FINAL EVALUATION

For

GRANT #1161

(BURGLARY REDUCTION PROGRAM)

Prepared by

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I. INTRODUCTION

This program began with some unique assumptions which affected the form of the evaluation.

To begin with, a prediction was made that burglary, city-wide, would increase on the order of 7% over the previous year. Part of the function of control areas (non-test) was to monitor the validity of that prediction. Since the increase in burglary was actually more like 14%, the prediction was shown as too conservative. The purpose of the prediction was to establish a different baseline for success/non-success from the traditional this year/last year.

In the three test sectors differing mixes of test elements, or tactics, were designed to assist in isolating the relative effectiveness of the individual tactics. This was defeated, probably predictably, by differing degrees of success with implementation of these test elements along with differing lead times, particularly where equipment had to be purchased.

The primary lessons we have learned from all this are:

1. This sort of program cannot be conceived, financed, operated and evaluated in one year and probably not in two years.

2. We found to our surprise that individual parts of a city can simultaneously exhibit opposite long-term crime trends, reflecting the changing character and social-economic make-up of individual neighborhoods. Given this, trends in a single neighborhood compared

with the balance of the City are, on the short term, valueless unless also compared with long term trends in the test neighborhood. The result is that evaluation of impact is made infinitely more difficult.

3. While realistic field research on crime control methods is of great importance, research in the area of evaluation methodology and interpretation of observed phenomena is of even greater importance.

This evaluation model and methodology was primarily designed by the Management Systems Analyst, Mr. Robert Porterfield, who was hired for the grant but who resigned on August 15, 1974. Most of the statistical studies were performed around the end of September, 1974. The test period began in September 1973 and ended with the termination of the grant on September 30, 1974.

In this report, only the final statistical results of the various studies are presented. The computer outputs, including the program lists, raw data of each study and the results are maintained in the grant file.

The basic null hypothesis of the Wilcoxon statistical test is that there is no difference between two periods. In general, the null hypothesis is tested on a relative basis which will be explained in Chapter III B. The periods and the various studies are discussed in Chapter III. All the Wilcoxon Test results were put in proper tables and attached in the appendixes. Those tables are

discussed in Chapter V and summerized in tables 7·1, 8·1, 9·1, 10·1 and in maps in appropriate chapters.

Theoretically, the civilian group worked only with the residents in C Sector using census tract maps. Therefore, in Chapter IX, the Wilcoxon Test for significant difference in time was performed on those particular census tract areas and the surrounding areas. The Wilcoxon Test of the ratio of other Part I property-related crimes to reported total burglaries are studied in Chapter X.

II. THE GRANT

The declared purpose of Grant #1161 was to test the theory that a community oriented, civilian crime prevention group working with a police department test group can cause reduction in a specific crime; for example, burglary. The goal of this project was to reduce the crime of burglary in test sectors C, G, and B by 10% below the forecasted yearly total.

The two program contingents, civilian and police, were designed to work separately, but coordinated through co-directors, Mr. Ed Good and Captain E. E. Knechtel. The Police Department concentrated on target identification and more effective criminal apprehension based on the following factors.

1. Team policing

2. Innovative patrol tactics

3. Burglary forecasting

4. Electronic tracking devices

5. A single fingerprint file

The objectives of the program are:

1. A 10% reduction in the number of burglaries committed in the test
   sectors by:

   a. Development of effective burglary forecasting models.
   b. Establishing team policing methods.
   c. Developing periodic tactical plans for individual sectors.

2. A 10% increase in burglary case clearance in the target areas by:

    a. Increased primary investigation
    b. Increased follow-up investigation
    c. Use of a single fingerprint file
    d. Application of electronic tracking devices
    e. Identification of specific targets and use of alarm systems.

Although the program was officially started September 15, 1973, the research team was not formed until October 5. The program was seriously hampered by the uncertain ending date of the grant. The final date was moved back from September 15, 1974 to July 31st and then successively forward to August 15th, August 31st, September 15th and, finally, September 30th 1974. One result of this uncertainty was the early loss of the original research team. The statistical analyst resigned on July 5th, 1974 and the Management Systems Analyst, who had a major responsibility for the final grant evaluation, left the job on August 15, 1974. Therefore, the Inspectional Services Division took over the final evaluation.

A. Method:

Box-Jenkins Time Series Model Building

A time series is a set of observations taken at equally spaced time intervals, say Z_t, $t = 1$, $2 \cdots n$. As opposed to the normal assumption of stochastic independence of observation, it is specifically assumed that the se observations are correlated.

G.E.P. Box and G.M. Jenkins have developed an iterative method for modeling the dependence among the observations in a time series. It is a model building process rather than a model fitting process, because the model is determined on the basis of the data rather than by assumption.

The model determination stage, called identification, is followed by parameter estimation, and then diagnostic checking to determine if the model provides an adequate description of the data. If the checking stage shows that the model is deficient in some way, it is necessary to return to the identification stage and go through the process again. When the model satisfies the checking, it is then used for forecasting future observations. In this section each of the steps in the model building process will be discussed. (The name of the program at the University of Washington is TIMSER.)

The basic tools in the identification of a time series Z_t are the auto-correlation and partial autocorrelation functions.[1] Identification is the

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[1] Box, G.E.P., and Jenkins, G.M. Time Series Analysis, Forecasting and Control, Holden-Day, 1970, Chapter 6.

first step in the analysis, and must be complete before going to the other steps. Identification is done by setting the variable IACOR equal to 1 on the initial parameter card. Use of the estimation/forecasting part of the program is not allowed when the identification part is being used.

The estimation, diagnostic checking, and forecasting can be done by setting IACOR equal to 0 (or leaving field blank) and setting IEST to 1 (for estimation) and/or IFOR to 1 (for forecasting). The most general type of model that can be handled by the programs is presented below.

First define a operator B, such that

(1.1) $\quad BZ_t = Z_{t-1}$

i.e., B maps $Z_t \to Z_{t-1}$. Let a_t be used to denote a random shock entering the model in period t. The shocks are assumed to be independent, normally distributed random variables with mean zero and constant variance σ_a^2. Given these definitions, and disregarding seasonal and trend factors, the most general form of Box-Jenkins model has an "auto-regressive-integrated-moving average" form:

(1.2) $\quad (1 - \phi_1 B - \ldots - \phi_p B^p) \quad (1-B)^d \dot{Z}_t = (1 - \theta_1 B - \ldots - \theta_q B^q) a_t$

where $\dot{Z}_t = Z_t$ if $d > 0$, and $\dot{Z}_t = Z_t - \mu$ if $d = 0$, with μ representing the series mean. In shorter notation, the model is denoted as ARIMA (p,d,q).

These models are based on the assumption that the series Z_t modeled is stationary, or that it may be reduced to a stationary series by differencing it an appropriate number of times, say d, i.e., by forming $(1-B)^d Z_t$.

Equation (1.2) can be generalized by including terms similar to those already present to handle seasonal factors, and a parameter, θ_0, to represent a possible deterministic trend factor. This more general form of the model is:

$$(1.3) \qquad (1-\phi_1 B-\ldots-\phi_p B^p)\ (1-\phi'_1 B-\ldots-\phi'_{p_1} B^{p_1})\ (1-B)^d \dot{Z}_t\ (1-B^s)^{d_1} =$$

$$\theta_0 + (1-\theta_1 B-\ldots-\theta_q B^q)\ (1-\theta'_1 B-\ldots-\theta'_{q_1} B^{q_1})a_t$$

where $\dot{Z}_t = Z_t$ if $d > 0$ or $d_1 > 0$, and $\dot{Z}_t = Z_t - \mu$ if $d = d_1 = 0$. This is the most general form of Box-Jenkins model that can be handled by the program used for this project.

Note that parameters may arise from six different sources as we examine the equation from left to right:

(1) $\phi_1,\ldots,\phi_p$ – regular autoregressive parameters

(2) $\phi'_1,\ldots,\phi'_{p_1}$ – seasonal autoregressive parameters

(3) μ – the mean of the series

(4) θ_0 – the deterministic trend constant

(5) $\theta_1,\ldots,\theta_q$ – regular moving average parameters

(6) $\theta'_1,\ldots,\theta'_{q_1}$ – seasonal moving average parameters

The ϕ' and θ' parameters do not have to be considered seasonal parameters, although this is their normal function. In addition, one could have, for example,

a $\phi_3 B^3$ in the model without including $\phi_1 B$ or $\phi_2 B^2$. The same is true for ϕ', θ, and θ' parameters.

The program for this project uses variables INC(1), INC(2),..., INC(6) to store the number of parameters of each type, in the order (1) through (6) as given above. The user must supply these six values.

Other symbols in (1.3) are defined as follows:

d = number of regular differences; i.e., $(1-B)$ factors

s = the order of the seasonal difference

d_1 = number of seasonal differences, i.e., $(1-B^s)$ factors

The program uses the variables NRD, NSEA, and NSD for $d, s,$ and d_1. Given the preceding, the model is completely specified when the order of each parameter is supplied. The "order" of a parameter is the power of the operator B which multiplies that parameter in the model equation of the form (1.3). For example, for a model which includes a term $\phi_3 B^3$, the order of the parameter $\phi 3$ is 3. The user must specify values IOPA(1), IOPA(2),...which give these powers of B from <u>left to right</u> in the equation. The number of these values will be equal to the number of parameters. For μ and θ_0, the power of B is equal to zero.

When the user has clearly specified the model in the above fashion, the estimation of the parameters is done by minimizing the sum of squares of the residuals or random shocks a_t. [2]

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[2] <u>op.cit.</u>, Chapter 7.

First, as explained above, the series was fed into the computer program

for model identification, i.e., to determine what model fits the series

best. The main instrument for model identification is the autocorrelation

function $r_1, r_2, \ldots, r_k$, where k is usually chosen to be a low multiple of

twelve for monthly series such as 24, 36, or 48. Any autocorrelation

coefficient r_k in the function is the correlation of the data points of the

same series k periods apart, i.e., Z_t correlates Z_{t-k} for t = 1, 2, ... N;

where N is the number of data points in the series. The value or r_k must

be between -1 and +1. If its absolute value is close to one, it is high

correlation. If it is close to zero, it is low correlation.

The autocorrelation function r_k is used in two steps. First, to determine

if the series is stationary or non-stationary. If the value of the r_k vanishes

suddenly after k has reached, say, two, or vanishes gradually as k progresses

to high orders, say, twenty-four, then a stationary model should be used

for the series. If the series r_k stays at, say, 0.7 after k has reached,

say, 24, a non-stationary model should be considered, which means to

take either the first order difference of the series: $\Delta Z_t = Z_t - Z_{t-1}$; or the

second order difference: $\Delta^2 Z_t = \Delta Z_1 - \Delta Z_{t-1} = Z_t - 2Z_{t-1} + Z_{t-2}.$ (4)

Once the order of differencing the time series or the question of stationariness

of the series has been settled, the second step of choosing which model to

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[4]op.cit., Chapters 4 and 6.

use begins. There are three types of models to be chosen from: autoregression (AR), moving average (MA), or mixed (ARMA). Loosely speaking, an AR model means the series has some "continuity," linear or nonlinear. If Z_t depends more or less upon Z_{t-1}, then it is a first order autoregression, AR(1). If Z_t depends upon Z_t-2, as well as Z_{t-1}, then it is an AR(2) model. The autocorrelation function of an AR model gradually vanishes. A MA model means the series has no "continuity," and it is determined by random distrubances. It, too, can be of either the first or the second order, MA(1) or MA(2). The autocorrelation function of an MA model vanishes abruptly at a low order of k, say one or two. The third possibility is that the time series is both autoregressive and subject to random shocks, which results in a mixed model. Its autocorrelation function gradually vanishes, as does its partial autocorrelation function.

The autocorrelation function of the city-wide burglary series is as follows:
.93, .87, .82, .78, .73, .68, .64, .60, .56, .51, .47, .43,
.38, .33, .29, .24, .21, .16, .13, .09, .06, .03, .00, -.02,
-.04, -.06, -.09, -.14, -.18, -.22, -.23, -.25, -.27, -.28, -.29, -.29,
-.31, -.31, -.30, -.30, -.31, -.31, -.28, -.25, -.23, -.21, -.19, -.15.
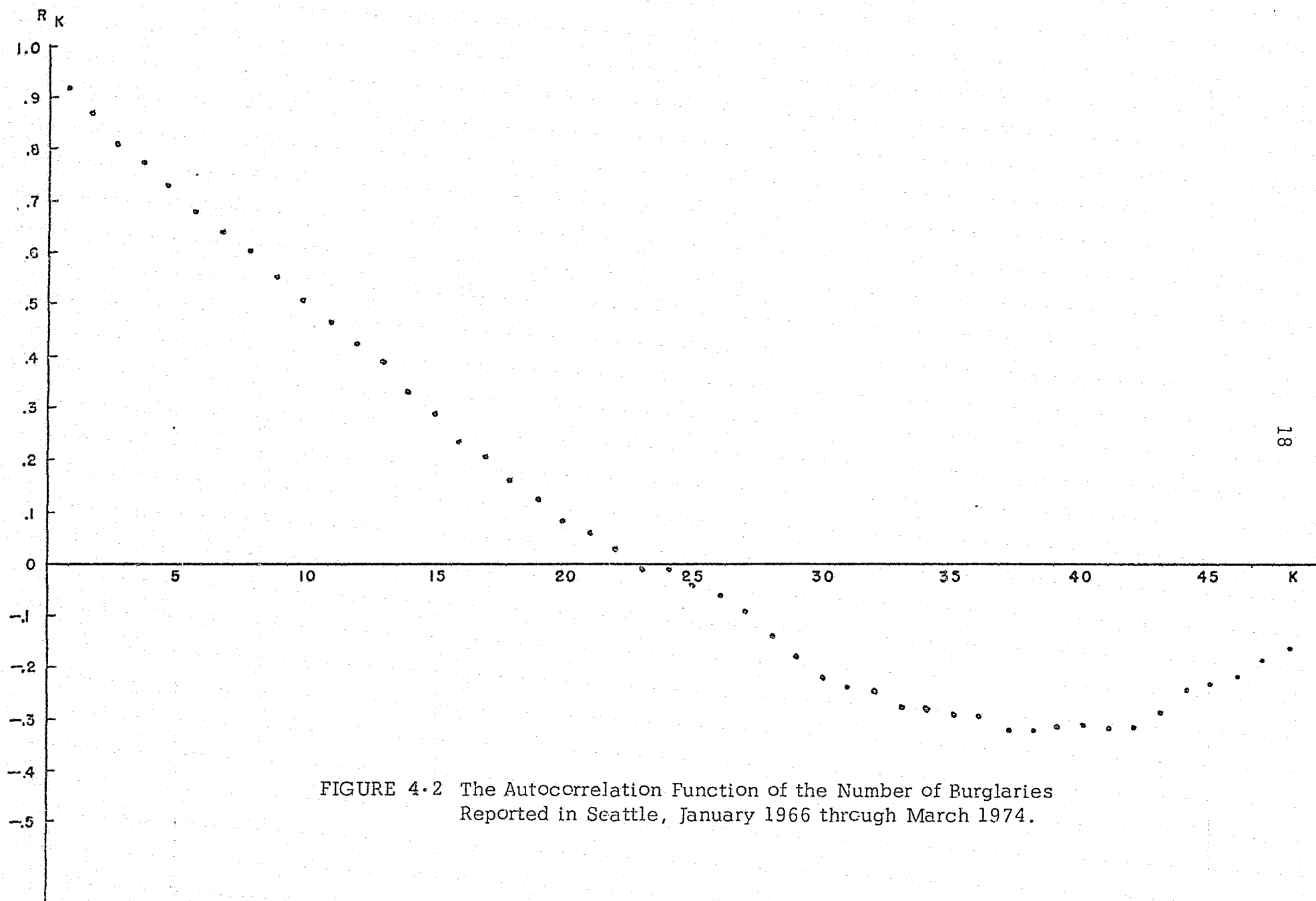
FIGURE 4·2 The Autocorrelation Function of the Number of Burglaries
Reported in Seattle, January 1966 through March 1974.

It is clear that the autocorrelation coefficients of the series approach zero and then turn to negative values. Thus, a stationary model is appropriate for the series. This gradual vanishing function suggests an AR or a mixed model rather than a MA model. The next question is: Which model, AR or mixed? Another computer output, the underline partial autocorrelation function, indicates that the following AR(1) is the model to use for the series:

$$(1 - \phi B)(Z_t - \mu) = a_t.$$

The first twelve coefficients of the partial autocorrelation function are as follows:

.93, .06, .04, .03, -.08, -.05, .11, -.06, -.04, -.04, .02, .03.

This series shows an abrupt drop from the high first coefficient of .93 to the low second coefficient of .06. This signals a first order autoregression model. Note that in the autocorrelation function, the coefficients of order 12, 24, 36, and 48: $r_{12} = .43$, $r_{24} = -.02$, $r_{36} = -.29$, and $r_{48} = -.15$ do not stand out. This indicates that there is no seasonal pattern to the series.

This completes the stage of model identification. However, the description given above is merely an outline of the procedure with minor details omitted. Identification of a suitable model for a time series is frequently done by a trial and error process.

The next computer run of the city burglary series is to estimate the parameters ϕ (the AR coefficient) and μ (the mean level of the series Z_t),

to test the sufficiency of the model, and finally to forecast future values of the series.

The subroutine, nonlinear lest squares, in the program yields the following estimates:

$$(1 - 0.934\,B)\ (Z_t - 1{,}047.8) = \hat{a}_t \text{ with } s_{\hat{a}_t} = 83.7.$$

The chi-squared value to test the randomness of the residual errors $\hat{a}_t$ is 23.4 with 22 degrees of freedom which supports the null hypotheses that the errors $\hat{a}_t$ are random. Therefore, the model is accepted with no revision. However, the coefficient of determination, $\hat{R}^2$, is merely 0.168. Only less than 17% of the fluctuation has been "accounted for" which is scarcely encouraging. A way to improve this would be to find the variables which can explain and predict the fluctuations in the series.

The forecasts made at a few selected dates are presented below, along with the actual values.

Forecasts of Reported Burglaries in Seattle

		Forecast	Actual
(origin)	March 1970	---	1,502
	April	1,472	1,157
	May	1,444	1,205
	June	1,417	1,233
	July	1,393	1,134
	August	1,370	1,119
	September	1,349	1,178
	October	1,329	1,206
	November	1,310	1,138
	December 1970	1,293	1,159
	January 1971	1,276	1,065
	February	1,261	904
	March 1971	1,247	943

2. Sector Studies

Each of the two major component series, residential and non-residential, consists of ten component series by sectors. The final models selected for each sector after exploratory runs are listed below.

Residential

January 1968 through May 1974

Boy: $(1 - 0.676B) (X_t - 85.3) = a_t.$ AR(1).

Charlie: $(1 - 0.598B) (X_t - 123.1) = a_t.$ AR(1).

David: $(1 - 0.799B) (X_t - 9.9) = (1 - 0.730B)a_t.$ ARMA(1,1).

Queen: $(1 - 0.450B) (X_t - 59.0) = a_t.$ AR(1).

Union: $(1 - 0.701B) (X_t - 59.9) = a_t.$ AR(1).

George: $(1 - 0.638B) (X_t - 104.8) = a_t.$ AR(1).

King: $(1 - 0.936B) (X_t - 8.8) = (1 - 0.814B)a_t.$ ARMA(1,1).

William: $(1 - 0.679B) (X_t - 94.5) = a_t.$ AR(1).

Robert: $(1 - 0.792B) (X_t - 127.5) = a_t.$ AR(1).

Nora: $(1 - 0.825B) (X_t - 96.2) - (1 - 0.353)a_t.$ ARMA(1,1).

Non-Residential

January 1964 through May 1974

Boy: $(1 - 0.490B)(Y_t - 41.7) = a_t.$ AR(1).

Charlie: $Y_t - Y_{t-1} = (1 - 0.860B)a_t.$ IMA(0,1,1).

David: $Y_t - Y_{t-1} = (1 - 0.844B)a_t.$ IMA(0,1,1).

Queen: $(1 - 0.360B - 0.346B^2)(Y_t - 28.6) = a_t.$ AR(2).

Union: $(1 - 0.535B)(Y_t - 20.4) = a_t.$ AR(1)

George: $Y_t - Y_{t-1} = (1 - 0.773B)a_t.$ IMA(0,1,1).

King: $Y_t - Y_{t-1} = (1 - 0.875B)a_t.$ IMA(0,1,1).

William: $(1 - 0.425B)(Y_t - 37.3) = a_t.$ AR(1).

Robert: $(1 - 0.415B - 0.273B^2)(Y_t - 41.8) = a_t.$ AR(2).

Nora: $(1 - 0.877B)(Y_t - 32.6) = (1 - 0.629B)a_t.$ ARMA(1,1).

The reason for selecting these few origins was, they were turning points either at the peak or at the bottom. On the basis of these few periods, it seems that the forecasts are accurate in only predicting the direction or the turn, but wide of the magnitude. More forecasts were made at time periods other than the turning points on some other series. They show premature forecasts of turning directions in stationary autoregression models. It is a characteristic of the stationary autoregression model to forecast toward the mean level of the series when the origin of forecast is either above or below the mean level. The three sets of forecasts are plotted in Figure 4.1.

The city-wide burglaries by month during the period of January, 1966 through March, 1974, which has been analyzed above, consists of two major component series: residential and nonresidential. Several computer runs of the residential burglary series seem to suggest that the nature of the series changed after 1966. Therefore, January 1967 has been selected as the starting point for the series. More runs of the series suggest the following first order difference model:

$$X_t - X_{t-1} = \hat{a}_t$$

where a_t is the random disturbance.

The nonresidential burglary series seem quite different from the residential series. January, 1964 has been selected as the starting point. Preliminary runs point toward a mixed model or AR(1) and MA(1):

$$(1 - 0.93171 \ B) \ (Y_t - 301.75) = (1 - 0.37095 \ B)$$

Neither series show any seasonality.

The analyses above show that the nature of the various burglary series differ from one another. They vary among sectors as well as car beats. Most of them are stationary in nature for the period of study; some of them are not. Many of them fit the autoregression model while some display moving average behavior. There is no way to characterize them in generalization. However, they are all dominated by random disturbances, which do not help our effort to find systematic tendencies in those series. The lack of strong systematic tendencies in the series also hampers our hope to forecast their future outcomes. The forecasting of the series needs further study and analysis to evaluate its performance and ability.

TABLE 5.1

	1972-73	1973-74	Difference	Rank	Negative Rank Sum	Positive Rank Sum
Sept.	239*	343	-104	-11	-11	
Oct.	308	288	20	3		3
Nov.	296	316	- 20	- 3	- 3	
Dec.	317	329	- 12	- 1	- 1	
Jan.	302	322	- 20	- 3	- 3	
Feb.	302	248	54	8		8
March	303	256	47	5		5
April	310	248	62	10		10
May	306	357	- 51	- 7	- 7	
June	259	373	-114	-12	-12	
July	291	352	- 61	- 9	- 9	
Aug.	313	362	- 49	- 6	- 6	
Total	3,546	3,794			-52	26

$N = 12$, $T = 26$. $T = 26$ is not significant at 5% level.

*These are rounded off numbers

There are eight negative differences and four positive differences through these twelve months. This shows that although eight months out of twelve show increase, no definite statistical conclusion can be drawn here.

The difference d is obtained here by subtracting the figure for a particular month (say September) of 1973 from that of the same month of 1972. Since the September 1973 figure of 343 is greater than the September 1972 figure of 239, the difference is -104, which is an increase from 1972 to 1973. Similarly, a positive difference means the 1973-74 figure is smaller than the corresponding monthly figure of 1972-73; hence, a decrease.

The second illustration concerns the number of reported residential burglaries of the seven non-testing sectors: D, Q, U, K, W, R and N.

TABLE 5.2

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	397	454	- 57	- 4	- 4	
Oct.	413	535	-122	-10	-10	
Nov.	514	614	-100	- 5	- 5	
Dec.	522	726	-104	- 6.5	- 6.5	
Jan.	472	584	-112	- 9	- 9	
Feb.	451	561	-110	- 8	- 8	
March	468	504	- 36	- 2	- 2	
April	460	479	- 19	- 1	- 1	
May	376	555	-179	-12	-12	
June	389	493	-104	- 6.5	- 6.5	
July	428	551	-123	-11	-11	
Aug.	476	521	- 45	- 3	- 3	
Total	5,366	6,577			-78	0

$N = 12$, $T = 0$. $T = 0$ is significant at 5% level.

All twelve differences are negative. This means that the reported

residential burglary increased every month from the 1972-73 period to

the 1973-74 period.

The percentage increase from the base period of September 1972 through

August 1973 to the testing period of September 1973 through August 1974

is 6.9% for the three testing sectors while the percentage increase for

the seven non-testing sectors is 22.%; more than three times that of the

testing sectors. The percentage increases are obtained in the following

way. [('72-3 total) - ('73-4 total)] / ('72-3 total) = (3,546 - 3,794)/

3,546 = -6.9% for testing sectors. (5,366 - 6,577)/5,366 = -22.5%

for the non-testing sectors.

The meaning of the significance level has been stated in paragraph F

of Section 2 above on procedure and will be further explained here.

The presumption or the hypothesis to be tested by the Wilcoxon pro-

cedure is always that there was no difference between the base period

and the test period with respect to the data series, whichever it is,

unless the value of T is smaller than a critical number from the prob-

ability table for the Wilcoxon Test. The value of T is the smaller of the

sums of the liked-signed ranks which can be either negative or positive.

If the absolute value of a negative T is less than or equal to the critical

value from the probability table, the presumption or hypothesis of no

difference between the two periods is rejected and the conclusion of

significant increase in the series from the base period to the test period

TABLE 5.3

QUANTILES OF THE WILCOXON SIGNED RANKS TEST STATISTIC

Two-tail	T.01	T.02	T.05	T.10	T.20
N = 4	0	0	0	0	0
5	0	0	0	0	2
6	0	0	0	2	4
7	0	0	2	4	6
8	0	2	4	6	8
9	2	3	6	8	11
10	3	5	8	11	14
11	5	7	11	14	17
12	7	10	14	17	21
13	10	13	17	21	26
14	13	16	21	25	31
15	16	20	25	30	36

SOURCE. Adapted from Table G, Sidney Siegel: Nonparametric
Statistic for the Behavioral Sciences, McGraw Hill, 1956,
New York, p. 254, and Table 7, W.J. Conover: Practical
Nonparametric Statistics, Wiley, 1971, New York, p. 383.

B. Results

In this chapter, all three test sectors were treated as one area and the rest of the city as the other. Wilcoxon tests were performed on the number of reported burglaries (residential, nonresidential, and total) in those two areas and on the ratio of the two areas. It is hoped that the reader will get an overall comparison between the test sectors and the rest of the city.

Table 5·11 shows a unique pattern; that is, all the Wilcoxon tests on three ratios - reported total burglaries, reported residential burglaries and reported nonresidential burglaries, have significant decrease at the 5% level. Not only that, but also the average decrease percentage was more than 10%, which is one of the objectives of the grant. In Table 5·4, there is another unique pattern; that is, the three kinds of reported burglary studies in the test area do not have statistically significant increase. However, the studies in non-test areas do show statistically significant increase at the 5% level. This gives a further check on the analysis and conclusion.

TABLE 5·4

Wilcoxon Tests of the Numbers of Reported Burglaries in Test Area and Nontest Area

	Number of Zero Differences	Negative Rank Sum (increase)	Positive Rank Sum (decrease)	Significant at %	Remarks
Reported Total Burglaries					
Test Area	0	−54	24.0		
Nontest Area	0	−78.0	0	5	Significant increase
Reported Residential Burglaries					
Test Area	0	−46.0	32.0		
Nontest Area	0	−78.0	0	5	Significant increase
Reported Nonresidential Burglaries					
Test Area	0	−29	49		
Nontest Area	0	−71	7	5	Significant increase

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TABLE 5·5

Wilcoxon Test of the Test Areas for Reported Total Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	306.34	417.58	-111.24	-12	-12	
Oct.	394.10	357.47	36.63	6		6
Nov.	361.89	387.39	- 25.50	- 3	- 3	
Dec.	424.49	432.61	- 8.12	- 2	- 2	
Jan.	394.23	427.64	- 33.41	- 5	- 5	
Feb.	377.55	334.35	43.20	7		7
March	410.24	412.66	- 2.42	- 1	- 1	
Apr.	411.39	330.25	81.13	11		11
May	403.08	454.93	- 51.85	- 8	- 8	
June	389.69	441.85	- 52.16	-10	-10	
July	409.16	461.27	- 52.11	- 9	- 9	
Aug.	418.13	447.99	- 29.86	- 4	- 4	
Total	4700.29	4905.99			-54	24
Average	391.691	408.833				

4.4% increase

It is not statistically significant.

TABLE 5·6

Wilcoxon Test of the Test Areas for Reported Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	238.98	343.11	-104.13	-11	-11	
Oct.	307.58	287.65	19.93	2		2
Nov.	296.20	316.20	- 20.00	- 3	- 3	
Dec.	317.34	328.53	- 11.19	- 1	- 1	
Jan.	302.18	322.24	- 20.06	- 4	- 4	
Feb.	302.10	247.99	54.11	8		8
March	303.21	256.35	46.85	5		5
Apr.	309.78	248.30	61.47	10		10
May	305.95	356.62	- 50.67	- 7	- 7	
June	259.21	372.84	-113.63	-12	-12	
July	291.12	351.76	- 60.64	- 9	- 9	
Aug.	312.81	362.09	- 49.28	- 6	- 6	
Total	3546.40	3793.68			-53	25
Average	295.54	316.14				

6.9% increase

It is not statistically significant.

TABLE 5·7

Wilcoxon Test of the Test Areas for Reported Non-Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	67.35	74.47	- 7.12	- 4	- 4	
Oct.	86.52	69.82	16.70	8		8
Nov.	65.69	71.19	- 5.50	3		3
Dec.	107.15	104.08	3.06	2		2
Jan.	92.05	105.39	-13.35	- 7	- 7	
Feb.	75.45	86.35	-10.90	- 6	- 6	
March	107.03	156.30	-49.27	-11	-11	
Apr.	101.61	81.95	19.66	10		10
May	97.13	98.31	- 1.18	- 1	- 1	
June	130.48	69.02	61.46	12		12
July	118.04	109.50	8.53	5		5
Aug.	105.32	85.90	19.42	9		9
Total	1153.82	1112.28			-29	49
Average	96.152	92.690				

3.6% decrease

It is not statistically significant.

TABLE 5·8

Wilcoxon Test of the Non-Test Areas for Reported Total Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	540.61	613.34	- 72.74	- 4	- 4	
Oct.	577.82	718.41	-140.60	- 7	- 4	
Nov.	716.06	807.49	- 91.44	- 6	- 6	
Dec.	712.34	938.22	-225.87	-12	-12	
Jan.	632.69	799.17	-166.48	-10	-10	
Feb.	614.36	771.54	-157.18	- 9	- 9	
March	630.64	771.25	- 80.60	- 5	- 5	
Apr.	640.45	671.60	- 31.15	- 3	- 3	
May	562.82	752.89	-190.07	-11	-11	
June	626.20	651.03	- 24.83	- 1	- 1	
July	610.72	752.62	-141.89	- 8	- 8	
Aug.	673.76	704.84	- 31.08	- 2	- 2	
Total	7538.47	8952.44			-78	0
Average	628.206	746.033				

18.8% increase

It is significant increase at 5% level.

TABLE 5·9

Wilcoxon Test of the <u>Non-Test</u> Areas for Reported Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	397.00	453.83	– 56.83	– 4	– 4	
Oct.	413.39	535.26	–121.88	– 9	– 9	
Nov.	513.77	613.72	– 99.95	– 5	– 5	
Dec.	521.56	726.38	–204.82	–12	–12	
Jan.	471.77	583.63	–111.86	– 8	– 8	
Feb.	450.84	560.95	–110.10	– 7	– 7	
March	467.72	503.61	– 35.89	– 2	– 2	
Apr.	460.12	478.63	– 18.51	– 1	– 1	
May	376.00	555.29	–179.28	–11	–11	
June	388.73	493.09	–104.36	– 6	– 6	
July	427.81	551.16	–123.35	–10	–10	
Aug.	476.13	520.80	– 44.67	– 3	– 3	
Total	5364.84	6576.35			–78	0
Average	447.07	548.03				

22.5% increase

It <u>is</u> significant increase at 5% level.

TABLE 5·10

Wilcoxon Test of the Non-Test Areas for Reported Non-Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	143.61	159.51	-15.90	- 5	- 5	
Oct.	164.43	183.15	-18.72	- 7	- 7	
Nov.	203.29	193.77	8.51	1		1
Dec.	190.78	211.84	-21.05	- 8	- 8	
Jan.	160.92	215.54	-54.63	-11	-11	
Feb.	163.52	210.59	-47.08	-10	-10	
March	162.92	207.67	-44.72	- 9	- 9	
Apr.	180.33	192.97	-12.64	- 3	- 3	
May	186.82	197.60	-10.79	2		2
June	237.47	157.95	79.53	-12	-12	
July	182.91	201.45	-18.54	- 6	- 6	
Aug.	197.63	184.04	13.59	4		4
Total	2173.63	2316.38			-71	7
Average	181.136	193.032				

6.6% increase

It _is_ significant increase at 5% level.

TABLE 5·11

$$\text{Wilcoxon Tests of } \frac{\text{Test Sectors}}{\text{Non-Test Sectors}}$$

	Number of Zero Differences	Negative Rank Sum (increase)	Positive Rank Sum (decrease)	Significant at %	Remarks
Reported Residential Burglaries	0	−13	65	5	12.1% decrease (see table 5.12)
Reported Non-Residential Burglaries	0	−14	64	5	10.3% decrease (see table 5.13)
Reported Total Burglaries	0	−12	66	5	10.9% decrease (see table 5.14)

TABLE 5·12

Wilcoxon Test of $\dfrac{\text{Test Sectors}}{\text{Non Test Sectors}}$ for Reported Total Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	56.67%	68.08%	-11.42%	- 8	- 8	
Oct.	68.20%	49.76%	18.45%	12		12
Nov.	50.54%	47.97%	2.56%	2		2
Dec.	59.59%	46.11%	13.48%	9		9
Jan.	62.31%	53.51%	8.80%	6		6
Feb.	61.45%	43.33%	18.12%	11		11
March	65.05%	58.02%	7.03%	5		5
Apr.	64.23%	49.17%	15.06%	10		10
May	71.62%	60.42%	11.19%	7		7
June	62.23%	67.87%	- 5.64%	- 3	- 3	
July	67.00%	61.29%	5.71%	4		4
Aug.	62.06%	63.56%	- 1.50%	- 1	- 1	
Total	750.95%	669.09%			-12	66
Average	62.57%	55.758%				

10.9% decrease

It is significant decrease at 5% level.

TABLE 5·13

Wilcoxon Test of $\frac{\text{Test Sectors}}{\text{Non Test Sectors}}$ for Reported Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	60.20%	75.60%	-15.40%	- 7	- 7	
Oct.	74.40%	53.74%	20.67%	11		11
Nov.	57.65%	51.52%	6.13%	3		3
Dec.	60.84%	45.23%	15.62%	9		9
Jan.	64.05%	55.21%	8.84%	4		4
Feb.	67.01%	44.21%	22.80%	12		12
March	64.83%	50.90%	13.92%	6		6
Apr.	67.32%	51.88%	15.45%	8		8
May	81.37%	64.22%	17.15%	10		10
June	66.68%	75.61%	- 8.93%	- 5	- 5	
July	68.05%	63.82%	4.23%	2		2
Aug.	65.70%	69.53%	- 3.83%	- 1	- 1	
					-13	65
Average	66.508%	58.456%				

12.1% decrease

It _is_ significant decrease at 5% level.

TABLE 5·14

Wilcoxon Test of $\dfrac{\text{Test Sectors}}{\text{Non Test Sectors}}$ for Reported Non-Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	46.90%	46.69%	.21%	1		1
Oct.	52.62%	38.12%	14.49%	12		12
Nov.	32.47%	36.74%	- 4.27%	- 3	- 3	
Dec.	56.16%	49.13%	7.03%	6		6
Jan.	57.20%	48.90%	8.30%	7		7
Feb.	46.14%	41.00%	5.14%	4		4
March	65.69%	75.28%	- 9.58%	- 8	-11	
Apr.	56.35%	42.47%	13.88%	11		11
May	51.99%	49.75%	2.24%	2		2
June	54.95%	43.70%	11.25%	10		10
July	64.53%	54.36%	10.18%	9		9
Aug.	53.29%	46.67%	6.62%	5		5
					-14	64
Average	53.19%	47.73%				

10.3% decrease

It is significant decrease at 5% level.

VI. ANALYSES OF CITY-WIDE REPORTED BURGLARIES

In this chapter, city-wide reported burglaries were studied. The results are presented in three tables which deal with the number of reported total burglaries, reported residential burglaries and reported nonresidential burglaries. Table 6·1, 6·2, and 6·3, total burglaries and residential burglaries show statistically significant increase at 5% and 10% level respectively. Although the reported nonresidential burglary study did not show significant increase, there was a tendency to increase.

TABLE 6·1

Wilcoxon Test on City-wide Number of Total Reported Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	847*	1031	-184	- 8	- 8	
Oct.	972	1076	-104	- 5	- 8	
Nov.	1078	1195	-117	- 7	- 7	
Dec.	1137	1371	-234	-11	-11	
Jan.	1027	1227	-200	-10	-10	
Feb.	992	1106	-114	- 6	- 6	
March	1041	1124	- 83	- 4	- 4	
Apr.	1052	1002	50	1		1
May	966	1208	-242	-12	-12	
June	1016	1093	- 77	- 3	- 3	
July	1020	1214	-194	- 9	- 9	
Aug.	1092	1153	- 61	- 2	- 2	
Total	12240	13800			-77	1
Average	1020	1150				

13% increase

N = 12, T = 1, it is statistically significant increase at 5% level.

*These are rounded off numbers

TABLE 6·2

Wilcoxon Test on City-wide Number of Reported Residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	636	797	-161	- 8	- 8	
Oct.	721	823	-102	- 5	- 5	
Nov.	810	930	-120	- 6	- 6	
Dec.	839	1055	-216	-10	-10	
Jan.	774	906	-132	- 7	- 7	
Feb.	753	809	- 56	- 3	- 3	
March	771	760	11	1		1
Apr.	770	727	43	2		2
May	682	912	-230	12		12
June	648	866	-218	-11	-11	
July	719	903	-184	- 9	- 9	
Aug.	789	883	- 94	- 4	- 4	
Total	8,912	10,371			-63	15
Average	742.67	864.25				

16.4% increase

$N = 12$, $T = 15$, which is significant at 10% level.

TABLE 6·3

Wilcoxon Test on City-wide Number of Reported Non-residential Burglaries

	1972-73	1973-74	Difference	Rank	Negative Rank Sum (increase)	Positive Rank Sum (decrease)
Sept.	211	234	- 23	- 7	- 7	
Oct.	251	253	- 2	- 1	- 1	
Nov.	268	265	3	2		2
Dec.	298	316	- 18	- 6	- 6	
Jan.	253	321	- 68	-10	-10	
Feb.	239	297	- 58	- 9	- 9	
March	270	364	- 94	-11	-11	
Apr.	282	275	7	3		3
May	284	296	- 12	- 5	- 5	
June	368	227	141	12		12
July	301	311	- 10	- 4	- 4	
Aug.	303	270	33	8		8
Total·	3328	3429			-53	25
Average	277.33	285.75				

3% increase

N = 12, T = 25, which is not significant. However, there is a tendency to increase, although it is not statistically significant.

VII. ANALYSES OF TEST SECTORS

In this chapter, all the car beats in the three test sectors were tested to see if there was significant change in two periods - the test period and the prior base period. The test period is from September 1973 through July 1974, and the base period is from September 1972 through July 1974. However, the ending months for the reported burglary studies were through August for both periods. That means there were twelve monthly figures in each period for the reported burglary volume study.

Most Wilcoxon Tests of a sector or a car beat do not show significant increase or decrease in the statistical series between the two periods. However, some tests do. For those tests showing significant change between the periods, the statistical significance levels vary. Some of them are significant at the level of five percent or less, which means that there is only five percent chance or less that the change indicated by the Wilcoxon Test of the statistical series was an accident. Some tests are significant at the level of ten percent, which means that there is a ten percent chance that the indicated change was a statistical fluke and, hence, not as certain as those tests significant at five percent. Some tests are not significant even at ten percent level and yet they are exceptions within their groups. For example, Sector C is the only sector showing a decrease of reported burglaries, even though the decrease is not statistically significant. Those exceptions are noted in the "Remarks" column of the tables.

Table 7·1 is the summary table for all the Wilcoxon Test results of all the car beats in test sectors. The detail tables are attached in the Appendix III. The summary table is self-explanatory for all the studies. However, it should be noticed that the premises study is only related to the residential burglaries. We studied in three groups, houses, apartments and others. The others refer to those cases which happened in hotel, motel, dormitory --- and so on.

The maps are used to highlight the significant change or changes in the tables described above. Only when there is at least one significant change, a map will be used. For example, when a table shows a series of Wilcoxon Tests over the sectors and at least one sector shows significant change, a city sector map will show the significant change or changes. When a set of three tables show the Wilcoxon Tests over the car beats in the three test sectors, a test-sectors map will show all the significant changes in the car beats of the test sectors.

Interpreting the Wilcoxon test results for clearance, it would appear on the surface that car beats B7, C3, C5, C6 and C7 have relatively poor records, while car beat B5 has the apparent best one. This interpretation assumes decreases in clearance ratios are "bad" while increases are "good."

This result, however, was sufficiently surprising to cause further look at the data manipulation. It was found that the data array on which the Wilcoxon test was based measured the raw number of clearances between

this time period and last. This was discovered at the 11th hour, and time did not permit re-manipulation of the data. Given this approach, it would appear logical that in areas where the number of crimes went down, or to a lesser degree where the relative ratio of crimes went down, clearances would also decrease. The unanswered question remains the relative percentage of clearances per crime committed. Knowing this, these results can still be of interest although much more difficult to relate directly to the purpose of this grant.

There are some significant decreases in the ratio measure of burglaries with no force for entry in 12 of a total of 21 car beats in the three test sectors. Four of the twelve are C1, C2, C5 and C6 and these four significant decreases are all in residential burglaries. Car beat C1 contains the major portion of census tract 090 and C2 contains 092 and a small part of 111. Car beat C5 involves census tracts 110, 111, and 112, and C6 covers parts of 100 and 112. All these census tracts had some civilian work. However, tracts 091 and 101 do not show any significant decrease (in the ratio measure of residential burglaries with no force for entry.) Moreover, B7, G4 and G6 also show significant decrease in the ratio measure of residential burglaries with no force of entry while they were not exposed to any civilian work. Again, it is difficult to draw any definite conclusion here with respect to the car beats and the census tracts in Sector C.

While the results on the attached summary can (and should!) be examined in a wide variety of ways, one interesting approach might be a review of aggregate scores across the entire fifty-one columns.

We must first review the interpretation of good/bad (desireable/undesire-able) for each column. Increases would be bad in: (1) number of reported burglaries, (2) particularly residential burglaries (the prime target of the civilian component), (3) the ratio of reported burglaries and (4) the ratio of no force burglaries (particularly residential). Increases would, however, be good in (1) the ratio of recovered value/stolen value (2) the average recovered value where not balanced with a corresponding increase in average stolen value, and (3) clearances.

Since all but three or four columns are subject to the same qualitative interpretation, we can merely count the pluses (+) across fifty-one columns to obtain a rough comparison of the various car districts in the test areas. Refer to any of the maps for the geographic placement of the districts enum-erated.

B - 1	1 plus; 1 minus	no impact
B - 2	3 plus; 1 minus	no impact
B - 3	3 plus; 3 minus	no impact
B - 4	3 plus; 2 minus	no impact
B - 5	16 plus; 0 minus	probable impact in clearance
B - 6	5 plus; 4 minus	no impact
B - 7	2 plus; 19 minus	probable impact in crime reduction
B - 8	1 plus; 11 minus	probable negative impact

This fairly well follows the overall analysis which suggests that the project had minimal impact in this Sector. The result was expected in that implementation of the project elements was weakest in this Sector.

C - 1	1 plus; 6 minus	negligible impact
C - 2	2 plus; 7 minus	negligible impact
C - 3	0 plus; 7 minus	negative clearance score
C - 4	5 plus; 5 minus	. crime reduction - clearance increase
C - 5	3 plus; 13 minus	crime down - clearance down
C - 6	2 plus; 11 minus	crime and clearance down
C - 7	0 plus; 9 minus	negative clearance score

This Sector showed the best result of the three test Sectors. Caution must be counseled in over-interpreting the result, however. This Sector has displayed a downward trend compared with the rest of the city since 1969. We believe the grant activity accelerated that trend. In the apparently poor showing in clearances we confess puzzlement. Earlier analysis had indicated

a superior arrest rate for burglary detectives assigned. We suspect a problem in juvenile investigations which are not integrated into the project. In addition, we have identified a weakness in the manner of handling clearance statistics (see Table 7·1) which reduces the usefulness of these results.

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G - 1   2 plus; 5 minus   no impact

G - 2   4 plus; 5 minus   burglaries down - clearances up

G - 3   0 plus; 2 minus   negative clearance result

G - 4   7 plus; 3 minus   burglary up

G - 5   7 plus; 0 minus   burglary up

G - 6   1 plus; 4 minus   very little result

George Sector was quite mixed, as would be expected considering (1) implementation was weaker than in Charlie Sector, although somewhat better than Boy, and (2) the epicenter of these events has exhibited a long-term southward drift from "C" Sector to the southern boundary of "G". We must comment here that for future projects of this nature, evaluation should first consider such long-term movements before "pre-post" comparisons can be knowledgeably interpreted.

TABLE 7·1 Wilcoxon Test Results Summary Table – All Test Carbeat

CAR-BEAT	NO. OF REPORTED BURGLARIES			RATIO OF REPORTED BURGLARIES			RATIO OF PREMISES			MAJOR FORCE			MINOR FORCE			NO FORCE			AVERAGE STOLEN VALUE			AVERAGE RECOVERED VALUE			RECOVERED VALUE / STOLEN VALUE		
	T/B	R/B	N/B	T/B	R/B	N/B	HOUSE	APT.	OTHERS	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B
B1		.																(-)10		(+)10							
B2	(+)5	(+)5			(+)10													(-)10									
B3							(-)5		(+)5	(-)5	(-)5						(+)10										
B4		(+)5								(-)10								(-)10									
B5		(+)5							(+)10				(+)10							(+)5		(+)5		(+)5			(+)5
B6			(-)10															(-)10	(+)10	(+)5		(+)5			(+)5		(+)10
B7		(-)5		(-)5	(-)5		(-)5	(-)5		(-)10	(-)5						(-)5				(+)10	(+)10					
B8		(+)5								(-)10												(-)5	(-)5	(-)10	(-)5	(-)5	(-)5
C1					(-)10				(-)5								(-)5			(+)10							
C2			(-)5			(-)5	(-)10					(-)5					(-)10		(+)5	(+)5							
C3											(-)10																
C4				(-)5	(-)5				(-)10	(-)5	(-)5								(+)5	(+)5	(+)10						
C5				(-)5	(-)5					(-)10						(-)5	(-)5		(+)5	(+)5			(+)5				(-)10
C6				(-)10	(-)10											(-)5	(-)5		(+)5	(+)5							
C7			(-)10			(-)5												(-)5									.
G1															(+)10			(+)10					(-)10				(-)10
G2				(-)10	(-)5		(-)10			(-)10						(-)10			(+)5	(+)5							
G3																											
G4	(+)5	(+)5						(+)10		(+)5						(-)10	(-)5						(+)10				
G5	(+)10		(+)10			(+)10													(+)5	(+)5		(+)5	(+)5				
G6							(-)10									(-)5	(-)5										

TABLE 7·1 Wilcoxon Test Results Summary Table – All Test Carbeat (cont.)

CAR-BEAT	CLEARANCE (1)			CLEARANCE (2)			CLEARANCE (3)			CLEARANCE (4)			CLEARANCE (1) & (2)			CLEARANCE (3) & (4)			CLEARANCE (1) & (3)			CLEARANCE (2) & (4)		
	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B
B1																								
B2																								
B3													(+)10											
B4		(+)10												(+)10										
B5				(+)5		(+)10				(+)10	(+)10				(+)10		(+)5					(+)5	(+)10	(+)10
B6																			(-)10	(-)5				
B7	(-)5	(-)5								(-)5	(-)5		(-)10			(-)5	(-)5	(-)10	(-)5	(-)5				(-)10
B8							(-)5	(-)10								(-)5	(-)10							
C1											(-)10											(-)5	(-)5	
C2											(-)5						(-)10							
C3										(-)5	(-)5					(-)5	(-)5					(-)5	(-)5	
C4																		(+)10			(+)10			
C5											(-)10		(-)5			(-)5	(-)5	(-)10	(-)10		(-)10			
C6							(-)5	(-)5								(-)10	(-)10		(-)5	(-)10		(-)5		
C7	(-)5	(-)10														(-)5	(-)5		(-)5	(-)5				
G1										(-)5						(-)10	(-)10							
G2			(+)10	(+)10																				
G3										(-)10	(-)5													
G4				(+)5		(+)10					(-)10													
G5																								
G6				(+)10													(-)10							

T/B = REPORTED TOTAL BURGLARIES
R/B = REPORTED RESIDENTIAL BURGLARIES
N/B = REPORTED NONRESIDENTIAL BURGLARIES

(+) = SIGNIFICANT INCREASE
(-) = SIGNIFICANT DECREASE
5 = SIGNIFICANT DIFFERENCE AT 5% LEVEL
10 = SIGNIFICANT DIFFERENCE AT 10% LEVEL

CLEARANCE (1) = ARREST–ADULT OR ADULT WITH JUVENILE
CLEARANCE (2) = ARREST – JUVENILE ONLY
CLEARANCE (3) = EXCEPTIONAL–JUVENILE ONLY
CLEARANCE (4) = EXCEPTIONAL–JUVENILE ONLY
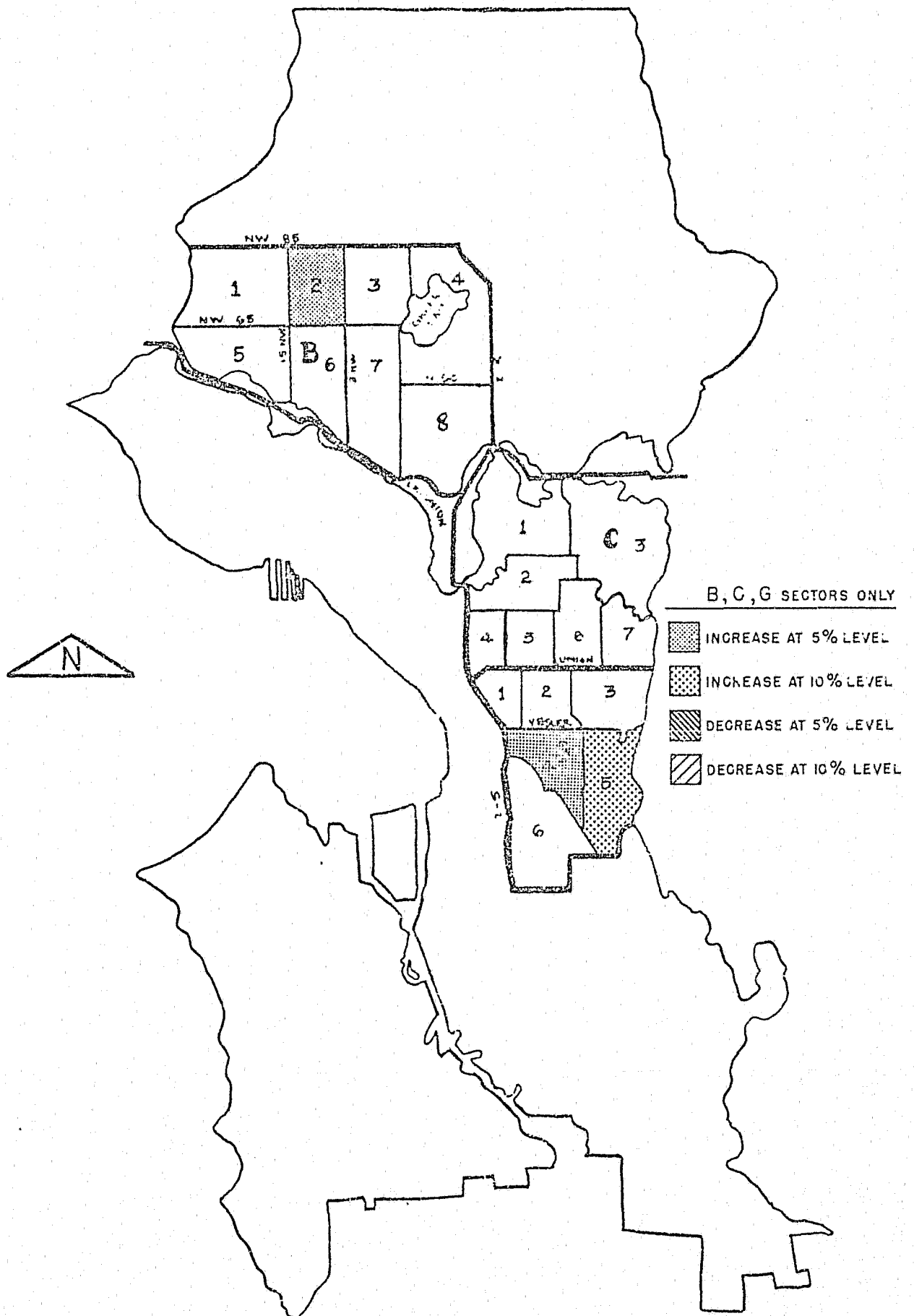
Map 7A1 — Wilcoxon Test of Numbers of Reported Total Burglaries —
Test Sectors (refer to Tables 7A1·1, 7A1·2 and 7A1·3)
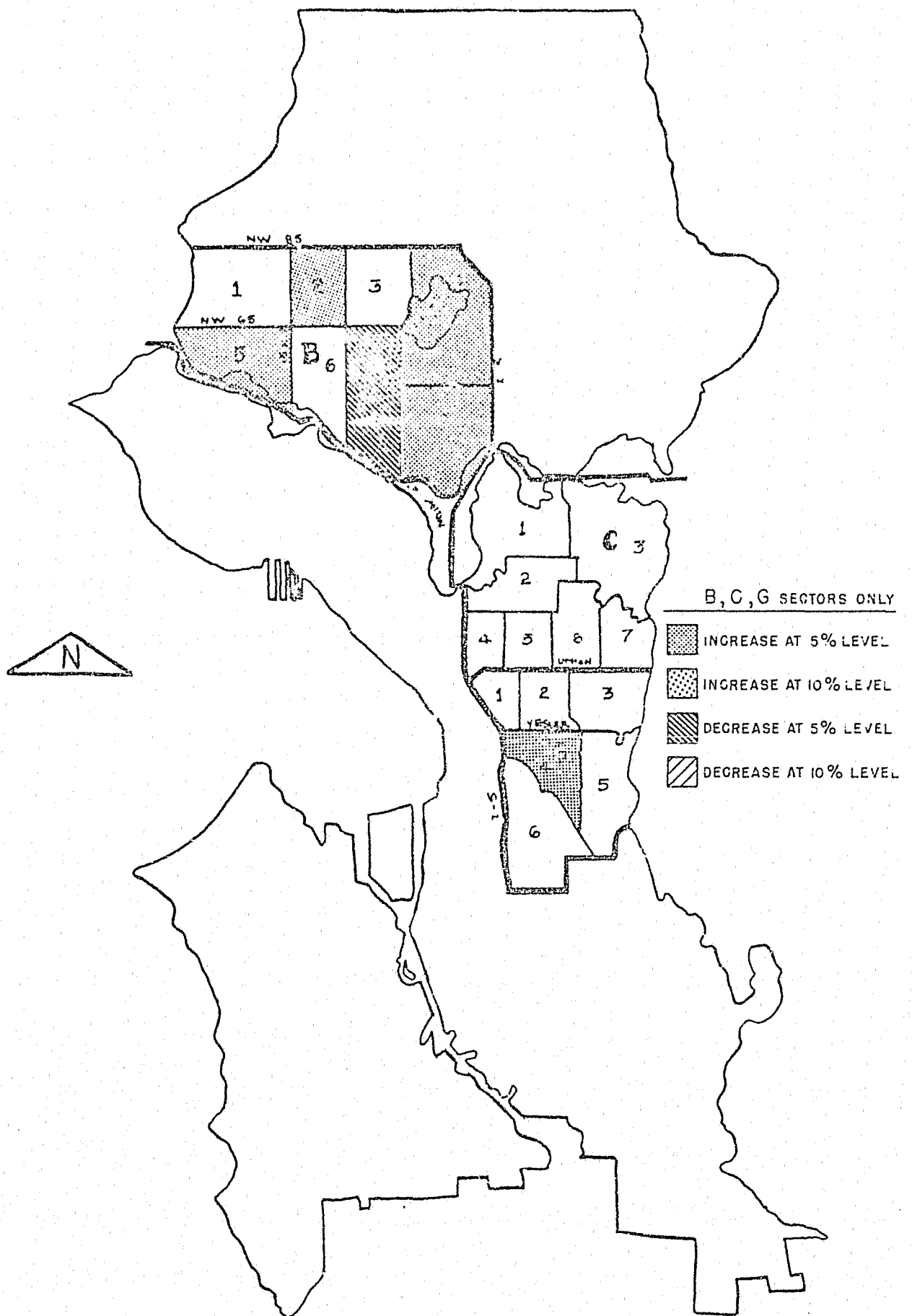
Map 7A2 – Wilcoxon Test of Numbers of Reported Residential Burglaries – Test Sectors (refer to Tables 7A2·1, 7A2·2 and 7A2·3)
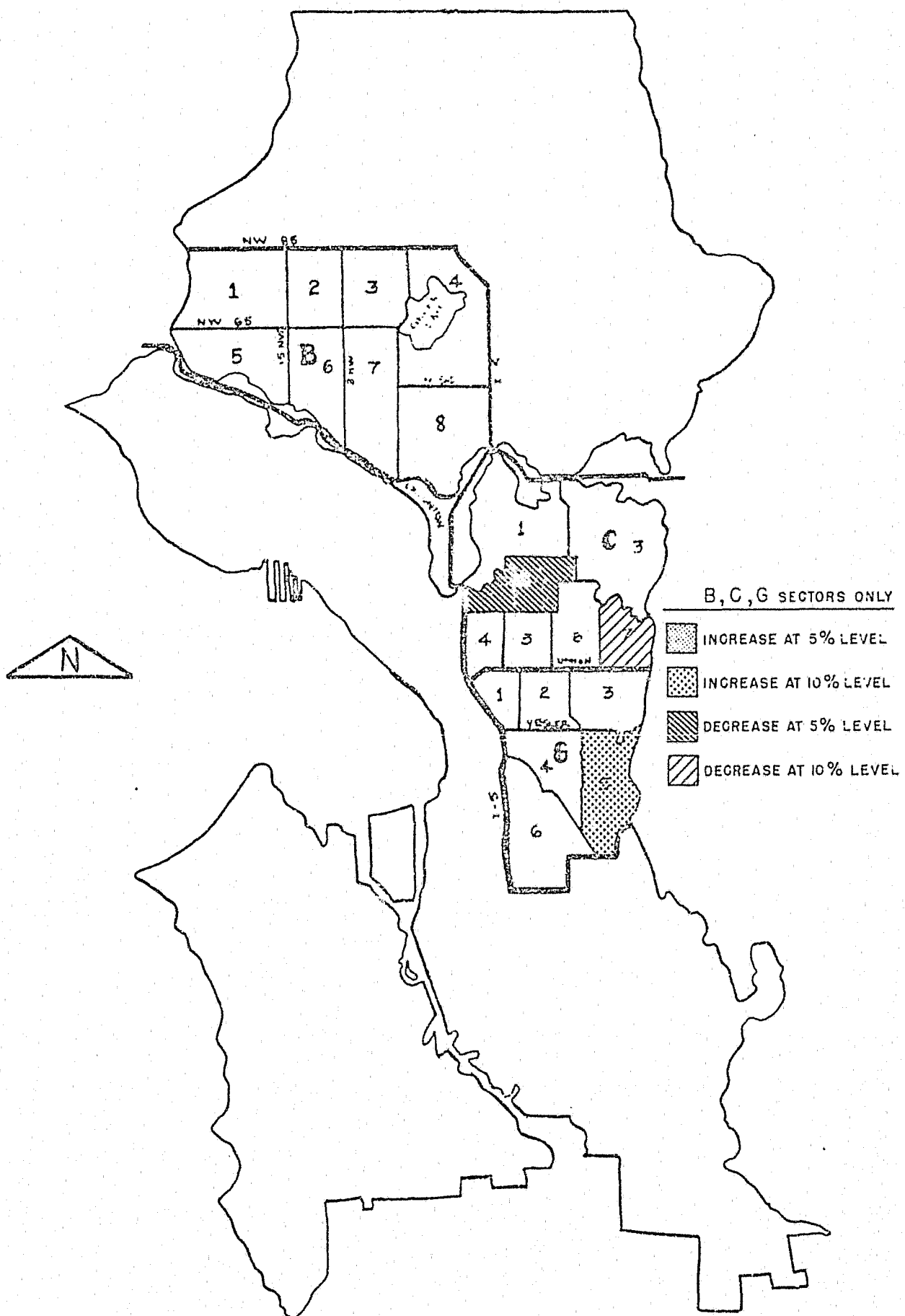
Map 7A3 – Wilcoxon Test of Numbers of Reported Nonresidential Burglaries – Test Sectors (refer to Tables 7A3·1, 7A3·2 and 7A3·3)

B,C,G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
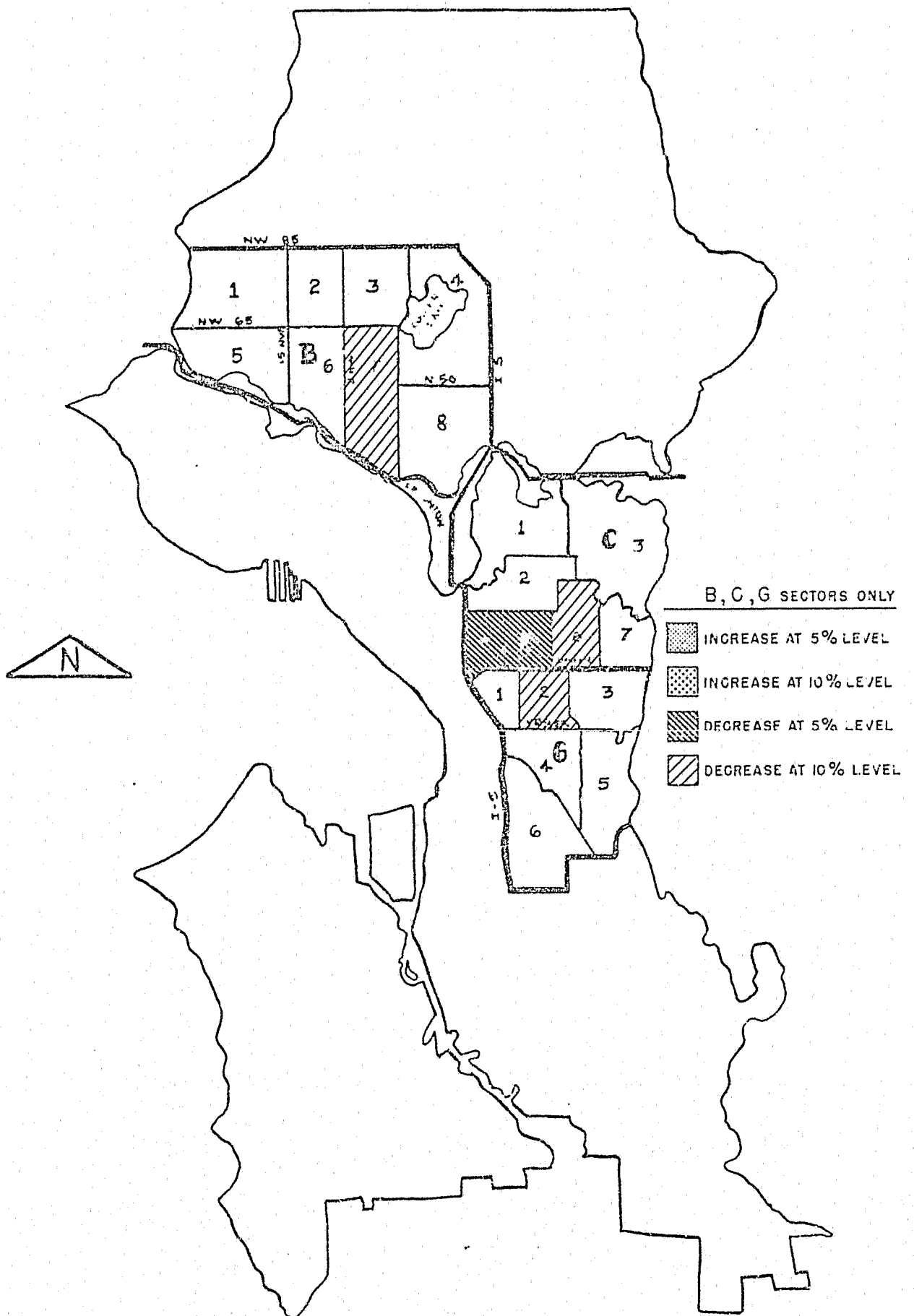
Map 7B1 -   Wilcoxon Test of Ratios of Reported Total Burglaries -
Test Sectors (refer to 7B1·1, 7B1·2 and 7B1·3)
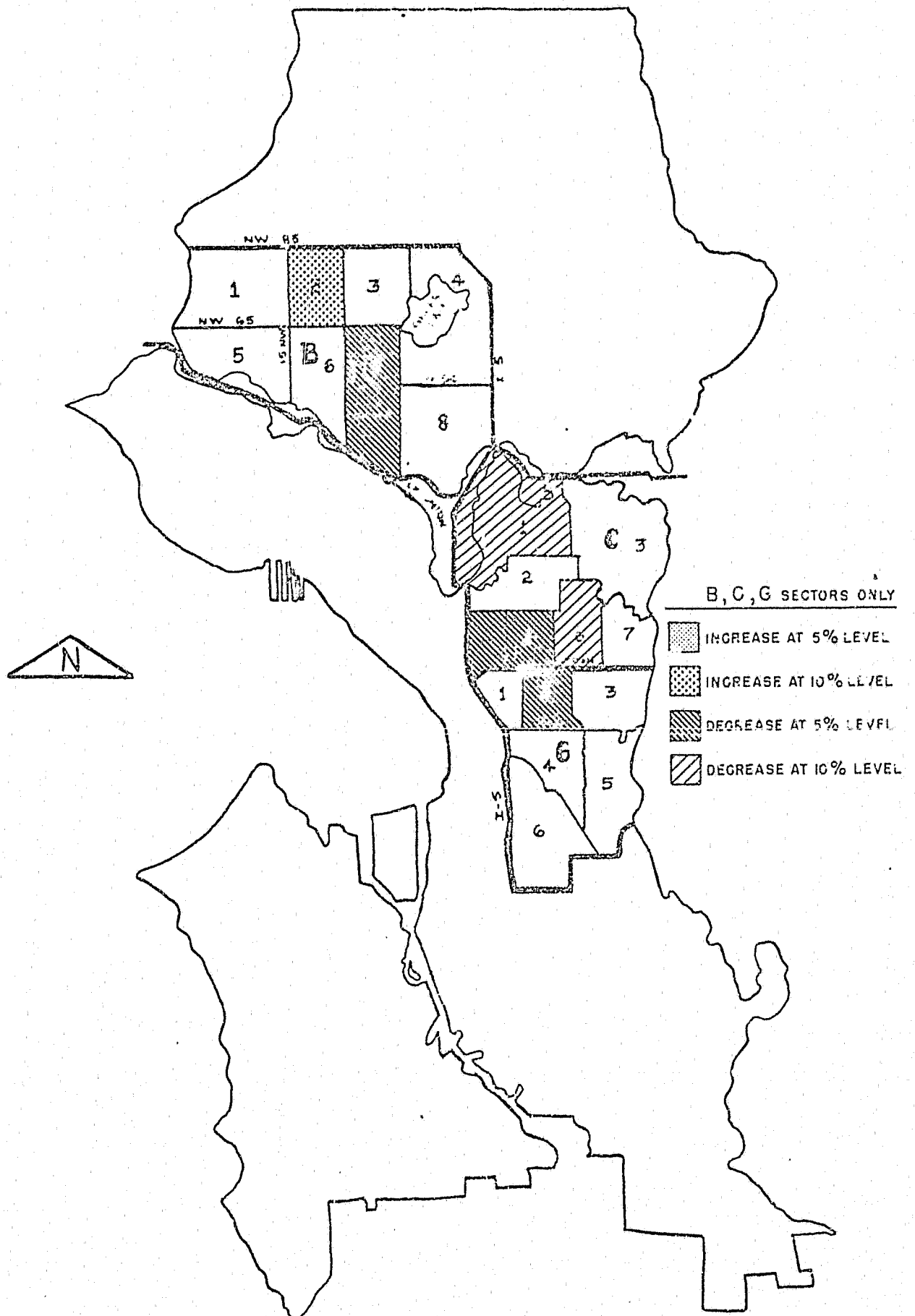
Map 7B2 –   Wilcoxon Test of Ratios of Reported Residential Burglaries –
Test Sectors   (refer to Tables 7B2·1, 7B2·2 and 7B2·3)
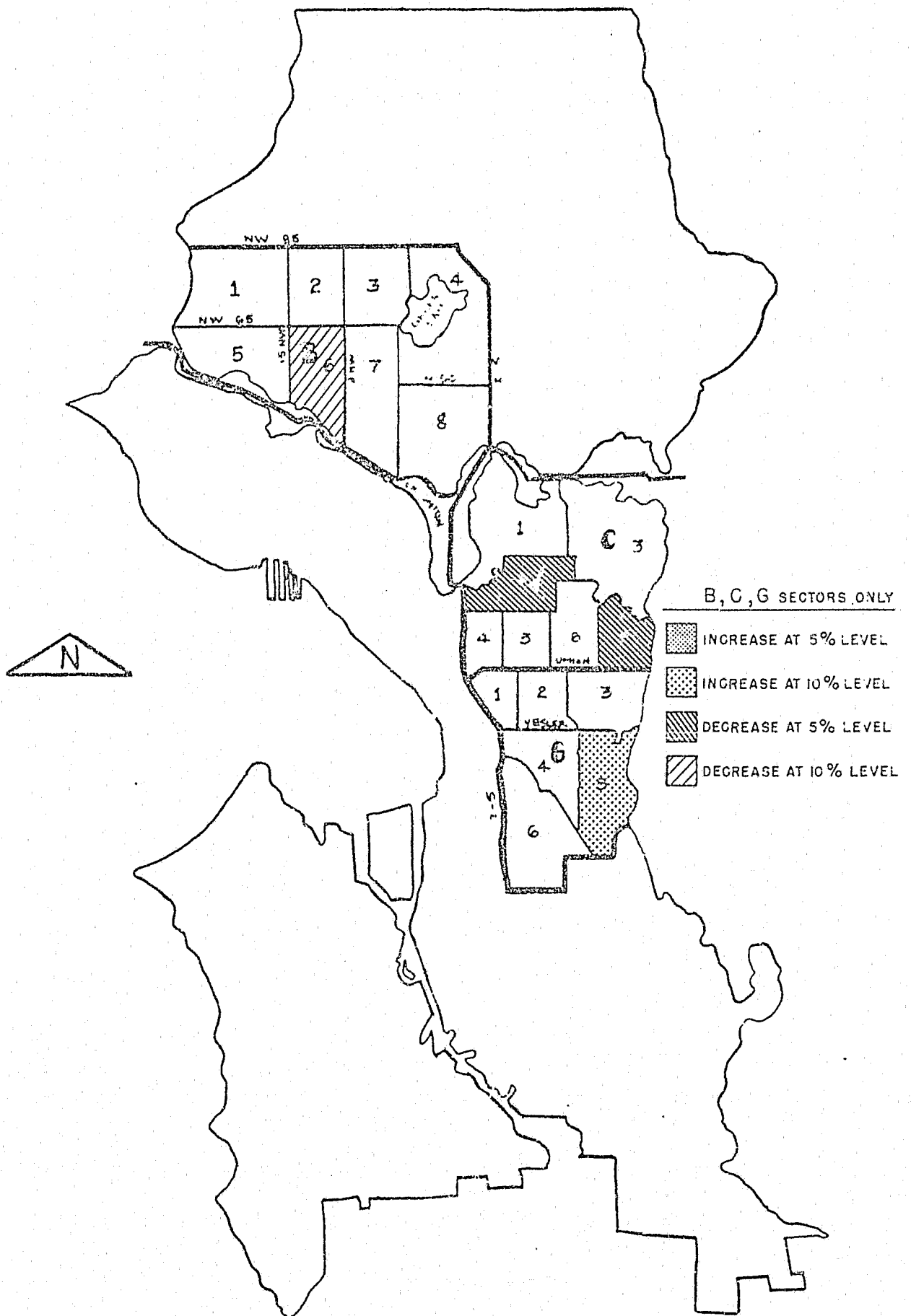
Map 7B3 – Wilcoxon Test of Ratios of Reported Nonresidential Burglaries – Test Sectors (refer to Tables 7B3·1, 7B3·2 and 7B3·3)
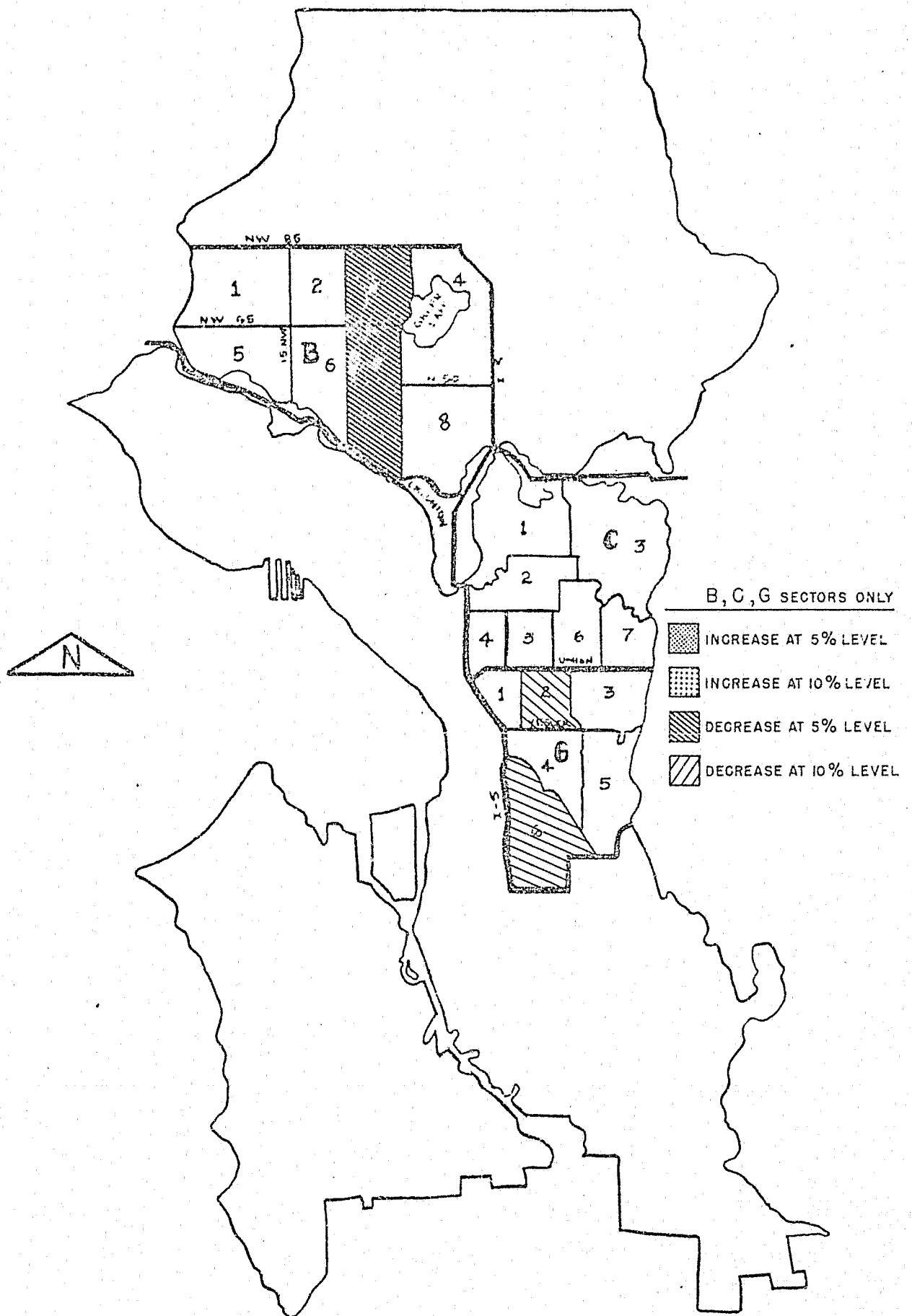
Map 7C1 – Wilcoxon Test of Reported House Burglary Ratios –
Test Sectors (refer to Tables 7C1·1, 7C1·2 and 7C1·3)
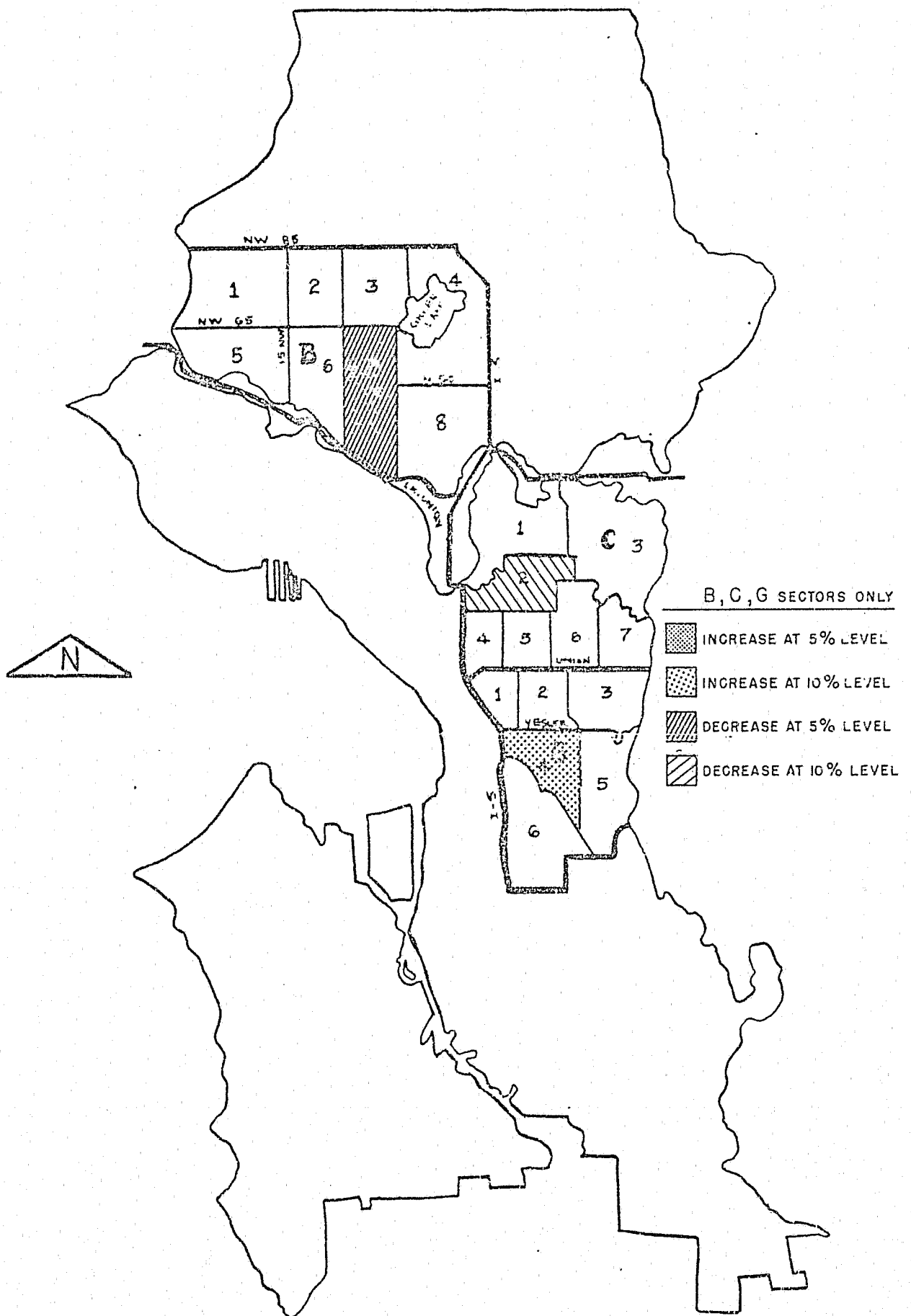
Map 7C2 – Wilcoxon Test of Reported Apartment Burglary Ratios –
Test Sectors (refer to Tables 7C2·1, 7C2·2 and 7C2·3)
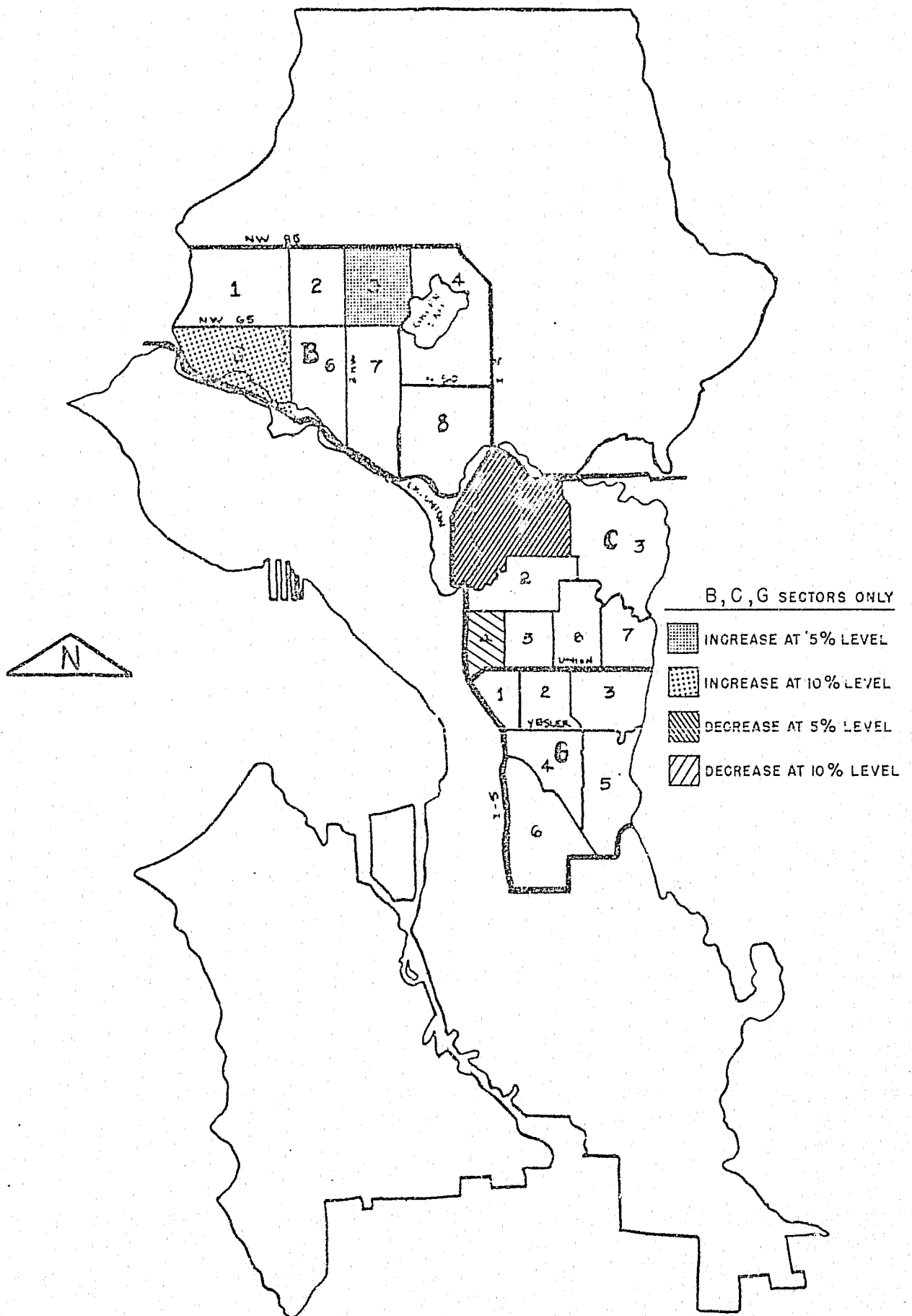
Map 7C3 -   Wilcoxon Test of Reported Other Burglary Ratios (Motel, Hotel,
the Dorms,...etc.) - Test Sectors
(refer to Tables 7C3·1, 7C3·2 and 7C3·3)
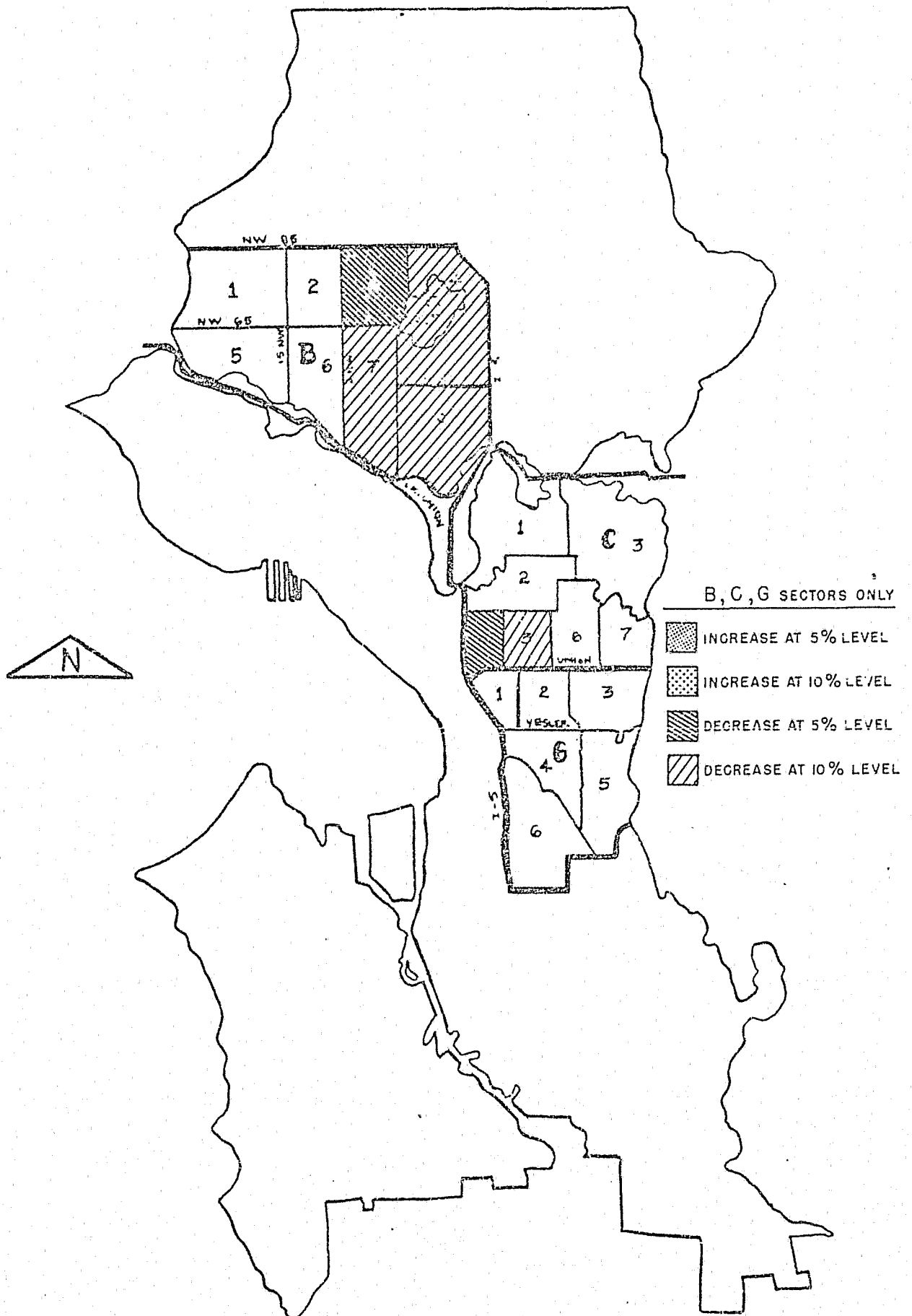
Map 7D1·1 – Wilcoxon Test of Reported Total Burglary Ratio With Major Force of Entry – Test Sectors (refer to Tables 7D1·1·1, 7D1·1·2 and 7D1·1·3)
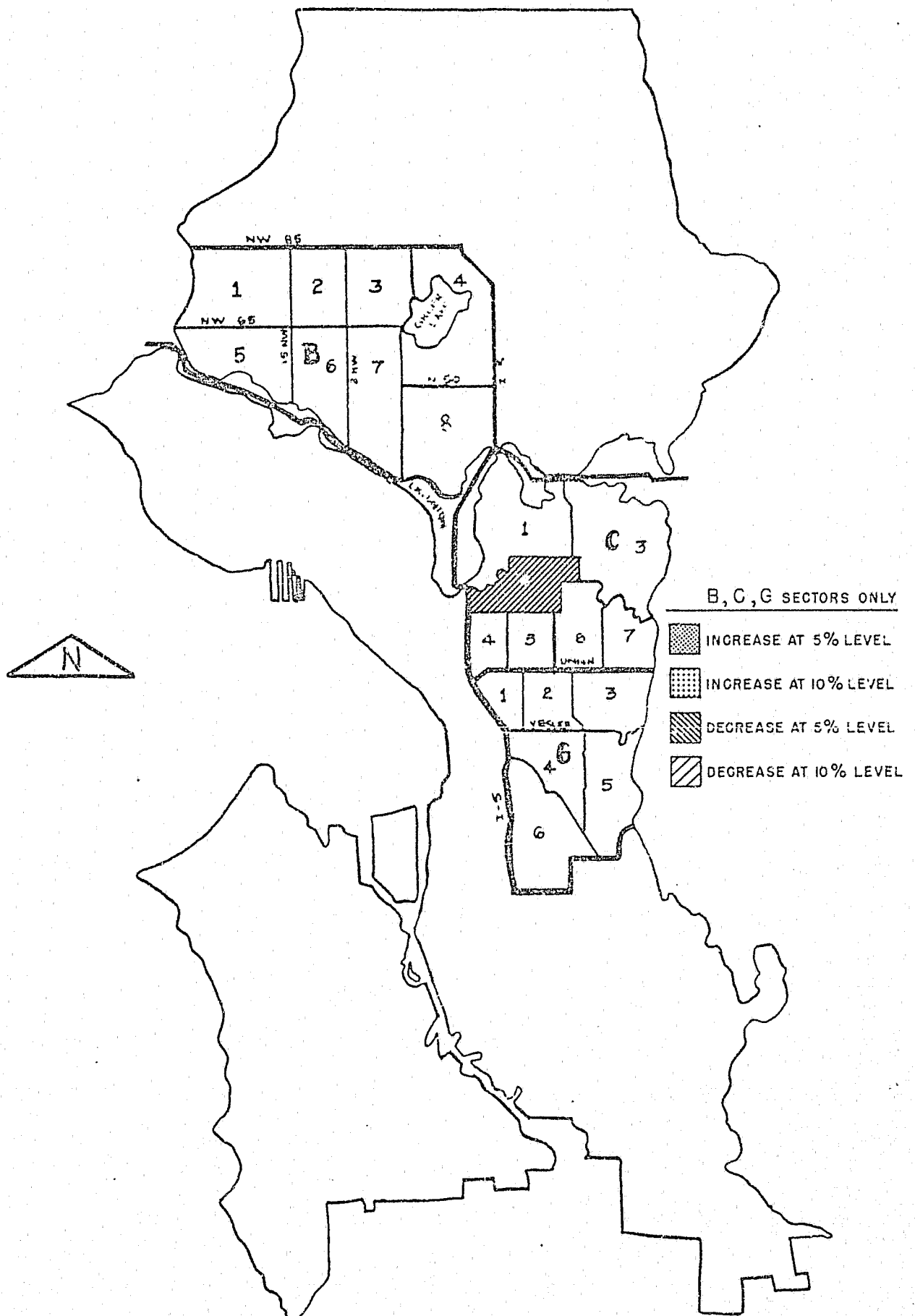
Map 7D1·3 –   Wilcoxon Test of Reported Nonresidential Burglary Ratio With
Major Force of Entry – Test Sectors
(refer to Tables 7D1·3·1, 7D1·3·2 and 7D1·3·3)
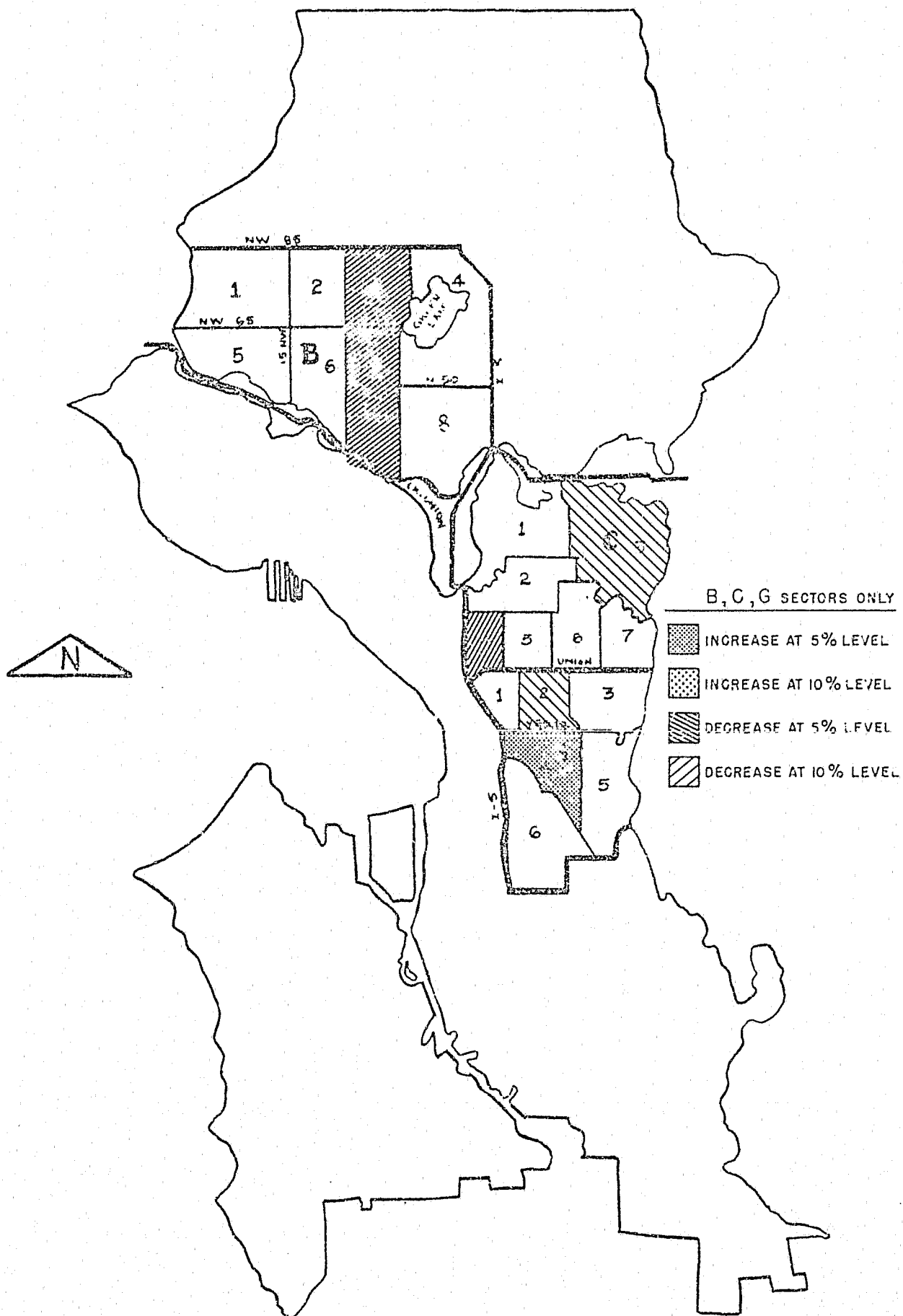
Map 7D1·2 – Wilcoxon Test of Reported Residential Burglary Ratio With
Major Force of Entry – Test Sectors
(refer to Tables 7D1·2·1, 7D1·2·2, and 7D1·2·3)
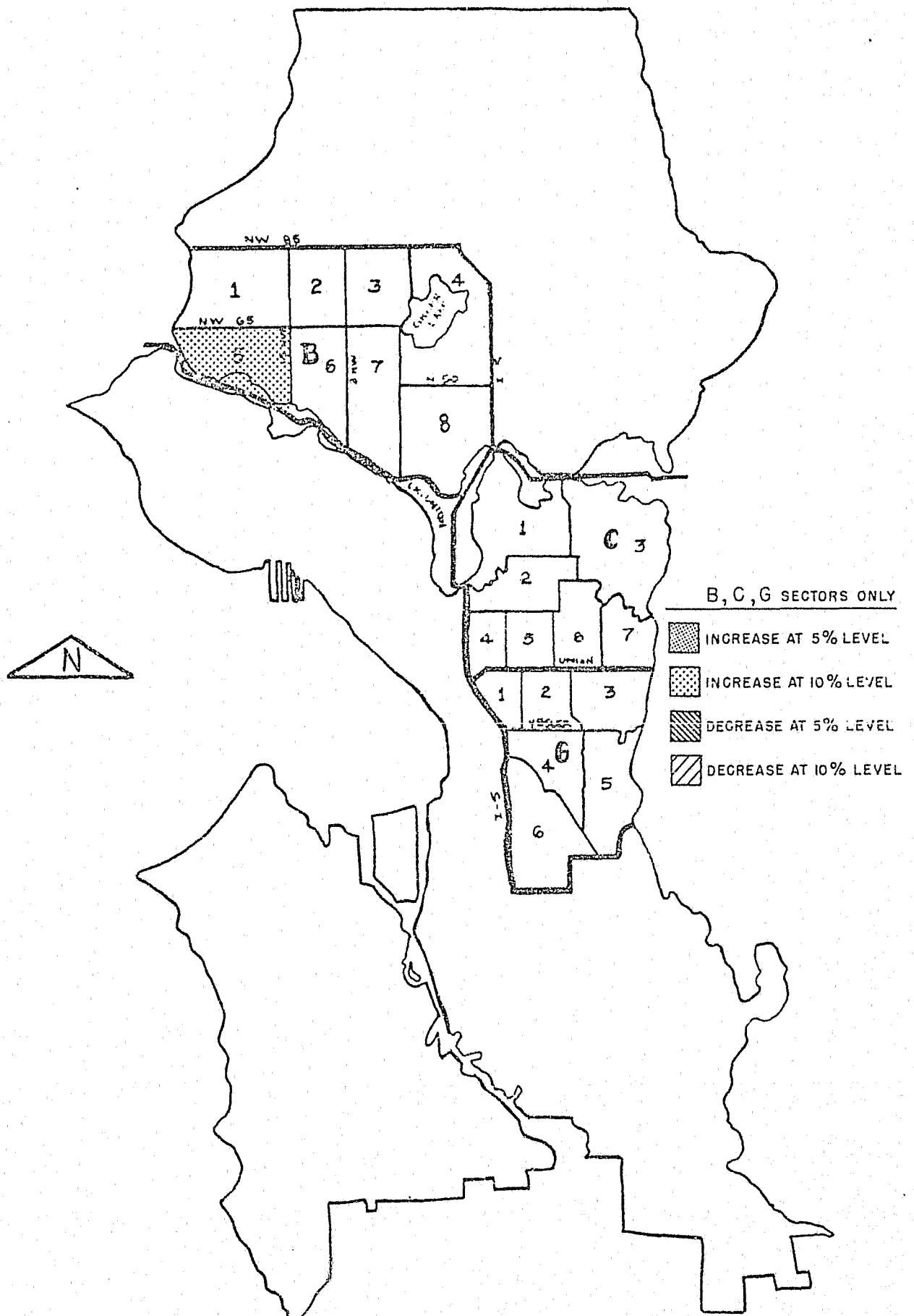
Map 7D2·1 –   Wilcoxon Test of Reported Total Burglary Ratio With Minor Force
of Entry – Test Sectors (refer to Tables 7D2·1·1, 7D2·1·2,
and 7D2·1·3)

B, C, G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
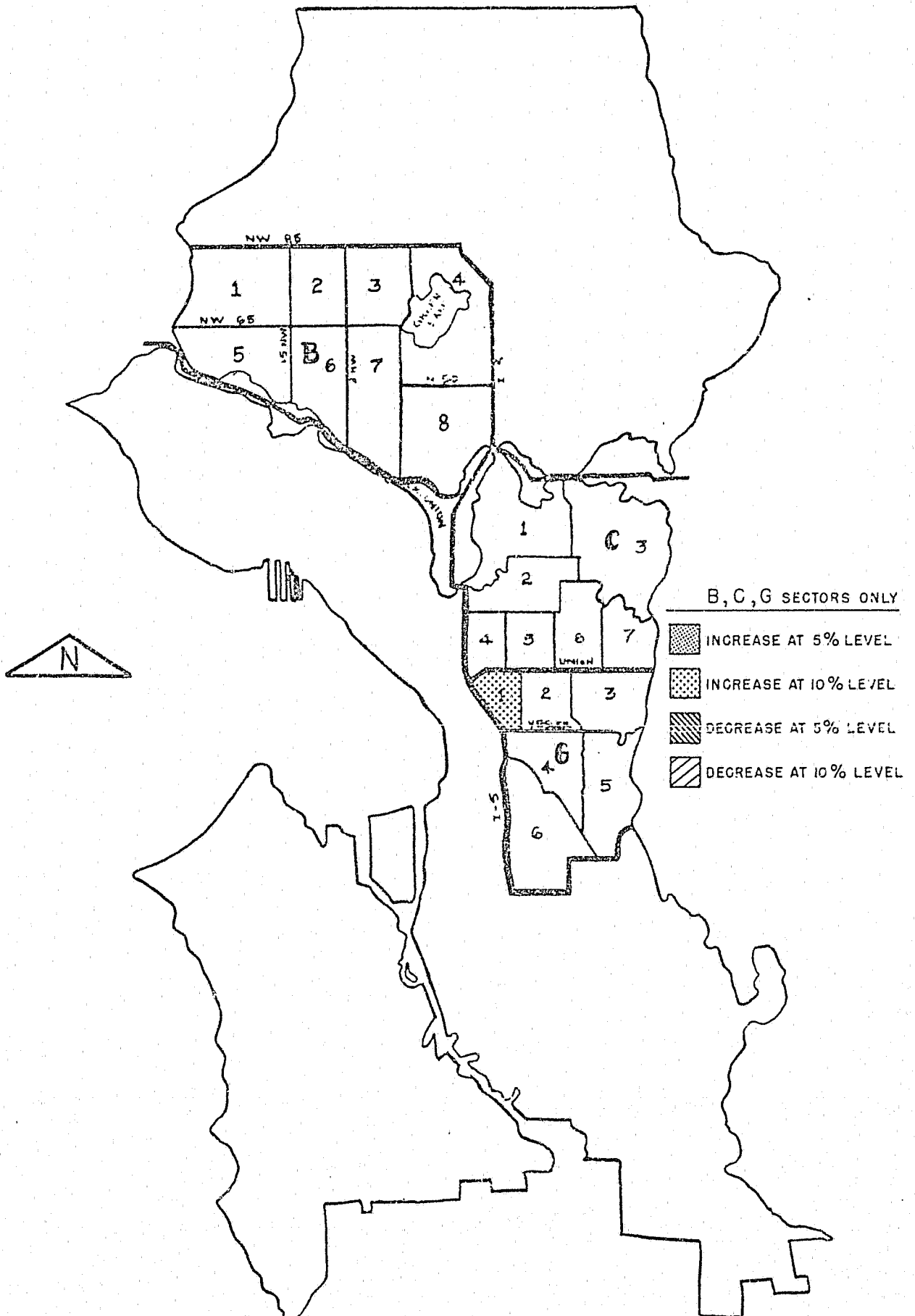
Map 7D2·3 – Wilcoxon Test of Reported Nonresidential Burglary Ratio
With Minor Force of Entry – Test Sectors
(refer to Tables 7D2·3·1, 7D2·3·2 and 7D2·3·3)
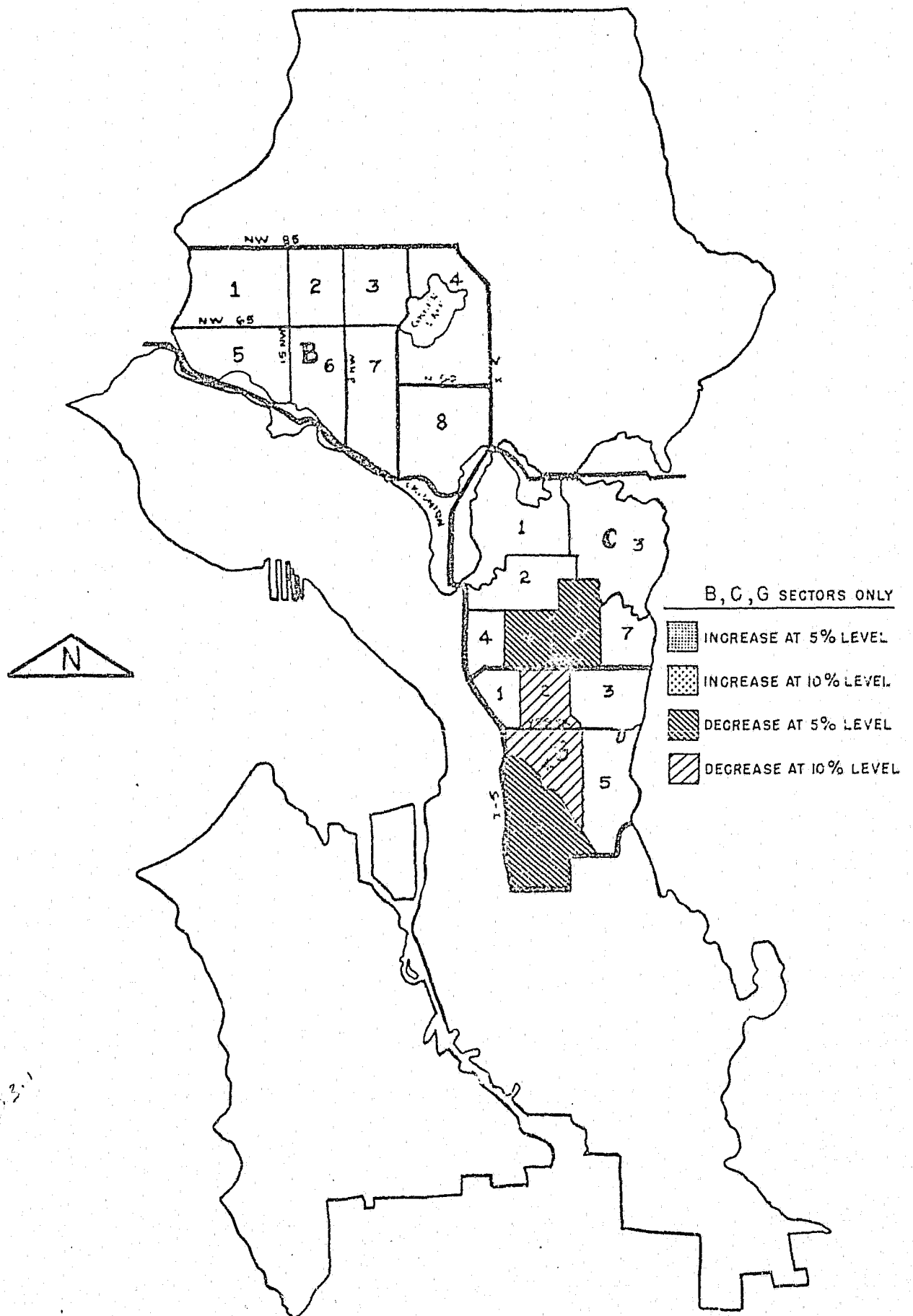
Map 7D3·1 – Wilcoxon Test of Reported Total Burglary Ratio With No Force of Entry – Test Sectors (refer to Tables 7D3·1·1, 7D3·1·2 and 7D3·1·3)

Map 7E1 – Wilcoxon Test of Average Stolen Value – Reported Total Burglaries –
Test Sectors (refer to Tables 7E1·1, 7E1·2 and 7E1·3)
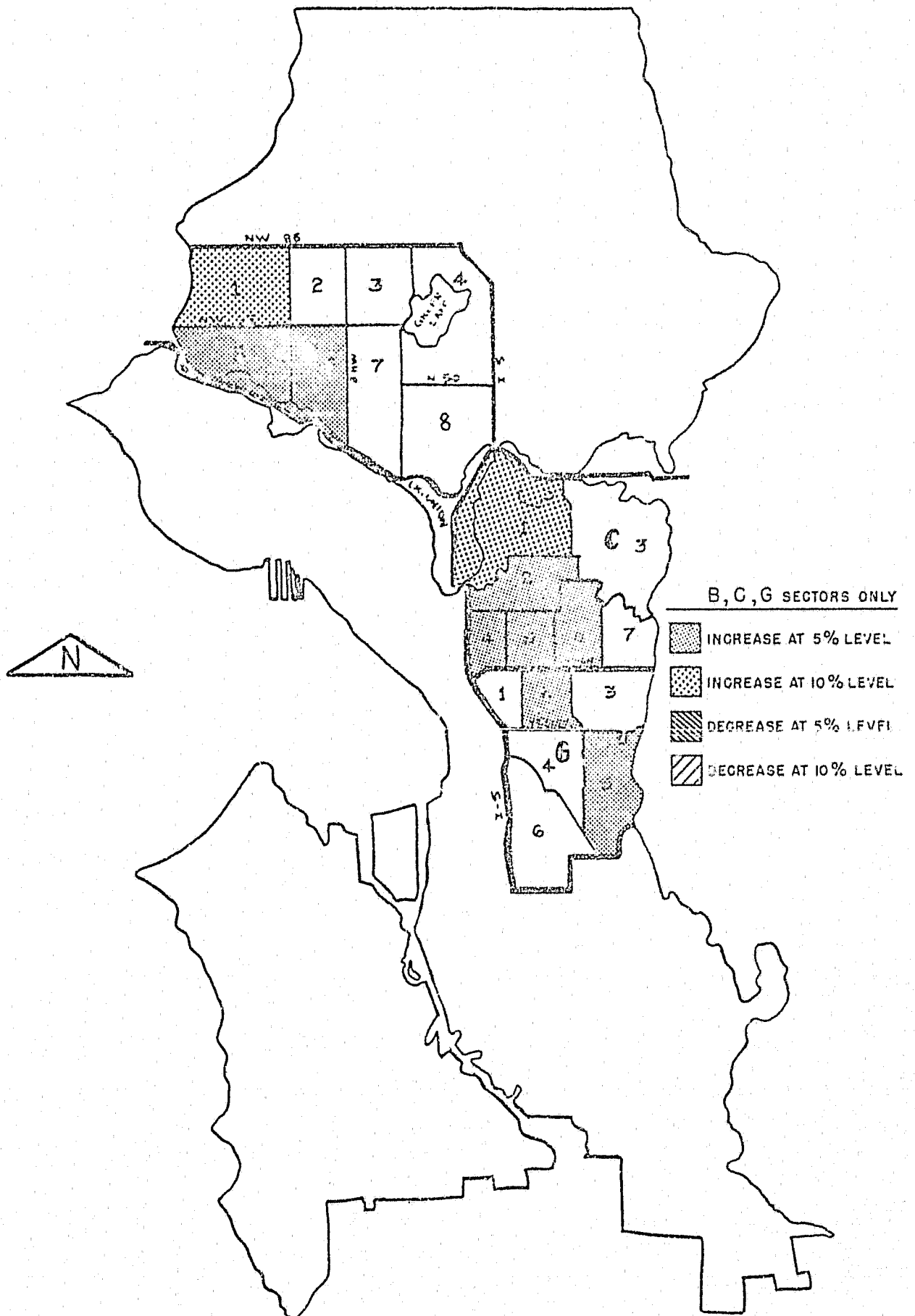
Map 7E2 –   Wilcoxon Test of Average Stolen Value – Reported Residential
            Burglaries – Test Sectors (refer to Tables 7E2·1, 7E2·2 and 7E2·3)
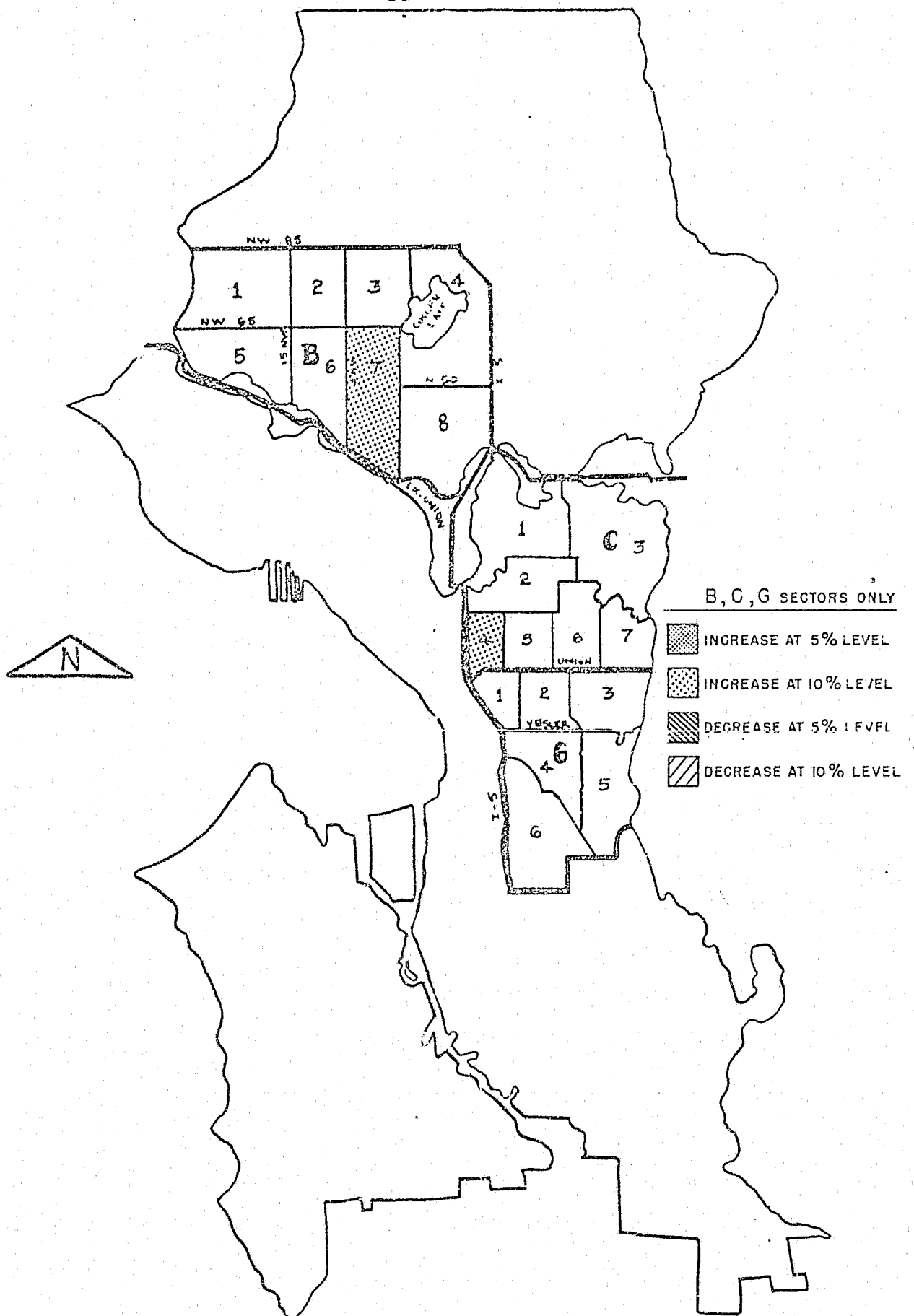
80

NW 85

NW 65

15 NW

B

1 2 3 4

5 6 8

LK UNION

N

1 C 3

2

5 6 7

UNION

1 2 3

YESLER

4 6

I-5

5

6

B,C,G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 7E3 –   Wilccxon Test of Average Stolen Value – Reported Nonresidential
Burglaries – Test Sectors (refer to Tables 7E3·1, 7E3·2 and 7E3·3)

B,C,G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
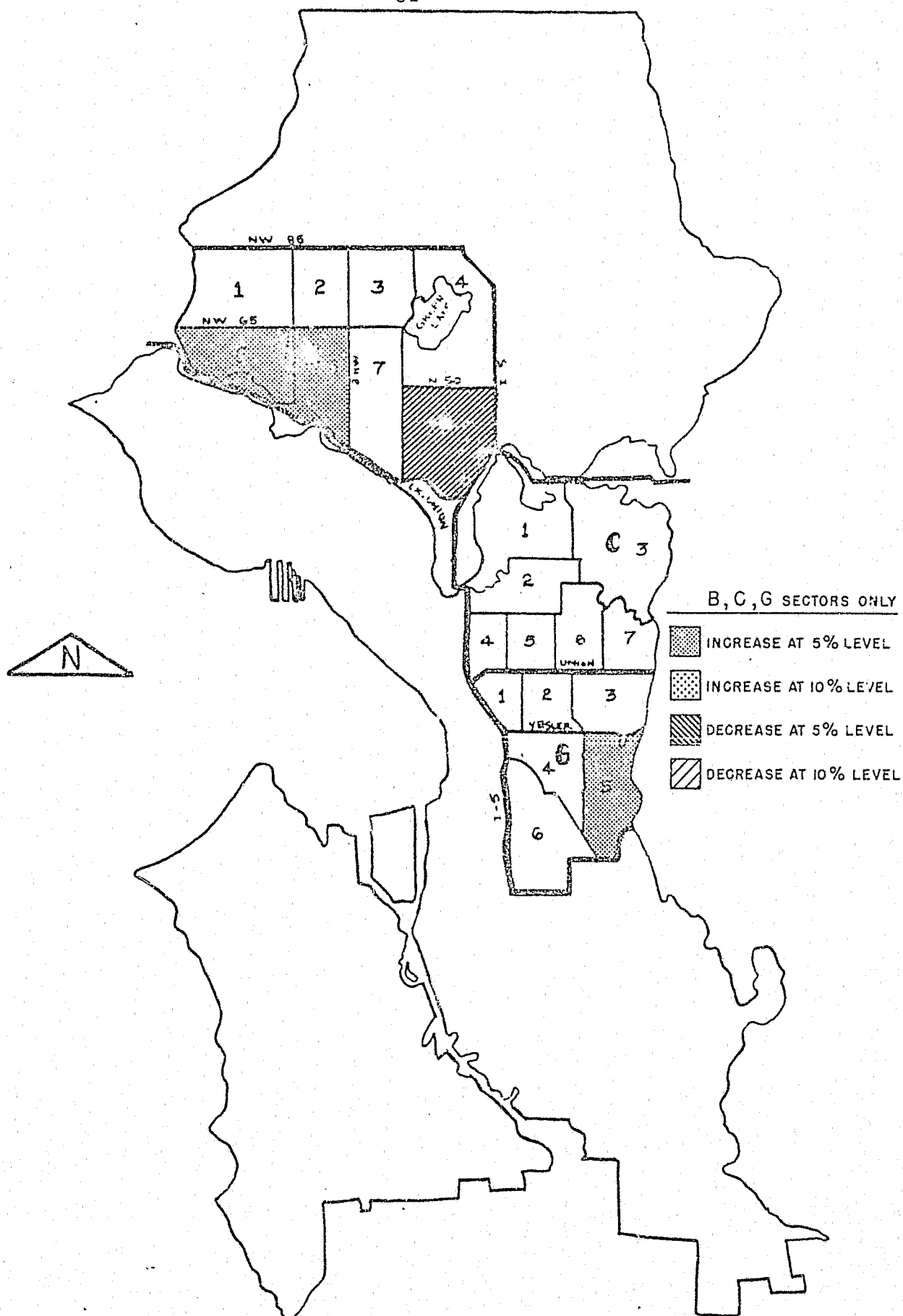
Map 7F1 — Wilcoxon Test of Average Recovered Value – Reported Total
Burglaries – Test Sectors (refer to Tables 7F1·1, 7F1·2 and 7F1·3)
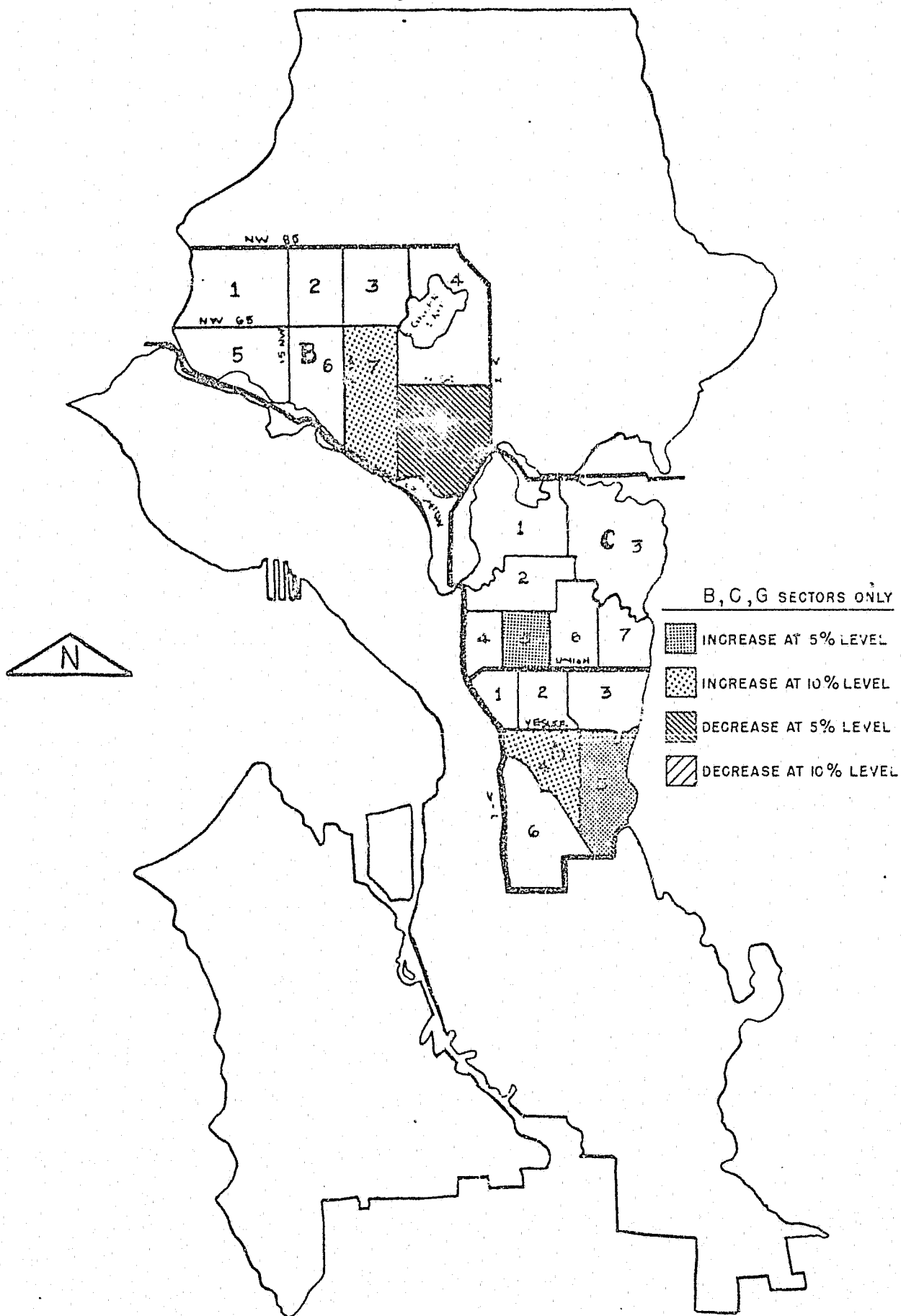
Map 7F2 –   Wilcoxon Test of Average Recovered Value – Reported Residential
             Burglaries – Test Sectors (refer to Tables 7F2·1, 7F2·2 and 7F2·3)
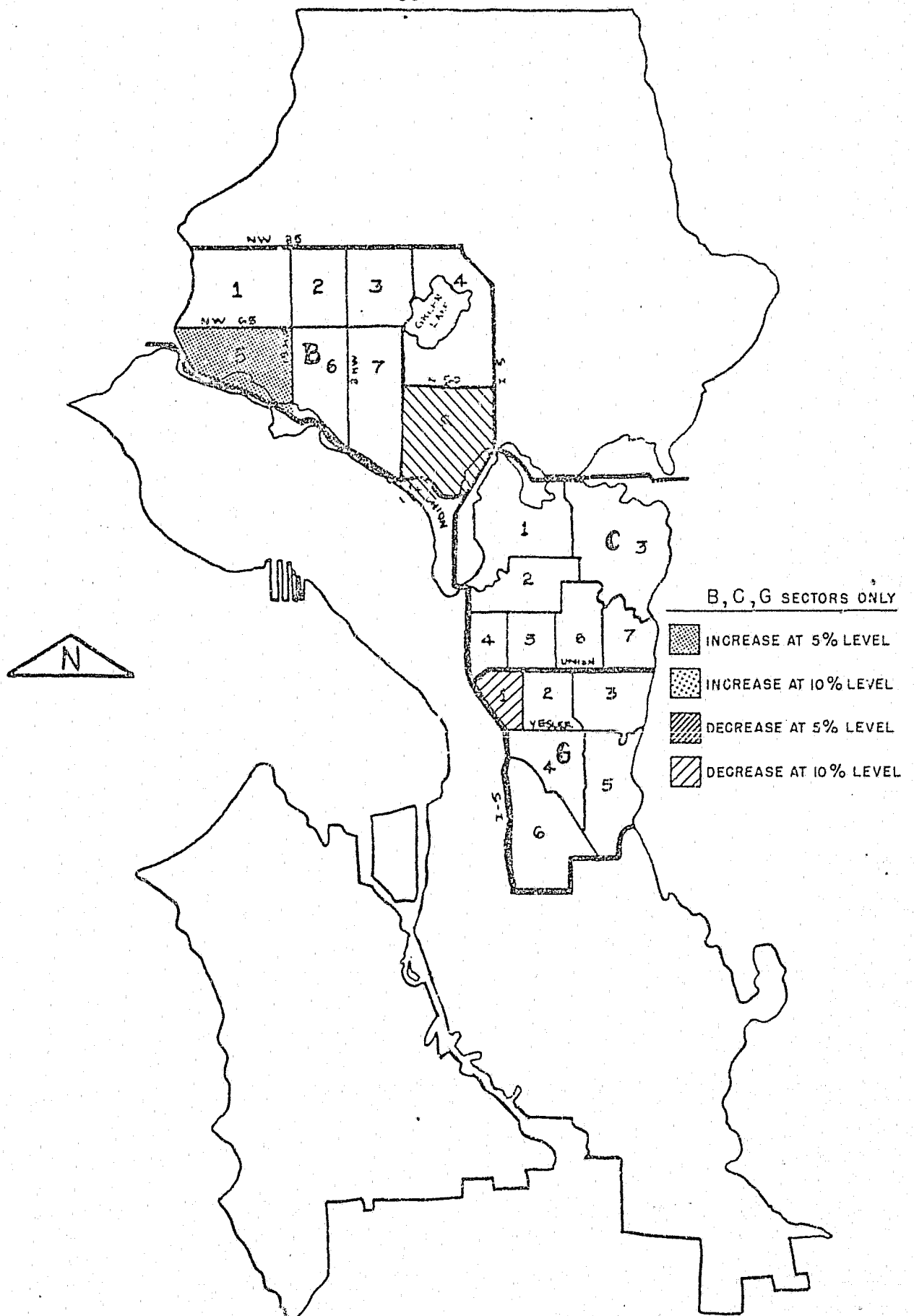
Map 7F3 — Wilcoxon Test of Average Recovered Value - Reported Nonresidential
Burglaries - Test Sectors (refer to Tables 7F3·1, 7F3·2 and 7F3·3)
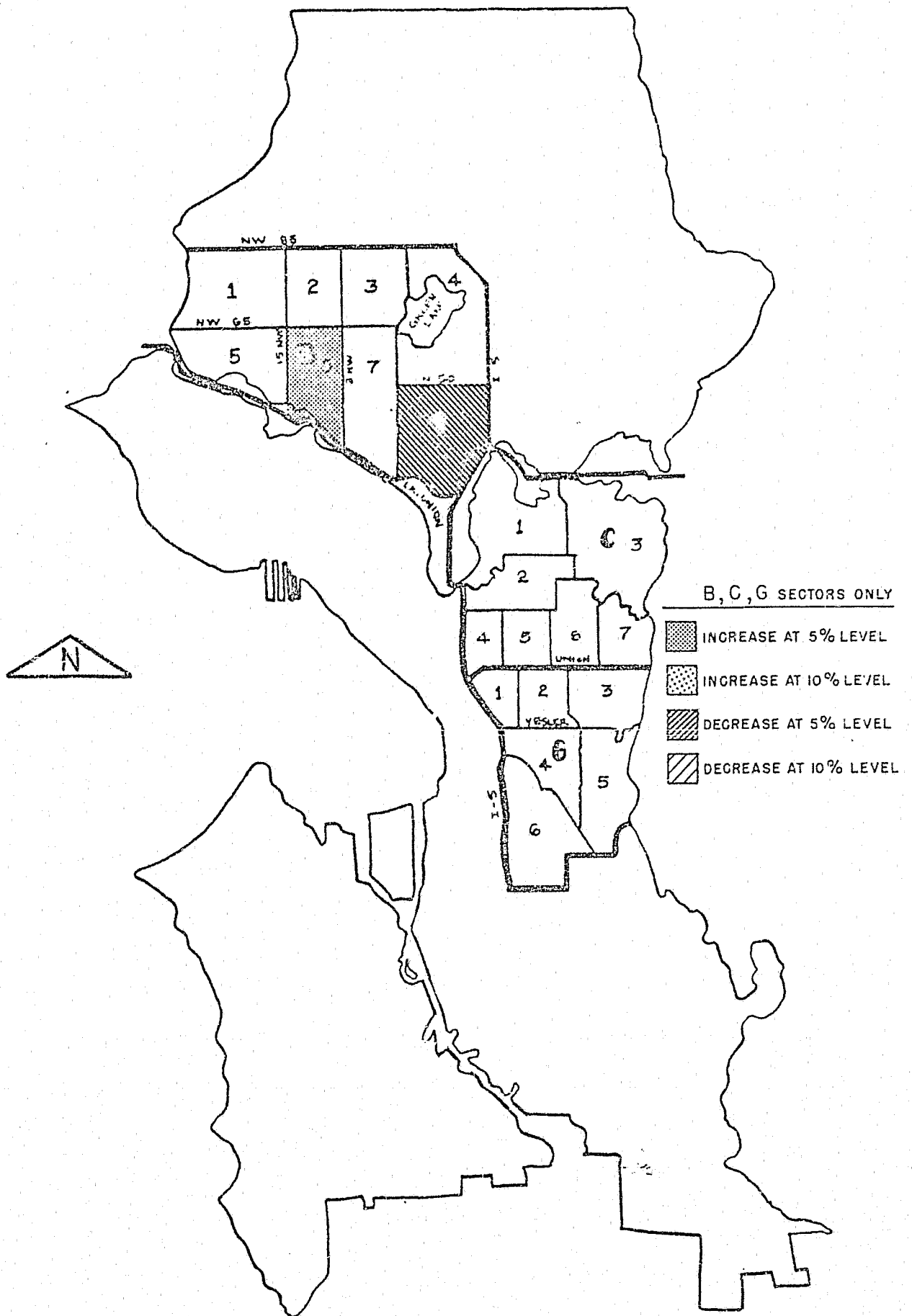
Map 7G1 - Wilcoxon Test of (Recovered/Stolen) Value - Reported Total Burglaries -
Test Sectors - (refer to Tables 7G1·1, 7G1·2 and 7G1·3)
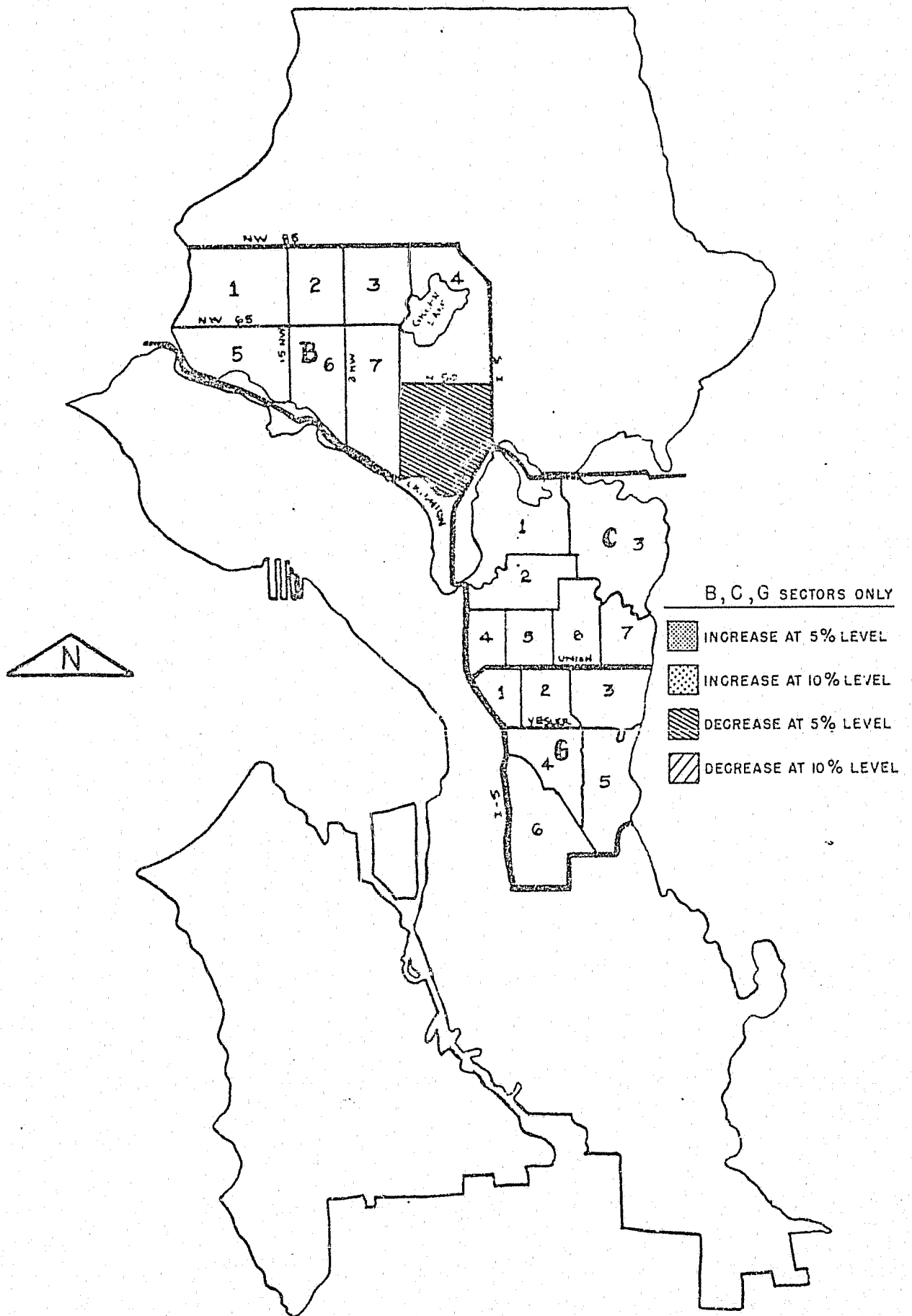
Map 7G2 - Wilcoxon Test of (Recovered/Stolen) Value - Reported Residential Burglaries - Test Sectors (refer to Tables 7G2·1, 7G2·2 and 7G2·3)

B,C,G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
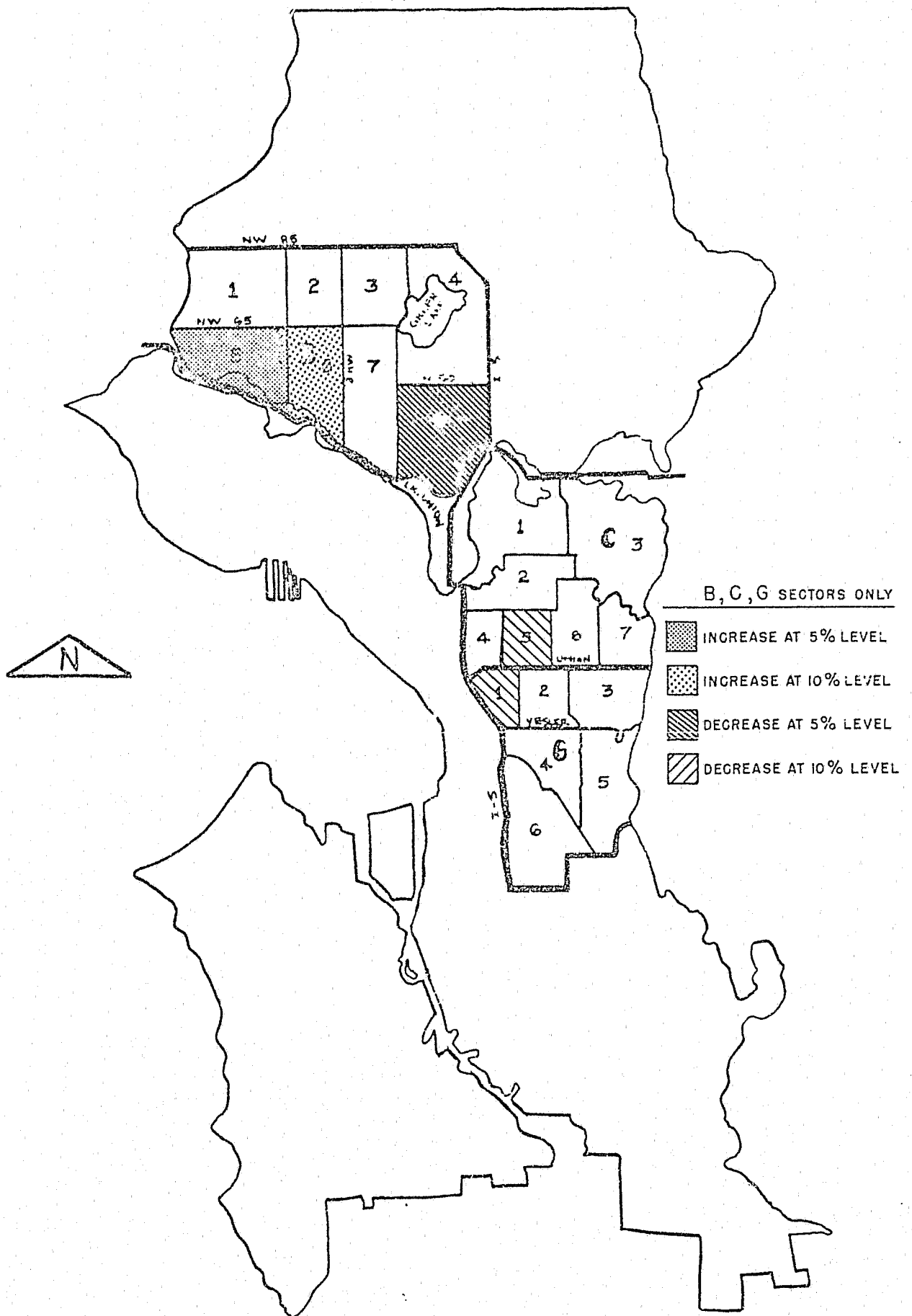
Map 7G3 – Wilcoxon Test of (Recovered/Stolen) Value – Reported Nonresidential
Burglaries – Test Sectors (refer to Tables 7G3·1, 7G3·2 and 7G3·3)
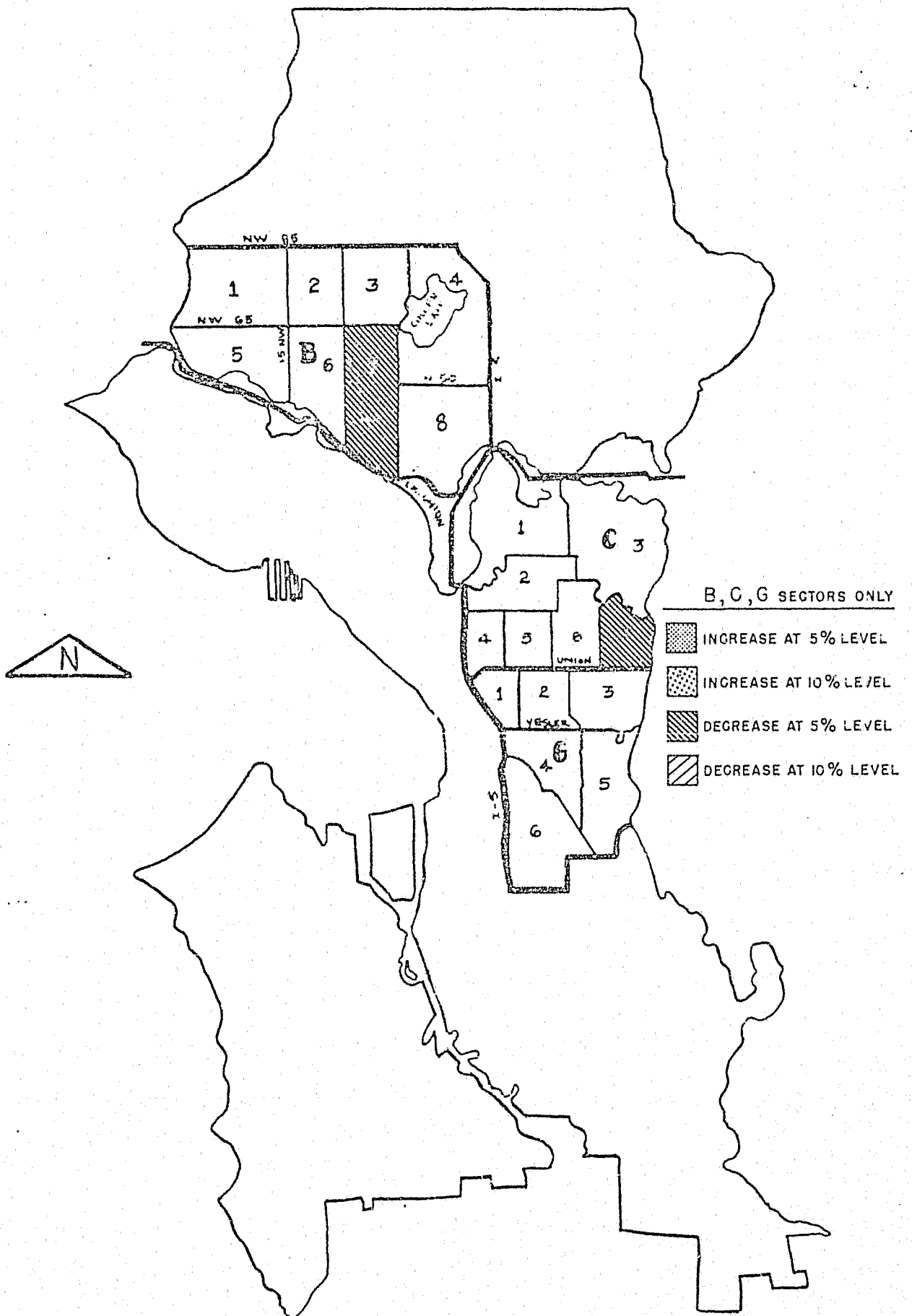
Map 7H1·1 - Wilcoxon Test of Clearance (1) - Reported Total Burglaries - Test Sectors (refer to Tables 7H1·1·1, 7H1·1·2 and 7H1·1·3)
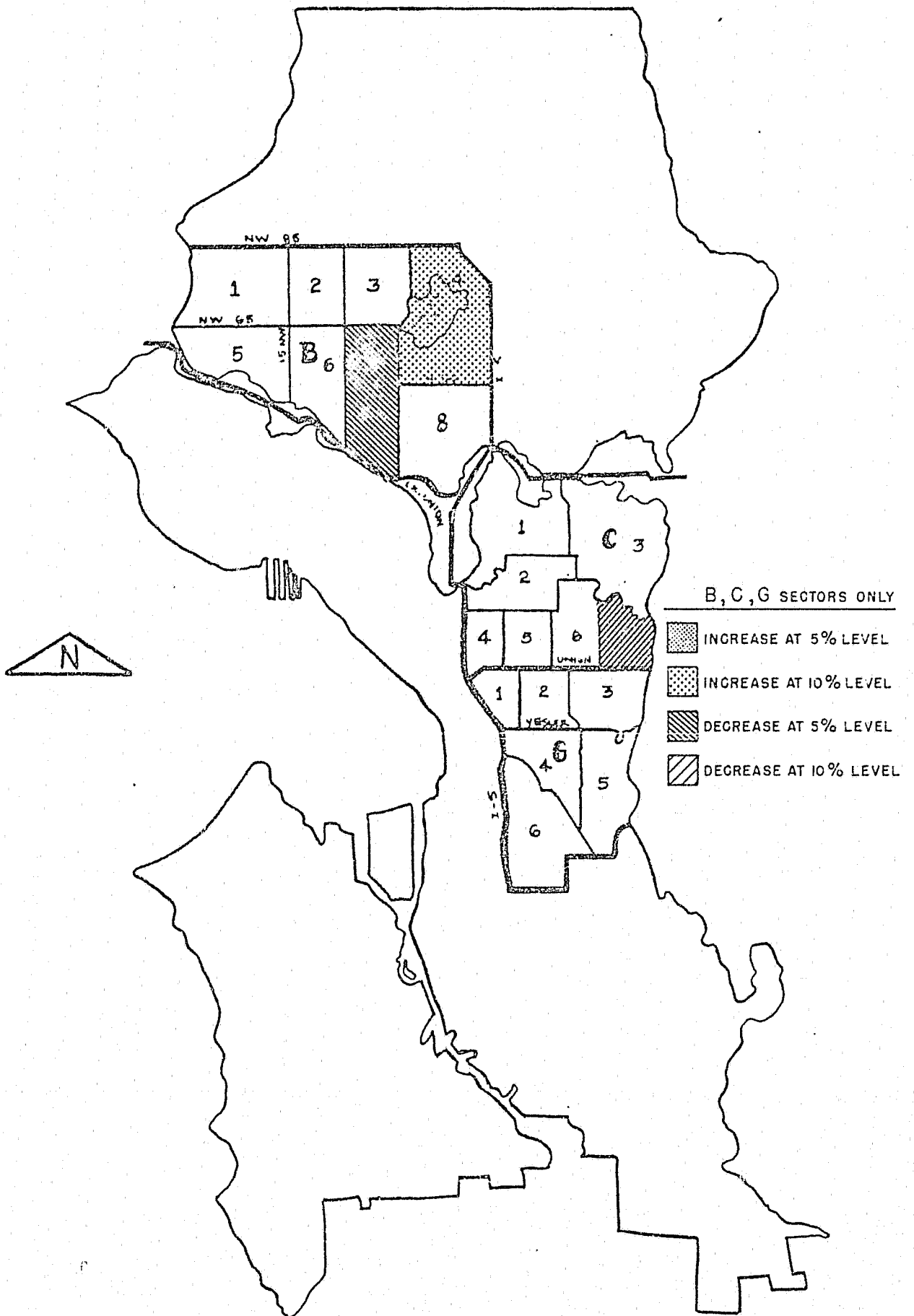
Map 7H1·2 – Wilcoxon Test of Clearance (1) – Reported Residential Burglaries – Test Sectors (refer to Tables 7H1·2·1, 7H1·2·2 and 7H1·2·3)
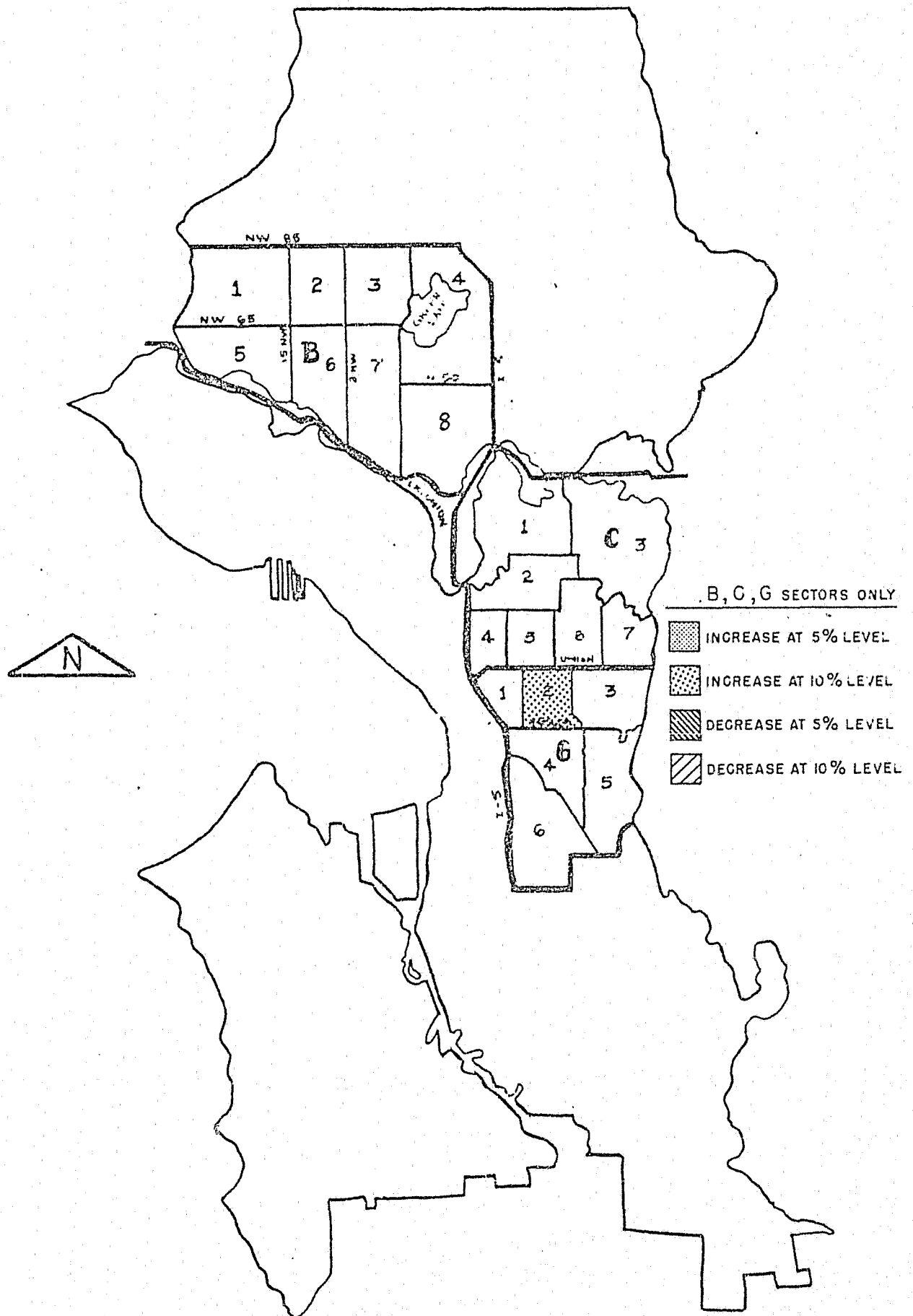
Map 7H1·3 –   Wilcoxon Test of Clearance (1) – Reported Nonresidential Burglaries –
Test Sectors (refer to Tables 7H1·3·1, 7H1·3·2 and 7H1·3·3)
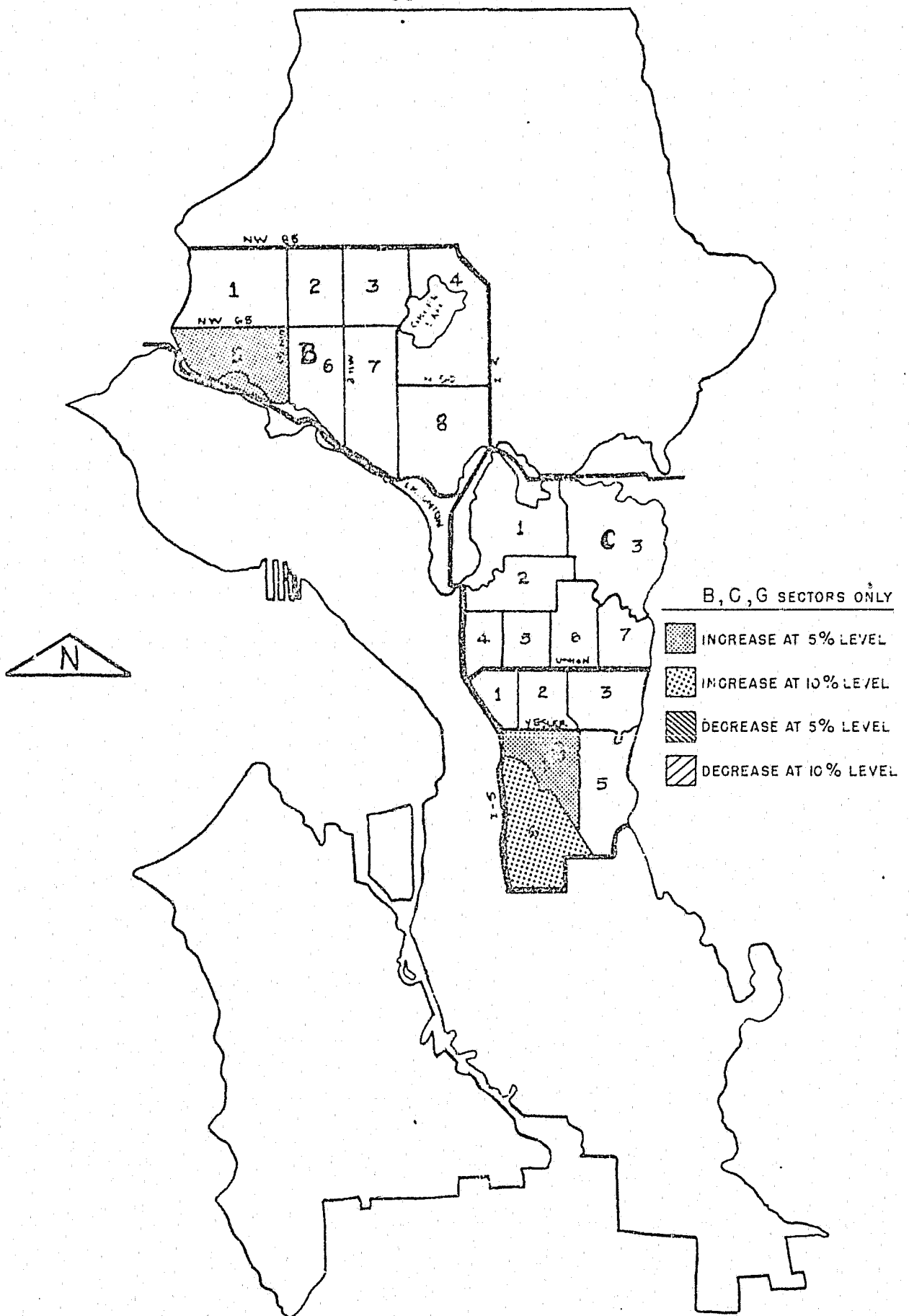
Map 7H2·1 — Wilcoxon Test of Clearance (2) – Reported Total Burglaries –
Test Sectors (refer to Tables 7H2·1·1, 7H2·1·2 and 7H2·1·3)
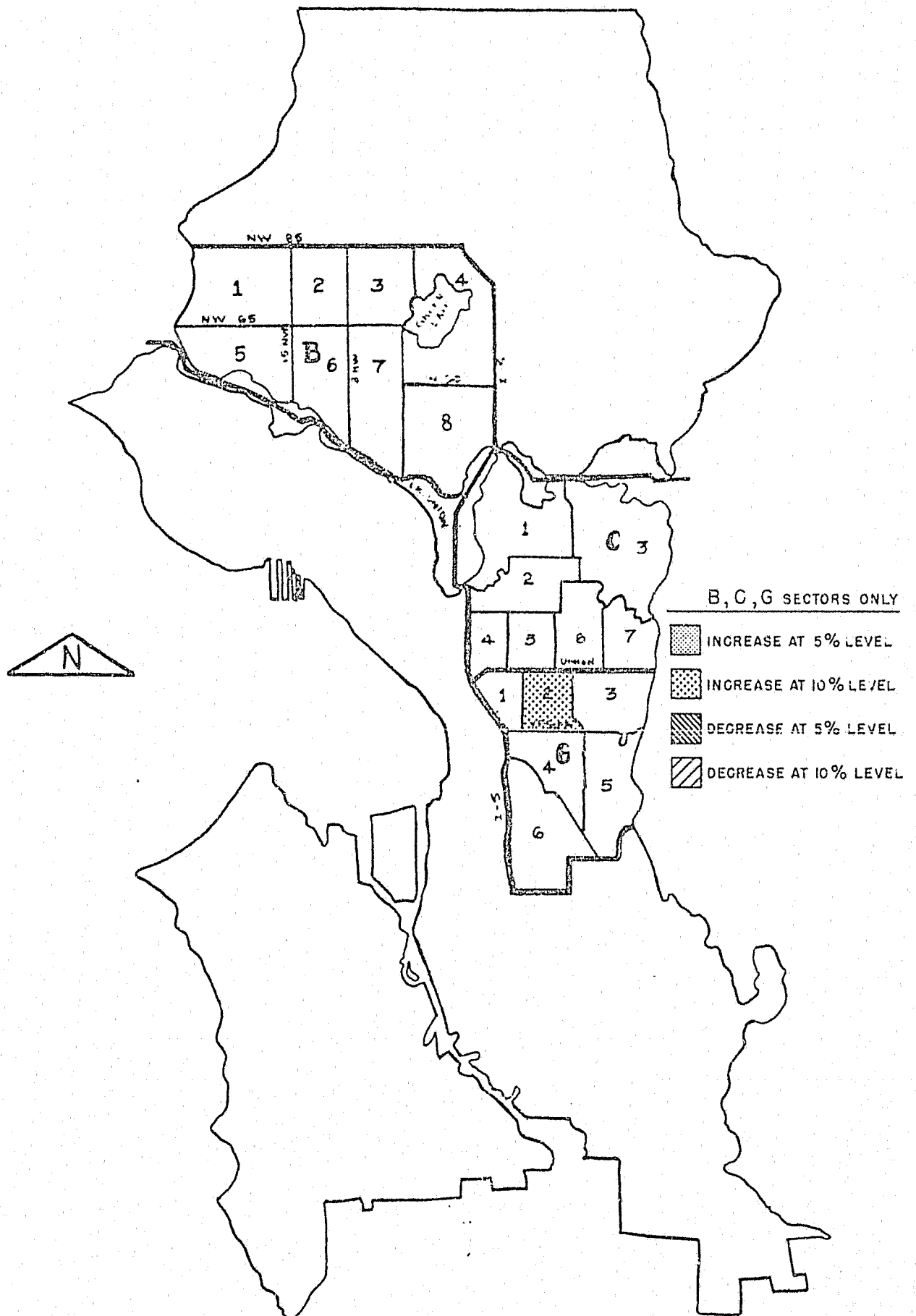
Map 7H2·2 — Wilcoxon Test of Clearance (2) – Reported Residential Burglaries – Test Sectors (refer to Tables 7H2·2·1, 7H2·2·2 and 7H2·2·3)
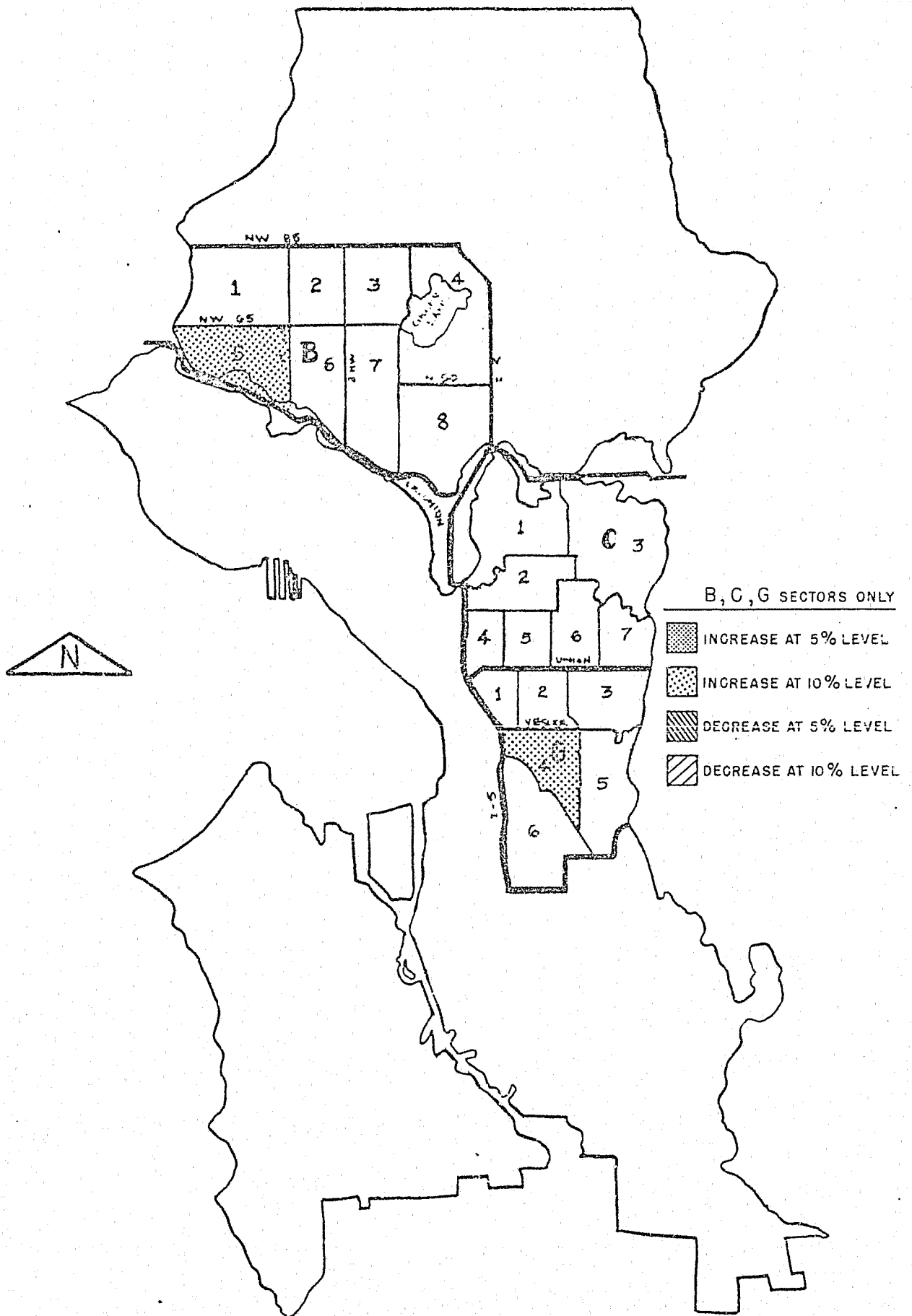
Map 7H2·3 – Wilcoxon Test of Clearance (2) – Reported Nonresidential Burglaries –
Test Sectors (refer to Tables 7H2·3·1, 7H2·3·2 and 7H2·3·3)
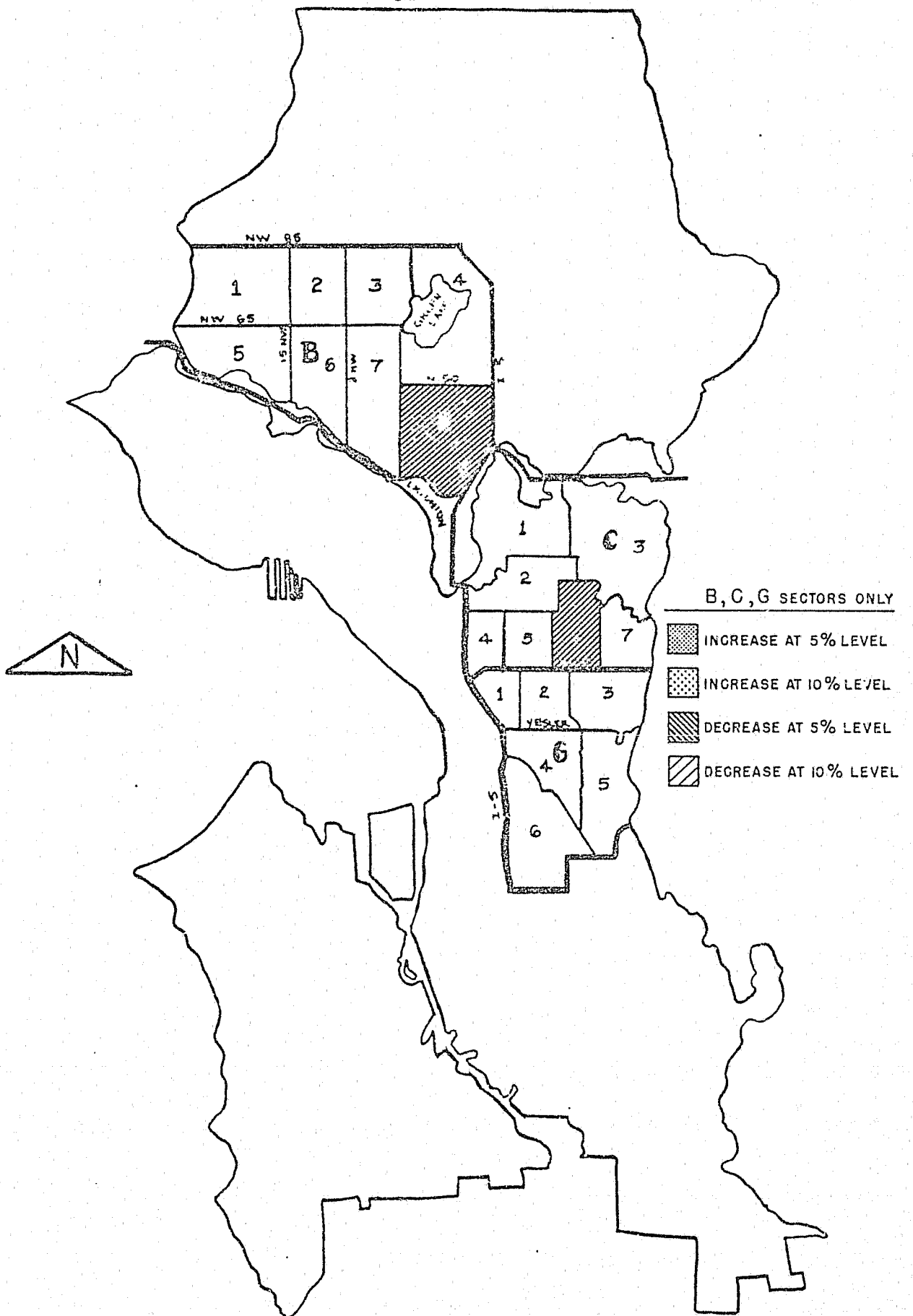
Map 7H3·1 –   Wilcoxon Test of Clearance (3) – Reported Total Burglaries –
Test Sectors (refer to Tables 7H3·1·1, 7H3·1·2 and 7H3·1·3)
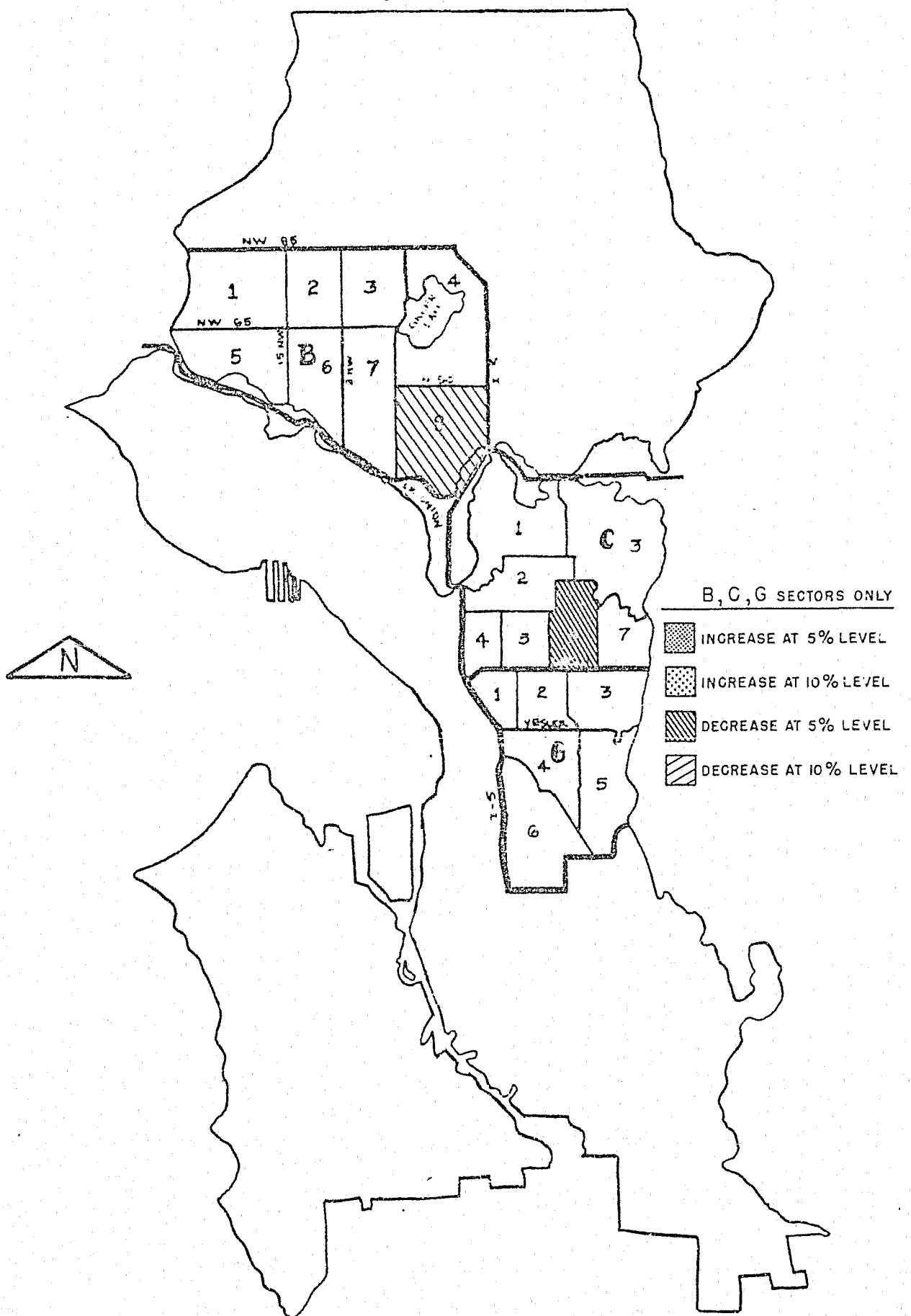
Map 7H3·2 –   Wilcoxon Test of Clearance (3) – Reported Residential Burglaries –
Test Sectors (refer to Tables 7H3·2·1, 7H3·2·2 and 7H3·2·3)

Legend: B, C, G SECTORS ONLY

INCREASE AT 5% LEVEL
INCREASE AT 10% LEVEL
DECREASE AT 5% LEVEL
DECREASE AT 10% LEVEL
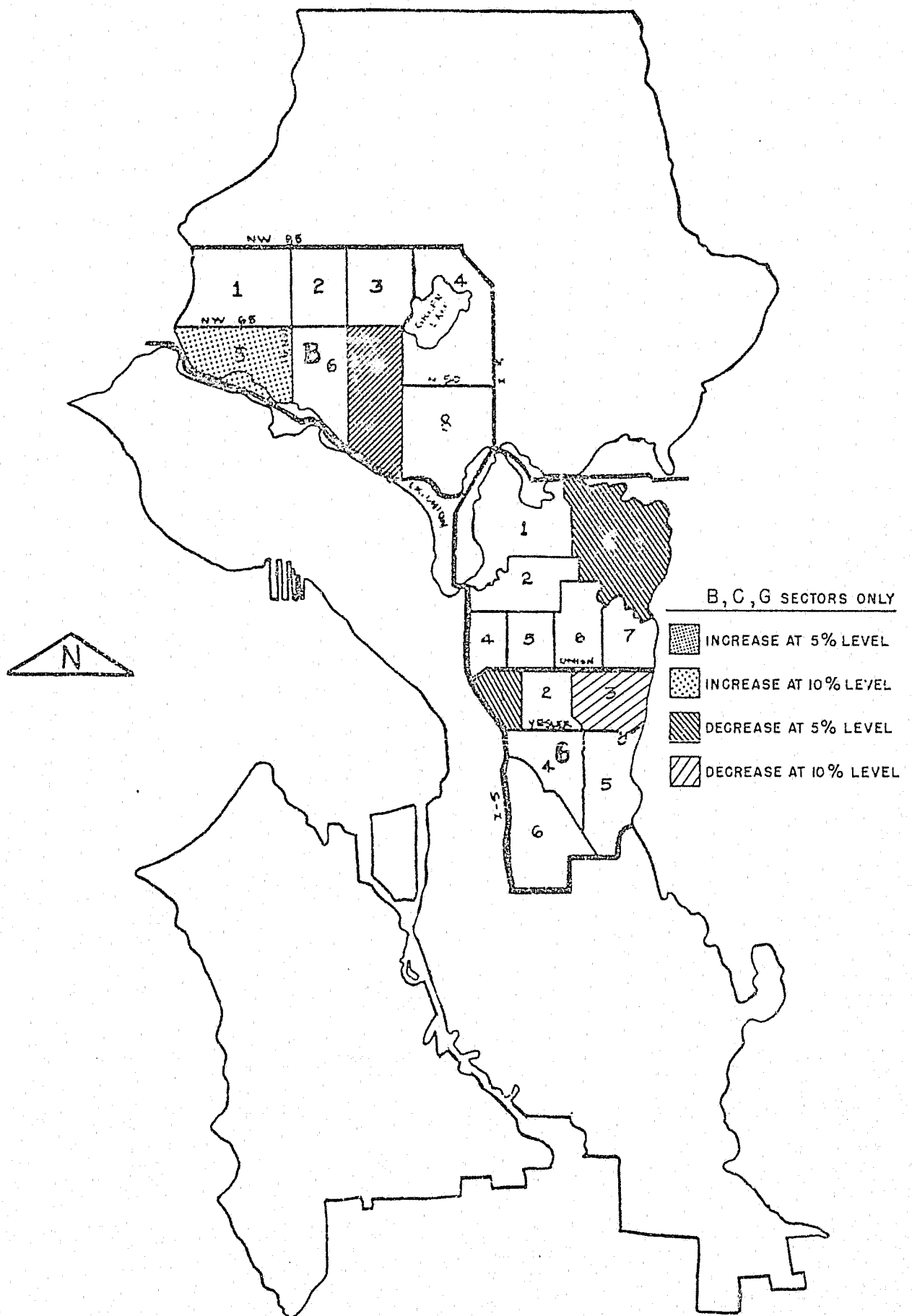
Map 7H4·1 –   Wilcoxon Test of Clearance (4) – Reported Total Burglaries –
Test Sectors (refer to Tables 7H4·1·1, 7H4·1·2 and 7H4·1·3)
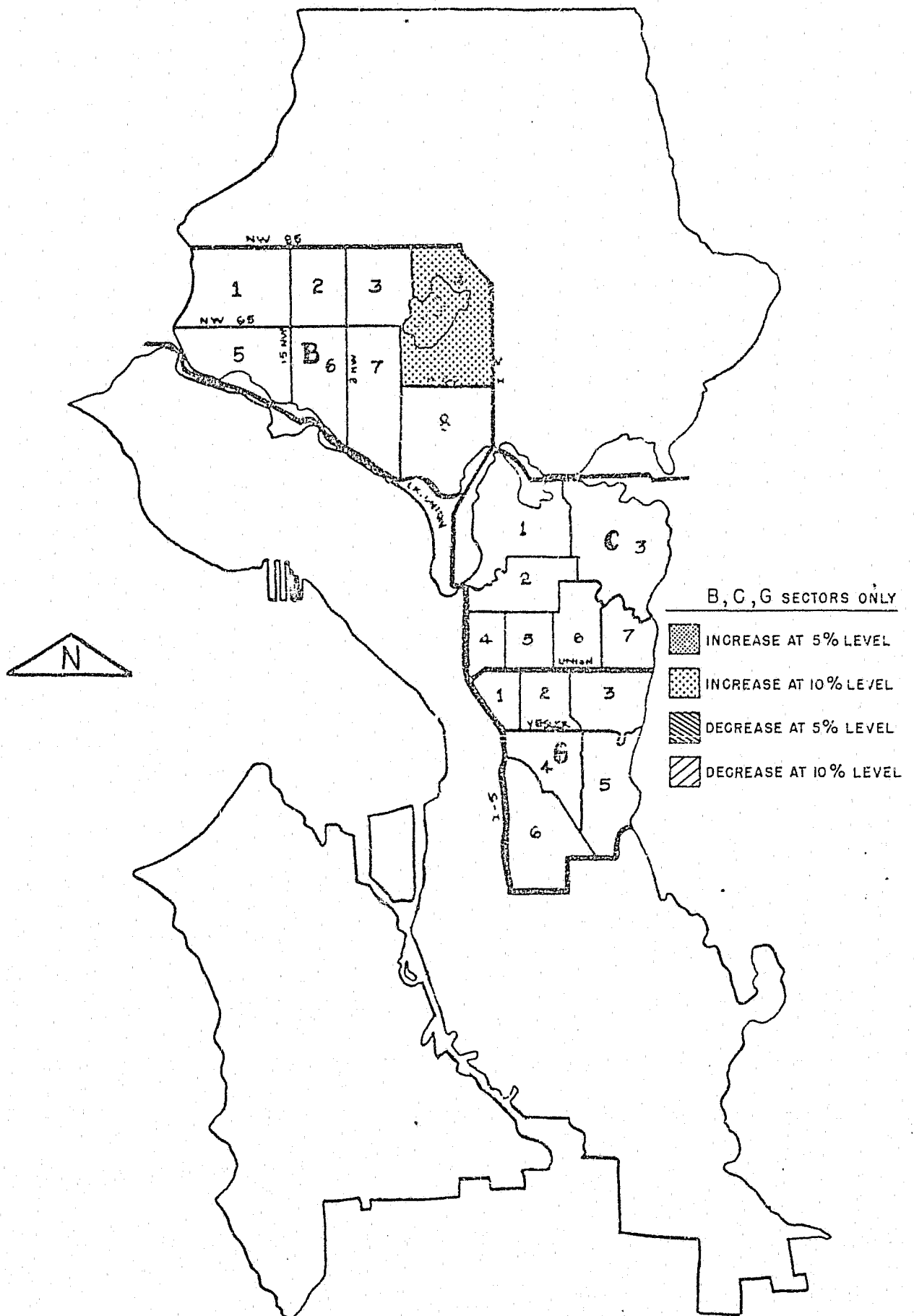
Map 7I1·2 – Wilcoxon Test of Clearance (1) & (2) – Reported Residential Burglaries – Test Sectors (refer to Tables 7I1·2·1, 7I1·2·2 and 7I1·2·3)

Map 7I1·3 –   Wilcoxon Test of Clearance (1) & (2) – Reported Nonresidential
Burglaries – Test Sectors (refer to Tables 7I1·3·1, 7I1·3·2
and 7I1·3·3)

Map 712·1 – Wilcoxon Test of Clearance (3) & (4) – Reported Total Burglaries –
Test Sectors (refer to Tables 712·1·1, 712·1·2 and 712·1·3)

Map 7I2·2 – Wilcoxon Test of Clearance (3) & (4) – Reported Residential
Burglaries – Test Sectors (refer to Tables 7I2·2·1, 7I2·2·2
and 7I2·2·3)
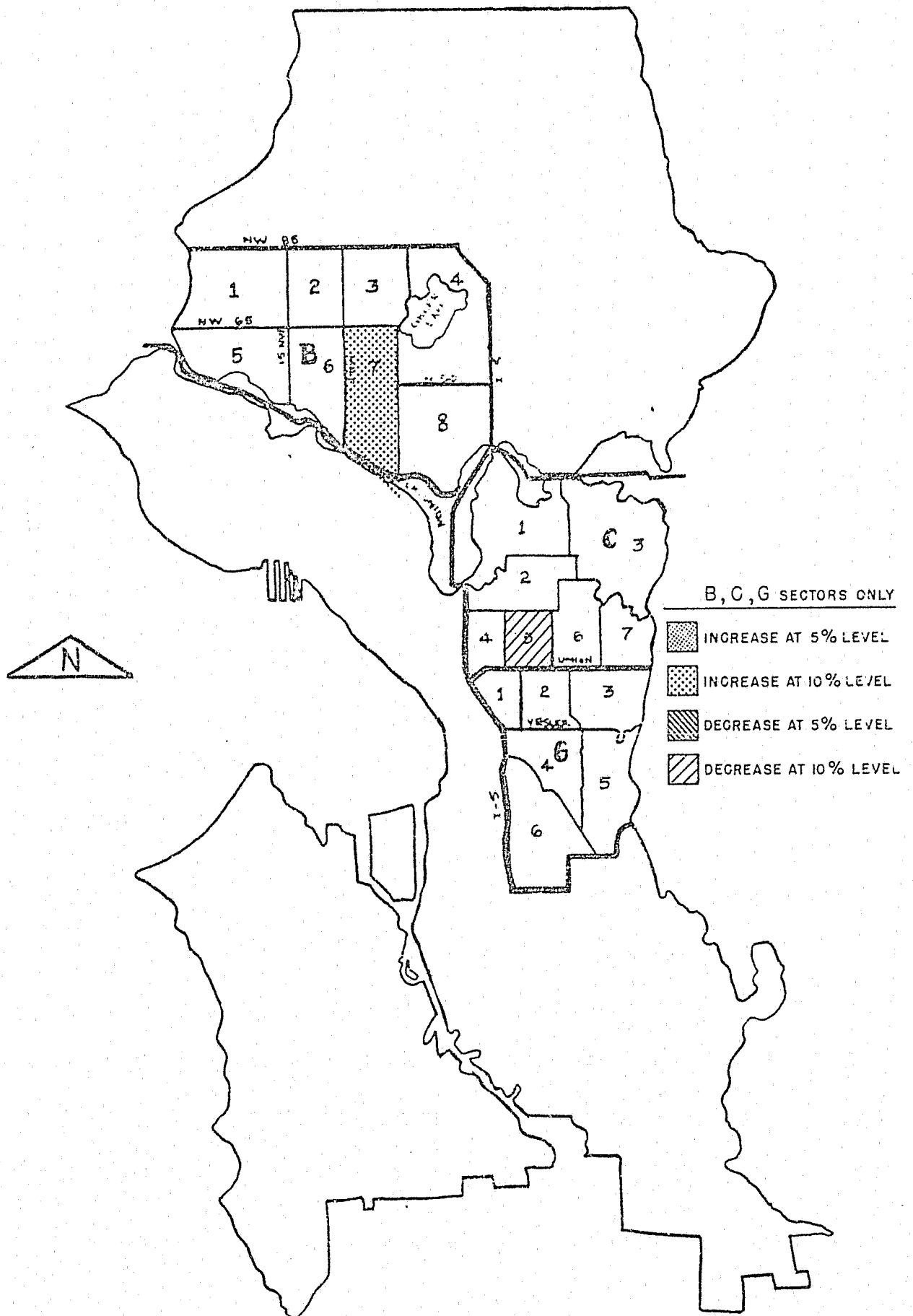
Map 7I2·3 – Wilcoxon Test of Clearance (3) & (4) – Reported Nonresidential
Burglaries – Test Sectors (refer to Tables 7I2·3·1, 7I2·3·2
and 7I2·3·3)

Map 7I3·1 –   Wilcoxon Test of Clearance (1) & (3) – Reported Total Burglaries –
Test Sectors (refer to Tables 7I3·1·1, 7I3·1·2 and 7I3·1·3)
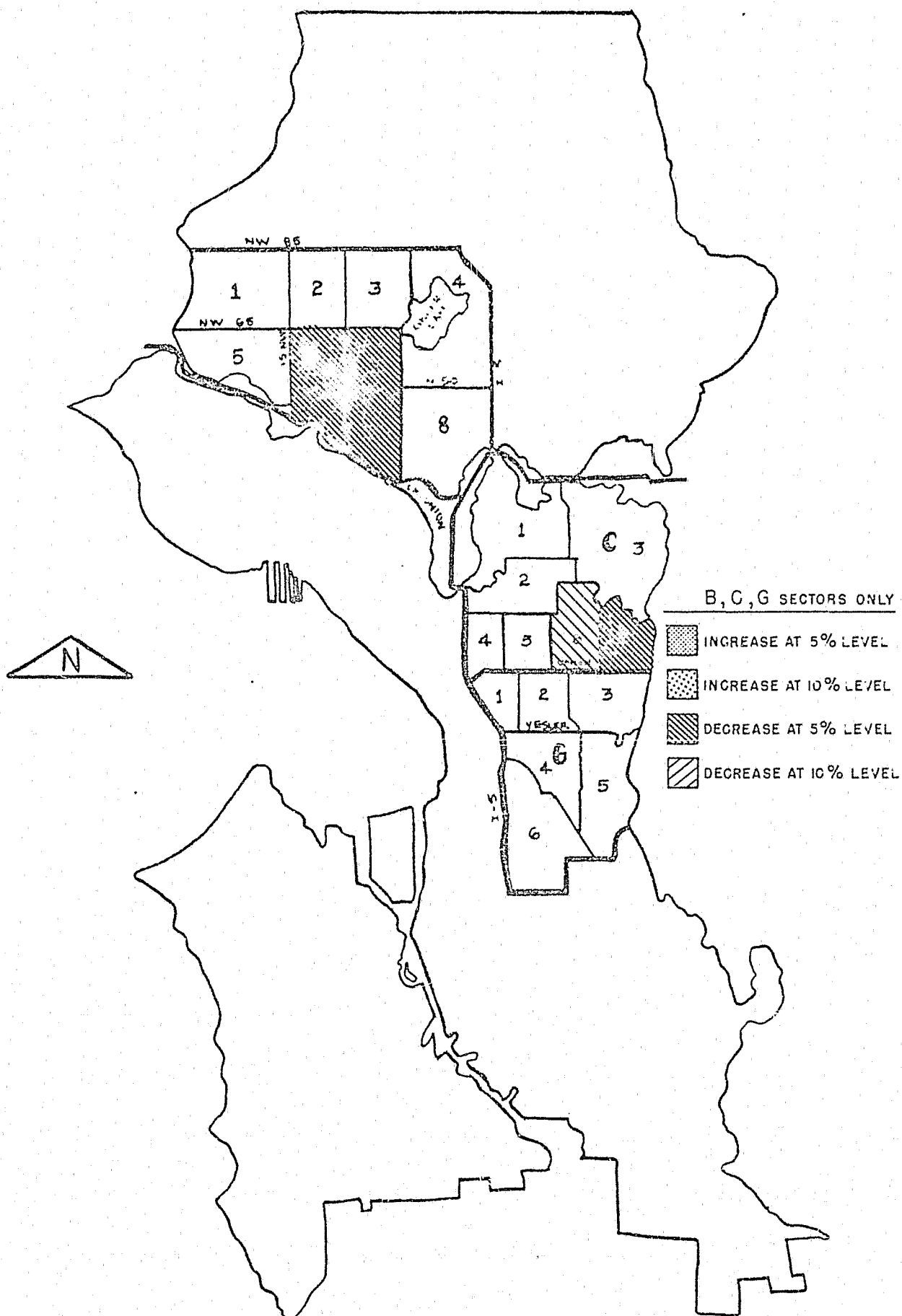
Map 7I3·2 – Wilcoxon Test of Clearance (1) & (3) – Reported Residential Burglaries – Test Sectors (refer to Tables 7I3·2·1, 7I3·2·2 and 7I3·2·3)
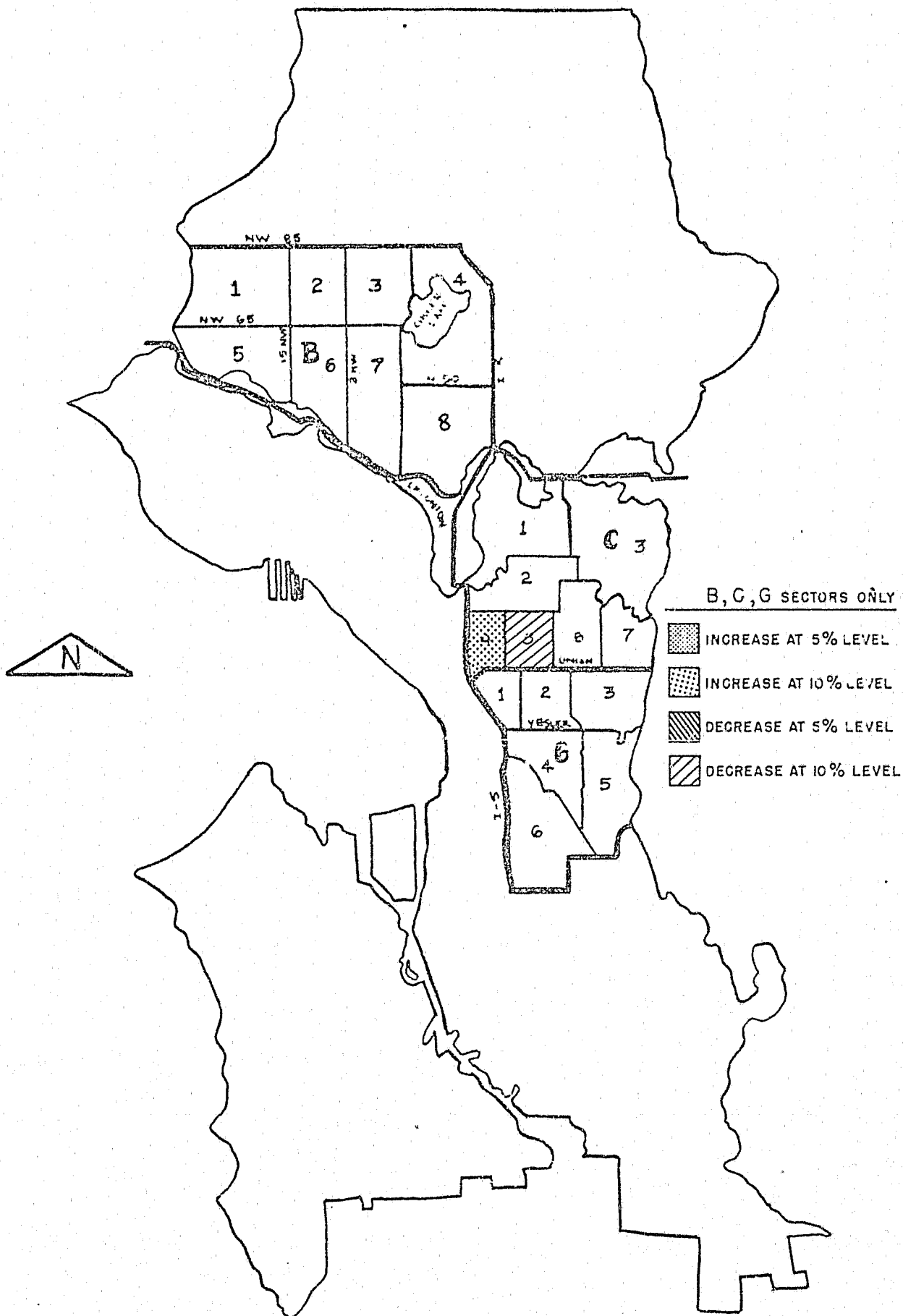
Map 7I3·3 — Wilcoxon Test of Clearance (1) & (3) — Reported Nonresidential Burglaries — Test Sectors (refer to Tables 7I3·3·1, 7I3·3·2 and 7I3·3·3)
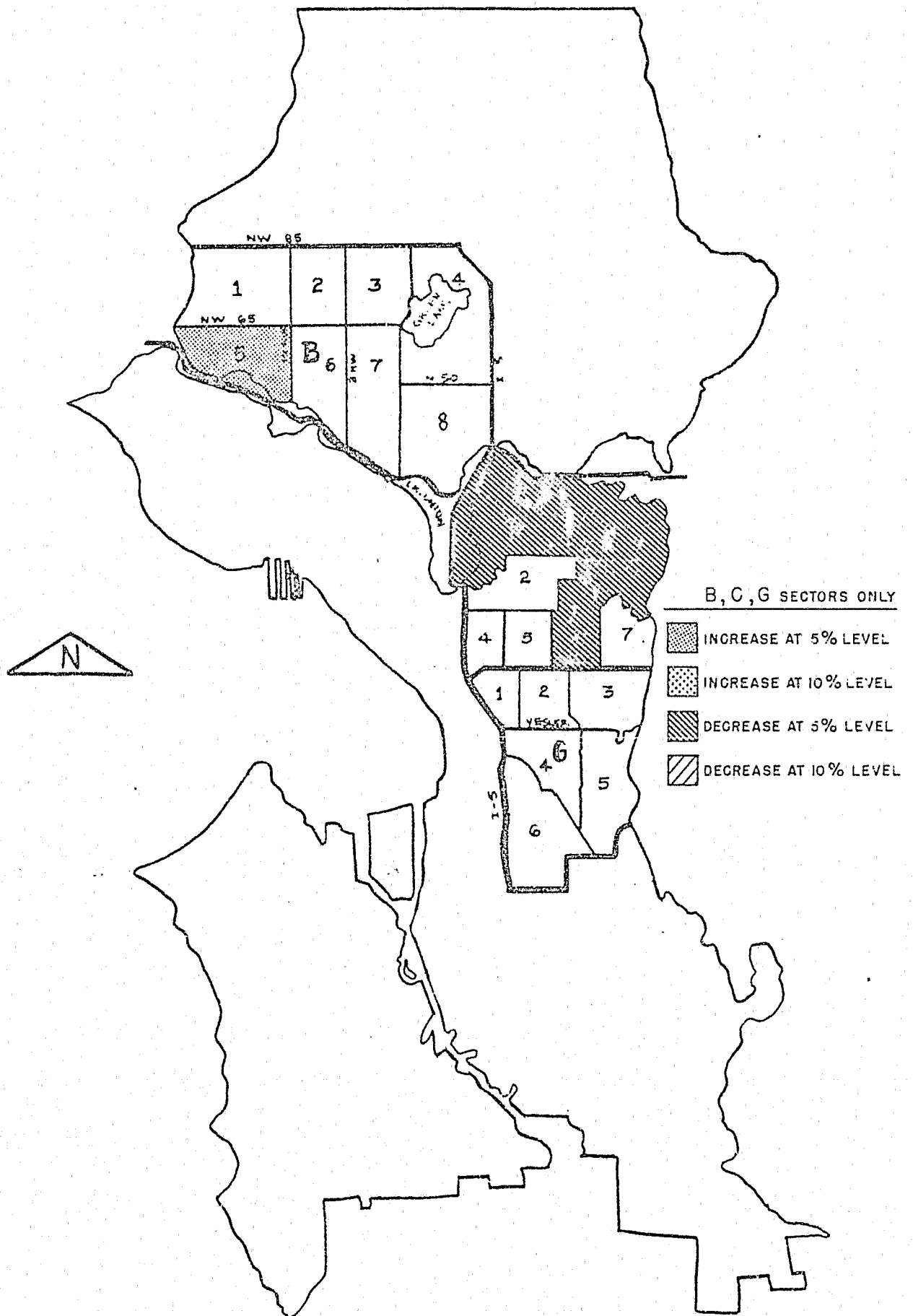
Map 7I4·1 – Wilcoxon Test of Clearance (2) & (4) – Reported Total Burglaries –
Test Sectors (refer to Tables 7I4·1·1, 7I4·1·2 and 7I4·1·3)
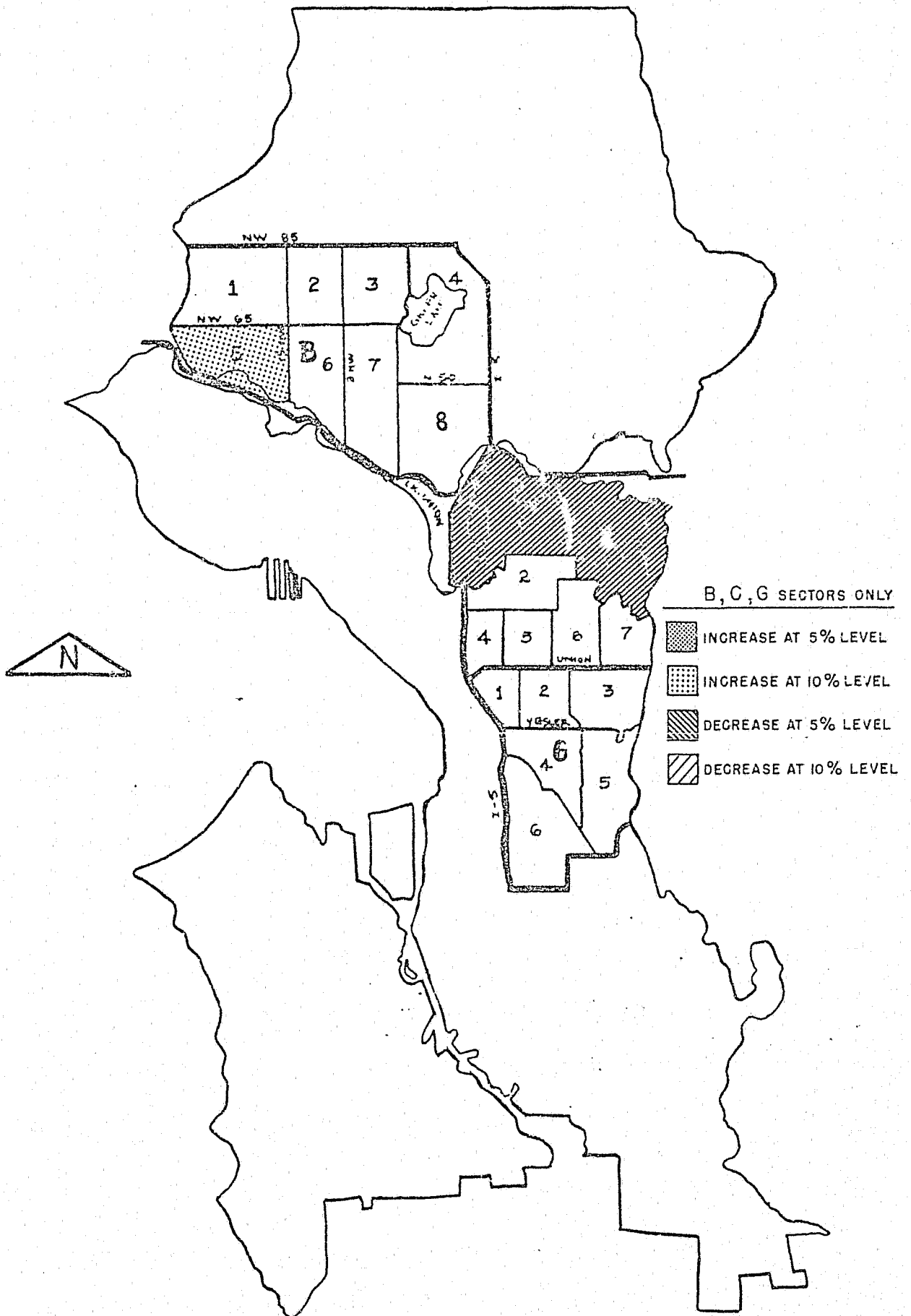
Map 7I4·2 – Wilcoxon Test of Clearance (2) & (4) – Reported Residential
Burglaries – Test Sectors (refer to Tables 7I4·2·1, 7I4·2·2
and 7I4·2·3)

B, C, G SECTORS ONLY

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
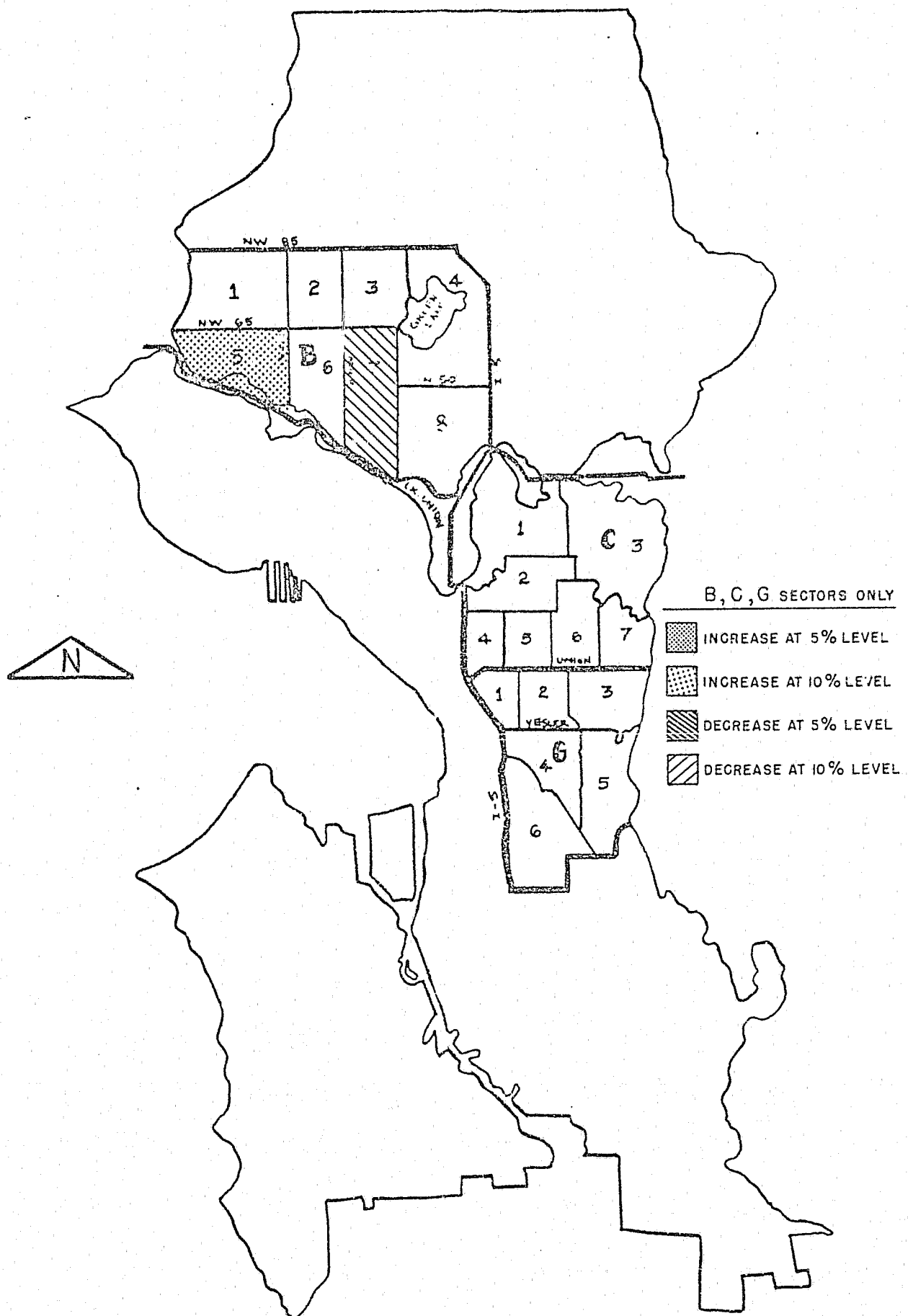
Map 7I4·3 – Wilcoxon Test of Clearance (2) & (4) – Reported Nonresidential Burglaries – Test Sectors (refer to Tables 7I4·3·1, 7I4·3·2 and 7I4·3·3)

VIII. ANALYSES OF ALL SECTORS

The results presented in this chapter would be similar to those in the previous chapter, except here all the sectors in the city were compared. In fact, the studies for all the car beats in the city were done and are available in the file.

Table 8·1 is the results summary table for this chapter, and the comments on that are in Chapter XI, Conclusions and Recommendations. The formats of Table 8·1 and Table 7·1 are similar. Therefore, the general interpretation criteria presented in Chapter VII would also apply to this chapter.

As stated in the preceding chapter, the statistical summaries should be reviewed from as many different angles as possible. Here, again, we present the examination of aggregate scores of the total columns.

TEST SECTORS

B	5 plus	4 minus	Minimal impact – trend down
C	3 plus	14 minus	Burglary (ratio) down – clearance down
G	9 plus	4 minus	Mixed results; trend (ratio) down

NON-TEST SECTORS

D	7 +	1 -		Burglary up
Q	8	5		Burglary (ratio) down; clearance up
U	3	10		Ratio unchanged
K	6	2		Total burglaries up; ratio unchanged
W	16	2		The most startling increase city-wide
R	8	3		Total burglary ratio unchanged
N	12	7		Ratio unchanged; burglaries up

The test sectors show an average, per sector, of 5.67 plus and 7.33 minus. The non-test sectors, on the other hand, average 8.57 plus and 4.29 minus, indicating a significantly worse record than the test sectors. Inasmuch as the purpose of the grant was to improve the performance in the test sectors over what it would otherwise have been (as measured by the non-test sectors), we can infer the primary goal was attained. It should be pointed out these averages are rather crude measures which reflect the heterogeneity of the 51 different kinds of statistics.

It is of further interest to note that the ratio of total burglaries were reduced with statistical significance in one of three test sectors, and one of seven non-test sectors. None of the other sectors exhibited sufficient change in ratio to attain statistical significance. Another observation shows the raw number of total burglaries to be significantly up in one of the three test areas, but up in four of the seven non-test areas.

If we concentrate on residential burglaries only, we find the raw numbers up with statistical significance in five of the seven non-test sectors, but in <u>none</u> of the test sectors!

Force of entry might be one way of evaluating the efforts of the citizen component. Assuming a reduction in the ratio of "no force" residential burglaries to be a barometer of success, we find this result in two of the three sectors and only one of the seven non-test, with one of the non-test sectors showing an increase!!. Unfortunately, the efforts of the citizen component were focused in one test sector only for much of the grant period, bringing into question the cause/effect of the result obtained.

TABLE 8·1 Wilcoxon Test Results Summary Table - All Sectors

SECTOR	NO. OF REPORTED BURGLARIES			RATIO OF REPORTED BURGLARIES			RATIO OF PREMISES			RATIO OF FORCE OF ENTRY — MAJOR FORCE			MINOR FORCE			NO FORCE			AVERAGE STOLEN VALUE			AVERAGE RECOVERED VALUE			RECOVERED STOLEN RATIO		
	T/B	R/B	N/B	T/B	R/B	N/B	HOUSE	APT.	OTHERS	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B
B						(-)5				(-)10	(-)10							(-)5	(+)10	(+)10	(+)10						
C				(-)5	(-)5				(-)5			(-)5				(-)5	(-)5		(+)5	(+)5							
G	(+)5							(+)5								(-)5	(-)5		(+)5	(+)5		(+)5	(+)5			(+)5	
D	(+)5	(+)5	(+)10			(+)10			(-)5										(+)5		(+)10						
Q				(-)10	(-)5		(-)5			(-)5	(-)5									(+)10		(+)5	(+)5		(+)10	(+)5	
U		(+)5	(-)5			(-)5	(-)5											(-)5	(+)10		(+)10						
K		(+)10					(+)5	(-)5						(+)5					(+)10		(+)5		(+)10				
W	(+)5	(+)5			(+)10	(-)10	(+)10									(+)5	(+)5		(+)10		(+)10			(+)10			
R	(+)5		(+)10		(-)10												(-)10		(+)5	(+)5	(+)10	(+)5					
N	(+)5	(+)5														(+)10			(+)5	(+)5		(+)5	(+)5	(+)5	(+)5	(+)10	(+)5

TABLE 8·1 Wilcoxon Test Results Summary Table – All Sectors (cont.)

SECTOR	CLEARANCE (1)			CLEARANCE (2)			CLEARANCE (3)			CLEARANCE (4)			CLEARANCE (1) & (2)			CLEARANCE (3) & (4)			CLEARANCE (1) & (3)			CLEARANCE (2) & (4)		
	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B	T/B	R/B	N/B
B				(+)5	(+)10																			
C									(−)5	(−)5	(−)5		(−)5	(−)10		(−)5	(+)5					(−)5	(−)5	
G				(+)5	(+)5					(−)5	(−)5													
D																			(+)10					
Q											(+)10				(+)5		(+)10				(+)10			
U							(−)5	(−)5					(−)5		(−)5				(−)5	(−)5				
K												(−)5												
W				(+)5	(+)5	(+)5	(+)10						(+)10	(−)10			(+)5		(+)10					
R				(+)5	(+)5				(−)10															
N		(+)10					(−)5	(−)10								(−)5	(−)10		(−)5	(−)5	(−)5			

T/B = REPORTED TOTAL BURGLARIES
R/B = REPORTED RESIDENTIAL BURGLARIES
N/B = REPORTED NONRESIDENTIAL BURGLARIES

(+) = SIGNIFICANT INCREASE
(−) = SIGNIFICANT DECREASE
5 = SIGNIFICANT DIFFERENCE AT 5% LEVEL
10 = SIGNIFICANT DIFFERENCE AT 10% LEVEL

CLEARANCE (1) = ARREST – ADULT OR ADULT WITH JUVENILE
CLEARANCE (2) = ARREST – JUVENILE ONLY
CLEARANCE (3) = EXCEPTIONAL – ADULT OR ADULT WITH JUVENILE
CLEARANCE (4) = EXCEPTIONAL – JUVENILE ONLY
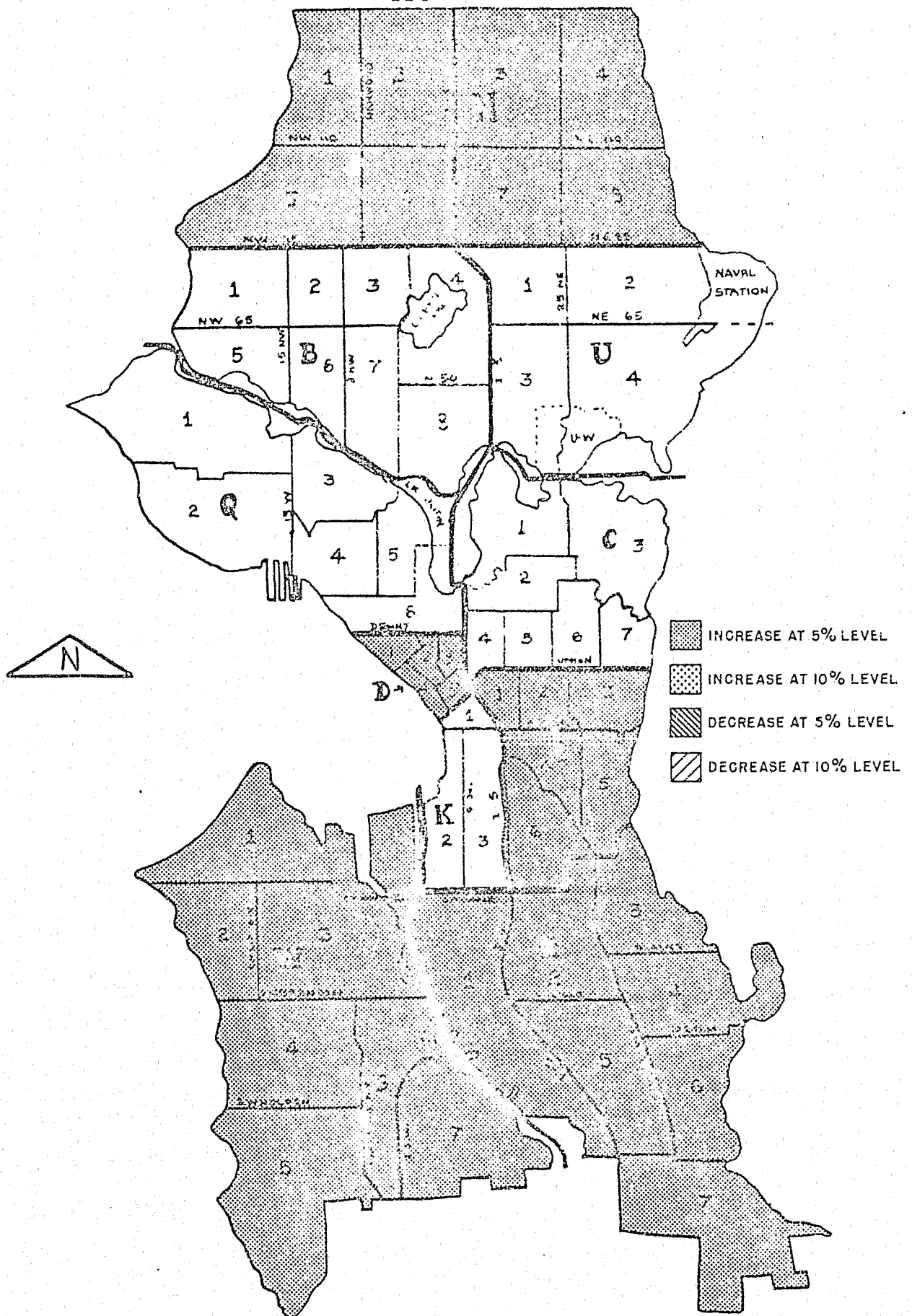
INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 8A1 –   Wilcoxon Test of Numbers of Reported Total Burglaries –
All Sectors (refer to Table 8A1)

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 8A2 -   Wilcoxon Test of Numbers of Reported Residential Burglaries -
All Sectors (refer to Table 8A2)
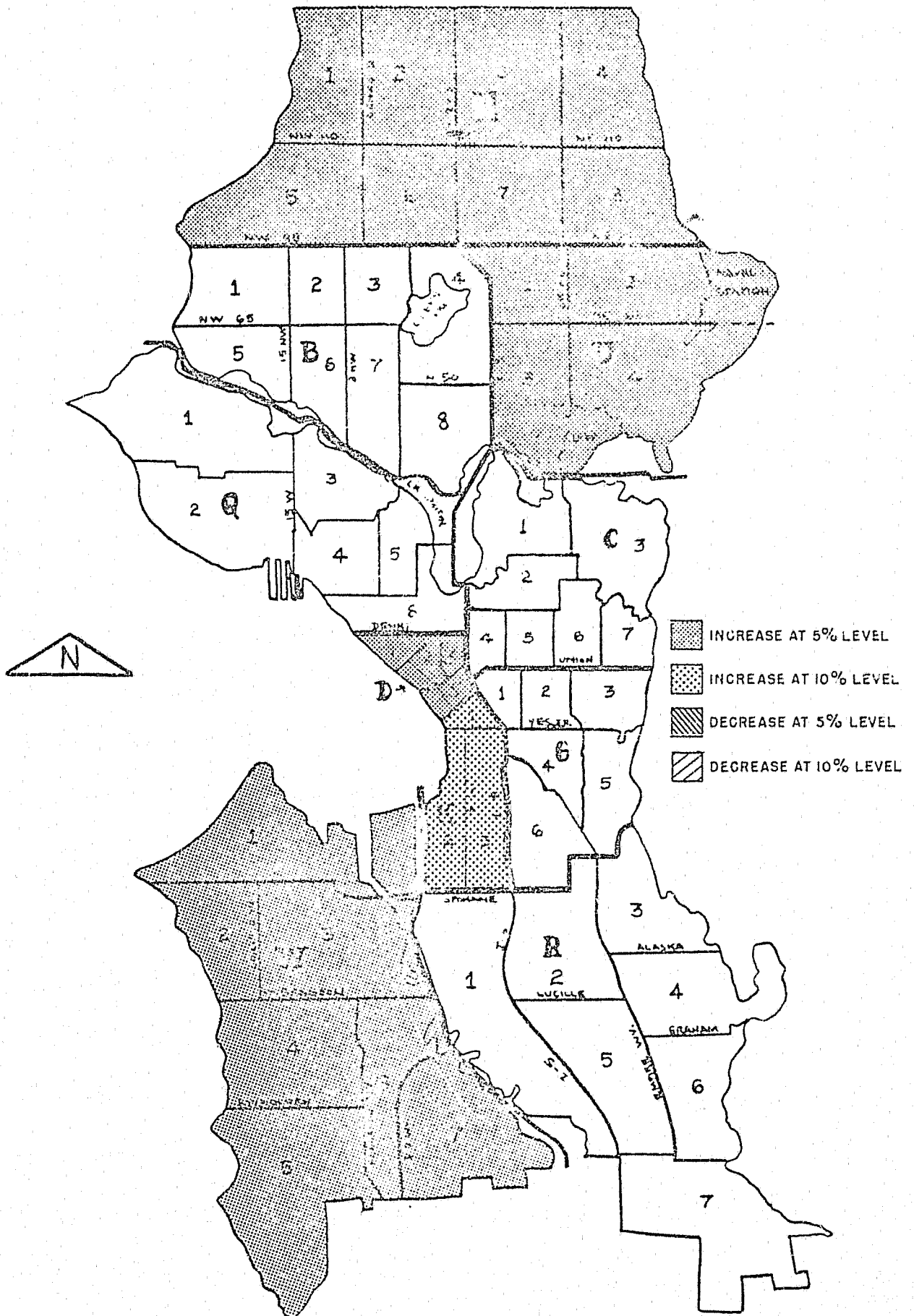
Map 8A3 –   Wilcoxon Test of Numbers of Reported Nonresidential Burglaries –
All Sectors (refer to Table 8A3)
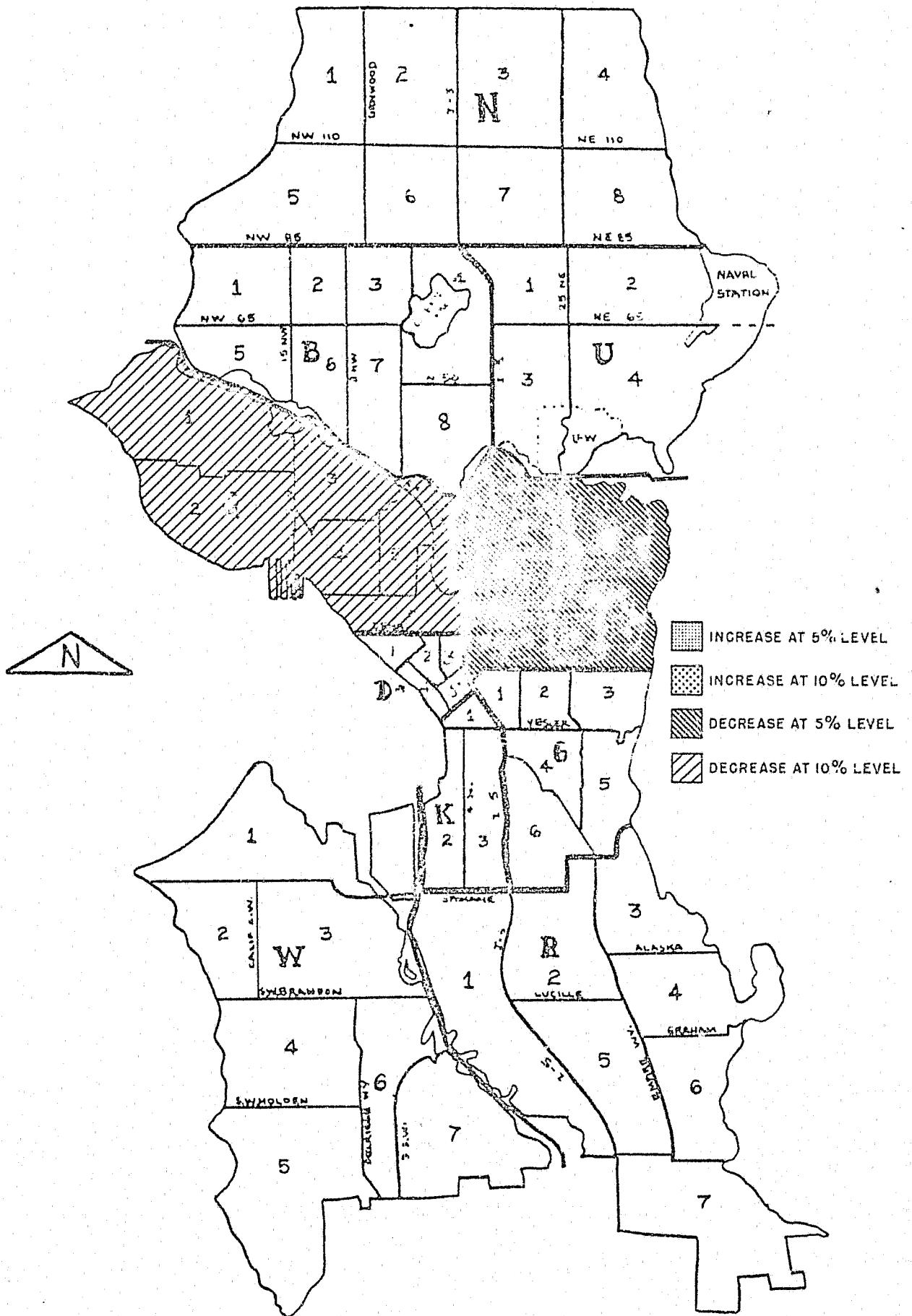
Map 8B1 - Wilcoxon Test of Ratio of Reported Total Burglaries -
All Sectors (refer to Table 8B1)
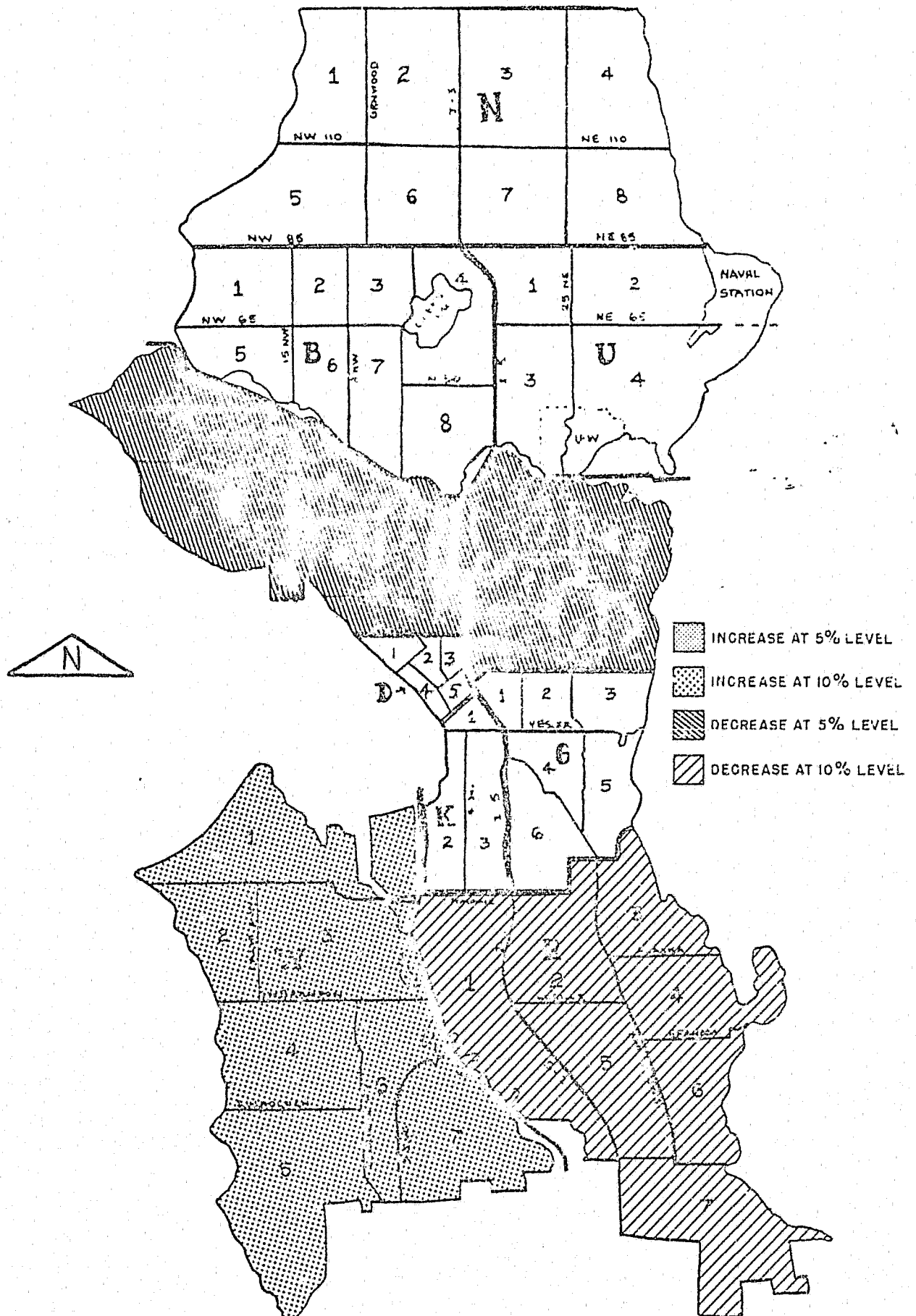
Map 8B2 — Wilcoxon Test of Ratio of Reported Residential Burglaries — All Sectors (refer to Table 8B2)

Map 8B3 –   Wilcoxon Test of Ratio of Reported Nonresidential Burglaries –
All Sectors (refer to Table 8B3)

Map 8C1 –   Wilcoxon Test of House Burglary Ratio –
All Sectors (refer to Table 8C1)
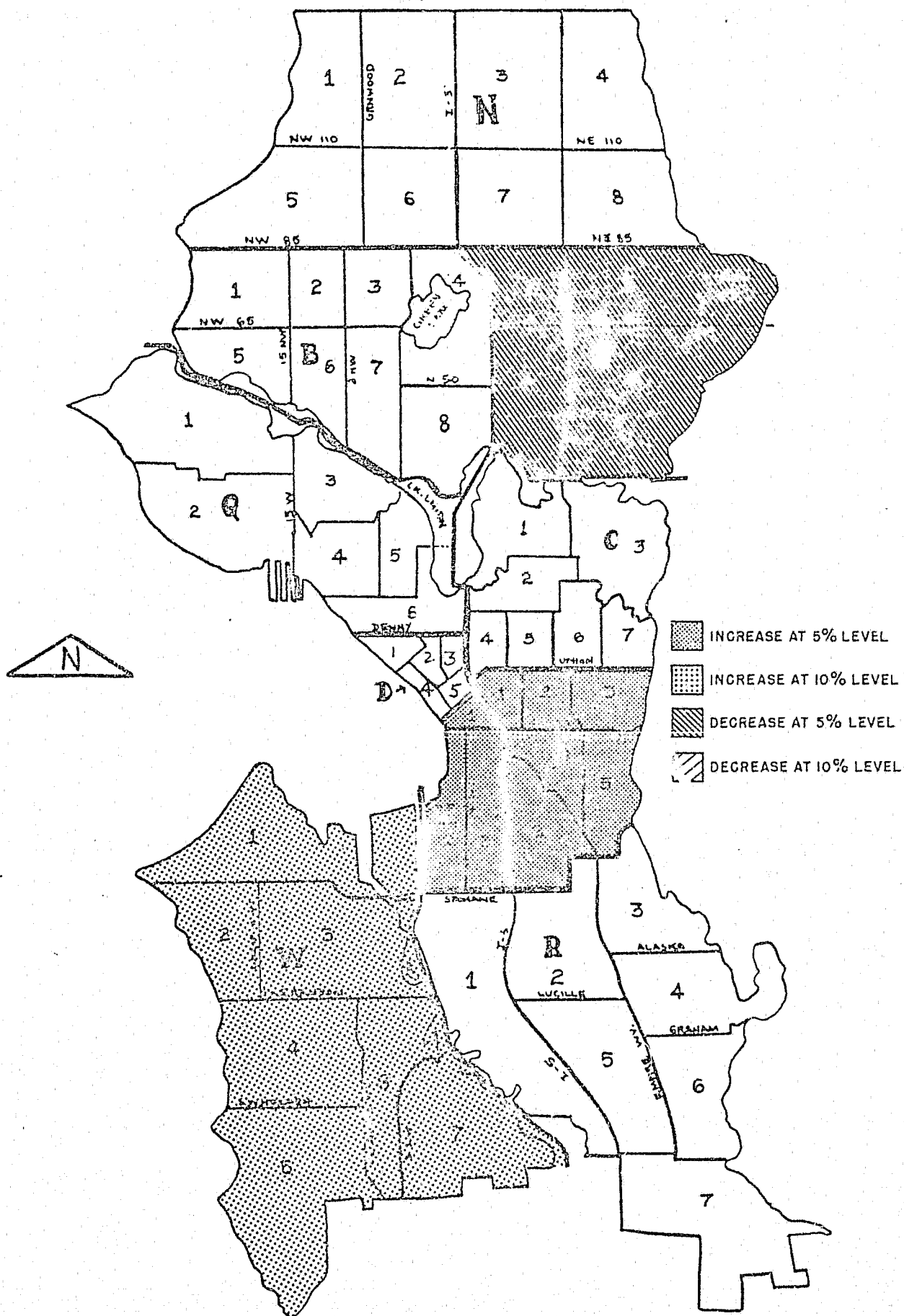
Map 8C2 –   Wilcoxon Test of Apartment Burglary Ratio –
All Sectors (refer to Table 8C2)
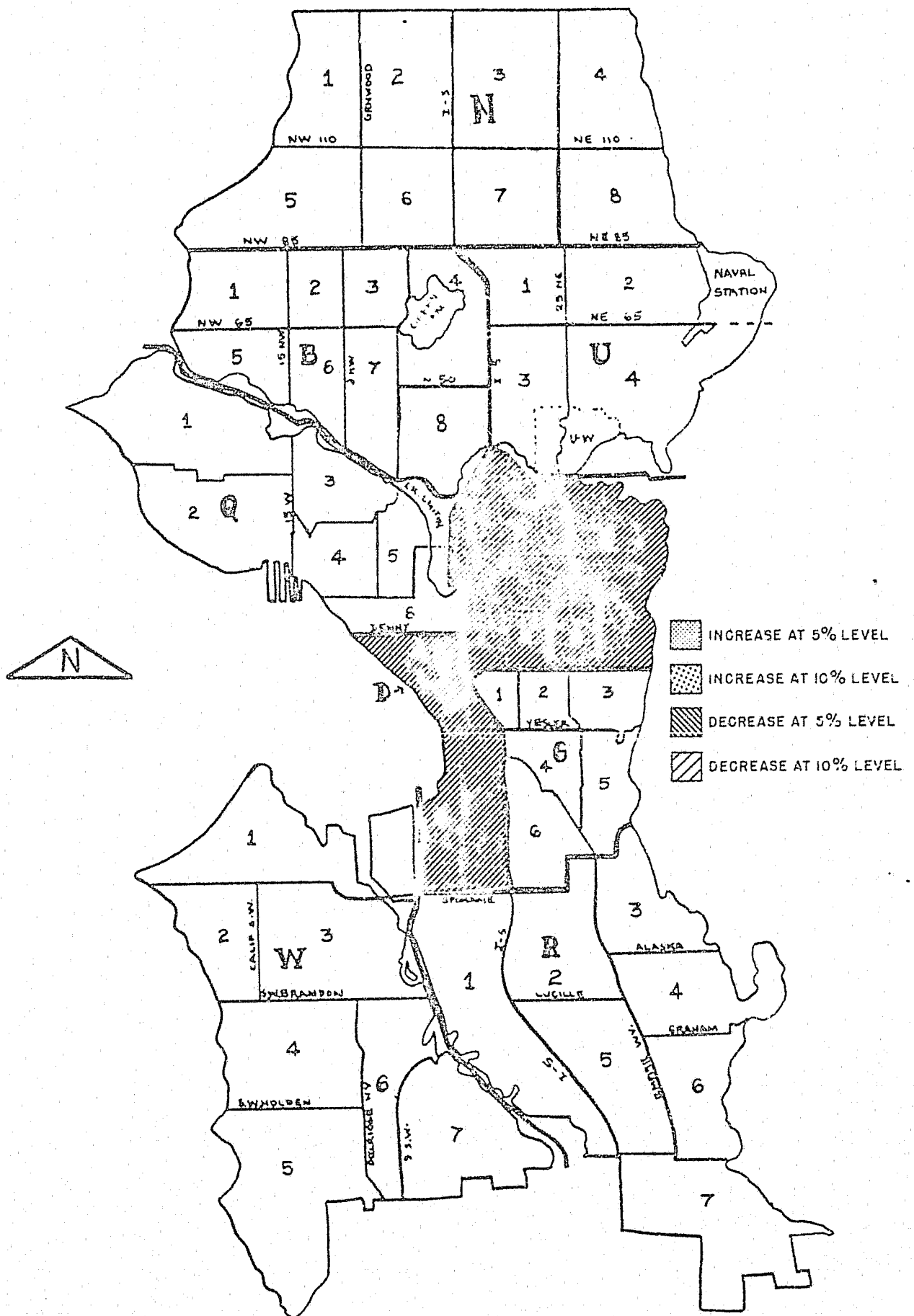
Map 8C3 –   Wilcoxon Test of Other Burglary Ratios (Motel, Hotel, the Dorms, ···etc.) All Sectors (refer to Table 8C3)
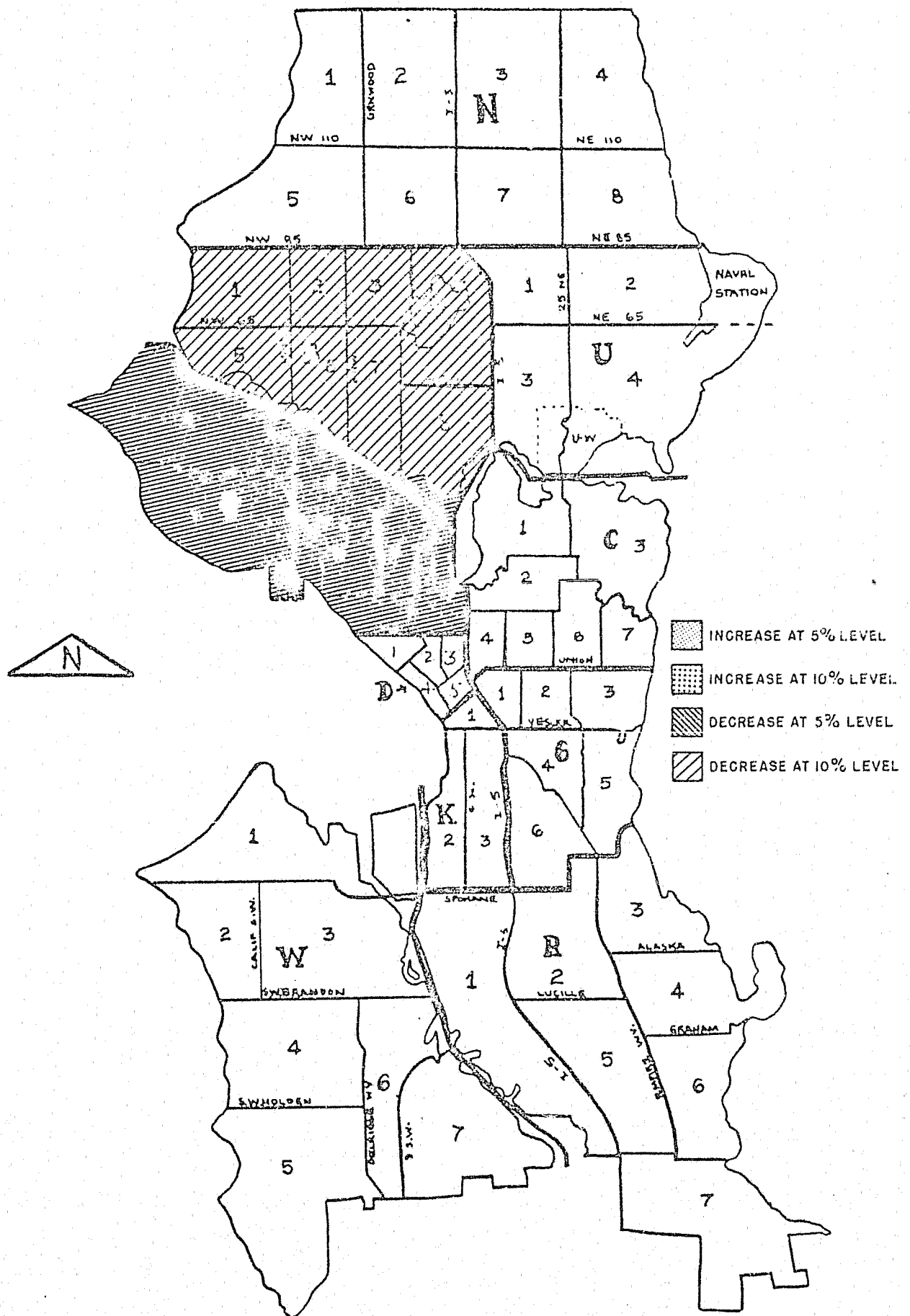
Map 8D1·1 — Wilcoxon Test of Reported Total Burglary Ratio With Major Force of Entry – All Sectors (refer to Table 8D1·1)

Map 8D1·2 –   Wilcoxon Test of Reported Residential Burglary Ratio With
Major Force of Entry – All Sectors   (refer to Table 8D1·2)

Map 8D1·3 —   Wilcoxon Test of Reported Nonresidential Burglary Ratio
With Major Force of Entry – All Sectors (refer to Table 8D1·3)

N

1   2   3   4

NW 110   NE 110

5   6   7   8

NW 85   NE 85

1   2   3   4   1   2   NAVAL STATION

NW 65   25 NE   NE 65

5   B   6   7   3   U   4

15 NW   N 50   U.W

1   8

2   Q   3   L.K. UNION

4   5   1   C   3

6   2

DENNY

1   2   3   4   5   6   7

UNION

D   4   5   1   2   3

YESLR

6

5

6

1

1

2   W   3

S.W.BRANDON

4   1   B   2   ALASKA

S.W.HOLDEN   LUCILE

5   6   GRAHAM

7   5   6

7

N

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
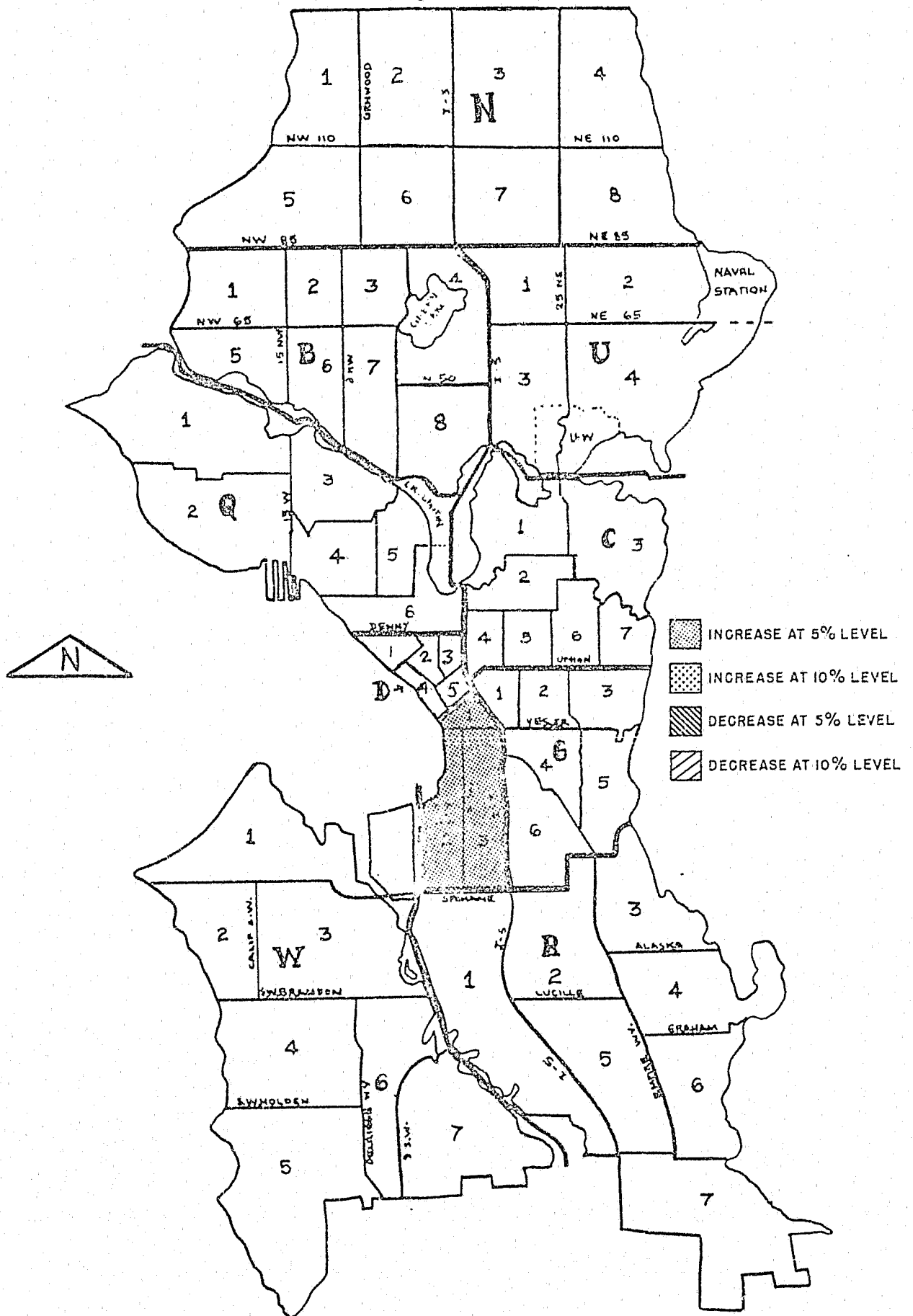
Map 8D2·2 –   Wilcoxon Test of Reported Residential Burglary Ratio
With Minor Force of Entry – All Sectors (refer to Table 8D2·2)
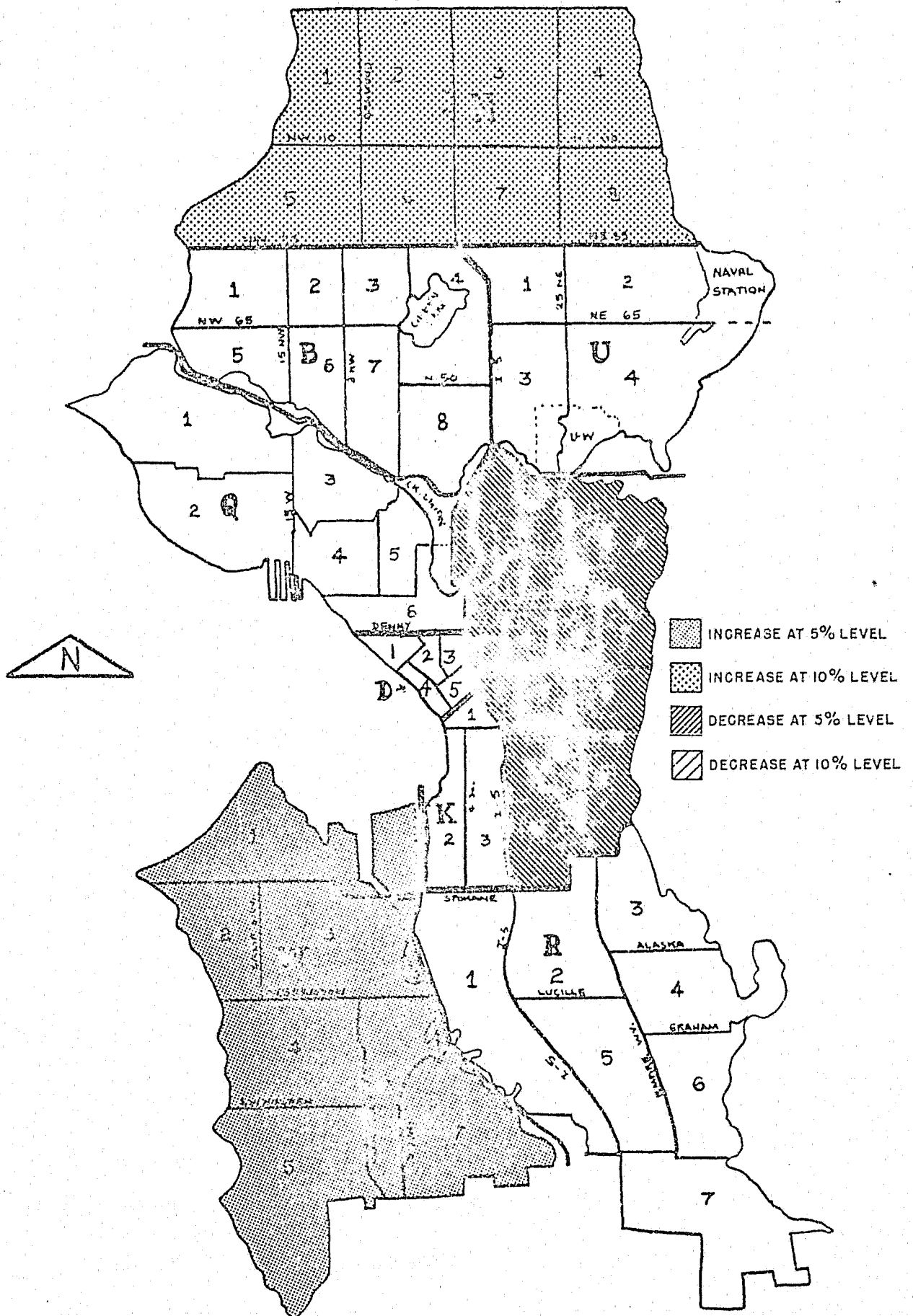
Map 8D3·1 –   Wilcoxon Test of Reported Total Burglary Ratio With No Force
Of Entry – All Sectors (refer to Table 8D3·1)

Map 8D3·2 —   Wilcoxon Test of Reported Residential Burglary Ratio
With No Force of Entry – All Sectors (refer to Table 8D3·2)
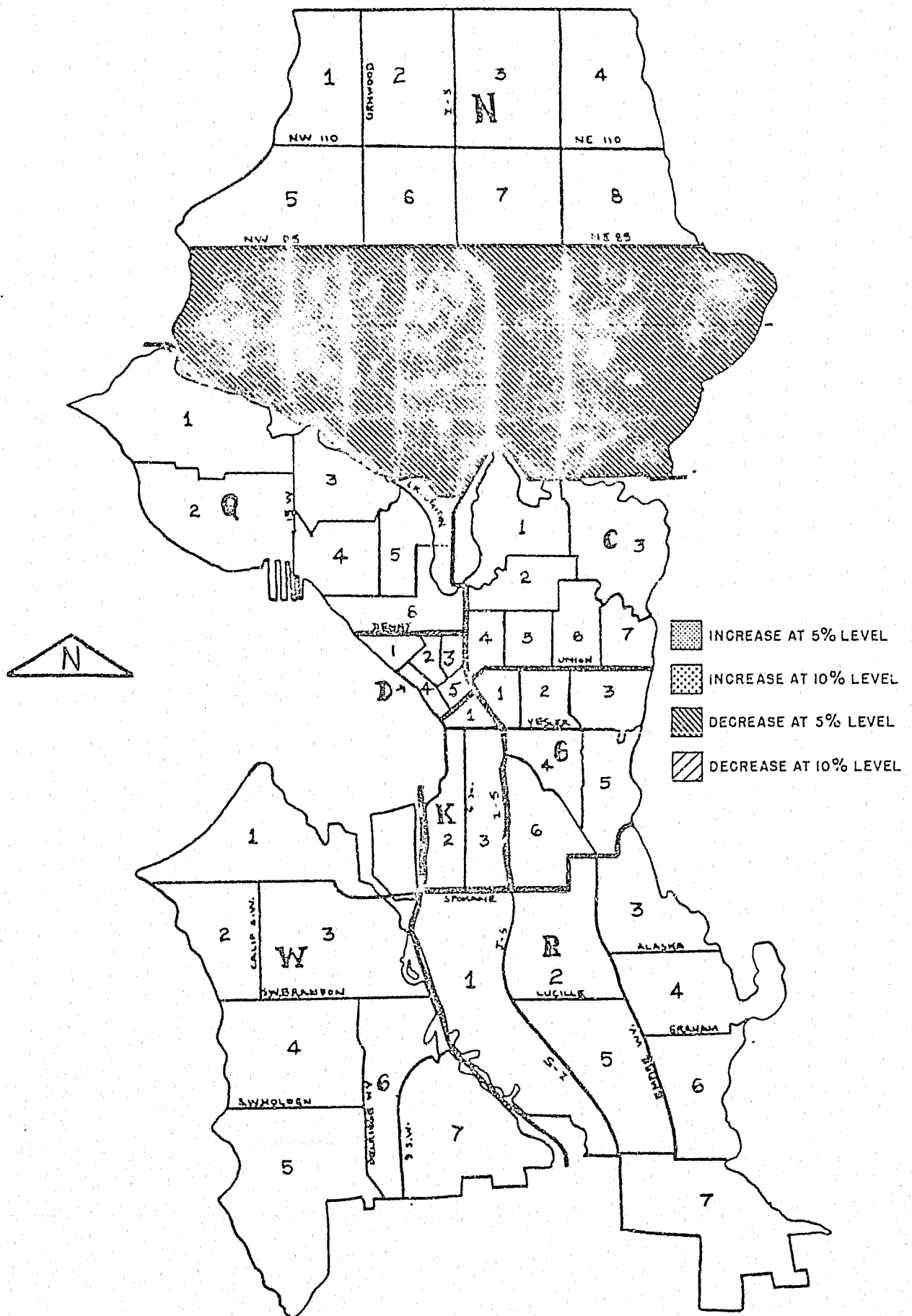
Map 8D3·3 –   Wilcoxon Test of Reported Nonresidential Burglary Ratio
With No Force of Entry – All Sectors (refer to Table 8D3·3)
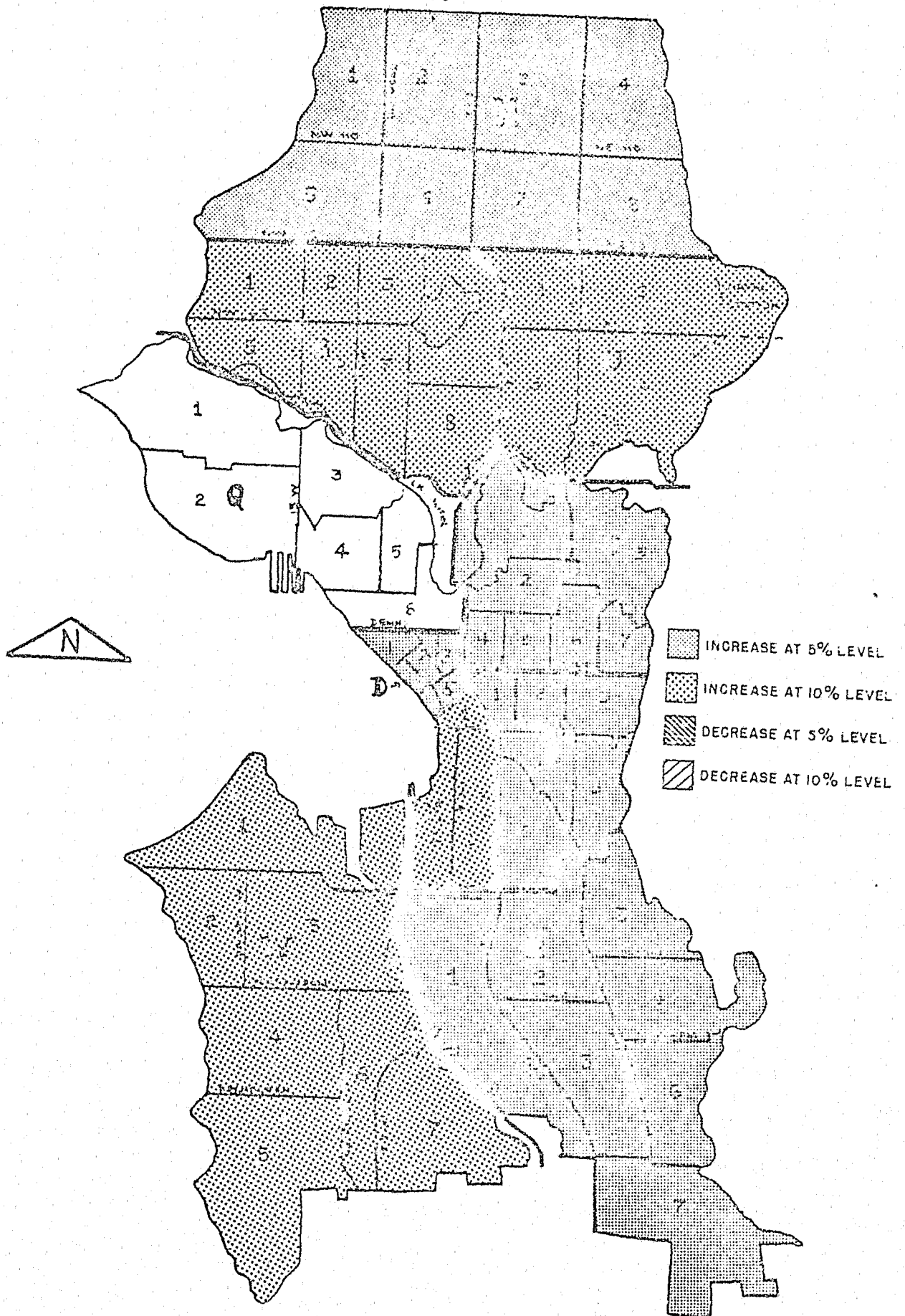
Map 8E1 -   Wilcoxon Test of Average Stolen Value - Reported Total Burglaries - All Sectors (refer to Table 8E1)

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
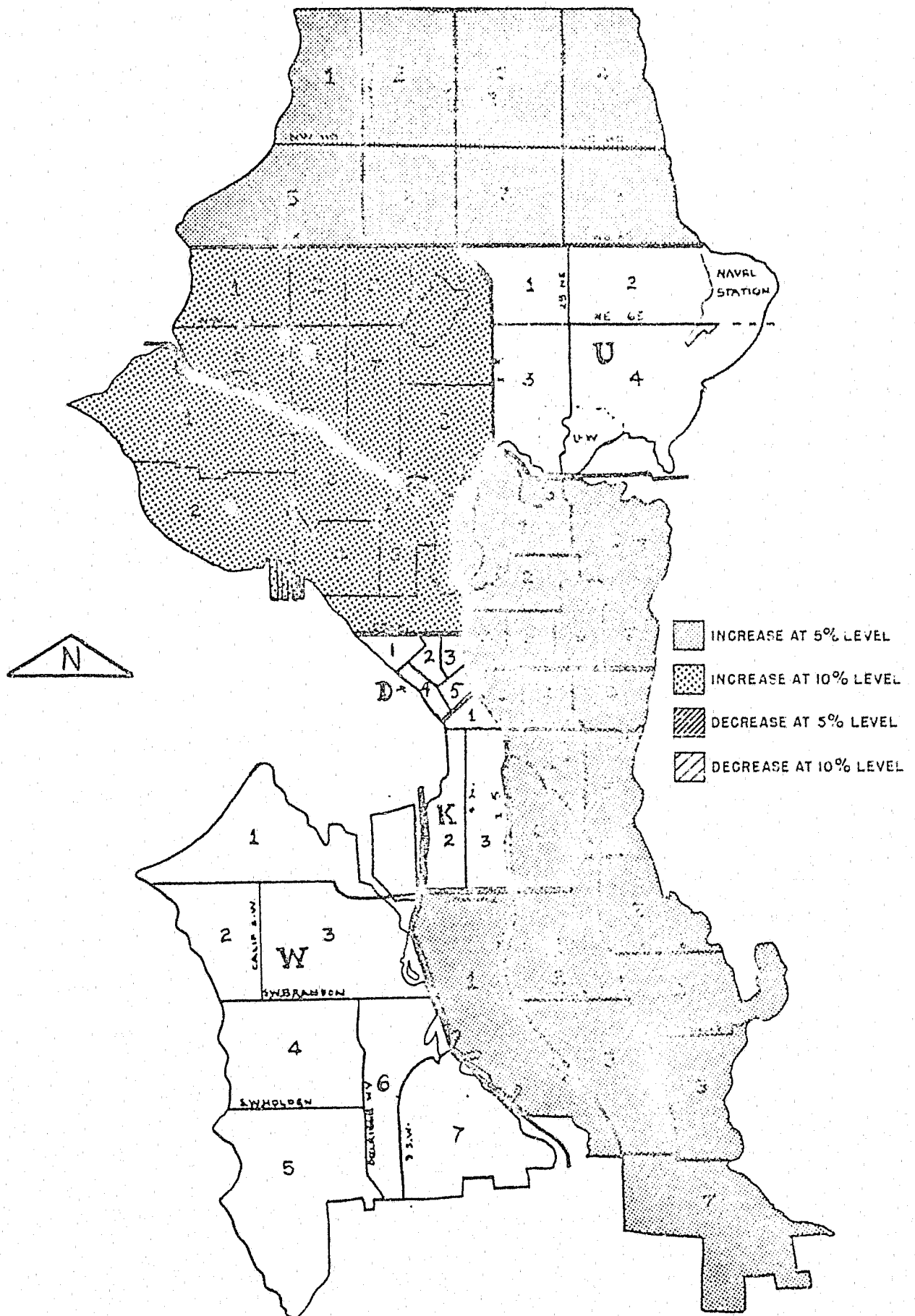
Map 8E2 –   Wilcoxon Test of Average Stolen Value – Reported Residential
Burglaries – All Sectors (refer to Table 8E2)

Map 8E3 –   Wilcoxon Test of Average Stolen Value – Reported Nonresidential Burglaries – All Sectors (refer to Table 8E3)

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
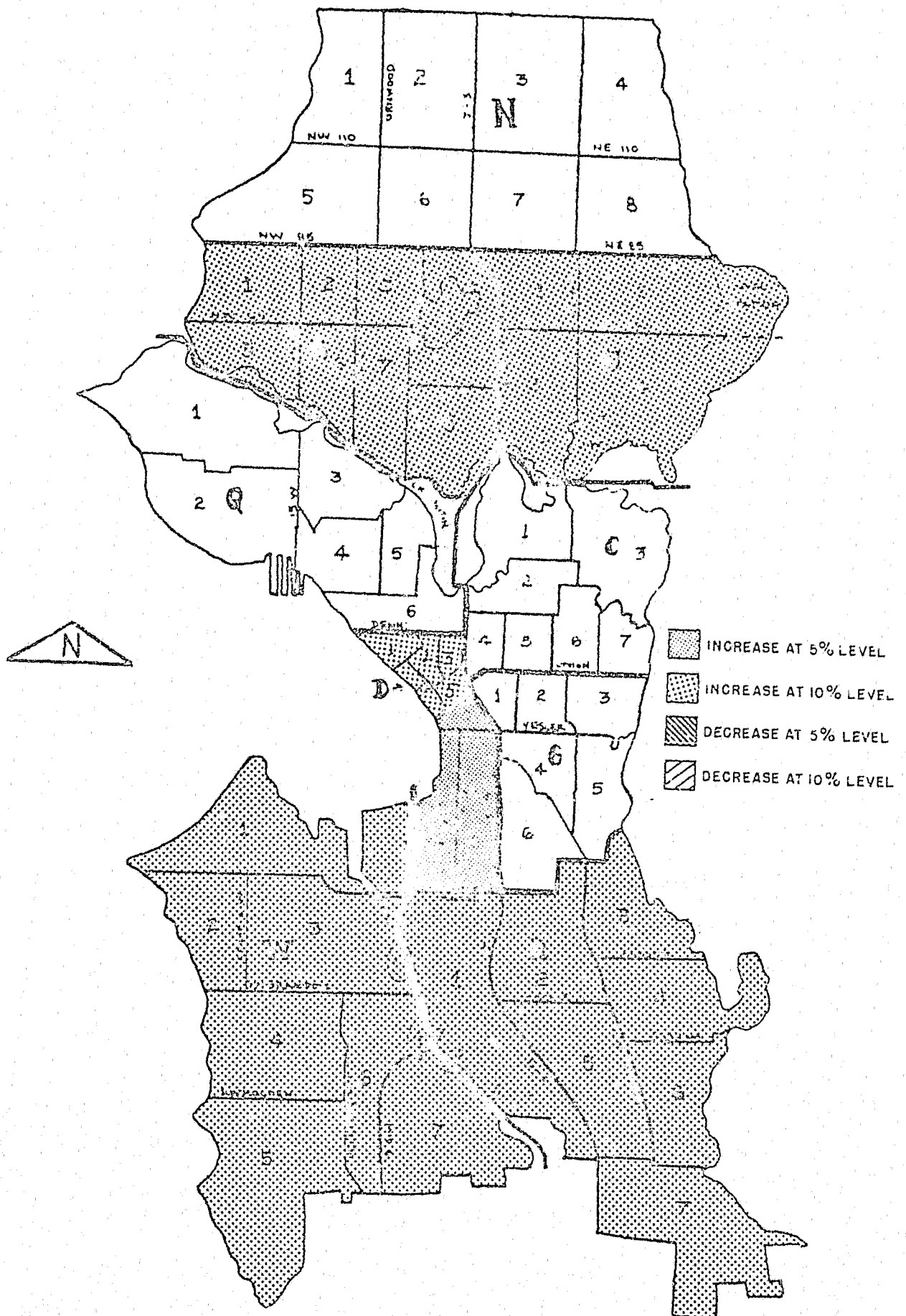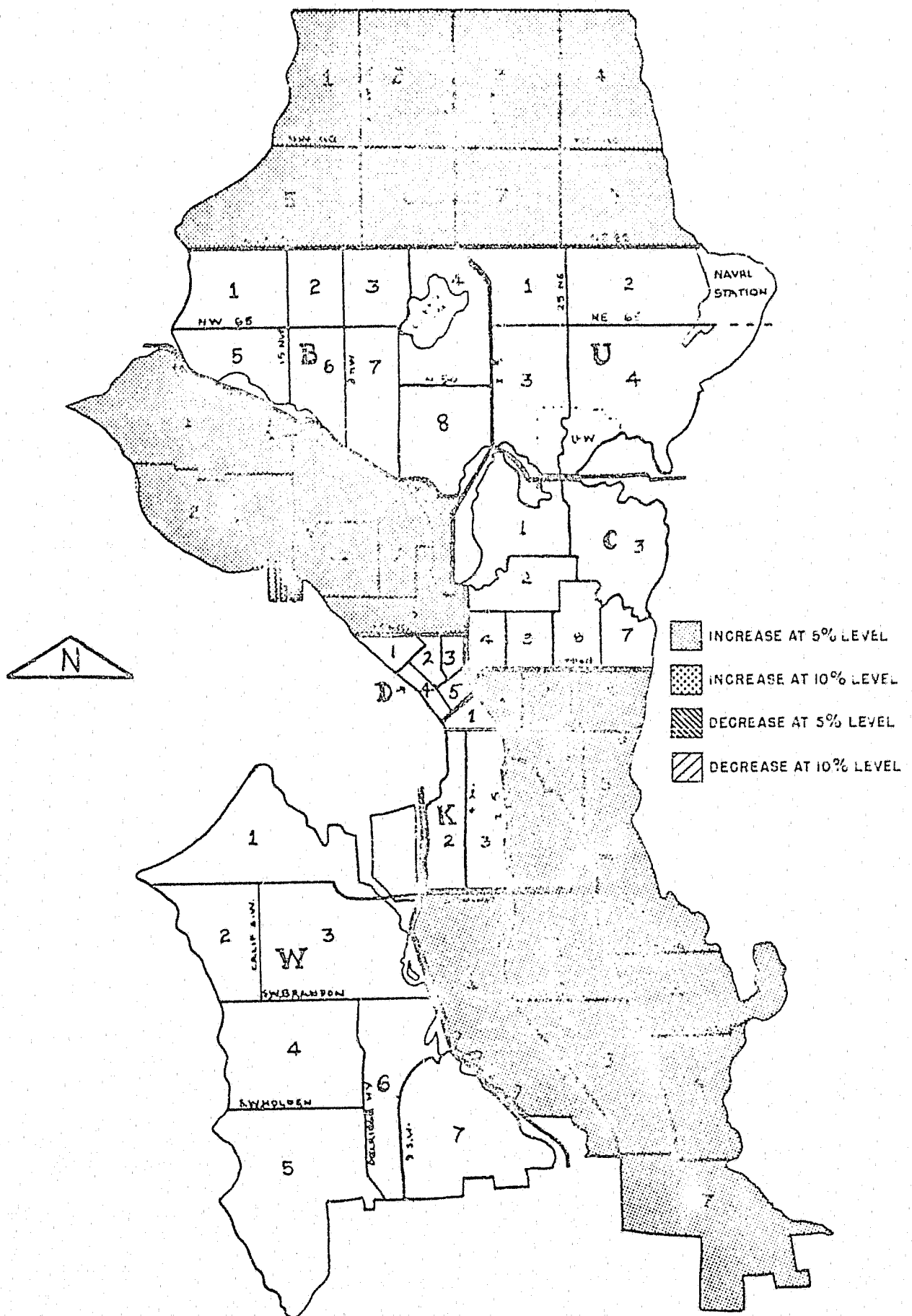
Map 8F1 –   Wilcoxon Test of Average Recovered Value – Reported Total
Burglaries – All Sectors (refer to Table 8F1)
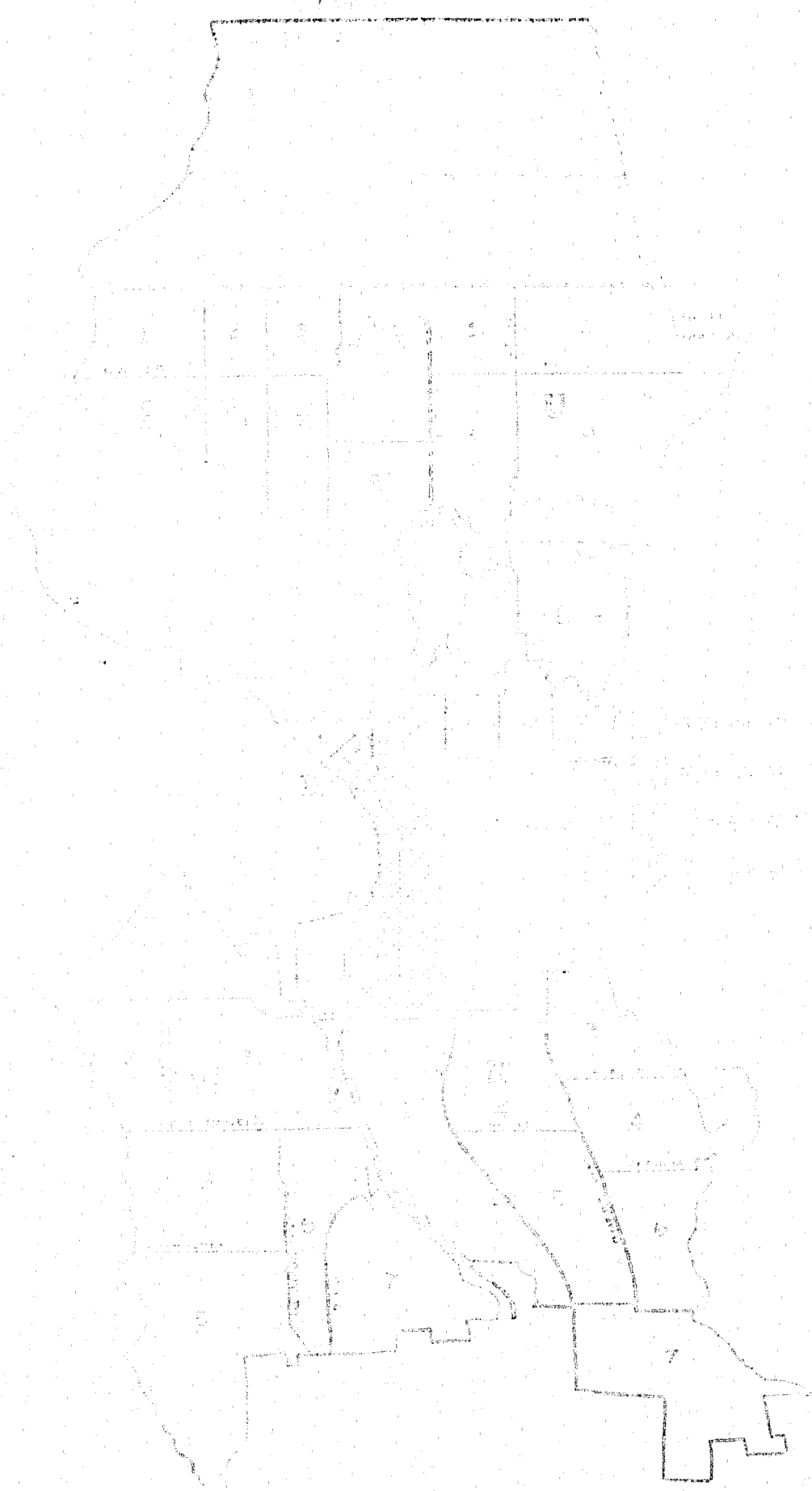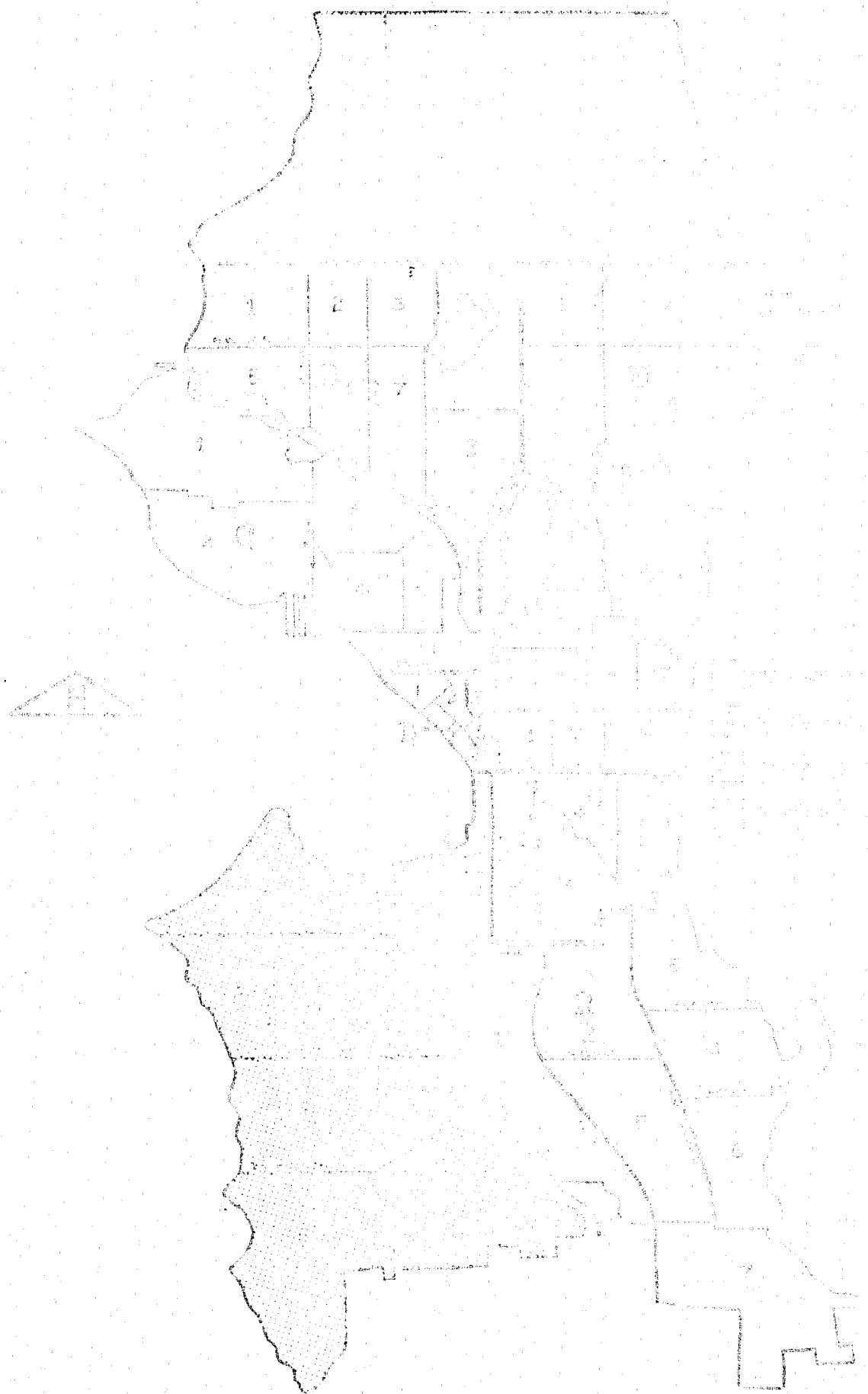
Map III.9 — Wilkendon Tract of Juvenile Reported Gross Burglaries in residential burglaries — Elizabethan Tower (in Table III.2)

Map 8G3 – Wilcoxon Test of (Recovered/Stolen) Value – Reported Nonresidential Burglaries – All Sectors (refer to Table 8G3)
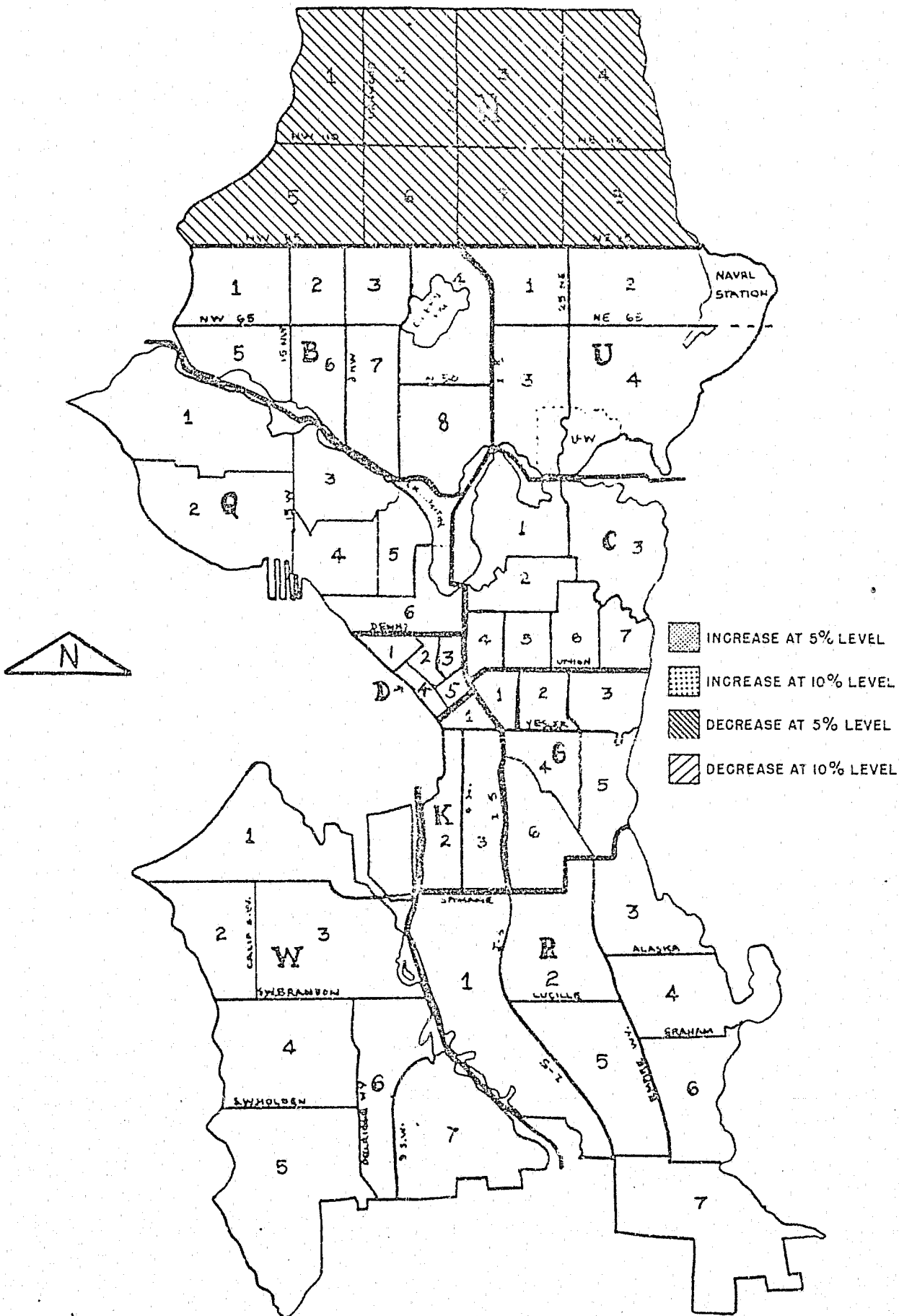
Map 8H1.2 —   Wilcoxon Test of Clearance (1) – Reported Residential
Burglaries – All Sectors   (refer to Table 8H1.2)

Map 8H2·1 –   Wilcoxon Test of Clearance (2) – Reported Total Burglaries –
All Sectors (refer to Table 8H2·1)

Map 8H2·2 – Wilcoxon Test of Clearance (2) – Reported Residential
Burglaries – All Sectors (refer to Table 8H2·2)
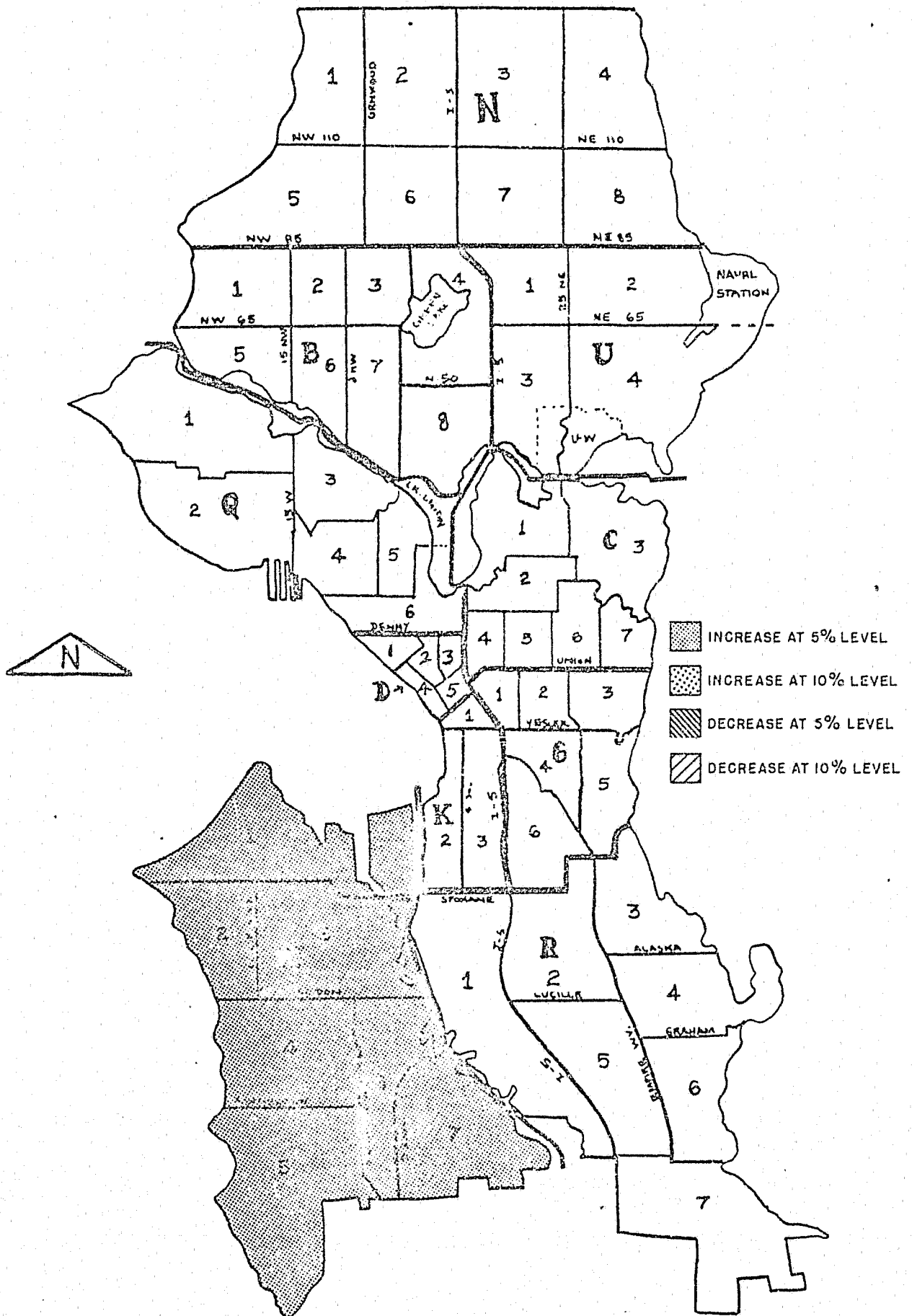
Map 8H2·3 – Wilcoxon Test of Clearance (2) – Reported Nonresidential
Burglaries – All Sectors (refer to Table 8H2·3)
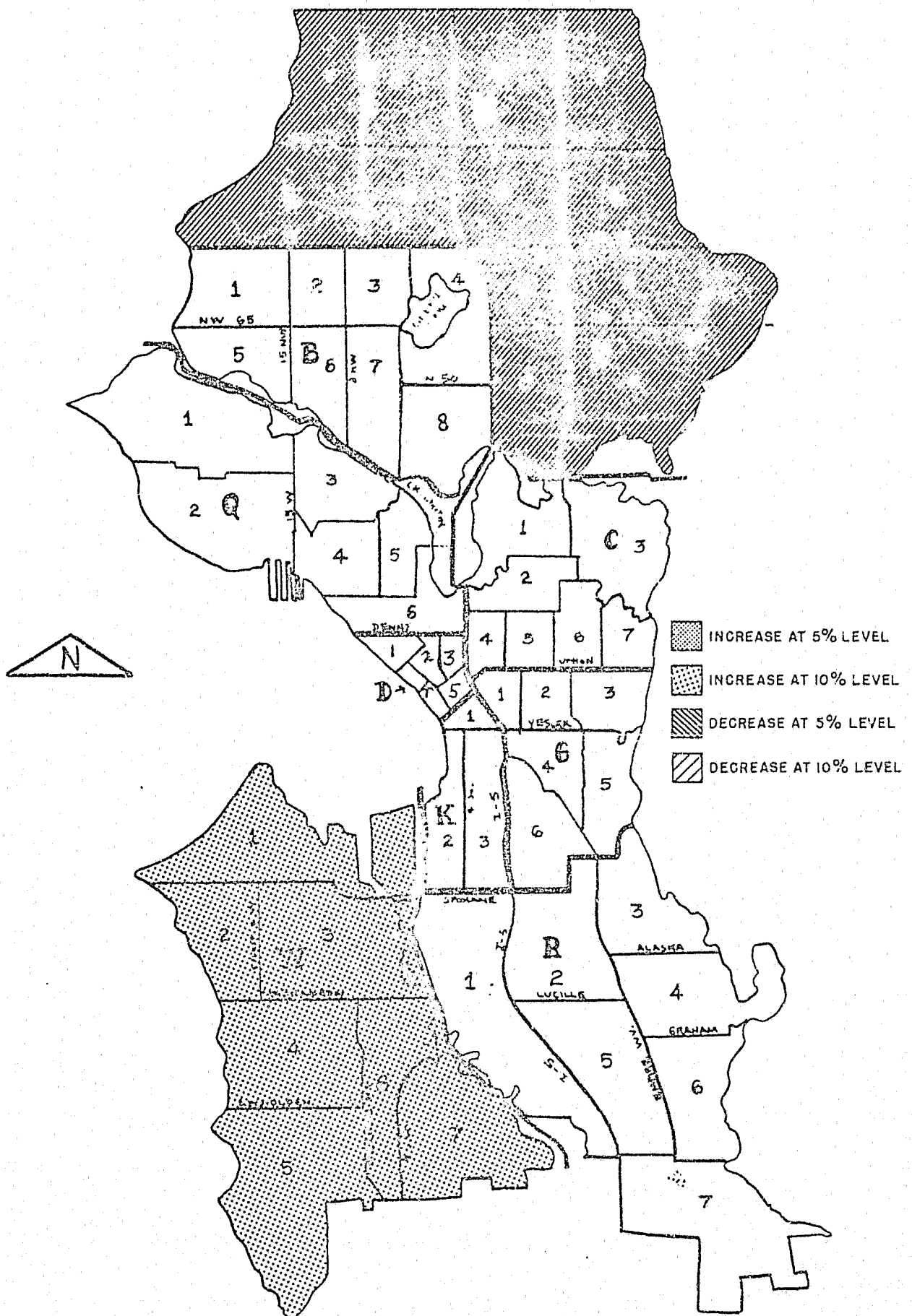
Map 8H3·1 — Wilcoxon Test of Clearance (3) – Reported Total Burglaries –
All Sectors (refer to Table 8H3·1)

Map 8H3·2 — Wilcoxon Test of Clearance (3) – Reported Residential
Burglaries – All Sectors (refer to Table 8H3·2)

LEGEND:
- INCREASE AT 5% LEVEL
- INCREASE AT 10% LEVEL
- DECREASE AT 5% LEVEL
- DECREASE AT 10% LEVEL
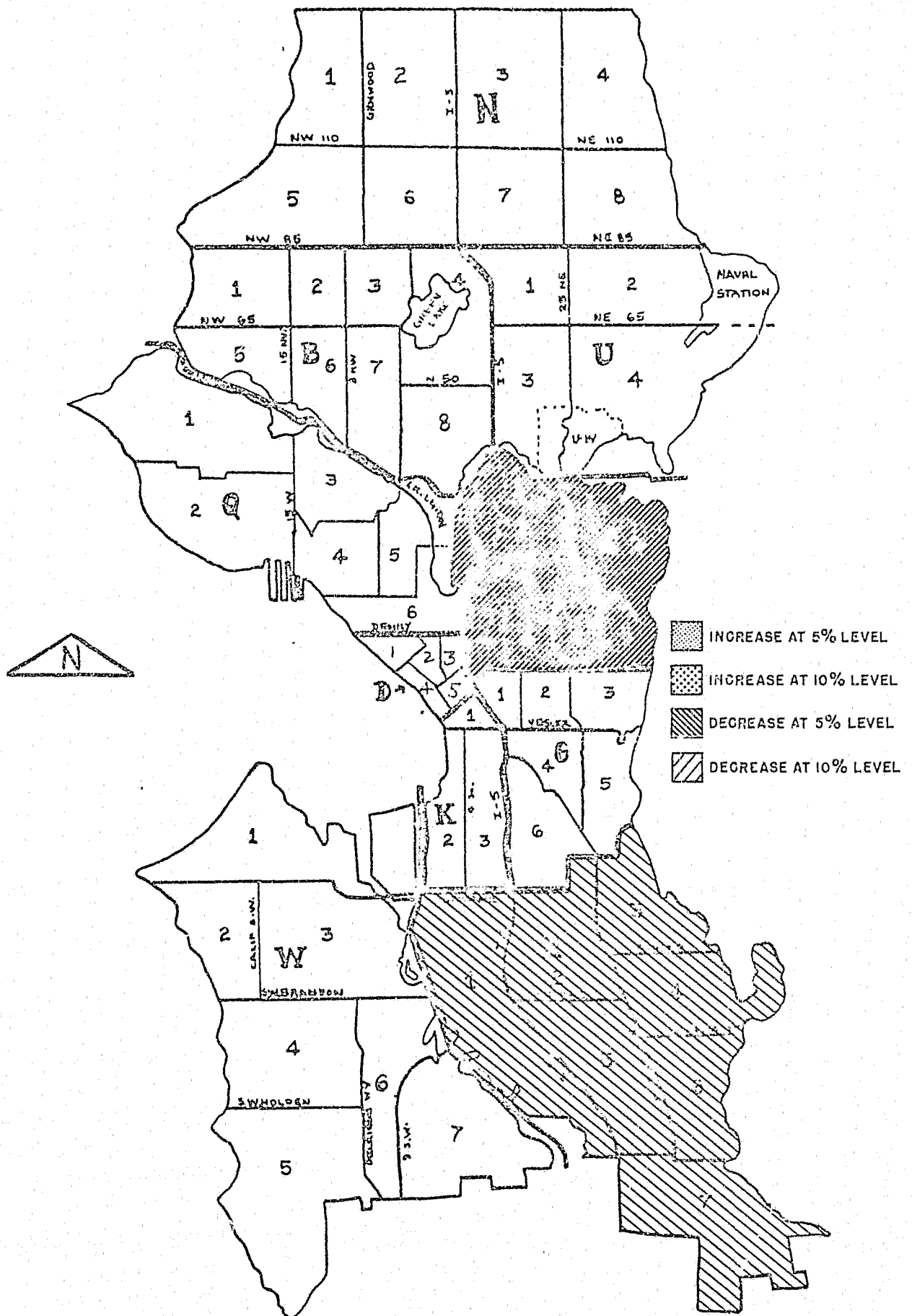
Map 8H3·3 — Wilcoxon Test of Clearance (3) — Reported Nonresidential Burglaries — All Sectors (refer to Table 8H3·3)
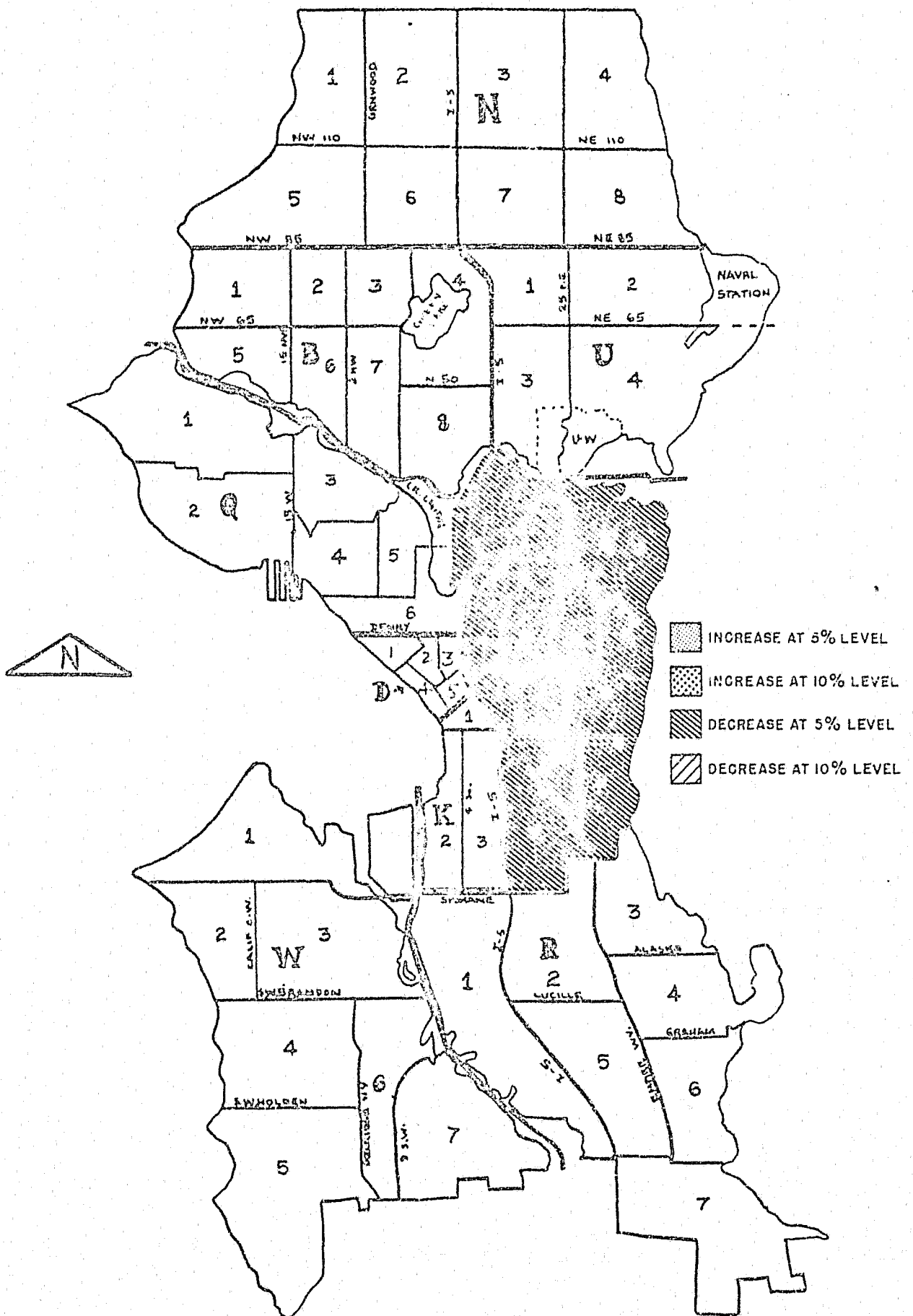
Map 8H4·1 – Wilcoxon Test of Clearance (4) – Reported Total Burglaries –
All Sectors (refer to Table 8H4·1)
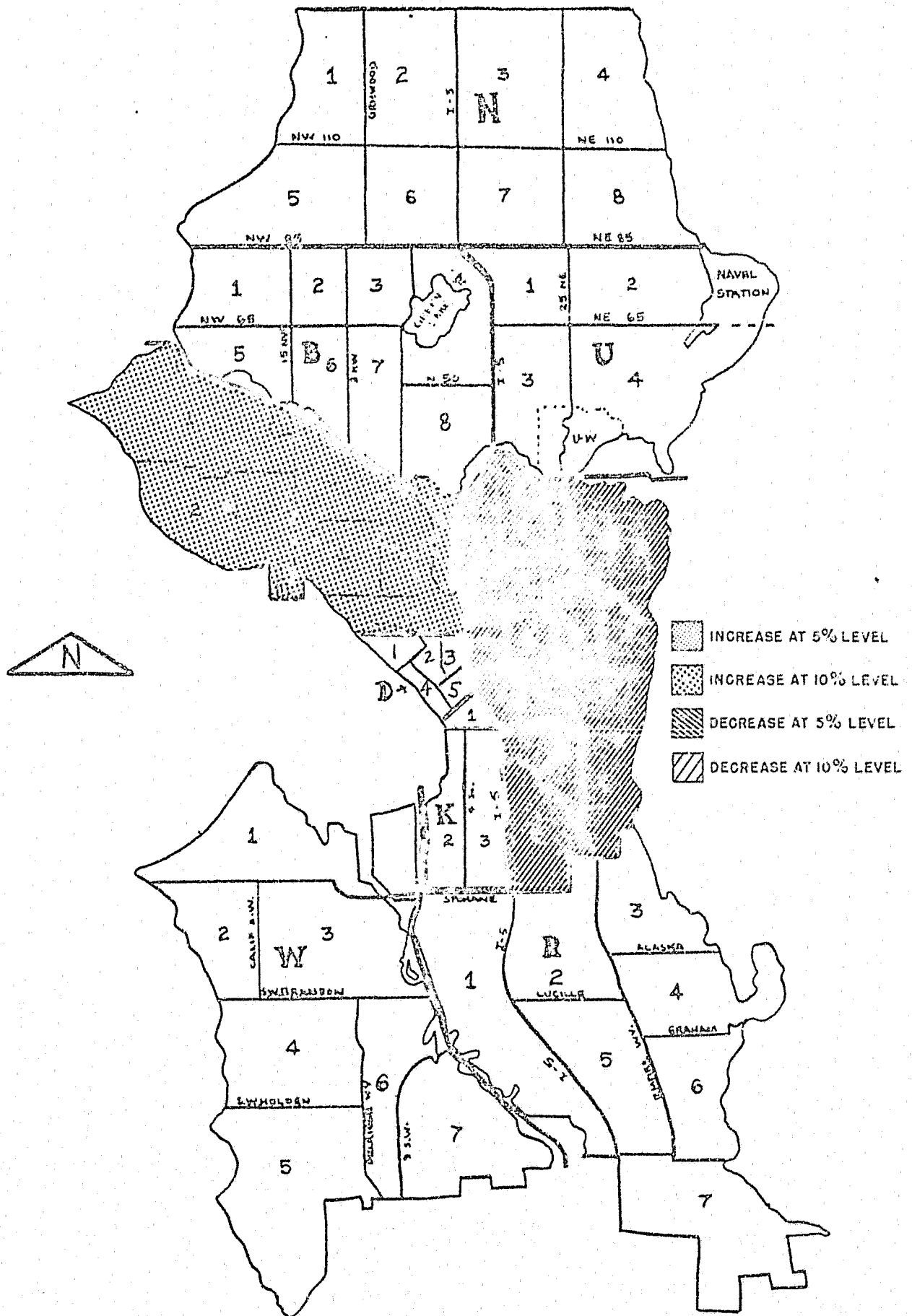
Map 8H4·2 – Wilcoxon Test of Clearance (4) – Reported Residential Burglaries – All Sectors (refer to Table 8H4·2)

Map 8H4·3 – Wilcoxon Test of Clearance (4) – Reported Nonresidential
Burglaries – All sectors (refer to Table 8H4·3)

Map 8I1·1 — Wilcoxon Test of Clearance (1) & (2) - Reported Total Burglaries - All Sectors (refer to Table 8I1·1)
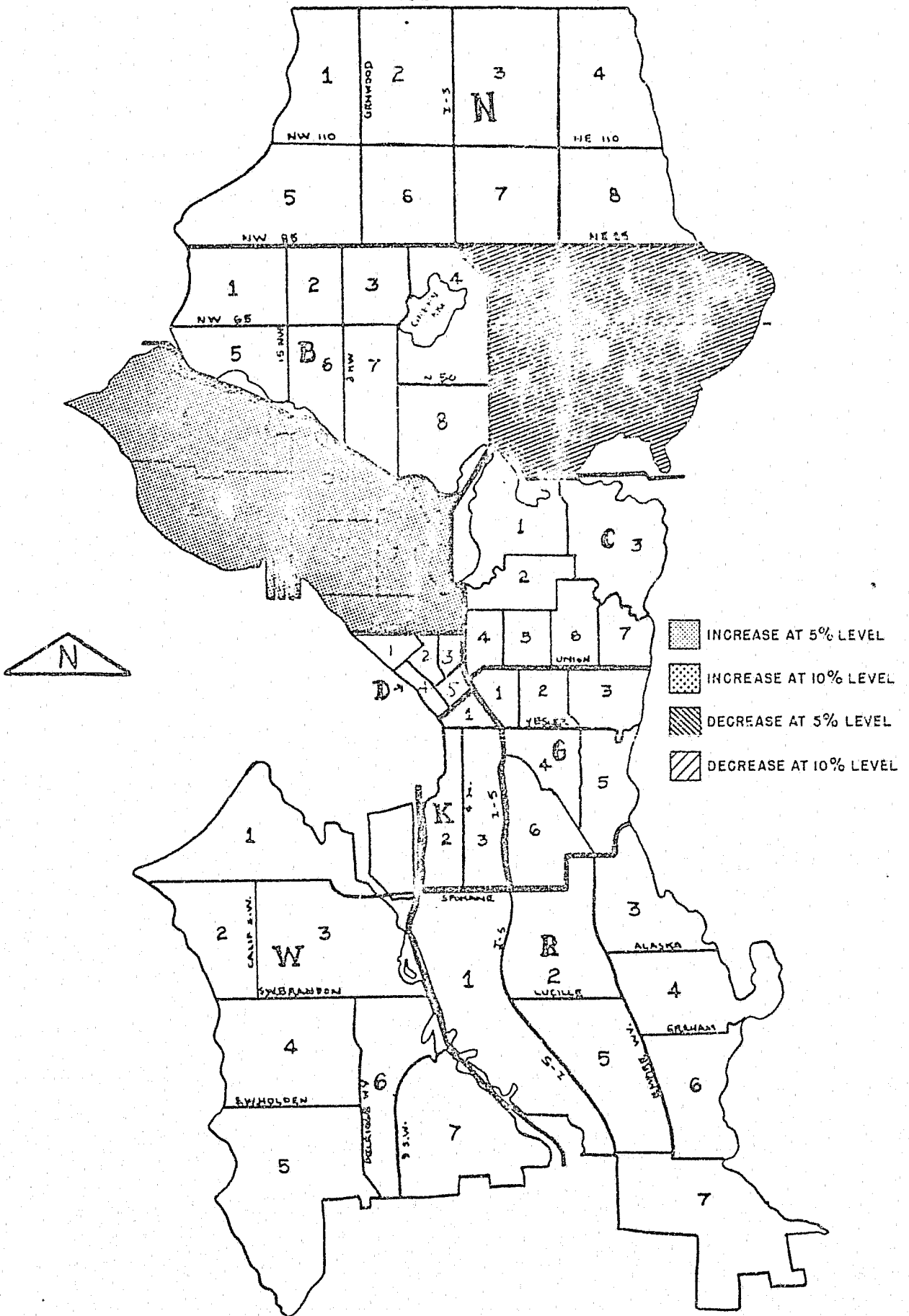
Map 8I1·2 –   Wilcoxon Test of Clearance (1) & (2) – Reported Residential
Burglaries – All Sectors (refer to Table 8I1·2)

Map 8I1·3 — Wilcoxon Test of Clearance (1) & (2) – Reported Nonresidential
Burglaries – All Sectors (refer to Table 8I1·3)

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
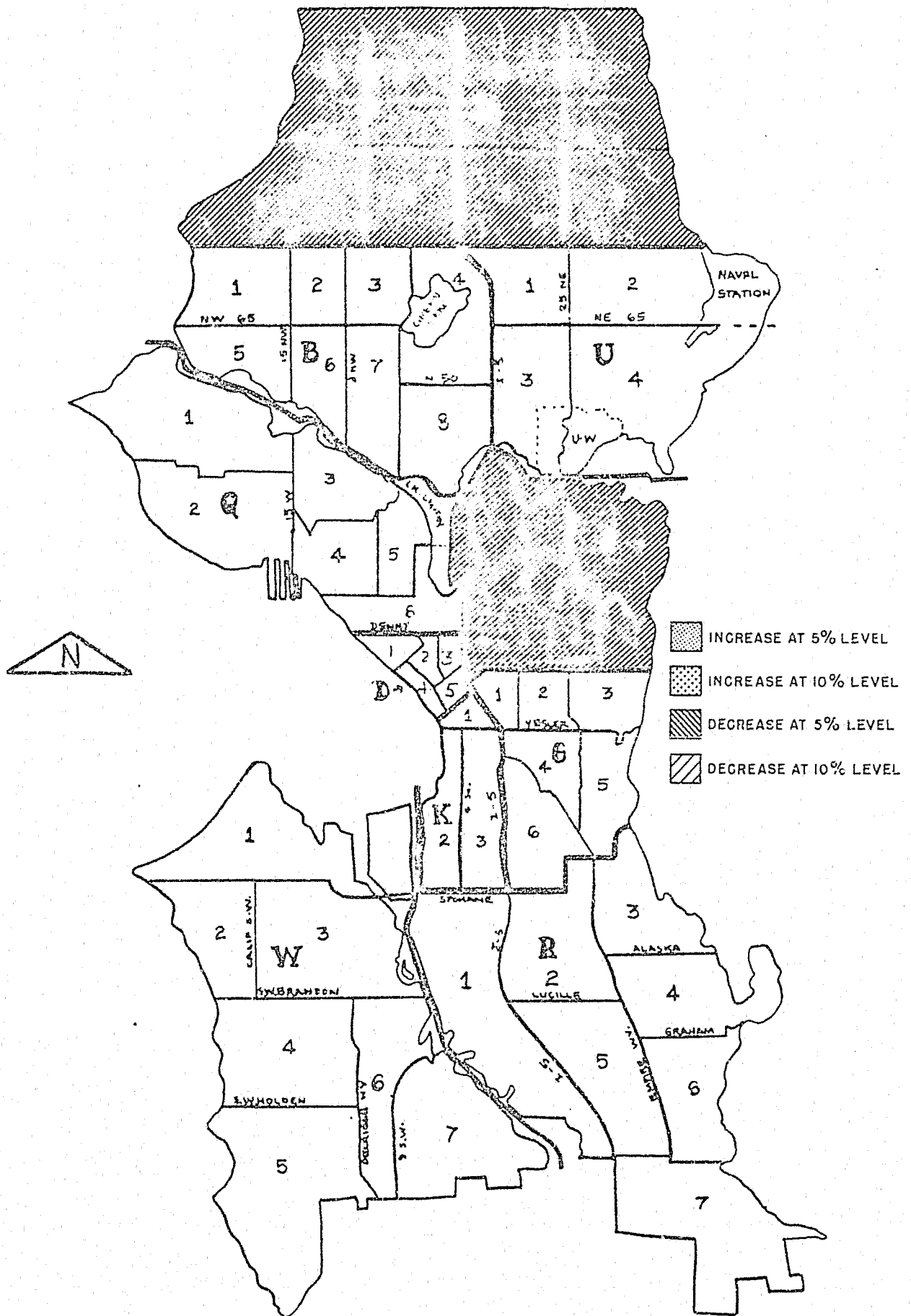
Map 8I2·1 — Wilcoxon Test of Clearance (3) & (4) — Reported Total Burglaries — All Sectors (refer to Table 8I2·1)
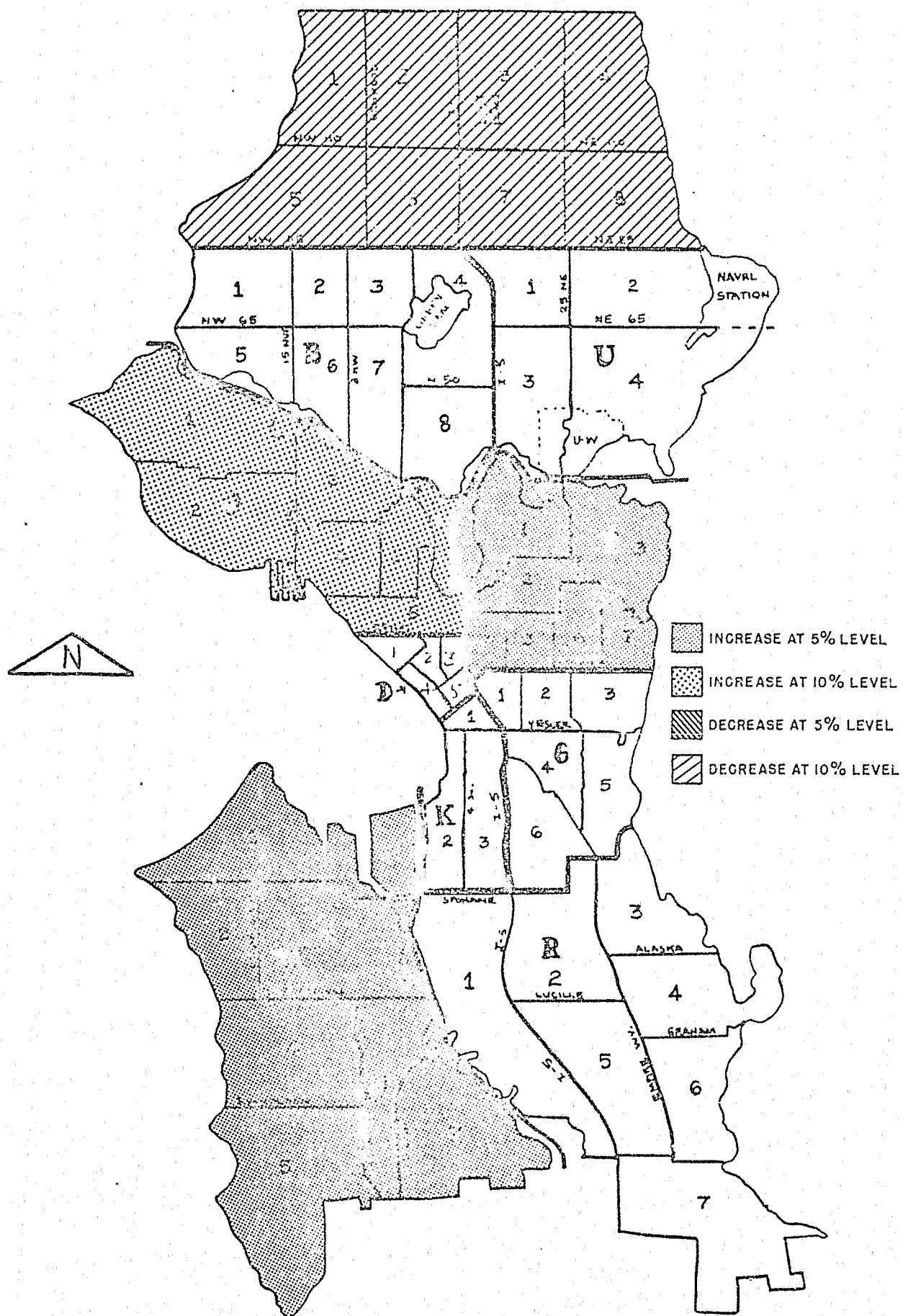
Map 8I2·2 -   Wilcoxon Test of Clearance (3) & (4) - Reported Residential
Burglaries - All Sectors (refer to Table 8I2·2)
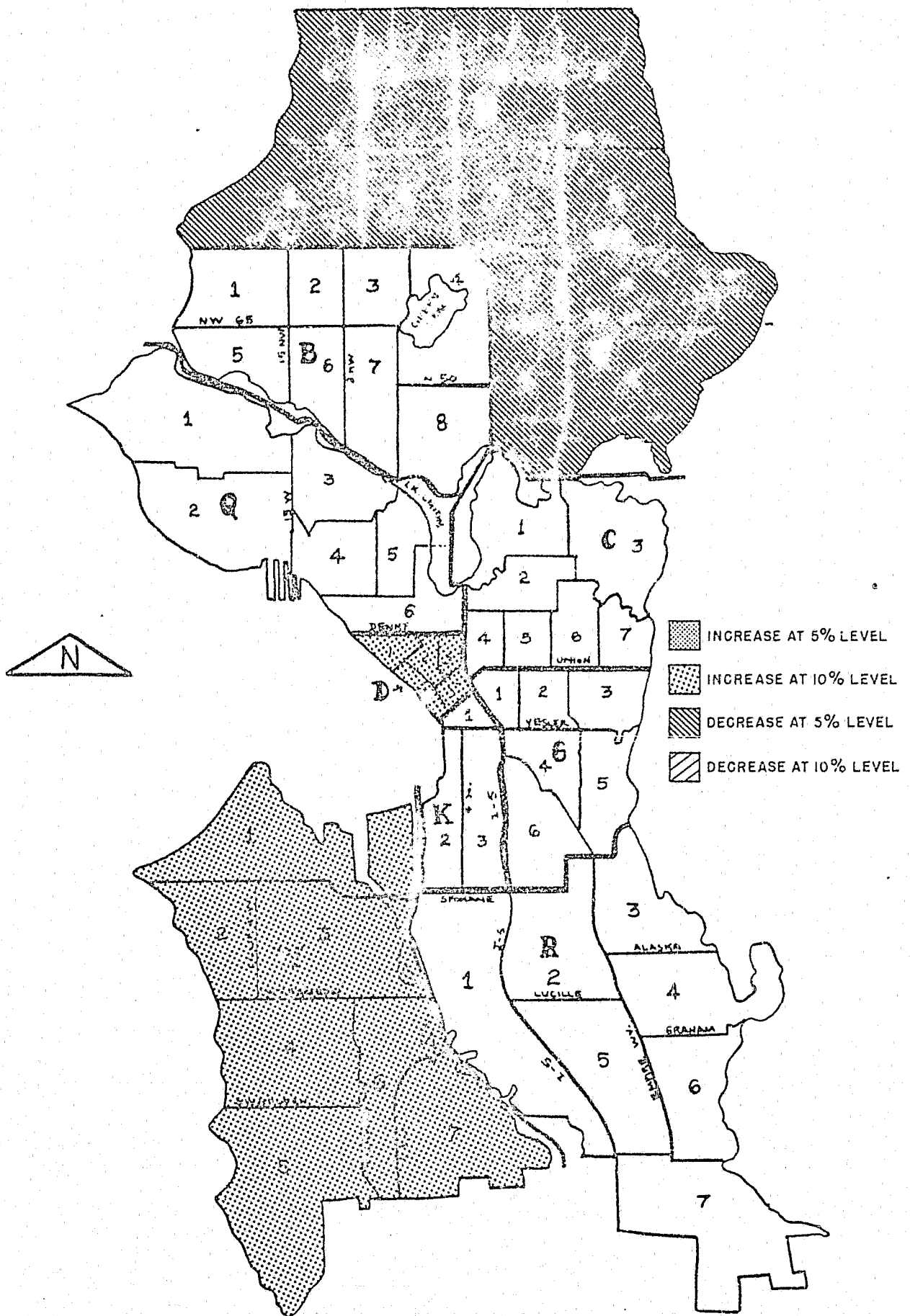
Map 8I3·1 –   Wilcoxon Test of Clearance (1) & (3) – Reported Total
Burglaries – All Sectors (refer to Table 8I3·1)

Map 8I3·2 – Wilcoxon Test of Clearance (1) & (3) – Reported Residential Burglaries – All Sectors (refer to Table 8I3·2)
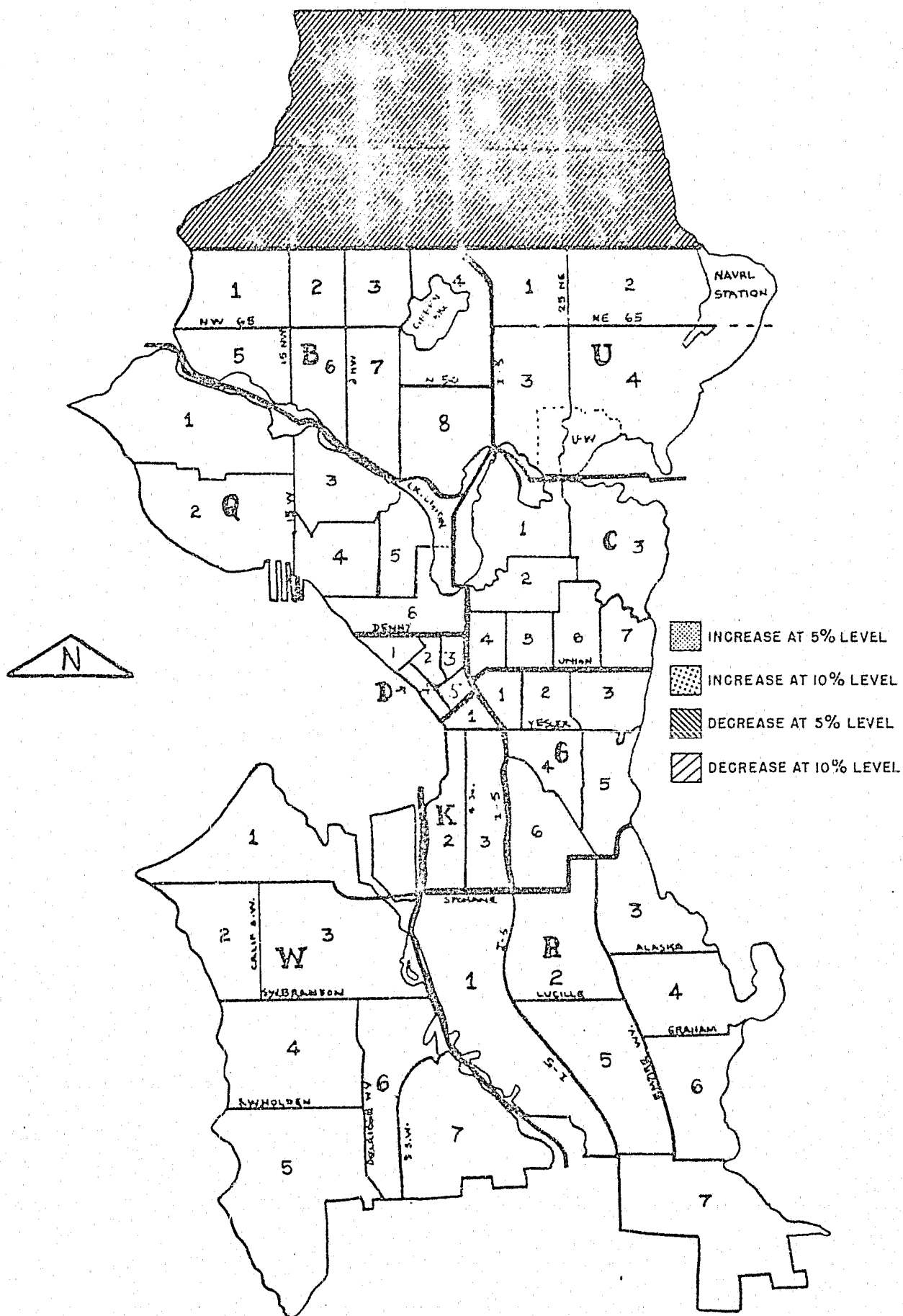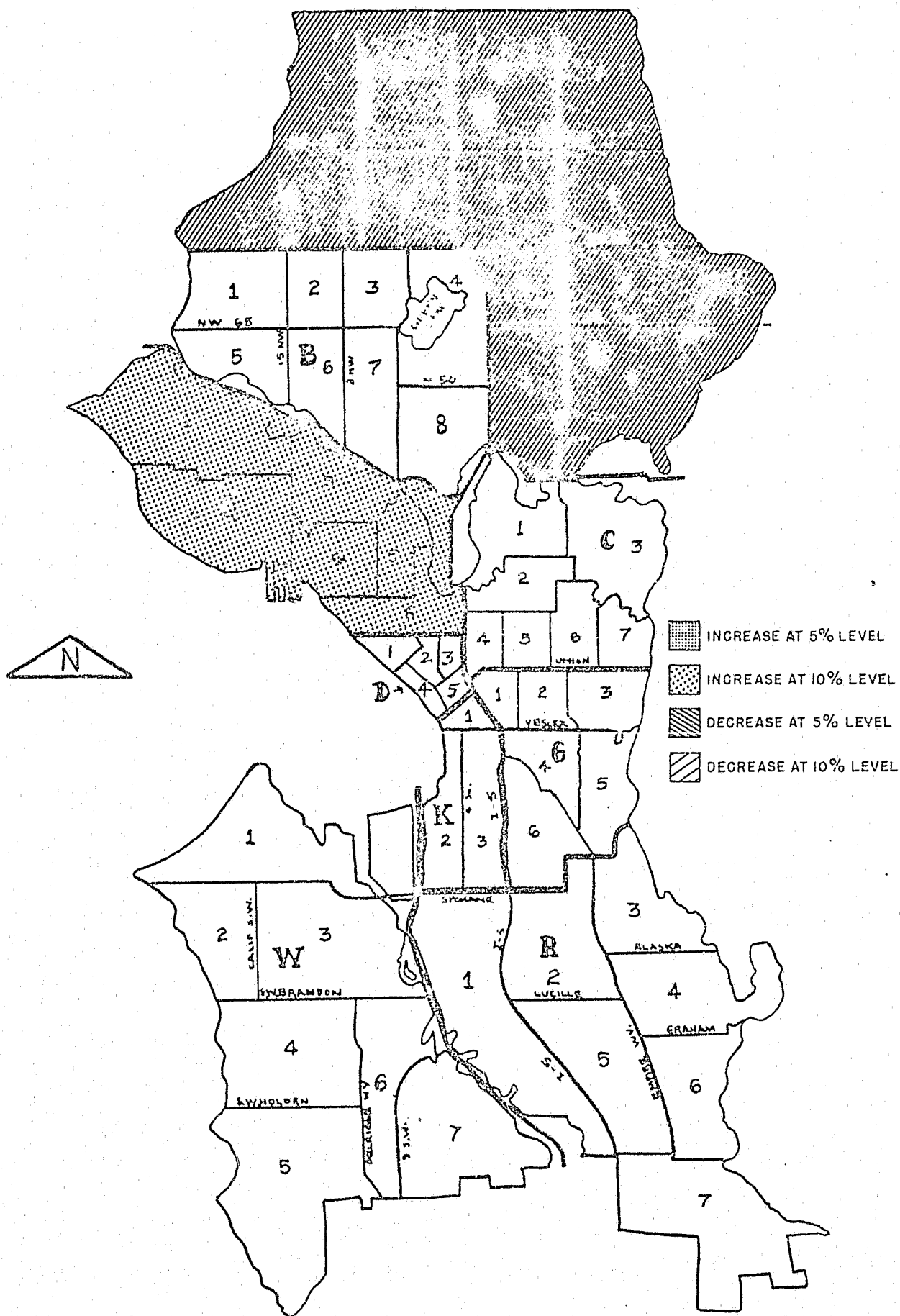
Map 8I3·3 –   Wilcoxon Test of Clearance (1) & (3) – Reported Nonresidential
Burglaries – All Sectors (refer to Table 8I3·3)

Map 8I4·1 – Wilcoxon Test of Clearance (2) & (4) – Reported Total Burglaries – All Sectors (refer to Table 8I4·1)

Map 8I4·2 – Wilcoxon Test of Clearance (2) & (4) – Reported Residential
Burglaries – All Sectors (refer to Table 8I4·2)

IX. ANALYSES OF REPORTED BURGLARIES BY CENSUS TRACTS

The same Wilcoxon Tests of Numbers of Reported Burglaries and the relative

ratios in census tracts - 090, 091, 092, 100, 101, 110, 111, 112 were

studied. 091 and 092 are the two areas that the civilian group spent

their efforts extensively. Similar summary tables and maps are presented

for various studies.

It is difficult, if not impossible, to draw any definite conclusion concerning

the effect of the civilian effort in reducing burglary with the existing data.

The difficulty is due to the fact that the original design of the study did

not follow the statistical principles of experimental design. The design

should have, at least, the following four combinations:

1.   At least two car beats with both police and civilian effort.

2.   At least two car beats with only police effort.

3.   At least two car beats with only civilian work.

4.   At least two car beats with neither police nor civilian work to
      serve as control units.

This simple factorial two by two design should provide some basis to

separate and to combine the effect of the police and the civilian effort.

Since the existing data was not collected according to the design suggested

above, the data is analyzed with the best effort that can be rendered within

the limitations due to the lack of an experimental model.

First, the census tracts with civilian effort are compared with the "corresponding" police car beats in terms of the number of reported burglaries. Tract 110, with a decrease in total burglaries significant at ten percent level, is in car beat C5, whch does not show a significant decrease in total burglaries. Tract 110 and car beat C5 diverged to some degree. None of the tracts show any significant decrease in residential burglaries, nor do any "corresponding" car beats. So far as the non-residential burglaries are concerned, both Tract 090 and 101 register a decrease significant at ten percent level. Neither of them shows significant decrease; again, a divergent development. Tract 101 is in car beat C7 and G3. Both car beats also show significant decrease. It is noted that neither Tract 091 nor 092 shows anything here.

Second, the census tracts are compared with the "corresponding" car beats in terms of the ratio. With respect to the total burglaries, only two minor divergences are noted. Tract 090 registers significant decrease. A minor part of Tract 090 is in car beat C3, which does not show significant decrease. A minor part of Tract 100 is car beat C7, which does not show significant decrease while Tract 100 does. Same minor divergence occurred between Tract 100 and car beat C7 in residential ratios, and also between Tract 111 and car beat C2. A similar minor divergence shows between Tract 101 and car beat C7 with respect to nonresidential ratios. The only time either Tract 091 or Tract 092 shows up is in the nonresidential ratios. Tract 092 registers a decrease significant at five percent. However, Tract 092 is in car beat C2,

which also shows a decrease significant at five percent. Is this decrease due to the civilian effort or the police work?

It seems pertinent to suggest that the effect of the civilian work should be analyzed with respect not only to the number of reported burglaries and their ratios but also force of entry, clearance, etc., through future data.

TABLE 9·1 Wilcoxon Test Results - Census Tracts

CENSUS TRACT	NUMBER OF REPORTED BURGLARIES			RATIO OF REPORTED BURGLARIES		
	T/B	R/B	N/B	T/B	R/B	N/B
090			(-)10	(-)5		
091						
092						(-) 5
100				(-)10	(-)10	
101			(-)10			(-)10
110	(-)10			(-)5	(-)5	
111					(-)5	
112						

T/B = Reported Total Burglaries

R/B = Reported Residential Burglaries

N/B = Reported Nonresidential Burglaries

(-) = Significant decrease

(+) = Significant increase

5   = Significant difference at 5% level

10 = Significant difference at 10% level
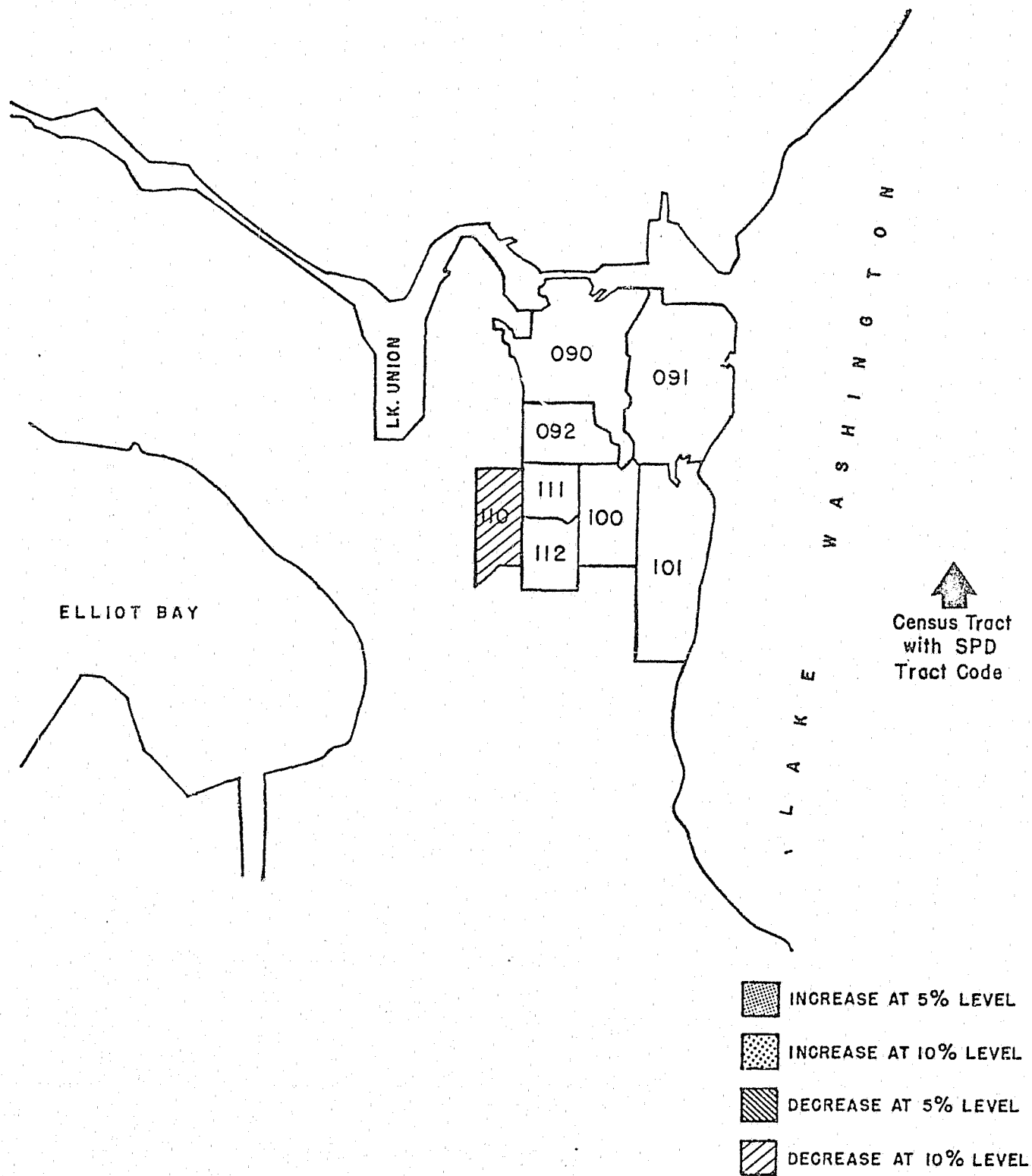
Map 9A1 -   Wilcoxon Test of Number of Reported Total Burglaries -
Census Tract (refer to Table 9A1)
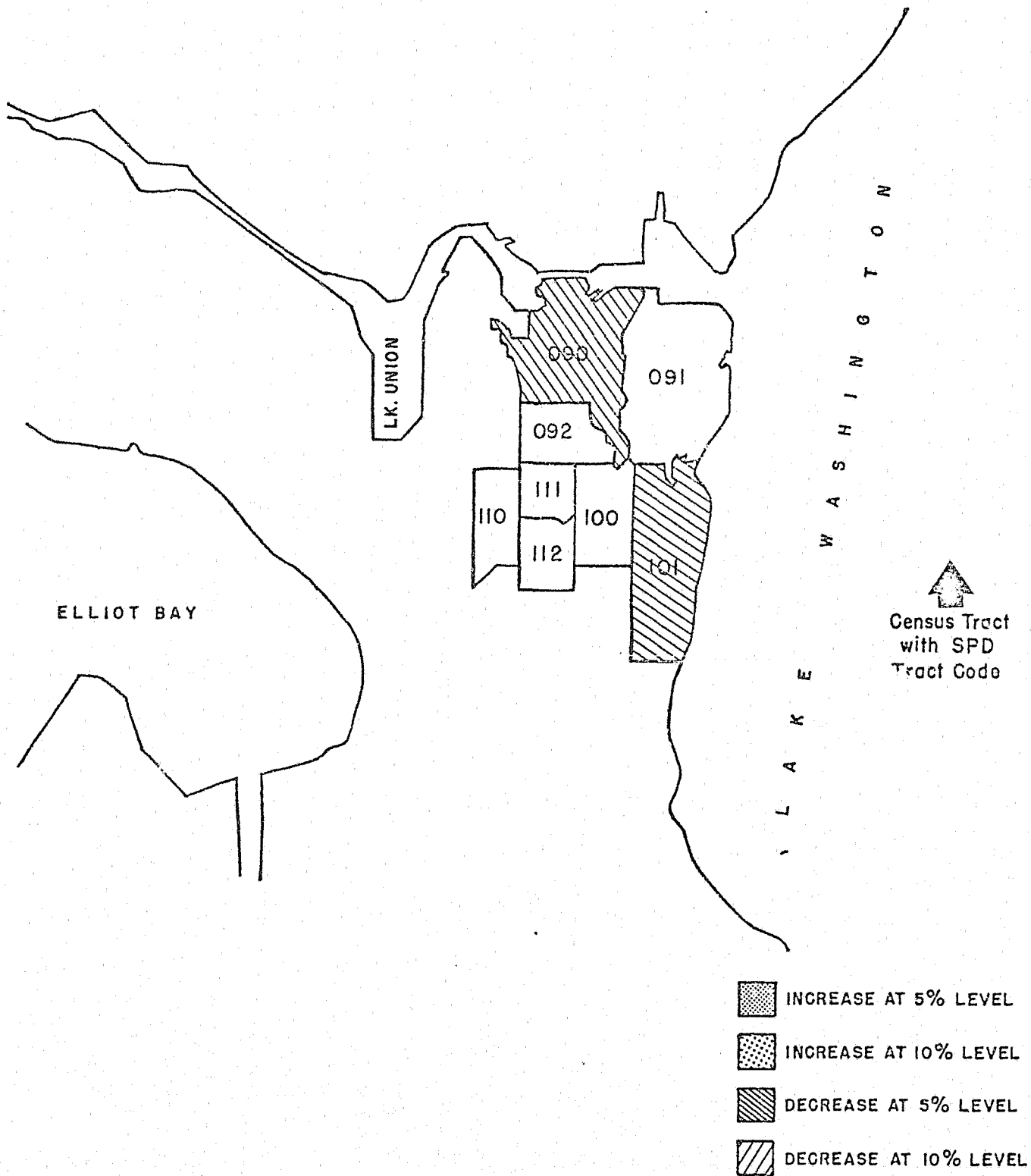
Map 9A3 –   Wilcoxon Test of Number of Reported Nonresidential
Burglaries – Census Tracts (refer to Table 9A3)

LK. UNION

ELLIOT BAY

WASHINGTON

LAKE

091

092

111

106

112

101

⬆
Census Tract
with SPD
Tract Code

▓ INCREASE AT 5% LEVEL

▒ INCREASE AT 10% LEVEL

▨ DECREASE AT 5% LEVEL

▨ DECREASE AT 10% LEVEL

Map 9B1 –   Wilcoxon Test of Ratio of Reported Total Burglaries –
Census Tract (refer to Table 9B1)

LK. UNION

090

091

092

100

112

101

ELLIOT BAY

LAKE WASHINGTON

Census Tract
with SPD
Tract Code

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 9B2 –   Wilcoxon Test of Ratio of Number of Reported Residential
Burglaries – Census Tract (refer to Table 9B2)

LK. UNION

WASHINGTON

LAKE

090

091

111

110   100

112

101

ELLIOT BAY

Census Tract
with SPD
Tract Code

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 9B3 -   Wilcoxon Test of Ratio of Number of Reported Nonresidential
Burglaries - Census Tract (refer to Table 9B3)

X. STUDY OF OTHER PART I PROPERTY RELATED CRIMES TO BURGLARY

The studies of other Part I, property related crimes, were basically limited to the following types of crimes: robbery, personal larceny, shoplift, car prowl, auto accessories theft, bicycle larceny, building larceny, coin operated machine larceny, miscellaneous larceny and auto theft. Not only the Wilcoxon Tests but also the plots of the ratio, which is the ratio of the crime volume of each category to the number of reported burglaries for the same period, were prepared. The summary table of the Wilcoxon Test of the ratio is included here, however, only one plot for the robbery to burglary ratio is presented. All the other plots are available in the file.

The question addressed is: Was crime displaced from Burglary to other property crime? An increase in the ratio could result from: (a) a decrease in burglary, or (b) an increase in the other crime, or (c) both.

Also there are computer curves of those ratios for each sector and each car beat plotted (see Figure 10·1). The plots are the ratio vs. the time period. As it is shown in the plot, it is not line (continuous) plot. Therefore, the resolution is not good. If there are several dots forming a straight line at one time in the plot, the high test point should always be the proper reading. In this report, only one sample plot is included. All the other plots are available in the grant file.

Overall, these data do not demonstrate displacement by crime type.

The only outstanding significant change among the ten ratios of various Part I offenses to burglaries (see table 10·1) is that five ratios for Sector W, out of the ten, have a significant decrease. It is due to the surge in burglaries in Sector W which dwarfs all other Part I offenses and hence, the ratios decrease significantly. It is also noted that the ratio of robbery to burglary increases significantly in Sector C.

TABLE 10·1 Wilcoxon Test Results – Summary Table

SECTOR	ROBBERY / BURGLARY	PERSONAL LARCENY / BURGLARY	SHOPLIFT / BURGLARY	CAR PROWL / BURGLARY	AUTO ACCESSORIES / BURGLARY	BICYCLE LARCENY / BURGLARY	BUILDING LARCENY / BURGLARY	COIN OPERATED MACHINE LARCENY / BURGLARY	MISCELLANEOUS LARCENY / BURGLARY	AUTO THEFT / BURGLARY
B			(+)5						(−)10	
C	(+)5						(+)5			
G										
D			(−)5	(−)5				(−)5		
Q	(+)10		(+)5				(+)10	(−)10		
U			(+)5							
K				(−)5						
W	(−)5					(−)5		(−)10	(−)5	(−)10
R										
N			(−)5							

(+) = Significant increase

(−) = Significant decrease

5 = Significant difference at 5% level

10 = Significant difference at 10% level

ROBBERY/BURGLARY vs TIME IN MONTHS

TIME (24.5,13.85)——VERSUS 50 (.1006,.05°83)—— 48 VALUES

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 10A - Wilcoxon Test of $\frac{\text{Robbery}}{\text{Burglary}}$ - All Sectors (refer to Table 10A)

Map 10C -   Wilcoxon Test of Reported $\dfrac{\text{Total Number of Shoplift}}{\text{Total Number of Burglaries}}$

All Sectors (refer to Table 10C)

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL
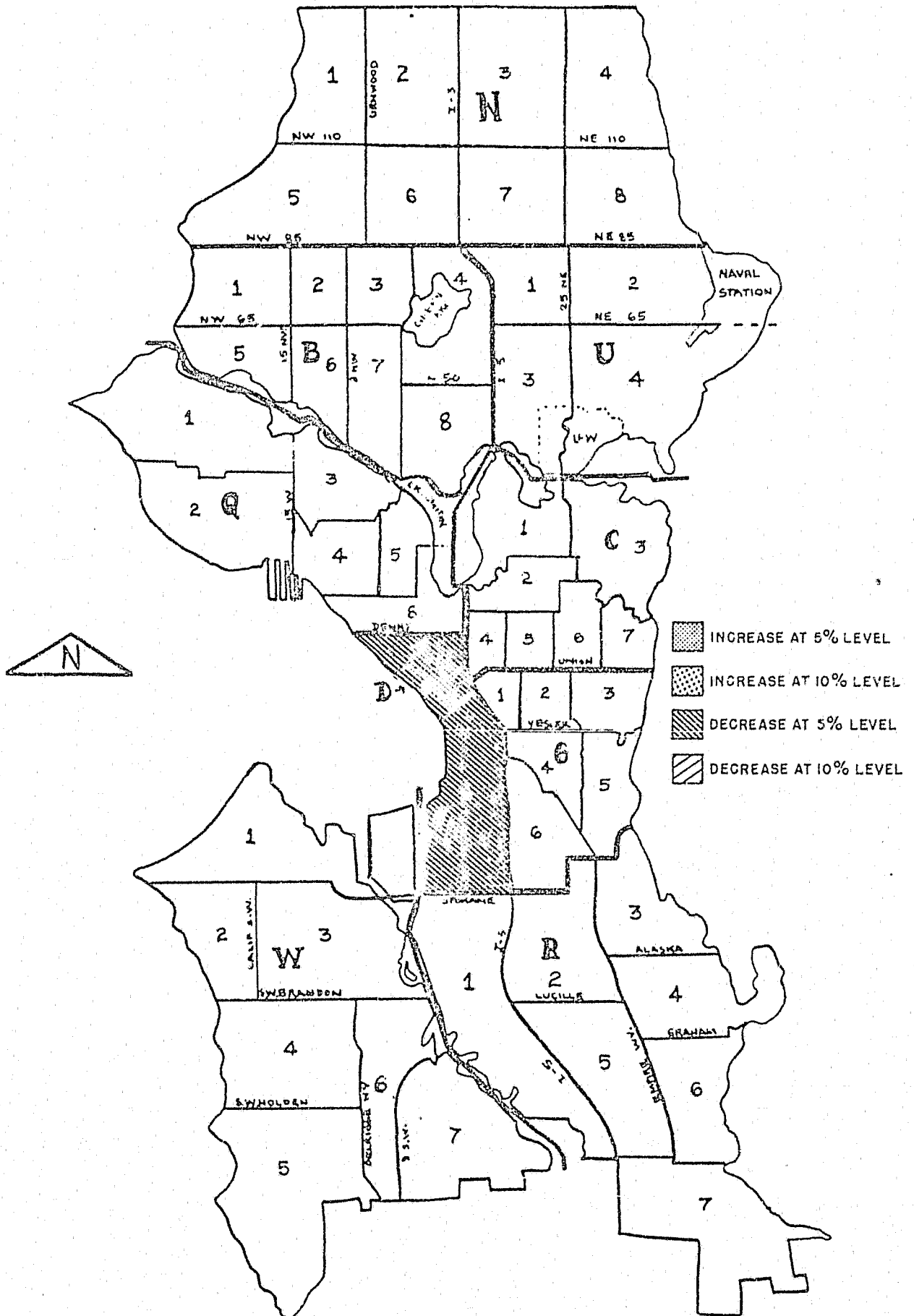
Map 10D – Wilcoxon Test of $\dfrac{\text{Car Prowl}}{\text{Burglary}}$ – All Sectors (refer to Table 10D)

Map 10E -   Wilcoxon Test of $\dfrac{\text{Auto Accessories}}{\text{Burglary}}$ - All Sectors

(refer to Table 10E)

Map 10F - Wilcoxon Test of $\frac{\text{Bicycle Larceny}}{\text{Burglary}}$ - All Sectors

(refer to Table 10F)

Map 10G – Wilcoxon Test of $\dfrac{\text{Total Building Larceny}}{\text{Total Burglary}}$ – All Sectors

(refer to Table 10G)

178

N

NW 110
GRNWOOD
NW 95
NW 65
NE 110
NE 85
NE 65
NAVAL STATION

B

15 NW
NW

U

CITY PK

I-W

C

D

UNION

YESLER

K

STEPHANIE

R

ALASKA
LUCILLE
GRAHAM

S-W

T.W.HOLDEN
F.W.HOLDEN

N

INCREASE AT 5% LEVEL
INCREASE AT 10% LEVEL
DECREASE AT 5% LEVEL
DECREASE AT 10% LEVEL

Map 10H -   Wilcoxon Test of Coin Operated Machine Larceny
Total Burglary
All Sectors (refer to Table 10H)

1 2 3 4

GREENWOOD N

NW 110 NE 110

5 6 7 8

NW 85 NE 85

NAVAL
STATION

1 2

25 NE

NE 65

3 4 U

1 Q

3

LK WN

2 Q

15 W

4 5

6

DENNY

1 2 3

D 5

1

C 3

2

4 5 6 7

UNION

1 2 3

YESLER

4 6

5

K

2 3

6

SPOKANE

3

ALASKA

R

1 2

LUCILLE

4

GRAHAM

5

6

7

N

INCREASE AT 5% LEVEL

INCREASE AT 10% LEVEL

DECREASE AT 5% LEVEL

DECREASE AT 10% LEVEL

Map 10I –   Wilcoxon Test of $\dfrac{\text{Total Miscellaneous Larceny}}{\text{Total Burglary}}$ – All Sectors

(refer to Table 10I)

Map 10J - Wilcoxon Test of $\frac{\text{Total Auto Theft}}{\text{Total Burglary}}$ - All Sectors

(refer to Table 10J)

XI. CONCLUSIONS AND RECOMMENDATIONS

As mentioned in Chapter II, one of the objectives is to get a 10% reduction in the number of burglaries committed in the test sectors. As we discussed in Chapter V, Section B, the project has achieved the first objective. However, as far as the second objective is concerned, which is to get a 10% increase in burglary case clearance in the test sectors, it is very hard to draw statistical conclusions in this report at this time because further study is required. For example, a study of percentage of clearances per crime committed is another way to examine it.

In spite of the amount of effort spent in this study and the volume of data collected for it, there are still limitations to what can be concluded from it. The test period is only one year which is relatively short from a research and statistics point of view. The statistical design of the study poses some questions which are discussed in Chapter IX. The data is restricted to reported burglaries. With due regard to these limitations, the study does seem to yield some interesting results. The effort to reduce burglaries in the relative sense seems to have produced some positive effects; however, they vary between the sectors as well as the car beats. The time series forecasts show the nature of the various burglary series differ from one another, even though all of them are dominated by random disturbance. The forecasting technique needs further study to ascertain its credibility.

Up to this point, most of the comments and analysis have been "statistical"
or management oriented as opposed to "operational" or lower level. While
the Patrol Bureau participant's point of view is admittedly limited, his
observations from that level might provide some interesting insight to
the "total" grant operation.

From his point of view the immediate success, or product, of the grant
was somewhat obscure. There are numerous reasons given for this lack
of impact and they will vary depending upon who is asked and what role
they played in the grant structure. While the negative comments ran the
full spectrum of "it's a waste of the taxpayer's money" and "it'll never
work," to "management will not support it," the most often heard complaint
was lack of time. Even from this "lower," or "operational" level, there
was insufficient time for planning, developing and training the teams,
implementing the various tactics, and evaluating any successes.
Additionally, some of the "incentive-generating" aspects, as well as
some of the novel and exciting tactical ideas which were initially
utilized to create enthusiasm among the patrol force, were delayed or
omitted entirely. These delays and/or omissions were sometimes the
fault of administrative short-sightedness and sometimes the result of
situations over which the grant managers had no control. Regardless
of the cause, the ultimate result was often a lack of cooperation and
enthusiasm among the officers themselves and with their citizen
counterparts.

It would, however, be complete negligence to overlook some of the extremely positive aspects of the grant and the after effects caused directly or indirectly by the grant and the people involved. It is, most certainly, difficult to evaluate individual contributions, but the general consensus was that the grant had some positive impact on the patrolman's life.

Two of the test sectors, Charlie and George, are located in Seattle's "Central Area." In the past, there have been numerous problems which have arisen between the people who live in this area and the police officers who work there. Generally speaking, it is safe to say that a serious communication break-down existed. However, since the grant was implemented and the attendant publicity and "person-to-person" situations, some of the tensions have been relieved and, on the surface at least, general relationships have improved. Admittedly a significant portion of this improvement is the professionalization of the department and the on-going efforts to improve overall cummunity relations. However, many officers have remarked that the attempts to assist the community by both the police officers and their civilian counterparts have had a positive and residual effect.

Another area worthy of mention, perhaps the most important from the patrol supervisor's point of view, is the imaginative and novel techniques developed by the officers when given the support and latitude to attack problems on their own. As an illustration, one of the most often resisted

and unpopular subjects in this department has been the suggestion that
we increase the use of one-man patrol cars. This subject has been
virtually "tabu" within the patrolman ranks! When a particular burglary
problem developed along the shoreline apartments in the George Sector,
the Sector Sergeant told his men to come up with some means of appre-
hending the suspects as conventional methods were proving ineffective.
The first suggestion (which was unanimously agreed upon by the men) was
that the traditional car beats within the Sector be redrawn to provide
coverage by three two-man cars instead of six which would permit the
remaining six officers to saturate the target area ----- in one man cars!!!
This suggestion came from the men, was approved by their sergeant and
lieutenant and resulted in the arrest of the suspect!

Another illustration involving both the George and Charlie Sectors came
about when Seattle's Madrona district was being terrorized by a series
of rape-burglaries. The suspect was obviously familiar with the area
and his victims and seemed to operate comfortably within the existing
(and conventional) patrol structure. The two Sector Sergeants on one
watch and their combined squads (thirty men in all) tried many different
combinations of tried-and-true methods, all to no avail. Once again,
with backing guaranteed by their supervisors, the men themselves
identified all the problems they were facing and listed alternatives
which were available. They finally decided to implement a plain-clothes
patrol employing bicycles for silence and mobility. Within a month, the

suspect had been apprehended and has subsequently pled guilty to more than a dozen felony charges related to these burglaries.

There are many comments from individual patrol officers which are relevant and interesting but time and space precludes their addition here. Suffice to say that the operational portion of the grant which permitted lower levels of the department structure to participate in the decision and planning processes gave many patrol supervisors a first-time look at a frequently overlooked resource.

We feel a second study drawing on the experiences (and eliminating the mistakes) of this one could be quite fruitful in advancing the general body of knowledge. Detailed study of these data and maps should lead to both improved experimental design and a better evaluation methodology.

APPENDIX I

Conversion Formulas of Census Tract to Car Beats

B = B1+B2+B3+B4+B5+B6+B7+B8
B1 = (1)+ .33(2)+ .25(3)+ .20(4)*
B2 = .67(2)+ .25(3)+ .5(10)+ .1(13)
B3 = .5(10)+(11)+ .25(12)+ .1(13)
B4 = .67(20)+ .8(21)+(22)+ .67(23)
B5 = .25(3)+ .8(4)+ .5(5)
B6 = .25(3)+ .5(5)+ .4(13)+ .5(14)
B7 = .75(12)+ .4(13)+ .5(14)+(15)
B8 = (50)+(51)+ .625(52)+(53)

C = C1+C2+C3+C4+C5+C6+C7
C1 = (80)+ .4(81)+(82)+ .8(90)
C2 = .6(81)+ .7(92)+ .1(110)+ .2(111)+ .15(123)
C3 = .2(90)+(91)+ .2(92)+ .05(101)
C4 = .6(123)+ .125(132)+ .6(133)
C5 = .9(110)+ .4(111)+ .375(112)
C6 = .1(92)+ .67(100)+ .4(111)+ .375(112)
C7 = .33(100)+ .45(101)

D = D1+D2+D3+D4+D5
D1 = .167(121)+ .6(124)
D2 = .33(121)+ .1(124)+ .833(130)
D3 = .33(122)+ .33(131)+ .25(132)
D4 = .3(124)+ .25(130)
D5 = .167(130)+ .167(131)

Q = Q1+Q2+Q3+Q4+Q5+Q6
Q1 = .125(60)+ .33(61)+ .75(62)
Q2 = .875(60)+ .5(61)+ .25(62)
Q3 = (70)+ .67(71)
Q4 = .167(61)+ .5(73)+(74)+ .5(75)
Q6 = .25(72)+(120)+ .5(121)+ .67(122)+ .25(123)+(999)

U = U1+U2+U3+U4
U1 = .33(20)+ .1(21)+(30)+ .5(36)+(38)
U2 = .5(36)+(37)+(39)+(40)+(41)+ .25(207)
U3 = .1(21)+ .33(23)+(31)+ .5(32)+ .67(35)+ .375(52)
U4 = .5(32)+(33)+(34)+ .33(35)

* ( ) indicates census tract area

$$G = G1+G2+G3+G4+G5+G6$$
$$G1 = .5(113)+.25(131)+.625(132)+.4(133)+.875(134)$$
$$G2 = .25(112)+.5(113)+(114)$$
$$G3 = .5(101)+(102)$$
$$G4 = .5(151)+(160)+.33(161)+.33(170)+.07(171)$$
$$G5 = .67(170)+.6(171)$$
$$G6 = .167(152)+.67(161)+.5(162)$$

$$K = K1+K2+K3$$
$$K1 = .5(130)+.25(131)+.125(134)$$
$$K2 = .67(150)+.27(152)$$
$$K3 = .33(150)+.5(151)+.133(152)$$

$$W = W1+W2+W3+W4+W5+W6+W7$$
$$W1 = (140)+.33(141)+.33(142)+.1(153)$$
$$W2 = .167(141)+.67(142)+.33(143)+.1(190)$$
$$W3 = .5(141)+.5(143)+.9(153)+.2(154)$$
$$W4 = .167(143)+.9(190)+.33(192)+(193)+.167(195)$$
$$W5 = .67(192)+.75(194)+.833(195)+(705)+(706)$$
$$W6 = .8(154)+.33(191)+.25(194)$$
$$W7 = (188)+.67(191)$$

$$R = R1+R2+R3+R4+R5+R6+R7$$
$$R1 = .233(152)+(180)$$
$$R2 = .2(152)+.5(162)+.5(181)$$
$$R3 = .33(171)+(172)$$
$$R4 = (182)+(185)$$
$$R5 = .5(181)+(183)+.33(184)$$
$$R6 = (186)+.5(187)$$
$$R7 = .67(184)+.5(187)+(189)$$

$$N = N1+N2+N3+N4+N5+N6+N7+N8$$
$$N1 = .25(200)+.2(409)+(408)$$
$$N2 = .125(200)+.125(307)+.6(308)+(406)+.8(409)$$
$$N3 = .8(300)+.5(304)+.25(307)+.3(308)$$
$$N4 = .2(300)+(301)+.5(302)+.67(303)+.5(304)+.33(305)$$
$$N5 = .5(200)+(201)+(202)+.75(203)$$
$$N6 = .125(200)+.25(203)+(204)+.25(205)+.125(307)+.1(308)+(309)$$
$$N7 = .75(205)+.25(206)+(209)+(306)+.5(307)$$
$$N8 = .75(206)+.75(207)+.5(302)+.33(303)+.67(305)$$

APPENDIX II

List of the Content of the Third Magnetic Tape

CLASSIFICATION	YEARS COVERED	NUMBER OF CARDS***
* Robbery	1969-1974**	18,018
* Pickpocket/ Pursesnatch/ Theft from Person	1969-1974**	6,507
* Shoplift	1972-1974**	11,011
* Car Prowl	1972-1974**	15,229
* Theft of Auto Accessories	1972-1974**	8,651
Bicycle Larceny	1970-1974**	9,795
* Larceny from Building	1972-1974**	17,446
Larceny from Coin-Operated Machine	1972-1974**	858
* Miscellaneous Larceny	1972-1974**	4,504
* Auto Theft	1972-1974**	13,442
Negligent Manslaughter	1952-1974**	1,144
* Rape	1968-1974**	1,859
Aggravated Assault	1969-1974**	5,791
Non-Aggravated Assault	1972-1974**	8,008
Carnal Knowledge/ Sodomy/ Incest/ Indecent Liberties/ Indecent Exposure	1969-1974**	3,146
Homicide	1950-1974**	987

* Indicates that more than one card may exist for each case number
** Through July 1974
*** Estimated

APPENDIX III

List of Programs on the Computer Tape

1. Burglary Update

2. Burglary Raw Data List for Census Tract and Car Beat

3. Burglary Raw Data Conversion (from Census Tract to Car Beat)

4. Burglary Raw Data List for Car Beat Only

5. Ratio I: Area/CWT*

6. Ratio II: Area/(CWT - Area)

7. Ratio III: (1) Ratio III = Area/(CWT - B - C - G), if area is B or C or G

   (2) Ratio IV = Area/(CWT - B - C - G - Area), if area is not B and C and G

8. Ratio IV, i.e., Residential Burglary/Total Burglary and Non-residential Burglary/Total Burglary

9. Wilcoxon Test on Ratio III Through August 1974

10. Wilcoxon Test on Raw Car Beat Data Through August 1974

11. Wilcoxon Test on Raw Census Tract Data Through July 1974

12. Test Area/(CWT - Test Area) and Wilcoxon on the Ratio Through July 1974

13. Test Area Raw Data and Non-test Area Raw Data and Wilcoxon Test on Them Through July 1974

14. Premise Update

15. Money Stolen and Money Recovered Update

*CWT = City-wide

16. Average Money Stolen and
    Average Money Recovered

17. Wilcoxon on Average Stolen Money
    Wilcoxon on Average Recovered Money

18. Presort for Cleared Cards

19. Cleared Update

20. Cleared Combinations

21. Presort for Force of Entry Cards

22. Force of Entry Update

23. Ratios for Other Offense Crime/Burglary

24. Wilcoxon Test on the Ratios

25. Plotting the Ratios

26. Plotting Raw Data from Non-burglary Offense

A. Analyses of the Numbers of Reported Burglaries
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

B. Analyses of the Relative Ratios of Reported Burglaries
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

C. Analyses of Premises
    1. Houses
    2. Apartments
    3. Others

D. Analyses of Force of Entry
    1. Major Force
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    2. Minor Force
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    3. No Force
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries

E. Analyses of Average Stolen Value
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

F. Analyses of Average Recovered Value
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

G. Analyses of Recovered to Stolen Values Ratio
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

H. Analyses of Clearance (1), (2), (3), (4)
   1. Clearance (1)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   2. Clearance (2)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   3. Clearance (3)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   4. Clearance (4)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries

I. Analyses of Combination of Clearance
   1. Clearance (1) and (2)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   2. Clearance (3) and (4)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   3. Clearance (1) and (3)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   4. Clearance (2) and (4)
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries

A.   Analyses of the Numbers of Reported Burglaries

*7A1·1   Wilcoxon Test of the Number of Reported Total Burglaries
           of Each Carbeat in Sector B.

7A1·2   Wilcoxon Test of the Number of Reported Total Burglaries
           of Each Carbeat in Sector C.

7A1·3   Wilcoxon Test of the Number of Reported Total Burglaries
           of Each Carbeat in Sector G.

7A2·1   Wilcoxon Test of the Number of Reported Residential
           Burglaries by Carbeat in Sector B.

7A2·2   Wilcoxon Test of the Number of Reported Residential
           Burglaries by Carbeat in Sector C.

7A2·3   Wilcoxon Test of the Number of Reported Residential
           Burglaries by Carbeat in Sector G.

7A3·1   Wilcoxon Test of the Number of Reported Nonresidential
           Burglaries by Carbeat in Sector B.

7A3·2   Wilcoxon Test of the Number of Reported Nonresidential
           Burglaries by Carbeat in Sector C.

7A3.3   Wilcoxon Test of the Number of Reported Nonresidential
           Burglaries by Carbeat in Sector G.

*Use this number system to match the maps in the proper
chapter and section.

TABLE 7A1·1

Wilcoxon Test of the Number of Reported Total Burglaries of Each Carbeat in Sector

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
B1	0	−49	29		
B2	0	−67	11	5	Significant increase
B3	0	−55	23		
B4	0	−49	29		
B5	0	−59	19		
B6	0	−44.5	33.5		
B7	0	−21.5	56.5		The only carbeat in the sector showing more decrease than increase
B8	0	−57	21		
sector	0	−55	23		

TABLE 7A1·2

Wilcoxon Test of the Number of Reported Total Burglaries of Each Carbeat in Sector C

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	0	−49	29		
C2	0	−43	35		
C3	0	−36	42		
C4	0	−30	48		
C5	0	−21	57		
C6	0	−30	48		
C7	1	−30	36		
sec- tor	0	−29	49		

TABLE 7A1·3

Wilcoxon Test of the Number of Reported Total Burglaries of Each Carbeat in Sector G

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−59.5	18.5		
G2	0	−33.5	44.5		The only carbeat in the Sector showing more decrease than increase
G3	0	−46	32		
G4	0	−72	6	5	Significant increase
G5	0	−63	15	10	Significant increase
G6	0	−51	27		
sec- tor	0	−67	11	5	Significant increase

TABLE 7A2·1

Wilcoxon Test of the Number of Reported Residential Burglaries by Carbeat in Sector B

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	0	−54	24		
B2	0	−75	3	5	Significant increase
B3	0	−54.5	23.5		
B4	0	−65	13	5	Significant increase
B5	0	−73	5	5	Significant increase
B6	0	−49	29		
B7	0	−13	65	5	The only carbeat showing significant decrease
B8	0	−65	13	5	Significant increase
sec-tor	0	−60	18		

TABLE 7A2·2

Wilcoxon Test of the Number of Reported Residential Burglaries by Carbeat in Sector C

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	0	−50	28		
C2	0	−51	27		
C3	0	−34	44		
C4	0	−24	54		
C5	0	−25	53		
C6	0	−34	44		
C7	0	−40	38		
sec-tor	0	−31	47		

TABLE 7A2·3

Wilcoxon Test of the Number of Reported Residential Burglaries by Carbeat in Sector G

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	-58	20		
G2	0	-30	48		The only carbeat in the sector showing more decrease than increase
G3	1	-48.5	17.5		
G4	0	-75	3	5	Significant increase
G5	0	-57	21		
G6	0	-53	25		
sec- tor	0	-59	19		

TABLE 7A3.1

Wilcoxon Test of the Number of Reported Non-Residential Burglaries by Carbeat in Sector B

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	0	-26	52		
B2	2	-27.5	27.5		
B3	0	-36.5	41.5		
B4	0	-31	47		
B5	0	-29	49		
B6	1	-17	49		
B7	0	-48	30		
B8	1	-30	36		
sec-tor	0	-29	49		

TABLE 7A3.2

Wilcoxon Test of the Number of Reported Non-Residential Burglaries by Carbeat in Sector C

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	0	−39	39		
C2	0	−10	68	5	Significant decrease
C3	0	−29.5	48.5		
C4	0	−53.5	24.5		
C5	0	−31	47		
C6	0	−29	49		
C7	0	−15	63	10	Significant decrease
sec- tor	0	−26	52		

TABLE 7A3·3

Wilcoxon Test of the Number of Reported Non-Residential Burglaries by Carbeat in Sector G

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−50	28		
G2	1	−35	31		
G3	0	−19	59	20	The only carbeat with decrease
G4	0	−55	23		
G5	0	−63	15	10	Significant increase
G6	0	−43	35		
sec-tor	0	−52	26		

B.   Analyses of the Relative Ratios of Reported Burglaries

7B1·1   Wilcoxon Test of the Ratio of Reported Total Burglaries of
Each Carbeat in Sector B to that of the Rest of the City Excluding
Testing Sectors.

7B1·2   Wilcoxon Test of the Ratio of Reported Total Burglaries of
Each Carbeat in Sector C to that of the Rest of the City Excluding
Testing Sectors.

7B1·3   Wilcoxon Test of the Ratio of Reported Total Burglaries of
Each Carbeat in Sector G to that of the Rest of the City Excluding
Testing Sectors.

7B2·1   Wilcoxon Test of the Ratio of Reported Residential Burglaries
of Each Carbeat in Sector B to that of the Rest of the City
Excluding Testing Sectors.

7B2·2   Wilcoxon Test of the Ratio of Reported Residential Burglaries
of Each Carbeat in Sector C to that of the Rest of the City
Excluding Testing Sectors.

7B2·3   Wilcoxon Test of the Ratio of Reported Residential Burglaries
of Each Carbeat in Sector G to that of the Rest of the City
Excluding Testing Sectors.

7B3·1   Wilcoxon Test of the Ratio of Reported Nonresidential
Burglaries of Each Carbeat in Sector B to that of the Rest of
the City Excluding Testing Sectors.

7B3·2   Wilcoxon Test of the Ratio of Reported Nonresidential
Burglaries of Each Carbeat in Sector C to that of the Rest of
the City Excluding Testing Sectors.

7B3·3   Wilcoxon Test of the Ratio of Reported Nonresidential
Burglaries of Each Carbeat in Sector G to that of the Rest of
the City Excluding Testing Sectors.

TABLE 7B1·1

Wilcoxon Test of the Ratio of Reported Total Burglaries of Each Carbeat in Sector B
to That of the Rest of the City Excluding Testing Sectors

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
B1	0	−35	43		
B2	0	−55	23		The only carbeat in the Sector showing more increase than decrease
B3	0	−33	45		
B4	0	−26	52		
B5	0	−30	48		
B6	0	−19	59		
B7	0	−10	68	5	Significant decrease
B8	0	−38	40		
sector	0	−21	57		

TABLE 7B1·2

Wilcoxon Test of the Ratio of Reported Total Burglaries of Each Carbeat in Sector C to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	0	−29	49		
C2	0	−21	57		
C3	0	−22	56		
C4	0	−12	66	5	Significant decrease
C5	0	−3	75	5	Significant decrease
C6	0	−17	61	10	Significant decrease
C7	0	−24	54		
sec-tor	0	−12	66	5	Significant decrease

TABLE 7B1.3
Wilcoxon Test of the Ratio of Reported Total Burglaries of Each Carbeat in Sector G
to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	0	-37	41		
G2	0	-15	63	10	Significant decrease
G3	0	-28	50		
G4	0	-55	23		The only carbeat in the Sector showing more increase than decrease
G5	0	-33	45		
G6	0	-30	48		
sec-tor	0	-18	60		

TABLE 7B2·1

Wilcoxon Test of the Ratio of Reported Residential Burglaries in Each Carbeat of Sector B to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
B1	0	−45	33		
B2	0	−62	16	10	Significant increase
B3	0	−31	47		
B4	0	−29	49		
B5	0	−53	25		
B6	0	−32	46		
B7	0	−3	75	5	Significant decrease
B8	0	−44	34		
sector	0	−29	49		

TABLE 7B2·2

Wilcoxon Test of the Ratio of Reported Residential Burglaries in Each Carbeat of
Sector C to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	0	−17	61	10	Significant decrease
C2	0	−32	46		
C3	0	−20	58		
C4	0	−8	70	5	Significant decrease
C5	0	−1	77	5	Significant decrease
C6	0	−15	63	10	Significant decrease
C7	0	−30	48		
sec- tor	0	−7	71	5	Significant decrease

TABLE 7B2·3

Wilcoxon Test of the Ratio of Reported Residential Burglaries in Each Carbeat of
Sector G to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−28	50		
G2	0	−11	67	5	The only carbeat in the Sector showing significant decrease
G3	0	−39	39		
G4	0	−48	30		
G5	0	−19	59		
G6	0	−34	44		
sec- tor	0	−22	56		

TABLE 7B3·1

Wilcoxon Test of the Ratio of Reported Non-Residential Burglaries in Each Carbeat of Sector B to that of the Rest of the City Excluding the Testing Sector

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	0	−22	56		
B2	0	−32	46		
B3	0	−32	46		
B4	0	−20	58		
B5	0	−19	59		
B6	0	−17	61	10	Significant decrease
B7	0	−45	33		The only carbeat in the Sector showing more increase than decrease
B8	0	−25	53		
sec-tor	0	−11	67	5	Significant decrease

TABLE 7B3.2

Wilcoxon Test of the Ratio of Reported Non-Residential Burglaries in Each Carbeat in Sector C to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	0	−31	47		
C2	0	−6	72	5	Significant decrease
C3	0	−27	51		
C4	0	−50	28		The only carbeat in the Sector showing more increase than decrease
C5	0	−26	52		
C6	0	−24	54		
C7	0	−14	64	5	Significant decrease
sec-tor	0	−21	57		

TABLE 7B3·3

Wilcoxon Test of the Ratio of Reported Non-Residential Burglaries in Each Carbeat of Sector G to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	-45	33		
G2	0	-36	42		
G3	0	-19	59	20	The only carbeat in the Sector showing some percept-ible decrease
G4	0	-47	31		
G5	0	-60	18	10	Significant increase
G6	0	-30	48		
sec-tor	0	-38	40		

C.   Analyses of Premises

The tables in this section are Wilcoxon Test Results of Premises

which primarily deal with _residential_ burglaries – houses, apartments

and others.   The tables are:

7C1·1   Wilcoxon Test of House Reported Burglaries in Sector B.

7C1·2   Wilcoxon Test of House Reported Burglaries in Sector C.

7C1·3   Wilcoxon Test of House Reported Burglaries in Sector G.

7C2·1   Wilcoxon Test of Apartment Reported Burglaries in Sector B.

7C2·2   Wilcoxon Test of Apartment Reported Burglaries in Sector C.

7C2·3   Wilcoxon Test of Apartment Reported Burglaries in Sector G.

7C3·1   Wilcoxon Test of Other Reported Burglaries in Sector B.

7C3·2   Wilcoxon Test of Other Reported Burglaries in Sector C.

7C3·3   Wilcoxon Test of Other Reported Burglaries in Sector G.

TABLE 7C1·1

Wilcoxon Test of House Burglary Ratio

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	0	-24	42		
B2	0	-48	18		
B3	0	-7	59	5	Significant decrease
B4	0	-14	52		
B5	0	-26	40		
B6	0	-27	39		
B7	0	-1	65·	5	Significant decrease
B8	0	-41	25		
sec-tor	0	-16	50		

TABLE 7C1·2

Wilcoxon Test of House Burglary Ratio

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	0	−28	38		
C2	0	−43	23		
C3	0	−16	50		
C4	0	−24	42		
C5	0	−22	44		
C6	0	−18	48		
C7	0	−18	48		
sec-tor	0	−22	.44		

TABLE 7C1·3

Wilcoxon Test of House Burglary Ratio

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−21	45		
G2	0	−13	53	10	Significant decrease
G3	0	−30	36		
G4	0	−26	40		
G5	0	−20	46		
G6	0	−12	54	10	Significant decrease
sec-tor	0	−18	48·		

TABLE 7C2·1

Wilcoxon Test of Apartment Burglary Ratio

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	−46	20		
B2	0	−43	23		
B3	0	−46	20		
B4	0	−42	24		
B5	0	−45	21		
B6	0	−35	31		
B7	0	−10	56	5	Significant decrease
B8	0	−27	39		
sec-tor	0	−35	31		

TABLE 7C2·2

Wilcoxon Test of Apartment Burglary Ratio

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	0	-37	29		
C2	0	-13	53	10	Significant decrease
C3	0	-33	33		
C4	0	-29	37		
C5	0	-26	40		
C6	0	-28	38		
C7	0	-45	21		
sec- tor	0	-27	39		

TABLE 7C2·3

Wilcoxon Test of Apartment Burglary Ratio

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	0	-49	17		
G2	0	-35	31		
G3	0	-40	26		
G4	0	-54	12	10	Significant increase
G5	0	-42	24		
G6	0	-51	15		
sec- tor	0	-61	5 ·	5	Significant increase

TABLE 7C3·1

Wilcoxon Test of Other Burglary Ratios
(Motel, Hotel, the Dorms, ···etc.)

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	−31	35		
B2	0	−27	39		
B3	1	−49	6	5	Significant increase
B4	0	−32	34		
B5	0	−54	12	10	Significant increase
B6	1	−35	20		
B7	1	−38	17		
B8	0	−29	37		
sec- tor	0	−44	22		

TABLE 7C3·2

Wilcoxon Test of Other Burglary Ratios
(Motel, Hotel, the Dorms, ⋯etc.)

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	0	-3	63	5	Significant decrease
C2	0	-25	41		
C3	0	-26	40		
C4	0	-14	52	10	Significant decrease
C5	0	-26	40		
C6	0	-34	32		
C7	0	-39	27		
sec- tor	0	-10	56	5	Significant decrease

TABLE 7C3·3

Wilcoxon Test of Other Burglary Ratios
(Motel, Hotel, the Dorms, ···etc.)

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−17	49		
G2	0	−36	30		
G3	0	−43	23		
G4	0	−39	27		
G5	0	−44	22		
G6	0	−37	29		
sec-tor	0	−34	32		

D.   Analyses of Force of Entry

7D1·1·1   Wilcoxon Test of Major Force of Entry for Reported Total
Burglaries in Sector B.

7D1·1·2   Wilcoxon Test of Major Force of Entry for Reported Total
Burglaries in Sector C.

7D1·1·3   Wilcoxon Test of Major Force of Entry for Reported Total
Burglaries in Sector G.

7D1·2·1   Wilcoxon Test of Major Force of Entry for Reported
Residential Burglaries in Sector B.

7D1·2·2   Wilcoxon Test of Major Force of Entry for Reported
Residential Burglaries in Sector C.

7D1·2·3   Wilcoxon Test of Major Force of Entry for Reported
Residential Burglaries in Sector G.

. 7D1·3·1   Wilcoxon Test of Major Force of Entry for Reported
Nonresidential Burglaries in Sector B.

7D1·3·2   Wilcoxon Test of Major Force of Entry for Reported
Nonresidential Burglaries in Sector C.

7D1·3·3   Wilcoxon Test of Major Force of Entry for Reported
Nonresidential Burglaries in Sector G.

7D2·1·1   Wilcoxon Test of Minor Force of Entry for Reported
Total Burglaries in Sector B.

7D2·1·2   Wilcoxon Test of Minor Force of Entry for Reported
Total Burglaries in Sector C.

7D2·1·3   Wilcoxon Test of Minor Force of Entry for Reported
Total Burglaries in Sector G.

7D2·2·1   Wilcoxon Test of Minor Force of Entry for Reported Residential Burglaries in Sector B.

7D2·2·2   Wilcoxon Test of Minor Force of Entry for Reported Residential Burglaries in Sector C.

7D2·2·3   Wilcoxon Test of Minor Force of Entry for Reported Residential Burglaries in Sector G.

7D2·3·1   Wilcoxon Test of Minor Force of Entry for Reported Nonresidential Burglaries in Sector B.

7D2·3·2   Wilcoxon Test of Minor Force of Entry for Reported Nonresidential Burglaries in Sector C.

7D2·3·3   Wilcoxon Test of Minor Force of Entry for Reported Nonresidential Burglaries in Sector G.

7D3·1.1   Wilcoxon Test of No Force of Entry for Reported Total Burglaries in Sector B.

7D3·1·2   Wilcoxon Test of No Force of Entry for Reported Total Burglaries in Sector C.

7D3·1·3   Wilcoxon Test of No Force of Entry for Reported Total Burglaries in Sector G.

7D3·2·1   Wilcoxon Test of No Force of Entry for Reported Residential Burglaries in Sector B.

7D3·2·2   Wilcoxon Test of No Force of Entry for Reported Residential Burglaries in Sector C.

7D3·2·3   Wilcoxon Test of No Force of Entry for Reported Residential Burglaries in Sector G.

7D3·3·1   Wilcoxon Test of No Force of Entry for Reported Nonresidential Burglaries in Sector B.

7D3·3·2   Wilcoxon Test of No Force of Entry for Reported Nonresidential Burglaries in Sector C.

7D3·3·3   Wilcoxon Test of No Force of Entry for Reported Nonresidential Burglaries in Sector G.

TABLE 7D1·1·1

Wilcoxon Test of Reported Total Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	-25	41		
B2	0	-48	18		
B3	0	-10	56	5	Significant decrease
B4	0	-13	53	10	Significant decrease
B5	0	-31	35		
B6	0	-15	51		
B7	0	-14	52	10	Significant decrease
B8	0	-13	53	10	Significant decrease
sec- tor	0	-12	54	10	Significant decrease

TABLE 7D1·1·2

Wilcoxon Test of Reported Total Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	0	-38	28		The only beat with more increase than decrease
C2	0	-25	41		
C3	0	-15	51		
C4	0	-9	57	5	Significant decrease
C5	0	-13	53	10	Significant decrease
C6	0	-24	42		
C7	0	-25	41		
sec-tor	0	-20	46		

TABLE 7D1·1·3

Wilcoxon Test of Reported Total Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	0	−22	44		
G2	0	−24	42		
G3	0	−26	40		
G4	0	−41	25		
G5	0	−32	34		
G6	0	−43	23		
sec- tor	0	−30	36		

TABLE 7D1·2·1

Wilcoxon Test of Reported Residential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	0	−25	41		
B2	0	−47	19		
B3	0	− 6	60	5	Significant decrease
B4	0	−16	50		
B5	0	−34	32		
B6	0	−25	41		
B7	0	− 3	63	5	Significant decrease
B8	0	−23	43		
sec-tor	0	−12	54	10	Significant decrease

TABLE 7D1·2·2

Wilcoxon Test of Reported Residential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
C1	0	−34	32		
C2	0	−29	37		
C3	0	−13	53	10	Significant decrease
C4	0	− 7	59	5	Significant decrease
C5	0	−18	48		
C6	0	−18	48		
C7	0	−28	38		
sector	0	−20	46		

TABLE 7D1·2·3

Wilcoxon Test of Reported Residential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	0	-19	47		
G2	0	-14	52	10	Significant decrease
G3	0	-32	34		
G4	0	-58	8	5	Significant increase
G5	0	-18	48		
G6	0	-43	23		
sec- tor	0	-25	41		

TABLE 7D1·3·1

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	0	-25	41		
B2	0	-38	28		
B3	0	-36	30		
B4	0	-21	45		
B5	0	-24	42		
B6	0	-20	46		
B7	0	-40	26		
B8	0	-25	41		
sec- tor	0	-27	39		

TABLE 7D1·3·2

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	0	−22	44		
C2	0	−7	59	5	Significant decrease
C3	0	−31	35		
C4	0	−39	27		The only beat with more increase than decrease
C5	0	−21	45		
C6	0	−31	35		
C7	0	−17	49·		
sec-tor	0	−10	·56	5	Significant decrease

TABLE 7D1·3·3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	-29	37		
G2	0	-47	19		
G3	0	-18	48		
G4	0	-28	38		
G5	0	-46	20		
G6	0	-35	31		
sec-tor	0	-38	28		

TABLE 7D2·1·1

Wilcoxon Test of Reported Total Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1.	5	−11	10		
B2	4	−20	8		
B3	2	−20	25		
B4	6	−6	9		
B5	5	−13	2	10	Significant increase
B6	6	−13	2		
B7	3	−16	20·		
B8	8	−6	0		
sector	1	−36	19		

TABLE 7D2·1·2

Wilcoxon Test of Reported Total Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
C1	4	−20	8		
C2	0	−20	46		
C3	2	−27	18		
C4	0	−25	41		
C5	2	−24	21		
C6	1	−25	30		
C7	2	−21	24		
sector	0	−32	34		

TABLE 7D2·1·3

Wilcoxon Test of Reported Total Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−50	16		
G2	1	−33	22		
G3	2	−21	24		
G4	1	−38	17		
G5	6	−14	1		
G6	2	−21	24		
sec-tor	0	−50	16		

TABLE 7D2.2.1

Wilcoxon Test of Reported Residential Burglary Ration with Minor Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1	6	−9	6		
B2	6	−7	8		
B3	3	−14	22		
B4	7	−6	4		
B5	8	−3	3		
B6	7	−6	4		
B7	3	−16	20		
B8	8	−5	1		
sector	1	−28	27		

TABLE 7D2·2·2

Wilcoxon Test of Reported Residential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	4	−18	10		
C2	1	−15	40		
C3	3	−18	18		
C4	1	−13	42		
C5	2	−22	23		
C6	1	−26	29		
C7	3	−22	14		
sec- tor	0	−28	38		

TABLE 7D2·2·3

Wilcoxon Test of Reported Residential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	0	-38	28		
G2	2	-25	20		
G3	3	-16	20		
G4	5	-14	7		
G5	9	-2	1		
G6	3	-16	20		
sec- tor	0	-37	29		

TABLE 7D2·3·1

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	7	−6	4		
B2	8	−6	0		
B3	9	−2	1		
B4	10	0	1		
B5	5	−15	6		
B6	7	−10	0		
B7	8	−1	5		
B8	10	−1	0		
sec- tor	4	−19	9		

TABLE 7D2·3·2

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
C1	10	−1	0		
C2	7	−10	0		
C3	9	−2	1		
C4	5	−12	9		
C5	9	−3	0		
C6	11	0	0		
C7	10	0	1		
sector	1	−42	13		

TABLE 7D2.3.3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	4	-25	3	.10	Significant increase
G2	8	-6	0		
G3	9	0	3		
G4	6	-10	5		
G5	8	-6	0		
G6	7	-3	7		
sec-tor	0	-45	21		

TABLE 7D3·1·1

Wilcoxon Test of Reported Total Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	0	-26	40		
B2	0	-30	36		
B3	0	-46	20		
B4	0	-30	36		
B5	0	-21	45		
B6	0	-18	48		
B7	0	-5	61·		
B8	0	-35	31		
sec-tor	0	-16	50		

TABLE 7D3·1·2

Wilcoxon Test of Reported Total Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	0	-16	50		
C2	0	-15	51		
C3	0	-25	41		
C4	0	-15	51		
C5	0	-1	65	5	Significant decrease
C6	0	-11	55	5	Significant decrease
C7	0	-20	46		
sec-tor	0	-4	62	5	Significant decrease

TABLE 7D3·1·3

Wilcoxon Test of Reported Total Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−41	25		The Only Sector With More Increase Than Decrease
G2	0	−13	53	10	Significant decrease
G3	0	−28	38		
G4	0	−12	54	10	Significant decrease
G5	0	−22	44		
G6	0	0	66	5	Significant decrease
sec- tor	0	−9	57	5	Significant decrease

TABLE 7D3·2·1

Wilcoxon Test of Reported Residential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	0	−39	27		
B2	0	−36	30		
B3	0	−52	14	10	Significant increase
B4	0	−36	30		
B5	0	−36	30		
B6	0	−30	36		
B7	0	−2	64	5	Significant decrease
B8	0	−37	29		
sec- tor	0	−27	39		

TABLE 7D3·2·2

Wilcoxon Test of Reported Residential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	0	-2	64	5	Significant decrease
C2	0	-13	53	10	Significant decrease
C3	0	-24	42		
C4	0	-16	50		
C5	0	0	66	5	Significant decrease
C6	0	-10	56	5	Significant decrease
C7	0	-25	41		
sec- tor	0	-4	62	5	Significant decrease

TABLE 7D3·2·3

Wilcoxon Test of Reported Residential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	-37	29		The only carbeat with more increase than decrease
G2	0	-15	51		
G3	0	-22	44		
G4	0	-9	57	5	Significant decrease
G5	0	-22	44		
G6	0	-1	65	5	Significant decrease
sec- tor	0	-7	59·	5	Significant decrease

TABLE 7D3·3·1

Wilcoxon Test of Reported Nonresidential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	0	−12	54	10	Significant decrease
B2	0	−12	54	10	Significant decrease
B3	1	−16	39		
B4	0	−14	52	10	Significant decrease
B5	0	−17	49		
B6	0	−13	53	10	Significant decrease
B7	0	−25	41·		
B8	0	−27	39		
sec-tor	0	−2	64	5	Significant decrease

TABLE 7D3·3·2

Wilcoxon Test of Reported Nonresidential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	0	-23	43		
C2	0	-23	43		
C3	0	-16	50		
C4	0	-31	35		
C5	0	-32	34		
C6	0	-17	49		
C7	3	-0	36·	5	Significant decrease
sec- tor	0	-20	46		

TABLE 7D3·3·3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−54	12	10	Significant increase. The only carbeat with more increase than decrease.
G2	0	−24	42		
G3	2	−20	25		
G4	0	−31	35		
G5	1	−26	29		
G6	0	−22	44		
sec- tor	0	−30	36		

E. Analyses of Average Stolen Values

7E1·1 Wilcoxon Test of Average Stolen Value of Reported Total
Burglaries in Sector B.

7E1·2 Wilcoxon Test of Average Stolen Value of Reported Total
Burglaries in Sector C.

7E1·3 Wilcoxon Test of Average Stolen Value of Reported Total
Burglaries in Sector G.

7E2·1 Wilcoxon Test of Average Stolen Value of Reported Residential
Burglaries in Sector B.

7E2·2 Wilcoxon Test of Average Stolen Value of Reported Residential
Burglaries in Sector C.

7E2·3 Wilcoxon Test of Average Stolen Value of Reported Residential
Burglaries in Sector G.

7E3·1 Wilcoxon Test of Average Stolen Value of Reported
Nonresidential Burglaries in Sector B.

7E3·2 Wilcoxon Test of Average Stolen Value of Reported
Nonresidential Burglaries in Sector C.

7E3·3 Wilcoxon Test of Average Stolen Value of Reported
Nonresidential Burglaries in Sector G.

TABLE 7E1·1

Wilcoxon Test of Average Stolen Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	−50	16		
B2	0	−48	18		
B3	0	−37	29		
B4	0	−46	20		
B5	0	−49	17		
B6	0	−54	12	10	Significant increase
B7	0	−51	15		
B8	0	−33	33		
sec- tor	0	−54	12	10	Significant increase

TABLE 7E1·2.

Wilcoxon Test of Average Stolen Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	0	−44	22		
C2	0	−57	9	5	Significant increase
C3	0	−28	38		
C4	0	−61	5	5	Significant increase
C5	0	−63	3	5	Significant increase
C6	0	−61	5	5	Significant increase
C7	0	−46	20		
sec- tor	0	−57	9	5	Significant increase

TABLE 7E1·3·

Wilcoxon Test of Average Stolen Value - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	0	-28	38		
G2	0	-56	10	5	Significant increase
G3	0	-40	26		
G4	0	-44	22		
G5	0	-63	3	5	Significant increase
G6	0	-47	19		
sec- tor	0	-63	3	5	Significant increase

TABLE 7E2·1

Wilcoxon Test of Average Stolen Value – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1	0	−52	14	10	Significant increase
B2	0	−49	17		
B3	0	~37	29		
B4	0	−42	24		
B5	0	−59	7	5	Significant increase
B6	0	−55	11	5	Significant increase
B7	0	−49	17		
B8	0	−50	16		
sector	0	−53	13	10	Significant increase

TABLE 7E2·2·

Wilcoxon Test of Average Stolen Value – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	0	−54	12	10	Significant increase
C2	0	−57	9	5	Significant increase
C3	0	−30	36		
C4	0	−62	4	5	Significant increase
C5	0	−63	3	5	Significant increase
C6	0	−63	3	5	Significant increase
C7	0	−46	20		
sec-tor	0	−61	5	5	Significant increase

TABLE 7E2·2·

TABLE 7E2·3

Wilcoxon Test of Average Stolen Value – Reported Residential Burglaries

AREA	NO OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	0	−34	32		
G2	0	−58	8	5	Significant increase
G3	0	−40	26		
G4	0	−49	17		
G5	0	−66	0	5	Significant increase
G6	0	−50	16		
sec-tor	0	−66	0	5	Significant increase

TABLE 7E3·1·

Wilcoxon Test of Average Stolen Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	-44	22		
B2	0	-27	39		
B3	0	-27	39		
B4	0	-42	24		
B5	0	-36	30		
B6	0	-46	20		
B7	0	-53	13	10	Significant increase
B8	0	-22	44		
sec- tor	0	-52	14	10	Significant increase

TABLE · 7E3·1·

TABLE 7E3·2

Wilcoxon Test of Average Stolen Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
C1	0	−26	40		
C2	0	−46	20		
C3	0	−41	25		
C4	0	−52	14	10	Significant increase
C5	0	−39	27		
C6	0	−41	25		
C7	0	−28	38		
sector	0	−37	29		

TABLE 7E3·3

Wilcoxon Test of Average Stolen Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−40	26		
G2	0	−21	45		
G3	0	−30	36		
G4	0	−40	26		
G5	0	−27	39		
G6	0	−41	25		
sec-tor	0	−36	30		

F.   Analyses of Average Recovered Value

7F1·1   Wilcoxon Test of Average Recovered Value of Reported Total
Burglaries in Sector B.

7F1·2   Wilcoxon Test of Average Recovered Value of Reported Total
Burglaries in Sector C.

7F1·3   Wilcoxon Test of Average Recovered Value of Reported Total
Burglaries in Sector G.

7F2·1   Wilcoxon Test of Average Recovered Value of Reported
Residential Burglaries in Sector B.

7F2·2   Wilcoxon Test of Average Recovered Value of Reported
Residential Burglaries in Sector C.

7F2·3   Wilcoxon Test of Average Recovered Value of Reported
Residential Burglaries in Sector G.

7F3·1   Wilcoxon Test of Average Recovered Value of Reported
Nonresidential Burglaries in Sector B.

7F3·2   Wilcoxon Test of Average Recovered Value of Reported
Nonresidential Burglaries in Sector C.

7F3·3   Wilcoxon Test of Average Recovered Value of Reported
Nonresidential Burglaries in Sector G.

TABLE 7F1·1

Wilcoxon Test of Average Recovered Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	1	−35	20		
B2	2	−30	15		
B3	0	−17	49		
B4	2	−30	15		
B5	0	−57	9	5	Significant increase
B6	0	−55	11	5	Significant increase
B7	1	−43	12		
B8	1	−7	48	5	Significant decrease
sec- tor	0	−41	25		

TABLE 7F1·2

Wilcoxon Test of Average Recovered Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
C1	1	−37	18		
C2	0	−24	42		
C3	0	−25	41		
C4	0	−46	20		
C5	0	−29	37		
C6	0	−47	19		
C7	0	−42	24		
sector	0	−32	34		

TABLE 7F1.3

Wilcoxon Test of Average Recovered Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−38	28		
G2	0	−48	18		
G3	0	−51	15		
G4	0	−45	21		
G5	0	−56	10	5	Significant increase
G6	0	−39	27		
sec-tor	0	−59	7	5	Significant increase

TABLE 7F2·1

Wilcoxon Test of Average Recovered Value – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	2	−33	12		
B2	2	−35	10		
B3	1	−21	34		
B4	2	−26	19		
B5	2	−30	15		
B6	2	−32	13		
B7	1	−45	10	10	Significant increase
B8	2	−6	39	5	The only carbeat with significant decrease
sec-tor	0	−37	29		

TABLE 7F2·2

Wilcoxon Test of Average Recovered Value - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	1	-38	17		
C2	0	-25	41		
C3	0	-22	44		
C4	0	-47	19		
C5	0	-57	9	5	Significant increase
C6	0	-46	20		
C7	0	-49	17		
sec- tor	0	-42	24		

TABLE 7F2·3·

Wilcoxon Test of Average Recovered Value – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	0	−45	21		
G2	0	−45	21		
G3	0	−51	15		
G4	0	−53	13	10	Significant increase
G5	0	−60	6	5	Significant increase
G6	0	−43	23		
sec-tor	0	−65	1	5	Significant increase

TABLE 7F3.1

Wilcoxon Test of Average Recovered Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	4	−17	11		
B2	6	−4	11		
B3	6	−3	12		
B4	6	−9	6		
B5	0	−55	11	5	Significant increase
B6	2	−36	9		
B7	7	−8	2		
B8	4	−3	25	10	The only carbeat with significant decrease
sec- tor	0	−49	17		

TABLE 7F3·2·

Wilcoxon Test of Average Recovered Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	8	-0	36		
C2	3	-14	22		
C3	6	-5	10		
C4	5	-15	6		
C5	2	-11	34		
C6	2	-27	18		
C7	7	-3	7		
sec- tor	0	-24	42		

TABLE 7F3.3

Wilcoxon Test of Average Recovered Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	4	−4	24	10	Significant decrease
G2	4	−18	10		
G3	7	−3	7		
G4	1	−34	24		
G5	6	−6	9		
G6	5	−8	13		
sec-tor	1	−24	31		

G. Analyses of Recovered to Stolen Values Ratios

7G1·1   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Total Burglaries

in Sector B.

7G1·2   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Total Burglaries

in Sector C.

7G1·3   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Total Burglaries

in Sector G.

7G2·1   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Residential

Burglaries in Sector B.

7G2·2   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Residential

Burglaries in Sector C.

7G2·3   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Residential

Burglaries in Sector G.

7G3·1   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Nonresidential

Burglaries in Sector B.

7G3·2   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Nonresidential

Burglaries in Sector C.

7G3·3   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Nonresidential

Burglaries in Sector G.

TABLE 7G1·1

Wilcoxon Test of <u>Recovered Value</u> - Reported Total Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	1	-32	23		
B2	2	-31	14		
B3	0	-16	50		
B4	2	-24	21		
B5	0	-50	16		
B6	0	-57	9	5	Significant increase
B7	1	-37	18		
B8	1	-7	48	5	Significant decrease
sec- tor	0	-37	29		

TABLE 7G1·2

Wilcoxon Test of Recovered Value – Reported Total Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	1	−27	28		
C2	0	−15	51		
C3	0	−21	45		
C4	0	−40	26		
C5	0	−21	45		
C6	0	−39	27		
C7	0	−40	26		
sec- tor	0	−19	47		

TABLE 7G1·3

Wilcoxon Test of Recovered Value - Reported Total Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−43	23		
G2	0	−42	24		
G3	0	−45	21		
G4	0	−43	23		
G5	0	−48	18		
G6	0	−37	29		
sec-tor	0	−50	16		

TABLE 7G2·1

Wilcoxon Test of <u>Recovered Value</u> – Reported Residential Burglaries Stolen Value

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	2	−30	15		
B2	2	−34	11		
B3	1	−21	34		
B4	2	−24	21		
B5	2	−26	19		
B6	2	−32	13		
B7	1	−39	16		
B8	2	−4	41	5	Significant decrease
sec- tor	0	−28	38		

TABLE 7G2·2

Wilcoxon Test of $\frac{\text{Recovered Value}}{\text{Stolen Value}}$ - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	1	−24	31		
C2	0	−15	51		
C3	0	−15	51		
C4	0	−41	25		
C5	0	−45	21		
C6	0	−39	27		
C7	0	−46	20		
sec-tor	0	−19	47		

TABLE 7G2.3

Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	0	−45	21		
G2	0	−41	25		
G3	0	−48	18		
G4	0	−47	19		
G5	0	−50	16		
G6	0	−36	30		
sec-tor	0	−60	6	5	Significant increase

TABLE 7G3.1

Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	4	-19	9		
B2	6	-4	11		
B3	6	-4	11		
B4	6	-7	8		
B5	0	-55	11	5	Significant increase
B6	2	-37	8	10	Significant increase
B7	7	-8	2		
B8	4	-2	26	5	The only carbeat with significant decrease
sec- tor	0	-45	21		

TABLE 7G3·2

Wilcoxon Test of <u>Recovered Value</u> – Reported Nonresidential Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	8	−0	6		
C2	3	−11	25		
C3	6	−2	13		
C4	5	−15	6		
C5	2	−7	38	10	Significant decrease
C6	2	−24	21		
C7	7	−3	7		
sec-tor	0	−19	47		

TABLE 7G3·3

Wilcoxon Test of <u>Recovered Value</u> – Reported Nonresidential Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	4	−3	25	10	Significant decrease
G2	4	−18	10		
G3	7	−4	6		
G4	1	−28	27		
G5	6	−10	5		
G6	5	−8	13		
sec- tor	1	−24	31		

H.   Analyses of Clearance

There are clearance codes (1), (2), (3), (4), and (9), which have
the following meanings:

    (1): arrest of adult or adult with juvenile
    (2): arrest of juvenile only
    (3): exceptional of adult or adult with juvenile
    (4): exceptional of juvenile only
    (9): unfounded

It is found that there was no significant change by clearance (9) between
these two test periods. The tables are:

7H1·1·1   Wilcoxon Test of Clearance (1) for Reported Total
          Burglaries in Sector B.

7H1·1·2   Wilcoxon Test of Clearance (1) for Reported Total
          Burglaries in Sector C.

7H1·1·3   Wilcoxon Test of Clearance (1) for Reported Total
          Burglaries in Sector G.

7H1·2·1   Wilcoxon Test of Clearance (1) for Reported Residential
          Burglaries in Sector B.

7H1·2·2   Wilcoxon Test of Clearance (1) for Reported Residential
          Burglaries in Sector C.

7H1·2·3   Wilcoxon Test of Clearance (1) for Reported Residential
          Burglaries in Sector G.

7H1·3·1   Wilcoxon Test of Clearance (1) for Reported Nonresidential
          Burglaries in Sector B.

7H1·3·2   Wilcoxon Test of Clearance (1) for Reported Nonresidential
          Burglaries in Sector C.

7H1·3·3   Wilcoxon Test of Clearance (1) for Reported Nonresidential
          Burglaries in Sector G.

7H2·1·1   Wilcoxon Test of Clearance (2) for Reported Total
           Burglaries in Sector B.

7H2·1·2   Wilcoxon Test of Clearance (2) for Reported Total
           Burglaries in Sector C.

7H2·1·3   Wilcoxon Test of Clearance (2) for Reported Total
           Burglaries in Sector G.

7H2·2·1   Wilcoxon Test of Clearance (2) for Reported Residential
           Burglaries in Sector B.

7H2·2·2   Wilcoxon Test of Clearance (2) for Reported Residential
           Burglaries in Sector C.

7H2·2·3   Wilcoxon Test of Clearance (2) for Reported Residential
           Burglaries in Sector G.

7H2·3·1   Wilcoxon Test of Clearance (2) for Reported Nonresidential
           Burglaries in Sector B.

7H2·3·2   Wilcoxon Test of Clearance (2) for Reported Nonresidential
           Burglaries in Sector C.

7H2·3·3   Wilcoxon Test of Clearance (2) for Reported Nonresidential
           Burglaries in Sector G.

7H3·1·1   Wilcoxon Test of Clearance (3) for Reported Total
           Burglaries in Sector B.

7H3·1·2   Wilcoxon Test of Clearance (3) for Reported Total
           Burglaries in Sector C.

7H3·1·3   Wilcoxon Test of Clearance (3) for Reported Total
           Burglaries in Sector G.

7H3·2·1   Wilcoxon Test of Clearance (3) for Reported Residential
           Burglaries in Sector B.

7H3·2·2   Wilcoxon Test of Clearance (3) for Reported Residential
           Burglaries in Sector C.

7H3·2·3   Wilcoxon Test of Clearance (3) for Reported Residential
           Burglaries in Sector G.

CONTINUED

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TABLE 7H1·1·1

Wilcoxon Test of Clearance (1) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	1	-34	21		
B2	2	-29	16		
B3	4	-20	8		
B4	4	-21	7		
B5	3	-20	16		
B6	1	-24	31		
B7	3	-0	36	5	Significant decrease
B8	4	-14	14		
sec- tor	0	-37	29		

TABLE 7H1·1·2

Wilcoxon Test of Clearance (1) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	3	-19	17		
C2	0	-20	46		
C3	1	-30	25		
C4	0	-28	38		
C5	0	-22	44		
C6	1	-17	38		
C7	2	-3	42	5	Significant decrease
sec-tor	0	-25	41		

TABLE 7H1·1·3

Wilcoxon Test of Clearance (1) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	0	−27	39		
G2	2	−19	26		
G3	1	−18	37		
G4	0	−23	43		
G5	0	−24	42		
G6	0	−21	45		
sec-tor	0	−13	53·	10	Significant decrease

TABLE 7H1·2·1

Wilcoxon Test of Clearance (1) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	4	−17	11		
B2	4	−17	11		
B3	4	−20	8		
B4	6	−15	0	10	Significant increase
B5	8	−4	2		
B6	7	−1	9		
B7	7	0	28·	5	Significant decrease
B8	6	−7	8		
sec- tor	0	−44	22		

TABLE 7H1·2·2

Wilcoxon Test of Clearance (1) - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	5	−14	7		
C2	0	−26	40		
C3	2	−27	18		
C4	0	−24	42		
C5	1	−25	30		
C6	2	−14	31		
C7	2	−8	37·	10	Significant decrease
sector	0	−29	·37		

TABLE 7H1.2.3

Wilcoxon Test of Clearance (1) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
G1	0	-26	40		
G2	3	-10	26		
G3	2	-17	28		
G4	0	-35	31		
G5	0	-22	44		
G6	4	-12	16		
sector	0	-17	49·		

TABLE 7H1·3·1

Wilcoxon Test of Clearance (1) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B1	7	-7	3		
B2	5	-17	4		
B3	8	-5	1		
B4	8	-1	5		
B5	4	-12	16		
B6	2	-19	26		
B7	8	-1	5		
B8	5	-10	11		
sec- tor	0	-28	38		

TABLE 7H1·3·2

Wilcoxon Test of Clearance (1) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	8	-2	4		
C2	4	-8	20		
C3	8	-3	3		
C4	7	-10	0		
C5	4	-7	21		
C6	6	-7	8		
C7	10	-0	1		
sec- tor	1	-15	40		

TABLE 7H1·3·3

Wilcoxon Test of Clearance (1) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	1	−28	27		
G2	5	−19	2	10	Significant increase
G3	7	−6	4		
G4	5	−4	17		
G5	8	−6	0		
G6	3	−12	24		
sec-tor	0	−27	39·		

TABLE 7H2·1·1

Wilcoxon Test of Clearance (2) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1	4	−25	3		
B2	6	−11	4		
B3	9	−3	0		
B4	4	−10	18		
B5	4	−27	1	5	Significant increase
B6	3	−28	8		
B7	5	−15	6		
B8	7	−10	0		
sector	0	−56	10	5	Significant increase

TABLE 7H2·1·2

Wilcoxon Test of Clearance (2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	7	−2	8		
C2	3	−24	12		
C3	4	−12	16		
C4	10	−1	0		
C5	4	−15	13		
C6	3	−17	19		
C7	6	−13	2		
sec- tor	2	−20	25		

TABLE 7H2·1·3

Wilcoxon Test of Clearance (2) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
G1	5	−15	6		
G2	3	−29	7		
G3	4	−19	9		
G4	0	−57	9	5	Significant increase
G5	2	−33	12		
G6	6	−15	0	10	Significant increase
sec-tor	0	−58	8	5	Significant increase

TABLE 7H2·2·1

Wilcoxon Test of Clearance (2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1	6	−14	1		
B2	8	−6	0		
B3	9	−3	0		
B4	6	−8	7		
B5	7	−7	3		
B6	6	−10	5		
B7	5	−15	6		
B8	7	−10	0		
sector	0	−52	14		

TABLE 7H2·2·2

Wilcoxon Test of Clearance (2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
C1	8	0	6		
C2	5	-10	11		
C3	4	-11	17		
C4	11	0	0		
C5	6	-7	8		
C6	5	-10	11		
C7	6	-13	2		
sector	3	-12	24		

TABLE 7H2·2·3

Wilcoxon Test of Clearance (2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	7	-10	0		
G2	4	-24	4	10	Significant increase
G3	4	-23	5		
G4	2	-35	10		
G5	4	-21	7		
G6	8	-6	0		
sec- tor	0	-60	6 ·	5	Significant increase

TABLE 7H2·3·1

Wilcoxon Test of Clearance (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	8	−4	2		
B2	9	−1	2		
B3	11	0	0		
B4	7	−3	7		
B5	6	−15	0	10	Significant increase
B6	7	−10	0		
B7	10	0	1		
B8	10	−1	0		
sec-tor	2	−32	13		

TABLE 7H2·3·2

Wilcoxon Test of Clearance (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
C1	9	−1	2		
C2	7	−10	0		
C3	10	−1	0		
C4	10	−1	0		
C5	7	−6	4		
C6	7	−7	3		
C7	11	0	0		
sector	6	−13	2		

TABLE 7H2·3·3

Wilcoxon Test of Clearance (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
G1	8	−3	3		
G2	8	−3	3		
G3	10	0	1		
G4	4	−24	4	10	Significant increase
G5	8	−3.5	2.5		
G6	8	−6	0		
sector	2	−36	9 ·		

TABLE 7H3·1·1

Wilcoxon Test of Clearance (3) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	5	-15	6		
B2	6	-11	4		
B3	8	-2	4		
B4	7	0	10		
B5	2	-24	21		
B6	2	-13	32		
B7	3	-10	26		
B8	5	0	21	5	Significant decrease
sec-tor	0	-19	47		

TABLE 7H3·1·2

Wilcoxon Test of Clearance (3) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
C1	4	−16	12		
C2	1	−17	38		
C3	8	0	6		
C4	4	−18	10		
C5	0	−15	51		
C6	2	−4	41	5	Significant decrease
C7	7	0	10		
sector	0	−18	48		

Wilcoxon Test of Clearance (3) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	3	−18	18		
G2	2	−14	31		
G3	7	−7	3		
G4	5	−13	8		
G5	7	−7	3		
G6	4	−7	21		
sec-tor	2	−26	19·		

TABLE 7H3·2·1

Wilcoxon Test of Clearance (3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	5	-14	7		
B2	6	-11	4		
B3	9	-2	1		
B4	8	0	6		
B5	5	-14	7		
B6	5	-5	16		
B7	4	-7	21		
B8	6	0	15	10	Significant decrease
sec- tor	1	-17	38		

TABLE 7H3·2·2

Wilcoxon Test of Clearance (3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	5	−14	7		
C2	2	−17	28		
C3	8	0	6		
C4	5	−10	11		
C5	3	−15	21		
C6	3	−4	32	5	Significant decrease
C7	7	0	10		
sec- tor	1	−16	39		

TABLE 7H3·2·3

Wilcoxon Test of Clearance (3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	6	−7	8		
G2	3	−12	24		
G3	7	−7	3		
G4	5	−12	9		
G5	7	−7	3		
G6	6	−3	12		
sec-tor	2	−25	20·		

TABLE 7H3·3·1

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	10	0	1		
B2	10	0	1		
B3	10	0	1		
B4	9	0	3		
B5	6	-5	10		
B6	6	-5	10		
B7	9	0	3 ·		
B8	9	0	3		
sec-tor	6	-4	11		

TABLE 7H3·3·2

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	8	0	6		
C2	5	-4	17		
C3	11	0	0		
C4	9	-2	1		
C5	5	-5	16		
C6	9	0	3		
C7	11	0	0		
sec- tor	4	0	28	5	Significant decrease

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	6	−11	4		
G2	8	0	6		
G3	11	0	0		
G4	10	−1	0		
G5	11	0	0		
G6	9	−2	1		
sec- tor	6	−7	8		

TABLE 7H4·1·1

Wilcoxon Test of Clearance (4) –Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	3	−25	11		
B2	3	−16	20		
B3	3	−8	28		
B4	4	−17	11		
B5	3	−30	6	10	Significant increase
B6	0	−33	33		
B7	0	−8	58	5	Significant decrease
B8	2	−18	27		
sec-tor	0	−23	43		

TABLE 7H4·1·2

Wilcoxon Test of Clearance (4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	6	−3	12		
C2	2	−9	36		
C3	0	−8	58	5	Significant decrease
C4	9	−2	1		
C5	1	−9	46		
C6	1	−14	41		
C7	0	−19	47		
sec- tor	0	−5	61	5	Significant decrease

TABLE

					REMARKS

TABLE ....-....

Wilcoxon ....

AREA	NO of ZEROS EXCLUDED IN	NEGATIVE RANK SUM ...	POSITIVE RANK SUM ...	... AT	REMARKS
B1	5	... 9	12		
B2	4	−10	...19		
B3	...	−7	21		
B4		−..	3..		
B5		−1..	8	1..	Significant ...
B6		−19	26		
A7	4	−8..	32	5	Significant ...
B8	4	−17	17		
Total	0	−30	46		

TABLE 7H4·2·2

Wilcoxon Test of Clearance (4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	6	0	15	10	Significant decrease
C2	3	-2	34	5	Significant decrease
C3	1	-2	53	5	Significant decrease
C4	10	-1	0		
C5	2	-7	38	10	Significant decrease
C6	3	-8	28		
C7	3	-7	29		
sec-tor	0	-3	63	5	Significant decrease

TABLE 7H4·2·3

Wilcoxon Test of Clearance (4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	6	-3	12		
G2	2	-23	22		
G3	2	-6	39	5	Significant decrease
G4	2	-8	37	10	Significant decrease
G5	2	-13	32		
G6	8	0	5		
sec-tor	0	-9	57	5	Significant decrease

TABLE 7H4·3·1

Wilcoxon Test of Clearance (4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	5	-17	4		
B2	8	-6	0		
B3	9	-0	3		
B4	8	-5	1		
B5	3	-27	9		
B6	5	-12	9		
B7	7	0	10·		
B8	7	-4	6		
sec-tor	1	-34	21		

TABLE 7H4.3.2

Wilcoxon Test of Clearance (4) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	9	-2	1		
C2	8	-3	3		
C3	5	-10	11		
C4	10	0	1		
C5	8	0	6		
C6	7	-4	6		
C7	6	-7	8		
sec-tor	2	19	26		

TABLE 7H4·3·3

Wilcoxon Test of Clearance (4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
G1	7	0	10		
G2	5	−4	17		
G3	6	−7	8		
G4	5	−3	13		
G5	7	−9	1		
G6	4	−10	18		
sec-tor	1	−19	36·		

I.   Analyses of Combination of Clearance

Here are the studies of Combination of Clearances. These are (1) and (2),
(3) and (4), (1) and (3), (2) and (4). The tables are:

7I1·1·1   Wilcoxon Test of Clearance (1) and (2) for Reported
             Total Burglaries in Sector B.

7I1·1·2   Wilcoxon Test of Clearance (1) and (2) for Reported
             Total Burglaries in Sector C.

7I1·1·3   Wilcoxon Test of Clearance (1) and (2) for Reported
             Total Burglaries in Sector G.

7I1·2·1   Wilcoxon Test of Clearance (1) and (2) for Reported
             Residential Burglaries in Sector B.

7I1·2·2   Wilcoxon Test of Clearance (1) and (2) for Reported
             Residential Burglaries in Sector C.

7I1·2·3   Wilcoxon Test of Clearance (1) and (2) for Reported
             Residential Burglaries in Sector G.

7I1·3·1   Wilcoxon Test of Clearance (1) and (2) for Reported
             Nonresidential Burglaries in Sector B.

7I1·3·2   Wilcoxon Test of Clearance (1) and (2) for Reported
             Nonresidential Burglaries in Sector C.

7I1·3·3   Wilcoxon Test of Clearance (1) and (2) for Reported
             Nonresidential Burglaries in Sector G.

7I2·1·1   Wilcoxon Test of Clearance (3) and (4) for Reported
             Total Burglaries in Sector B.

7I2·1·2   Wilcoxon Test of Clearance (3) and (4) for Reported
             Total Burglaries in Sector C.

7I2·1·3   Wilcoxon Test of Clearance (3) and (4) for Reported
             Total Burglaries in Sector G.

7I2·2·1   Wilcoxon Test of Clearance (3) and (4) for Reported Residential Burglaries in Sector B.

7I2·2·2   Wilcoxon Test of Clearance (3) and (4) for Reported Residential Burglaries in Sector C.

7I2·2·3   Wilcoxon Test of Clearance (3) and (4) for Reported Residential Burglaries in Sector G.

7I2·3·1   Wilcoxon Test of Clearance (3) and (4) for Reported Nonresidential Burglaries in Sector B.

7I2·3·2   Wilcoxon Test of Clearance (3) and (4) for Reported Nonresidential Burglaries in Sector C.

7I2·3·3   Wilcoxon Test of Clearance (3) and (4) for Reported Nonresidential Burglaries in Sector G.

7I3·1·1   Wilcoxon Test of Clearance (1) and (3) for Reported Total Burglaries in Sector B.

7I3·1·2   Wilcoxon Test of Clearance (1) and (3) for Reported Total Burglaries in Sector C.

7I3·1·3   Wilcoxon Test of Clearance (1) and (3) for Reported Total Burglaries in Sector G.

7I3·2·1   Wilcoxon Test of Clearance (1) and (3) for Reported Residential Burglaries in Sector B.

7I3·2·2   Wilcoxon Test of Clearance (1) and (3) for Reported Residential Burglaries in Sector C.

7I3·2·3   Wilcoxon Test of Clearance (1) and (3) for Reported Residential Burglaries in Sector G.

7I3·3·1   Wilcoxon Test of Clearance (1) and (3) for Reported Nonresidential Burglaries in Sector B.

7I3·3·2   Wilcoxon Test of Clearance (1) and (3) for Reported Nonresidential Burglaries in Sector C.

7I3·3·3   Wilcoxon Test of Clearance (1) and (3) for Reported Nonresidential Burglaries in Sector G.

714·1·1   Wilcoxon Test of Clearance (2) and (4) for Reported
            Total Burglaries in Sector B.

714·1·2   Wilcoxon Test of Clearance (2) and (4) for Reported
            Total Burglaries in Sector C.

714·1·3   Wilcoxon Test of Clearance (2) and (4) for Reported
            Total Burglaries in Sector G.

714·2·1   Wilcoxon Test of Clearance (2) and (4) for Reported
            Residential Burglaries in Sector B.

714·2·2   Wilcoxon Test of Clearance (2) and (4) for Reported
            Residential Burglaries in Sector C.

714·2·3   Wilcoxon Test of Clearance (2) and (4) for Reported
            Residential Burglaries in Sector G.

714·3·1   Wilcoxon Test of Clearance (2) and (4) for Reported
            Nonresidential Burglaries in Sector B.

714·3·2   Wilcoxon Test of Clearance (2) and (4) for Reported
            Nonresidential Burglaries in Sector C.

714·3·3   Wilcoxon Test of Clearance (2) and (4) for Reported
            Nonresidential Burglaries in Sector G.

TABLE 7I1.1.1

Wilcoxon Test of Clearance (1)&(2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	−46	20		
B2	1	−35	20		
B3	3	−31	5	10	Significant increase
B4	1	−27	28		
B5	1	−42	13		
B6	1	−49	16		
B7	2	−7	38·	10	The only carbeat with significant decrease
B8	3	−21	15		
sec- tor	0	−43	23		

TABLE 7I1·1·2

Wilcoxon Test of Clearance (1)&(2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	1	−16	39		
C2	0	−19	47		
C3	0	−27	39		
C4	0	−25	41		
C5	0	−11	55	5	Significant decrease
C6	0	−17	49		
C7	1	−14	41		
sec- tor	0	−9	57	5	Significant decrease

TABLE 7I1·1·3

Wilcoxon Test of Clearance (1)& (2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SiGNIFI- CANT AT %	R E M A R K S
G1	0	-22	44		
G2	1	-27	28		
G3	1	-21	34		
G4	0	-38	28		
G5	0	-22	44		
G6	0	-33	33		
sec- tor	0	-17	49·		

TABLE 7I1·2·1

The Wilcoxon Test of Clearance (1)&(2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B1	3	−27	9		
B2	3	−26	10		
B3	3	−29	7		
B4	2	−37	8	10	Significant increase
B5	5	−15	6		
B6	4	−16	12		
B7	3	−8	28		
B8	3	−23	13		
sector	0	−50	16		

TABLE 7I1·2·2

Wilcoxon Test of Clearance (1) & (2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	4	−12	16		
C2	0	−28	38		
C3	0	−21	45		
C4	0	−18	48		
C5	0	−25	41		
C6	0	−15	51		
C7	1	−17	38		
sec- tor	0	−13	53	10	Significant decrease

TABLE 7I1·2:3

Wilcoxon Test of Clearance (1)&(2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
G1	0	−27	39		
G2	1	−23	32		
G3	1	−23	32		
G4	0	−40	26		
G5	0	−21	45		
G6	2	−25	20		
sector	0	−19	47		

TABLE 7I1.3.1

Wilcoxon Test of Clearance (1)&(2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	5	−12	9		
B2	5	−10	11		
B3	8	−5	1		
B4	5	−7	14		
B5	2	−37	8	10	Significant increase
B6	1	−34	21		
B7	7	−1	9		
B8	4	−13	15		
sec-tor	0	−29	37		

TABLE 7I1.3.2

Wilcoxon Test of Clearance (1)& (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
C1	6	-3	12		
C2	1	-25	30		
C3	7	-6	4		
C4	6	-15	0	10	Significant increase
C5	2	-11	34		
C6	4	-11	17		
C7	10	0	1		
sec- tor	0	-16	50		

TABLE 7I1·3·3

Wilcoxon Test of Clearance (1) & (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
G1	1	−19	36		
G2	4	−19	9		
G3	7	−4	6		
G4	2	−19	26		
G5	6	−11	4		
G6	3	−14	22		
sector	0	−28	38·		

Wilcoxon Test of Clearance (3)& (4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	1	−38	17		
B2	1	−27	28		
B3	3	−11	25		
B4	3	−14	22		
B5	0	−47	19		
B6	0	−23	43		
B7	0	−5	61·	5	Significant decrease
B8	1	−5	50	5	Significant decrease
sec- tor	0	−18	48		

Wilcoxon Test of Clearance (3)&(4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	4	−9	19		
C2	0	−15	51		
C3	0	−7	59	5	Significant decrease
C4	3	−16	20		
C5	0	−5	61	5	Significant decrease
C6	0	−14	52	10	Significant decrease
C7	0	−11	55	5	Significant decrease
sec-tor	0	−6	60	5	Significant decrease

TABLE 7I2·1·3

Wilcoxon Test of Clearance (3)&(4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
G1	0	−13	53	10	Significant decrease
G2	0	−24	42		
G3	0	−21	45		
G4	0	−26	40		
G5	0	−38	28		
G6	3	−10	26		
sector	0	−20	46·		

TABLE 7H3·3·2

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	8	0	6		
C2	5	-4	17		
C3	11	0	0		
C4	9	-2	1		
C5	5	-5	16		
C6	9	0	3		
C7	11	0	0		
sec-tor	4	0	28	5	Significant decrease

TABLE 7H3·3·2

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	8	0	6		
C2	5	-4	17		
C3	11	0	0		
C4	9	-2	1		
C5	5	-5	16		
C6	9	0	3		
C7	11	0	0		
sec- tor	4	0	28	5	Significant decrease

TABLE 7H3·3·3

Wilcoxon Test of Clearance (3) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	6	-11	4		
G2	8	0	6		
G3	11	0	0		
G4	10	-1	0		
G5	11	0	0		
G6	9	-2	1		
sec- tor	6	-7	8		

TABLE 7I2·3·2

Wilcoxon Test of Clearance (3)&(4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	6	−5	10		
C2	4	−9	19		
C3	5	−9	12		
C4	8	−3	3		
C5	3	−6	30	10	Significant decrease
C6	5	−5	16		
C7	6	−8	7		
sec-tor	0	−22	44		

TABLE 7I2·3·3

Wilcoxon Test of Clearance (3) & (4) - Reported Nonresidential Burglaries

| AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
G1	2	-13	32		
G2	4	-7	21		
G3	6	-7	8		
G4	5	-11	10		
G5	7	-9	1		
G6	4	-11	17		
sec- tor	0	-29	37·		

TABLE 7I3·1·1

Wilcoxon Test of Clearance (1)&(3) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	0	−41	25		
B2	1	−35	20		
B3	4	−18	10		
B4	4	−10	18		
B5	2	−15	30		
B6	1	−9	46	10	Significant decrease
B7	2	−1	44	5	Significant decrease
B8	2	−18	27		
sec- tor	0	−24	42		

TABLE 7I3·1·2

Wilcoxon Test of Clearance (1)&(3) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	2	−17	28		
C2	0	−19	47		
C3	1	−28	27		
C4	0	−29	37		
C5	0	−12	54	10	Significant decrease
C6	0	−10	56	5	Significant decrease
C7	1	−6	49	5	Significant decrease
sec- tor	0	−16	50		

TABLE 7I3·1·3

Wilcoxon Test of Clearance (1) & (3) — Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−32	34		
G2	0	−28	38		
G3	1	−32	23		
G4	0	−35	31		
G5	0	−32	34		
G6	0	−22	44		
sec- tor	0	−28	38·		

TABLE 7I3·2·1

Wilcoxon Test of Clearance (1)&(3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B1	1	−30	25		
B2	1	−37	18		
B3	4	−20	8		
B4	5	−13	8		
B5	4	−14	14		
B6	3	−2	34	5	Significant decrease
B7	2	−6	39	5	Significant decrease
B8	3	−10	26		
sec- tor	0	−33	33		

TABLE 7I3·2·2

Wilcoxon Test of Clearance (1)&(3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	3	−23	13		
C2	0	−27	39		
C3	1	−25	30		
C4	0	−29	37		
C5	1	−19	36		
C6	0	−14	52	10	Significant decrease
C7	1	−8	47	5	Significant decrease
sec- tor	0	−22	44		

TABLE 7I3·2·3

Wilcoxon Test of Clearance (1)&(3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	0	−27	39		
G2	1	−14	41		
G3	2	−26	19		
G4	0	−44	22		
G5	0	−30	36		
G6	3	−16	20		
sec- tor	0	−23	43·		

TABLE 7I3·3·1

Wilcoxon Test of Clearance (1) & (3) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	6	-11	4		
B2	5	-13	8		
B3	8	-4	2		
B4	7	-1	9		
B5	3	-12	24		
B6	2	-17	28		
B7	7	-1	9		
B8	4	-15	13		
sector	0	-24	42		

TABLE 7I3·3·2

Wilcoxon Test of Clearance (1) & (3) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
C1	6	-4	11		
C2	2	-12	33		
C3	8	-4	2		
C4	5	-19	2	10	Significant increase
C5	3	-5	31	10	Significant decrease
C6	5	-10	11		
C7	10	0	1		
sec-tor	0	-20	46		

TABLE 7I3·3·3

Wilcoxon Test of Clearance (1) & (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	1	−35	20		
G2	3	−27	9		
G3	7	−7	3		
G4	4	−10	18		
G5	8	−6	0		
G6	2	−19	26		
sec- tor	0	−41	25.		

TABLE 7I4·1·1

Wilcoxon Test of Clearance (2)&(4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	1	-37	18		
B2	2	-24	21		
B3	2	-18	27		
B4	1	-23	32		
B5	0	-56	10	5	Significant increase
B6	0	-36	30		
B7	0	-16	50		
B8	1	-34	21		
sector	0	-28	38		

TABLE 7I4·1·2

Wilcoxon Test of Clearance (2)&(4) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
C1	2	-4	41	5	Significant decrease
C2	1	-17	38		
C3	0	-9	57	5	Significant decrease
C4	8	-5	1		
C5	1	-13	42		
C6	0	-11	55	5	Significant decrease
C7	0	-24	42		
sec-tor	0	-6	60	5	Significant decrease

TABLE 7I4·1·3

Wilcoxon Test of Clearance (2) & (4) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	1	−16	39		
G2	1	−22	33		
G3	0	−19	47		
G4	0	−44	22		
G5	0	−26	40		
G6	2	−27	18		
sec- tor	0	−29	37		

TABLE 7I4·2·1

Wilcoxon Test of Clearance (2)&(4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B1	2	−27	18		
B2	3	−21	15		
B3	2	−21	24		
B4	3	−15	21		
B5	2	−36	9	10	Significant increase
B6	2	−20	25		
B7	1	−17	38		
B8	3	−22	14		
sec-tor	0	−29	37		

TABLE 7I4·2·2

Wilcoxon Test of Clearance (2) & (4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	3	0	36	5	Significant decrease
C2	1	-12	43		
C3	0	-6	60	5	Significant decrease
C4	10	-1	0		
C5	2	-9	36		
C5	1	-12	43		
C7	1	-22	33·		
sec- tor	0	-4	62	5	Significant decrease

TABLE 7I4·2·3

Wilcoxon Test of Clearance (2)&(4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	4	−13	15		
G2	1	−31	24		
G3	0	−22	44		
G4	0	−32	34		
G5	0	−23	43		
G6	6	−10	5		
sec- tor	0	−31	35		

TABLE 7I4·3·1

Wilcoxon Test of Clearance (2)&(4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B1	5	−15	6		
B2	8	−3	3		
B3	9	0	3		
B4	5	−10	11		
B5	1	−44	11	10	Significant increase
B6	3	−19	17		
B7	6	0	15	10	Significant decrease
B8	7	−4	6		
sec-tor	0	−29	37		

TABLE 7I4·3·2

Wilcoxon Test of Clearance (2)&(4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
C1	7	−5	5		
C2	5	−16	5		
C3	4	−13	15		
C4	9	−2	1		
C5	5	−6	15		
C6	5	−6	15		
C7	6	−5	10		
sec-tor	1	−23	32		

TABLE 7I4.3.3

Wilcoxon Test of Clearance (2)&(4) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
G1	5	−5	16		
G2	3	−8	28		
G3	5	−6	15		
G4	2	−31	14		
G5	5	−13.5	7.5		
G6	3	−15	21		
sec- tor	0	−29	37		

Appendix V Tables of Wilcoxon Test Results – All Sectors

A. Analyses of the Numbers of Reported Burglaries
   1. Total Burglaries
   2. Residential Burglaries
   3. Nonresidential Burglaries

B. Analyses of the Relative Ratios of Reported Burglaries
   1. Total Burglaries
   2. Residential Burglaries
   3. Nonresidential Burglaries

C. Analyses of Premises
   1. Houses
   2. Apartments
   3. Others

D. Analyses of Force of Entry
   1. Major Force
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   2. Minor Force
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries
   3. No Force
      a. Total Burglaries
      b. Residential Burglaries
      c. Nonresidential Burglaries

E. Analyses of Average Stolen Value
   1. Total Burglaries
   2. Residential Burglaries
   3. Nonresidential Burglaries

F. Analyses of Average Recovered Value
   1. Total Burglaries
   2. Residential Burglaries
   3. Nonresidential Burglaries

G. Analyses of Recovered to Stolen Values Ratio
   1. Total Burglaries
   2. Residential Burglaries
   3. Nonresidential Burglaries

H. Analyses of Clearance (1), (2), (3), (4)
    1. Clearance (1)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    2. Clearance (2)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    3. Clearance (3)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    4. Clearance (4)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries

I. Analyses of Combination of Clearance
    1. Clearance (1) and (2)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    2. Clearance (3) and (4)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    3. Clearance (1) and (3)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries
    4. Clearance (2) and (4)
        a. Total Burglaries
        b. Residential Burglaries
        c. Nonresidential Burglaries

A.   Analyses of the Numbers of Reported Burglaries

8A1   Wilcoxon Test of the Number of Reported Total Burglaries by Sectors.

8A2   Wilcoxon Test of the Number of Reported Residential Burglaries by Sectors.

8A3   Wilcoxon Test of the Number of Reported Nonresidential Burglaries by Sectors.

TABLE 8A1

Wilcoxon Test of the Number of Reported Total Burglaries by Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B	0	-55	23		
C	0	-29	49		The only sector with more decrease than increase
G	0	-69	11	5	Significant increase
D	0	-65	13	5	Significant increase
Q	0	-53	25		
U	0	-57	21		
K	0	-55	23		
W	0	-72	6	5	Significant increase
R	0	-65	13	5	Significant increase
N	0	-78	0	5	Significant increase
CTW*	0	-77	1	5	Significant increase

*CTW = Citywide

TABLE 8A2

Wilcoxon Test of the Number of Reported Residential Burglaries by Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−60	18		
C	0	−31	47		The only sector with more decrease than increase
G	0	−59	19		
D	0	−64	14	5	Significant increase
Q	0	−42	36		
U	0	−69	9	5	Significant increase
K	0	−61	17	10	Significant increase
W	0	−73	5	5	Significant increase
R	0	−59	19		
N	0	−78	0	5	Significant increase
CTW*	0	−63	15	10	Significant increase

*CTW = Citywide

TABLE 8A3

Wilcoxon Test of the Number of Reported Non-Residential Burglaries by Sectors

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B	0	−29	49		
C	0	−26	52		
G	0	−52	26		
D	0	−61	17	10	Significant increase
Q	0	−57	21		
U	0	−11	67	5	The only sector with significant decrease
K	0	−54	24		
W	0	−28	50		
R	0	−61	17	10	Significant increase
N	0	−53	24		
CTW*	0	−25	53		

*CTW = Citywide

B.   Analyses of the Relative Ratios of Reported Burglaries

8B1   Wilcoxon Test of the Relative Ratio of Reported Total
Burglaries by Sectors.

8B2   Wilcoxon Test of the Relative Ratio of Reported Residential
Burglaries by Sectors.

8B3   Wilcoxon Test of the Relative Ratio of Reported
Nonresidential Burglaries by Sectors.

TABLE 8B1

Wilcoxon Test of the Ratio of Reported Total Burglaries of Each Sector to That of the Rest of the City Excluding the Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	-21	57		
C	0	-12	66	5	Significant decrease
G	0	-18	60		
D	0	-51	27		
Q	0	-17	61	10	Significant decrease
U	0	-23	55		
K	0	-38	40		
W	0	-58	20		
R	0	-21	57		
N	0	-44	34		
CTW*					Not applicable

*CTW = Citywide

C.   Analyses of Premises

TABLE 8C1

Wilcoxon Test of House Burglary Ratio

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	-16	50		
C	0	-22	44		
G	0	-18	48		
D	4	-10	18		
Q	0	-4	62	5	Significant decrease
U	0	-46	20		
K	0	-23	43		
W	0	-43	23		
R	0	-20	46		
N	0	-48	18		
CTW*					Not applicable

*CTW = Citywide

TABLE

Area					REMARKS
					Not applicable

TABLE

AREA					
E	0				
C	0				
G	0				
D	0				
O	0				
U	0				
K	0				
W	0				
R	0				
N	0				
CTW					Not applicable

*CTW = Citywide

D.   Analyses of Force of Entry

TABLE 8D1·1

Wilcoxon Test of Reported Total Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	-12	54	10	Significant decrease
C	0	-20	46		
G	0	-30	36		
D	0	-43	23		
Q	0	-11	55	5	Significant decrease
U	0	-29	37		
K	0	-28	38		
W	0	-46	20		
R	0	-20	46		
N	0	-48	18		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D1·2

Wilcoxon Test of Reported Residential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	-12	54	10	Significant decrease
C	0	-20	46		
G	0	-25	41		
D	0	-28	38		
Q	0	-7	59	5	Significant decrease
U	0	-31	35		
K	0	-20	46˙		
W	0	-50	16		
R	0	-18	48		
N	0	-50	16		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D1·3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Major Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−27	39		
C	0	−10	56	5	Significant decrease
G	0	−38	28		
D	0	−49	17		
Q	0	−32	34		
U	0	−16	50		
K	0	−29	37		
W	0	−22	44		
R	0	−41	25		
N	0	−40	26		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D2.1

Wilcoxon Test of Reported Total Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	1	−36	19		
C	0	−32	34		
G	0	−50	16		
D	0	−42	24		
Q	0	−29	37		
U	0	−33	33		
K	0	−51	15		
W	0	−28	38		
R	0	−34	32		
N	0	−18	48		
CTW*					Not Applicable

*CTW = Citywide

TABLE 8D2·2

Wilcoxon Test of Reported Residential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B	·1	−28	27		
C	0	−28	38		
G	0	−37	29		
D	1	−39	16		
Q	1	−20	35		
U	0	−35	31		
K	1	−47	8	5	Significant increase
W	0	−21	45		
R	0	−32	34		
N	1	−31	24		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D2·3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with Minor Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	4	−19	9		
C	1	−42	13		
G	0	−45	21		
D	1	−30	25		
Q	1	−24	31		
U	4	−14	14		
K	1	−39	16		
W	6	−10	5		
R	1	−29	26		
N	1	−25	30		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D3·1

Wilcoxon Test of Reported Total Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−16	50		
C	0	−4	62	5	Significant decrease
G	0	−9	57	5	Significant decrease
D	0	−29	37		
Q	0	−31	35		
U	0	−22	44		
K	0	−26	40		
W	0	−55	11	5	Significant increase
R	0	−16	50		
N	0	−52	14	10	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8D3·2

Wilcoxon Test of Reported Residential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−27	39		
C	0	−4	62	5	Significant decrease
G	0	−7	59	5	Significant decrease
D	0	−19	47		
Q	0	−27	39		
U	0	−33	33		
K	0	−22	44		
W	0	−58	8	5	Significant increase
R	0	−12	54	10	Significant decrease
N	0	−47	19		
CTW*					Not applicable

*CTW = Citywide

TABLE 8D3·3

Wilcoxon Test of Reported Nonresidential Burglary Ratio with No Force of Entry

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−2	64	5	Significant decrease
C	0	−20	46		
G	0	−30	36		
D	0	−51	15		
Q	0	−40	26		
U	0	−2	64	5	Significant decrease
K	0	−44	22		
W	0	−24	42		
R	0	−23	43		
N	0	−44	22		
CTW*					Not applicable

*CTW = Citywide

E.   Analyses of Average Stolen Value

TABLE 8E1

Wilcoxon Test of Average Stolen Value - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−54	12	10	Significant increase
C	0	−57	9	5	Significant increase
G	0	−63	3	5	Significant increase
D	0	−56	10	5	Significant increase
Q	0	−51	15		
U	0	−52	14	10	Significant increase
K	0	−54	12	10	Significant increase
W	0	−53	13	10	Significant increase
R	0	−65	1	5	Significant increase
N	0	−66	0	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8E2

Wilcoxon Test of Average Stolen Value - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	-52	14	10	Significant increase
C	0	-61	5	5	Significant increase
G	0	-66	0	5	Significant increase
D	0	-48	18		
Q	0	-52	14	10	Significant increase
U	0	-48	18		
K	0	-41	25		
W	0	-47	19		
R	0	-63	3	5	Significant increase
N	0	-66	0	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8E3

Wilcoxon Test of Average Stolen Value – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−52	14	10	Significant increase
C	0	−37	29		
G	0	−36	30		
D	0	−54	12	10	Significant increase
Q	0	−43	23		
U	0	−54	12	10	Significant increase
K	0	−56	10	5	Significant increase
W	0	−52	14	10	Significant increase
R	0	−53	13	10	Significant increase
N	0	−48	18		
CTW*					Not applicable

*CTW = Citywide

F.   Analyses of Average Recovered Value

8F1   Wilcoxon Test of Average Recovered Value of Reported
      Total Burglaries by Sectors.

8F2   Wilcoxon Test of Average Recovered Value of Reported
      Residential Burglaries by Sectors.

8F3   Wilcoxon Test of Average Recovered Value of Reported
      Nonresidential Burglaries by Sectors.

TABLE 8F1

Wilcoxon Test of Average Recovered Value – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−41	25		
C	0	−31	35		
G	0	−59	7	5	Significant increase
D	0	−45	21		
Q	0	−60	6	5	Significant increase
U	0	−32	34		
K	0	−33	33		
W	0	−42	24		
R	0	−58	8	5	Significant increase
N	0	−60	6	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8F2

Wilcoxon Test of Average Recovered Value - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−37	29		
C	0	−41	25		
G	0	−65	1	5	Significant increase
D	0	−44	22		
Q	0	−56	10	5	Significant increase
U	0	−31	35		
K	1	−43	12	10	Significant increase
W	0	−29	37		
R	0	−49	17		
N	0	−58	8	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8F3

Wilcoxon Test of Average Recovered Value - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B	0	-49	17		
C	0	-24	42		
G	1	-24	31		
D	0	-42	24		
Q	0	-46	20		
U	0	-21	45		
K	0	-25	41		
W	0	-53	13	10	Significant increase
R	0	-48	18		
N	0	-59	7	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

G. Analyses of Recovered to Stolen Values Ratios

8G1   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Total

Burglaries by Sectors.

8G2   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Residential

Burglaries by Sectors.

8G3   Wilcoxon Test of $\dfrac{\text{Recovered Value}}{\text{Stolen Value}}$ of Reported Nonresidential

Burglaries by Sectors.

TABLE 8G1

Wilcoxon Test of <u>Recovered Value</u> – Reported Total Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−37	29		
C	0	−19	47		
G	0	−50	16		
D	0	−33	33		
Q	0	−54	12	10	Significant increase
U	0	−26	40		
K	0	−32	34		
W	0	−35	31		
R	0	−49	17		
N	0	−56	10	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8G2

Wilcoxon Test of <u>Recovered Value</u> – Reported Residential Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−28	38		
C	0	−19	47		
G	0	−60	6	5	Significant increase
D	0	−38	28		
Q	0	−55	11	5	Significant increase
U	0	−30	36		
K	1	−37	18		
W	0	−24	42		
R	0	−35	31		
N	0	−54	12	10	Significant increase
CTW*					Not applicable

*CTW = Citywide

TABLE 8G3

Wilcoxon Test of <u>Recovered Value</u> – Reported Nonresidential Burglaries
Stolen Value

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B	0	−45	21		
C	0	−19	47		
G	1	−24	31		
D	0	−30	36		
Q	0	−40	26		
U	0	−19	47		
K	0	−25	41		
W	0	−49	17		
R	0	−44	22		
N	0	−63	3	5	Significant increase
CTW*					Not applicable

*CTW = Citywide

H.   Analyses of Clearance

8H1·1   Wilcoxon Test of Clearance (1) for Reported Total
Burglaries by Sectors.

8H1·2   Wilcoxon Test of Clearance (1) for Reported Residential
Burglaries by Sectors.

8H1·3   Wilcoxon Test of Clearance (1) for Reported Nonresidential
Burglaries by Sectors.

8H2·1   Wilcoxon Test of Clearance (2) for Reported Total
Burglaries by Sectors.

8H2·2   Wilcoxon Test of Clearance (2) for Reported Residential
Burglaries by Sectors.

8H2·3   Wilcoxon Test of Clearance (2) for Reported Nonresidential
Burglaries by Sectors.

8H3·1   Wilcoxon Test of Clearance (3) for Reported Total
Burglaries by Sectors.

8H3·2   Wilcoxon Test of Clearance (3) for Reported Residential
Burglaries by Sectors.

8H3·3   Wilcoxon Test of Clearance (3) for Reported Nonresidential
Burglaries by Sectors.

8H4·1   Wilcoxon Test of Clearance (4) for Reported Total
Burglaries by Sectors.

8H4·2   Wilcoxon Test of Clearance (4) for Reported Residential
Burglaries by Sectors.

8H4·3   Wilcoxon Test of Clearance (4) for Reported Nonresidential
Burglaries by Sectors.

TABLE 8H1·1

Wilcoxon Test of Clearance (1) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−37	29		
C	0	−25	41		
G	0	−13	53		
D	0	−51	15		
Q	0	−40	26		
U	0	−19	47		
K	0	−37	29		
W	0	−38	28		
R·	0	−36	30		
N	0	−18	48		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H1·2

Wilcoxon Test of Clearance (1) - Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B	0	-44	22		
C	0	-29	37		
G	0	-17	49		
D	3	-21	15		
Q	0	-25	41		
U	0	-24	42		
K	3	-10	26		
W	0	-43	23		
R	0	-42	24		
N	2	-8	37	10	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8H1·3

Wilcoxon Test of Clearance (1) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−28	38		
C	1	−15	40		
G	0	−27	39		
D	0	−48	18		
Q	1	−42	13		
U	1	−13	42		
K	0	−30	36		
W	1	−24	31		
R	1	−26	29		
N	3	−15	21		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H2·1

Wilcoxon Test of Clearance (2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−56	10	5	Significant increase
C	2	−20	25		
G	0	−58	8	5	Significant increase
D	6	−11	4		
Q	1	−40	15		
U	0	−19	47		
K	5	−13	8		
W	0	−62	4	5	Significant increase
R	0	−58	8	5	Significant increase
N	0	−21	45		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H2·2

Wilcoxon Test of Clearance (2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−52	14	10	Significant increase
C	3	−12	24		
G	0	−60	6	5	Significant increase
D	10	−1	0		
Q	1	−35	20		
U	2	−15	30		
K	9	−3	0		
W	1	−49	6	5	Significant increase
R	0	−59	7	5	Significant increase
N	0	−19	47		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H2·3

Wilcoxon Test of Clearance (2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	2	−32	13		
C	6	−13	2		
G	2	−36	9		
D	7	−5	5		
Q	6	−13	2		
U	4	−9	19		
K	5	−11	10		
W	4	−28	0	5	Significant increase
R	2	−38	7		
N	4	−23	5		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H3.1

Wilcoxon Test of Clearance (3) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−19	47		
C	0	−18	48		
G	2	−26	19		
D	4	−20	8		
Q	0	−45	21		
U	1	−8	47	5	Significant decrease
K	5	−18	3		
W	3	−30	6	10	Significant increase
R	0	−33	33		
N	1	−7	48	5	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8H3·2

Wilcoxon Test of Clearance (3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	1	−17	38		
C	1	−16	39		
G	2	−25	20		
D	8	−3	3		
Q	0	−44	22		
U	3	−3	33	5	Significant decrease
K	7	−3	7		
W	3	−26	10		
R	0	−34	32		
N	1	−9	46	10	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8H3·3

Wilcoxon Test of Clearance (3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	6	−4	11		
C	4	0	28	5	Significant decrease
G	6	−7	8		
D	6	−9.5	5.5		
Q	9	−2	1		
U	3	−17	19		
K	6	−11	4		
W	6	−8	7		
R	6	0	15	10	Significant decrease
N	5	−4.5	16.5		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H4·1

Wilcoxon Test of Clearance (4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B	0	−23	43		
C	0	−5	61	5	Significant decrease
G	0	−10	56	5	Significant decrease
D	4	−8	20		
Q	0	−37	29		
U	0	−33	33		
K	3	−5	31		
W	0	−32	34		
R	0	−25	41		
N	0	−24	42		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H4·2·

Wilcoxon Test of Clearance (4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−20	46		
C	0	−3	63	5	Significant decrease
G	0	−9	57	5	Significant decrease
D	11	0	0		
Q	3	−30	6	10	Significant increase
U	0	−23	43		
K	6	−4	11		
W	0	−48	18		
R	0	−16	50		
N	0	−18	48		
CTW*					Not applicable

*CTW = Citywide

TABLE 8H4·3

Wilcoxon Test of Clearance (4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	1	−34	21		
C	2	−19	26		
G	1	−19	36		
D	4	−10	18		
Q	2	−19	26		
U	2	−29	16		
K	4	−2	26	5	Significant decrease
W	0	−25	41		
R	2	−18	27		
N	1	−38	17		
CTW*					Not applicable

*CTW = Citywide

I.   Analyses of Combination of Clearance

8I1·1   Wilcoxon Test of Clearance (1) and (2) for Reported
        Total Burglaries by Sectors.

8I1·2   Wilcoxon Test of Clearance (1) and (2) for Reported
        Residential Burglaries by Sectors.

8I1·3   Wilcoxon Test of Clearance (1) and (2) for Reported
        Nonresidential Burglaries by Sectors.

8I2·1   Wilcoxon Test of Clearance (3) and (4) for Reported
        Total Burglaries by Sectors.

8I2·2   Wilcoxon Test of Clearance (3) and (4) for Reported
        Residential Burglaries by Sectors.

8I2·3   Wilcoxon Test of Clearance (3) and (4) for Reported
        Nonresidential Burglaries by Sectors.

8I3·1   Wilcoxon Test of Clearance (1) and (3) for Reported
        Total Burglaries by Sectors.

8I3·2   Wilcoxon Test of Clearance (1) and (3) for Reported
        Residential Burglaries by Sectors.

8I3·3   Wilcoxon Test of Clearance (1) and (3) for Reported
        Nonresidential Burglaries by Sectors.

8I4·1   Wilcoxon Test of Clearance (2) and (4) for Reported
        Total Burglaries by Sectors.

8I4·2   Wilcoxon Test of Clearance (2) and (4) for Reported
        Residential Burglaries by Sectors.

8I4·3   Wilcoxon Test of Clearance (2) and (4) for Reported
        Nonresidential Burglaries by Sectors.

TABLE 8I1·1

Wilcoxon Test of Clearance (1)&(2) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−43	23		
C	0	−9	57	5	Significant decrease
G	0	−17	49		
D	0	−49	17		
Q	0	−33	33		
U	0	−10	56	5	Significant decrease
K	0	−33	33		
W	0	−53	13	10	Significant increase
R	0	−40	26		
N	0	−21	45		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I1·2

Wilcoxon Test of Clearance (1)&(2) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	REMARKS
B	0	−50	16		
C	0	−13	53	10	Significant decrease
G	0	−19	47		
D	2	−27	18		
Q	0	−24	42		
U	0	−15	51		
K	1	−21	34		
W	0	−54	12	10	Significant decrease
R	0	−41	25		
N	0	−23	43		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I1.3

Wilcoxon Test of Clearance (1)&(2) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	-29	37		
C	0	-16	50		
G	0	-28	38		
D	0	-40	26		
Q	0	-57	9	5	Significant increase
U	0	-10	56	5	Significant decrease
K	0	-29	37		
W	1	-22	33		
R	0	-38	28		
N	1	-29	26		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I2.1

Wilcoxon Test of Clearance (3)&(4) - Reported Total Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
B	0	-18	48		
C	0	-6	60	5	Significant decrease
G	0	-20	46		
D	2	-25	20		
Q	0	-43	23		
U	0	-15	51		
K	1	-21	34		
W	0	-45	21		
R	0	-37	29		
N	0	-9	57	5	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8I2·2

Wilcoxon Test of Clearance (3)&(4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−14	52		
C	0	−5	61	5	Significant increase
G	0	−22	44		
D	8	−3	3		
Q	0	−52	14	10	Significant increase
U	0	−17	49		
K	4	−7	21		
W	0	−59	7	5	Significant increase
R	0	−26	40		
N	0	−13	53	10	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8I2·3

Wilcoxon Test of Clearance (3)&(4) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	1	−23	32		
C	0	−22	44		
G	0	−29	37		
D	2	−23	22		
Q	1	−26	29		
U	1	21	34		
K	1	−21	34		
W	0	−35	31		
R	1	−22	33		
N	0	−30	36		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I3·1

Wilcoxon Test of Clearance (1)&(3) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−24	42		
C	0	−16	50		
G	0	−28	38		
D	0	−53	13	10	Significant increase
Q	0	−47	19		
U	0	−11	55	5	Significant decrease
K	0	−49	17		
W	0	−54	12	10	Significant increase
R	0	−51	15		
N	0	−4	62	5	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8I3·2

Wilcoxon Test of Clearance (1)&(3) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	−33	33		
C	0	−22	44		
G	0	−23	43		
D	2	−23	22		
Q	0	−40	26		
U	0	−21	45		
K	3	−10	26		
W	0	−52	14		
R	0	−44	22		
N	0	−9	57	5	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8I3·3

Wilcoxon Test of Clearance (1)&(3) – Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−24	42		
C	0	−20	46		
G	0	−41	25		
D	0	−52	14		
Q	1	−46	9	10	Significant increase
U	0	−7	59	5	Significant decrease
K	0	−43	23		
W	0	−32	34		
R	1	−35	20		
N	1	−3	52	5	Significant decrease
CTW*					Not applicable

*CTW = Citywide

TABLE 8I4·1

Wilcoxon Test of Clearance (2)&(4) – Reported Total Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−28	38		
C	0	−6	60	5	Significant decrease
G	0	−29	37		
D	2	−22	23		
Q	0	−42	24		
U	0	−16	50		
K	1	−20	35		
W	0	−44	22		
R	0	−33	33		
N	0.	−22	44		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I4·2

Wilcoxon Test of Clearance (2)&(4) – Reported Residential Burglaries

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	-29	37		
C	0	-4	62	5	Significant decrease
G	0	-31	35		
D	10	-1	0		
Q	0	-47	19		
U	0	-15	51		
K	5	-12	9		
W	0	-50	16		
R	0	-35	31		
N	0	-15	51		
CTW*					Not applicable

*CTW = Citywide

TABLE 8I4·3

Wilcoxon Test of Clearance (2)&(4) - Reported Nonresidential Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−29	37		
C	1	−23	32		
G	0	−29	37		
D	2	−19	26		
Q	2	−20	25		
U	1	−26	29		
K	2	−13	32		
W	0	−26	40		
R	0	−36	30		
N	1	−49	6		
CTW*					Not applicable

*CTW = Citywide

Appendix VI Tables of Wilcoxon Test Results - Census Tract

A. Numbers of Reported Burglaries
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

B. Relative Ratios
    1. Total Burglaries
    2. Residential Burglaries
    3. Nonresidential Burglaries

TABLE 9A1

Wilcoxon Tests of the Number of Reported Total Burglaries in the Testing Census Tracts

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
090	0	−20.5	57.5		
091	1	−29.5	36.5		
092	2	−28.6	26.5		
100	1	−22.5	43.5		
101	2	−27.5	27.5		
110	0	−14.5	63.5	10	Significant decrease
111	0	−34	44		
112	0	−41.5	36.5		

TABLE 9A2

Wilcoxon Tests of the Number of Reported Residential Burglaries in the Testing Census Tracts

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	REMARKS
090	1	−18.5	47.5		
091	1	−28.5	37.5		
092	0	−42.5	23.5		
100	2	−19.5	35.5		
101	0	−45.5	32.5		
110	0	−22.0	56.0		
111	1	−23.5	42.5		
112	0	−33.5	44.5		

TABLE 9A3

Wilcoxon Tests of the Number of Reported Nonresidential Burglaries in the Testing Census Tracts

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
090	2	−16	39	10	Significant decrease
091	3	−21	24		
092	5	−2.5	25.5		
100	3	−16.5	22.5		
101	0	−17	61	10	Significant decrease
110	1	−22.5	43.5		
111	3	−35	10		
112	1	−29.5	36.5		

TABLE 9B1

Wilcoxon Test of the Ratio of the Reported Total Burglaries in Each Testing Census Tract to That of the Rest of the City Excluding Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
090	1	-10.0	56.0	5	Significant decrease
091	0	-28.5	49.5		
092	0	-34.5	43.5		
100	0	-15.0	63.0	10	Significant decrease
101	0	-27.0	51.0		
110	0	-3.0	75.0	5	Significant decrease
111	0	-19.5	58.5		
112	0	-32.0	46.0		

TABLE 9B2 .

Wilcoxon Test of the Ratio of the Number of Reported Residential Burglaries in Each Testing Census Tract to That of the Rest of the City Excluding Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
090	0	-18.0	60		
091	0	-24.5	53.5		
092	0	-35.5	42.5		
100	0	-16.5	61.5	10	Significant decrease
101	0	-29.5	36.5		
110	1	-3.0	63.0	5	Significant decrease
111	1	-10.5	55.5	5	Significant decrease
112	2	-19.5	35.5		

TABLE 9B3

Wilcoxon Test of the Ratio of the Number of Reported Nonresidential Burglaries in Each Testing Census Tract to That of the Rest of the City Excluding Testing Sectors

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
090	3	-11.0	34.0		
091	1	-27.0	39		
092	4	-3.0	33.0	5	Significant decrease
100	2	-21.0	34.0		
101	0	-16.0	62.0	10	Significant decrease
110	0	-28.5	49.5		
111	0	-42.5	35.5		
112	1	-28.5	37.5		

Appendix VII Tables of Wilcoxon Test Results – Other Part I Property Related Crimes

A. Robbery

B. Personal Larceny

C. Shoplift

D. Car Prowl

E. Theft of Auto Accessories

F. Bicycle Larceny

G. Building Larceny

H. Coin Operated Machine Larceny

I. Miscellaneous Larceny

J. Auto Theft

TABLE 10A

Wilcoxon Test of <u>Robbery</u>
<u>Burglary</u>

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−37	29		
C	0	−62	4	5	Significant increase
G	0	−51	15		
D	0	−27	39		
Q	0	−54	12	10	Significant increase
U	0	−44	22		
K	0	−22	44		
W	0	−4	62	5	Significant decrease
R	0	−48	18		
N	0	−35	31		
CTW*					Not Available

*CTW = Citywide

TABLE 10B

Wilcoxon Test of the Personal Larceny
Burglary

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	1	−30	25		
C	0	−46	20		
G	0	−44	22		
D	0	−30	36		
Q	0	−42	24		
U	0	−41	25		
K	0	−30	36		
W	0	−19	47		
R	0	−15	51		
N	0	−46	20		
CTW*					Not Available

*CTW = Citywide

TABLE 10C

Wilcoxon Test of Reported Total Number of Shoplift
Total Number of Burglaries

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−64	2	5	Significant increase
C	0	−40	26		
G	0	−43	23		
D	0	−38	28		
Q	0	−56	10	5	Significant increase
U	0	−58	8	5	Significant increase
K	0	−46	20		
W	0	−39	27		
R	0	−52	14		
N	0	0	66	5	The only sector with significant decrease
CTW*					Not Available

*CTW = Citywide

TABLE 10D

Wilcoxon Test of <u>Car Prowl</u>
Burglary

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	-38	28		
C	0	-47	19		
G	0	-33	33		
D	0	-1	65	5	Significant decrease
Q	0	-17	49		
U	0	-39	27		
K	0	-8	58	5	Significant decrease
W	0	-60	6		
R	0	-51	15		
N	0	-44	22		
CTW*					Not Available

*CTW = Citywide

TABLE 10E

Wilcoxon Test of Auto Accessories
Burglary

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	−29	36		
C	0	−25	41		
G	0	−33	33		
D	0	−4	62	5	Significant decrease
Q	0	−44	22		
U	0	−35	31		
K	0	−29	37		
W	0	−28	38		
R	0	−43	23		
N	0	−16	50		
CTW*					Not Available

*CTW = Citywide

TABLE 10F

Wilcoxon Test of Bicycle Larceny
Burglary

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	R E M A R K S
B	0	−28	38		
C	0	−39	27		
G	0	−32	34		
D	2	−33	12		
Q	0	−39	27		
U	0	−51	15		
K	0	−31	35		
W	0	−7	59	5	Significant decrease
R	0	−31	35		
N	0	−31	35		
CTW*					Not Available

*CTW = Citywide

TABLE 10G

Wilcoxon Test of <u>Total Building Larceny</u>
Total Burglary

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	−24	42		
C	0	−58	8	5	Significant increase
G	0	−48	18		
D	0	−33	33		
Q	0	−53	13	10	Significant increase
U	0	−36	30		
K	0	−29	37·		
W	0	−19	47		
R	0	−37	29		
N	0	−15	51		
CTW*					Not Available

*CTW = Citywide

TABLE 10H

Wilcoxon Test of <u>Coin Operated Machine Larceny</u>
Total Burglary

AREA	NO. OF ZERO DIFFER- ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI- CANT AT %	REMARKS
B	0	-38	28		
C	0	-25	41		
G	0	-37	29		
D	0	-8	58	5	Significant decrease
Q	0	-12	54	10	Significant decrease
U	0	-42	24		
K	0	-29	37		
W	3	-6	30	10	Significant decrease
R	1	-25	30		
N	2	-16	29		
CTW*					Not Available

*CTW = Citywide

TABLE 10I
Wilcoxon Test of Total Miscellaneous Larceny
Total Burglary

AREA	NO. OF ZERO DIFFERENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFICANT AT %	R E M A R K S
B	0	−14	52	10	Significant decrease
C	0	−30	36		
G	0	−35	31		
D	0	−30	36		
Q	0	−37	29		
U	0	−15	51		
K	0	−42	24		
W	0	−10	56	5	Significant decrease
R	0	−31	35		
N	0	−27	39		
CTW*					Not Available

*CTW = Citywide

TABLE 10J

Wilcoxon Test of Total Auto Theft
Total Burglary

AREA	NO. OF ZERO DIFFER-ENCES	NEGATIVE RANK SUM (INCREASE)	POSITIVE RANK SUM (DECREASE)	SIGNIFI-CANT AT %	R E M A R K S
B	0	-43	23		
C	0	-16	50		
G	0	-34	32		
D	0	-30	36		
Q	0	-54	12		
U	0	-28	38		
K	0	-38	28		
W	0	-14	52	10	Significant decrease
R	0	-41	25		
N	0	-38	28		
CTW*					Not Available

*CTW = Citywide

XIII BIBLIOGRAPHY

Box, George and Gwilym Jenkins, <u>Time Series Analysis: Forecasting and Control</u>, Holden Day, 1970.

Conover, W.J., <u>Pratical Nonparametric Statistics</u>, Prentice - Hall, 1971.

Dixon, Wilfred and Frank Massey Jr., <u>Introduction to Statistical Analysis</u>, McGraw Hill, 1957.

Rohlf, James and Robert Sokal, <u>Biometry</u>, W.H. Freeman and Company, 1969.

Siegel, Sidney, <u>Nonparametric Statistics for the Behavioral Sciences</u>, McGraw Hill, 1956.