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INTRODUCTION

Frederick J. Adams, for a number of years head of the department of City and Regional Flamming at the Massachusetts Institute of Technology, defined planning as a process which deals with the ways of guiding or controlling the use or development of limid in such a way that maximum social and economic benefit may acrue to the people of a city being planned, through the improvement of its physical environment. In an urban area where such a viable physical environment does not exist, it is likely that the social and economic benefits of that area are retarded, and that the quality of urban life becomes substandard. The result is that the ain for a better life for citisens loses its vigor and direction. Among all obstructions hindering the betterment of life for millions of American urbanites, the obsolescence found in most of the major American cities ranks very high. The conditions attending metropolitan housing, schools, hospitals, transportation, and wereations are fast becoming intolevable. The vorst of all are urban elume.

But however deep and fundamental may be the problem related to slume and their elimination, attempts must be made to eradicate them because unless they are eliminated, urbanites will be unable to enjoy the high quality of modern living offered by modern ecience and technology. In the process of eradicating alums, however, a tresendous task is imposed on the planner who must face the challenge presented by slume and hight. He must know that The nature of the nodern slums is a complox model and physical phenomenon, and the planner must approach the problem related to alum elimination in a manner which is not narrow or procedular scope. He must reject the theory that slums will disappear if only enough new housing of higher quality can be built by the public or private enterprises. While contemplating a corrective course of action the planner must first learn to strike at the heart of the vocklem.

The planner, therefore, must attempt to eliminate the germs of slums. To achieve this end, he must equip himself with a substantial amount of knowledge and information concerning the causes of slums, their development and growth. In order to trace the origin of the present alums of kmerican cities, the planner must turn back to the days which were highlighted by the Industrial Revolution in the early nineteenth century. The development of the machine and the repidity with which it began to outproduce the handcrafts attracted thousands of workers from rural areas to work in urban factories. It was then that the modern slums, as we know then, becam to prov.

The low wages received by these workers were not scough to allow that or ent descent quarters, and the rapidly increasing industries continued to multiply the urban masses. Housing had to be provided but because of the rapid inflow of twokers from these areas, housing was inadequate. Now sections were created constating entirely of temmonate for manual vertices. These temmeants were poorly designed... available space in these structures. These temmeants are not provided and the continues of the section of the continues of the c

¹Eugene T. McGraw, <u>Relocation As It In Related to the Kervay</u> <u>Urban Renewal Project, Topeka, Kensas</u>, Kansas State University, 1963, p. 1.

²E. E. Burgel, <u>Urben Seciology</u>, New York: McGraw-Hill Book Co., Inc., 1955, pp. 412-413.

The vigor of the Industrial Ravolution in this country was greatly increased by the Civil War of the 1860's and the simultaneous development of the nation's railroads. These developments caused the mechanization of agriculture which increased farm size and reduced the number of farms. The obvious consequence of this process was that many farmers had to quit farming, and left for cities to earn their living. Thus, a process of rural-urban migration set in, with the southern farmers migrating to the morth and northeastern cities.

This overcrouding of citice was made more serious by the great waves of immigration from overseas, mainly from the European countries. Nost of these immigrants settled in urban areas. Because the housing supply was already limited, they not only filled the existing slume but also created new ones. These immigrants were educationally too backward to work at jobs paying higher wages. Consequently, they were compelled to live in poor housing. As a result of these conditions, slume developed quickly in urban areas, bringing with them their inevitable compenions—epidentes, diseases and untirely deaths.

Continued growth of alums in these areas was also enhanced by another factor—the thriving business carried on by the slum landlords. They provided housing to the low income families for a high economic return on their investment. The keeping of these slum dwellings was a highly profitable business:

The returns on the investment of the owner of those alum dwellinge rerely fell below 15 percent, and quite often it exceeded 30 percent per year. The complaints among tenants of these slum dwellings was universel that they ware totally uncared for, and that requests to have maintenance performed ruln of derier. The rent agent's

instructions were simple: they were to collect rent in advance, and if they failed they were to have occupants ejected.

The same fate was not by the southern rural Negroes who as a result of farm mechanisation came to the northern cities. The only shelters they found were in blighted areas of the central cities, thus once again setting in notion a repid process of further deterioration of the older sections of these metropolitan areas. The famous Elack Belt of Chicago, and the area known as Marlem in New York City are two glaring examples of contemporary slums contributing to American urban deterioration. These areas and many others like them in the metropolitan areas of this country have been turned into "ghettos" for the Negro.

The development and growth of slums to make these areas disorganized socially, economically, and physically was accelerated by
another new dimension—the automative explosion after Verld War II.
Due to increased mobility, the higher and middle income white population
left the central cities for the suburban outskirts in unprecedented
numbers. This phenomenon dealt a heavy blow to the central cities, and
was responsible for the "some of transition" around the central business
districts. The vacuum created by the flight of the privileged group was
soon filled by lowincome groups, especially the nonwhite population whose
depressed socioecomonic conditions along with the changing environment
hastened the process of detrioration. Overcrowding, the conversion of
structures into multiple dwellings and rooming houses coincident with
mixed land uses, added to the deterioration of these once-satisfactory

³ Eugene T. McGraw, Rei Strate In Releted to the Kerway Union Renewal Project, Tonoka, Jan. , Kansas State University, 1963, p. 6.

areas. The result was that not only large cities but also the middlesized ones experienced the growth of slum districts.

This is the eituation concerning the development of blight and slums in the cities of this country presenting encrouse problems to be resolved by the planners, sociologists, economists, and politicians alike. The United States as a nation, however, has not remained passive to this retarding aspect of their urban living. The Federal Government is spending millions of dollars a year in the form of aids and loans to the hundreds of local communities in launching an all-out attack to remove slums and blight. As a result, many communities across the nation are randily becenter involved in urban research.

Blowver, in order to qualify for the federal grants to arrest and eradicate blight, local communities have to comply with certain requirements imposed on them. One of these is the Workshile Program, as epocified in the Federal Housing and Urban Renewal Act of 1954. The Neighborhood Analysis is one of the major elements in the Workshile Program, and as a part of urban renewal planning, it is used as a dovice to provide a yardstick of measurement for determining the nature and extent of urban renewal necessary for a given community.

While developing a renewal plan the purpose of which is to cradicate blight, the planner needs to recember some of the basic facts related to his professional role. In rendering professional services to a community, his foremost function is to develop present and future positive courses of action which can be used as a basis for allowing a community to achieve its goals and objectives. It goes without saying that the goals and objectives of any community should constantly be concommed with providing a high standard or quality of urban living. The term "quality of urban living" is used here to mean an urban convironment under which a community can achieve mann un social and economic benefits. It will be agreed that a blighted environment retards the attainment of community goals in terms of raising the quality of urban life. A planner's primary task is to develop means to cradicate this undesirable environment; he is expected to perform this task in an optimum manner, i.e., at as low social and economic costs as possible. His secondary function as a professional is then to minimize costs for the community in achieving its objectives.

To attain this twofold goal it is meassary to develop the best possible plan for action, which in turn requires carefully and thoroughly analysing the given situations prevailing within the community. The most appropriate plan will always depend on the best possible analysis of existing conditions.

From the standpoint of urban renewal planning, when a community aims at radicating blight, the planner's function is to proceed systematically to explore where blight is, how intense it is, what its nature is, and what the causes are that have brought it into being and have allowed it to grow. Only then, after having been equipped with such information, will he be in a position to advise the community concerning possible corrective measures. The Neighborhood Analysis is the study that covers all these micro aspects of blight for a given community.

Purpose

The substance of this paper is to describe and present certain techniques by which a given community will be able to locate and measure physically blighted areas within its locale from the available statistical information concerning that community. Accordingly, an attempt is made to investigate and ascertain the most appropriate courses of treatments necessary to arrest and eradicate blight and alums, and prevent their spread into healthy community areas, and ensure that a well balanced physical environment for the citizens of the community is, therefore, maintained.

Scope

The techniques to be discussed in this paper for the various stages of the Neighborhood Analysis will largely apply to cities of matropolitan level. The reason cities selected for this study have been limited to this level is that the U.S. Bureau of Gensus has not yet established consus tracts for cities other than motropolitan areas. Since much of the information concerning various blight indicators is based on census tract information, cities other than the Standard Netropolitan Statistical Areas are likely to require different kinds of techniques to analyse and locate their blighted areas. The methodology adopted for the present study will, however, be inclusively applicable to cities greater than 100,000 population.

Chapter I of this paper is devoted to an analysis of the causes of blight. There is no one factor or set of factors which can be singled out as being the exclusive cause of blight. The causes of blight can be best understood from the standpoint of social, economic, political, and physical interrelationships that profine cause-effect relationships. An attempt is nable in mile chapter to ascertia. Whether people make always

or slums make people. A blight cycle is presented to aid in understanding this phenomenon.

Ohapter II is devoted to describing techniques that may be employed to tentatively delineate the blighted areas of a given city. In this chapter a concept called, "Preliminary Nacro Analysis" is applied to ascertain the extent of blight in a given urban center by meighborhoods.

Chapter III is devoted to detailed in-depth studies for individual neighborhoods testatively selected from the Preliminary Macro Analysis. Techniques are described how the neighborhood indices are determined, and how data are collected, analyzed, and correlated. The techniques of "weighting" and "ranking" are demonstrated how they may be applied to form a basis for measuring the degree or intensity of blight in each neighborhood.

Chapter IV focuses on techniques which demonstrate how to make a final delineation of blighted areas based on the in-depth studies discussed in Chapter III. The concept employed here is that of "Pinal Macro Analysis." It is suggested that this method be used to set the blighted neighborhoods apart in terms of hierarchy of problems. In the final chapter, a methodology for remedial action is concerned with the individual neighborhood. Criteria developed in this chapter will show when an area requires clearance, redevelopment, rububilisation, conservation, or some combination of them. In conclusion a brief discussion is made about the implementation of the various recommendations suggested in a Neighborhood Analysis Seport for a given community.

HADERS T

BLIGHT, AND ITS CAUSES

The purpose of this chapter is to describe blight in terms of its Various physical, social and economic characteristics from which will be drawn a general definition of "Dhight" and "Dhighted areas." The second part of the chapter enumerates and explains the factors which demonstrate the condition of interplay within and among themselves in a cyclical fashion, intensifying the growth of Dight in urban areas.

"Blight" and "blighted areas" are terms that have come into common use in recent years. Although they entered the vocabularies of planners, housers, realtors, and others before the concept of urban renewal came into being in 1954, the usages of these two terms have grown hand-in-hand. Elight is a generic term which is never applied to a single building. It refers to an area. It is not indicative of one characteristic or condition, nor even to a set of conditions or characteristics that are found in the same combination. Instead, it covers a fairly wide range of characteristics that are found in a variety of combinations from one situation to another. However, without trying to be too brief, it will probably be agreed that two basic characteristics of blighted areas are "substandariness," and other "stagnation" or "deterioration."

Substandardness is basically a condition in which an area falls below certain accepted standards or requirements of fitness for the purpose for which it is being used. Controversy still exists as to what those minimum standards or requirements should be for various kinds of use, how they should be measured, and so forth. No one, however, defice that in more or less definite form such specifications on fitness do exist and that they are being applied. In almost any given community, substandardness can be identified with respect to:

- (a) Buildings: their design, equipment, structural soundness, repair, and maintenance.
- (b) Lend subdivision and lay out: size and shape of lots, coverage, density, and sometimes even the amount and allocation of areas for new or expanding uses.
- (c) Community facilities and services: water, sewer, schools, recreation, transportation, etc.
- (d) Location: nearness to obnoxious uses, accessibility to other districts from which people and goods regularly go back and forth.
- (e) Land use patterns: Nonconforming uses--residential units located in industrial and commercial areas, commercial uses found in industrial areas, etc.

When a neighborhood or an area is markedly substandard in some or all of these respects, it is usually but not always blighted. If in addition to being substandard in these respects, an area is nog improving but either stegnating or deteriorating, it fully qualifies for the label "blighted" in the physical sense.

On the basis of statistical corrulation techniques, the human ecologists and anthropologists have attempted to precisely determine if there is any relationship between physically blighted areas as described above and the incidence of social discommination. Their findings reveal

that incidence of social disorganization is positively correlated with deteriorated obsolete areas. Such areas are called socially disorganized areas, bocause such aberrations as delinquency, vice, suicide, mental disorders, alcoholism, divorce, desertion, poverty, mortality and diseases, etc., occur at a very high rate compared to other sections of the city.

This high incidence of social disorganization in blighted areas is ably demonstrated in a number of studies undertaken by British and American coologists.

In the early 30% a survey showed that in the inner districts of Idverpool where slums are, there is a confinience of high birth rate, overcrowding, powerty, physical and mental defects, alcoholism, chronic destitution, immorality, and criminality, whereas the outer districts show much lower rates.

Traits of social disorganization have also been extensively studied in Chicago. Investigations of the distribution of delinquency rates resulted in important findings:

Crime and delinguamoy tend to be concentrated in specific areas of the city, not evenly distributed according to the density of population. Their incidence was highest near the central business are found in Glodago in a such-citric around the Long state business are found in Glodago in a such-citric around the Long state of daterioration—an area of slight social control where there is lack of law and order, 5

Thus we see that there exists a positive correlation between physically blighted obsolescent environments and the insidence of social disorganisation. This is particularly true in the "zons of transition" which normally surrounds the present terioan city-centers. The various traits characteristic of this zone constitute urban blight, which begins

⁴R. E. Dickinson, <u>City and Region</u>, London: Routledge and Kegan Paul Ltd., 1964, p. 183.

⁵<u>Ibid</u>., pp. 184-185.

at the edge of the contral business district and spreads outward radially like a creeping paralysis to cover a large part of the urban area-particularly the areas with pre-1900 structures. Probably the bost indicator of this condition of urban blight in this area is the fact of high population densities, mixed land uses, and decreasing population. A blighted area can, therefore, be defined as an area which is characterized by:

- (a) High but falling land values.
- (b) Congested but decreasing population.
- (c) Obsolete and unfit housing.
- (d) An intensive intermingling of nonconforming land uses.
- (e) A large proportion of abandoned buildings.
- (f) Low average rentale.
- (g) Low economic status of inhabitants.
- (h) Excessive crime, mortality, and disease rates.
- (1) High per capita per acre government costs.

Such an area is obviously an economic and social liability to a community.

A slum connotes an extreme condition of blight in which housing ie so unfit as to constitute a menace to the health and morals of a community.

Causes of Blight

The sagging roof, the cracked foundation, the peeling paint, the broken window--these are all outward signs of blight, not its causes. In any study of blight, the main objective is to form a comprehensive

^{6&}lt;u>Ibid</u>., p. 186.

understanding concerning the nature of it. On this understanding depends the means for its cradication. Nore important than discovering the areas of blight is therefore, determining the reasons why it exists in the first blace.

The factors that are responsible for the development of blight and slums in this country have been in operation for a long time. Since these factors were not controlled in the past, they have with the passage of time beloed to multiply the magnitude and intensity of blight. The inevitable consequence has been the blighted environment for the present generation. The brief historical development of slums reviewed in the introduction of this paper cited the way in which dities became overcrowded because of the beavy inflow of people from rural areas as well as from overseas. It was at that time that the modern slums, as we know them, began to grow.

This implies that at any given period of time when an observer looks into the causes of slums, he must look to the past in order to identify the original causes. It is to the economic, social, and political conditions under which people of that time lived which are chiefly responsible for the origin of the slums presently found in America's cities. When we speak about the people of past generations and the present and the part they play in the making of slums, we must consider their level of literacy, their culture, attitudes, and tastes as well as their sense of responsibility to themselves, their meighborhood, community, and society in memoral.

In the context of the historic development of slums, economic forces were the most responsible for causing the movement of people into are reas. Practly, most airward to cities with the hope of present min in the common and a betwee way of life. But unfortunately the beams have received were as low that they could not afford good borning. Todascandly, they were forced to live in substandard housing leases in the increasingly substandard cross. This situation added to the directly over-roused temments occupied by poor urban dwellers. Over-crowling thu, was caused primarily by economic fasters. This is characteriatio of the history of alum development. In 1950, there were 10.5 million Aperican families who lived on an income of less than 25,000 a year. In such a situation, the only alternative loft to the poor urban dweller was an for is to live in substandard overcrowled housing units.

The domains for low cost, low rent housing in the mation's cities are acted an incentive among housers and realtors to do a thriving business. They constructed houses that were poorly planned and designed, using chean materials in the process. Their continued and deliberate negligence in maintenance and regains produced structural and environmental deterioration. The intention behind all this was to minimize costs and maximize profits. Today the inavitable consequence of this process is forcing the littled States, as a mation, to pay the price not only in millions of dollars a year, but also in huge unquantifiable social costs for the mistaless committed by its past generations.

Thile investigating the fundamental aspects of poverty, one, however, cannot help but discover the social forces which contribute to the cause of slim development. These social forces are represented by an

⁷E. E. Burgol, The Coislaw, New York: McGraw-Hill Book Co., Inc., 1955, p. 4-7.

intervoven fabric of ruce, low income, low educational attainment, and limited occupational abilities. The reasons for much of this lie partly with the social attitudes of the individuals themselves who reside in these slum areas, and with society as a whole. From its inception, the American social system has been designed and structured in such a way that all individuals while supposedly equal before the law are not alike or equally capable in terms of efficiency, merit, intelligence, hopes, or embitions. In all societies there are those individuals who lack initiative, vigor, aims, and aspirations. They seem to be content with what they have or what is available to them. They do not mind living in substandard bousing, because they are used to it. This sort of mentality possessed by some groups of people is, to a major extent, responsible for the growth and nourielment of blight, and certainly for its intensity.

The causes of alums can also be identified from a political perspective. Local governments do have control over land use and the development of urban land by virtue of "Bainont Domain," and soning under the "Rolice Power" delegated to them by their respective state governments. But in the past, due to the inadequacy of design standards for the development of land and structures, such undesirable features as overbuilding, overcrowding, nixed land use, etc., which have led to haphasard and inconsistant growth patterns, have resulted. Each of these constitutes a blighting influence, and has caused the deterioration of the nation's urban appearance. To escape from this undesirable situation, the socially and economically privileged groups have moved out to the suburbs, leaving behind the older sections of two city in a state of being socially, seconomically, politically and specially unliveble for

time. The product is the bodies of convery values in the inner sity. The terms are a continuous confilled with people free live orthings of the product and the orthings of the product and the breeding grounds for the types of measural behavior. In this way, a blighted area soon becomes the local for vice, orine, divorce, separation, robbery, theft, alcoholism, and to forth. The thole environment becomes culturally and socially so conveniented that

Shouting roaming laughter, and loud songs become the familiar features which everybody laving there seems to enjoy. Worst of all nice homes are less appreciated, At least, some negligence in maintenance is taken for granted.

This is the grain of truth in the statement that "people make slums."

To struction, poverty is the nest underlying and original cause of blight. The uneven distribution of economic opportunity keeps low sectoconomic groups depressed nesthetically, culturally, and socially in such a way that they lack in themselves a sense of responsibility towards the creation of a good environment for themselves and their neighforhood. To all this is added unplanned and inefficient governmental actions such as inadequate regulations and standards for soning and subdivisions, inadequate provision for public service facilities, and so forth. It is thus revealed that the causes of sizes or blight res intervoven with the scote-political and economic network of a given sonicity. In order to understand the causes of blight for a given containty, the planner, therefore, must analyse the social, economic, and

⁸m 12., p. 128.

^{97554.}

political conditions and trends of that community. These socio-political and economic forces are constantly changing, and their interplay sats in motion a process which definitely affects for good or bad the urban environment. It then follows that the physical development or lack of development of an urban environment is a direct result of the social, political, and economic forces that have guided the community's physical development over a prolonged period of time.

The planner's approach to the problem related to blight eradication should not, thorefore, be governed by the tendency to improve the physical aspect alone. The so-called improvement of the physical environment will only temporarily eliminate the effects of blight, not the causes. In order to permanently eliminate the causes of blight, solutions to the problem must include ways of guiding the social and economic development of alum dwellers. It is the planner's task to break through the eccentric combination of the social, political and economic forces presently prevailing in the nation's alum areas, and to reshape and organize then into harmonious, well-balanced livesble areas. Corrective actions should be guided by the humanitarian principles of improving the mind and spirit of alum dwellers along with improving their living environment.

In order to prevent the future growth of hight, an all-out effort coming from all levels of society is necessary to help alum duellers out of their dreary and oppressive life and to raise the economically, educationally, culturally, mentally, and socially. Indeed, they require complete social reducention. This implies that the Federal Covernment must reevaluate its present policy towards urban renewal, which is still today no more than obvaical clearance of alume. The policy-makers in Machington must foresee that if the present trend of urban development is allowed to continue, a larger number of communities than today's will undertake progress like urban renewal to credients blight from their cities, thus intensifying the need for a much deeper and thorough enalysis of problems attending blight. This will involve the expenditure of huge sums of money and energy, a substantial portion of which will have to be borne by the Federal Government. It is, therefore, mandatory that they concern themselves today with adequate solutions to meet such future situations. The most appropriate procedure for this would be to formulate and implement adequate programs to socially resducate millions of American slum dwellers. To eliminate alume, measures are needed that will reise the status of slum communities. 10

In the context of planning solutions for oraciosting systeting slums and blight from urban areas, a sories of factors is presented on the following pages that are generally believed to be contributing to the origin and perpetuation of blight. These factors are all interrelated by virtue of the links furnished by the social, political, and economic causes of blight. While all these factors are not found simultaneously in any given community at a given time, it is likely that individually or in combination they have significantly contributed to blight in the past, and/or are threatening to do so in the future.

It should be noted that these factors do not operate at the same stage in the development of blight for an area. Some are primary factors, i.e., they play major roles in the grouth and development of blight.

¹⁰Poter Morris, Th. Paris Seations of Erban Boneval, Journal of the American Institute of Lammers, vol. XXVIII, Number 3, August 1962, p. 180.

Plates are possible. The function is to surpetuate and intensify being some their (orology). You of the factors, however, may be either primary, or associately as lath, depending on the effectiveness involved. That is all you fattops is not differentiate one type from the other. The surfactivity was found in the intense of highly will be the end proceed of a complex interaction of factors such as the following:

- 1. Improve Land For Arrigana. Various factors may contribute to poor limit use potnames. The lack of a properly enforced soning regulation correctly elfects on once by puritting an interminiture of incommetable limit use, that contribute is a large measure to sever decline. The intermingling of industril or beavy conserved uses with residential uses frequently results in Mighted housing which in turn Mighte those areas, raking than unswitched places for industrial or commercial locations.
- 2. Prop Printer! I must of Peridential frame: In the past, some autovisions were developed according to the regulations that were valid at that time but which are now obsolete. Small lots, gridings street numbers, exceptive lot coverage—these constitute a blighting influence from the very beginning.
- Conversion of Ptrustures: Improper population densities
 resulting from poor subdivision designs or, as often happens, poor conversion of structures are among the most serious contributions to lowered

When Mudghborhood Analysis Papert for the city of Lincoln, Habrasha, pp. 7-9. The author of this paper was in charge of conducting the said study for Lincoln, where he was placed as a Summer Intern, 1966 by the Names Stat University department of Regional and Community Function.

residential desirability. Even though such conversions are of sound construction, danger exists in that the increased population will overlead the local school and park facilities, strain the capacity of municipal servicing, and result in congested streets for lack of off-street parking facilities.

- 4. The Abscree, Inedequete Formulation: or Ineffective
 Enforcements of Godes, Cultamena and Brundstions: The implementation
 of sound codes and ordinances such as building, plumbing and health codes,
 soning, twaffic, subdivision and air pollution regulations among others,
 are of vital importance in preventing or minimizing physical decay. In
 some caucs, deterioration is accelerated by the absence of necessary codes
 and ordinances or by the failure to make thes vigorous enough to deal
 with the problems for which they were intended. In other instances, poor
 enforcement of laws Minders the effectiveness of sound legislation,
- 5. <u>Orncheilding of Lond</u>: Unite intensive coverage of the land with structure, at the expense of parks and open spaces, may seem scondical at the time of development, it will prove generally costly in both human and financial terms in the long run. Tightly placed buildings, leaving little or no room for smulight and fresh air, are hardly conductive to a healthy residential environment.
- 6. Crescore the Winds Reiddings Community originating in times of housing shortage, overcrowded conditions often persist long after the demand for housing has ceased. One conditions frequently occur in obsertes structures when they are converted from single to multi-family dealings. Discriming also are estimated on overcrowding, since it greatly narrows the range of housing possibilities for the members of minority groups.

?. Chackeneous: Chackeneous with its undistrable effects, takes several forms. One form is known as "comparative" obsolescence. This results from the use of higher st idende in one residential area as compared to another, as when a new residential area with more open space and a higher level of amontties leaves an older area in a state of lowered comparative desirability.

Style and economic obsolescence also contribute to decline. Many people find it more destrable or stylink to live in a newer neighborhood with the latest style of homes, or they may prefer to move to the newer home because the expense of maintaining the older, larger home has become excessive. These areas of older homes pose serious problems since they often have no market for single family use and pressure arises for resoning to a higher density of population or to a non-residential use.

- 8. Abentes (but rivin of a rival property (Neon property owners reside in areas other than where their property investments are located, there is a likelihood that they will become uninformed or misinformed of changes that are taking place. The man who built the building took pride in it. He may have built it primarily as an investment, but it also serves as a contribution to the growth of his area. Through succeeding generations of heirs a watering-down process occurs which culminates in absentee course frequently lacking the pride of ownership. Their chief interest is the profit to be gained. Lacking such pride, absentee owners tend to neglect their property and to allow it to eventually deteriorate.
- Poor Traffic Conditions: Although all communities require
 major thoroughfares for the fact and efficient novement of traffic, the
 residences along such accord will neverthele suffer from blighting

influences, such as noise, exhaust fumes, litter and enfety hazards. Better neighborhoods are generally characterized by separation of residences from major thoroughlarus, whether by large sot backs, foliage screening, or other techniques for minimizing contest. Blighted neighborhoods on the other hand, commonly feature an unhappy mixture of narrow and unpawed streets, automobiles, and playing children.

10. Abuse of Procestr: One of the most certous factors of blight is abuse of property. There is little doubt that many declining or alum areas could have been well-maintained structurally and that deterioration has resulted primarily because of abuse.

The most prevalent type of abuse is lack of maintenance and repair.

Sometimes, failure to maintain structures is due to low investment return. The rent payments of lower income families may not be adequate for proper maintenance. In other instances, the return may be more than ample to maintain structures in good repair, but because a strong market exists for low income group bouring, the property owner can maintain a high return with only minimum maintenance. In still other cases, property owners may actually be in no financial condition to keep the structure in proper condition, or, as is found sometimes, there may be a lack of pride which results in a failure to maintain the structure properly. Whatever the reasons, lack of proper maintenance is a serious factor of blight and decline.

11. Imadequate Public Service and Facilities: All melghborhoods in a given community depend - a adequate police and fire protection, recreational and educational facilities, health services, rotue removal, streets, sours, water, and all the other essential public service functions. In any melghborhood or area where these services and

facilities are imadequate or where some are lacking, there is a lowering of the desirability of the meighborhood as a place for living, working, or doing business. A meighborhood that is neglected in terms of these service functions is the one in which decline results. Often there is a tendency to neglect areas that are already in an advanced stage of decline.

12. Banda Bendah of The Community: In general, it can be said that there is a relationship between the rate of population growth of an area and the urban shape, direction, and pattern. Moreover, the location of new housing will be determined to come degree by the rate-pattern of population increase. Another relationship exists—though not of logical necessity—between the rate of urban growth and the rate of deterioration of the residential neighborhoods. Rapid urban growth stimulates the transition of land uses within the communities and hastens the changes in the character of neighborhoods. The influx of newconers causes a shifting and filtering process that profoundly affects every neighborhood in the urban areas.

13. Nobility of Partition: Some of the urban areas' fundamental and perplexing problems stem from and are complicated by the mobility of families. The furnishing of public facilities and transportation facilities is made more difficult and expensive by the desentralization of population. Increased automobile and trunsit mobility has had deep-seated effects on older neighborhoods as growing population has sprawled to the peripheral areas around the scholished pattern of the city. These highly flexible modes of transportation have made it possible for people to apply this tendancy to discard the old in favor of the new,

before full value has been gained from the old.

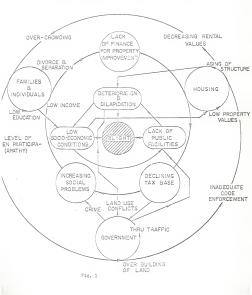
14. Institut Annur all the factors which contribute to blight, this is perhaps the most important. Apathy operates both among the occupants of a blighted meighborhood, whose despair with their lot carries them buyond the point of caring about the condition of their neighborhood, and among citizens outside the blighted area who are simply too busy to be bothered with the problems of the blighted areas. Clearly, the development of widespread concern throughout the entire community must be the first step in any attempt to abolish blight,

Such are the adverse conditions which predominantly contribute toward neighborhood deterioration and adversely affect the environment of the people. When any of the above factors or conditions occur, they constitute what can be called a blighting influence since they destroy part of the usefulness, and consequently the desirability and value, of a neighborhood for proper family living. The continued spread of physical deterioration in an area is a menace to adjacent stable neighborhoods. Since the daterioration is in part the result of an uncontrolled process of neighborhood aging and obsclescence, and in part the result of forces and trends outside the neighborhoods, it obviously becomes a community problem.

A blight cycle ¹² is presented which shows the interaction between the various physical, social, economic, and political factors as discussed in this chapter (Fig. 1). The end result of such interaction is blight.

^{12&}lt;sub>Ibid.</sub>, p. 10.

BLIGHT CYCLE



CHAPTER II

PRELIMINARY MAGRO-AMALYSIS

The terms "macro" and "mixro" are relative concepts that are differentiated only in terms of scale. Macro concept is that which deals with big and wide phonosoma. Micro concept is used to represent semething which is relatively smaller in diseasion. Their differentiation can be illustrated by regional, and city planning operating at macro and micro levels, respectively in a relative manner. While regional planning is concerned with the ordering of activities in suprawround space, it deals with an area bigger than one city, and encompasses several cities within a given region. Relative to it, city planning operates in a micro scale in that it deals with the planning of various land use activities within a single city. City planning is thus a part of regional planning, and that "micro" unit is a part of the "macro unit."

The same concept can be applied for neighborhood analysis and planning of metropolitan areas, where the macro term may be employed to conceive the city as a collection of neighborhood units. The analysis and planning vill be city-vide so as to encompass all the neighborhoods within the city limits. Contrary to it, micro term may be applied to deal with the analysis and planning for a given neighborhood within the mostropolitan area. Since any given metropolitan area will have several neighborhoods, the planner concerned may easily apply the macro and micro concepts for the neighborhood analysis for that community.

The concept of preliminary macro analysis may be applied to tentatively delineate the neighborhoods that are blighted. The analysis at this stage will not, however, permit the planner to get any recommendations as to the types of treatment that are necessary to cradicate blight from a notropolitan area. Such analysis does not identify the degree and nature of blight within the tentatively delineated areas.

Definition of Neighborhood

In any study of saighborhood analysis or planning, a planner needs to know what a neighborhood is in terms of population size, geographic area, and other physical and social characteristics. This definition of a neighborhood will help the planner work out a criterion that may be used as a basis to accept or reject the census tracts which have been established by the Eureau of Census as the seighborhoods of Standard Metropolitan Statistical Areas for planning purposes.

A neighborhood may be defined as an area within which the people share the common social activities and services which are provided to make the area a self-sufficient unit. It is thus

A physical environment in which a mother knows that her child will have no traffic streets to cross on this way to school, a school which is within easy wilking distance from home. It is an environcenter where she may obt in the duly household goods, and man of the boxes may find convenient transperation to and from its work. It is an environment in which a wall-equipped hisymount all located friends. they need the facilities of recreation for the healthy development of their midsa and spirit. 13

¹³Gallion and Eisner, <u>The Urben Pathern</u>, Princeton, New Jersey: D. Van Nostrand Company, Inc., Second Edition, 1963, p. 251.

The neighborhood unit concept as stated above attempts to create a residential neighborhood which will meet the needs of a family life, which is characterised by the following factors.

- (1) An elementary school located in the center of a neighborhood within easy walking distance—not more than half a mile. This idea of a neighborhood unit with an elementary school as its principal focus was originated by Glarence A. Ferry in 1929. He recommended that the size of a neighborhood should be that population for which one elementary school is needed. Its actual geographic area, however, depends on the standard of population density. Since this standard varies from city to city, or more precisely from one neighborhood of a given city to another, the geographic area of a neighborhood will vary to the extent that half a mile of radius is not exceeded.
- (2) A centrally located playground-park, prefurably attached to the school as a single unit. A community center associated with the facility of a library and a neighborhood club may also be located adjacent to this school-park complex.
- (3) An internal street system of local and collector streets on which through traffic should not be permitted. Major through traffic arteries preferably should serve as neighborhood boundaries.
- (4) A neighborhood shopping district adequate to serve the neighborhood population located at the intersection of the major arteries.

From the above features, it is evident that the neighborhood concept involves the application of "multing distance" as a planning principle. While designing a new c ..., however, it is possible to depict and create ideal neighborhoods. Eve in relity a meighborhood

is not so precisely dolumed. There are reasons for this lack of definition. Nost of the American metropolitan areas are contury old cities. Because their original layout was made in the mid-light century or earlier, they did not get the benefit of planning theories or design which were developed at a much later date. Obviously, Clarence Perry's neighborhood unit design formulated in the late 1920's cannot be expected to fit the residential areas developed about 75 years before his time.

It is, therefore, true that in the case of many cities of this country, large or small, the existing meighborhoods are not complete, and deviate in many ways from the ideal ones. 14 The ideal picture for a neighborhood unit as visualized by Perry is, however, a valid theory, and can be best applied to now subdivision developments that are being built around the cities of this country. These new areas should be planned and developed in such a way that the possibilities of the emergence of future blight in these areas are nipped for ever. Achieving the objective of creating well-valanced, self-contained neighborhoods demands effort from all those who are concerned with the residential subdivision developments. Private developers and local governments have equally important roles to play in achieving this goal.

While subdividing land for residential use, the developers should keep the neighborhood concept in mind both as a way of making profit, and as a way of aiding in the sound growth of their city. The local decision

[&]quot;Uon an essignment from Prof. Depose 7. Modrew (Kunsas State University), teaching the course firth 630 day Hanning Leb., fell 1966, the author of this paper inde in variation of Normy's ad bhorhood unit theory in torms of the stable. I will be present day fitting and ay lifed the concept on an whist yet leaves of the city of Manhatzan, Manhazzan, Ma

makers should design as a crows thair soming and subdivision regulations and standards in such a way that the eventual form of the nowly developed residential areas will debrace and coincide with the unit scheme formulated by Perry. They should also keep in mind that the objective of having a bulanced community as suggested by the principles of the meighborhood unit scheme, will be basic if a few ownerships or, more precisely, if one concerning of a subdivision is involved. However, this does not mean that the possibility of developing a complete meighborhood is alia, even though there may be a number of small subdivisions under separate ownership. In such events, the local government's subdivision standards and regulations should be set up carefully so that the end result is not lost.

Flowers, though it has been emphasized that the new areas are better suited for the development of complete neighborhoods, this concept can also be applied to the replanning of the older sections of any given city. As many urban communities in this country are gradually becoming involved in urban renewal, they are clearing and renewing the older areas which are dilapidated, deteriorated, and obsolvte. It is possible, therefore, to guide the redevelopment of these older sections in such a vay that the renewed and rejuvenised neighborhoods will fit the ideal pictures of the balanced neighborhoods. By careful planning in terms of the application of adequate nodern standards for the various spatial elements to be present in an ideal neighborhood, the older bighted sections of a matropolis can be redeveloped to eventually form the desired relations chough thoses, actuals, shops, recreations, and working places in a given community.

Delineation of Many Morhoods

The delimention of meighborhoods is the first step of a planner responsible for conducting the meighborhood analysis study for a metropolitan community. In this section, an attempt is made to suggest how the meighborhoods are delimented, and how valid are the communitaries as meighborhood units used by the Federal Bureau of Colour for the purpose of meighborhood analysis and planning for a given metropolitan crea.

Any metropolitan occumuity is a dynamic and mature city. The delineation of existing neighborhoods as, therefore, no doubt a complicated task. As matter of fact, there is no perfect solution to it. In whatever way the delineation may be done, there will always be some residential areas left over which have to be more or less arbitrarily attached to an otherwise complete unit. There are always certain areas which are so fragmented by traffic and various land uses that there is little neighborhood identification.

However, for the determination of boundaries of neighborhoods within a given metropolitan area, the following criteria may be employed.

- Natural boundaries—such as stresms, rivers, or abrupt changes in topography.
 - (2) Man-made boundaries—such as major thoroughfares, railroads, and major non-residential land uses.
 - (3) Zoning district boundaries.
- (4) The identification of similar physical, economic, social or other characteri, was which tend to make an area a single complete orbity.

 The committee one of the service area of a single rajor mobile facility used as an elementry school or community canter.

Committee Tracts

Versus treats are used areas into which personlitan areas have been Barded for statistical purposes. This concept of census treats was first originated by Dr. Valter Laidlev in New York City in 1966. This concept was applied by the Durvau of Consus for 8 different cities of the United States in 1940. The figure totaled 60 cities in 1940, and 280 in 1960. The contract of the United States in 1940.

That bundaries for matropolitan areas of this country were a blacked by the Bureau of Census in collaboration with a focal community for each estropoliten area and were generally designed to be rularityly but, any with respect to population characteristics, econosic status, and laying conditions. The average tract has about 4,000 population,100

The above paragraph reveals that a census tract almost satisfies the requirements of a complete neighborhood. From the definition of a multiphorhood in the pureoding section, it is clear that a neighborhood has to be uniform in terms of population characteristics, income status, and living conditions. These elements are mostly present in census tracts deliberate by the Europeau of Consus. This implies that "a census tract is a neighborhood of a matropolitan area" is an acceptable properation. Moreover, the census tracts have the greatest advantage in that they furnish housing and population data which are most essential

^{1960,} U.S. Supermore of Courses, Fig. 1 Apport PhG (1) - 79, p. 1.

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for an in of a length of advantage in an interpolate

The 1000 km one final and an in a constation with bouring by consustances in and trace as rear and collect, indirect, foreign stock and sensing of orders, the market bouring stock and femilies, exhibit devolution, totaled whose properties of worker, place of work, companyers stoken, comparison, industry, class of worker, place of work, means of transport when to word, and so forth. The data on housing are not tenure of housing units, color of occupants, vacancy rates, number of persons in the unit persons per room, year structure built, basement in structure, condition of plumbing, heating equipment, value of property, content valve, minibur of illipplicated housing units, deteriorated and asserterating units, and so forth.

Without elaborating much, it will probably be agreed that the conducting of a neighborhood analysis study is practically impossible without much of the information as stated above. 17 Due to this simple most incorrance of data availability factor, the planner, however, alsessarily has to take a consust treat for a neighborhood-unit. If he thinks otherwise, and proposes to delineate neighborhoods in a different way, he can parkings do so; but the amount of time and funds available to full schapes will not permit him to attempt a separate delineation of mighlorhoods. Purkher, is is highly doubtful if the community can afford sufficient time and fundsial expenditure to allow him to do a manuare neighborhood delineation study.

 $^{^{17} \}rm This$ fact will be revuled in a more explicit manner in the cent chapter of this paper.

It may, therefore, be suggested that for all practical purposes of neighborhood analysis, the census tracts will surve the purpose without similar less of securacy. It has been observed that in terms of securacity area, and other criteria employed to delineate neighborhoods, the census tracts resemble neighborhoods of matropolitan areas quite accurately, though not perfectly. It is, therefore, proposed that the planner accept each census tract for each neighborhood, and from now or wherever in this paper the term "neighborhood" as used, it will mean a census tract and vice versa.

Tentative Delineation of Blighted Neighborhoods

In order to develop a program for eradicating blight, the first task for a given community is to know where blight is. This section of the chapter is devoted to describing certain techniques by which blighted areas in a metropolitan area can be located from the available statistical information. This location of blight will be tentative. In the following chapters it will be deconstruted how the final location is made and what treatments are necessary for different areas having varied degree and nature of blight.

In taking the first stop in delineating neighborhoods that are blighted, the planner is required to very out a series of indices which will indicate the areas that are blighted. The following indices are suggested for this purpose.

- (1) Percent of unempl. the persons in the civilian labor force.
- (2) Parcent of pursons 14 to 17 years old not enrolled in school.
- (3) Percent of unshilled sales (laborers and service workers) in the civilian labor force.

- (4) Agreent of persons received one age assistance and aid to families with dependent children.
- (5) Percent of cligible registered males rejected from military service.
- (6) Percent of males 25 years old and over with less than a third grade school education.
- (7) Percent of children under 18 years of age not living with both parents.
- (S) Percent of housing units dilapidated, and deteriorating.
- (9) Percent of housing units with 1.01 or more persons per room.
- (10) Percent of housing units lacking some or all plumbing facilities.

It will be agreed that each of the above indices is a prominent indicator of blight. However, it will be noticed that except for the last three, all the indices are directly or indirectly related to the social and secondic aspects of the people living in a neighborhood. It also may have been observed in the previous chapter, which was devoted to a detailed enumeration of the causes of blight, that the original causes of blight in a given community ove their origin to the past social, political, and soccomic trends of that community. The above indices are suggested, keeping this basic fact in mind. Three physical factors have also been included, because the continued presence of such physical factors in a given neighborhood encourages the further socioecomound deterioration of the people. This deterioration in turn hastens the process of physical deterioration and intensifies the growth of blight.

After the neighborhood indices have beed determined, the next step of the planner as to collect date on these indices. From the discussion on census tracts in the preceding section, it is evident that data for these indices will be available from the U.S. bureau of Census sources. Here it is worth mentioning that the Bureau of Census sources. Here it is worth mentioning that the Bureau of Census publishes separate "census tract statistics" on housing and population for each standard metropolitan statistical area in the United States. The local planning agency must have such copies containing information on their community by census truct. After data have been collected, the next step will be to process and summarise them in a table. The following table illustrates how this can be done.

TABLE 1

Neighborhoods or Consus tracts	:	Indices 1	1	to 2	10	8.0	deter 3	nined	in	the		page 10
1												
2												
n-1												
n												
Total		100,5	1	.00%		10	10%				1	00%

However, from the above table the planner cannot identify the neighborhoods that are blight 1. H. is required to devise some way to form a basis for identifying blight. In a device, It is suggested

that the marking technique be applied at tails stare. Educe he is not aiming to identify the ungree and nature of hilght at this stare, he need not apply the weighting technique here. Ranking technique may be applied in two ways.

- (1) The neighborhood scoring the highest percent on a given index say be ranked 1, the neighborhood scoring most highest percent on the same index ranked 2, and so forth, so that the neighborhood scoring lowest percent on the same index will be ranked n . This implies that the higher the rank of a neighborhood on a given index, the more is the blight contained by that neighborhood in terms of that given index.
- (2) Under the second technique, the lower the percent scored by a neighborhood on a given index, the higher is the rank held by that neighborhood on that index. This means the higher the rank of a neighborhood on a given index, the less is the blight contained by that neighborhood in terms of that given index. In either case, the ranks of a given neighborhood on all the indices will be added to desconstrate the presence of highest or least blight. This is illustrated by Table 2 in which hypothetical data on two indices are used for a hypothetical motropolitum area having a number of census tracts or neighborhoods.

Columns 9 and 11 in Table 2 reveal that neighborhoods 2 and n have highest and least blight respectively, regardless of whether the runking is done according to the first or second technique, 18

¹⁸ for the purpose of illustrating how ranking techniques may be applied, only two unbides have been much. In actual practice, however, number of incloss will be 10, and their way of application will remain the same as in Table 2.

SATATE

0	ployed lab	Lampleyed labor force (index 1)	:		Dilapicat.	Milepicate to : (Index 2) :		Totel s (two 1	ndicos)	
01.80	Renk tech- nique I	A Renk tech- nique II		W. PK	Renk tech- nique I	Reak tech- nique II	Sum of series	Final rank tech-	Final Sum of rank ranks toch- tech-	Finsi rank tech- nique 11
10	8	63		18	-	7	7	CV.	9	03
8	r	7		15	C)	~	m		4	e
23	ev.	8		ı	4	J	9	ω.	77	33
N	7	1		7	3		4	7	6	7

The 1 may, which is the change from Table 2 as being oil Min. In 1814 of the change of practice to clear-out line exists between the products that are blighted and not blighted. Arothretion under the time of incumstances is almost inevitable. Extraction under the change of the chan

(1) No. of disminated and disteriorating Fousing Units Total no. of Housing Units in the city

or
$$\frac{n}{b} = \frac{n}{n}$$
 (1)

All the terms in A are known except bm, when bm (no. of blighted noighborhoods) can be computed.

(2) Areas of mixed land your in the city (in acres)
fortal area of the city (in acres)

$$o_{2^{n}} = \frac{r_{1}^{n}}{\sqrt{2}} = \frac{r_{1}^{n}}{n}$$
 (B)

All was a find a mexcept bm,

- (3) No. of finites in the ty of and than 33,000 Total no. of families in the city
 - No. of blighted reighborhoods
 Total no. of neighborhoods in the city

All terms in C being known, bn can be calculated.

(4) Number of blighted neighborhoods in the city $= \frac{bn (in A) + bn (in B) + bn (in C)}{3}.$

The criteria as suggested above for determining the number of blighted neighborhoods for a given city should not, however, be applied without reservation. Since each city is unique in terms of its land use pattern, physical characteristics, and nature and degree of blight, these criteria cannot and should not be used in an exclusive fashion. They may be used in a generalized way to substantiate the information already acquired by the planner through his personal acquaintance with the city's blighted areas. He must know where the blighted pockets in the city are and what neighborhoods or census tracts they belong to. Then, applying the above criteria if he finds that the calculated result coincides with his personal knowledge and belief, he is in a better and safer situation in terms of the .couracy of his analysis, for he is certain that he is not misleading the community as to the measurement and analysis of its blight. The nature and extent of the corrective courses of action for conficiting the community's blight will depend on the accuracy of the planner's study.

In whatever way we planner expressions determining the number of blighted meighborhoods, the Hiramation gathered and presented in Table 2 is extremely important because he is supposed to statistically prove where blight is. Assuming that he has determined the number of blighted meighborhoods from column 9 or 11 in Table 2 and that the city has a total number of 40 meighborhoods out of which 6 are blighted, his next step is to represent those blighted meighborhoods on a city map of suitable scale. Assuming that neighborhoods 19, 18, 7, 20, 17, and 6 are blighted, this can be illustrated as follows (Table 9).

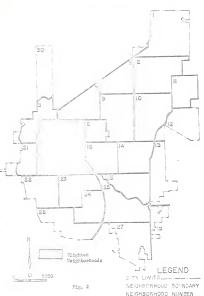
TABLE 3

Rank (from column 9 or 11 of Table 2)	1	2	3	4	5	6
Blighted neighborhoods	19	18	7	20	17	6

The tentative delineation of the above blighted neighborhoods is shown on a hypothetical city map (see Fig. 2).

This delineation of blighted areas is, however, purely tentative and does not show the intensity and nature of blight. Despite the tentativeness of the delineation, the planner is required to check and verify the accuracy of this delineation because the precision and accuracy of the whole study depends on the accuracy of the work involved at each stage. This enables a given community to save both time and funds in the accomplishment of a study conducted for its present and future plans and programs. There are, however, two ways of checking





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- UT Streetheatte
 - (I) Chuck-in-field.

Under the check-in-clilet technique, the planner may verify the delineation of blighted areas from the following:

- (a) Master plan. A separate chapter of a master plan is generally devoted to the "mossing condition" in the city. The master plan locates the substandard areas in the city. Tentative delineation of highest neighborhoods is comparable and verifiable with the master plan formation.
- (b) Zoning district map. Mixed land uses can be identified from such a map. Areas of mixed activities are likely to be compatible with Dishted areas.
 - (c) Public facilities.
- (i) Area of absence or insdequacy of vater and sever. This information is evailable from the public works department of the local government. Identify such areas on vater and sever maps, and compare with bighted areas delineated.
- (ii) Unprod streets. Such information may be obtained from this traffic angineering department of the local government. Identify such arous on the street map of the city, and compare with the blighted areas delineated in Figure 2.
- (iii) Parks and recreation. Areas deficient in such facilities are likely to be blighted. Obtain a parks map from the local parks and recreation department and shock with the creas identified as blighted in Figure 2.

Gree showking with the information available from the various departments within the local government, the planner's next step is to go out and compare the information with the actual situation in the field. A windshield survey from a slow-nowing automobile will serve the purpose. At this stage, the most important index the planner should use for calling a neighborhood blighted is the quality of housing in terms of dilapidation and deterioration. Since most of the data he has used comes from the Cansus materials for delineating the areas of blight, this field check is extremely necessary. Data received from the Consus may not be up to date; this is particularly true if the period of analysis progresses towards the latter half of the desential date.

Rosever, the planner during the windshield survey should check not only the areas he has delinested as blighted, but also all the neighborhoods that were built before the 1930's, or, more precisely, before the 1940's. Such a check is only realistic on his part since areas other than he has delineated might also be blighted. In that case he should apply his own judgment as to whether or not such areas should be included in the areas originally delineated in the office, relying on his own observation to determine if such areas have the same degree of blight as is present in the delineated area.

After the tentative delineation of blighted areas has been done based on the statistical information concerning the community, and has been duly checked, verified, and modified, the planner then moves to the most phase of the analysis as it is described in the following charter.

CHAPTER III

NEIGHBURGOOD MICRO-ANALYSIS

The preceding chapter was devoted to describing certain techniques as to how blighted areas in a metropolitan area can be delineated on a tentative basis. It has been observed that Neighberhoods 6, 7, 18, 19, 20, and 17 of the hypothetical city are blighted. But the degree and nature of blight in each of these areas were not known. The purpose of this chapter is, therefore, to describe and enumerate some techniques by which the degree and nature of blight can be determined for each blighted area. It is essential that these be identified, for unless they are, the types of treatment necessary for blight eradication cannot be correctly prescribed.

Determination of Neighborhood Indices

In identifying the nature and degree of blight, the first step of the planner is to determine a series of neighborhood indices. Each of these indices will indicate the degree of deterioration for each neighborhood in terms of that given index. In the following are suggested a series of indices which the planner may select, adopt, and employ for the neighborhood analysis of his city. However, since the nature of deterioration is possibly different for different cities, the planner concerned will doubt what indices are suitable for his city, and select them accordingly. The indices enumerated below should be applicable to

- a slow, all, of algorithm Total
 - A completies Chossies sides
 - T. There population a med mediaherhood 19
 - 2. To a many of smilles in a neighborhood 20
 - 3. Your mester of nonwhite population
 - of population
 - 5. Density of population per adr
 - 5. Population changes (from 19xx 19yy)
 - E Conferenceie Characteristics:
 - 7. Low family income
 - Low property values
 - 9. Low level of education
 - 10. Employed unemployed ratio
 - 22 Testiones of major original
 - 10 Invenila offenders
 - 15. Illegitimate birt
 - TA* THIRD CONTROL
 - 15. Venereal disease
 - 16. Vorking mother

 - 19. Dilapidated housing units
 - 20. Deteriorating housing thits

^{19, 20} Those are no " - the factors, but they will be useful in not reinterior of the Latter and degree of neighborhood blight.

- All cousing units lacking all or some plumbing facilities
- 22. Aged housing
 - 23. Cythoor plumbings.
- D. Housing Occupancy Characteristics:
 - 24. Renter occupied housing units
 - 25. Vacant housing units
 - 26. Overcrowded housing units.
- E. Traffic and Street Characteristics:
 - 27. Unpaved street
 - 28. Narrow streets
 - 29. Pedestrian traffic accidents
 - 30. Traffic volume
 - 31. Through traffic
 - 32. Railroads
 - 33. Deteriorated and inadequate sidewalks.
- F. Neighborhood Pacilities and Services:
 - 34. Lack of sanitary sewers
 - 35. Lack of water supply
 - 36. Lack of parks and recreation
 - 37. Lack of school facilities (elementary)
 - 38. Fire protection
 - 39. Police protection
 - 40. Street lighting.
- It will be noticed from a glame, at the above indices that they are all based on social, economic, or physical aspects of neighborhood living. The rejectity of the indices are, however, physical indices.

It has been stated elsewhere in this paper that physical blight is the result (effect) of the social, political, and occomed factors that persisted in a community in the past. However, since the effect exists, it meeds to be eliminated first, because, effect in turn generates further causes which again tend to accumulate further effects; in this way the cause-affect operation of blight moves in a cyclical process resulting in the intensification of blight moves in a cyclical process resulting in the intensification of blight in urban areas. This simplis the planner to include the physical blight, beaver, must be accompanied by the attempts to eliminate socioecomonic and cultural deterforactions of neighborhoods. In this way, the corrective actions can eliminate both the cause and effect of blight, ensuring the creation and development of a healthy neighborhood unities should be determined with this purpose in mind—the elimination of both cause and effect.

After the meighborhood indices have been determined, the next step involved is the collection of data on the selected indices. Availability and extensive use of data is a factor which governs to a significant extent the success and accuracy of a study on blight analysis for a given community. The planner should remember that the corrective courses of action must be based on the analysis of facts, figures, and information concerning the nature and intensity of blight. The more information be our collect and analyse, the more precise and objective will be his solution. Ettiout a thorough analysis on all aspects of blight, his solution to evadicate them is likely to be unsound, resulting in a significant deviation from achieving the goals and objectives of the members. The parameter, resident to collect and analyze to the U.S. switch we know any parameter. Sowever, much of the data on the chains associate that each will be conclude from the following source:

Tonat. Tracks Junication for the Given Metropolitan Area

The Level to mana, Agency

The Local Buille Vories Departmen.

The Traffic Detacting Departme

The Building Daparwien

The Local Bousi . -ity

The Local Health Depurtment

The Parks and Rogrostion Department

The State Health Departmen

The State Labor and Welfare Department

2110 20002 2210 Popul mone

The Local Police Department

The Local School heard

The County Tax .. ssessment Department.

Determination of the Degree and Nature of Blight

After data on the selected indices have been collected, the next exem will be to summarize them in the way as shown by the following table (Table 4).

SARIE A

Woighbor-	Telber (qu	attribution .			14 g 22	uali	tative)
hoods21	1			38	3	9	4	0
	No. %	30. 7 :	: No.	. 5	No.	Z.	No.	%
6								
7								
17								
18								
19								

Table 4 indicates that data on each index are to be summarized and arranged in two ways, both for quantitative and qualitative analysis. The reason for presenting data in these two ways will be enumerated in the following section.

After data have been processed and summarised in the way as shown in Table 4, the next step of the planner involves the davising of some ways by which he may form a basis or scale for the measurement of blight in terms of its dugree and nature for each blighted area. This is one of the most difficult and complicated phases of the entire study of meighborhood analysis for a notropolitan community. However, two ways

ZlWeighborhoods tentatively considered blighted as revealed from the Preliminary Macro-inalysis (see Fig. 2).

²²In this hypothetical case x = 40, see pp. 46-47.

are suggested which the planner may employ to do this.

- (1) Ranking technique
- (2) Weighting technique.

<u>Pansing Technique</u>. The underlying concept of ranking technique has been explained in the previous chapter where its application has been demonstrated to tentatively delineate blighted areas in a city. In measuring the degree and nature of blight, the 'principle' stated therein remains basically the same. In two possible ways as it may be applied, the end result, however, will remain the same in either case. 23 But unlike the previous case, here the ranking technique is suggested to be applied for measuring both the quantitative and qualitative degree of blight. The application of ranking technique in the measurement of blight is illustrated in Table 5. 24

The table is self-explanatory. The reason for attempting to measure both the qualitative and quantitative degree of blight is that qualitative-wise (percent-wise) blight measurement alone is not realistic. It is not realistic because qualitative degree does not always represent the quantitative degree of blight. For instance, on the low income index (see columns 5, 6, 7, and 8, Table 5), 47 percent of the total families of Neighborhood 13 have an income of less than \$3,000 a year—the highest figure qualitatively compared to the other five neighborhoods

 $^{^{23}}$ This fact was revealed in the previous chapter, see Table 2, Columns 9 and 11, p. 36.

^{24.} To illustrate this, 6 sample indices were taken from 6 groups of indices A, B, , namely, 1, nombhits population, 2, low level of income, 3, dilapidated housing units, 4, overcrowded housing units, 5, relironds, and 6, lack of parks and recreation.

TABLE 5. Application of Ranking Technique 25

Inc.	(1)	MCDW (C)	Kenwarte Population	: (3)	. Low Family	Family	the 3,00	(0)
Port.	. No. of nonwhite pop.	Rank	PE	Rank:	Rank: families	Rank	% = Solumn 5 × 100 Fot. Mhood families	Permit.
9	157	. 10	20	9	160	9	35	7
1,	1,159	ï	44	П	358	П	43	~
17	180	*	67	7	195	7	27	9
101	337	3	69	2	286	8	47	m
19	470	N	61	3	180	5	27/	3
20	46	9	36	2	327	2	29	10

25 Fypothetical data used.

TABLE 5. (continued)

Indices :		Dilapi	Dilapidated Housing Units			Crererow	Crercrowded Housing Units	
••	(6) :	(10)	(11)	(12)	(12); (13)		(15)	(91)
Neighbor -: Total hood : writs	re: Todal : vmits	Rank	% = Colum 9 x 100	1	Rank : Number	Rank	% = 0010mn 13 × 100	Service Control
9	94	77	19	8	51	9	75	m
7	1.98	8	77	٦	1//4	П	97	8
17	0,7	5	13	5	7/8	2	47	7
118	336	1	775	N	66	77	51	7
1.9	184	~	19	m	114	CV.	37	2
20	79	9	14	77	113	m	36	9

TABLE 5. (continued)

	(23) (24)	P. × 1000 Pents	1	7	W	Ø	20	7
Parks and Recreations)	Rate = Col. 21 × 1000	0.65	1,10	J.00	0.93	1,10	7 2 5
Park	(22)	Rank	ы	7	m	2	7	v
	(20) : (21)	Acres for parks	77	€	7	9	100	o
••	(20);	Rank :	1	$^{\sim}$	7	~	9	2
Railroad	(17) (13) (19)	Valghbor-: Aeros for Rank $\% = \underline{001, 17}$ × 100 Rank : Aeros for Lood : Riroad : parks acres	37	25	6	12	7	100
-	(18)	Ronk	J	cv	4	3	9	2
and and a second	(1.7)	Acres for R'road	130	96	37	45	56	35
India : :		eighbor-:	9	1,	17	18	19	20

(30) Family 10	77	1	9	62	23	٧
Early for Colls, 25 at 127	7/7	23	55	27	75	
Parks 50 Col. 27	67	es.	10	1	7	,
(PV)	21	12	26	11	02	
(525) Reletive Ranks for Gol. 25	7	1	٠,	CI.	3	
(29) 'Tot 1 f " by gure 41y = Cols, 2, 6, 10, 14, 18, 6 22	23	11	&	16	22	
	9	ţ	11	13	13	

under unalysis. But, occasioning the number of families quantitatively, Neighborhood? has the highest figure (35%)—the highest number compared to the other five neighborhoods. Thus, it is proven that qualitatively though one neighborhood has more blight on a given index, it may not have so quantitatively on the same index. Therefore, the planner will be justified in taking into consideration both the aspects for the determination of the depth of overall problems in a given neighborhood. This is expected to make his analysis more precise and ascurate in determining the degree and nature of blight in a blighted neighborhood.

Column 30 of Table 5 reveals the fact that Neighborhood 7 has the highest degree of Niight—the area most deteriorated in the hypothetical city. Its degree and nature of blight are identified as follows in terms of the indices used:

- : 77% of its population are nonwhite
- : 43% of its families have an annual income less than \$3,000
- : 45% of its housing units are dilapidated--possibly unfit for human babitation
- : 46% of its total housing structures have 1.01+ persons living per room--overgrouded
- : 25% of its total area is occupied by railroads and its r.o.w.
- : 1.10 acres of parks are available for its per 1,000 population.

 Similarly, degree and nature of blight can be identified for all
 the runnining neighborhoods in terms of the indices used. 26

²⁵ or the surces of illustrating how this technique can be used, only 6 indices have will consider. In actual practice, however, the planner concerned will consider all the indices from 1, 2, 3,....x.
The procedure desconstrated will remain the same.

Table 5 the demonstrates Now palgology on blight can be identified both in terms of the degree and nature by the application of ranking technique. The greatest advantage of this technique in the identification of blight-distancity lies in the simplicity of the technique result. But it has limitations too. The fundamental weakness of the ranking technique is that it assumes all the indices are equal in contributing to blight development in urban areas—an assumption not sufficiently realistic and true.

The second disadvantage lies in the fact that it does not take into account the difference of the levels of score by the competing anotherhoods on a given index. This can be illustrated by an example (consider the index lev income, Table 5, columns 5 and 6):

Neighborhoods	: No.	of families	: Rank
20		327	2
18		286	3
17		195	4

Difference between ranks 2 and 3 = 327 - 286

= 41 = a (say)

Difference between ranks 3 and 4 = 286 - 195

= 91 = b (say)

The application of ranking technique involves the assumption $\kappa=0$, which is only incidentally, but not generally, true.

Communications unisoness present in the ranking technique, the glamme must try the alternative. In the next section of this chapter an alternative technique is discussed, illustrating its application for determining the degree and nature of blight in a given notehborhood.

Weighting Technique. The underlying 'principle' of the weighting technique is that all the indices are not equal in their contribution to blight development in urban areas. In the first chapter of this study, it was observed that some of the factors of blight are primary, and that some are secondary. The primary factors play the predominent role in the growth of blight. Thus, such factors must carry relatively more weight in determining the total magnitude of blight. It is also apparent that the original causes of blight are more socioeconomic than physical. However, at this point, two concepts may be introduced to differentiate between the elimination of physical blight and the improvement of the sociceconomic and cultural elements of the slum dwellers. Under a short term measure, a given community may undertake actions to eradicate physical blight, while considering the long term measure for blight eradications community actions should be guided by attempts to ungrade the culture of the people living in blighted and slum areas. While assigning weights to the different indices, the planner needs to keep these two distinct concepts in mind.

In the following section, an attempt is made to demonstrate how the planner will easign weights to the various indices to determine the degree of blight in a given neighborhood. However, the purpose here is not to easign actual veights to all the factors of blight but to Illustrate has the intensity of hight can be contained and nonsured by amplying the weighting technique. This method is a companion to the ranking technique in that the results obtained by the latter can be command and verified by the weighting technique. Accordingly, all those six indices are considered; the arrangement of data on the indices is basically the same as shown in Table 5.

To assign "weights" to the various indices, the first step of the planner is to classify the indices. This may be done as suggested in Table 6.

TABLE 6

	Indices	Category		Relation	to	blight as
	20000	ogradiotà	_	Cause		Effect
1	Monwhite Population	Social		x		
2	Lowincome (less than $03,000/yr.)$	Economic		x		
3	Dilapidated Housing Units	Physical				x
4	Overerowding Housing Units	Physical				×
5	Railroads	Physical				×
6	Parks and Recreation	Physical				×

After the indices have been classified, as in Table 6, the mext step is to assign "weights" to them. In assigning weights, the planner may assume that the given community is willing to adopt both short and long term politices in its program to cradicate blight, ²⁷ and that it

²⁷ Short term policy is to eliminate physical blight, long term policy is to improve the sociocommic status of the people of slum areas.

will see equal frontance to math solicion. Their willingness to secopt these fears will show out they countder the elimination of both effect and cause to be equally important. In other words, weights assigned to the physical indices will be equal to those assigned to sentencements indices.

According to the above pronosition, 50 percent of the weights will be assigned to the indices 3, 4, 5, and 6 (see Table 6), and the remaining 50 percent to 1 and 2. Now, among the socioeconomic indices, since low income of families is more responsible for the development of blight, it should get more weight. 80 Let it be assigned with 30, leaving the remaining 20 for the index nomehits population. It is important to note here that the nomehits population itself is not the cause of blight. To say that it is, is to say that the nomehits population should be eliminated from the city. The real causes for the development and operation of urban blight are the socioeconomic elements present in the nomehits population. The term "nomehits population" is thus used here as a label for representing the growth of blight.

About how the remaining weights can be distributed to the four physical indices, the planner will rely on his our judgment. It is, however, generally agreed that dispidation of housing will carry more weight, for this is physically more obvious to the people as being the most underivable element in terms of environmental deterioration. The most index in order of importance is possibly the overcrowling within the structures which rapidly deteriorates the structure once the blight has begun to devolve. Estween railroad and lack of parks, railroad is

²⁸ roverty is the fundame. I cause of blight—as stated in the discussion of causes of blight, Chapter I.

valined to to new associate to memory blight. Sendershe will these superus in home of their role of sentetburing to and perreturning Night, we should in this hypothetical case may be assigned as elson in Table 7.

SARLE S

Indices category	: Noights :	Indices	Weights
Socioeconomic	50	Nonwhite Population Lowincome	20 30
Physical	50	Dilapidated Housing Units Overcrowded Housing Units Railroad Parks and Recreation	20 15 10 5
Total	100		100

After the weights have been distributed to all the indices in accordance with their relative importance in causing and neurishing blight, the next step is to apply these assigned weights to the data in the indices—to form a basis for determining the intensity of blight in each blighted area. This is illustrated in Table 8.

Table 8 illustrates the application of weighting technique in the determination of the degree and nature of blight in each of the six neighborhoods tentatively labelled as blighted from the city-wide mear-analysis. Column 37 of Table 8 shows the degree of blight measured from the six indices colocated for the purpose of illustration. Column 1, 4, 7, 10, 15, 16, 19, 22, 25, 28, 31, and 34 identify the nature of blight in each meighborhood.

TARKS. Application of wajering technique

			(3)	(/)	(5)	(52)
1000	Tout	% of total nonwhite per.	Weight search ly competing whoods = Col. 2 x 20	٠ .	f of total, in Col. 4	Mejout so med = Col. T × 20
9	157	6.50	1,31	20	6.50	1,30
7	11.59	48.30	93*6	77	25,00	5.011
1.7	180	7.50	1.50	67	15.90	3.18
23	337	14.00	2.80	65	21,10	4.22
19	7.00	19,50	3.90	19	19.80	3.08
20	46	4.05	0.	36	11.00	2,38
To. 1	2400	100.00	20	308	100,00	20

 $^{\rm 29}{\rm Data}$ used are same as in ranking technique, Table 5.

TABLE 8. (continued)

Indices	**	* managina processors not	Lowincome (weight = 30)	-ht = 30)		
		Number of Familias	lies	: Percent	of Tetal Peighb	Percent of Total Petribborhood F 11400
	(4)	(8)	(6)	(10)	(11)	(12)
Neighbor- hood	. Nu.ber	% of total	Score = Col. 8 × 30	: Percent	f of total	Score = Col. 11 × 3:
9	160	10,60	3.18	35	15.69	4.70
7	358	23.77	7.13	73	19.28	5.78
17	195	12.95	3,88	27	12.10	3.63
18	286	18,99	5.69	1.47	21.07	6.32
19	160	11.95	3,58	75	18,83	.65
20	327	21.71	6.51	56	13.00	3.90
Tetal	1506	100.00	30	223	100.00	30

TABLE 8. (continued)

in the second	1.12.	Purber of Dilandsted For	Dillshidated Housing Units (veight = 20) undated H. U.	s (weight = 2)) f fotal Mejabbox	above the T
••	: (13)	(14)	(15)	(16)	(16) (17) (18)	(15)
Neighta:	Musber	% of total in Col. 13	Score = Col. 14 x 20	Percent	% of total in Col. 16	Score = 301. 17 × 20
9	7/6	8,21	1.64	19	12,50	2.50
4	198	21.40	4.28	45	29,60	5.92
17	29	7.24	1.44	13	8,55	1.71
18	336	36.32	7.26	77	27.63	5.52
19	184	19,89	3.98	19	12,50	2,50
20	779	6.91	1.38	14	9.21	1.84
Total	925	100,00	20	152	100,00	20

Think fit (combined)

1 20							
Seyn 560, 53 v 15	2.4	2.53	25	3.0	2,35	2.73	15
% of total	16,60	18.18	16.20	20,15	14,62	14,23	100,00
Score : % of total % of total = Col. 20 × 15 : p'') 'H. U. in Col. 22	4.2	777	17	51	37	36	253
Score = Col. 20 × 15	1.26	3.57	2,08	2.45	2,82	2,80	3.5
Number 5 of total Score in Col. 19 = Col. 20	8,43	23.80	13,88	16,36	18.8%	18,67	100,00
Nunber	15	1777	8%	66	117	113	909
Modglibor-	9	4	17	18	19	30	Total

TABLE 8, (continued)

Just Louis			Radironds (weight = 10)	(olt = 10)		
	\$ 40,00	Occurred by 2	Aoves Counted by Railroad r.o.w.	Percont of	Persont of total Paped Area in Acres	trea in Acres
	(25)	(56)	(27)	(28)	(83)	(9
forghbor	: Aereo	% of total	Score M Gol. 26 x 10	% of Kilood	% of total	Score an ello
9	130	34,95	3.49	37	37.15	3,11
L-	96	25.80	2,58	25	25, 51	2,55
7.7	37	76.6	0.99	6	9,18	20,00
18	45	12,09	1.20	1.2	12 %	1,32
1.9	53	7.79	0.78	4	7.14	0.72
20	35	07*6	0.95	10	8,16	0.81
Total.	372	100,00	10	98	100.00	10

TARLE 8. (continued)

		Acres of Parks		AGY OF BOX 3 C	OO THEORY MONTH	
	(31)		(33) 1	(3%)	(35)	
teighbor-	Aores	% of total		Acres/1,000	% of total	George
9	77	9,52	1.07	0.65	10,14	0,500
4	100	19.0%	0.13	1,10	17,16	0.77
17	7	16,67	68*0	1,00	15.60	0.86
18	9	14,28	0.95	0.98	15.29	0.81
179	60	19,0%	0,13	1,10	17,16	0.74
30	6	21.40	0.41	1.25	19,50	0.78
Total	77	100,00	5	6.41	100,00	150

TANK & Constitution

less ber	11.11 Total Secret Col. 12, 15, 18, 21, 24, 27, 37, 33, and 36	twistle Re- i in order of the degree of bilght	(30) (30 Col. 37 (30 Col. 37 total 'felin = 200)
9	27.63		13,84
4	50,68	(1)	25.34
17	23,57	(9)	11.79
18	41.50	(2)	20,75
13	31.31	(3)	15.70
20	24.70	(5)	12,35
Total	200		100

The the 21 amine indices, it is revealed for the bymothetical city that parameter and 7 km the highest degree of blight. In order of the overall degree of prices, the saighborhoods run as follows: 7, 18, 19, 6, 20, and 17 (see Sol. 38, Table 8). Incidentally, this is asserted to the said of th

Further, veighting technique shows the quantity of blight in a given blighted area as against the total overall problems in the city. This feet is illustrated by Column 39 of Table 8. Neighborhood 7 alone has the concentration of about 26 percent of the total blight in the hypothetical city.

Lastly, the planear while applying weighting technique for identifying the degree and nature of blight in a neighborhood analysis study, must be centious in distributing the weights to the various indices. Fo must be careful because the application and use of weighting in any study of social sciences where quantification²⁰ of facts posses a serious problem may mislead the planear if the relative importance of the individual indices cannot be precisely determined. Because of

³⁰ might inself is a qualitative concept, and difficult to press in quantified terms.

the stational carries ty, which seemings is not videly used by the planners. Sending technique, though not very accurate and precise is sore possible because of the lesser degree of risk involved in its application and use. Nonetheless, the planner must try the weighting technique. For though in most cases it relies on arbitration for its application, it gives comparatively better results, and provides a securic basis for identifying the magnitude and nature of blight for a given neighborhood.

THE STORAGE

FINAL MUCRO-ANALYSIS

The preceding chapter was devoted to the development of a methodology for identifying the degree and nature of blight for each of the blighted areas in a given notropolitan city. The substance of the present chapter is to describe and ascertain certain techniques that may be used for the final delineation of blighted areas based on the degree of blight identified in them.

Engaged in this phase of blight analysis, the planners first step will be to refer back to Tables 5 and 8, where Columns 30 and 37 respectively, reveal the intensity of blight in each area. The information presented therein can be rearranged for the final delineation of blighted areas in the following order:

19000 9

Hierarchy of problem areas in order of the magnitude of blight		
l (most blighted)	7	
2	18	
3	19	
4	6	
5	20	
6 (least blighted)	17	

Myor is revolute around have been set in blorarchy of the magnitude of Siirt and opinions of Table D. the most step is to present them at a city map of cuitable scale. For the hypothetical city this can be done as shown by Figure 3.

Theoretically the information presented in Figure 3 shows the final delineation of problem areas of the city based on the identified degree and nature of blight. But this delineation does not take into account that all the areas in a given blighted neighborhood or more precisely all the blocks of a given blighted area are not uniformly and equally blighted. In actual practice, however intense and deep may be the detarloration of a neighborhood, it is likely that there will be some blocks which are sound and as such cannot be included within the delineaved areas. This demands another step of analysis to be taken by the planner in the best interest of the community not only in terms of saving its expenditures for improvement, but also to ensure a precise basis for determining the corrective courses of action for the elimination of ilight. So is, therefore, required to identify those parts of the neighborhood which are sound and worth preserving. Two ways may be prescribed for defaut this:

- (1) Identifying city block conditions from secondary information
- (2) Making field survey (block by block).

Flowver, instead of attempting to do this in two separate ways, it is suggested that the second technique be used as a check to verify the results obtained by the first one. This is suggested because, absolute the neighborhood analysis, report for a given community designates as area for classings and redevice place. Field surveys at the time of



matting action line operation will be invitable in terms of delineating project areas, comparing tend and buildings, determining fair parket prices for them, planning relecation, and so forth. In order to avoid cuplication of vorks, therefore, it is believed that a windshield check will suffice for the present stage.

However, to identify sound parts of a deteriorated neighborhood, the planner is referred back to the census tract information published under the beading, "United States Census of Housing—City Elooks." The 1960 U.S. Census has made a separate publication on the block characteristics in each census tract for each of the metropolitan areas of this country. The way the information on block conditions is furnished by the census, can be presented as below? In Table 10.

From the information supplied in Table 10, the most step of the planner is to identify those blocks which are sound and worth conserving. Identifying these blocks involves the developing of a criterion by which a block can be labelled as good. Nowever, the planner may adopt the criterion used by the U.S. Census to designate an area to be good. It cefines an area as "sound" where less than 20 percent of the housing units are deteriorated. ²³ A hleaj can therefore be tormed as sound where less than 20 percent of the housing units are deteriorated.

 $^{^{\}rm 31}\mathrm{See}$ any census publication for any metropolitan area in the United States.

^{32&}lt;sub>Ibid</sub>

³³ Whited States Census of Housing-City Blocks." Department of Commerce, Burdau of the Census, p. xi.

Sistin In

18 18					
8					
Dens. (1968) [24] [34] [34] [35] [35] [36] [36] [36] [36] [36] [36] [36] [36					
-01-1					
8 4					
18.0					
2					
192.					
Totu (6)					
1777					
BE SO					
THE.					
19 62					
= =					
locks from Deteri-					
ocks	~:	61	60		Q _U
.E					
truck (1)			5 6.05		
0.4					

Times, from Table 10 for any given block, if

column 6 > 100 > 80%, the block can be considered as a sound one.

This way, the planner should identify all the blocks in a given neighborhood and categorise them as either "sound" or "blighted." This can be done in the way demonstrated by the following table 34 (Table 11).

TABLE 11

		: (3)			:	Rem	arks
Meighbor- hood	: Blocks	+ H. U.	Total :	col. 3 × 100	:	(6) Sound	(7) Blighted
	1			> 80%		×	
	2			> 80%		x	
	3			4 80%			×
xth				- 80%			×
	40						
	$n_{\rm b}$			4 80%			x

The next step is to pick out the sound blocks as identified in Diumn 6, Table 11, and present them on a map of the given neighborhood. To illustrate whis, Neighborhood 7 of the hypothetical city is used here to show the blocks that are sound and may be excluded from being labelled as blighted (Figure 4).

²⁴Av this was the planner, denor of on the level of details decired, may such above a legical of bir in a line increidual blocks by applying the raiding or weighting technique.

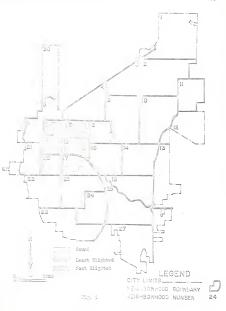
The plantar Li to repeat the above process for each of the blighten pointbornesse as illustrated in Table 11 and Figure 4. We is to exclude the parts which are not blighted from the areas that are finally delineated as being blighted. The planner's last step in the final delineation of blighted neighborhood. Is to combine all of them after the stage shown in Figure 4. This can be done as shown by Figure 5.

	2	3	4	5	6
7		9	10	11.	12
)== ,= \11	14	15	16	17	18
	19	20	21	22	23
	24	25	26	27	28
	29		31	32	. 33
	34	35	36	37	38
	\\\39	40	41	42	43

Figure 4

Sound - The M





REMEDIAL ACTIO

The transact sumputes of this paper were devoted to describing the testingues that may be employed by the planner in locate where by the lamb and the purpose of this final chapter is to accortain some techniques to determine as to what much to be done about it.

In the process of designing an appropriate remedial program, the function of the planner is to identify the treatments and actions which a given community can undertake for eliminating deficient conditions and for improving neighborhoods. Such improvement programs may be classified in two general ways:

- (1) Existing local improvement programs
- (2) Urban renewal programs.

Existing Local Improvement Programs

Ther the management of the local government, there are several elements which may be developed, adopted, and executed to ensure a sound program for the metropolitan improvement. These elements enable the metro-community to have its own plan of action through which the local recourses may be utilized to endicate present blight and to prevent future bit-fit. These elements are as follows:

Local of Description. Most of the cities of metropolitan level must have adopted adequate codes and ordinances. If not, these

model to condition and condition or into constitut. But enforcement becomes well investigate ments in the maintenance of standard density and appropriate configuration of future times and appropriate configuration.

The tar, whether, and electrical codes are all powerful tools to govern and control the new constructions, and or repairs or additions, and altorations with adequate modern standards. There is hardly any doubt that the enforcement of a Housing Gods is essential in order to bring existing unsound housing to enfe, healthful standards. In addition, there are other regulatory measures which are also wital in combating urban higher as in enhancing the proper development of the community. These incluse the following:

- (a) Subdivision regulations—to protect against scattered and unplanned uncontrolled land-use growth in the city, especially in areas where problems of vater supply or sewage disposal exist or are anticipated; to provest against poor street layout, small lot size, and inadequate pairs and playgrounds.
- (b) The soning ordinances—to control land-use and building intensity to increase the property values.
- (c) Air pollution regulations -- to protect against adverse influences of obnoxious fumes and odors.
- (11) Tubble Journmount Fromum. The provision of adequate public facilities and services such as water supply, sanitary severs, current lighting, schools, recreational conters, etc., can stimulate and encourage privite improvements. Although any given netropolitan cuty is likely to have an existing Lisquite program for public

improvements, more can be melieved by coordinating those improvements with those of the private investors. There is no denying the fact that the lack of necessary community facilities encourage and create neighborhood deficiencies in many forms. The correction of these problems by public action coupled with private efforts can do a lot towards the physical improvement of blighted neighborhoods.

Urban Renewal Programs

Urban renewal is a local program—locally conceived, planned and executed under state law with federal assistance when sought. It is a concerted effort by a given community to correct and prevent urban blight and to set in motion a long-range program of improvement in terms of the renewal of the land and structure. Federal assistance in the form of loans and grants is available to any city in its program of eradicating blight. Sums up to three-fourths of the net cost of the program are available for planning, acquisition, clearance, and installation of public facilities. The final decision as to whother or not a city will undertake such a program belongs to the city itself.

Essically, there are two types of renewal programs which may be undertaken by a city as a measure of rejuvenating its blighted areas. They are:

- (i) Rehabilitation/Conservation
- (ii) Clearance/Redevelopment.

Rahabilitation/Conservation

The purpose of this program is to preserve and conserve the elements of a neighborhood which are good, to eliminate those which

are bad, and to read the area to the extent that it can be restored to sound and healthy conditions. The program consists of the repair or alteration of the deficient structures, the removal of the scattered pockets of sub-standard houses, and the application of the conservation techniques—codes and enforcements. An area designated for this type of treatment may be the entire project area or a section of the project area in which clearance and redevelopment may be the other type of treatment. To qualify for such type of action, an area must possess the following characteristics:

- (a) All properties to be conserved in the area must be capable of upgrading to property rehabilitation standards.³⁵
- (b) Street and land-use patterns must be capable of adaptation to the present day needs and objectives.
- (c) The area must possess considerable residential qualities and desirable physical characteristics which ensure that the rehabilitation/conservation activities will be sufficient and adequate to restore the area to a long-term sound condition.

³⁵The definition of Property Rehabilitation Standards as furnished by the H.H.F.A. is as follows: "The term 'Property Rehabilitation Standards' means the combination of code standards and rehabilitation requirements, which are established for properties to be retained in the project area. Code Standards refer to the requirements of local building, zoning, plumbing, electrical, fire prevention, and other laws related to housing construction and to use, maintenance, and occupancy of properties. Pshabilitation requirements refers to the criteria, in addition to code standards, which are established for properties in the project area to assum their restoration to a sound condition. They shall be accepted to the relatement of the relativistic properties."

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This row was the still of Or areas of extreme blight which have survived at a stage of distribution and confirmmental deficiencies. It involves the claimage of the dilapticated areas and their subsequent pedevelopment so as to restore the area to a long-term sound condition. The program may encompass a complete project area, or a part thereof, when the other type of treatment is the rehabilitation/conservation. To qualify for this form of remodial action an area must possess the following equiditions:

 (a) At least 50 percent of the buildings in the area must be substandard to a degree requiring clearance, 36

^{1211. &}quot;Buildings classified as 'structurally substandard to a career requiring classified must contain defects in structural elements cad/or a combination of delicencies in essential unlitted and facilitates, light and ventilation, fire protection (including adequate egress), levet and on. Am of interfor partition, or similar factors, which defects and/or collectences are of sufficient total significance to justify claramos."

- (5) Do at least to coront of the saldings in the area must coguing classings and the area must contain at least two antiference identifications; 37
- (e) The proposed redevelopment must be guided by a sound redevelopment plan for the area.

Determination of Actions for Highted Areas

After being familiar with the concepts related to the types of treatment as described and discussed in the foregoing sections of this chapter, the first step of the planner in the process of identifying the corrective courses of action medial to evaduate what improvement programs his community has adopted so far in terms of code enforcements, public facilities plar, soming and subdivision regulations and so forth. These programs are not only essential for the improvement of the blighted eruse, but are also extremaly effective in proventing the spread of blight into other healthy community areas.

The new H.P.A. sofinition, an area becomes environmentally collicions them it contains any combination of the following characteristics: 1) over-reading or invoice location of structures on the Land, 2) excentive occuling unit density, 3) converged containing the structures of uses, such as receing houses among family dwellings, 4) obsolute building types, 6.9. Input residences or other combinations of buildings which, tirough lack of use or maintenance, have such as the surface of the such as the surface of the such as the surface of the s

It will be noticed what the neighborhood indices suggested in manner II, pp. $L\delta-\omega \gamma$ include all the above characteristics as quoted above.

by MITTEREMS between the needs of the given community and the once it has alread; adopted in terms of those improvement programs, will constitute the planter's first recommendation for the city as a whole to arrest its proport and provent future blight.

Setting the general recommendations for the city as a whole, the planner must focus on the highted and slux areas of the city as delineated in Figure 5, and to prescribe the specific treatments necessary for each of them. It is proposed that the planner, in the course of designing types of treatment, set the recommendations separately for each individual highted area. At this stage he will have to refer back to Table 5 or 8, which shows the degree and nature of blight identified for each area, and on which are dependent the types of remodial action. This is demonstrated by Table 12 wherein is identified the type of trustment needed for Neighborhood 7—the area of highest blight in the hypothetical city.

The third step of the planner is to repeat the process as illustrated in Table 12 to arrive at the recommendation of treatments necessary for each of the remaining areas such as Neighborhoods 18, 19, 6, 20, and 17. For the hypothetical city, let it be assumed that the remedial actions for each of them are identified as shown in Table 13.

The final step is to present the information as depicted by Table 13 on a map of suitable scale of the given city. This may be done as shown in Figure 6.

(n)	(2) Rature and deg.	(3) Orthoria fo. (4) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	Criteria for (4) :	(5) : Clear nee/ t: rehebitite ton	Special Specia
-3					
۵	b) 73% of families have fineous less than \$3,000 (concate decline)	Page 82	Parer 33-54	ville area regith re co., it we	for 1 Hell to
0	e) 45% B.U. dilepidote: (wasafe attachers)			cles wes nor all of wents can be as	ay or the first the plant of th
-	c) 464 L.U. are over- erended (high density)			conserved	will be sey, "Clear co and
O	c) 31% of n'hood occupied by railroad (adverse influence from noise, enoke, etc.)				redeseless (mos
4-4	f) Has 1,10 parks per 1,000				

36the area which requires partial clearence and partial rehabilitation/conservation.

xth index

 99 In planner to arrive at his recommendation must evaluate the information as depicted by Column 2 for all the x number of indices. Here are shown only 6 of them for illustrative purpose.

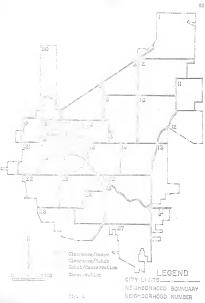
5 48 × 3

Eligiburd Area	1	Ty-us of Treatments
(noighborhoods)	:	Recommended
7		Clearance/Redovelopment
18		Clearance/Redevelopment
19		Clearance/Rehabilitation
6		Clearance/Rehabilitation
20		Rehabilitation/Conservation
17		Rehabilitation/Conservation

Priority Determination for Action

The final phase of a neighborhood analysis study for a metropolitan area involves the develoring of a priority program according to which community actions will be put into operation over a definite period of time. Although a detailed demonstration of this aspect is beyond the scope of this paper, it is briefly discussed here, pointing out some factors which the planne least take into consideration, evaluate and weight tens for establishing the priority of action for different areas of blight in the city.

It is likely that the neighborhood(s) most blighted in the city will desend immediate attention in terms of roceiving action for improvement. For this type of area, the usual remedial actions should be clearance/redevelopment. The planner may place top priority in terms of intending action for these areas. The planner, however, should not ignote certain adverse implications which may accompany such actions



and rive rise to used comments resulting controversy, and even criticises, apart France creation here operation from those who will be directly address as a result of code programs, it is not unlikely that the committy leaders are people of the city at large may disapprove such extract from of actions. The planner is even of the much debated urban removal programs which have already accumulated a great deal of criticism throughout this counter.

In view of those circuistinees, the planner may try the first renewal project is the one for which the remedial action centers on rehabilistion/conservation. Deing this will help break through the general apprehension if there is any, on urban renewal and will make the citizens fimiliar with the renewal activities. It will also give rise to a community-wide concennum about the morits of urban renewal, when it will be much easier to take up the areas requiring clearance and redevelorment.

Apparently, though this technique, which brings about a charge in the traditional approach of treating the most deteriorated area first, may not sound suitable to many tradition-oriented planners, it has some significant advantages in implementing the planner's recommendation, which the traditional nothed may not be able to achieve.

In addition to this powerful factor, the planner also must consider other factors in the process of determining priority for action. For the areas of blight in the city, These factors are enumerated as collects.

> (a) The chility to provide adequate housing for the displaced families.

- (a) ___ coming and ability of preparty owners to rehabilitate
- (g) The ability to improve housing and environmental conditions by the aforement of codes and ordinances.
 - (d) The Hillity to acquire, clear, and dispose of cleared land.
 - (*) The opportunities for coordinating capital improvement works with community improvement actions to eradicate blight.
 - (d) The determining of how many people will be benefited through a neighborhood development as against how many losers.
 - (g) The identifying of what area or areas will attract the rivate developer most.
 - (h) The determining of how many people in the city desire what area should be taken as first urban renewal project.
 - (i) For what area, citizen participation will be rendered most.
 - (j) What the policy makers think about the various blighted neighborhoods in terms of putting priority for action.

Elec carefully evaluating and weighing the above factors, the planner will set the priority program and accordingly schedule action for improving the blighted areas in the city so that blight is eliminated, oradicated, and prevented from recurrence, hopefully, forever.

QUICLUS DVS

a tensor was bour at in this paper to design a comprehensive methodology of malphorhood analysis for cities of motopolitan level. Techniques required at various phases of the blight analysis and measurement, have been described and discussed in the light of their merits, descrits and applicabilities. As the initial part of urban revitalisation planning, when the planner is setting out to undertake a neighborhood analysis study for a given netropolitan area, he may find this methodological vasaurch halpful in attaining his objective. However, since all cities are not allow in terms of the nature and degree of their decay, the techniques enumerated in this paper may not be applied in an exclusive

The field of urban planning is still in the evolutionary stage. The techniques available to the planner are not as perfectly and estentifically well-established and precise as we went then to be. Apart from the recency of planning as a discipline, it is a highly complex field in that it gears itself to a sories of social science disciplines such as economics, socialogy, political science, law, and so forth, where uncontrollable variables are too many, and where quantification of facts and information posses a serious problem. This implies that in many occasions, the planner needs to develop his own criterion, including the tempering of or modifying the evailable techniques to fit the characteristics of his city. The authorityees of resignication analysis as discussed in this paper

should be project, taking the account. The basic constraints which are

The pageran of blint section is 16 process which treditionaltions will be analysis of blint are ands in the implementation of returned flows. All points in this continuum are highlighted by the recordent role of the naturopolitan planner as the guide of naturopolitan relationare. In the past the planners believed that their functional role should cease to operate once the analysis and the development passes of the plan have been completed. This happened because planners tended to take that the execution of the plan rests entirely on the community itself, viz., on its power structure. Necesser, this concept of the planner's role as the guide of when development does not seen to make the planning process a complete entity. His comprehensive functional role should necessarily include the implementation of the plan or recommendations. This is true because, as a professional, the planner needs to feel an othical responsibility towards the community in getting its plan implemented.

There is little doubt that the implementation of plans bocomes impossible without active support and cooperation from the citizens of the community. Developing ways of gaining cooperation from them is indeed a technique deeply imbodied in the planning process about which there is much to learn. In the past, planners could develop and implements plans without involving themselves much directly with public relictions. This was true, partly because there was less complexity in when life, the power structure was less complex, interest groups were Press. In addition, pl. ming was mainly devoted to physical planning,

Laving lat be or no consistency with the social, political, and economic trends of the society.

ret the cituation is different today. Stanges have evolved from this repail repoil of urinization during the last two decades all over this country, capacitally in metropolitan areas. The urbanites have become care and more cause politically, socially, economically and in all aspects of urban life. This demands a change in the traditional role of the urban plannier so as to cope with the new attuation concerning urban planning and development. This is especially true at the metropolitan level where the interest groups are so widely present that the planner must involve himself in politics to the extent that the development of the community is properly planned and implemented. The wise planner today can cartainly not allow the prepared plans to simply sequire dust in the shelves of City Hall. They need to be implemented in order to achieve the goals and objectives of the community.

In the context of blight eradication program, the implementation phase in the planning process is of paramount importance in that without the procer implementation of recommendations, blight can never be wired out, and will consequently lead to the failure of raising the quality of urban living. There is no doubt that the professional utility of the planner is bound to lose much of its meaning under such circumstances. Further, some of the actions conserming the eradication of blight are likely to give rise to certain implications which are subject to much restrictly and labate. Some cristanding critics of urban reneval in thus country already have influenced urban communities to a certain extent to critical functional transfer out of content to contain content to critical content of the content of the content of the content of the critical critical content of the critical content of the critical cr

commonstant recommy consider-arguments to convince the community not as summer the training assemble of such province which in the long run, namely entry sare leaded to see . It is obvious that the planner with bardy sare is markled to be them convinced until be maintains a community set of markless with them, and two convinced until be maintains a community set of the community sower structure, interest proven, ... will as other community leaders and civing groups. To gather cooperation and coordination from all these quarters is extremely important for the implicontains of recommendations. As a matter of fact, the planner of town needs to possess some millie Pulations quality in him-a technique whose willifty can scarcely be offset by mything else.

Finally, /morious matropolitum areas are facing the serious threat of blight today. Their rovitalization is necessary. But revitalized forms of oftics will rover come into reality until and unless actions can be not from effect. Actions can never be put into effect until and unless there is soldered a high degree of citizen participation. Indeed, the eradication of blight needs a concerted and combined effort by planners, noticy-makers, and citizens atike. It is time that they all go hand-in-hand in their approach to combat urban blight and be fully determined to eradicate blight, hosefully forever, to ensure the creation of an optimum urbin environment which will eventually give rise to the development of a bulanced relationship between the place of vork, place of sleep, and classe of recreation in the American matropolis.

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AN ABSTRUCT OF A MASTER'S REPORT

submitted in partial fulfillment of the

requirements for the degree

MASTER OF REGIONAL AND COMMUNITY PLANNIN

College of Architecture and Design

KANSAS SLATE UNIVERSITY Manhattan, Kansas The serves of arthm plantime in to recor the quality of brham lives beyond the movement of the depical environment. Among all the depical meaning the latest the property of the formal transfer and the property of the challenges fund in most of the major American plant remains the blue challenges fund in most of the major American plant comes very than. The possible and attack the coming intolerable, the worst of all urban descriptions are always and blight.

To measure the development of a healthy urban environment, corrective actions are, therefore, necessary for the cradication of blight. Actions energe from plans, plans energe from theroughly analyzing the existing situations concerning the nature and magnitude of the urban wrothen. Reighborhood analyzis as a part of urban removal planning is the stuly which provides information as to where blight exists, how intense it is, what its nature is, and what needs to be done for its cralification. This report is an investigation of a methodology for analyzing meighborhood blight for cities of metropolitan size. An action, the bean made to point out various techniques required in various whomes of a meighborhood analyzis for a given metropolitan area.

There are of course variations in the scope and techniques of melashiorized analysis. The techniques will depend on such factors as socialists popular to the community, the availability of information, and is a cortain entent on personal judgment. Various techniques have presented with the hope that they will be of use to these metro-politic contains, on the varje of conducting a neighborhood analysis analy.

information was a size of claim commons that are information on a town at size. The sorre common is used in the new of the size of an appropriate of shighlerhood units. Townships one direction with defination of highled areas, both rantening and final, can in made by encloying this concept. The micro occasion is used to seat with the analysis of highly for a given neighborhood. In so doing, it concerns itself with the depth and breadth of mentions in the individual saighborhoods.

Bight is a qualitative concept, and difficult to measure in quantifible terms. Neuwar, it is felt that it is possible to identify, life comforable degree of accuracy, its extent by the application of the various indices as suggested in this study. Each of these indices modicate the dagree of hight in a given neighborhood in terms of that given indem.

Based on the extent of Might and its component factors, evolves the necessary type of remedial action. Rehabilitation-and-conservation is concerned with the preservation of elements of a neighborhood which are sound and worth conserving. Charance-and-redevelopment is designed for those areas of extreme blight which are in acute stage of dilapidition.

In establishing goals and priorities for action, the planner may try the first reseval project as the one which relates to rehabilitationand-conservation. The reason for choosing this less drastic action first til to help eliminate whatever apprehension may exist in the community the respect to recommend action. It is hopes that this will give rise to a community-whom accommend action. It is hopes that this will give rise to

There is little cook that the imple. Then of renoval programs is appositely a compactive majorithm consists of the officers of the community. In majorithm areas the power structure is so complex, carest purps are so diverse, and these exists such a great deal of public apathy concerning planning and community development that it is ascential for the planner to establish good lines of communication with all segments of society concerning planning and the planning process. The socirity for gaining public cooptance is paramount to the planning process about which there is much to be learned and recognized by the planners of the day.