            | 23,328            | 16,718            | 16,047             | 9,904               | 10       |
|     | Laundromats               | 4,663            | 15,746            | 11,145            | 11,067             | 6,720               | 7        |
|     | Shoe repair shops         | 1,554            | 4,666             | 3,344             | 3,320              | 2,122               | 2        |

| TOTAL   |
|---|
|   |
| 229,662   |
| 428,448   |
| 677,550   |
| 3,053,129   |
| 3,788,587   |
| <b>194,360</b><br>168,972<br>15,1 <b>6</b> 7<br>36,570<br>27,055<br>55,514<br>272,001 |
| 137,670<br>182,037  |
| 91,468  |
| 91,468<br>139,509<br>83,387<br>56,362<br>17,071                                       |
|   |

|    |  | <b>380 CORE INTENSIVE</b> |         |          |         |          |         |           |
|----|--|---------------------------|---------|----------|---------|----------|---------|-----------|
|    |  | UNDER                     | \$3,000 | \$6,000  | \$9,000 | \$12,000 | 15,000  | TOTAL     |
|    | RETAIL CATEGORIES  | \$3,000                   | 5,999   | 8,999    | 11,000  | 14,999   | OVER    |           |
|    | Primary Shoppers Goods   |                           |         |          |         |          |         |           |
|    | General merchandise stores                                       |                           |         |          |         |          |         |           |
|    | Full-line traditional dept. stores                               | 93,935                    | 428,069 | 400,106  | 397,305 | 240,516  | 225,498 | 1,785,429 |
|    | Limited-line traditional dept. store<br>(emphasizing soft goods) | 68,248                    | 310,846 | 290,327  | 288,295 | 175,082  | 163,548 | 1,296,346 |
|    | Full-line discount dept. stores                                  | 90,432                    | 412,322 | 381,71 7 | 380,151 | 229,551  | 217,238 | 1,711,410 |
|    | Limited-line discount dept. store:                               | 69,944                    | 319,010 | 298,129  | 296,596 | 178,972  | 167,678 | 1,330,329 |
|    | Full-line traditional variety stores                             |                           |         |          |         |          |         |           |
|    | with limited apparel   | 14,695                    | 67,068  | 64,084   | 61,975  | 37,139   | 35,105  | 280,066   |
|    | Super variety stores with expanded                               | •                         | •       | · · ·    |         |          |         |           |
|    | apparel  | 18,228                    | 83,398  | 78,015   | 77,469  | 46,688   | 43,778  | 347.576   |
|    | Variety stores, limited price and                                |                           | •       | ·        |         |          |         |           |
|    | limited lines  | 10,880                    | 49,572  | 46,252   | 45,928  | 27,942   | 26,019  | 206,593   |
|    | Major Apparel Stores   |                           |         |          |         |          |         |           |
|    | Men's clothing & furnishings stores                              | 6,359                     | 36,742  | 35,107   | 34,861  | 21,222   | 22,302  | 156,302   |
|    | Women's clothing & furnishing stores                             | 20,912                    | 74,650  | 63,527   | 67,509  | 43,151   | 43,778  | 313,527   |
|    | Children's & infants clothing stores                             | 1,696                     | 6,415   | 5,015    | 5,534   | 3,891    | 3,717   | 26,268    |
| ထု | Family clothing stores   | 6,782                     | 36,158  | 36,221   | 33,754  | 18,392   | 14,402  | 145,349   |
|    | Women's shoe stores  | 8,054                     | 30,910  | 28,977   | 28,774  | 17,685   | 14,868  | 129,268   |
| н  | Men's & boy's shoe stores  | 4,239                     | 23,911  | 23,405   | 22,687  | 13,794   | 14,455  | 102,491   |
| A  | Family shoe stores   | 4,946                     | 22,745  | 21,176   | 21,027  | 12,733   | 11,977  | 94,604    |
|    | Other Specialty Stores   |                           |         |          |         |          |         |           |
|    | Book & stationery stores   | 2,402                     | 9,331   | 9,473    | 8,854   | 5,306    | 5,369   | 40,735    |
|    | Camera & photography supply stores                               | 1,272                     | 4,665   | 4,458    | 4,427   | 2,830    | 2,891   | 20,543    |
|    | Cigar stores & stands  | 848                       | 4,082   | 3,344    | 3,320   | 2,122    | 1,652   | 15,368    |
|    | Gift, novelty & souvenir shops                                   | 1,413                     | 5,299   | 5,015    | 4,980   | 3,183    | 2,891   | 22,750    |
|    | Hosiery & lingerie shops   | 1,413                     | 7,582   | 7,244    | .7,194  | 3,891    | 2,891   | 30,215    |
|    | Jewelry stores   | 5,369                     | 20,995  | 19,504   | 19,367  | 11,673   | 9,912   | 86,820    |
|    | Luggage & leather goods stores                                   | 283                       | 1,166   | 1,114    | 1,107   | 707      | 826     | 5,203     |

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## PRIMARY TRADE AREA - 1980 CORE INTENSIVE

|                                  | Under   | 3,000   | 6,000   | 9,000         | 12,000  |
|----------------------------------|---------|---------|---------|---------------|---------|
| RETAIL CATEGORIES                | 3,000   | 5,999   | 8,999   | <u>11,999</u> | 14,999  |
| Other Specialty Stores (cont)    |         | :       |         |               |         |
| Milinery shops                   | 283     | 1,750   | 1,672   | 1,660         | 1,061   |
| Music stores                     | 2,402   | 9,351   | 9,473   | 8,854         | 5,306   |
| Sporting goods stores            | 2,261   | 8,748   | 8,916   | 8,300         | 4,952   |
| Florist shops                    | 2,543   | 9,914   | 10,031  | 9,407         | 6,013   |
| Optical goods stores             | 1,837   | 6,998   | 7,244   | 6,640         | 4,244   |
| Toy & hobby shops                | 848     | 3,499   | 3,344   | 3,320         | 2,122   |
| SECONDARY SHOPPERS GOODS         |         |         |         |               |         |
| Furniture & household furnishing |         |         |         |               |         |
| stores                           | 14,271  | 82,814  | 73,000  | 69,169        | 38,200  |
| Household appliances, television |         |         |         |               |         |
| & radio stores                   | 14,413  | 70,567  | 63,527  | 48,141        | 22,991  |
| Floor covering stores            | 3,250   | 12,247  | 12,260  | 11,620        | 7,428   |
| Passenger car dealers            | 146,528 | 600,696 | 534,960 | 475,328       | 255,018 |
| Tire, battery & accessory stores | 7,913   | 32,659  | 28,420  | 25.454        | 13.794  |
| Paint, glass & wallpaper stores  | 2,685   | 12,247  | 11,702  | 10,514        | 6,013   |
| C OTHER GOODS & SERVICES         |         |         |         |               |         |
| Gasoline service stations,       |         |         |         |               |         |
| with limited accessories         | 68,248  | 279,936 | 245,190 | 206,400       | 106,817 |
| Eating & drinking places         | 56,520  | 186,624 | 161,045 | 166.558       | 102,927 |
|                                  |         |         |         |               |         |

| 15,000<br><u>Over</u> | TOTAL     |
|-----------------------|-----------|
| 826                   | 7,252     |
| 5,369                 | 40,735    |
| 4,956                 | 38,133    |
| 5,782                 | 43,690    |
| 4,130                 | 31,093    |
| 2,065                 | 15,198    |
| 30,149                | 307,603   |
| 21,476                | 241,115   |
| 7,021                 | 53,826    |
| 177,177               | 2,189,707 |
| 9.499                 | 117,739   |
| 5,369                 | 48,530    |

| 63,602 | 970,193 |
|--------|---------|
| 99,533 | 773,207 |

#### RETAIL CATEGORY EXPENDITURES BY INCOME Primary Trade Area 1970

| Retail | Categ | ories |
|--------|-------|-------|
|--------|-------|-------|

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|  | Under<br>\$3,000   | 3000-<br>5999  | \$6000<br>\$8999   | \$9000<br>\$11,999  | \$12,000<br>\$14,999   | \$15,000<br>and over   |   |
|--|--|--|--|---|--|--|---|
| Convenience Goods<br>Drug Stores   |  |  | аан на тарина на тар |   |  |  |   |
| Pharmaceutical drug stores<br>Drug stores with traditional lines<br>Self-service, multi-line drug<br>stores (excluding liquor)                               | 20,313<br>37,195<br>60,665                                     | 67,366<br>134,166<br>200,966                                     | 50,290<br>92,468<br>148,706  | 44,717<br>78,255<br>127,764                                     | 22,974<br>42,177<br>68,237                                     | 16,832<br>30,858<br>50,094                                     | 222,492<br>415,119<br>656,432   |
| Supermarkets and Food Stores<br>Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods<br>Discount supermarkets with expanded<br>nonfoods | 294,401<br>353,281<br>365,085                                  | 881,418<br>1,087,475<br>1,093,139                                | 685,130<br>822,481<br>850,059  | 570,679<br>685,134<br>709,090                                   | ,302,781<br>363,131<br>375,476                                 | 223.619<br>268,503<br>277,720                                  | 2,958,028<br>3,580,005<br>3,670,569                                   |
| <pre>Control Stores Control Stores Control Stores Control Stores Control Stores Control Stores Condy, nut, confectionery stores Bakeries</pre>               | 18,529<br>16,196<br>1,372<br>3,431<br>2,608<br>5,353<br>14,000 | 55,478<br>48,685<br>3,963<br>10,190<br>7,925<br>15,851<br>66,334 | 43,260<br>37,853<br>3,245<br>8,852<br>5,948<br>12,437<br>60,023  | 37,797<br>31,409<br>3,194<br>6,921<br>5,324<br>10,647<br>56,961 | 19,202<br>17,145<br>1,715<br>3,429<br>3,400<br>5,486<br>34,976 | 14,026<br>12,423<br>1,202<br>2,805<br>2,004<br>4,008<br>31,259 | 188,292<br>163,711<br>14,691<br>35,628<br>27,209<br>53,782<br>263,553 |
| Liquor Stores  |  |  |  |   |  |  |   |
| Hardware Stores<br>Hardware stores with limited lines<br>(traditional)   | 7,412  | 34,532   | 31,904   | 28,215  | 16,459   | 14,828   | 133,350   |
| Multi-line hardware stores<br>(but not including extensive<br>plumbing, heating, and lumber<br>supplies)   | 9,745  | 44,722   | 41,638   | 37,265  | 21,603   | 19,637   | 174,610   |
| Convenience Services   | 6 500  | 05 475   | 01 600   | 10,100  | 0 (0)  | 7 014  | 00 678  |
| Beauty shops   | 6,588<br>10,568  | 25,4/5<br>33,966   | 21,630<br>27.038   | 18,100<br>28,215  | 9,601<br>18,517  | /,214<br>16,832  | 88,60 <b>0</b><br>135,136   |
| Dry cleaners   | 6,865  | 22,644   | 16,223   | 15,438  | 9,601  | 10,019   | 80,788  |
| Laundromats (washing, drying only-   | 4,529  | 15,285   | 10,815   | 10,647  | 6,515  | 6,813  | 54,604  |
| Shoe repair shops  | 1,510  | 4,529  | 3,245  | 3,194   | 2,057  | 2,004  | 16,539  |

Total

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# Primary Trade Area 1970

(continued)

| Retail Categories   | Income       |                 |                |                   |                 |  |
|---|--------------|-----------------|----------------|-------------------|-----------------|--|
|   | Under        | \$3000-         | \$6000-        | \$9000            | \$12,000        |  |
|   | \$3,000      | 5999            | \$ <u>8999</u> | \$11 <b>,</b> 999 | <u>\$14,999</u> |  |
|   |              |                 |                |                   |                 |  |
|   |              |                 |                |                   |                 |  |
| Primary Shoppers Goods  |              |                 |                |                   |                 |  |
| General Merchandise Stores  |              |                 |                |                   |                 |  |
| Full-line traditional department stores   | 91,271       | 415,517         | 388,259        | 382,227           | 233,172         |  |
| Limited-line traditional department<br>stores emphasizing soft goods<br>Full-line discount department | 66,292       | 301,731         | 281,731        | 277,354           | 169,736         |  |
| stores  | 87,840       | 400,233         | 370,414        | 365,724           | 222,542         |  |
| Limited-line discount department  | 67 020       | 200 657         | 200 201        | 295 340           | 173 507         |  |
| Stores<br>Full line traditional dariety   | 07,939       | 309,057         | 209,301        | 205,540           | 173,307         |  |
| d stores with limited apparel   | 14,274       | 65,102          | 62,186         | 59,623            | 36,005          |  |
| N Super variety stores with expanded  | 17.705       | 80,952          | 75,705         | 74,529            | 45,263          |  |
| H apparel   | ,            |                 | •              | •                 |                 |  |
| <ul> <li>Variety stores, limited price and<br/>limited lines</li> </ul>                               | 10,568       | 48,119          | 44,882         | 44,185            | 27,089          |  |
| Major Apparel Stores  |              |                 |                |                   |                 |  |
| Men's clothing and furnishings<br>stores  | 6,176        | 35,664          | 34,067         | 33,538            | 20,574          |  |
| Women's clothing and furnishings  | 20,313       | 72 <b>,</b> 461 | 61,646         | 64,947            | 41,834          |  |
| Children's and infants' clothing  | 1,647        | 6,227           | 4,867          | 5,324             | 3,772           |  |
| Family clothing stores  | 6,588        | 35,098          | 35,149         | 32,473            | 17,831          |  |
| Women's shoe stores   | 7,823        | 30,003          | 28,119         | 27,682            | 17,145          |  |
| Men's and boys' shoe stores   | 4,118        | 23,210          | 22,712         | 21,826            | 13,373          |  |
| Family shoe stores  | 4,804        | 22,078          | 20,549         | 20,229            | 12,344          |  |
| Other Specialty Stores  |              |                 |                |                   |                 |  |
| Book and stationery stores  | 2.333        | 9.058           | 9.193          | 8,518             | 5,144           |  |
| Camera and Photgraphic supply stores  | 1,235        | 4.529           | 4.326          | 4,259             | 2,743           |  |
| Cigar stores and stands   | 824          | 3,963           | 3.245          | 3.194             | 2,057           |  |
| Cift novelty and souvenir shops   | 1,373        | 5,095           | 4,867          | 4,791             | 3,086           |  |
| Hogiery and lingerie shong  | 1,373        | 7,359           | 7,030          | 6,921             | 3,772           |  |
| Townly atorna   | 5 216        | 20 280          | 18 926         | 18,632            | 11,316          |  |
| Dewerry Stores  | 5,210<br>975 | 1 1 2 2         | 1 082          | 1,065             | 686             |  |
| Luggage and reather goods stores  | 275          | <b>IIIJC</b>    | <b>1</b> ,002  | 1,000             | 000             |  |

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| 218,810   | 1,729,256   |
|---|---|
| 158,697   | 1,255,541   |
| 210,795   | 1,657,548   |
| 162,705   | 1,288,449   |
| 34,064<br>42,480  | 271,254<br>336,634  |
| 25,247  | 200,090   |
|   |   |
| 21,641  | 151,660   |
| 42,480  | 303,681   |
| 3,607   | 25,444  |
| 13,626<br>14,427<br>14,026<br>11,622                      | 140,7635<br>125,119<br>99,265<br>91,626                           |
| 5,210<br>2,805<br>1,603<br>2,805<br>2,805<br>9,618<br>802 | 39,456<br>19,897<br>14,886<br>22,017<br>29,260<br>84,088<br>5,042 |

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Total

\$15,000 and over

# Primary Trade Area 1970

## (continued)

| R  | etail Categories                                    |         |  |         |                 |                 |
|----|---|---------|--|---------|-----------------|-----------------|
|    |   | Under   | \$3,000                                | \$6,000 | \$9,000         | \$12,000        |
|    |   | \$3,000 | -5,999                                 | \$8,999 | <u>\$11,999</u> | \$14,999        |
|    |   |         | ······································ | ·       |                 |                 |
|    | Other Specialty Stores (continued)                  |         |  |         |                 | 1 0 0 0         |
|    | Millinery shops                                     | 275     | 1,698                                  | 1,622   | 1,597           | 1,029           |
|    | Music stores  | 2,333   | 9,058                                  | 9,193   | 8,518           | 5,144           |
|    | Sporting foods stores                               | 2,196   | 8,492                                  | 8,652   | 7 <b>,</b> 985  | 4,801           |
|    | Florist shops                                       | 2,471   | 9,624                                  | 9,734   | 9,050           | 5,829           |
|    | Optical goods stores                                | 1,784   | 6,793                                  | 7,030   | 6,388           | 4,115           |
|    | Toy and hobby stores                                | 824     | 3,397                                  | 3,245   | 3,194           | 2,057           |
| S  | econdary Shoppers Goods                             |         | ,                                      |         |                 |                 |
|    | Furniture and household furnishings stores          | 13,862  | 80,386                                 | 70,838  | 66,544          | 37,033          |
|    | Household appliances, television and radio stores   | 14,000  | 68,498                                 | 61,646  | 46,314          | 22,289          |
| N  | Floor coverings stores                              | 3,157   | 11,888                                 | 11,897  | 11,179          | 7,201           |
| Î. | Passenger car dealers                               | 142,328 | 583,083                                | 519,120 | 457,289         | 247,231         |
| -1 | Tire, battery and accessory stores                  | 7,686   | 31,702                                 | 27,578  | 24,488          | 13,373          |
| A  | Paint, glass and wallpaper stores                   | 2,608,  | 11,888                                 | 11,356  | 10,115          | 5,829           |
| Of | ther Goods and Services                             |         |  |         |                 |                 |
|    | Gasoline service stations, with limited accessories | 54,077  | 271,728                                | 237,950 | 198,567         | 103,556         |
|    | Eating and drinking places                          | 41,312  | 181,152                                | 156,277 | 160,237         | 99 <b>,</b> 784 |

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|          | IUCUI     |
|----------|-----------|
| \$15,000 |           |
| and over |           |
|          |           |
| 000      | 7 000     |
| 5,210    | 39,456    |
| 4,809    | 36,935    |
| 5,611    | 42,319    |
| 4,008    | 30,118    |
| 2,004    | 14,/21    |
|          |           |
| 29,255   | 297,918   |
| ~~ ~~~   | 000 506   |
| 20,839   | 233,586   |
| 6,813    | 52,135    |
| 171,922  | 2,120,973 |
| 9,217    | 114,044   |
| 5,210    | 47,006    |
|          |           |
| 61,716   | 927,574   |
|          |           |
| 96,581   | 735, 343  |

Total

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|   | RETAIL CATEGORY EXPENDITURES BY INCOME<br>SECONDARY TRADE AREA - 1970 |                        |                        |                      |                       |
|---|---|------------------------|------------------------|----------------------|-----------------------|
|   | Under<br>\$3,000  | \$3,000-<br>\$5,999    | \$6,000-<br>\$8,999    | \$9,000-<br>\$11,999 | \$12,000-<br>\$14,999 |
| <u>Convenience Goods</u>  |   |                        |                        |                      |                       |
| Drug Stores<br>Pharmaceutical drug stores<br>Drug stores with traditional lines | 22,622<br>41,422  | 90,553<br>180,345      | 93,465<br>171,855      | 78,057<br>136,600    | 44,954<br>82,527      |
| Self-service, multi-line drug stores (excluding liquor)                         | 67,560  | 270,137                | 276,375                | 223,020              | 133,519               |
| Supermarkets and Food Stores  |   |                        |                        |                      |                       |
| Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods       | 327,863<br>393,456  | 1,184,799<br>1,421,455 | 1,273,335<br>1,528,605 | 996,156<br>1,195,945 | 592,449<br>710,536    |
| nonfoods  | 406,581   | 1,469,394              | 1,579,860              | 1,237,761            | 734,690               |
| Specialty Food Stores   |   |                        |                        |                      |                       |
| Delicatessens   | 20,635  | 74,573                 | 80,400                 | 65,977               | 37,573                |
| 🗙 Meat markets  | 18,036  | 65,442                 | 70,350                 | 54,826               | 33,548                |
| I Fish and seafood markets  | 1,529   | 5,327                  | 6,030                  | 5,576                | 3,355                 |
| Fruit stores, vegetable markets   | 3,821   | 13,697                 | 16,080                 | 12,080               | 6,710                 |
| Candy, nut, confectionery stores  | 2,904   | 10,653                 | 11,055                 | 9,293                | 4,69/                 |
| Bakeries  | 5,691   | 21,307                 | 23,115                 | 18,585               | 10,735                |
| Liquor Stores   | 15,591  | 89,031                 | 111,555                | 99,430               | 68,437                |
| Hardware Stores   |   |                        |                        |                      |                       |
| Hardware stores with limited lines (traditional)                                | 8,254   | 46,418                 | 59,295                 | 49,250               | 32,206                |
| Multi-line hardware stores<br>(but not including extensive                      |   |                        |                        |                      |                       |
| plumbing, heating, and lumber supplies)   | 10,852  | 60,115                 | 77,385                 | 65,048               | 42,270                |
| Convenience Services  |   |                        |                        |                      |                       |
| Barber shops  | 7,337   | 34,243                 | 40,200                 | 31,595               | 18,787                |
| Beauty shops  | 11,769  | 45,657                 | 50,250                 | 49.250               | 36,231                |
| Dry cleaners  | 7,643   | 30,438                 | 30,150                 | 26,948               | 18,787                |
| Laundromats (washing, drying only-<br>no dry cleaning)                          | 5,044   | 20,546                 | 20,100                 | 18,585               | 12,748                |
| Shoe repair   | 1,681   | 6,088                  | 6.030                  | 5.376                | 4.026                 |

| \$15,000<br>and over                                 |  |
|--|--|
|  |  |
| 34,766<br>63,737                                     | 364,417<br>676,486   |
| 103,469  | 1,074,080  |
| 461,885<br>554,593                                   | 4,836,487<br>53,804,590                                    |
| 573,631  | 6,001,917  |
| 28,971<br>25,660<br>2,483<br>5,794<br>4,139<br>8,277 | 308,129<br>267,862<br>24,300<br>58,191<br>42,741<br>87,980 |
| 64,565   | 448,609  |
| 30,627   | 226,050  |
|  | -  |
| 40,560   | 296,230  |
| 14,900<br>34,766<br>20,694                           | 147,062<br>227,923<br>134,660                              |
| 14,072   | 91,095   |
| 4.139  | 27.340   |
SECONDARY TRADE AREA - 1970

# Retail Categories

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| Retail Categories   | a second a second s |                            |                            |                             |  |  |
|---|--|----------------------------|----------------------------|-----------------------------|--|--|
|   | Under<br><b>\$3,000</b>  | \$3,000-<br><u>\$5,999</u> | \$6,000-<br><u>\$8,999</u> | \$9,000-<br><u>\$11,999</u> |  |  |
|   |  |                            |                            |                             |  |  |
| Primary Shoppers Goods  |  |                            |                            |                             |  |  |
| General Merchandise Stores  |  |                            |                            |                             |  |  |
| stores  | 101,645  | 558,537                    | 721,590                    | 667,202                     |  |  |
| Limited-line traditional department stores emphasizing soft goods               | 73,827   | 405,586                    | 523,605                    | 484,139                     |  |  |
| Full-line discount department stores  | 97,824   | 537,992                    | 688,425                    | 638,395                     |  |  |
| Limited-line discount department stores<br>Full-line traditional variety stores | 75,661   | 416,240                    | 537,675                    | 498,078                     |  |  |
| with limited apparel  | 15,896   | 87,509                     | 115,575                    | 104,076                     |  |  |
| apparel   | 19,717   | 108,816                    | 140,700                    | 130,095                     |  |  |
| Variety stores, limited price<br>and limited lines                              | 11,769   | 64,681                     | 83,415                     | 77,128                      |  |  |
| Major Apparel Stores  |  |                            |                            |                             |  |  |
| Men's clothing and furnishings stores   | 6.878  | 47,940                     | 63.315                     | 58,543                      |  |  |
| Women's clothing and furnishings stores   | 22,623   | 97.402                     | 114.570                    | 113,369                     |  |  |
| Children's and infants' clothing stores   | 1,834  | 8,370                      | 9,045                      | 9,293                       |  |  |
| Family clothing stores  | 7,337  | 47,179                     | 65,325                     | 56,684                      |  |  |
| Women's shoe stores   | 8,712  | 40,330                     | 52,260                     | 48,321                      |  |  |
| Men's and boys' shoe stores   | 4,586  | 31,199                     | 42,210                     | 38,099                      |  |  |
| Family shoe stores  | 5,350  | 29,677                     | 38,190                     | 35,312                      |  |  |
| Other Specialty Stores  |  |                            |                            |                             |  |  |
| Book and stationery stores  | 2,598  | 12,175                     | 17,085                     | 14,868                      |  |  |
| Camera and photographic supply stores   | 1,376  | 6,088                      | 8,040                      | 7,434                       |  |  |
| Cigar stores and stands   | 917  | 5,327                      | 6,030                      | 5,576                       |  |  |
| Gift, novelty and souvenir shops  | 1,529  | 6,849                      | 9,045                      | 8,363                       |  |  |
| Hosiery and lingerie shops  | 1,529  | 9,892                      | 13,065                     | 12,080                      |  |  |
| Jewelry shops   | 5,808  | 27,394                     | 35,175                     | 35,524                      |  |  |
| Luggage and leather goods stores  | 306  | 1,522                      | 2,010                      | 1,859                       |  |  |

|   | - Total  |
|---|--|
| \$12,000-<br>\$14,999   | \$15,000<br>and over   |
|   |  |
| 456,246   | 451,952 2,957, <b>177</b>  |
| 332,120   | 327,789 2,147,0 <b>66</b>  |
| 435,447<br>339,501  | 435,397 2,833,4 <b>8</b> 0<br>336,067 2,203,2 <b>22</b>  |
| 70,450  | 70,359 463,865   |
| 88,565  | 87,742 517,5 <b>6</b> 2  |
| 53,005  | 52,148 342,1 <b>46</b>   |
| 40,257<br>81,856<br>7,380<br>34,889<br>33,548<br>26,167<br>24,154 | 44,699       261,637         87,742       517,562         7,450       43,372         28,144       239,558         29,799       212,970         28,971       171,232         24,005       156,688 |
| 10,064<br>5,368<br>4,026<br>6,039<br>7,380<br>22,141<br>1,342     | 10,761 $67,551$ $5,794$ $34,100$ $3,311$ $25,187$ $5,794$ $37,619$ $5,794$ $49,740$ $19,866$ $142,908$ $1,656$ $8,695$   |

SECONDARY TRADE AREA - 1970

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|                                       | Under<br>\$3,000 | \$3,000-<br><u>\$5,999</u> | \$6,000-<br><u>\$8,999</u> | \$9,000-<br><u>\$11,999</u> | \$12,000-<br>\$14,999 |
|---------------------------------------|------------------|----------------------------|----------------------------|-----------------------------|-----------------------|
| Other Specialty Starge (continued)    |                  |                            |                            |                             |                       |
| Millinony chops                       | 306              | 2 283                      | 3.015                      | 2.788                       | 2.013                 |
| Music stops                           | 2 598            | 12 175                     | 17,085                     | 14,868                      | 10,064                |
| Pusic Stures<br>Sponting goods stones | 2,550            | 11 414                     | 16 080                     | 13,939                      | 9,393                 |
| Eleviet chops                         | 2,440            | 12 036                     | 18,000                     | 15,797                      | 11,406                |
| Pitrist Snops<br>Optical goods stores | 1 987            | 9 131                      | 13,065                     | 11,151                      | 8,051                 |
| Tox and hobby stores                  | 917              | 4,566                      | 6,030                      | 5,576                       | 4,026                 |
| loy and hobby scores                  | ) ± /            | 1,500                      | •,•••                      |                             |                       |
| Secondary Shoppers Goods              |                  |                            |                            |                             |                       |
| Furniture and household furnishings   |                  |                            |                            |                             |                       |
| stores                                | 15,438           | 108,055                    | 131,655                    | 116,156                     | 72,463                |
| Household applicanes, television and  |                  |                            |                            |                             |                       |
| radio stores                          | 15,591           | 92,075                     | 114,570                    | 80,845                      | 43,612                |
| Floor coverings stores                | 3,516            | 15,980                     | 22,110                     | 19,514                      | 14,090                |
| · Passenger car dealers               | 158,505          | 783,779                    | 964,800                    | 798,226                     | 483,755               |
| " Tire battery and accessory stores   | 8,560            | 42,613                     | 51,255                     | 42,746                      | 26,167                |
| H Paint glass and wallnamer stores    | 2,914            | 15,980                     | 21,105                     | 17,656                      | 11,406                |
|                                       |                  |                            |                            |                             |                       |
| Ather Goods and Services              |                  |                            |                            |                             |                       |
| Gasoline service stations with        |                  |                            |                            |                             |                       |
| limited accessories                   | 73,827           | 365,256                    | 442,200                    | 346,610                     | 202,627               |
| Fating and drinking places            | 61,140           | 243,504                    | 290,445                    | 279,704                     | 195,246               |

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| \$15,000-<br>and over | TOTAL     |
|-----------------------|-----------|
| 1,656                 | 12,061    |
| 10,761                | 67,551    |
| 9,933                 | 63,205    |
| 11,589                | 72,569    |
| 8,278                 | 51,663    |
| 4,139                 | 25,254    |
| 60,246                | 504,193   |
| 43,043                | 389,736   |
| 14,072                | 89,282    |
| 355,105               | 3,544,170 |
| 19,038                | 190,379   |
| 10,701                | 79,822    |
| 127,474               | 1,557,994 |
| 199,488               | 1,269,527 |

# RETAIL CATEGORY EXPENDITURES BY INCOME SECONDARY TRADE AREA - 1980 CORE DECLINE

| Retail Categories  |                  |                            |                       |                             |                      |  |  |
|--|------------------|----------------------------|-----------------------|-----------------------------|----------------------|--|--|
|  | Under<br>\$3,000 | \$3,000-<br><u>\$5,999</u> | \$6,000-<br>\$8,999   | \$9,000-<br><u>\$11,999</u> | \$12,000<br>\$14,999 |  |  |
| Convenience Goods  |                  |                            |                       |                             |                      |  |  |
| Drug Stores  | 001 000          | 75 550                     | 00 117                | 75 222                      | 43 416               |  |  |
| Pharmaceutical drug stores                                 | /41,889          | 150 / 92                   | 90,111                | 131 915                     | 79 704               |  |  |
| Drug stores with traditional lines                         | 40,001           | 225 407                    | 266 475               | 215 208                     | 128 952              |  |  |
| Self-service, multi-line drug stores<br>(excluding liquor) | 05,572           | 223,407                    | 200,475               | 213,200                     | 120,992              |  |  |
| Supermarkets and Food Stores                               |                  |                            |                       |                             | 570 10/              |  |  |
| Supermarkets with limited nonfoods                         | 317,246          | 988,617                    | 1,227,723             | 961,262                     | 572,184              |  |  |
| Supermarkets with expanded nonfoods                        | 380,095          | 1,180,087                  | 1,143,849             | 1,154,053                   | 686,232              |  |  |
| Discount supermarkets with expanded nonfoods               | 393,414          | 1,226,088                  | 1,523,268             | 1,194,404                   | 709,560              |  |  |
|  |                  |                            |                       |                             |                      |  |  |
| Specialty Food Stores                                      | 10 017           | 60.005                     |                       |                             | 26 200               |  |  |
| Delicatessens  | 19,967           | 62,225                     | //,520                | 63,000                      | 30,200               |  |  |
| N Meat markets   | 10,353           | 54,606                     | 67,830                | 52,905                      | 32,400               |  |  |
| H Fish and Seatood markets                                 | 88/              | 4,445                      | 5,814<br>15 504       | 5,500                       | 5,240                |  |  |
| Fruit stores, vegetable markets                            | 2,219            | L1,429                     | 10,504                | 8 967                       | 0,400                |  |  |
| Debaging nut, contectionery stores                         | 2,027            | 0,009                      | 20,009                | 17 934                      | 10 368               |  |  |
| Bakeries   | 5,402            | 1/,//9                     | 22,207                | 17,994                      | 10,500               |  |  |
| Liquor Stores  | 15,086           | 74,289                     | 107,559               | 95,947                      | 66,096               |  |  |
| Hardware Stores  |                  |                            |                       |                             |                      |  |  |
| Hardware stores with limited lines                         | 7,987            | 38,732                     | 57,171                | 47,525                      | 31,104               |  |  |
| (traditional)  |                  |                            | and the second second |                             |                      |  |  |
| Multi-line hardware stores                                 |                  |                            |                       |                             |                      |  |  |
| (but not including extensive                               |                  |                            |                       |                             |                      |  |  |
| plumbing, neating, and lumber                              |                  |                            |                       |                             |                      |  |  |
| supplies)  | 10,501           | 50,161                     | 74,613                | 62,769                      | 40,824               |  |  |
| Convenience Services                                       |                  |                            |                       |                             |                      |  |  |
| Barber shops   | 7,099            | 28,573                     | 38,760                | 30,488                      | 18,144               |  |  |
| Beauty shops   | 11,388           | 30,097                     | 48,450                | 47,525                      | 34,992               |  |  |
| Dry cleaners   | 7,395            | 25,398                     | 29,070                | 26,004                      | 18,144               |  |  |
| Laundromats (washing, drying only-                         |                  |                            |                       |                             |                      |  |  |
| no dry cleaning)   | 4,881            | 17,144                     | 19,380                | 17,934                      | 12,312               |  |  |
| Shoe repair  | 1,627            | 5,080                      | 5,814                 | 5,380                       | 3,888                |  |  |

|                      | 1004               |
|----------------------|--------------------|
| \$15,000<br>and over |                    |
|                      |                    |
| 33,296<br>61,042     | 339,600<br>628,824 |
| 99,094               | 1,000,508          |
|                      |                    |
| 442,355              | 4,509,387          |
| 531,143              | 5,412,059          |
| 549,376              | 5,596,110          |
|                      |                    |
| 27,746               | 287,412            |
| 24,575               | 242,669            |
| 2,370                | 52,838             |
| 3,964                | 38,642             |
| 7,988                | 79,758             |
| 61,835               | 420,812            |
|                      |                    |
| 29,332               | 211,851            |
| •                    |                    |
|                      |                    |
| 38 845               | 277 713            |
| 50,045               | 277,715            |
| 14 270               | 137 334            |
| 33,296               | 205,748            |
| 19,819               | 125,830            |
| 13,477               | 85,128             |
| 3,964                | 25,753             |
|                      |                    |

Total

# SECONDARY TRADE AREA - 1980 CORE DECLINE (continued)

| Retail Categories  |                       |                         |                            | 1                        |                         |                             |                            |
|--|-----------------------|-------------------------|----------------------------|--------------------------|-------------------------|-----------------------------|----------------------------|
|  | Under<br>\$3,000      | \$3,000-<br>\$5,999     | \$6,000-<br>\$8,999        | \$9,000-<br>\$11,999     | \$12,000-<br>\$14,999   | \$15,000<br><u>and over</u> |                            |
| Primary Shoppers Goods   |                       |                         |                            |                          |                         | <u></u>                     |                            |
| General Merchandise Stores<br>Full-line traditional department   | 98,354                | 466,053                 | 695,742                    | 643,831                  | 440,640                 | 432,842                     | 2,777,462                  |
| stores<br>Limited-line traditional department  | 71,436                | 338,428                 | 504,849                    | 467,181                  | 320,760                 | 313,929                     | 2,016,583                  |
| stores emphasizing soft goods<br>Full-line discount department stores<br>Limited-limited discount department | 94,656<br>73,211      | 448,910<br>347,318      | 663,765<br>518,415         | 616,033<br>480,631       | 420,552<br>327,888      | 416,987<br>321,857          | 2,660,903<br>2,069,320     |
| stores<br>Full-line traditional variety stores   | 15,382                | 73,019                  | 111,435                    | 100,430                  | 68,040                  | 67,384                      | 435,690                    |
| with limited apparel<br>Super variety stores with expanded   | 19,079                | 90,798                  | 135,660                    | 125,538                  | 85,536                  | 84,032                      | 540,643                    |
| apparel<br>Variety stores, limited price and<br>C limited lines  | 11,388                | 53,971                  | 80,427                     | 74,426                   | 51,192                  | 49,943                      | 321,347                    |
| H Major Apparel Stores   |                       |                         |                            | 56 100                   |                         | 4.2 800                     | 2/E 006                    |
| Men's clothing and furnishings stores<br>Women's clothing and furnishings stores                             | 21,889                | 40,002 81,274           | 61,047<br>110,466<br>8 721 | 56,492<br>109,397        | 79,056                  | 42,809<br>84,032<br>7 135   | 486,114                    |
| Children's and infants' clothing stores<br>Family clothing stores<br>Women's shoe stores                     | 7,099<br>8,430        | 39,367<br>33,652        | 62,985<br>50,388           | 54,699<br>46,628         | 33,696<br>32,400        | 26,953<br>28,539            | 224,799<br>200,037         |
| Men's and boys' shoe stores<br>Family shoe stores  | 4,437<br>5,177        | 26,033<br>24,763        | 40,698<br>36,822           | 36,765<br>34,075         | 25,272<br>23,328        | 27,746<br>22,990            | 147,155                    |
| Other Specialty Stores<br>Book and stationery stores<br>Camera and photographic supply                       | 2,514<br>1,331        | 10,159<br>5,080         | 16,473<br>7,752            | 14,347<br>7,174          | 9,720<br>5,184          | 10,306<br>5,549             | 63,519<br>32,070           |
| stores<br>Cigar stores and stands<br>Gift, novelty and souvenir shops<br>Hosiery and lingerie shops          | 887<br>1,479<br>1,479 | 4,445<br>5,715<br>8,254 | 5,814<br>8,721<br>12,597   | 5,380<br>8,070<br>11,657 | 3,888<br>5,832<br>7,128 | 3,171<br>5,549<br>5,549     | 23,585<br>35,366<br>46,664 |
| Jewelry stores<br>Luggage and leather goods stores   | 5,620<br>296          | 22,858<br>1,270         | 33,915<br>1,938            | 31,385<br>1,793          | 21,384<br>1,296         | 1,586                       | 8,179                      |

| Under       \$3,000       \$6,000-       \$9,000-       \$12,001         \$3,000       \$5,999       \$8,999       \$11,999       \$14,999         Other Specialty Stores (continued)       296       1,905       2,907       2,960       1,944         Music stores       2,514       10,160       16,473       14,347       9,720         Sporting goods stores       2,366       9,524       15,504       13,451       9,072         Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984 |      |
|---|------|
| Other Specialty Stores (continued)       296       1,905       2,907       2,960       1,944         Music stores       2,514       10,160       16,473       14,347       9,720         Sporting goods stores       2,366       9,524       15,504       13,451       9,072         Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984  | <br> |
| Millinery shops       296       1,905       2,907       2,960       1,944         Music stores       2,514       10,160       16,473       14,347       9,720         Sporting goods stores       2,366       9,524       15,504       13,451       9,072         Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984   |      |
| Music stores       2,514       10,160       16,473       14,347       9,720         Sporting goods stores       2,366       9,524       15,504       13,451       9,072         Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984   |      |
| Sporting goods stores       2,366       9,524       15,504       13,451       9,072         Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984   |      |
| Florist shops       2,662       10,794       17,442       15,244       11,906         Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984   |      |
| Optical goods stores       1,923       7,610       12,597       10,760       7,776         Toy and hobby stores       887       3,810       5,814       5,380       3,888         Secondary Shoppers Goods       14,938       90,163       126,939       112,088       69,984   |      |
| Toy and hobby stores1,227Secondary Shoppers Goods887Furniture and household furnishings14,938\$90,163126,939\$12,08869,984  |      |
| Secondary Shoppers Goods<br>Furniture and household furnishings<br>stores 14,938 90,163 126,939 112,088 69,984  |      |
| Furniture and household furnishings<br>stores 14,938 90,163 126,939 112,088 69,984  |      |
| stores 14,938 90,163 126,939 112,088 69,984   |      |
|   |      |
| Household applicanes, television and  |      |
| radio stores 15.086 76.829 110.466 78.013 42,120  |      |
| Floor coverings stores 3,402 13,334 21,318 18,831 13,608  |      |
| ∞ Passenger car dealers 153,372 653,999 930,240 770,265 467,208   |      |
| Tire, battery and accessory stores 8,282 35,557 49,419 41,248 25,272  |      |
| H Paint, glass and wallpaper stores 2,810 13,334 20,349 17,037 11,016   |      |
|   |      |
| Other Goods and Services  |      |
| Gasoline service stations, with   |      |
| limited accessories 71,436 304,776 426,360 334,469 195,696  |      |
| Eating and drinking places 59,160 203,184 280,041 269,907 188,568   |      |

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| \$15,000-<br>and over | TOTAL         |
|-----------------------|---------------|
| 1,586                 | 11,328        |
| 10,306                | 63,520        |
| 9,513                 | 59,430        |
| 11,099                | 68.257        |
| 7,928                 | <b>48,594</b> |
| 3,964                 | 23,743        |
| 57,871                | 471,983       |
| 41.223                | 363,737       |
| 13,477                | 83,970        |
| 340,090               | 3,315,174     |
| 18,233                | 178,011       |
| 10,306                | 74,852        |
| 122,084               | 1,454,821     |
| 191,053               | 1,191,913     |

# RETAIL CATEGORY EXPENDITURES BY INCOME Secondary Trade Area - 1980 Trends Extended

| Potail Categories                          |                  |  |   |                                       |                       |
|--|------------------|--|---|---------------------------------------|-----------------------|
| Ketarr Categories                          | Under<br>\$3,000 | \$3,000-<br>\$5,999                      | \$6,000-<br>\$8,999   | \$9,000-<br>\$11,999                  | \$12,000-<br>\$14,999 |
| Convenience Goods                          |                  | اردون <del>مېر</del> ې د د مېرون مېرون و | میں بی ایک میں ایک میں<br>میں میں ایک میں | <u></u>                               |                       |
| Drug Stores                                | 22 000           | 0.0 0.5 (                                |   | 70 / (0                               |                       |
| Drug stores with traditional lines         | 23,088           | 92,830                                   | 90,002<br>175 711   | 120 060                               | 45,055                |
| Self-service, multi-line drug stores       | 42,270           | 104,951                                  | 1/3,/11   | 139,009                               | 04,101                |
| (excluding liquor)                         | 68,952           | 277.007                                  | 282.576   | 227,052                               | 136,196               |
| Suparmarkats and Food Stores               |                  | <b>-</b>                                 | ,   |                                       | • · · ·               |
| Supermarkets with limited nonfoods         | 334 620          | 1 214 927                                | 1.301.906   | 1 014 166                             | 604.325               |
| Supermarkets with expanded nonfoods        | 401,544          | 1,214,927                                | 1,562,904   | 1,217,566                             | 724,780               |
| Discount supermarkets with expanded        | 101,011          |  | 1,302,3001  | -,, , , , , , , , , , , , , , , , , , | ,                     |
| nonfoods                                   | 414,960          | 1,506,759                                | 1,615,309   | 1,260,139                             | 749,418               |
|  |                  |  |   |                                       |                       |
| Specialty Food Stores                      | 01 060           |  | 00 00/  | (7 170                                | 20 226                |
| Delicatessens                              | 21,060           | /6,469                                   | 82,204  | 6/,1/U                                | 30,320                |
| Meat markets                               | 18,408           | 07,100<br>5 / 6 2                        | /1,929  | 5,017                                 | 34,220                |
| S Fish and seafood markets                 | 1,500            | J,402                                    | 0,100   | 12 200                                | 5,422                 |
| I Fruit stores, vegetalbe markets          | 3,900            | 14,045                                   | 10,441  | 12,299                                | 4 701                 |
| Candy, nut, confectionery stores           | 2,904            | 10,924                                   | 11,505  | 9,401                                 | 10 950                |
| A Bakeries                                 | 0,004            | 21,040                                   | 25,054  | 10,921                                | 10,750                |
| LiquorStores                               | 15,912           | 91,295                                   | 114,058   | 101,227                               | 69,809                |
|  |                  |  |   |                                       |                       |
| Hardware Stores                            |                  |  |   |                                       |                       |
| (traditional)                              | (* 0 / 0/        | 17 500                                   |   | FO 1/1                                | 00 OF 1               |
| (llaullonal)<br>Multi-line hardware stores | • 8,424          | 47,598                                   | 69,625  | 50,141                                | 32,851                |
| (but not including extensive               |                  |  | and the second  |                                       |                       |
| nlumbing, heating and lumber               |                  |  |   |                                       |                       |
| supplies)                                  | 11,076           | 61,644                                   | 79,121  | 66,224                                | 43,117                |
|  |                  |  |   |                                       |                       |
| Convenience Services                       |                  |  |   |                                       |                       |
| Barber shops                               | 7,488            | 35,114                                   | 41,102  | 32,166                                | 19,163                |
| Beauty shops                               | 12,012           | 46,818                                   | 51,378  | 50,±41                                | 56,988                |
| Dry cleaners                               | 7,800            | 31,212                                   | 30,827  | 27,435                                | 19,163                |
| Laundromats (washing, drying only-         |                  |  |   |                                       |                       |
| no dry cleaning)                           | 5,148            | 21,068                                   | 20,551  | 18,921                                | 13,004                |
| Shoe repair                                | 1,716            | 6,242                                    | 6,165   | 5,676                                 | 4,106                 |

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|                 | Total     |
|-----------------|-----------|
| \$15,000        |           |
| <u>and over</u> |           |
|                 |           |
|                 |           |
| 35 501          | 372 330   |
| 65,084          | 691,252   |
| ,               |           |
| 105,656         | 1,097,439 |
|                 |           |
| 471,650         | 4,951,594 |
| 566,318         | 5,930,712 |
| 585 758         | 6 132 343 |
| 565,756         | 0,102,040 |
|                 |           |
| 29,584          | 314,813   |
| 26,203          | 2/3,683   |
| 5,917           | 59.446    |
| 4,226           | 43,669    |
| 8,453           | 89,890    |
|                 |           |
| 65,930          | 458,231   |
|                 |           |
|                 |           |
| 31,274          | 230.913   |
| · · · · ·       | ,         |
|                 |           |
| 41.417          | 302.599   |
| • - •           |           |
|                 |           |
| 15,215          | 150,248   |
| 35,501          | 232.805   |
| 21,131          | 13/,508   |
| 14,369          | 93.061    |
| 4,226           | 28,131    |
|                 |           |

SECONDARY TRADE AREA - 1980 TRENDS EXTENDED

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| Retail Categories                                  |                  | •  |                            |                             | n an | - To1                | tal              |
|--|------------------|--|----------------------------|-----------------------------|--|----------------------|------------------|
|  | Under<br>\$3,000 | \$3,000-<br><u>\$5,999</u>                         | \$6,000-<br><u>\$8,999</u> | \$9,000-<br><u>\$11,999</u> | \$12,000-<br>\$14,999                    | \$15,000<br>and over | -                |
| Dnimany Shannare Goods                             |                  |  |                            |                             |  |                      |                  |
| General Merchandise Stores                         | 103,740          | 572,740  | 737,781                    | 679,264                     | 465,392                                  | 461,507              | 3,020,42         |
| Eull-line traditional department                   |                  |  |                            |                             |  |                      |                  |
| ctoras   | 75,348           | 415,900  | 535,354                    | 492,892                     | 338,778                                  | 334,719              | 2,192,97/        |
| Limited-line traditional department                | 99,840           | 551,672  | 703,872                    | 649,936                     | 444,176                                  | 444,602              | 2,894,098        |
| Full-line discount department stores               | 77,220           | 426,824  | 549,739                    | 507,083                     | 346,306                                  | 343,172              | 2,250,344        |
| Limited-line discount department stores            |                  |  |                            |                             |  |                      |                  |
| with limited apparel                               | 16.224           | 89,735   | 118,168                    | 105,958                     | 71,862                                   | 71,846               | 473,7 <b>93</b>  |
| Super variety stores with expanded                 | 1                |  |                            |                             |  |                      |                  |
| apparel  | 20,124           | 111,583  | 143,857                    | 132,447                     | 90,341                                   | 89,597               | 587,944          |
| Variety stores, limited price<br>and limited lines | 12,012           | 66,326   | 85,287                     | 78,522                      | 54,068                                   | 53,251               | 349,4 <b>66</b>  |
| Major Apparel Stores                               |                  | ana di sana sa |                            |                             |  |                      |                  |
| Men's clothing and furnishings stores              | 7,020            | 49,159   | 64,736                     | 59,601                      | 41,064                                   | 45,644               | 267,227          |
| Women's clothing and furnishings stores            | 23,088           | 99,878   | 117,141                    | 115,418                     | 83,497                                   | 89,597               | 528,614          |
| Children's and infants' clothing stores            | 1,872            | 8,583  | 9,248                      | 9,461                       | 7,528                                    | /,60/                | 44,299           |
| Family clothing stores                             | 7,488            | 48,379   | 66,791                     | 57,709                      | 35,589                                   | 28,739               | 244,04           |
| Women's shoe stores                                | 8,892            | 41,356   | 53,433                     | 49,195                      | 34,220                                   | 30,429               | 21/, 3 <b>4</b>  |
| Men's and boys' shoe stores                        | 4,680            | 31,992   | 43,157                     | 38,788                      | 26,692                                   | 29,584               | 1/4,0/-          |
| Family shoe stores                                 | 5,460            | 30,432   | 39,047                     | 35,950                      | 24,638                                   | 24,512               | _160 <b>,007</b> |
| Other Specialty Stores                             |                  |  |                            |                             |  |                      |                  |
| Deak and stationery stores                         | 2.652            | 12,485   | 17.468                     | 15,137                      | 10,266                                   | 10,988               | 68,996           |
| BOOK and stationery stores                         | 1,404            | 6,242  | 8,220                      | 7,568                       | 5,475                                    | 5,917                | 34,826           |
| camera and photographic supply stores              | 936              | 5 462  | 6.165                      | 5,676                       | 4,106                                    | 3,381                | 25,726           |
| cigar stores and stands                            | 1 560            | 2,023  | 9,248                      | 8,514                       | 6,160                                    | 5,917                | 33,422           |
| witt, noveity and souvenir snops                   | 1 560            | 10,144   | 13,358                     | 12,299                      | 7,528                                    | 5,917                | 50,8 <b>06</b>   |
| Hosiery and lingerie shops                         | 5 0 2 0          | 28 001   | 35 964                     | 33 112                      | 22.585                                   | 20.286               | 145,96           |
| Jewelry shops:<br>Luggage and leather goods stores | 312              | 1,561  | 2,055                      | 1,892                       | 1,369                                    | 1,691                | 8,800            |

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|  | SECONDARY TRADE AREA - 1980 TRENDS EXTENDED    |   |  |  |  |  |  |
|--|--|---|--|--|--|--|--|
|  | Under<br>\$3,000                               | \$3,000-<br>\$5,999                                   | \$6,000-<br><u>\$8,999</u>                             | \$9,000-<br>\$11,999                                   | \$12,000-<br>\$14,999                                |  |  |
| Other Specialty Stores (continued)<br>Millinery shops<br>Music stores<br>Sporting goods stores<br>Florist shops<br>Optical goods stores<br>Toy and hobby stores                          | 312<br>2,652<br>2,496<br>2,808<br>2,028<br>936 | 2,341<br>12,485<br>11,705<br>13,265<br>9,364<br>4,682 | 3,083<br>17,468<br>16,441<br>18,496<br>13,358<br>6,165 | 2,838<br>15,137<br>14,191<br>16,083<br>11,353<br>5,676 | 2,053<br>10,266<br>9,582<br>11,635<br>8,213<br>4,106 |  |  |
| Secondary Shoppers Goods<br>Furniture and household furnishings  | 15,756   | 110,803   | 134,609  | 118,256  | 73,915   |  |  |
| Household applicanes, television and<br>radio stores<br>Floor coverings stores<br>⊣ Passenger car dealers<br>™ Tire, battery and accessory stores<br>⊣ Paint, glass and wallpaper stores | 15,912<br>3,588<br>161,772<br>8,736<br>2,964   | 94,416<br>16,386<br>803,709<br>43,697<br>16,386       | 144,885<br>22,606<br>986,448<br>52,405<br>21,579       | 82,306<br>19,867<br>812,657<br>43,518<br>17,975        | 44,486<br>14,372<br>493,452<br>26,692<br>11,635      |  |  |
| Generic Goods and Services     Gasoline service stations, with     limited accessories     Eating and drinking places  | 75,348<br>62,400                               | 374,544<br>249,696                                    | 452,122<br>296,962                                     | 352,877<br>284,761                                     | 206,689<br>199,160                                   |  |  |

 $\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$ 

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| \$15,000-<br>and over | TOTAL     |
|-----------------------|-----------|
| 1,691                 | 12,318    |
| 10,988                | 69,296    |
| 10,143                | 64,558    |
| 11,834                | 74,121    |
| 8,453                 | 52,769    |
| 4,226                 | 25,791    |
| 61,703                | 515,042   |
| 43,953                | 425,958   |
| 14,369                | 91,188    |
| 362,612               | 3,620,650 |
| 19,441                | 194,489   |
| 10,988                | 81,527    |
| 130,169               | 1,591,749 |
| 203,705               | 1,296,684 |

# RETAIL CATEGORY EXPENDITURES BY INCOME Secondary Trade Area - 1980 Core Intensive

Retail Categories

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|  | Under<br>\$3,000 | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999 | \$9,000-<br>\$11,999 | \$12,000-<br>\$14,999 |
|--|------------------|---------------------|---------------------|----------------------|-----------------------|
| Convenience Goods<br>Drug Stores                                       |                  |                     |                     |                      |                       |
| Pharmaceutical drug stores   | 25,064           | 104,101             | 106,439             | 88,641               | 51,282                |
| Drug stores with traditional lines                                     | 45,894           | 207,328             | 195,710             | 155,122              | 94,144                |
| Self-service, multi-line drug stores<br>(excluding liquor)             | 74,853           | 310,554             | 314,738             | 253,260              | 152,315               |
| Supermarkets and Food Stores   |                  |                     |                     |                      |                       |
| Supermarkets with limited nonfoods                                     | 363,256          | 1,362,064           | 1,450,082           | 1,131,228            | 675,848               |
| Supermarkets with expanded nonfoods                                    | 435,90/          | 1,634,126           | 1,740,785           | 1,358,10/            | 810,559               |
| nonfoods   | 50,4/1           | 1,689,239           | 1,/9/,154           | 1,405,593            | 838,113               |
| Specialty Food Stores  |                  |                     |                     |                      |                       |
| Delicatessens  | 22,862           | 85,730              | 91,560              | 74,923               | 42,862                |
| Meat markets   | 19,983           | 75,233              | 80,115              | 62,260               | 38,270                |
| 💊 Fish and seafood markets   | 1,694            | 6,124               | 6,867               | 6,332                | 6,827                 |
| ጥ Fruit stores, vegetalbe markets                                      | 4,234            | 15,746              | 18,312              | 13,718               | 7,654                 |
| ப் Candy, nut, confectionery stores                                    | 3,218            | 12,247              | 12,590              | 10,553               | 5,358                 |
| 🛪 Bakeries   | 6,605            | 24,494              | 26,324              | 21,105               | 12,246                |
| LiquorStores   | 17,274           | 102,352             | 127,040             | 112,912              | 78,071                |
| Hardware Stores<br>Hardware stores with limited lines<br>(traditional) | 9,145            | 53,363              | 67,526              | 55,928               | 36,739                |
| Multi-line hardware stores   | 12,024           | 69,109              | 88,127              | 73,868               | 48,220                |
| plumbing, heating and lumber supplies)                                 |                  |                     |                     |                      |                       |
| Convenience Services   |                  |                     |                     |                      |                       |
| Barber shops   | 8,129            | 39,366              | 45,780              | 35,879               | 21,431                |
| Beauty shops   | 13,040           | 52,488              | 57,225              | 55,928               | 41,332                |
| Dry cleaners   | 8,468            | 34,992              | 34,335              | 30,602               | 21,431                |
| Laundromats (washing, drying only-                                     | 5,589            | 23,620              | 22,890              | 21,105               | 14,543                |
| Shoe repair  | 1,863            | 6,998               | 6,867               | 6,332                | 4,592                 |
|  |                  |                     |                     |                      |                       |

|                 | 10041     |
|-----------------|-----------|
| \$15,000        |           |
| <u>and over</u> |           |
|                 |           |
|                 |           |
| 39,690          | 415,217   |
| 72,765          | 770,963   |
| 118,125         | 1,223,845 |
| -               |           |
|                 |           |
| 527,310         | 5,509,788 |
| 633,150         | 6,612,634 |
| 654,885         | 6,837,455 |
|                 |           |
|                 |           |
| 33 075          | 351 012   |
| 29,295          | 205,156   |
| 2,835           | 27,679    |
| 6,615           | 66,279    |
| 4,725           | 48,691    |
| 9,450           | 100,224   |
| 72 710          | 511 250   |
| /3,/10          | 511,559   |
| <b></b>         |           |
| 34,965          | 257,000   |
|                 |           |
| 46,305          | 337,653   |
|                 |           |
|                 |           |
|                 |           |
|                 |           |
| 17,010          | 167,595   |
| 39,690          | 259,703   |
| 23,625          | 153,453   |
| 16,065          | 103,812   |
| 4 725           | 31 377    |
| 7,765           | 51,577    |

Total

# SECONDARY TRADE AREA - 1980 CORE INTENSIVE (continued)

# <u>Retail Categories</u>

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|  | Under<br>\$3,000 | \$3,000-<br><u>\$5,999</u> | \$6,000-<br><u>\$8,999</u> | \$9,000-<br><u>\$11,999</u> | \$12,000-<br><u>\$14,999</u> |
|--|------------------|----------------------------|----------------------------|-----------------------------|------------------------------|
| Primary Shoppers Goods   |                  | · · · ·                    |                            |                             |                              |
| General Merchandise Stores   |                  |                            |                            |                             |                              |
| Full-line traditional department stores                              | 112,618          | 642,103                    | 821,751                    | 757,670                     | 520,472                      |
| Limited-line traditional department<br>stores emphasizing soft goods | 81,796           | 466,268                    | 596,285                    | 549,785                     | 378,873                      |
| Full-line discount department stores                                 | 103.384          | 618,484                    | 783,983                    | 724.957                     | 496,745                      |
| Limited-limited discount department stores                           | 83,828           | 478,516                    | 612,308                    | 565,614                     | 387,292                      |
| Full-line traditional variety stores with limited apparel            | 17,612           | 100,602                    | 131,618                    | 118,188                     | 80,367                       |
| Super variety stores with expanded apparel                           | 21,846           | 125,096                    | 160,230                    | 147,735                     | 101,033                      |
| Variety stores, limited price and<br>}limited lines                  | 13,040           | 74,358                     | 94,994                     | 87,586                      | 60,467                       |
| Major Apparel Stores   |                  |                            |                            |                             |                              |
| Men's clothing and furnishings stores                                | 7,621            | 55,112                     | 72,104                     | 66.481                      | 45,924                       |
| Women's clothing and furnishings stores                              | 25,064           | 111,974                    | 130,473                    | 128,741                     | 93,379                       |
| Children's and infants' clothing stores                              | 2.032            | 9,623                      | 10,301                     | 10,553                      | 8,419                        |
| Family clothing stores   | 8,129            | 54,238                     | 74,393                     | 64,370                      | 39,801                       |
| Women's shoe stores  | 9,653            | 46,364                     | 59,514                     | 54,873                      | 38,720                       |
| Men's and boys' shoe stores  | 5,081            | 35,867                     | 48,069                     | 43,265                      | 29,851                       |
| Family shoe stores   | 5,927            | 34,117                     | 43,491                     | 40,100                      | 27,554                       |
| Other Specialty Stores   |                  |                            |                            |                             |                              |
| Book and stationery stores   | 2 8 7 9          | 13 007                     | 10 / 57                    | 16 884                      | 11 481                       |
| Camera and photographic supply stores                                | 1,524            | 6,998                      | 9,156                      | 8,442                       | 6,123                        |
| Cigar stores and stands  | 1.016            | 6.124                      | 6,867                      | 6,332                       | 4,592                        |
| Gift, novelty and souvenir shops                                     | 1,694            | 7,873                      | 10,301                     | 9,497                       | 6,889                        |
| Hostery and lingerie shops   | 1,694            | 11,372                     | 14,879                     | 13,718                      | 8,419                        |
| Jeweiry stores   | 6,435            | 31,493                     | 40,058                     | 36,934                      | 25,258                       |
| Luggage and leather goods stores                                     | 339              | 1,750                      | 2,289                      | 2,111                       | 1,531                        |
|  |                  |                            |                            |                             |                              |

| \$15,000<br>and over |                        |
|----------------------|------------------------|
|                      |                        |
| 515,970              | 3,370,584              |
| 374,220              | 2,447,227              |
| 497,070<br>383,670   | 3,229,623<br>2,511,228 |
| 80,325               | 528,712                |
| 100,170              | 656,110                |
| 59,535               | 389,980                |
|                      |                        |
| 51,030<br>100,170    | 298,272<br>589,801     |
| 8,505                | 49,433                 |
| 32,130               | 2/3,061                |
| 33,075               | 195,208                |
| 27,405               | 1/8,594                |
| 12,285               | 76,983                 |
| 6,615                | 38,858                 |
| 3,780                | 28,711                 |
| 6,615                | 56,697                 |
| 22,680               | 162,858                |
| Ι,890                | 9,910                  |

Total

# SECONDARY TRADE AREA - 1980 CORE INTENSIVE (continued)

### Retail Categories

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|   | Under<br>\$3,000                        | \$3,000-<br>\$5,999                           | \$6,000-<br>\$8,999                           | \$9,000-<br><u>\$11,999</u>                            | \$12,000-<br><u>\$14,999</u>                          | \$15,000-<br>and over                                 |  |
|---|---|---|---|--|---|---|--|
| Other Specialty Stores (continued)<br>Millinery shops<br>Music stores<br>Sporting goods stores<br>Florist shops<br>Optical goods stores | 339<br>2,879<br>2,710<br>3,048<br>2,202 | 2,624<br>13,997<br>13,122<br>14,879<br>10,498 | 3,434<br>19,457<br>18,312<br>12,663<br>14,879 | 3,166<br>16,884<br>15,829<br>17,939<br>12,663<br>6 332 | 2,296<br>11,481<br>10,716<br>13,012<br>9,148<br>4 574 | 1,890<br>12,285<br>11,340<br>13,230<br>9,450<br>4,725 | 13,749<br>76,983<br>72,029<br>82,702<br>58,840<br>28,763 |
| Toy and hobby stores<br><u>Secondary Shoppers Goods</u><br>Furniture and household furnishings  | 1,016                                   | 5,249<br>124,222                              | 149,930                                       | 131,906  | 82,663  | 68,985  | 574,810  |
| stores<br>Household appliances, television<br>and radio stores  | 17,274                                  | 105,851                                       | 130,473                                       | 91,807   | 49,751  | 49,140  | 444,296  |
| Floor coverings stores<br>Passenger car dealers<br>Tire, battery and accessory stores<br>Paint, glass and wallpaper stores              | 3,895<br>175,616<br>9,484<br>3,218      | 18,371<br>901,044<br>48,989<br>18,371         | 25,179<br>1,098,720<br>58,370<br>24,035       | 22,160<br>906,460<br>48,542<br>20,050                  | 16,073<br>551,853<br>29,851<br>13,012                 | 405,405<br>21,735<br>12,285                           | 4,039,098<br>216,971<br>90,971                           |
| Other Goods and Services<br>Gasoline service stations, with   | 81,796                                  | 419,904                                       | 503,580                                       | 393,608  | 231,151   | 145,530   | 1,775,569  |
| limited accessories<br>Eating and drinking places   | 67,740                                  | 279,936                                       | 330,761                                       | 317,630  | 222,731   | 227,745   | 1,446,543  |

Total

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# RETAIL CATEGORY EXPENDITURES BY INCOME The Whole Trade Area - 1970

| Retail Categories  |   |   |   |  |  |
|--|---|---|---|--|--|
|  | Under<br>\$3,000                                      | \$3,000-<br><u>\$5,999</u>                                | \$6,000-<br>\$8,999                                       | \$9,000-<br>\$11,999                                     | \$12,000-<br><u>\$14,999</u>                           |
| <u>Convenience Good</u> s<br>Drug Stores<br>Pharmaceutical drug stores<br>Drug stores with traditional lines<br>Self-service, multi-line drug stores<br>(excluding liquor)         | 42,935<br>42,935<br>78,617<br>12,822                  | 157,919<br>157,919<br>314,511<br>471,103                  | 143,755<br>143,755<br>264,323<br>425,081                  | 122,774<br>122,774<br>214,855<br>350,784                 | 67,928<br>67,928<br>124,704<br>201,756                 |
| Supermarkets and Food Stores<br>Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods<br>Discount supermarkets with expanded<br>nonfoods                       | 622,265<br>746,717<br>771,666                         | 2,066,217<br>2,478,929<br>2,562,534                       | 1,958,465<br>2,351,086<br>2,429,919                       | 1,566,835<br>1,881,079<br>1,946,851                      | 895,230<br>1,073,667<br>1,110,166                      |
| Specialty Food Stores<br>Delicatessens<br>Meat markets<br>Fish and seafood markets<br>Fruit stores, vegetable markets<br>Candy, nut, confectionery stores<br>Bakeries              | 39,164<br>34,232<br>2,901<br>7,253<br>5,512<br>11,314 | 130,051<br>114,126<br>9,289<br>23,887<br>18,579<br>37,157 | 123,660<br>108,203<br>9,275<br>24,732<br>17,003<br>35,552 | 103,774<br>86,234<br>8,770<br>19,001<br>14,616<br>29,232 | 56,776<br>50,693<br>5,069<br>10,138<br>7,097<br>16,222 |
| Liquor Stores  | 29,590  | 155,265   | 171,578   | 156,391  | 103,413  |
| Hardware Stores<br>Hardware stores with limited lines<br>(traditional)<br>Multi-line hardware stores<br>(but not including extensive<br>plumbing, heating, and lumber<br>supplies) | 15,665<br>20,597                                      | 80,950<br>104,837   | 91,199<br>119,023   | 77,465<br>102,312  | 48,665<br>63,873                                       |
| <u>Convenience Services</u><br>Barber shops<br>Beauty shops<br>Dry cleaners<br>Laundromats (washing, drying only-<br>no dry cleaning)  | 13,925<br>22,338<br>14,505<br>9,573                   | 59,717<br>79,623<br>53,082<br>35,830                      | 61,830<br>77,288<br>46,373<br>30,915                      | 49,694<br>77,465<br>42,386<br>29,232                     | 28,388<br>54,750<br>28,388<br>19,263                   |
| Shoe repair  | 3,191   | 10,616  | 9,295   | 8,770  | 6,083  |

Total

| \$15,000<br>and over |           |
|----------------------|-----------|
| 51,597               | 586,908   |
| 51,597               | 586,908   |
| 94,595               | 1,091,605 |
| 153,563              | 1,615,109 |
| 685,503              | 7,794,505 |
| 823,095              | 9,354,573 |
| 851,351              | 9,672,487 |
| 42,998               | 496,423   |
| 38,084               | 431,572   |
| 3,686                | 38,990    |
| 8,600                | 93,611    |
| 6,143                | 68,950    |
| 12,285               | 141,762   |
| 95,823               | 712,060   |
| 45,455               | 359,399   |
| 60,197               | 470,839   |
| 22,113               | 235,667   |
| 51,597               | 363,061   |
| 30,713               | 215,447   |
| 20,885               | 145,698   |
| 6,143                | 44,078    |

THE WHOLE TRADE AREA - 1970 (continued)

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| <u>Retail Categories</u>   |                    |                     |                                       |                      |                       |                      | Total                  |
|--|--------------------|---------------------|---------------------------------------|----------------------|-----------------------|----------------------|------------------------|
|  | Under<br>\$3,000   | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999                   | \$9,000-<br>\$11,999 | \$12,000-<br>\$14,000 | \$15,000<br>and over | 0-<br><u>r</u>         |
| Primary Shoppers Goods   |                    |                     | · · · · · · · · · · · · · · · · · · · |                      |                       |                      |                        |
| Full-line traditional department<br>stores   | 192,917            | 974,055             | 1,109,848                             | 1,049,429            | 689,418               | 670,761              | 4,686,428              |
| Limited-line traditional department stores emphasizing soft goods                  | 140,118            | 707,318             | 805,336                               | 761,494              | 501,856               | 486,486              | 3,402,608              |
| Full-line discount department stores<br>Limited-line discount department<br>stores | 185,664<br>143,600 | 938,224<br>725,896  | 1,061,930<br>828,522                  | 1,004,119<br>783,418 | 657,989<br>513,008    | 646,191<br>498,771   | 4,494,117<br>3,493,215 |
| Full-line traditional variety stores with limited apparel                          | 30,170             | 152,611             | 173,124                               | 163,699              | 106,454               | 104,423              | 730,481                |
| Super variety stores with expanded   | 37,423             | 189,768             | 216,405                               | 204,624              | 133,828               | 130,221              | 912,269                |
| Variety stores, limited price<br>and limited lines                                 | 22,338             | 112,799             | 128,297                               | 121,313              | 80,094                | 77,396               | 542,237                |
| Major Apparel Stores   | 10 055             | 00 004              | 07 000                                | 00.001               | CO 021                | CC 220               | 112 202                |
| H Mens clothing and furnishings stores   | 13,055             | 83,604              | 97,383                                | 92,081               | 00,831                | 00,339               | 413,293                |
| Women's clothing and furnishings stores  | 42,935             | 109,802             | 1/0,210                               | 1/8,315              | 123,090               | 130,221              | 60 016                 |
| Eamily clothing stores   | 3,401              | 14,090              | 13,012                                | 90 150               | 52 720                | 11,057               | 374 140                |
| Women's shoe stores  | 16 536             | 70 331              | 24,231<br>20 370                      | 76 003               | 50 693                | 44,226               | 338,171                |
| Men's and boys' shoe stores  | 8,703              | 54,409              | 63,376                                | 59,926               | 39,540                | 42,998               | 268,952                |
| Family shoe stores   | 10,154             | 51,755              | 58,739                                | 55,541               | 36,499                | 35,627               | 248,815                |
| Other Specialty Stores   | 4 0 0 0            | 01 000              | 04 700                                | 0.0. 0.00            | 15 200                | 15 071               |                        |
| BOOK and stationery stores   | 4,932              | 21,233              | 24,/32                                | 23,380               | 15,208                | 15,971               | 105,40Z                |
| Camera and photographic supply stores  | 2,011              | 10,017              | 12,300                                | 9 770                | 6 082                 | 0,000<br>1 911       | 20 072                 |
| Gift novelty and souvenir shops  | 2 001              | 11 0/13             | 13 012                                | 13 154               | 9,125                 | 8,600                | 59,635                 |
| Hosierv and lingerie shops   | 2,901              | 17,252              | 20.095                                | 19,001               | 11,152                | 8,600                | 79,001                 |
| Jewelry stores   | 9.863              | 50,428              | 54,101                                | 51,156               | 33,457                | 29.484               | 228.489                |
| Luggage and leather goods stores   | 580                | 2,654               | 3,092                                 | 2,923                | 2,028                 | 2,457                | 13,734                 |
| -  |                    |                     |                                       |                      |                       |                      |                        |

# THE WHOLE TRADE AREA- 1970 (continued)

# Retail Categories

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|  | Under<br>\$3,000 | \$3,000-<br><u>\$5,999</u> | \$6,000-<br><u>\$8,999</u> | - \$9,000-<br><u>\$11,999</u> | \$12,0<br>\$14,9 | 000- \$15<br>999 and | ,000-<br><u>over</u> |
|--|------------------|----------------------------|----------------------------|-------------------------------|------------------|----------------------|----------------------|
| Other Specialty Stores (continued)                     |                  |                            |                            |                               | <u> </u>         |                      |                      |
| Millinery shops  | 580              | 3,981                      | 4,637                      | 4,385                         | 3,042            | 2,457                | 19,082               |
| Music stores <sup>3</sup>                              | 4,932            | 21,233                     | 26,278                     | 23,386                        | 15,208           | 15,971               | 107,008              |
| Sporting goods stores                                  | 4,642            | 19,906                     | 24,732                     | 21,924                        | 14,194           | 14,792               | 100,140              |
| Florist shops  | 5,222            | 22,560                     | 27,824                     | 24,847                        | 17,235           | 17,199               | 114,887              |
| Optical goods stores                                   | 3,771            | 15,925                     | 20,095                     | 17,539                        | 12,166           | 12,285               | 81,781               |
| Toy and hobby stores                                   | 17,41            | 7,962                      | 9,275                      | 8,770                         | 6,083            | 6,143                | 39,974               |
| Secondary Shoppers Goods                               |                  |                            |                            |                               |                  |                      |                      |
| Furniture and household furnishings                    | 29,300           | 188,441                    | 202,493                    | 182,200                       | 109,496          | 89,681               | 802,111              |
| Household appliances, television and radio stores      | 29,590           | 160,573                    | 176,216                    | 127,159                       | 65,900           | 63,882               | 623,320              |
| ▶ Floor coverings stores                               | 6,672            | 27,868                     | 34,007                     | 30,694                        | 21,291           | 20,885               | 141,417              |
| 🖓 Passenger car dealers                                | 300,834          | 1,366,862                  | 1,483,920                  | 1,255,514                     | 730,986          | 527,027              | 5,665,143            |
| H Tire, battery and accessory stores                   | 16,246           | 74,315                     | 78,833                     | 67,234                        | 39,540           | 28,256               | 304,424              |
| 🦽 Paint, glass and wallpaper stores                    | 5,512            | 27,868                     | 32,461                     | 27,770                        | 17,735           | 15,971               | 126,817              |
| Other Goods and Services                               |                  |                            |                            |                               |                  |                      |                      |
| Gasoline service stations, with<br>limited accessories | 140,118          | 636,984                    | 680,130                    | 545,177                       | 306,183          | 189,189              | 2,397,781            |
| Eating and drinking places                             | 116,040          | 424,656                    | 446,722                    | 439,942                       | 295,030          | 296,069              | 1,918,459            |

Total

# RETAIL CATEGORY EXPENDITURES BY INCOME

The Whole Trade Area - 1980 Core Decline

| Potail Categories   |   |   |   |  |   |   | Total   |   |
|---|---|---|---|--|---|---|---|---|
| Metall Categories   | Under<br>\$3,000                                      | \$ <b>3,0</b> 00-<br>\$5,999                              | \$6,000<br>\$8,999  | \$9,000<br>\$11, <b>999</b>                              | \$12,000-<br>\$14,999                                 | \$15,000<br>and over                                  |   |   |
| Convenience Goods   | ann <u>addin a gy</u> gan a a san an                  |   |   |  |   |   |   |   |
| Drug stores<br>Pharmaceutical drug stores<br>Drug stores with traditional lines<br>Self-service, multi-line drug stores<br>(excluding liquor)                         | 41,758<br>78,463<br>124,710                           | 141,426<br>281,663<br>421,900                             | 139,291<br>256,115<br>411,881                             | 119,070<br>208,372<br>340,200                            | 65,848<br>120,884<br>195,577                          | 49,760<br>91,226<br>148,094                           | 557,153<br>1,036,723<br>1,642,362                           | • |
| Supermarkets and Food Stores<br>Supermarkets with limited nonfoods<br>Supermarkets with expanded nonfoods<br>Discount supermarkets with expanded<br>nonfoods          | 605,212<br>72 <b>5</b> ,254<br>750,519                | 1,852,794<br>2,220,025<br>2,294,897                       | 1,897,649<br>2,278,078<br>2,354,468                       | 1,519,560<br>1,824,322<br>1,888,110                      | 867,812<br>1,040,785<br>1,076,166                     | 661,091<br>793,783<br>821,032                         | 7,404,118<br>8,883,247<br>9,185,192                         |   |
| Specialty Food Stores<br>Delicatessens<br>Meat markets<br>Fish and seafood markets<br>Fruit stores, vegetable markets<br>Candy, nut, confectionery stores<br>Bakeries | 38,090<br>33,294<br>2,822<br>7,054<br>5,361<br>11,004 | 116,468<br>102,207<br>8,319<br>21,392<br>16,638<br>33,276 | 119,820<br>104,842<br>8,987<br>23,964<br>16,475<br>34,448 | 100,642<br>83,632<br>8,505<br>18,428<br>14,175<br>28,350 | 55,037<br>49,140<br>4,914<br>9,828<br>6,880<br>15,725 | 41,466<br>36,721<br>3,554<br>8,293<br>5,924<br>11,848 | 471,523<br>409,836<br>37,101<br>88,959<br>65,453<br>134,651 |   |
| Liquor Stores   | 28,779  | 139,049   | 166,250   | 151,673  | 100,246   | 92,411  | 678,408   |   |
| Hardware Stores<br>Hardware stores with limited lines<br>(traditional)  | 15,236  | 72,495  | 88,367  | 75,128   | 47,174  | 43,836  | 342,236   |   |
| Multi-line hardware stores<br>(but not including extensive plumbing<br>heating, and lumber supplies)  | 20,033  | 93,888  | 115,327   | 99,225   | 61,916  | 58,053  | 448,442   |   |
| Convenience Services<br>Barber shops<br>Beauty shops<br>Dry cleaners<br>Laundromats (washing drying only -  | 13,543<br>21,726<br>14,108<br>9,311                   | 53,480<br>71,807<br>47,538<br>32,088                      | 59,910<br>74,888<br>44,933<br>28,455                      | 48,195<br>75,128<br>41,108<br>28,350                     | 27,518<br>53,071<br>27,518<br>18,673                  | 21,326<br>49,760<br>29,619<br>20,141                  | 223,922<br>345,8 <b>8</b> 0<br>204,824<br>137,018           |   |
| no dry cleaning)<br>Shoe repair shops   | 3,104   | 9,508   | 8,987   | 8,505  | 5,896   | 5,924   | 41,924  |   |

# THE WHOLE TRADE AREA H 1980 CORE INTENSIVE

(continued)

| R  | etail Categories                           |                  |                     |                     |                     |                      |  |  |  |  |
|----|--|------------------|---------------------|---------------------|---------------------|----------------------|--|--|--|--|
| -  |  | Under<br>\$3,000 | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999 | \$9,000<br>\$11,999 | \$12,000<br>\$14,999 |  |  |  |  |
| P  | rimary Shoppers Goods                      |                  |                     |                     |                     |                      |  |  |  |  |
|    | General Merchandise Stores                 | 107 600          | 070 000             |                     |                     |                      |  |  |  |  |
|    | Full-line traditional department stores    | 18/,630          | 872,322             | 1,075,385           | 1,017,765           | 668,304              |  |  |  |  |
|    | Limited-line traditional department        | 136,278          | 633,443             | /80,328             | /38,518             | 486,486              |  |  |  |  |
|    | Stores emphazising sort goods              | 100 576          | 040 004             |                     | 072 022             | C17 017              |  |  |  |  |
|    | I imited line diacount department stores   | 120,570          | 640,234             | ±,020,200           | 75,823              | 407 207              |  |  |  |  |
|    | Full-ling traditional variaty stores       | 20 244           | 126 672             | 801,290             | /59,/80             | 49/,29/              |  |  |  |  |
|    | limited annarel                            | 27,344           | 130,072             | 1/2,241             | 128,760             | 103,194              |  |  |  |  |
|    | Super variety stores with expanded apparel | 36.397           | 169,948             | 209.685             | 198-450             | 129.730              |  |  |  |  |
|    | Variety stores, limited price and limited  | 21,726           | 101.018             | 124,313             | 117.653             | 77,641               |  |  |  |  |
|    | lines                                      |                  | 2027020             | 1217010             | 11,7000             | ///011               |  |  |  |  |
| 6  |  |                  |                     |                     |                     |                      |  |  |  |  |
| ÷. | Major Apparel Stores                       | 10 007           | 74 070              | 04.050              |                     |                      |  |  |  |  |
| н  | Men's clothing and furnishings stores      | 12,69/           | 74,872              | 94,358              | 89 <b>,3</b> 03⊧    | 58,968               |  |  |  |  |
| A  | Women's clothing and furnishings stores    | 41,758           | 152,122             | 170,744             | 172,935             | 119,902              |  |  |  |  |
|    | Children's and infants' clothing stores    | 3,386            | 13,073              | 13,480              | 14,175              | 10,811               |  |  |  |  |
|    | Family clothing stores                     | 13,543           | /3,684              | 97,354              | 86,468              | 51,106               |  |  |  |  |
|    | Women's snoe stores                        | 16,083           | 62,988              | 77,883              | 73,710              | 49,140               |  |  |  |  |
|    | Men's and boys' snoe stores                | 8,465            | 98,726              | 62,906              | 58,118              | 38,329               |  |  |  |  |
|    | Family shoe stores                         | 9,875            | 46,350              | 56,915              | 53,865              | 35,381               |  |  |  |  |
|    | Other Specialty Stores                     |                  |                     |                     |                     |                      |  |  |  |  |
|    | Book and stationery stores                 | 4,797            | 19,015              | 25,462              | 22,680              | 14,742               |  |  |  |  |
|    | Camera and photographic supply stores      | 2,539            | 9,508               | 11,982              | 11,340              | 7,862                |  |  |  |  |
|    | Cigarostores and stands                    | 1,693            | 8,319               | 8,987               | 8,505               | 5,897                |  |  |  |  |
|    | Gift, novelty and souvenir shops           | 2,822            | 10,696              | 13,480              | 12,758              | 8,845                |  |  |  |  |
|    | Hosiery and lingerie shops                 | 2,822            | 15,450              | 19,471              | 18,428              | 10,811               |  |  |  |  |
|    | Jewelry shops                              | 10,722           | 42,784              | 52,421              | 49,613              | 32,432               |  |  |  |  |
|    | Luggage and leather goods stores           | 564              | 2,377               | 2,996               | 2,834               | 1,966                |  |  |  |  |

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### Total

\$15,000 and over

| 646,874 | 4,468,280 |
|---------|-----------|
| 469,161 | 3,244,214 |
| 623,179 | 4,281,608 |
| 481,009 | 3,329,128 |
| 100,704 | 700,915   |
| 125,584 | 869,794   |
| 74,639  | 516,990   |
| 63,977  | 394,175   |
| 125,584 | 783,045   |
| 10,663  | 655,907   |
| 40,282  | 362,437   |
| 42,651  | 322,455   |
| 41,466  | 258,010   |
| 34,358  | 236,744   |
| 75,402  | 102,098   |
| 8,293   | 51,524    |
| 4,739   | 38,140    |
| 8,293   | 56,894    |
| 8,293   | 75,275    |
| 28,434  | 216,406   |
| 2,370   | 13,100    |

# THE WHOLE TRADE AREA - 1980 CORE DECLINE

# (continued)

| Retail Categories                                   | • • • • • • • • • | Total               | Total              |                     |                       |                     |                    |  |
|---|-------------------|---------------------|--------------------|---------------------|-----------------------|---------------------|--------------------|--|
|   | Under<br>\$3,000  | \$3,000-<br>\$5,999 | \$6,000<br>\$8,999 | \$9,000<br>\$11,999 | \$12,000-<br>\$13,999 | \$15,000<br>and ove | r                  |  |
| Other Specialty Stores (continued)                  |                   |                     | 4 400              |                     |                       |                     | 10.100             |  |
| Millinery snops                                     | 564               | 3565                | 4,493              | 4,253               | 2,948                 | 2,370               | 18,193             |  |
| Music stores  | 4,797             | 19,015              | 25,462             | 22,680              | 14,742                | 15,402              | 10 4,098           |  |
| Sporting goods stores                               | 4,514             | 17,827              | 23,964             | 21,263              | 13,759                | 14,217              | 95,544             |  |
| Florist shops                                       | 4 <b>,</b> 797    | 21,392              | 25,462             | 24,098              | 16,708                | 20,141              | 112,598            |  |
| Optical goods stores                                | 3,668             | 14,261              | 19,471             | 17,010              | 11,794                | 11,848              | 78,052             |  |
| Toy and hobby stores                                | 1,693             | 7,136               | 8,987              | 8,505               | 5 <b>,</b> 897        | 5,924               | -38,142            |  |
| Secondary Shoppers Goods                            |                   |                     |                    |                     |                       |                     |                    |  |
| Furniture and household furnishings stores          | 28,497            | 168,760             | 196,205            | 177,188             | 1065142               | 86,487              | 763,279            |  |
| Household appliances, television and radio          | 28,779            | 143,802             | 170,744            | 123,323             | 63,882                | 61,607              | 592,137            |  |
| stores  |                   | ·                   | •                  | ·                   | ·                     | ·                   |                    |  |
| Floor coverings stores                              | 6,489             | 24,957              | 32,951             | 29,768              | 20,639                | 20,141              | 134,945            |  |
| Passenger car dealers                               | 292,590           | 1,224,104           | 1,437,840          | 1,217,633           | 708,599               | 508,258             | 5,389,024          |  |
| Tire, battery and accessory stores                  | 15,800            | 66,553              | 76,385             | 65,705              | 38,329                | 27,249              | 289,521            |  |
| Paint, glass and wallpaper stores                   | 5,361             | 24,957              | 31,453             | 26,933              | 16,708                | 15,402              | 120,814            |  |
| Other Goods Services                                |                   |                     |                    |                     |                       |                     |                    |  |
| Gasoline service stations, with limited accessories | 136,278           | 570 <b>,</b> 456    | 659,010            | 528,728             | 296,806               | 182,452             | 2,373,730          |  |
| Eating and drinking places                          | 112,860           | 380,304             | 432,850            | 426,668             | 285,995               | 285,825             | 1,924 <b>,5</b> 02 |  |

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#### RETAIL CATEGORY EXPENDITURES BY INCOME The Whole Trade Area - 1980 Trends Extension

Retail Categories Under \$3,000-\$9,000-\$12,000-\$6,000-\$3,000 \$5,999 \$8,999 \$11,999 \$14,999 Convenience Goods Drug stores 43,512 160,543 146,131 124,450 68,923 Pharmaceutical drug stores 79,674 319,737 268,692 217,788 126,530 Drug stores with traditional lines 204,711 Self-service, multi-line drug stores 129,948 478,931 432,108 355,572 (excluding liquor Supermarkets and Food Stores 2,100,549 1,990,837 1,588,222 908,342 Supermarkets with limited nonfoods 630,630 756,756 2,389,947 1,089,393 Supermarkets with expanded nonfoods 2,520,119 1,906,755 Discount supermarkets with expanded 782,040 2,005,112 2,470,084 1,973,425 1,126,427 nonfoods Specialty Food Stores 105,190 57,607 Delicatessens 39,690 132,212 125,704 Meat Markets 34,692 116,023 109,991 87,411 51,435 9,444 9,428 8,889 5,144 Fish and seafood markets 2,940 10,287 24,284 25,141 19,260 Fruit stores, vegetable markets 7,350 7,201 14,816 5,586 18,887 17,284 Candy, nut, confectionery stores 36,140 29,631 16,459 11,466 37,775 Bakeries 174,414 158,526 104,927 29,988 157,845 Liquor Stores Hardware Stores 82,295 92,707 78,522 49,378 Hardware stores with limited lines 15,876 (traditional) 120,990 103,709 64,808 20,874 106,579 Nulti-line hardware stores (but not including extensive plumbing, heating, and lumber supplies) Convenience Services 50,373 28,804 14,112 60,710 62,852 Barber shops 78,522 55,550 80,946 78,565 Beauty shops 22,638 14,700 53,969 47,139 42,965 28,804 Dry cleaners 19,545 31,426 29,631 9,702 36,426 Laundromats (washing, drying only- no dry cleaning) 6,172 9,428 8,889 3,234 10,793 Shoe repair shops

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|                       | Total                  |  |
|-----------------------|------------------------|--|
| \$15,000-<br>and over |                        |  |
|                       |                        |  |
| 52,406<br>96,077      | 595,965<br>1,108,498   |  |
| 133,909               | 1,131,239              |  |
| 696,245<br>835,993    | 7,914,825<br>9,498,963 |  |
| 864,691               | 9:,821,779             |  |
| 43,671                | 504,074                |  |
| 38,680<br>3,743       | 438,232<br>39,588      |  |
| 8,734<br>6,239        | 95,056<br>70,013       |  |
| 12,477                | 143,948                |  |
| 97,325                | 723,025                |  |
| 46,167                | 3 <b>#4,</b> 945       |  |
| 61,140                | 478,100                |  |
|                       |                        |  |
| 22,460                | 239,311                |  |
| 52,406 I<br>31,194    | 368,627<br>218,766     |  |

| Po | de : | ລໄ |  |
|----|------|----|--|

| 21,218 | 147,948 |
|--------|---------|
| 6,239  | 445755  |

# The Whole Trade Area-1980 Trends Extended (continued)

# <u>Retail Categories</u>

|          |   | Under<br>\$3,000 | \$3,000_<br><u>\$5,999</u> | \$6,000-<br><u>\$8,999</u> | \$9,000-<br><u>\$11,999</u> | \$12,000-<br><u>\$14,999</u> |
|----------|---|------------------|----------------------------|----------------------------|-----------------------------|------------------------------|
| <u>P</u> | rimary Shoppers Goods   |                  |                            |                            |                             |                              |
|          | General Merchandise Stores  |                  |                            |                            |                             |                              |
|          | Full-line traditional department stores                           | \$ 195,510       | 990,239                    | 1,128,193                  | 1,063,753                   | 699,516                      |
|          | Limited-line traditional department stores emphasizing soft goods | 142,002          | 719,070                    | 818,647                    | 771,888                     | 509,207                      |
|          | Full-line discount department stores                              | 188,160          | 953,814                    | 1,076,341                  | 1,017,825                   | 667,626                      |
|          | Limited-line discount department stores                           | ; 145,530        | 737,958                    | 840,646                    | 794,111                     | 520,532                      |
|          | Full-line traditional variety stores<br>with limited apparel      | 30,576           | 155,147                    | 180,700                    | 165,934                     | 108,014                      |
|          | Super variety stores with expanded                                | 37,926           | 192,921                    | 219,982                    | 207,417                     | 135,788                      |
|          | Variety stores, limited price and<br>limited lines                | 22,638           | 114,674                    | 130,418                    | 122,969                     | 81,267                       |
| 4        | Major Apparel Stores  |                  |                            |                            |                             |                              |
| і<br>ц   | Men's clothing and furnishings stores                             | 13,230           | 84,993                     | 98,992                     | 93,338                      | 61,722                       |
| 4        | Women's clothing and furnishings stores                           | 43,512           | 172,685                    | 179,128                    | 180,749                     | 125,501                      |
|          | Children's and infants' clothing                                  | 3,528            | 14,840                     | 14,142                     | 14,816                      | 11,316                       |
|          | Stores<br>Family clothing stores                                  | 14 112           | 83 664                     | 102,135                    | 90,375                      | 53,492                       |
|          | Women's shoe stores   | 16,758           | 71,502                     | 81,708                     | 77.794                      | 51.435                       |
|          | Mens' and boys' shoe stores                                       | 8,820            | 55.313                     | 65,995                     | 60,794                      | 40,435                       |
|          | Family shoe stores  | 10,290           | 52,615                     | 59,709                     | 56,299                      | 37,033                       |
|          | Other Specialty Stores  |                  |                            |                            |                             |                              |
|          | Book and stationery stores  | 4,998            | 21,586                     | 26,712                     | 23,705                      | 15,431                       |
|          | Camera and photographic supply stores                             | 2,646            | 10,793                     | 12,570                     | 11,852                      | 8,230                        |
|          | Cift novelty and scands   | 1,/04            | 9,444                      | 9,428                      | 8,889                       | 0,1/2                        |
|          | Hosiony and lingonio shops  | 2,940            | 12,142                     | 14,142                     | 10,004                      | 9,200                        |
|          | Jewelry stores  | 11,172           | 48.568                     | 54,996                     | 51,854                      | 33,947                       |
|          | Luggage and leather goods stores                                  | 588              | 2,698                      | 3,143                      | 2,963                       | 2,057                        |
|          |   |                  |                            |                            |                             |                              |

| 681,272<br>494,109  | 4,758,483<br>3,454,923   |
|---|--|
| 656,317<br>506,587<br>106,059                                 | 4,560,083<br>3,545,354<br>746,430                                    |
| 132,262   | 926,296  |
| 78,608  | 550,574  |
|   |  |
| 67,379<br>132,262   | 419,654<br>833,837   |
| 11,230  | 69,872   |
| 42,424  | 386,182  |
| 44,915<br>43,671<br>36,185                                    | 343,363<br>274,662<br>252,131  |
| 16,221<br>8,734<br>4,991<br>8,734<br>8,734<br>29,946<br>2,996 | 108,653<br>54,825<br>40,688<br>60,550<br>80,215<br>230,483<br>14,445 |

Total

\$15,000and over

# The Whole Trade Area - 1980 Trends Extended (continued)

Retail Categories

| ·  | Under<br>\$3,000 | \$3,000-<br>\$5,999 | \$6,000-<br>\$8,999 | \$9,000-<br>\$11,999 | \$12,000-<br>\$14,999 |
|--|------------------|---------------------|---------------------|----------------------|-----------------------|
| Other Specialty Stores (continued)                     |                  |                     |                     |                      |                       |
| Millinery shops  | 588              | 4,047               | 4,714               | 4,447                | 3,086                 |
| Music stores   | 4,998            | 21,586              | 26,712              | 23,705               | 15,431                |
| Sporting goods stores                                  | 4,704            | 20,237              | 25,141              | 22,223               | 14,402                |
| Florist shops  | 5,292            | 22,935              | 28,283              | 25,186               | 17,488                |
| Optical goods stores                                   | 3,822            | 16,189              | 20,427              | 17,779               | 12,344                |
| Toy and hobby stores                                   | 1,764            | 8,099               | 9,428               | 8,889                | 6,172                 |
| Secondary Shoppers Goods                               |                  |                     |                     |                      |                       |
| Furniture and household furnishings stores             | 29,694           | 191,572             | 205,840             | 185,194              | 111,100               |
| Household appliances, television and radio stores      | 29,988           | 163,241             | 179,128             | 128,895              | 66,866                |
| Floor coverings stores                                 | 6,762            | 28,331              | 34,569              | 31.113               | 21,603                |
| 🛱 Passenger car dealers                                | 304,878          | 1,389,573           | 1,508,448           | 1,272,651            | 741,693               |
| i Tire, battery and accessory stores                   | 16,464           | 75,550              | 80,136              | 68,151               | 40,119                |
| <sup>H</sup> Paint, glass and wallpaper stores<br>≪    | 5,586            | 28,331              | 32,997              | 28,149               | 17,488                |
| Other Goods and Services                               |                  |                     |                     |                      |                       |
| Gasoline service stations, with<br>limited accessories | 142,002          | 647,568             | 691,372             | 552,618              | 310,667               |
| Eating and drinking places                             | 117,600          | 431,712             | 454,106             | 445,947              | 299,352               |

| \$15,000<br>and over                                   |   |
|--|---|
| 2,496<br>16,221<br>14,973<br>17,469<br>12,478<br>6,239 | 19,378<br>108,653<br>101,680<br>116,653<br>83,039<br>40,591 |
| 91,086   | 633,001   |
| 64,883   | 633,001   |
| 21,212<br>535,285<br>28,698<br>16,221                  | 143,590<br>5,752,528<br>309,118<br>128,772                  |
| 192,154  | 2,536,381   |
| 300,708  | 2,049,425   |

Total

# RETAIL CATEGORY EXPENDITURES BY INCOME Whole Trade Area - 1980 Core Intensive

| Retail Categories  |                   |  |   |                     |                      |                     | Total               |
|--|-------------------|--|---|---------------------|----------------------|---------------------|---------------------|
|  | Under<br>\$ 3,000 | \$3,000<br>\$5,999                     | \$6,000<br>\$8,999                            | \$9,000<br>\$11,999 | \$12,000<br>\$14,999 | \$15,000<br>and ove | )<br>er             |
| Convenience Goods  |                   | ······································ | · <u>····································</u> |                     |                      |                     |                     |
| Drug Stores  |                   |  |   |                     |                      |                     |                     |
| Pharmaceutical drug stores                                 | 45,976            | 172,500                                | 158,263                                       | 135,122             | 74,983               | 57,036              | 643,880             |
| Drug stores with traditional lines                         | 84,186            | 343,650                                | 290,999                                       | 236,464             | 137,655              | 104,566             | 1,19/,5 <i>2</i> 02 |
| Self-service, multi-line drug stores<br>(excluding liquor) | 137,307           | 514,750                                | 467,981                                       | 386,064             | 222,111              | 109,750             | T'986'202           |
| Supermarkets and Food Stores                               |                   |  |   |                     |                      |                     |                     |
| Supermarkets with Limited nonfoods                         | 666,344           | 2,257,650                              | 2,156,117                                     | 1,724,419           | 988,209              | 757,764             | 8,550,503           |
| Supermarkets with expanded nonfoods                        | 799,613           | 2,708,600                              | 2,588,362                                     | 2,070,268           | 1,185,180            | 909,860             | 10,261,883          |
| nonfoods   | 820,329           | 2,199,950                              | 2,675,151                                     | 2,142,655           | 1,125,409            | 941,094             | 10,010,040          |
| Specialty Food Stores                                      |                   |  |   |                     |                      |                     |                     |
| Delicatessens  | 41,938            | 142,100                                | 136,140                                       | 114,211             | 62,672               | 47,530              | 544,591             |
| H Meat markets   | 36,657            | 124,/00                                | 119,123                                       | 94,907              | 55,958               | 42,098              | 4/3,443             |
| Fish and sealood markets                                   | 3,107             | 10,150                                 | 10,211  | 9,052<br>20 912     | 10 191               | 4,074               | 42,790              |
| Candy, nut, confectionery stores                           | 5,902             | 20,100                                 | 18,719  | 16.086              | 7.834                | 6,790               | 75,631              |
| Bakeries   | 12,115            | 40,600                                 | 39,140  | 32,172              | 17,906               | 13,580              | 155,513             |
| Liquor Stores  | 31,686            | 169 <b>,</b> 650                       | 188,894                                       | 172,120             | 114,153              | 105,924             | 782,427             |
| Hardware Stores  |                   |  |   |                     |                      |                     |                     |
| Hardware stores with limited lines (traditional)           | 16,775            | 88,450                                 | 100,403                                       | 85,256              | 53,719               | 50,246              | 394,849             |
| Multi-line hardware stores                                 | 22,056            | 114,550                                | 131,035                                       | 112,602             | 70 <b>,</b> 506      | 66,542              | 517 <b>,</b> 291    |
| (but not including extensive                               |                   |  |   |                     |                      |                     |                     |
| plumbing, heating, and lumber supplies)                    |                   |  |   |                     |                      |                     |                     |
| Convenience Services                                       |                   |  |   |                     |                      | ,                   |                     |
| Barber shops   | 14,911            | 65 <b>,</b> 250                        | 68,070  | 54 <b>,</b> 692     | 31,336               | 24,444              | 258,703             |
| Beauty shops   | 23,920            | 87,000                                 | 85,088  | 85,256              | 60,434               | 57,036              | 398,734             |
| Dry cleaners   | 15,533            | 58,000                                 | 51,053  | 46,649              | 31,336               | 33,950              | 2.50, 500           |
| no dry cleaning)   | 10,251            | 39,150                                 | 34,035  | 32,172              | 21,264               | 23,086              | T2A'A28             |
| Shoe repair shops  | 3,417             | 11,600                                 | 10,211  | 9,652               | 6,715                | ∂ <b>6,790</b>      | 48,385              |

### THE WHOLE TRADE AREA - 1980 CORE INTENSIVE

### (continued)

| etail Categories   |   |   |  | ·  | ·   |  |
|--|---|---|--|--|---|--|
|  | Under<br>\$3,000  | \$3,000-<br>\$5,999   | \$6,000<br>\$8,999   | \$9,000<br>\$11,999  | \$12,000-<br>\$14,999                                 | \$15<br>and  |
|  | ···· · · · · · · · · · · · · · · · · ·  |   |  | · · · · · · · · · · · · · · · · · · ·  | ······································                | ··· · · · · · · · · ·  |
| · · · · · · · · · · · · · · · · · · ·                                |   |   |  |  |   |  |
| cimary Shoppers Goods<br>General Merchandise Stores                  |   | - <sup>-</sup>  |  | · · ·  |   |  |
| 'Full-line traditional department stores                             | 206,582   | 1,064,300   | 1,221,857  | 1,154,975  | 761,022   | 741,   |
| Limited-line traditional department<br>stores emphasizing soft goods | 150,044   | 772,850   | 886,612  | 838,081  | 553 <b>,979</b>                                       | 537,   |
| Full-line discount department stores                                 | 198,816   | 1,025,150   | 1,165,699  | 1,105,108  | 726,328   | 714,   |
| Limited-line discount department stores                              | 153,772   | 793,150   | 910,436  | 862,210  | 566,290   | 551,   |
| Full-line traditional variety stores<br>limited apparel              | 32,308  | 166,750   | 195,701  | 180,163  | 117,511   | 115,   |
| Super variety stores with expanded apparel                           | 40,074  | 207,350   | 238,245  | 225,204  | 147,728   | 143,   |
| Variety stores, limited price and limited lines                      | 23,920  | 123,250   | 141,245  | 133,514  | 88,413  | <b>385</b> ,   |
| Major Apperal Stores   |   |   |  |  |   |  |
| Men's clothing and furnishings stores                                | 13,979  | 91,350  | 107,210  | 101,342  | 67,149  | 73,  |
| Women's clothing and furnishings stores                              | 45,976  | 185,600   | 194,000  | 196,249  | 136,536   | 143,   |
| Children's and infants' clothing stores                              | 3,728   | 15,950  | 15,316   | 16,086   | 12,311  | 12,  |
| Family clothing stores   | 14,911  | 89,900  | 110,614  | 98,125   | 58,196  | 46,  |
| Women's shoe stores  | 17,707  | 76,850  | 88,491   | 83,647   | 55,958  | 48,  |
| Men's and boys' shoe stores  | 9,320   | 59,450  | 71,474   | 65,953   | 43,647  | 47,  |
| Family shoe stores   | 10,873  | 56,550  | 64,667   | 61,127   | 40,289  | 39,  |
| Other Specialty Stores   |   |   |  |  |   |  |
| Book and stationery stores   | 5,281   | 23,200  | 28,930   | 25,738   | 16,787  | 17,  |
| Camera and photographic supply stores                                | 2,796   | 11,600  | 13,614   | 12,868   | 8,953   | 9,   |
| Cigar stores and stands  | 1,864   | 10,150  | 10,211   | 9,652  | 6,715   | 5,   |
| Gift, novelty and souvenir shops                                     | 3,107   | 13,050  | 15,316   | 14,477   | 10,072  | 9,   |
| Hosiery and lingerie shops   | 3,107   | 18,850  | 22,123   | 20,912   | 12,311  | 9,   |
| Jewelry stores   | 11,805  | 52 <b>,</b> 200   | 59,561   | 56 <b>,</b> 301  | 36,932  | 32,  |
| Luggage and leather goods stores                                     | 621   | 2,900   | 3,403  | 3,217  | 2,238   | 2,   |
|  | <ul> <li>timary Shoppers Goods</li> <li>General Merchandise Stores</li> <li>Full-line traditional department stores</li> <li>Limited-line traditional department stores</li> <li>Full-line discount department stores</li> <li>Full-line discount department stores</li> <li>Full-line traditional variety stores</li> <li>limited apparel</li> <li>Super variety stores with expanded apparel</li> <li>Variety stores, limited price and limited lines</li> <li>Major Apperal Stores</li> <li>Men's clothing and furnishings stores</li> <li>Women's clothing and furnishings stores</li> <li>Children's and infants' clothing stores</li> <li>Family clothing stores</li> <li>Men's and boys' shoe stores</li> <li>Family shoe stores</li> <li>Stores</li> <li>Other Specialty Stores</li> <li>Book and stationery stores</li> <li>Cigar stores and stands</li> <li>Gift, novelty and souvenir shops</li> <li>Hosiery and lingerie shops</li> <li>Jewelry stores</li> <li>Luggage and leather goods stores</li> </ul> | timary Shoppers Goods       Under         General Merchandise Stores       206,582         Full-line traditional department stores       206,582         Limited-line traditional department       150,044         stores emphasizing soft goods       198,816         Limited-line discount department stores       198,816         Limited-line traditional variety stores       153,772         Full-line traditional variety stores       32,308         limited apparel       32,308         Super variety stores with expanded       40,074         apparel       23,920         Variety stores, limited price and limited       23,920         lines       13,979         Major Apperal Stores       13,979         Men's clothing and furnishings stores       45,976         Children's and infants' clothing stores       1,728         Family clothing stores       9,320         Family shoe stores       10,873         Other Specialty Stores       5,281         Camera and photographic supply stores       2,796         Cigar stores and stands       1,864         Gift, novelty and souvenir shops       3,107         Jewelry stores       11,805         Luggage and leather goods stores       621 <td>the set of the s</td> <td>thil Categories<br/>Under: <math>\\$3,000 + \\$6,000 + \\$8,999 + \\$8,999 + \\$8,999 + \\$8,999 + \\$8,999 + \\$8,999 + \\$8,000 + \\$5,999 + \\$8,999 + \\$8,000 + 1,000 + 1,221,857 + 1,000 + 1,000 + 1,000 + 1,221,857 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,</math></td> <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td>that       Under       \$3,000       \$6,000       \$9,000       \$12,000         \$3,000       \$5,999       \$8,999       \$11,999       \$14,999         cimary Shoppers Goods       General Merchandise Stores       \$1,064,300       1,221,857       1,154,975       761,022         Limited-line traditional department stores       150,044       772,850       886,612       838,081       553,979         stores emphasizing soft goods       198,816       1,025,150       1,165,699       1,105,108       726,328         Limited-line discount department stores       153,772       793,150       190,436       862,210       566,230         Full-line traditional variety stores       132,700       123,250       141,245       133,514       88,413         Lineted apparel       23,920       123,250       141,245       133,514       88,413         Variety stores, limited price and limited       23,920       123,250       141,245       133,514       88,413         lines       11.600       196,249       136,536       166,535       14,911       89,900       110,614       96,225       58,196         Warlety stores       11.491       13,728       159,590       15,316       16,066       12,311         Pamily clot</td> | the set of the s | thil Categories<br>Under: $\$3,000 + \$6,000 + \$8,999 + \$8,999 + \$8,999 + \$8,999 + \$8,999 + \$8,999 + \$8,000 + \$5,999 + \$8,999 + \$8,000 + 1,000 + 1,221,857 + 1,000 + 1,000 + 1,000 + 1,221,857 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,0000 + 1,$ | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | that       Under       \$3,000       \$6,000       \$9,000       \$12,000         \$3,000       \$5,999       \$8,999       \$11,999       \$14,999         cimary Shoppers Goods       General Merchandise Stores       \$1,064,300       1,221,857       1,154,975       761,022         Limited-line traditional department stores       150,044       772,850       886,612       838,081       553,979         stores emphasizing soft goods       198,816       1,025,150       1,165,699       1,105,108       726,328         Limited-line discount department stores       153,772       793,150       190,436       862,210       566,230         Full-line traditional variety stores       132,700       123,250       141,245       133,514       88,413         Lineted apparel       23,920       123,250       141,245       133,514       88,413         Variety stores, limited price and limited       23,920       123,250       141,245       133,514       88,413         lines       11.600       196,249       136,536       166,535       14,911       89,900       110,614       96,225       58,196         Warlety stores       11.491       13,728       159,590       15,316       16,066       12,311         Pamily clot |

Total

| 5. | ,( | ) | 0 | ( | 5  |   |   |           | -       | - |   |   | -   |   |       |      | -   |     |   |         |         | <br>  | - |      |     |  |
|----|----|---|---|---|----|---|---|-----------|---------|---|---|---|-----|---|-------|------|-----|-----|---|---------|---------|-------|---|------|-----|--|
| 1  |    | Ċ | V | e | 2] | r |   |           |         |   |   |   |     |   |       |      |     |     |   |         |         |       |   |      |     |  |
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|    |    |   |   |   |    | 4 |   |           |         |   |   | , |     |   |       |      |     |     |   |         |         | ,     |   |      |     |  |

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|-------|----------------------|
| ,468  | 5,150,204            |
| ,768  | 3,739,334            |
| 509   | 4 025 400            |
| ,508  | 4,935,409            |
| , 348 | 3,83,7200<br>007,962 |
| ,430  | 007,003              |
| ,948  | 1,002,549            |
|       |                      |
| ,554  | 595 <b>,</b> 896     |
|       |                      |
|       |                      |
| ,332  | 454,362              |
| ,948  | 902,309              |
| 222   | 75,613               |
| .172  | 417,918              |
| ,888  | 371 <b>,</b> 541     |
| ,530  | 297,374              |
| ,382  | 272,888              |
|       |                      |
| ,654  | 117 <b>,</b> 590     |
| 506   | 59 <b>,</b> 337      |
| 432   | 44,024               |
| 506   | 65,528               |
| 506   | 86,809               |
| 592   | 249,391              |
| 716   | 15,095               |

### THE WHOLE TRADE AREA - 1980 CORE INTENSIVE

(continued)

| ÷ :  |  | Under<br>\$3,000                    | \$3,000-<br>\$5,999                     | \$6,000<br>\$8,999                      | \$9,000<br>\$11,999                     | \$12,000-<br>\$14,999                 | \$15,000<br>and ove                   |
|------|--|-------------------------------------|---|---|---|---------------------------------------|---------------------------------------|
|      | Other Specialty Stores (continued)<br>Millinery shops<br>Music stores  | 621<br>5,281                        | 4,350<br>23,200                         | 5,105<br>28,930                         | 4,826<br>25,738                         | 3,357<br>16,787                       | 2,716<br>17,654                       |
|      | Sporting goods stores<br>Florist shops<br>Optical goods stores<br>Toy and hobby stores   | 4,970<br>5,592<br>4,038<br>1,864    | 21,750<br>24,650<br>17,400<br>8,700     | 27,228<br>30,632<br>22,123<br>10,211    | 24,129<br>27,346<br>19,303<br>9,652     | 15,668<br>19,026<br>13,430<br>6,715   | 16,296<br>19,012<br>13,580<br>6,790   |
| 46   | Secondary Shoppers Goods<br>Furniture and household furnishings stores<br>Household appliances, television and<br>radio stores | 31,376<br>31,686                    | 205,900<br>175,450                      | 222,929<br>194,000                      | 201,075<br>139,948                      | 120,868<br>72,745                     | 99,134<br>70,616                      |
| A I- | Floor coverings stores<br>Passenger car dealers<br>Tire, battery and accessory stores<br>Paint, glass and wallpaper stores     | 7,145<br>322,144<br>17,396<br>5,902 | 30,450<br>1,495,500<br>81,200<br>30,450 | 37,439<br>1,655,680<br>86,789<br>35,737 | 33,781<br>1,381,787<br>73,996<br>30,563 | 23,502<br>806,907<br>43,697<br>19,026 | 23,096<br>582,582<br>31,234<br>17,654 |
|      | Other Goods and Services<br>Gasoline service stations, with limited<br>accessories<br>Eating and drinking place                | 150,044<br>124,260                  | 696,000<br>464,000                      | 748,770<br>491,806                      | 600,008<br>484,189                      | 337,983<br>325,673                    | 209,132<br>327,278                    |

Retail Categories

1

Total

over

20,975 117,590 110,041 126,258 89,874 43,932 881,282 684,445 155,413 6,242,600 334,262 139,332

2,741,937 2,2**2**7,206

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PART I: Census of Retail Industry of the Dudley Square Commercial Area

SOURCE: Dun & Bradstreet, Market Indicators, December 1973

CODE:

#### HEADING

SIC NUMBER

Firm Name Adress Year of Acquisition Owner's Name and Status Line of Credit Sales Yearly Income Worth of Business Number of Employees

Key:

" <\$5,000" = \$ 0 - \$4,999 " <10,000" = \$ 5,000 - \$9,999 " <20,000" = \$10,000 - 19,999 " < 35,000" = \$20,000 - 34,999 " < 50,000" = \$35,000 - 49,999 " < 75,000" = \$50,000 - 74,999 " <125,000" = \$75,000 - 124,999 " <500,000" = 125,000 - 499,999

#### SIC NUMBER SIC CLASSIFICATION

### 5231 PAINT, GLASS & WALLPAPER STORES:

B&D Wallpaper Co., Inc. 2164-68 Washington St. 1941 Al Dulman - PR \$500,000 good \$1.6 million dollars \$225,000 Employs twelve (12)

#### 5251 HARDWARE STORES:

W. Bowman Cutter, Inc. 2739 Washington St. 1969 Frederick Lee - PR

? good \$83,400 ? Employs four (4)

#### 5311 DEPARTMENT STORES:

Wrenn's Curiosity Shop 2087 Washington St. 1960 William Wrenn, Owner 5,000 fair \$7,000 \$1000 Employs seven (7)

#### 5331 VARIETY STORES:

#### 5399 MISCELLANEOUS GENERAL MERCHANDISE:

see 5611 Afram see 5651 Eastern

#### 5411 GROCERY STORES:

Blair's Supermarket, Inc. 2214-2224 Washington St. 1969 Alfonzo Clarke, PR ? fair \$ 2 million ? Employs sixty five (65) Brown, Herbert 194 Dudley Street 1962 Herbert Brown, Owner \$\$20,000 good \$140,000 \$11,190 Employs two (2)

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|      | Clinton Provisions, Inc. 2105 Washington St.<br>1945 Arthur Fiedman, PR<br><\$20,000<br>Fair<br>\$450,000<br>\$ 10,300<br>Employs seven (7)<br>Tropical Foods, Inc. 2101 Washington St. |
|------|---|
|      | <pre>110plear roous, inc. 2101 washington be:<br/>1966 Jose Hernandes, PR<br/>?<br/>Fair<br/>\$440,000<br/>\$ 17,500<br/>Employs eight (8)</pre>  |
| 5421 | FREEZER & LOCKER MEAT PROVISIONS:   |
| 5423 | MEAT & FISH:  |
|      | Warren Fish Market 16 Warren St.<br>1960 Ralph Frazer, Owner<br>\$10,000<br>Fair<br>\$50,000<br>\$ 5,000<br>Employs eleven (11)   |
| 5431 | FRUIT STORES & VEGETABLE MARKETS:   |
|      | Bello L. & Sons 2214 Washington St.<br>1935 Anthony Bello, PR<br><\$20,000<br>Good<br>\$500,000<br>\$ 10,000<br>Employs eleven (11)   |
| 5443 | CANDY, NUT & CONFECTIONERY STORES:  |
| 5462 | RETAIL BAKERIES - BAKING & SELLING:   |
| 5463 | RETAIL BAKERIES - SELLING ONLY:   |
| 5499 | MISCELLANEOUS FOOD STORES:  |
| 5511 | MOTOR VEHICLE DEALERS - NEW AND USED:   |
| 5521 | MOTOR VEHICLE DEALERS - USED ONLY:  |
|      | Awtort Motors, Inc. 1149 Harrison Avenue<br>1970 Donald Hoy, Principal<br>?<br>Fair<br>\$40,000<br>?<br>Employs two   |

# APPENDIX II: Roxbury Business Structure

#### Introduction

In this appendix, Part I is a compilation of the retail businesses in Dudley Square.

Part II is a compilation of the non-retail businesses in Dudley Square. Wholesale businesses are included in this compilation.

Attached to this appendix are several notes including a list of missing businesses and a list of competitive stores in the key areas of automobile and grocery wholesale. A map of the competitive commercial centers to Dudley Square commercial area completes Appendix II.

#### 5531 AUTO HOME AND SUPPLY STORES:

Grant's Auto Supply 10-12 Warren Street 1966 William Darren, Jr. PR. <\$35,000 good \$159,000 \$ 31,900 Employs three (3)

#### 5541 GAS & SERVICE STATIONS:

Nesto Ferrer 34 Roxbury Street 1945 Ferrer Nesto, Owner <\$35,000 Good \$140,000 \$ 28,400 Employs three (3)

#### 5611 MENS & BOYS CLOTHING FURNISHINGS STORES:

Afram Products, Corporation 2276 Washington Street 1971 J.C. Ajene PR Store is presently for sale.

Callahan's Men's Shop 155 Dudley Street 1967 Paul Callahan, PR <\$125,000 Fair \$250,000 \$ 3,000 Employs two (2)

Hat Shop 58 Warren Street 1968 M. Goldstein Owner <\$5,000 Fair \$250,000 \$ 3,000 Employs one (1)

Samal, Inc. 2277 Washington Street
1957 Samuel Kaplan, PR
<\$125,000
High
\$195,000
\$ 78,000
Employs six (6)</pre>

5621 5136 Window to Watch 2276 Washington Street 5137 1969 James Ajimi, Owner ? Fair \$110,000 \$ 14,800 Employs two (2) Woody's Mens Store 2313 Washington St. 1942 Samuel Sochen, Owner <\$50,000 High \$96,400 \$37,300 Employs three (3) 5621 WOMEN'S READY TO WEAR. see 5611 Afram Lord's, Inc. 2219 - 2221 Washington St. 1950 F. Horowitz, PR <\$35,000 Good \$180,000 \$ 28,000 Employs three (3) Royce Speciality Shops, Inc. 2225 Washington St. 1967 Daniel Finkle, PR **<**\$20,000 Good \$ 93,400 \$ 10,800 Employs four (4) See Window to Watch WOMEN'S ACCESSORIES & SPECIALITY STORES: (see 5137 Davis Millinery) 5631 H & F Hosiery, Inc. 2275 Washington St. 1962 Mrs. F. Doris, PR ? High \$136,000 ? Employs five (5) 5641 CHILDREN'S AND INFANTS WEAR: 5651 FAMILY CLOTHING STORES:

\_\_\_\_\_

Eastern Bargain Spot, Inc. 2170 Washington St. 1948 Abraham Spiegel, PR <\$35,000

Good \$140,000 \$ 20,000 Employs four (4) L & M Bargain Store 2103 Washington St. 1952 Louis Salzberg, Owner <\$75,000 Good \$140,000 \$ 52,000 Employs three (3) L & S Department Store, Inc. 2275 Washington St. 1950 Saul Oshry, PR <\$500,000 Good \$1.5 million \$194,000 Employs twenty eight (28) Rubin's Department Store 2251 Washington St. 1944 Samuel Borishoff, Owner < \$125,000 Good \$110,000 \$ 80,000 Employs three (3) SHOE STORES Bartons of Roxbury, Inc. 2224 Washington St. 1972 Darrell Johnson, PR ? Fair \$50,000 Employs two (2) 2163 Washington St. Factory Shoe Outlet 1964 Harry Alterman, PR < \$35,000 Good \$80,000 \$21,500 Employs two (2) Norwood Shoe Store, Inc. 2231 Washington St. 1940 Harry Alterman, PR **<**\$125,000 High \$120,000 \$108,000 Employs six (6)

5661

Shep & John, Inc. 2224 Washington St. 1971 John Shepard, Principal ? Fair ? Employs two (2) 5699 MISCELLANEOUS APPAREL AND ACCESSORY STORES: Cho Duk H. Co., Inc. 2173 Washington St. 1970 Duk A Cho, PR ? Good \$80,000 \$ 7,480 Employs four (4) 5712 FURNITURE STORES: (2514) Don Mar Co., Inc. 2326 Washington St. 1964 Marvin Aronson PR **<**\$50,000 Fair \$200,000 \$ 46,000 Employs three (3) Ferdinand Frank, Inc. 2260 Washington St. 1971 Hugh R. Allen, PR <\$500,000 Good \$436,000 \$163,000 Employs fifteen (15) Highland Furniture Co. 2321 Washington St. 1944 Nathan Snyder, Owner <\$75,000 Fair \$130,000 \$ 75,000 Employs five (5) 5713 FLOOR COVERING STORES: Roxbury Bargain Store 2208 Washington St. 1963 C. Garbedian, Owner **<**\$20,000 Good \$50,000 \$18,000 Employs one (1)

5719 MISCELLANEOUS HOME FURNISHINGS STORES:

see 5231 Terminal Hardware

5722 HOUSEHOLD SUPPLIES STORES:

Avenue Plumbing & Heating Supply Co. 23-27 Eustis Street 1972 H. Friedman, PR ? High \$150,000 \$ 16,000 Employs two (2)

5732 RADIO & T.V.:

National Radio & T.V. Co. 2167 Washington St. 1958 H. Cohen, Owner <\$75,000 Good \$125,000 \$ 51,000 Employs four (4)

#### 5773 MUSIC STORES:

I AM Records 4 Guild Row 1972 Dleve Reynolds, Owner ? High \$10,000 ? Employs one (1)

5812 EATING PLACES:

Bag-full-of-Goodies 110-112 Dudley Street 1966 Clarence Jackson, PR ? High \$200,000 ? Employs two (2) Bell Foods, Inc. 2345 Washington St. 1956 Edward R. Levey, PR ? Good \$100,000 ? Employs six (6) Boss Bird, Inc. 2214 Washington St. 1969 Robert Burg, PR **<**\$10,000 Fair \$200,000 \$ 9,140 Employs four (4)

## Calyp-Soul Foods, Inc. 2337 Washington St. 1970 John V. Lewis, PR ? Good \$150,000 ? Employs seven (7) 49 Warren St. Frances Ann, Inc. 1971 A.F. Patterson, PR ? Fair \$50,000 ? Employs three (3) Palcalco Corporation 38 Warren St. 1969 Charles J. Calvey, PR High \$350,000 Employs twenty-two (22) Peking House 56 Warren Street 1970 Song Ping, Owner High \$350,000 Employs two (2) Rosalie & Kathie's Lunch Box 2835 Washington St. 1954 Vasco V. Pires, Owner **\$**\$5,000 Good \$23,400 \$ 3,000 Employs (?) Roxy Diner, Inc. 67 Roxbury St. 1962 Sam Gerstle, PR Fair \$26,000 \$25,000

?

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?

Employs three (3)

Silver Slipper Restaurant 2387 Washington St. 1972 L. Matthews, Owner ? Fair \$15,000 ? Employs three (3)

McKerr's, Inc. 2360 Washington St. 1965 Joseph I. Kelley, PR <\$35,000 Good \$100,000 \$22,200 Employs six (6) New Clock Cafe, Inc. 40 Warren St. 1948 Nora D. Greeley, PR ? Fair ? Fair ? Employs three (3) Roxbury Blue Moon Restaurant 2028 Washington St.

Roxbury Brue Moon Restaurant 2020 Washington be: 1937 George DiCole ? Good \$1,250 ? Employs (?)

Roxbury Tavern, Inc. 304 Warren St. 1949 Joseph Abrew, PR <\$10,000 Good \$50,000 \$ 5,000 Employs one (1)

Steve's Tavern, Inc. 304 Warren St. 1949 Stephen Bandis , PR <\$10,000 Good \$50,000 \$ 3,000 Employs two (2)

#### 5912 DRUG STORES & PROPRIETARY STORES:

Best Health & Beauty Aids 2275 Washington St. 1973 Roger T. Gariun, Owner <\$5,000 Fair \$150,000 \$ 3,000 Employs one (1) Dudley Drug, Inc. 2220 Washington St. 1959 Leo S. Sheldon, PR <\$20,000 Good

\$150,000 \$ 18,000 Employs four (4)

5813

DRINKING PLACES:

Kornfield A. Inc. 2121 Washington St. 1939 Henry Shapiro, PR <\$125,000 Good \$300,000 \$ 92,000 Employs eight (8)

5921 LIQUOR STORES:

Dudley Liquors Co., Inc. 150 Dudley St. 1936 Lee Golden PR ? Good \$50,000 ? Employs fourteen (14)

Golden Wine, Inc. 16 Roxbury St. 1964 Marinburg Freema, PR ? Good \$200,000 ?

Employs two (2)

- 5931 USED MERCHANDISE STORES:
- 5941 SPORTING GOODS STORES & BICYCLE STORES: (see 5611 THC)
- 5942 BOOK STORES:
- 5943 STATIONERY STORES:

Employs five (5)

5944 JEWELRY STORES:

Venus Cosmetics Store, Inc. 2283 Washington St. 1964 Saul Cooper, PR < \$20,000 Good \$300,000 \$15,000 Employs five (5) Calvey Jewelers 34 Warren St. 1948 C.J. Calvey, Owner < \$50,000 Good \$70,000 \$35,000

5945 HOBBY, TOY & GAME SHOPS: (see 5651 Eastern)

#### 5946 CAMERA & PHOTOGRAPHY SUPPLY STORES:

#### 5947 GIFT, NOVELTY & SOUVENIR SHOPS: (see 5812 Bagg-Full-of-Goodies)

(J099-3999) A Nubian Notion, Inc. 67 Humboldt Avenue 1968 M Abdal Khallar, PR <\$35,000 Fair \$108,000 \$ 20,900 Employs three (3)

5948 LUGGAGE & LEATHER GOODS STORES:

#### 5949 SEWING, NEEDLEWORK & PEICE GOODS STORES:

5992 FLORISTS:
## 5993 CIGAR STORES & STANDS:

## 5999 MISCELLANEOUS RETAIL STORES NOT ELSEWHERE CLASSIFIED:

Ruby, Norman I. 50½ Warren St. 1952 Dr. Norman I. Ruby, Owner \$\$35,000 Good \$100,000 \$ 20,000 Employs one (1)

see 5944 Venus Cosmetic Store

PART II: Census of Non-Retail Industries of the Dudley Square Commercial

Area

based on Dudn & Bradstreet, December 1974

CODE:

#### HEADING

SIC NUMBER

Firm Name Address Year of Acquisition Owner's Name & Status Line of Credit Sales Yearly Income Worth of Business Number of Employees

KEY:

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" <\$5,000"= \$ 0 - \$4,999 " <10,000"= \$ 5,000 - \$9,999 " <20,000"= \$10,000 - 19,000 " <35,000"= \$20,000 - 34,999 " <50,000"= \$35,000 - 49,999 " <75,000"= \$50,000 - 74,999 " <125,000"= \$75,000 - 124,999 " <500,000"= 125,000 - 499,999

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|--|---|---|---|---|---|---|
|--|---|---|---|---|---|---|

CONSTRUCTION - SPECIAL TRADE CONTRACTORS: 17

1711 Plumbing, Heating (except electric) and Air Conditioning:

Barrett Assoc., Inc. 25 Ruggles St. 1953 T.F. Barrett, PR ∠\$75,000 Fair \$700,000 \$ 52,000 Employs eight (8)

- 2 20 FOOD & KINDRED PRODUCTS 205 BAKERY PRODUCTS:
- 2051 Bread & Other Bakery Products Except Cookies & Crackers:

Berwick Cake Co., The 24 Palmer St. 1875 W.F. Goodale, Jr. PR Good \$500,000 Employs eighteen (18)

## 23 APPAREL AND OTHER FINISHED PRODUCTS MADE FROM FABRICS & SIMILAR:

2311 Men's Youth's and Boy's Shirts (except work shirts) & Nightwear, Maternity:

Best Coat Co., Inc. 9 Williams St. 1946 Summer Press PR <1 million High \$2,500,000 \$ 770,000 Employs one hundred and seventy-three (173)

## 2087 FLAVORING EXTRACTS AND FLAVORING SYRUPS, NOT ELSEWHERE CLASSIFIES:

Eastern Sprcialty Products, Inc. 83 Zeigler St. 1938 Donald Alcaide, PR \$\$500,000 High \$1.75 million \$159,000 Employs one hundred and twenty-five (125)

## 23 APPAREL & OTHER FINISHED PRODUCTS MADE FROM FABRICS & SIMILAR MATERIALS:

2335 WOMEN'S MISSES' AND JUNIOR'S DRESSES:

MacKenzie Sportswear, Inc. 2285 Washington St. 1950 Benjamin Alter, PR High \$200,000

2391 CURTAINS & DRAPERIES: Amaechi Manufacturing Corporation 2307 Washington St. 1971 Ekughu J. Amaechi, PR ? Good \$400,000 \$400,000 Employs twenty-five (25) Auburn Curtain Co., Inc. 8-10 Williams St. 1933 Abraham Shaffer, PR 41 million High \$3 million \$1,090,000 Employs one hundred and fifty (150) LUMBER & WOOD PRODUCTS, EXCEPT FURNITURE: 24 2499 WOOD PRODUCTS, NOT ELSEWHERE CLASSIFIED: Central Awning Co. 827 Shawmut Avenue 1932 Ralph Squelta, Owner ? High Employs one (1) 25 FURNITURE AND FIXTURES: 2512 WOOD HOUSEHOLD FURNITURE, UNUPHOLSTERED: Hub Woodworks, Inc. 827 Shawmut Avenue Carrillini, PR 1949 **∠**\$50,000 Fair \$400,000 \$ 45,000 Employs twenty-five (25) PRINTING, PUBLISHING & PRINTING 27 INDUSTRIES: 2711 NEWSPAPERS: PUBLISHING, PUBLISHING & PRINTING: 34 FABRICATED METAL PRODUCTS, EXCEPT MACHINERY & TRANSPORTATION EQUIPMENT: 3471 ELECTRO-PLATING, PLATING, POLISHING, ANODIZING & COLOURING: Modern Electro Plating Co., Inc. 2430 Washington St. 1932 Harry Saltzberg, PR **4**\$500,000 Fair \$625,000 \$430,000 Employs forty (40)

#### 5093 SCRAP & WASTE MATERIALS:

Ì.

Atlantic Junk 1020 Harrison Avenue 1955 A.G. Berman, Owner ? Fair \$500,000 ? Employs two (2)

- 51 WHOLESALE TRADE NON DURABLE GOODS:
- 5113 INDUSTRIAL & PERSONAL SERVICE PAPER:

Mass Corrigated Box, Inc. 12 Dade St. 1935 George Chiparas, PR (\$5,000 Good \$150,000 \$4,270 (?) Employs five (5)

5136 MEN'S & BOYS CLOTHINGS & FURNISHINGS:

See 5611 - Window to Watch

5137 Beerg's Millinery, Inc. 2111 Washington St. 1961 F.R. Dans, PR ? Fair \$30,000 ?, Employs two (2)

5139 FOOTWEAR:

Franklin Footwear, Inc. 960 Harrison Avenue
1965 K. Kelegian, PR - Boston
?
Fair
\$1 million
?
Employs four (4)

#### 5147 MEAT & MEAT PRODUCTS:

Circle Supply Co., Inc. 2407-2411 Washington St. Gerald Kay, Mgr. Watertown, MA ? High 0(?) 0(?) Employs fifteen (15)

| •    | A II-18   |
|------|---|
| 3479 | COATING, ENGRAVING, & ANODIZING SERVICES NOT ELSEWHERE CLASSIFIED:  |
|      | Modern Enameling Corp. 2340 Washington St.<br>1951 Leo Satlzberg, PR<br>\$500,000<br>Good<br>\$750,000<br>\$376,000<br>Employs forty (40) |
| 38   | MEASURING, ANALYZING, & CONTROLLING INSTRUMENTS, PHOTOGRAPHIC, MEDICAL<br>& OPTICAL GOODS - WATCHES & CLOCKS:                             |
| 3811 | ENGINEERING, LABORATORY, SCIENTIFIC & RESEARCH INSTRUMENTS & ASSOCIATED<br>EQUIPMENT:   |
|      | Lyn R. N <b>atins , M</b> gr. 37 Williams St.<br>Narins Lyn, Mgr. Burlington, MA  |
|      | Good<br>Final control and twenty (120)  |
| 41   | LOCAL & SUBURAN TRANSIT AND INTER URBAN HIGHWAY PASSENGER TRANSPORTATION:   |
| 4119 | LOCAL PASSENGER TRANSPORTATION NOT ELSEWHERE CLASSIFIED:  |
|      | Brewster Ambulance Service 91 Roxbury St.<br>1963 Mrs. M. Brewster, Owner<br>?<br>Good<br>\$50,000  |
|      | ?<br>Employs three (3)  |
| 42   | MOTOR FREIGHT TRANSPORTATION & WAREHOUSING:   |
| 4212 | LOCAL TRUCKING WITHOUT STORAGE:   |
|      | Wallace, Charles J. 2085 Washington St.<br>C.J. Wallace, Owner<br>?<br>Fair<br>\$50,000<br>?<br>Employs three (3)                         |
| 5063 | ELECTRICAL APPARATUS & FOUTPMENT, WIRING SUPPLIES & CONSTRUCTION MATERIALS  |
|      | See 5074 - Circle Supply  |
| 5074 | PLUMBING & HEATING EQUIPMENT & SUPPLIES:  |
|      | (Hydro <b>nics</b> )<br>Circle Supply Co., Inc. 2407-2411 Washington St.<br>1940 David Kaye, PR   |

\$\$\$00,000
High
\$1,25 million
\$206,000 Employs sixteen (16)

## 5149 GROCERIES & RELATED PRODUCTS, NOT ELSEWHERE CLASSIFIED:

Consolidated Bakeries Co. 109 Roxbury St. 1945 Michaël Kushner, Owner ? Fair \$750,000 ? Employs forty (40)

#### 5199 NON DURABLE GOODS - NOT ELSEWHERE CLASSIFIED:

Ralco Decalco 102 Dudley St. 1952 Maurice B. Alter PR \$20,000 Good \$115,000 \$ 13,500 Employs three (3)

65 REAL ESTATE:

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#### 6512 OPERATORS OF NONRESIDENTIAL BUILDINGS:

Owner's Incorporated 2275 Washington St. 1967 Lester Oshry, PR ? High \$300,000 \$ 26,600 Employs five (5)

## 72 PERSONAL SERVICES:

#### 7221 PHOTOGRAPHIC STUDIOS, PORTRAITS:

Walker, Samuel E. 2308 Washington St. 1956 Samuel E. Walker, Owner <\$10,000 Fair \$20,000 \$25,000 Employs one (1)

#### 73 BUSINESS SERVICES:

#### 7311 ADVERTISING AGENCIES:

A & K Advertising, Inc. 40 Warren St. 1972 Ernest D. Artin, PR ? Fair \$30,000 ? Employs three (3)

## 7392 MANAGEMENT, CONSULTING & PUBLIC RELATIONS SERVICES:

Small Business Development Corporation 90 Warren St. 1968 Bill Davis, PR ? Fair \$141,000 ? Employs eight (8)

#### 75 AUTOMOTIVE REPAIR, SERVICES & GARAGES:

## 7531 TOP & BODY REPAIR SHOPS:

R & F Auto Body 814 Shawmut Avenue 1968 J.T. Ridley, Owner ? Good \$45,000 ? Employs one (1)

## 76 MISCELLANEOUS REPAIR SERVICES:

#### 7641 REUPHOSTERY AND FURNITURE REPAIR:

Caristi, Frank & Sons 195 Dudley St. 1955 Frank D. Caristi, PR <\$50,000 Good \$90,000 \$40,000 Employs nineteen (19)

## 7699 REPAIR SHOPS AND RELATED SERVICES, NOT ELSEWHERE CLASSIFIED:

Brummit & Kelley Co., Inc. 33 Roxbury St. 1946 George T. Kelley PR ? Good \$30,000 \$ 3,090 Employs four (4) Additional Tables

List of Stores Missing from the Dun & Bradstreet Census (unfinished)

```
Amco Gasoline Station
Carroll's
Drain's House Style
Edison
Freddie Parkers
Highland Tap
Joe and Nemo's
Kims Kaps
Norman Daniel's Bail Bonds
National
One Hour Martinizing
Patio Lounge
Paul's Army and Navy Store
Robbell's
ShoeShelf
Skippy White's Records
Thom McCann Shoe Store
Trapp and Bro thers Dry Cleaning
Ugi's Submarine Shop
Woolworth's
Wynotte
```

Automotive Supply and Services in Roxbury

|  | Sales                                  |
|--|--|
| A-1 Transmission Service<br>ATZ Auto Service<br>Bay State Auto Body<br>Boston Auto Radiator Co.<br>Ca Motors<br>Columbia Car Corp. | 100k<br>?<br>75k<br>95k<br>25k<br>225k |
| Columbus Auto Body, Inc.   | 150k                                   |
| Dave's Oil Shop  | 18k                                    |
| Dudley Auto & Repair, Inc.<br>Eustis Auto Body   | 300k<br>?                              |
| Grayline, Inc.   | 200k                                   |
| Hawey Tire & Rubber Co.  | 100k                                   |
| Heritage Leasing Corp.   | ?                                      |
| Imperial Auto Body   | 30k                                    |
| King Automatic Transmission  | 30k                                    |
| L & L Auto Body  | 60k                                    |
| Mass Motor Service, Inc.   | 100k                                   |
| Merit Auto Body Repair   | 50k                                    |
| Muffler Mart, Inc.   | 200k                                   |
| Production at Body & Paint Co.   | 400k                                   |
| R & F Auto Body  | 45k                                    |
| Savage Auto Service, Inc.  | 400k                                   |
| Uphams Corner Auto, Co.  | 85k                                    |

SOURCE: Dun & Bradstreet, Market Indicators, December, 1973

Grocery Wholesale in Roxbury

| S | а | 1 | e | S |
|---|---|---|---|---|
|   | ~ | _ | ~ | _ |

| Adam's Chapman Co.<br>All State Beef Co.<br>Apotheker, Melvin M.<br>Associated Meat Packers | 5 m<br>200k<br>200k<br>3 m |
|---|----------------------------|
| Belles Wholesale Fruit & Produce  | 150k                       |
| Bennett, S. Co., Inc.   | 35 m                       |
| Bolton Smart Co., Inc.  | 7.3m                       |
| Celita Importing Co.  | ?                          |
| Consolidated Bakers Co.   | 750k                       |
| Cunningham, A.J. Packing Corp.  | 42m                        |
| Ebony Market, Inc.  | 229k                       |
| Festival Foods, Inc.  | ?                          |
| Fruit Co. Donald J  | 30,000                     |
| Fleishman J & Co.   | 950k                       |
| GLT, Inc.   | ?                          |
| Handy Pax, Inc.   | 1400k                      |
| Iowa Beef Co., Inc.   | 2000k                      |
| Kaye, Milton  | 150k                       |
| McCall, James   | ?                          |
| Morse Fish Co.  | 20k                        |
| National Royal Beef Corp.   | 6500k                      |
| New Boston Packing Corp.  | 550k                       |
| Old Colony Cha-Pac, Inc.  | 7000k                      |
| Prime Poultry Corp.   | 100k                       |

Rothstein B & Co. Inc.1000kRoxbury Wholesale Grocery, Inc.1120kSiegel Egg Co.1100kStewart Donald Auto Body50kSwift & Co.?

SOURCE: Dun & Bradstreet, Market Indicators, December, 1973

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APPENDIX III: Real Property Structure

# Introduction

In Appendix III, a compilation of land ownership in Dudley Square is presented.

A III-la

# Streets of the Dudley Square Commerical Area

| Dudley       38 - 195         Eustis       0 - 30         Gary       0 - 8         Guild Row       4 - 20         Harrison Ave.       985 -1201         Marvin       all |
|--|
| Eustis       0 - 30         Gary       0 - 8         Guild Row       4 - 20         Harrison Ave.       985 -1201         Marvin       all                               |
| Gary     0 - 8       Guild Row     4 - 20       Harrison Ave.     985 -1201       Marvin     all   |
| Guild Row4 - 20Harrison Ave.985 -1201Marvinall   |
| Harrison Ave. 985 -1201<br>Marvin all  |
| Marvin all   |
|  |
| Palmer 4 - 24  |
| Renfrew all  |
| Roxbury 2 - 118  |
| Ruggles 2 - 56   |
| Shawmut ~700 - 840   |
| Sterling 0 - ~50   |
| <b>Taber</b> 3 - 16  |
| Vernon $1 - 40$ (but not 39)   |
| Warren 6 - 78  |
| Washington ~1900 -2501   |
| Williams 0 - ~60   |
| Ziegler 0 - N50  |

## Census of Land Ownership of Dudley Square Commercial Area

## by Land Owner 1974

Source: Assessor's List of Property City of Boston 1974

| Owner & Address  | Property(ies)  | Land   | Bldg.  | _Tota1         | Tax     |
|--|--|--------|--------|----------------|---------|
| Abren, Joseph, et.al<br>Dorothy I. Abren                                   | 37,51 Roxbury Street   | 19,400 | 7,600  | 27,000         | 2656.80 |
| American Oil Co.   | Guild Row No. Corner   | 16,400 | 15,600 | 32,000         | 3148.80 |
| American Realty Syndicat<br>c/o Rosenberg<br>180 Beacon Street             | 50 Roxbury St.   | 30,300 | 23,000 | <i>5</i> 3,300 | 5244.72 |
| Aronson, Samuel<br>2326 Washington St.                                     | 2326, 2328 Washington<br>Street  | 7,500  | 6,500  | 14,000         | 1377.60 |
| Balerna, Alfred Trust<br>of Morm Balerna Realty<br>Trust<br>11 Roxbury St. | 11, 29 Roxbury St.   | 39,500 | 10,500 | 50,000         | 4920.00 |
| Barrett, Thomas F. &<br>Associates<br>9 Buggles St.                        | 9, 15, 25 Ruggles St.  | 14,600 | 29,300 | 41,100         | 5028.24 |
| Barron, Etta F.  | 2304 Washington St.  | 27,000 | 10,000 | 37,000         | 3640.80 |
| Berwick Realty Corp.   | 14, 26 Palmer St.  | 35,500 | 54,500 | 90,000         | 8856.00 |
| Bethel Tabernacle Choir,<br>Inc.   | 714, 716, 716A<br>Shawmut Ave.   | 5,300  | 5,000  | 10,300         | 1013.52 |
| Elue Hill Ave. Assoc.<br>c/o Primack<br>113 W 4th Cincinnati<br>45202      | 138, 148 Dudley St.  | 24,000 | 60,000 | 84,000         | 8265.00 |
| Boy's Club   | 32, Frm <sup>1</sup> 68R Dudley St   | 53,500 | 70,000 | 1.23,500       | Exempt  |
| Brayboy Robert L Jr etal<br>Adelaide Brayboy<br>69 Dudlev St.              | 69 Dudley St.<br>1,3 Kenilworth*   | 1,600  | 4,400  | 6,000          | 590.40  |
| Brecher, Murray  | 1 Taber  | 6,600  | 16,400 | 21,200         | 2066.40 |
| Brown, Herbert   | 194, 196R Dudley St.   | 4,900  | 3,600  | 8,500          | 836.40  |
| Boston Redevelopment<br>Authority<br>1 City Hall Plaza                     | Frm 81, 82, 83, 85,<br>87, 107 Roxbury St.<br>763, 769, 777, 779,<br>781, 793, 795, 817,<br>Shawmut Ave. | 74,200 | 54,400 | 128,600        | Exempt  |
| Butner, Ernest E. Sr.  | 794 Shawmut Ave.   | 2,500  | 2,000  | 4,500          | 442.80  |
| Bynoe, John L. & Edna V.   | 28, 30 Williams St.  | 2,800  | 5,000  | 7,800          | 767.58  |
| 30 Williams St.<br>Calianos, Theodore                                      | 4A, 6 Guild Row  | 12,000 | 13,000 | 25,000         | 2460.00 |
| Calvey, Charles J.<br>34 Warren St.  | 46 Ziegler St.<br>32A, 34A, 36, 38<br>Warren St.   | 10,700 | 19,300 | 30,000         | 2952.00 |

|   | 405409  |   |                 |   |           |
|---|---|---|-----------------|---|-----------|
| Owner & Address                               | Property  | Land                                    | B1dg            | Total                                   | Tax       |
| Capuzzo, Fiore                                | Frm 63, Frm 65, 67  | 3,900                                   | 1,100           | 5,000                                   | 512,00    |
| Cassie, Alexander                             | 24 Williams St.   | 1,400                                   | 2,500           | 3,900                                   | 383.76    |
| Cavallini, Anthony                            | 827, 833 Shawmut Ave.   | 29,700                                  | 13,600          | 43,300                                  | 4260.72   |
| Chase, Theodore Trust                         | 1, 15, 17, 19 Warren  | 127,400                                 | 54,600          | 182,000                                 | 17908.80  |
| 2260 Washington St.                           | Street 2260, 2262, 2286, 2302                                       | 1                                       |                 |   |           |
| Christian Mission                             | Washington Street<br>45 Vernon Street                               | 2,000                                   | 1,000           | 3,000                                   | 295.20    |
| 45 Vernon Street<br>Circle Supply Co.         | 2451, 2452 Washington   | 13,300                                  | 7,000           | 20,300                                  | 1997.57   |
| 2407 Washington St.<br>City of Boston         | Street<br>Municipal Court House                                     | 285,000                                 |                 | 1201,400                                | Exempt    |
| 1 City Hall Plaza                             | Frm 14, 20, 22, Frm<br>26, 28 Dade Street<br>46, 55, 61, 135 Dudley | (                                       | 916,400         |   |           |
|   | Street<br>Frm 6. Gary   |   |                 |   |           |
|   | Street<br>82 Roxbury Street   |   |                 |   |           |
|   | 766A,772, 787, 789<br>Shawmut Ave.                                  |   |                 |   |           |
|   | 2121, 2131 Washington<br>Street                                     |   |                 |   |           |
| Cohen. Joseph                                 | W Corner Ziegler St.<br>2167. 2171 Washington                       | 16.500                                  | 10.500          | 27,000                                  | 2656.80   |
| 2167 Washington St.                           | Street<br>SWS Gary Street   | ,                                       | 20,000          | ~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ~~~~~     |
| Cohen, Paul et.al.<br>Haskell Weiner.         | 6 Roxbury Street<br>2359 Washington Street                          | 10,600                                  | 3,400           | 14,000                                  | 1377.60   |
| Albert T. Cohen<br>Trusts                     |   |   |                 |   |           |
| Commonwealth Lodge 19                         | 720. 720A Shawmut Ave   | 3,500                                   | 500             | 4,000                                   | 393.60    |
| IBPO, Elks of the World                       | ,, ,  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 200             | .,                                      | 2,2,0,000 |
| Conroy, Marion                                | 89, 95 Roxbury Street   | 4,000                                   | 2,500           | 6,500                                   | 639.60    |
| Cunningham, John A. etal<br>Timothy G. Nelvin | 2360A, 2362A Washingt   | 22,500                                  | 2,500           | 25,000                                  | 2460.00   |
| Lena E. Kelly                                 | ton Street  |   |                 |   |           |
| Dixon, Charles, et.al.                        | 54, 56, 58 Dudley St.   | 5,100                                   | 2,900           | 8,000                                   | 787.20    |
| 58 Dudley Street                              | 21 22 25 Derhuma Ct   | 1 400                                   | 200             | 5 200                                   | 511 60    |
| 137 W 10th                                    | JI, JJ, JJ ROXDURY St   | ~,~00                                   | 800             | 5,200                                   | 711.00    |
| Department of Public                          | Frm 40 Sterling St.   | 800                                     | -               | 800                                     | Exempt    |
| Works<br>100 Nashua Street                    |   |   | 11 0 500        | 000 500                                 | 17000 01  |
| 2220 Washington St.                           | 12 Palmer Street  | 85,700                                  | цэ <b>,</b> 500 | 208,500                                 | 4229.84   |
|   | Frm 2148, 21785, 2196,  |   |                 |   |           |
|   | 2212, 2214, 2220, 2222<br>2224 Washington St.                       | 0                                       |                 | ga har                                  | 1001 51   |
| Dunn, Albert<br>19A Palmer Street             | 19 A Palmer Street  | 3,900                                   | 7,500           | 11,400                                  | 1021.76   |

| Owner & Address   | Property   | Land    | Bldg   | Total   | Tax      |
|---|--|---------|--------|---------|----------|
| Dyer, Joseph<br>18 Williams Street  | 18 Williams Street   | 1,500   | 1,300  | 2,800   | 275.52   |
| Eaves, Jay H.   | 59 Dudley Street   | 1,200   | 2,600  | 3,800   | 373.92   |
| Ellcock, Harry et.al.<br>Marvin L. Sayles<br>171 Dudley Street  | 171, 179 A Dudley St   | 3,000   | 10,000 | 13,000  | 1279.20  |
| Eliot Savings Bank<br>165 Dudley St.  | S, SWS, 165 Dudley St<br>1208, Frm 1214<br>Harrison Ave.<br>2 Warren Place | 30,700  | 70,000 | 95,700  | 9908.88  |
| Ethridge, Noah<br>14 Taber  | 14 Taber   | 2,200   | 800    | 3,000   | 295.20   |
| Filips, Stephan & Anna<br>104 Roxbury Street  | 104 Roxbury Street   | 2,300   | 1,000  | 3,300   | 324.72   |
| First National Bank<br>114 Dudley Street  | 114, Frm 122, 144<br>Dudley Street<br>2374 Washington St                   | 76,600  | 53,600 | 129,800 | 12772.32 |
| Elowers, Johnnie<br>118 Roxbury Street  | 118 Roxbury Street   | 1,700   | 3,000  | 4,700   | 462.48   |
| Freedman, Edwin<br>31 Eustis Street   | 29, 31 Eustis Street<br>1105 Harrison Ave.                                 | 2,200   | 6,800  | 9,000   | 885.60   |
| Garcia, Luis, Marta   | 57 Dudley Street   | 1,200   | 2,600  | 3,800   | 373.92   |
| George Washington Carver<br>Grand Lodge, Inc<br>Ancient Free & Accepted<br>Masons,  | 51 Dudley Street   | 7,500   | 10,200 | 17,700  | exempt   |
| Golden, Harold W.   | 152, 156 Dudley St.  | 25,400  | 19,600 | 45,000  | 4428.00  |
| Goldstein, Louis<br>Julius Goldstein Trust<br>of the Neyerann Trust,<br>c/o Goldstein<br>108 Dudley Street                  | 95, 97, 104, 112<br>Dudley Street<br>19, 23 Guild Row                      | 96,800  | 15,200 | 32,000  | 3148.80  |
| Gonzales, Reyes Luis E.<br>48 Dudley Street   | 2 Dudley Place<br>48 Dudley Street   | 1,500   | 2,500  | 4,000   | 393.60   |
| Gordon, Mary I.<br>718 A Shawmut Ave.   | 710, 710 A Shawmut Av  | e 2,000 | 3,000  | 5,000   | 492.00   |
| Gould, Annie<br>792 R Shawmut Ave.  | 792 R Shawmut Ave.   | 1,000   | 200    | 1,700   | 167.28   |
| Green Milton Trusts<br>Leonard Kaplan, David<br>Greenberg Trusts of<br>Green Brothers Realty<br>Trust<br>1330 Beacon Street | 2235, 2241, 2315,<br>2337, Washington St.                                  | 122,000 | 63,000 | 190,000 | 18696.00 |
| Hansel, Cecil N. et.al<br>Earbara I. Mansel<br>34 Williams Street   | 34 Williams Street   | 1,400   | 2,500  | 3,900   | 383.76   |
| Hershenson, David N.Trst<br>Jerold M. Hershenson<br>Trusts of Hershenson<br>Realty Trust                                    | 803, 815 Shawmut Ave.  | 19,800  | 20,200 | 40,000  | 3936.00  |

803 Shawmut Avenue

| A III-5   |   |                 |                  |           |         |
|---|---|-----------------|------------------|-----------|---------|
| Owner & Address   | Property  | Land            | Bldg             | Tota1     | Tax     |
| High Voltage Engineering<br>Corporation<br>37 Williams Street   | 37 Williams Street                                | 15,500          | 34,500           | 50,000    | 4920.00 |
| Highland Tap<br>2128 Washington Street  | 3 Eustis Street<br>2128, 2130 Washingto<br>Street | 9,500<br>n      | 11,500           | 21,000    | 2066.40 |
| Holt, Kenneth<br>190 Dudley Street  | 190, 192 Dudley Stre                              | et 4,400        | 4,000            | 8,400     | 826.56  |
| Horowitz, Harold L. etal<br>France P. Horowitz<br>2219 Washington Street                              | 2219 Washington St.                               | 13,200          | 11,800           | 25,000    | 2460.00 |
| Kaye, David Trust of<br>Weinstein, Saul Trust<br>Evelyn Weinstein of<br>Shep Realty                   | 2407, 2413, 2445<br>Washington Street             | 8,800           | 6,400            | 15,200    | 1495.60 |
| Kelly, Paul   | 770 Shawmut Avenue                                | 2,800           | 1,200            | 4,000     | 393.60  |
| Kent, Henry K.<br>Marilyn C. Kent   | 39, 47 Warren Street                              | 25,600          | 8,400            | 34,000    | 3345.60 |
| Koplow, Martin etal.<br>50R Dudley Street   | 50 Dudley Street                                  | 2,200           | 6,200            | 8,400     | 826.56  |
| Larosa, Donald A.<br>Josephine B. Larosa<br>671 Concord Ave.  | 72, 74 Roxbury St.                                | 5,000           | 5,000            | 10,000    | 984.00  |
| Levin, Frannie<br>42 Cambridge  | SWS Dade St.                                      | 500             | -                | 500       | 49.20   |
| Levin, Henry Trust  | 2101, 2107, 2109,<br>2115 Washington St.          | 62,000          | 28,000           | 90,000    | 8856.00 |
| Lewis, Charles H. etal.<br>Susie E. Lewis<br>40 Williams St.  | 40 Williams Street                                | 1,600           | 3,400            | 5,000     | 492.00  |
| Lieberman, Shirley<br>c/o N. David<br>Lieberman   | 2249, 2259 Washington<br>Street                   | n 63,500        | 24,700           | 88,200    | 8678.88 |
| Lower Roxbury Community<br>Corporation<br>85 Vernon Street  | 725 Shawmut Avenue                                | (not li         | sted)            |           |         |
| Marando, John T.  | 38, 67 Dudley Street                              | 2,600           | 3,200            | 4,800     | 570.72  |
| May Clement W. Trusts<br>William J. Manseau Trst<br>of Open Ear Association<br>53 Dudley Street       | 53 Dudley Street                                  | 1,200           | 3,600            | 4,800     | exempt  |
| Massachusetts Bay Trans-<br>portation Authority   | 130 Dudley Street<br>25 Shawmut Avenue            | 366,700         | 592 <b>,</b> 800 | 959,700 e | exempt  |
| Morris Maria Trust<br>Irene M. Antonion,<br>Peter J. Morris Trust-<br>ees of Jo Marip Realty<br>Trust | 6, 8 Taber<br>18, 20 Warren Street                | 13 <b>,</b> 700 | 8 <b>,3</b> 00   | 22,000 2  | 2164,80 |
| Nost Worshipful GWCarver<br>39 Dudley Street  | 39, 45 Dudley Street                              | 3,300           | -                | 3,300     | 324.72  |

|  | A III-6   |         |        |                 |                 |  |  |
|--|---|---------|--------|-----------------|-----------------|--|--|
| Owner & Address  | Property  | Land    | B1dg   | Tota1           | Tax             |  |  |
| National Shawmut Bank<br>160 Dudley Street   | 160, 162, 170 Dudley<br>Street<br>1181, 1185 Harrison                     | 42,600  | 48,900 | 9 <b>1,</b> 500 | 9003.           |  |  |
| New Hope Church of<br>Jesus Christ, Inc.   | 722A, 724 Shawmut Ave   | 4,800   | 4,200  | 9,000           | 885.60          |  |  |
| Novick, Simon<br>Millis, Ma 02054  | 758 Shawmut Avenue  | 2,400   | 5,300  | 7,700           | 757.68          |  |  |
| Opportunities Indus-<br>trial Center<br>186 Dudley Street  | 182, 186 A Dudley St  | 9,000   | 31,000 | 40,000          | 3936.00         |  |  |
| Perry, Helen M. Trust<br>Sylvia Ackerman Trusts,<br>Green Dept. Stores,<br>1330 Washington St.       | 2301, 2311 Washington<br>Street   | 80,000  | 60,000 | 140,000         | 13776.00        |  |  |
| Pitts, Marie J.  | 794 R Shawmut Ave.  | 1.00    | 500    | 1,500           | 147.60          |  |  |
| Popper, Helene F.<br>Joseph Feldman  | 2221, 2225 Washington<br>Street   | 29,100  | 26,800 | 55,900          | 5500.56         |  |  |
| Rabufetti, Francis etal<br>Augusto G. Rabufetti  | 2363, 2365 Washington<br>Street   | 9,000   | 5,000  | 14,000          | 1377.60         |  |  |
| Ralco Decalco Co.<br>102 Dudley Street<br>Re Nancy<br>106 Roxbury Street<br>Reed, Lillian            | 102 Dudley Street   | 3,800   | 4,200  | 8,000           | 787.20          |  |  |
|  | 106 Roxbury Street  | 4,400   | 1,000  | 5,400           | 531 <b>.3</b> 6 |  |  |
|  | 780R, 782 Shawmut Ave   | 2,100   | 2,100  | 4,200           | 413.28          |  |  |
| 780R Shawmut Ave.<br>Rees, Lillie G. Etal<br>Eleanor F. Rees, Wilf-<br>liam G. Rees Trustee          | 2, 20 Ruggles Street<br>2201, 2209 Washington<br>Street                   | 84,700  | 80,300 | 165,000         | 16236.00        |  |  |
| Ridley, John T. Jr.  | Cor Marvin Street   | 9,100   | 4,900  | 14,000          | 1377.60         |  |  |
| Rink Realty Inc.   | 17, 25 Williams Street  | t 9,100 | 16,300 | 25,400          | 2499.36         |  |  |
| Rivers, Leah   | 799 Shawmut Avenue  | 3,300   | 1,000  | 4,300           | 423.12          |  |  |
| Robinson, Benjamin F. Jr   | 788 Shawmut Avenue  | 3,000   | 800    | 3,800           | 373.92          |  |  |
| Rosengard, Helen etal<br>Bessie G. Waldman<br>Trust of Fritz Trust<br>c/o Fritz                      | 2173, 2181 Washington<br>Street   | 59,900  | 5,100  | 65,000          | 6396.00         |  |  |
| 15 Gibbs<br>Rothenberg, Suzanne etal<br>Lucy Sagalyn   | 8, 18 Guild Row<br>2385, 2391 Washington                                  | 14,300  | 12,700 | 27,000          | 2656.80         |  |  |
| 28 Foster Street<br>Roxbury Dental and<br>Medical<br>26 Warren Street                                | Street<br>Frm 179-181, 183, 187,<br>187A, 189, 193, 195<br>Shawmut Avenue | 13,700  | 6,000  | 19,700          | 1938.48         |  |  |
| Saltzberg, Harry M Trst<br>Frances H. Saltzberg,<br>Julius Stone Trsts of<br>Saltzberg Realty Trusts | 2430 Washington St.   | 61,600  | 86,400 | 148,000         | 14563.20        |  |  |
|  |   |         |        |                 |                 |  |  |

| Owner & Address  | Property   | Land               | Bldg    | Tota1   | Tax      |
|--|--|--------------------|---------|---------|----------|
| Salvation Army<br>147 Berkeley Street<br>Schuurman, Gerrit   | NES, Cor, 23, Frm 27<br>29 Vernon Street<br>SES Dade   | 10,700             | 20,000  | 30,700  | exempt   |
| George Heinbegner  | 2159, 2163 Ballinger   | *49,300            | 11,000  | 60,300  | 5933.52  |
| Sephus Osborn Trust  | 60 R Dudley Street   | 800                | 600     | 1,400   | 137.76   |
| Schaffer, Abraham Trust<br>8 Williams Street   | No Cor Dade Street<br>2121, 2131 Washing-<br>ton Street<br>8, Frm 20, 22 Wil-<br>liams Street  | 56,800             | 45,800  | 102,600 | 10095.84 |
| Silva, Claudia<br>c/o Ronald Rainer<br>Box 1   | 2278, 2282 Washing-<br>ton Street  | 7,000              | 2,000   | 9,000   | 885.60   |
| Smith, Michael Trusts<br>Marvin H. Cohen Trusts<br>of M&M Realty Trust<br>67 Roxbury Street  | 67 Roxbury Street  | 4,900              | 4,100   | 9,000   | 885.60   |
| Smythwick, Nancy<br>40 Dudley Street   | 40 Dudley Street   | 1,500              | 2,100   | 3,600   | 354.24   |
| Stan B & Co.<br>2093 Washington Street   | 2093, 2095 Washing-<br>ton Street  | 6,400              | 1,100   | 7,500   | 738.00   |
| Swett, Herbert C.<br>53 Roxbury Street   | 53, 63 RoxburySt.  | 18,000             | 32,000  | 50,000  | 4920.00  |
| Tab Associates<br>41 Ruggles Street  | 746, 750 Shawmut Av  | 16,900             | 12,600  | 29,500  | 2902.80  |
| Thirza, James A.   | 26 Williams Street   |                    | ×       |         |          |
| Walcott Corporation<br>824 Boy1ston Street   | No Cor. Vernon St<br>2261, 2275, 2277,<br>2285 Washington St.  | 63,500             | 24,700  | 88,200  | 8678.88  |
| W. Bowman Cutter, Inc.<br>2377 Washington St.  | 8, 10 Guild Row<br>2377 Washington St.   | 12,000             | 7,000   | 9,000   | 1869.60  |
| Waters, Rosella<br>2147 Washington St.   | 2147, 2149 Washing-<br>ton Street<br>Ballinger Place*  | 18,200             | 1,800   | 20,000  | 1968.00  |
| Webster Atlas Building<br>Corporation<br>225Franklin Street  | 2343, 2345 Washing-<br>ton Street  | 110,500            | 98,500  | 209,000 | 20565.60 |
| Weinstein, Louis Trusts<br>Saul Weinstein Trust,<br>Mels Realty, c/o<br>Weinstein<br>2401 Washington Street  | 99, 105 Dudley St.<br>2397, 2401, 2403<br>Washington Street.   |                    |         |         |          |
| Weinstein, Saul Trusts<br>Harold Weinstein Trusts<br>of American National<br>Realty<br>2401 Washington Street<br>Evelyn Weinstein Trusts<br>of Shep Realty<br>62, 78 Warren Street<br>Louis Weinstein Trusts | Frm 75-79, Frm 83-85<br>Frm 87-89, 191 93,<br>99, 105, 155<br>Dudley Street<br>2371, 2397, 2401,<br>2403 Washington<br>Street<br>So, Corner Gurney St<br>668. 670 Parker St. | 79,000<br>*        | 155,300 | 265,000 | 23055.12 |
| 1203 Marrison Ave.<br>White, Charles & Edith   | 38 Williams Street   | 1,500              | 3,000   | 4,500   | 442.80   |
| 38 Williams Street<br>White, Eula M.   | 36 Williams St.  | 1,500              | 2,500   | 4,000   | 393.60   |
| 36 Williams Street   |  | • margara (m. 194) |         | -       |          |

| Owner & Address   | Property                                 | Land  | B1dg  | Total | Tax    |
|---|--|-------|-------|-------|--------|
| Women's Social Christian<br>Service<br>New England Conference<br>Methodist Church, Inc.<br>32 Williams Street | 711 Shawmut Avenue<br>32 Williams Street | 1,400 | 5,500 | 6,900 | 678.96 |
| 1965 (Par. 1  |  |       |       |       |        |

Key "Frm" = Formerly " \* " = Street address not within the Dudley Square Commercial Area