JOINT HIGHWAY RESEARCH PROJECT

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COMPARATIVE TRAVEL PATTERNS
FROM FOUR WORK TRIP DATA SOURCES

Wing-Kwong Law

Final Report
COMPARATIVE TRAVEL PATTERNS FROM
FOUR WORK TRIP DATA SOURCES

B. Anna

TO: J. F. McLaughlin, Director   December 1, 1975
Joint Highway Research Project   Project: C-3--69B

FROM: H. L. Michael, Associate Director   File: 3-7-2
Joint Highway Research Project

The attached Final Report is on the HPR-1 (12) Part I Study titled "Urban Transportation Planning Process". This report is the final one on a part of this Study concerned with development of travel patterns of an urban area from work trips. The Report is titled "Comparative Travel Patterns from Four Work Trip Data Sources". The research has been conducted and the Report authored by Mr. King-Kwong Law, Graduate Instructor on our staff under the direction of Professor H. L. Michael.

The study compares internal urban travel data obtained from four work trip data sources: a standard home interview origin-destination study, a city directory, an employee survey through employers, and the 1970 Urban Transportation Planning Package. All are for one city, the Lafayette Indiana SMSA area. Unfortunately, the Census Package did not produce work trips on a traffic zone basis but to a census tract basis. When compared with the home-interview travel patterns, the Census package, however, gave the most similar results. Next in similarity was the employee data patterns and poorest was the city directory results. The practical differences between the origin-destination patterns and the Census patterns did not appear to be important. The differences in patterns between the home interviews and the employee data also appeared not to be important for transportation planning purposes. Additional research, however, is needed to provide more conclusive findings and verification.

The Report is presented as the Final Report in this long and many phased study. The many reports and findings in the Study have provided much information toward improvement of the urban transportation planning process, especially in small cities. This report is submitted as fulfillment of the approved objectives of the Study.

Copies of the Report will be forwarded for review, comment and similar acceptance to ISHC and FHWA.

Respectfully submitted,

Harold L. Michael

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Associate Director

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Final Report
COMPARATIVE TRAVEL PATTERNS FROM
FOUR WORK TRIP DATA SOURCES

by
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16. Abstract This research investigated the feasibility of using work trip data as the primary source of information to obtain travel patterns for urban transportation planning in small urban areas. Data was collected from four sources in Lafayette - West Lafayette (Indiana) SMSA: (1) the Greater Lafayette Area Transportation and Development Study's home-interview origin-destination survey; (2) an employee survey; (3) the Lafayette city directory; and (4) Bureau of the Census 1970 Urban Transportation Planning Package. Chi-square test and simple analysis of variance techniques were used in comparing the resultant trip tables from the latter three sources against those from the home-interview. In addition to traffic zone to traffic zone trip tables, traffic zone to census tract tables were also compared. It was found that there were significant statistical differences in all comparisons. However, the differences did not appear to be of practical importance between the census and the home-interview patterns. It was also concluded that the directory pattern showed significant statistical and practical differences from the home-interview pattern. Although the employee survey pattern showed statistical differences, it was not clear that these differences would be truly practical differences in transportation planning for small cities. Further research is recommended in the form of another comparative survey with more comprehensive sampling and data collection techniques.			
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CHAPTER I. OVERVIEW OF URBAN TRANSPORTATION PLANNING

According to Bureau of the Census (5)* reports, close to 75 percent of the United States population can be classified as urban in 1970. Furthermore, the 1970 census found that the greatest percentage change as to where people live was in the urban fringes of central cities of population range of 25,000 to 100,000. Along with increased population growth and such dispersion comes greater transportation demands.

Urban transportation or circulation is itself highly complex, but considered in its proper perspective as an integral part of the total function of the urban body, the ramifications of intracity movement are nearly beyond conceivable complexity. Problems exist in almost every urban transportation scene. The solution of existing problems and prevention of their recurrence are the objectives of what is called urban transportation planning. Properly implemented as a concordant phase of an overall comprehensive urban planning program, the resultant planned transportation systems can be a major ingredient in the realization of broader social, economical and environmental objectives of urban areas.

Urban transportation planning activity in the United States has increased significantly in the past two decades since the Detroit and Chicago studies undertaken during the mid-50's. People realize the need to solve current and future problems of person and goods movements in the ever-growing urban areas. The immediate need for planning recommend-

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* Number in bracket refers to number in reference list.

ations to guide impending development and at the same time to satisfy legislative requirements has become the prime concern of transportation planning organizations. The result of this expediency has often been a failure to indulge in sufficient introspective examination of various practices, methodologies and techniques currently employed in transportation planning.

Work was begun in the late 1940's to develop a more valid forecasting approach than the traditional technique of factoring existing traffic volumes. This work recognized the inability of such projections to cope with the problem of forecasting urban traffic volumes. The new approach considered travel rather than traffic. It looked at traffic volume as a part of the universe of all trips between an origin and a destination for a specific purpose. Such travel between areas could be much more reliably predicted for a future time than could traffic volumes on the streets connecting them because there was a sound basis for growth projection.

It was the development of this approach that led to the planning requirements of the Federal Aid Highway Act of 1962 (50). This legislation requires that all new roads and streets for any urban area with population of 50,000 or more must be developed as part of a comprehensive planning program. Such a program must account for land use and economic activities and their trip generation functions. It must predict future land use and thereby develop travel patterns for location of transportation facilities to cope with predicted traffic volumes.

This approach, usually termed Urban Transportation Planning (UTP), examines transportation systems in their proper perspective as an integral part of urban activity. It considers non-highway modes in order to attain

balanced transportation system. It provides more than a mere projection of current traffic patterns; it permits modification of historic trends due to variations in development policies.

UTP is based on surveys of current and historic patterns of population, land use, economy and travel within the study area. These elements are isolated by thorough analysis of pertinent survey data. The growth and development characteristics of those elements which influence travel in that community are then established. These somewhat predictable elements, or urban activity parameters, are then projected or predicted for some future target date. Based on the future levels of the chosen elements, future travel patterns are developed which are then used in the design phase. This procedure takes advantage of the usually reliable prediction characteristics of basic elements for which growth patterns are known and stable. The relation between these basic elements and travel patterns in the survey year is used to determine travel patterns in the target year.

The execution of the UTP process is quite intricate. Figure 1 shows a general flow diagram of the process. There are five kinds of surveys; namely, population, economic activity, land use, travel and transportation system. The latter two are surveyed in depth to establish travel characteristics.

In travel forecasting activity, the procedure may be further elaborated into several phases. Urban travel patterns in the base and design years are a function of: (1) the pattern of land use, (2) the various social and economic characteristics of the population, (3) the travel behavior characteristics of the population and (4) the type and extent of the present and planned transportation system facilities. These

FIGURE 1 – THE URBAN TRANSPORTION PLANNING PROCESS

Source: Ref. (13)

URBAN TRAVEL FORECASTING PROCESS

Figure 2. Urban Travel Forecasting Process (Source: Ref. (13))

attributes are used to provide quantitative information on the travel demands generated by alternatives of land use and transportation system plans.

The planning process may be broken down into four technical phases : (1) inventories, (2) analysis of existing conditions and calibration of forecasting models, (3) the forecasting of future conditions, and (4) system analysis of future transportation systems. Figure 2 gives an overall picture of these four phases of the urban travel forecasting process.

CHAPTER II. LITERATURE REVIEW ON JOURNEY TO WORK

There have been numerous studies pertaining to the journey to work and its relationship with other socio-economic factors and urban travel characteristics. The review here only describes those closely related to travel pattern development techniques in the urban transportation planning process.

Parsonson (36) has been developing a peak hour traffic model for the Georgia Highway Department. The tentative model developed utilized the primary work trip reported in the 1970 census and peak hour ground counts obtained at the time of the census. An interim report shows a regression approach to utilize the data available for certain urban areas in Georgia.

Shunk (43) has used analysis of variance techniques to show that work trips are indeed representative of all purpose, 24-hour trips. He extracted the work trips from the trip report file of the Indianapolis Regional Transportation Study (IRTADS). As a result of a series of analysis of variance models, Shunk concludes that: (1) the travel patterns of home-based work trips represent an excellent approximation to the travel patterns of trips of all purposes for peak hour or total daily travel, (2) new survey procedures emphasizing work trip utilization should be tested in various-sized urban areas, (3) future research should be undertaken to reaffirm his findings and develop procedures in utilizing work trip data from various data sources.

Ambrister (2) did a research entitled "Use of Primary Work Trips to Derive Travel Patterns". He also used the 1970 census data for some Texas urban areas and come up with several regression equations showing relationship between work and total trips.

Prigagine (39) investigated the mode of transport used in journeys to work, the reasons behind the selection of transport modes, and the satisfaction given by the mode selected. A public opinion poll was conducted.

Talvitie (47) built an econometric model for the downtown work trip in the Chicago area. The models are designed to directly predict zone to zone trips by mode, and to provide estimates on the elasticity of travel demand with respect to several transportation system variables. Bus and rail travel demand models were estimated; demand models for auto trips could not be estimated due to lack of auto trip data. The number of interzonal trips to and from work was postulated to be dependent on three sets of variables: (1) travel time and travel cost, or their components on each mode; (2) size and socio-economic characteristics of the labor force in each traffic origin zone, and (3) the number of jobs in the destination traffic zone. The forecasting accuracy of the models was also studied.

Desimore (11) studied the impact of the four-day work week on total travel, peak period travel and safety. He shows that the greatest effect is on peak period travel. A freeway bottleneck and a major activity center were examined as case studies.

A Highway Research Board Special Report (17) was devoted to the utilization of census data in urban transportation planning. Daly (10) described how the work trip information was collected and reported in

the 1970 Census of Housing and Population.

Robertson (40) showed that the cost for data collection, analysis and model development was about one dollar per resident of the area under consideration. He also described the Federal Highway Administration program package for obtaining a summary tape of several tabulations that will provide less expensive zonal data needed by urban studies.

Shunk (44) discussed an approach using work trip data. Based on his previous study findings, he developed a theory - and tested it with good results - that if a good basic major street system is provided, it will provide travel service for trips of all purposes. The use of census work trip data for small area travel forecasting, including mode selection is described briefly.

Wickstrom (54) described an approach for using census data in urban transit planning. He showed that data from the 1970 census can be used to identify areas where transit service is needed to serve captive transit users.

Mouchahoir (30) investigated the social, economic, and travel variables connected with employees of twenty large Atlanta work centers. A mathematical model was attempted having causal and functional characteristics providing an analysis of existing conditions and calibration of forecasting techniques. The study concluded that factor analysis, a multivariate statistical technique, can be used to determine the inter-relationship and degree of association between variables related to employees and their place of work. After a component statistical analysis, a model was derived showing the number of work trips attracted to the work centers depends on the floor space of the center, the average occupational level and the average distance of travel of the employees.

Kassoff (20) conducted a study using the 1963 New York Metropolitan Transportation Study data to quantify certain aspects of the people-job-transportation relationships. The journey to work characteristics according to income classification is described.

Voorhees (53) found that urban travel as measured by the length of work trip to be highly related to the structure of a city, as reflected by the time distribution of job opportunities within a metropolitan area.

Kassoff(21) developed an empirical model for the evaluation of the main socioeconomic determinants of modal choice for the journey to work, with particular reference to medium-sized cities.

Hutchinson (18) proposed a simplified and cheaper travel prediction technique for medium and smaller-sized urban areas. It is suggested that a knowledge of the spatial pattern of the peak hour work trips is adequate for transport network planning. Information is provided which allows the gravity model to be calibrated synthetically. He claimed that the adoption of the procedures could lead to savings of upto 50 percent in a typical transportation study.

Manarolla (27) built a general operational simulation model for a regional area. A trip to work submodule seeks to find, for every population unit, a route selection pattern that is based on realistic criteria. Model costs to the user are employed in a game theory setting that employs travel time and convenience as additional criteria for decision making.

There are, of course, a whole lot of studies pertaining to the journey to work. A classic example is thesis by Liepmann (26), a social scientist, who detailed the descriptive characteristics of the work trip in British cities.

It is clear that most of the studies in this area do not provide a quantitative comparison of the travel patterns as developed from various work trip data sources; neither is a systematic procedure to utilize work trip information in transportation planning provided. This research reported here was aimed to accomplish these objectives.

CHAPTER III. DATA REQUIREMENTS AND COLLECTION TECHNIQUES FOR URBAN TRANSPORTATION STUDIES

Urban transportation studies have collected substantial data on land use, travel, transportation facilities and socioeconomic characteristics. It has been alleged that the collection of these data is excessively costly and time consuming. In view of the evolving nature of the transportation planning process, a reexamination of data requirements and collection techniques is needed.

Transportation studies do in fact need extensive sets of primary and secondary data. Typically, eight major primary surveys are taken, but some studies may take as many as twenty plus.

The eight typical primary surveys are:

- (1) socioeconomic and origin-destination survey by home-interview;
- (2) truck - taxi origin-destination survey;
- (3) roadside (external) origin-destination survey;
- (4) arterial link (highways and streets) inventory;
- (5) transit link inventory;
- (6) speed on arterial network;
- (7) traffic volumes; and
- (8) land use measurements.

In general, primary data files have been well used by transportation studies. According to a study performed by Creighton, Hamburg and Associates (9), the costs of data collection of five representative transport-

ation studies averaged 52 cents per capita (mid-60 money) or approximately 31 percent of total study costs. The time required to collect and process data is long, averaging at least two years. New methods to speed up data collection, especially data processing, are badly needed. Experience also indicates that a great deal of time and money have been spent by many study agencies recollecting the same data. For example, vehicle operating costs, travel time by different urban street types, socioeconomic data etc. already often existed in secondary sources.

The prime objective of this research was to find statistically-sound alternative ways to supplement or replace the traditional travel survey methods. The main concern of this study was the conventional home-interview origin-destination survey, since in most cases, it is the most costly and time-consuming part of the overall data collection process.

There is a variety of techniques for collecting origin-destination data, most of which are effective only for a particular type of travel. Consequently, most transportation studies have to employ a combination of techniques to sample the universe of travel. The established techniques include:

- (1) the home-interview survey;
- (2) the truck-taxi or commercial vehicle survey;
- (3) the roadside survey;
- (4) the telephone internal area survey;
- (5) the mail-back internal area survey;
- (6) the employee survey; and
- (7) the license-plate survey for central business districts or major trip generation centers.

Variations on the foregoing include the parking-lot or curb-parking interview and the panel survey. The parking lot interview is especially useful in CBD planning, while the panel survey is designed especially for time-series studies.

Techniques of data collection, some of which have not been broadly used, on which attention was concentrated in this research, included the 1970 census work trip data, the mail-back survey, the licence-plate traffic survey, the employee survey, the city directory survey, the on-board transit survey, and the automatic vehicle monitoring systems.

(1) Census Work Trip Data

The 1970 census obtained origin-destination data on the work trips of 15 percent of the households in urbanized areas. Such data, if obtained regularly every ten years, would be of substantial benefit to transportation planners. The 1970 census features a questionnaire that was handled by a mail-out, mail-back procedure in most urban areas. The same questions were asked, regardless of whether the census was conducted by mail or by house-to-house canvass.

Eighty percent of the questionnaires were of a short form obtaining only population characteristics (such as age, family composition, sex and race) and basic data on housing. Of those answering the long form, 75 percent responded to questions on work trips; the remaining 25 percent answered a different set of questions not covering work trips. The following information was obtained from those receiving the work trip form:

1. Automobile ownership, in four categories:

- a. no automobile,

- b. one automobile,
  - c. two automobiles,
  - d. three or more automobiles.
2. Address of place of employment.
3. Mode of travel to work, in nine categories:
- a. driver, private auto,
  - b. passenger, private auto,
  - c. bus or street car,
  - d. subway or elevated,
  - e. railroad,
  - f. taxicab,
  - g. walked only,
  - h. worked at home,
  - i. other means (specify).

The foregoing data were obtained for all persons in a household who were 15 years of age and older and were making work trips. When residence addresses of work trips are paired with employment addresses, a 15 percent sample of all work trip origins and destinations is available, by mode of travel. These data are valuable because they can be correlated with population characteristics, car ownership, income and housing data.

Many advantages result from having such data. First, the data can generally be coded to an extremely fine geographic detail, using the DIME system which is available for most urban areas. Second, the data are at a relatively high sampling rate (15 percent of all households) which will be helpful when dealing with transit, especially in populous cities. Third, the census will be obtained on a continuing basis, thus providing time-series data which will be invaluable in the continuing

planning process. Fourth, the data are uniform on a nationwide basis.

There are a few disadvantages to the 1970 census work trip survey. Because only work trips were obtained, only about 40 percent of all trips and about 60 percent of peak-hour trips were recorded. Second, the time of day when these trips were made is not known, and hence the proportion of trips made in the peak hour is uncertain. Third, the year of data collection may not coincide with the needs of transportation planners.

Nevertheless, the census work trip files will inevitably become a major source of data for transportation studies. How these data might be used in the transportation planning process is one of the main concerns of this study.

(2) The Mail-back Survey

Mail surveys to collect origin-destination data have been used in the past. A recent test in New Haven, Connecticut with Census Use Study sent 2,400 mail-out, mail-back origin-destination survey forms. These were controlled by 400 home interviews. Of the first mailing, 36 percent were returned. On the second mailing the total returns reached 49 percent. A follow-up telephone survey to the non-responses gave an additional 37 percent in returns. The remaining 14 percent were contacted through home interviews.

(3) License-plate Traffic Survey

The license-plate traffic survey is designed to replace the traditional roadside O-D survey. A movie camera may be used to photograph license plates of passing vehicles. Questionnaires are then mailed to the vehicle owners requesting O-D data. This survey appears to be use-

ful for determining trips between zones. However, much care in the survey questions is needed if dependable trip purpose data is to be obtained.

(4) The Employee Survey

In this technique, interviews are made with the personnel manager or whoever is in charge of employee records at an employer's office. This kind of survey has the advantage of obtaining more information of individual trips from one visit by an interviewer. The major disadvantage is that some major employers keep a tight confidentiality policy on their employee records which could result in great deficiency in the data needed.

(5) The City Directory Survey

Some publishers, notably R. L. Polk Co., publish city directories for major urban areas periodically. They send field survey teams to collect changed data and merge them into their basic city files. The directories give employment status of city individuals and their home addresses. Therefore, it is a convenient way to obtain work-travel patterns by coding the home and work places into traffic zones. Unfortunately, these directories contain a lot of errors.

(6) The On-board Transit Survey

This is a special survey to investigate the transit rider's travel patterns. It must be integrated into some other survey in order to obtain overall travel patterns by all modes.

(7) Automatic Vehicle Monitors

A new group of data collection systems being developed are automatic vehicle monitors (AVM). These systems are designed to locate a set of moving vehicles within a given area on a real-time basis. Most such systems have not yet reached the prototype stage.

In this study, three of the fore-mentioned techniques were used, namely, census, employee survey, and city directory. These three sources of work trip data were expected to be more economical than the conventional home-interview or other complex surveys.

As work travel patterns are good indicators of overall travel patterns, these less time-consuming and less expensive data collection techniques should have a promising future in small urban area transportation planning if they provide sound travel data. The argument is especially valid in the continuing planning process, since most urban areas, big or small, lack the money and personnel to collect updated data by traditional methods. Work trip data, obtained by an easier process, would be a better buy in terms of collection and analysis cost and efficiency. The following chapters present a comparative analysis of the resultant travel patterns from work trip data collected in the Lafayette SMSA.

CHAPTER IV. USES OF CENSUS AND OTHER WORK TRAVEL SURVEY DATA

According to research finding from Shunk (45) and others, the travel patterns of home-based work trips represent an excellent approximation to the travel patterns of trips of all purposes for both peak hour and total daily travel. Moreover, the importance of the work and peak hour portions of total urban travel has been underscored in many transportation studies. In recent years, therefore, more emphasis has been placed on work travel patterns by transportation researchers. In response to requests from many urban transportation researchers and organizations, the Bureau of the Census decided to collect sample place-of-work data for all urbanized areas during the 1970 Census of Population and Housing.

The Federal Highway Administration (FHWA) submitted data tabulation specifications to the Census Bureau for the compilation of both socioeconomic and journey to work data from 15- and 20-percent sample data for traffic zones in Standard Metropolitan Statistical Areas (SMSA's). These standardized tabulations are referred to as the 1970 Census Urban Transportation Package, or more commonly referred to as the Census Package. It was designed to provide a more common data base for transportation studies in the country and reduce data collection and processing costs.

The Census Package consists of four parts, as follows:

1. Part One - basic socioeconomic characteristics of the population by traffic zone of residence;

2. Part Two - urbanized areawide characteristics of population and work trips;
3. Part Three - employment characteristics by traffic zone of work;
4. Part Four - a table of work trips by zone of residence, zone of work, and mode of travel.

According to special report from the Institute of Traffic Engineers (19), the following were suggested when using the Census data in transportation planning.

(1) Model Validation

All projection forecasts should be based upon travel models which are calibrated to the base year data using appropriate independent variables which are then estimated for some future year and inserted in the travel model. In order to establish the validity of such models, one should be able to reproduce the travel demand for an intermediate year, for which data are available, between the base and forecast years. For many areas which had a base year in the 1960's, use of the 1970 census data provides an intermediate year by which such validation may be carried out.

For instance, the 1970 census can be used to verify the distribution of work trips. The census included for a 15 percent sample of households, questions on the journey to work of all members residing in those quarters. The information included both the location of the work site and the mode of travel. For those planning agencies which use a trip purpose distribution model, the 1970 journey to work information can be used to estimate a new distribution function (for instance, F-factors in the gravity model) and this result can be compared with the base year function

for home-based work trips. Note that journey-to-work trips from the 1970 census may be considered representative of journeys-from-work. Thus, doubling the journey-to-work file will yield a file which is representative of home-based work travel. Similarly, the model can be used to project 1970 work trip interchanges and these results compared with the census journey to work interchanges.

Since the 1970 census recorded the travel mode on these same trips, the modal split portion of the travel model can also be validated.

(2) Surveillance Information

Since the census furnishes the only legal and reliable population estimate, it is a common practice for planning agencies to update their population forecasts based upon some surveillance function of the census, for example, birth rate, cohort distribution, household size, etc.

(3) Inputs for Updating Data

Since transportation planning is an on-going process, it must be emphasized that, once the initial functional plans have been prepared, maintenance of a current data base is a very important task of a planning agency. The 1970 census is one of the most economical and readily available sources of information for use in maintaining a current data base for the continuing planning process.

The ITE report also gives two case study reports on use of the Package. The Wilmington (Delaware) Study was one of the first urban areas to obtain and use the Package. Like most early transportation studies, Wilmington developed its models to predict only impacts that were highway related. A reevaluation of planning priorities is making

the Wilmington planning agency more aware of the need to predict the people-oriented variables. They used the Package to:

- (1) develop new person trip generation equations different from original 1964 O-D study;
- (2) update 1964 base year data to 1970;
- (3) evaluate models by comparing 1970 predictions with 1970 observations;
- (4) develop modal split models using 1970 socioeconomic data.

They reported many shortcomings of the Package, the major ones are:

- (1) Employment data for those working outside the SMSA is not provided but might be obtained through a special request of the census;
- (2) For population and dwelling units, the data is sample data and is therefore subject to expansion error. Thus, these data and other sampled household characteristics may differ from results of home-interview with different sample size;
- (3) The area geographic accuracy for employment coding is inadequate. In other words - too much emphasis was given to coding by ZIP code;
- (4) Part 4 of the Package, the work trip table is virtually useless for planning because the attraction end of the trip is denoted as being in a location other than actuality in approximately 45 percent of the cases.

These comments sound pessimistic; however, the Package did provide useful data for the Wilmington Study. It provided a wealth of checkpoint data at a reasonable price.

Another case study was located in Erie (Pennsylvania). The Erie

Area Transportation Study used the Package to validate previously developed travel forecasting models to determine if these models could be used to forecast future travel. They developed zonal regression equations to forecast vehicle trip generation for five trip purposes. The home-based work trip generation was used in evaluating the ability of travel forecasting. Part 1 and Part 3 of the Census Package were used for this purpose.

The Erie Study reached almost the same conclusions about the census data as did Wilmington, that there were difficulties in applying census work travel information.

Armbrister (2) proposed the use of primary work trips as estimators of urban travel patterns. The Abilene (Texas) urban area was examined to determine the correlation existing between primary work trips and trips for all purposes. Each of these trip types was assigned to the existing network on an all-or-nothing basis. Regression models for Abilene were developed for the morning and afternoon peak-hours and for the 24-hour period to relate all-purpose volumes on a link to the number of work trips assigned to that link.

Parsonson (37) did a similar research study for the Columbia (South Carolina) area. He concluded that many urban areas should be able to relate the peak-hour, directional link volume counts with the census work trip table in calibrating a 1970 base year regression equation. These equations can then be used in forecasting future travel patterns. He also considered the potential of using census work trip data in conjunction with a small O-D sample survey.

Grecco (14) proposed other alternate work travel surveys directed at eliminating or supplementing the conventional home-interview survey.

If an all-purpose, peak hour analysis has been selected, the only revision to the home-interview survey will be elimination of all data but peak hour trips. Use of a work trip oriented approach probably would imply complete elimination of the home-interview. Further decisions on procedure rest on the extent of analysis desired. A home-based work oriented analysis requires only examination of employer records. The basic information to be obtained is the address of the employee's residence. Additional information regarding salary and family characteristics might also be obtained to refine the analysis and do special studies, providing necessary permission can be obtained.

If the analysis is to consider work trips during the entire day, all employees would be tabulated. A peak-hour orientation would require definition of the shift or reporting (or leaving) time of the workers, selecting only those which would necessarily be traveling during the peak hour chosen. Use of vehicle trips only, or a need to determine mode for all travelers might employ a procedure such as having employees place their time cards in different bins, according to their travel mode. An alternative approach would involve mode tabulation for each worker by either supervisors or survey personnel.

Decision to include all work trips in the analysis would require a more involved survey. In essence, each worker would have to be interviewed in some manner. The interviews could be conducted one at a time by either supervisors or study personnel. Alternatively the workers could be surveyed by use of a questionnaire. Direction in completion of the questionnaire could be given either locally by monitors or to the entire work force simultaneously by means of a public address system. The basic data sought would be the address of the origin and destination

of all trips made to or from the employment place. A contact survey could also obtain such information as mode, time and routing of the work trip as well as attitudes regarding work travel. Use of a questionnaire is less satisfactory than an interview, but it is also less expensive and time consuming. The balance in difficulty and cost would have to be weighed against utility.

Further extension of the proposed procedures might involve tabulation of arrivals at major shopping areas. Use of only home-based shopping trips by vehicles would merely require tabulation of license plates. This would include the usual parking study as an adjunct. Including all home-based shopping person trips would require tabulation of the number of persons arriving in each vehicle.

Depending on the survey procedure and approach selected, expansion of the survey results might be necessary in order to obtain true traffic volumes. Alternatively the expansion could be based on figures from micro-sample home-interviews or questionnaires sent home with workers interviewed in the principle survey. The results of the survey or the expansion, as applicable, would be assigned to the street network in the same manner as usual, followed by the appropriate capacity restraint iterations. Development of the distribution model would use work and residential trip ends developed from the survey in the same manner as usually employed. The model results would be expanded by the traffic volume factors.

Development of future travel potential would, of course, be based on economic base and population studies. These would be combined with the existing land use information to determine the future pattern of employment generating activities. After allocating employment and resid-

ential activities, the work trips would be distributed as before. The traffic expansion factors, modified to account for changes over time, would be used to obtain total volumes. Care would have to be given to incorporating, where necessary, changes in ratios implicitly assumed constant in this analysis, such as work travel as a proportion of total area travel.

Mouchahoir (33) studied the relationship of work trips to employment connected social and economic factors. Twenty work centers, having a large number of employees, were selected from the Atlanta (Georgia) metropolitan area. These employees were surveyed by mail. The following information was obtained: age, number of children, occupation, education level, number of years at work, home value or rent, lot size, distance from home to work, travel time and distance, personal and family incomes, and car ownership. Similarly, the following was obtained from the employers: number of trip attractions, floor areas, distance from central business district, and the assessed value of the work centers. Factor analysis and component analysis were then applied to identify employee and employer indicators. A trip attraction model was built by component regression analysis. The trips attracted were expressed as a function of average occupation level, average distance of travel between home and place of work, and floor space of work center. This is essentially a trip generation model at the other end with emphasis on work travel.

The research reported herein investigated three alternates of acquiring work travel information. In addition to an employee survey and the use of the 1970 Census Package, the city directory was also utilized for encoding home to work trip data.

The procedures of obtaining and preparing these data will be the subject of next chapter.

CHAPTER V. DATA PREPARATION PROCEDURES

The study area chosen for this study was the Lafayette - West Lafayette SMSA (Indiana). The decision to choose this area was due to convenience and availability of data from several sources for approximately the same period. This is essential to give meaningful comparisons of travel patterns later developed. Another important factor is that Lafayette, a small urban area, should be satisfactory for work trip oriented studies. It was believed that the work travel pattern survey procedures outlined in the previous chapter are more feasible to apply in small cities than in large metropolitan areas because of higher work to total trip ratio and better stability. Furthermore, it is more difficult for small urban areas to develop a comprehensive transportation plan than the larger cities, because of lack of personnel and funds. Moreover, most of the larger metropolitan areas had already completed their initial studies. Therefore, more emphasis should be given to small cities.

The Lafayette - West Lafayette SMSA (Tippecanoe County), located between Chicago and Indianapolis, covers 501 square miles with a population (1970) of 109,378. Purdue University, the largest employer, employed more than 10,000 people on the West Lafayette campus. Nearly 13,000 people were employed in manufacturing, with ALCOA (Aluminum Company of America) leading in employing 1,800 persons. Retail, commercial and service firms, including Purdue, employed more than 39,000 people. Another 3,000 people were employed in other non-farm and non-manufacturing

jobs. The agricultural industry employed 1,550 people.

Other major employers in 1970 were National Homes Corporation, 1,350; Eli Lilly Company, 1,000; St. Elizabeth Hospital, 950; Fairfield Manufacturing Company, 900; Duncan Electric Company, 800; Home Hospital, 800; Ross Gear of TRW, 800; Essex Wire, 700; Rostone Corporation, 500 and State Farm Insurance, 500.

The general characteristics of the population are shown in Appendix A. The Greater Lafayette Area Transportation and Development Study (GLATDS) was organized and staffed by the County Area Plan Commission. It conducted a home-interview origin-destination survey in late 1970. The raw internal trip data tape was obtained to extract work trip information. A work trip table (home-to-work only) was built and was expanded by the expansion factors determined earlier for each residence traffic zone (see Appendix K). This trip table was used as the base for comparisons with other work trip tables prepared from other data sources. The home-interview data was based on a 12.5 percent sample. Thus, an average expansion factor of 8 was applied if a completely random sample was drawn from the area with no other expansion information.

The 1971 edition of the Lafayette city directory published by R. L. Polk and Company (38) was also used to compile home-to-work trip table. The Polk directory lists "every" adult in the Lafayette - West Lafayette area alphabetically with their occupation, place of employment, address of residence, etc. A completely random sample of 12.5 percent was drawn from the directory. The addresses of residence and work were then coded into traffic zone numbers with the aid of a set of address manuals prepared by GLATDS. A typical page of the city directory is shown in Appendix B.

During the summer of 1973, a simple employee survey was carried out. An employer list (Appendix C) in Tippecanoe County for the fourth quarter of 1970 was obtained from the Area Plan Commission. This list was subdivided into five classes of employers, that is:

<u>Class</u>	<u>Employee Size</u>
E	1,000 or over
D	500 to 999
C	100 to 499
B	20 to 99
A	under 20

There were 3 E-Firms, 4 D-Firms, 45 C-Firms, 186 B-Firms, and 619 A-Firms. A letter from the Executive Director of the Area Plan Commission (Appendix D) was sent to each firm with over twenty employees requesting an interview with the personnel manager or the person in charge of the employee records. A stamped return postcard was also enclosed with the letter. The non-responses were followed up by telephone calls. A personal interview was arranged with each of the responsive firms, and the addresses of employees were collected. No other information was collected except shift times for large firm employees.

The initial survey response was good, except that a few stubborn firms refused to give "any" information. Most of the personnel managers were cooperative, some of them even asked about details of the study. Every effort was made to obtain 1970 addresses and 1970 employees. In many cases, this was unobtainable, and current addresses and employees were used. The Purdue employee information was taken from the 1970-71

Student-Staff Directory. The addresses were then coded into traffic zone numbers.

A computer program (PTT) was written (Appendix E) to build and tape trip tables. The SPSS (Statistical Package for Social Sciences) programs were also used in building cross tabulation tables.

The Census Package was ordered during the employee survey at an estimated cost of \$1,700. The Census Bureau sent a detailed census tract-block equivalency printout with blanks to be filled in with traffic zone numbers. The filled printout (Appendix F) was then processed by the Bureau and checked by the researcher for accuracy. The final processing took about two months. A tape and three formatted printed outputs containing the four parts mentioned earlier were obtained. After checking Parts 3 and 4, a major disappointment occurred; the zones of work were coded no finer than the census tract level. A call to the Census Bureau revealed that Lafayette was one of the 17 SMSAs which did not have work zone reported to block level, hence work trips could not be coded into traffic zones. Since nothing could be done to change it, tract comparisons of the work destination were necessary.

A program (TRACT) was then written to combine traffic zonal trips into census tract level trips for comparisons (Appendix G). Since the census tract boundaries did not coincide with traffic zones, an assumption was made to allocate zonal trips to census tracts. For example, Tract 001 is formed by Zones 18, 22 and 23, plus three-fourths of Zone 24 and one-fourth of Zone 21; thus, all trips to Zones 18, 22 and 23 were assigned to Tract 001, plus three-fourths of the trips to Zone 24 and one-fourth of the trips to Zone 21. This, of course, is not absolutely accurate, but it appears to be the most reasonable way to get trip interchanges (see Appendix J).

CHAPTER VI. COMPARATIVE ANALYSIS OF TRAVEL PATTERNS OF WORK TRIPS

The Chi-square test was used to test for differences between two origin-destination tables, each developed from a different survey. If it could be assumed that one of these was representative of the "true" origin-destination population, it might be labelled "theoretical" frequencies, and the other "observed" frequencies. Since no population was available, it was necessary then to use a 2 by k contingency table, making a test of the hypothesis that "the two tables were compiled from samples coming from the same population".

Suppose that the comparison was being made between the origin-destination tables obtained from the home-interview survey and from one of the three other surveys. There are k cells in each table, P_i trips in the i^{th} cell of the "other" survey, H_i trips in the corresponding home-interview cell, and S_i trips in both cells, i. e.,

$$S_i = P_i + H_i$$

"Cell"			
Method	<u>$i = 1, 2, \dots, i, \dots, k$</u>	Total	
"Other"	$P_1, P_2, \dots, P_i, \dots, P_k$	$P = \sum P_i$	
Home-interview	$H_1, H_2, \dots, H_i, \dots, H_k$	$H = \sum H_i$	
Total	$S_1, S_2, \dots, S_i, \dots, S_k$	$S = \sum S_i$	

If the null hypothesis were true, the same proportion of the total number of trips in each cell would be expected in the P cells as in the H cells. These proportions were compared by computing the expected frequencies

$$P_i = \frac{P}{S} S_i \quad \text{and} \quad H_i = \frac{H}{S} S_i$$

for the i^{th} cell, then, this test examined the square of the ratio of the discrepancies of these numbers from the expected cell size under the null hypothesis, weighed by the expected cell size, i. e.,

$$\frac{(P_i - \frac{P}{S} S_i)^2}{\frac{P}{S} S_i} + \frac{(H_i - \frac{H}{S} S_i)^2}{\frac{H}{S} S_i}$$

Throughout the entire table, the following variable has the Chi-square distribution with $(k - 1)(2 - 1)$ degrees of freedom,

$$\chi^2 = \sum_{i=1}^k \left[\frac{(P_i - \frac{P}{S} S_i)^2}{\frac{P}{S} S_i} + \frac{(H_i - \frac{H}{S} S_i)^2}{\frac{H}{S} S_i} \right]$$

By simple algebra:

$$\chi^2 = \frac{S^2}{PH} \sum_{i=1}^k \left[\frac{P_i^2}{S_i} \right] - SP/H$$

which is the formula used for computational purposes.

One further step had to be taken before the tests were made. When there are more than 30 degrees of freedom (as there was in this study),

the variable

$$t_c = \sqrt{2 \psi^2} - \sqrt{2 v - 1}$$

(where v = degrees of freedom) has to be a close approximation of the normal distribution with mean zero and standard deviation one. Thus values of t_c of more than the corresponding critical t -value would indicate that there is a significant difference among these proportions at the chosen level of significance. The policy was adopted that the hypothesis, the two tables came from the same population, would be rejected when t_c was greater than the corresponding critical t -value.

Before various tests could be made, one major question about comparative cell selection had to be decided. It is impractical to compare all of the cells in these origin-destination tables because large discrepancies, not of "practical" importance, are expected in low volume cells. It was therefore, necessary to devise some method of selecting cells that would provide an adequate comparison of the tables.

Since there was no "theoretical" basis in selecting the minimum cell frequency, three "practical" values were selected, i. e., 25, 50, and 100 trips. In order for a cell to be selected in any of the tables, it had to have had a volume equal to or greater than the specifications set forth above, in either the home-interview survey or the other survey. In other words, it was necessary for only one survey to report a cell volume which met the requirements in order to have that particular cell selected for comparison.

Since the Census Package reported destination zones only no finer than the census tract level, the home-interview trip table had to be transformed to the census format before they could be compared. This

raised a question of how to combine the zonal trips into 'tractal' trips. There were twenty six (26) tracts in the study area; not one of them had a perfect match with any combination of traffic zones (see Appendix J). An approximation was made by constructing an equivalency table. Appendix L shows the best that could be done to match tracts with traffic zones using the proportionary technique described in the last chapter.

There are 111 internal traffic zones in the Lafayette study area. Therefore, each trip table consisted of $111 \times 111 = 12,321$ cells. The maximum possible value of k is then 12,321 in the $2 \times k$ contingency table. Since there are a lot of empty cells in all tables, k is far less than the maximum value. A program (KSQ) was written to pick out those pairs of cells with frequency greater than 25, 50 or 100 trips in either one of the two tables and calculate "expected" contingency table frequencies and raw chi-square statistics (Appendix H). Since k was often greater than 30, a t approximation was also calculated for comparison with critical t rather than critical chi-squares.

Two zone-to-zone trip table and three zone-to-tract table comparisons were made. The calculated statistics and corresponding critical values are listed in Tables 1 through 5.

The hypothesis tested was that two frequency distributions (one from GLATDS, the other from one of the three work travel data sources) came from the same population which was unknown. The hypothesis was rejected if the calculated statistic was greater than the critical value at the given significance level. Two levels were chosen, that is, $\alpha = 0.01$ and $\alpha = 0.05$ for the one-tailed tests.

The detailed comparison outputs showing the expected cell frequencies are shown in Appendix I, where the first column corresponds to GLATDS cell

Table 1
Comparison of Zone-to-Zone Trip Table Cell Frequencies
GLATDS vs. Employee Survey

<u>Cut-off Value</u>	<u>Raw Chi-square</u>	<u>DF</u>	<u>t_{calc}</u>	<u>t_{.01}</u>	<u>t_{.05}</u>	<u>R1*</u>	<u>R2</u>
100	1183.55	98	34.69	2.36	2.63	25646	26432
50	1487.82	232	33.03	2.34	2.59	33820	34611
25	1936.04	513	30.21	2.33	2.58	42663	43151

*
R1 = Row total for GLATDS
R2 = Row total for other source

Table 2
Comparison of Zone-to-Zone Trip Table Cell Frequencies
GLATDS vs. Directory

<u>Cut-off Value</u>	<u>Raw Chi-square</u>	<u>DF</u>	<u>t_{calc}</u>	<u>t_{.01}</u>	<u>t_{.05}</u>	<u>R1</u>	<u>R2</u>
100	2815.07	104	60.65	2.36	2.63	26086	27461
50	3548.40	252	61.82	2.34	2.59	34524	36062
25	4630.31	547	63.17	2.33	2.58	43235	44292

Table 3

Comparison of Zone-to-Tract Trip Table Cell Frequencies
GLATDS vs. Census Package

<u>Cut-off Value</u>	<u>Raw Chi-square</u>	<u>DF</u>	<u>t_{calc}</u>	<u>t_{.01}</u>	<u>t_{.05}</u>	<u>R1</u>	<u>R2</u>
100	274.56	100	9.33	2.36	2.63	26803	25847
50	375.27	253	4.92	2.34	2.59	36827	35927
25	467.50	533	-2.06	2.33	2.58	45935	45094

Table 4

Comparison of Zone-to-Tract Trip Table Cell Frequencies
GLATDS vs. Employee Survey

<u>Cut-off Value</u>	<u>Raw Chi-square</u>	<u>DF</u>	<u>t_{calc}</u>	<u>t_{.01}</u>	<u>t_{.05}</u>	<u>R1</u>	<u>R2</u>
100	739.31	101	24.28	2.36	2.63	26858	27146
50	966.44	254	21.45	2.34	2.59	36853	36939
25	1229.22	542	16.67	2.33	2.58	46105	45794

Table 5

Comparison of Zone-to-Tract Trip Table Cell Frequencies
GLATDS vs. Directory

<u>Cut-off Value</u>	<u>Raw Chi-square</u>	<u>DF</u>	<u>t_{calc}</u>	<u>t_{.01}</u>	<u>t_{.05}</u>	<u>R1</u>	<u>R2</u>
100	1750.40	107	44.57	2.36	2.63	27306	27923
50	2278.49	267	44.42	2.34	2.59	37341	37675
25	2904.00	562	42.71	2.33	2.58	46458	46183

values, and second column corresponds to cell values from the other source.

The first two comparisons were made between the zone-to-zone trip tables of GLATDS versus those from the employee survey and directory. It is obvious that the calculated t -values are much larger than the critical t -values; therefore, obvious conclusions must be drawn that the two tables from other sources are (statistically at least) significantly different from the GLATDS' table. In other words, the hypothesis must be rejected in each case. The high t -values that are developed in the above comparisons cannot lead to any other conclusions.

The last three comparisons were made between the zone-to-tract trip tables of GLATDS versus those from the Census Package, employee survey and directory, respectively. Again, the calculated t -values developed in the three comparisons are still larger than the critical t -values. A quick check of these comparison results shows that the Census Package comparison shows the least t -values (in fact, in one case the calculated t is less than the critical t -value) compared with the other two comparisons. This fact might indicate that the travel pattern developed from the census data would be the closest to the "true" pattern (assuming the GLATDS survey as true) compared with those developed from the employee survey and from directory coding.

The result tables also reveal that for both comparisons the travel pattern developed from the employee survey is a better one than that from directory coding.

Although there are statistical differences in all (except one) cases of comparison, there are really two kinds of differences, namely, statistical and practical differences. Two statistics (computed from the data)

may differ by amounts much larger than their variances (a statistical difference), but may not be far enough apart to have any effect on the practical application of the data. The statistical differences have been evaluated, now it is necessary to evaluate the practical differences.

It is very difficult to determine whether two large sets of data have a practical difference. A quick check at the set of zone-to-tract comparisons with the set of zone-to-zone comparisons shows that the former set holds "better" results. This is because of the fact that the census tracts are aggregations of several zones which reduces variances between cells. It also reduces the amount of empty cells which contributed greatly to the calculated raw chi-square values. A point to be made here is that if we are satisfied with a larger zone definition for initial or continuing planning purposes, there might not be much practical difference between travel patterns developed by the various data sources. The last two columns of Tables 3 through 5 show that the estimates of total production of trips from the four data sources are very similar. The total trip results in Tables 1 and 2 show greater difference due to reasons mentioned before.

One way of checking practical difference is to look at the percentage differences of individual cell frequencies in the several trip tables (see Appendix I). Pairwise comparisons of the absolute and percentage differences in observed frequencies were run during the chi-square program runs. Details are shown in the last two columns of the comparison tables in Appendix I. Results are summarized in Table 6.

The average percentage difference between observed frequencies of GLATDS and the Census Package is about 12 percent; the respective figures for the employee survey are 19 percent (zone-to-tract) and 26 percent

Table 6
Pairwise Comparisons of Observed Frequencies
GLATDS vs. Other Sources

Comparison Reference	Cut-off Value	Average Diff.	Average % Difference	RMS [*] Error
GLATDS vs Empl. Survey (Zone-Zone)	100	69.4	27.6	106.24
	50	37.6	25.9	70.32
	25	21.6	26.6	47.90
GLATDS vs. Directory (Zone-Zone)	100	100.0	41.7	154.88
	50	53.3	39.8	101.30
	25	31.0	40.8	69.59
GLATDS vs. Census (Zone-Tract)	100	33.5	12.7	63.08
	50	17.9	12.2	40.39
	25	10.5	12.2	28.05
GLATDS vs. Empl. Survey (Zone-Tract)	100	50.9	20.2	92.88
	50	27.1	18.6	59.73
	25	16.0	19.1	41.30
GLATDS vs. Directory (Zone-Tract)	100	73.8	30.9	135.41
	50	39.3	28.4	87.32
	25	23.4	29.3	60.76

$$* \quad \text{RMS Error} = \sqrt{\sum_{i=1}^k \frac{(f1 - f2)^2}{k}}$$

f1 = observed frequency from GLATDS

f2 = observed frequency from other source

(zone-to-zone); for directory coding, 29 percent (zone-to-tract) and 40 percent (zone-to-zone).

One might safely conclude that the trip table cell frequencies from directory coding are too far off the mark compared with those from GLATDS, therefore, there probably is some "practical difference" between the two travel patterns developed. As for the employee survey and the Census Package, the conclusion about whether there is practical difference cannot be made at first glance.

If the transportation planner considered that the 12 to 26 percent differences in cell frequencies make no big difference in major street/highway system design or alternative systems evaluation, the conclusion might well be that the travel patterns developed from the Census Package or the employee survey have no significant practical difference with those developed from the home-interview survey. One must also remember that the results from the home-interview survey are also an estimate of the true travel pattern.

In order to give a quantitative account of the work trip volumes developed from the home-interview and from the other data sources, another statistical analysis was performed on the 2 by k tables. The question investigated was: "Is there any difference among 'means' of different survey methods?" In the 2 by k table, the row variable now is survey method (home-interview and another method) while the column variable is the zone-to-zone or zone-to-tract combinations. The nature of the question was appropriate for investigation by the analysis of variance technique (ANOVA). Since there are two "factors", it was called two-way ANOVA. The hypothesis tested was that there is no difference among "means" of travel volume developed by the two methods. It is obvious

that this is a less restrictive test, since we are now only dealing with the means of trip tables, rather than the proportional distribution of the trip tables.

In the two-way classification investigated, there was only one "observation" per cell; in other words, each survey obtained only one travel volume figure for each zone pair. Therefore, a big assumption had to be made before the ANOVA could be carried out; that is, there were no "interactions" between the survey method and the zone-pair combination. This assumption would provided the necessary estimate of the "error" term in the ANOVA model.

Since it was doubtful that the above assumption was true, a "pretest" for the interaction significance was taken. Tukey (49) suggested a method of "pulling out" part of the "residual" sum of squares as the sum of square for "interaction" with one degree of freedom. The theoretical reasoning was described in detail in Tukey's classic paper appeared in Biometrics in 1949. The model has the form:

$$T_{ij} = \mu + M_i + Z_j + MZ_{ij} + \epsilon_{(ij)}$$

where

T_{ij} = travel volume in (ij)th cell;

μ = overall mean;

M_i = effect of the i^{th} survey method,

$i = 1$ for home-interview method, and

$i = 2$ for other survey method;

Z_j = effect of the j^{th} zone-pair combination,

$j = 1, 2, \dots, k$

MZ_{ij} = interaction effect of the i^{th} method and j^{th} zone-pair combination;

$\epsilon_{(ij)}$ = error term.

Note that if two or more home-interviews and other surveys had been made, the "real" interaction sum of squares would be estimated correctly, which undoubtedly would make it more realistic.

In general, the assumptions underlying ANOVA are the same as those usually associated with regression analysis. These are additivity, linearity, normality, independence and homogeneous variances. That is, the model assumed is a linear model to which has been appended certain restrictions about independent observations from normal distributions. Except for additivity, the present ANOVA investigation does not test these assumptions, presumably all assumptions will hold under all survey procedures.

The expected mean squares (EMS) for this model, shown as a sum of σ^2 and an unknown function of the fixed effects, can be shown as follows:

<u>Source of Variation</u>	<u>DF</u>	<u>EMS</u>
Survey Method (M)	1	$\sigma^2 + k \phi(M)$
Zone Combination (Z)	k-1	$\sigma^2 + 2 \phi(Z)$
Interaction (MZ)	1	$\sigma^2 + \phi(MZ)$
Residual (E)	k-2	σ^2
Total	2k-1	

Therefore, the F-statistic for the interaction term can be calculated as $MS(MZ)/MS(E)$. The MZ term could be considered not significant if the calculated F is less than the critical F with 1 and (k-2) degrees of freedom at 0.01 level of significance. It has been stressed that the ANOVA was a supplemental analysis testing the hypothesis that there is

no significant difference among "means" of two survey methods. Thus, it was not as critical as those tests by chi-square method. Therefore, the 0.01 level seems to be adequate for testing the significance of interaction as well as the main effects.

A series of two-way ANOVA programs were run and the results are shown in Tables 7 through 11.

Of the 15 F-values for interaction, seven of them were smaller than their corresponding critical F's, eight of them were greater than the critical F's. Table 9 (GLATDS versus Census Package) shows some large F-values for interactions.

It seems safe to conclude that there were probably no significant interaction effects in the ANOVA for employee survey and directory coding. However, it is obvious that there must be interaction effect between survey method and zone combination in the ANOVA for census package.

The next question to be investigated was: "Can the interaction effect be ignored?" In strictly statistical sense, it is not recommended for the following reasons:

- (1) In general, results expressed in terms in which effects are additive apply in a broader region and are practically more useful; and
- (2) If the error is not normally distributed, then it is not known whether or not the use of the balance mean square unduly inflates the apparent significance of other mean squares.

However, since the objective of the ANOVA (to investigate difference among means of methods) was not the major concern of this study (compared to the chi-square analysis of difference among proportional distributions),

Table 7
Two-way ANOVA Tables
GLATDS vs Employee Survey (Zone-to-Zone)

A. Cutoff at 100:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	3120	3120	.55	6.90
Zone Combination	98	16163359	164932	28.88	1.60
Interaction	1	1560	1560	.27	6.90
Residual	97	553992	5711		
Total	197	16722032			

B. Cutoff at 50:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	1343	1343	.54	6.75
Zone Combination	232	20856001	89897	36.32	1.30
Interaction	1	3052	3052	1.23	6.75
Residual	231	571751	2475		
Total	465	21432146			

C. Cutoff at 25:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	232	232	.20	6.63
Zone Combination	513	24303846	47376	41.44	1.00
Interaction	1	4195	4195	3.67	6.63
Residual	512	585310	1143		
Total	1027	24893582			

Table 8
Two-way ANOVA Tables
GLATDS vs Directory (Zone-to-Zone)

A. Cutoff at 100:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	9003	9003	.76	6.90
Zone Combination	104	16804728	161584	13.57	1.60
Interaction	1	23698	23698	1.99	6.90
Residual	103	1226728	11910		
Total	209	18064157			

B. Cutoff at 50:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	4675	4675	.93	6.75
Zone Combination	252	21644275	85890	17.04	1.30
Interaction	1	28308	28308	5.62	6.75
Residual	251	1265226	5041		
Total	505	22942484			

C. Cutoff at 25:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	1019	1019	.43	6.63
Zone Combination	547	25012869	45727	19.30	1.00
Interaction	1	32552	32552	13.74	6.63
Residual	546	1293535	2369		
Total	1095	26339976			

Table 9
Two-way ANOVA Tables
GLATDS vs Census Package (Zone-to-Tract)

A. Cutoff at 100:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	4524	4524	3.85	6.90
Zone Combination	100	28276832	282768	240.57	1.60
Interaction	1	80048	80048	68.10	6.90
Residual	99	116364	1175		
Total	201	28477768			

B. Cutoff at 50:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	1594	1594	3.19	6.75
Zone Combination	253	32959707	130276	260.95	1.30
Interaction	1	79737	79737	159.72	6.75
Residual	252	125806	499		
Total	507	33166844			

C. Cutoff at 25:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	662	662	2.67	6.63
Zone Combination	533	36240813	67994	274.26	1.00
Interaction	1	77487	77487	312.55	6.63
Residual	532	131892	248		
Total	1067	38450855			

Table 10
Two-way ANOVA Tables
GLATDS vs Employee Survey (Zone-to-Tract)

A. Cutoff at 100:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	407	407	.10	6.90
Zone Combination	101	32403272	320825	75.12	1.60
Interaction	1	12532	12532	2.93	6.90
Residual	100	427063	4271		
Total	203	32843273			

B. Cutoff at 50:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	15	15	.01	6.75
Zone Combination	254	37355196	147068	84.15	1.30
Interaction	1	12648	12648	7.24	6.75
Residual	253	442178	1748		
Total	509	37810037			

C. Cutoff at 25:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	89	89	.11	6.63
Zone Combination	542	40848796	75367	90.53	1.00
Interaction	1	12159	12159	15.04	6.63
Residual	541	450410	833		
Total	1085	41311813			

Table 11
Two-way ANOVA Tables
GLATDS vs Directory (Zone-to-Tract)

A. Cutoff at 100:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	1762	1762	.20	6.90
Zone Combination	107	33484332	312938	35.22	1.60
Interaction	1	46693	46693	5.26	6.90
Residual	106	941717	8884		
Total	215	34474504			

B. Cutoff at 50:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	208	208	.06	6.75
Zone Combination	267	38386481	143770	39.24	1.30
Interaction	1	47093	47093	12.85	6.75
Residual	266	974504	3664		
Total	535	39408287			

C. Cutoff at 25:

<u>Source of Variation</u>	<u>DF</u>	<u>Sum of Squares</u>	<u>Mean Square</u>	<u>F_{calc}</u>	<u>F_{.01}</u>
Survey Method	1	67	67	.04	6.63
Zone Combination	562	41815197	74404	42.06	1.00
Interaction	1	46814	46814	26.46	6.63
Residual	561	992370	1769		
Total	1125	42854448			

it seems not warranted to try a transformation of the observed cell values and a new analysis of the transformed variable as suggested by Tukey (49). Hence, the mean square for the balance with $(k-2)$ degrees of freedom was used in considering the significance of the "method" effects.

The calculated F-values were very small (less than unity except those for the census comparison which were in the range of 2.67 to 3.85. However, based on the calculated F-values, we cannot reject the hypothesis that the means of the home-interview survey are significantly different from those of other surveys.

Caution must be observed for those cases where the calculated F-value is less than one. We can simply say that F was not significant and thus the hypothesis cannot be rejected. Such an "easy" dismissal of the question, however, is not wise, for it could cause us to ignore a valuable warning sign. Suppose that F with v_1 and v_2 degrees of freedom is so small that $F' = 1/F$, with v_2 and v_1 degrees of freedom, is significant. What should our conclusion be in this case? In this situation, it seems reasonable to reject the postulated statistical model.

Fortunately, the F' values are not significant in all cases except one (Table 10.B). We may, therefore, safely conclude that there is no difference between means from the home-interview and the other procedures.

Another kind of test procedure was undertaken in order to confirm the ANOVA conclusions. It was the Student paired t-test. The hypothesis tested was that the mean difference between two survey procedures is zero. The test results are shown in Table 12.

The t-test is virtually the same as the F-test in ANOVA. We again have two levels of the first factor (survey method) and the degree of freedom for the numerator is one. While it can be shown that

Table 12
Result of t-tests for Paired Observations

Null Hypothesis: $\mu_D = 0$

<u>Case</u>	<u>Cutoff at</u>	<u>Calculated t</u>	<u>Critical $t_{.01}$</u>	<u>DF</u>
GLATDS v Empl. (Zone-to-Zone)	100	-0.74	± 2.63	98
	50	-0.74	± 2.60	232
	25	-0.45	± 2.59	513
GLATDS v Dir. (Zone-to-Zone)	100	-0.87	± 2.63	104
	50	-0.95	± 2.60	252
	25	-0.65	± 2.59	547
GLATDS v Census (Zone-to-Tract)	100	+1.52	± 2.63	100
	50	+1.40	± 2.60	253
	25	+1.30	± 2.59	533
GLATDS v Empl. (Zone-to-Tract)	100	-0.31	± 2.63	101
	50	-0.09	± 2.60	254
	25	+0.32	± 2.59	542
GLATDS v Dir. (Zone-to-Tract)	100	-0.44	± 2.63	103
	50	-0.23	± 2.60	267
	25	+0.19	± 2.59	562

$t_v^2 = F_{1,v}$ theoretically, the numerical result of the t-tests supports this fact. The conclusion reached is the same as that from the ANOVA analysis, there is no significant difference between means of the two survey procedures.

It must be emphasized that the ANOVA and the paired t-test results did not contradict results from the chi-square tests. The latter is the appropriate test procedure for the objective of comparing two "frequency" distributions developed by two survey procedures. The F- and t-tests tested only the "means" from two procedures, under many assumptions previously mentioned. Furthermore, the F- and t-tests only "proved" that the two survey procedures developed pretty much the same means (or, in other words, the same totals) of trip volumes but tells nothing about the distribution of cell volumes. However, it does indicate some possible merits for the alternate survey procedures.

Conclusions

Conclusions should now be made, in as objective a manner as possible, from results of the comparative analysis of travel patterns developed from the four work trip data sources analyzed. The conclusions of this analysis are the results of careful consideration of the various tests and comparisons previously described. It must be remembered that these conclusions are based on data obtained from one city; in other words, it is a case study for a rather small city from which concluding remarks are drawn. These remarks might or might not be applicable in other urban areas, even for cities of similar size and characteristics.

From the zone-to-zone travel pattern analysis, both the employee

survey (with employee address reported only) and the city directory coding produced travel patterns significantly different in a statistical sense from the GLATDS home-interview survey. However, the employee survey produced better results than the city directory source and might not be practically different with respect to major street/highway system planning.

In traffic zone to census tract analysis, the Census Package produced the closest travel pattern compared with the GLATDS data. Therefore, it is concluded that the census data should be seriously considered as a satisfactory work trip data base for transportation planning in small cities, especially for those cities where traffic zone to traffic zone trip analysis is possible, as it is for most SMSA's.

Caution must be used in drawing conclusions relative to the inadequacy of the employee survey. Since the survey taken in this study was in its simplest form (only the employee address was asked), and those firms with less than 20 employees were not included, the travel patterns developed gave emphasis to trips to large employment centers. Such a survey might serve very well in those urban areas where there are distinctive zonal separations between residence and work places. Moreover, if more elaborate survey procedures were employed, such as the trip-card method mentioned in Chapter IV, results may be significantly better than those reported here.

One positive conclusion which must be made is that the means or total work trip volumes developed from the four survey procedures utilized were quite close to that developed from the home-interviews. This fact indicates some possible use for the alternate procedures studied, perhaps for check purposes.

However, there is no concrete evidence to prove the hypothesis that travel patterns developed from the other three sources simulate close enough for planning purposes to the "true" pattern. It is possible that the alternate data collection procedures studied are more suitable to be used in the continuing planning process, or that they can be used as a supplemental data source in the initial planning phase, rather than as the primary data base for comprehensive planning.

CHAPTER VII. PROPOSED APPLICATIONS USING WORK TRIP DATA IN TRANSPORTATION PLANNING FOR SMALL URBAN AREAS

There is a great need for a simplified transportation planning process for small urban areas because of: (1) the relatively high cost of the home-interview origin-destination survey, and (2) the difficulty of obtaining qualified personnel in sufficient numbers to perform the conventional transportation study.

The origin-destination survey as originally devised was needed to obtain the travel patterns into and within the study area. However, this may not be necessary in small urban areas.

Small cities have few major traffic generators. By thoroughly examining these generators, the street system, and the residential areas, one may be able to identify where, or if, travel patterns differ from traffic volumes. In typical small urban areas, the major concern of a transportation planner is how to obtain reasonably reliable design hourly volumes for developing transportation system plans.

Therefore, the development of a peak-hour work-trip oriented forecasting procedure would be desirable. This is because work trips are the majority of peak hour traffic, and peak hour traffic forecasting could be the major step in determining design hour volumes. This point has been stressed by Alonso (1) in his paper presented at the 1967 Conference on Urban Development Models, jointly sponsored by the Highway Research Board, the Bureau of Public Roads, and the Department of Housing

and Urban Development. Alonso, in effect, says that in conventional urban transportation planning, the model chains are too long. We string together a series of models for generation, distribution, and assignment, not to mention land use, each with its own contribution to the variance of the final volumes. The designer then takes the transportation planner's ADT (average daily traffic) and applies directional and peak hour factors to determine what he really wants - the design hourly volume.

It appears feasible to use data collected at the place of work and at special shopping surveys to develop travel patterns for small urban areas. This type of survey will be increasing more important as authorities begin updating transportation plans where comprehensive O-D surveys have already been conducted, and it should provide sufficient data to make a validity check of forecasting models for trends and travel patterns.

Unfortunately, travel patterns developed in this study from three alternate data sources did not clearly match with that from a dwelling unit survey. Therefore, specific recommendations pertaining to replacing the home-interview O-D survey procedure in the initial planning phase are not possible. However, the Census Package and the employee survey may still be utilized in small cities since they may not produce practical differences in travel patterns from a home-interview survey. The following paragraphs are devoted to discussions pertaining to some applications using work trip data from various sources, with emphasis on using the Census Package, especially in the continuing planning phase.

Figure 3 shows a flow diagram for proposed simplified planning process with applications of work travel data. The bracketed numbers appearing in the upper left corners will be referenced during the following discussions. The blocks noting "base year" could be revised to "updating

base year" in the continuing planning phase.

Block No. 4 was the major concern of the present study. The base year (or any updating year) data would be work travel data (if greater accuracy is wanted, shopping travel information also) from the Census UTP Package or from a work place survey. Block No. 30 is for the continuing planning phase only. If, according to selected criteria, the trip tables developed by using the updating year data did not reasonably agree with those forecasted in the earlier base year, the generation model or the F-factor should be revised to account for travel or urban area characteristics changes.

Block No. 8 could be fulfilled using the regression analysis technique. The dependent variables would be:

- (1) home-based work person-trip productions,
- (2) home-based shop person-trip productions (optional),
- (3) home-based school person-trip productions (optional),
- (4) home-based work person-trip attractions,
- (5) home-based shop person-trip attractions (optional),
- (6) home-based school person-trip attractions (optional).

The shopping and school trips can be surveyed in a manner that the peak hour portions can be added to work trip productions (attractions) to give a more accurate estimate of peak-hour volumes.

If all-purpose all-day trip volumes are wanted, network volume counts can be entered as a dependent variable, and the assigned peak-hour volume as an independent variable in the regression analysis.

The independent variables for the trip generation model could consist of all or a selection of:

- (1) total employment,

- (2) retail employment,
- (3) service employment,
- (4) retail floor area,
- (5) labor force,
- (6) population,
- (7) dwelling units,
- (8) educational floor area, and
- (9) others.

The output of Block No. 11 and the direct trip table developed from Block No. 4 could be used to calibrate the gravity model.

The "simplification" proposed is mostly in data collection activities and in the ease of forecasting independent variables; as for the total logic flow, there is not much difference compared with the traditional process. This can be observed by comparing Figures 2 and 3.

Pertaining to the continuing planning phase, the Federal Highway Administration (12) issued an Instructional Memorandum which states: "A continuing transportation planning process must be responsive to the needs of the local area and to the changes occurring in the area. Current, valid data concerning land use, travel, and transportation facilities should be maintained to allow revision and reevaluation of the transportation plan as conditions change from those initially analyzed and forecasted".

The Memorandum was accompanied by Guidelines identifying the essential elements for continuing planning. They are surveillance, reappraisal, service, procedural development and annual report. A three-level approach to reappraisal was recommended. These levels and the corresponding potential applications using work-trip data will be discussed.

(1) Level One - Routine Review

The routine review is concerned primarily with determining the difference between actual land usage from the forecasted land usage, and the impact of this difference on traffic patterns. Revised trip ends in the area should be estimated to provide a better measure of the impact of the changes on the planned transportation system. Employment surveys may be conducted at major traffic generators that differ significantly from their projected land use. This will provide the basic input data for use in a work trip oriented model developed for the urban area. If the change in land use is in process, a projection of employment data can be obtained for use in the model. The survey should provide data for a peak-hour work-trip oriented model for estimating total peak-hour volumes. The estimated volumes may then provide a basis of design changes in the transportation system to accomodate unanticipated changes in land uses.

(2) Level Two - Major Review

The annual level one review forms a basis for determining when a level two review is needed. The FHWA recommended it should be made at least every five years. In this level two review, an evaluation should be made to determine if the travel forecasting process still satisfactorily simulates actual travel. Synthetic trips developed from current trip estimates should be assigned to a current network. The assigned link volumes can be compared with actual ground count volumes so that inconsistencies in the forecasting process can be detected.

If significant differences occur, new travel data will be required for recalibration or revision of the forecasting models. Assignment of the revised trip desires to the previously adopted network may indicate

that a new network analysis is needed. Current practice would call for a new home-interview O-D survey to provide the travel data for recalibration and/or revision of the forecasting models. This may be too expensive and time consuming for any-size urban areas. A better approach might be to utilize work trip information, obtained either from the Census Bureau or an employment survey to forecast link volumes. These link volumes could form the basic data needed to revise and update the travel patterns used in developing transportation plans.

If the census is taken every five years, as some legislators have proposed, current census data would be available at a suitable interval for such major reviews. If the census is taken every ten years, the census data still will provide current data for one-half of the major reviews. An employment survey could be used between each census to provide equivalent data on work travel for use in the model.

(3) Level Three - Plan Reevaluation

A comprehensive reexamination of the transportation and land use plans should be made whenever there are significant changes in planning technology, revenues, or assumed growth rates. The FHWA recommended this plan reevaluation should be made at least once every ten years.

The plan reevaluation consists of virtually redoing the transportation study from start to finish. As in the major review process, a more satisfactory approach might be the use of census data as input to a work trip oriented model. Link total volumes could then be obtained for use in the reevaluation process. Therefore, it is reasonable to suggest that the schedule for plan reevaluation for any urban area should coincide with that of the 10-year national census of population and housing.

The above paragraphs present a concise and potentially reasonable application of the census or employee survey in the comprehensive planning process. For many small urban areas, this approach appears to be desirable because of economies and inadequate professional personnel. Although the less than absolute positive results of this study prevent strong recommendations for major revisions in the planning process, it is believed that the value of the work-trip oriented approach has been indicated as worthy of further study and consideration.

CHAPTER VIII. SUMMARY AND RECOMMENDATION FOR FURTHER RESEARCH

This research investigated the feasibility of using work trip information for simulating urban travel patterns either as a replacement or as a supplement to the conventional home-interview origin-destination survey. Work travel information was acquired from an employee survey, the city directory and the Census Bureau for the Lafayette - West Lafayette (Indiana) area.

Chi-square test and two-way analysis of variance techniques were used in statistical analyses for comparisons of travel patterns developed from the home-interview survey and the three other procedures. It was found that there were statistically significant differences in trip table cell frequencies in all comparisons. The Census Package comparison produced the best result. Percentage difference comparisons and ANOVA results indicate, however, that the statistical differences found in trip table cell frequencies for the Census Package and employee survey may not be practical differences in the travel patterns for planning of major street systems in small urban areas.

A proposed simplified transportation planning process for small urban areas is proposed. The peak-hour work-trip oriented approach is suggested as worthy of further consideration and use even though the findings of this research did not provide absolute evidence that it will develop as good a transportation plan as those developed by traditional procedures.

Based on the results of this study, it is suggested that additional comprehensive projects be conducted using peak-hour work-trip oriented models in other small urban areas. Such projects should include a more comprehensive employee survey and should be accompanied by a shopping trip survey to supplement the work trip data. The Census Package should also be used in small cities selected where zone to zone work trips are reported.

The proposed comprehensive study should especially evaluate relative trade-off in cost saving versus loss in model accuracy and should utilize both the work trip oriented and conventional approaches concurrently to evaluate further their relative merits.

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APPENDICES

APPENDIX A

General Characteristics of Lafayette - West Lafayette SMSA Population

Appendix A. General Characteristics of Lafayette SMSA

Table P-1. General Characteristics of the Population: 1970

(For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

Tepecocon County					Lafayette									
Census Tracts	Total	Lafayette	West Lafayette	Balance	Tract 0001	Tract 0002	Tract 0003	Tract 0004	Tract 0005	Tract 0006	Tract 0007	Tract 0008	Tract 0009	
RACE														
All persons	109 378	44 953	19 137	45 286	2 746	3 366	3 387	3 113	976	516	2 897	3 933	1 904	
White	107 279	44 197	18 465	44 617	2 724	3 310	3 173	2 721	964	501	2 879	3 946	1 878	
Negro	1 035	570	155	260	19	41	54	369	5	2	36	5	—	
Percent Negro	0.9	1.3	0.8	0.6	0.7	1.2	1.7	11.9	0.5	0.3	1.4	0.1	—	
AGE BY SEX														
Male, all ages	53 253	21 398	10 414	23 943	1 317	1 578	1 583	1 408	675	376	1 277	1 793	940	
Under 5 years	2 792	1 181	617	1 994	128	141	162	155	43	20	131	129	26	
5 to 9 years	1 852	878	222	752	49	62	77	60	17	5	31	46	28	
10 to 14 years	4 844	1 187	616	1 861	133	156	152	136	22	3	126	118	99	
15 to 19 years	937	245	109	363	28	29	43	31	4	1	32	25	14	
20 to 24 years	1 050	5 073	1 440	373	25	25	34	31	4	7	28	24	22	
25 to 29 years	1 866	363	115	388	29	40	34	23	4	2	37	26	29	
30 to 34 years	15 179	3 614	1 841	4 738	116	139	158	116	39	17	118	181	82	
35 to 39 years	864	397	116	351	18	31	34	27	4	3	14	42	14	
40 to 44 years	7 660	1 818	1 104	4 738	34	32	27	27	7	1	27	42	24	
45 to 49 years	851	274	108	349	23	22	29	17	8	9	17	47	24	
50 to 54 years	2 278	520	177	1 781	22	25	26	21	11	4	25	32	18	
55 to 59 years	2 817	305	112	1 793	18	28	32	24	6	3	38	28	13	
60 to 64 years	9 743	1 912	3 238	4 292	104	133	134	175	92	47	209	141	78	
65 to 69 years	2 624	307	1 020	1 307	13	24	25	14	10	38	38	30	13	
70 to 74 years	2 495	353	1 020	1 121	13	24	29	32	22	15	40	27	11	
75 to 79 years	7 255	3 097	1 665	2 993	161	181	203	193	71	23	175	215	116	
80 to 84 years	5 049	2 372	756	1 770	150	162	182	102	48	36	116	164	99	
85 to 89 years	4 777	2 352	662	763	173	190	221	124	45	47	120	232	126	
90 to 94 years	1 914	660	227	727	64	69	67	21	17	51	134	57	—	
95 to 99 years	60	16	19	27	5	6	62	44	21	24	49	11	—	
100 to 104 years	2 000	1 021	280	699	63	85	58	91	21	28	71	149	67	
105 to 109 years	1 198	590	136	472	30	56	26	54	20	27	24	94	27	
Female, all ages	53 825	23 555	11 721	21 353	1 428	1 788	1 804	1 705	501	100	1 620	3 140	944	
Under 5 years	4 568	2 107	580	1 901	107	153	140	156	42	10	131	126	26	
5 to 9 years	1 741	836	220	665	46	60	70	53	12	—	45	49	33	
10 to 14 years	4 568	2 119	580	1 799	126	149	147	107	20	5	101	120	91	
15 to 19 years	895	430	117	348	27	27	31	21	4	—	17	22	24	
20 to 24 years	4 245	1 030	582	1 733	145	164	143	119	22	3	112	149	88	
25 to 29 years	838	403	110	325	23	36	25	28	7	—	23	28	12	
30 to 34 years	6 517	2 054	814	3 614	121	168	165	186	66	22	153	178	78	
35 to 39 years	854	408	109	337	23	36	33	27	6	1	23	31	12	
40 to 44 years	799	378	110	310	20	36	41	20	5	2	16	39	17	
45 to 49 years	854	429	83	342	31	36	29	26	6	3	29	41	16	
50 to 54 years	1 841	432	123	1 266	26	26	35	58	26	8	33	29	13	
55 to 59 years	2 165	437	309	1 399	31	34	37	55	23	8	56	38	20	
60 to 64 years	7 759	2 272	2 251	3 236	120	146	146	222	81	46	205	193	78	
65 to 69 years	1 857	460	612	785	23	30	32	53	16	9	45	43	17	
70 to 74 years	7 257	3 015	1 284	2 755	185	186	191	172	43	10	169	194	119	
75 to 79 years	5 281	2 413	783	1 925	158	162	210	138	39	16	118	213	126	
80 to 84 years	5 064	2 614	651	1 799	174	236	229	167	52	20	143	289	121	
85 to 89 years	5 064	2 614	651	1 799	174	236	229	167	52	20	143	289	121	
90 to 94 years	1 747	707	234	670	57	78	62	80	20	17	57	124	60	
95 to 99 years	1 249	779	254	516	73	78	62	80	20	17	57	124	60	
100 to 104 years	2 731	1 365	405	761	63	160	93	137	44	46	102	228	70	
105 to 109 years	2 131	1 229	271	631	50	97	56	135	40	49	81	194	35	
RELATIONSHIP TO HEAD OF HOUSEHOLD														
All persons	109 378	44 953	19 137	45 286	2 746	3 366	3 387	3 113	976	516	2 897	3 933	1 904	
In households	90 901	44 429	15 911	36 551	2 746	3 366	3 387	3 058	913	513	2 879	3 859	1 904	
Head of household	32 320	15 055	8 870	11 395	925	1 099	1 138	432	224	1 032	1 686	1 466	619	
Head of family	25 226	11 951	3 708	10 167	757	894	872	736	221	99	661	1 121	496	
Family adult	6 794	3 404	2 162	2 968	168	205	156	402	111	215	372	323	123	
Wife of head	23 229	10 652	4 331	9 586	663	766	784	573	165	71	535	977	423	
Other relative of head	38 292	18 277	8 722	15 014	1 129	1 495	1 373	1 193	275	91	873	1 365	870	
Not related to head	3 189	895	1 718	556	29	52	52	122	41	27	130	71	42	
In group quarters	12 477	516	3 246	8 715	—	—	—	—	—	—	—	—	—	
Persons per household	3 00	2 95	2 71	3 21	2 97	3 06	3 15	2 66	2 11	1 57	2 59	2 67	3 08	
TYPE OF FAMILY AND NUMBER OF OWN CHILDREN														
All families	35 336	11 453	3 704	10 169	737	804	372	736	221	99	461	1 131	496	
With own children under 18 years	14 127	6 458	1 901	5 752	308	454	500	353	103	34	214	473	252	
Number of children	30 859	14 203	4 148	12 508	835	1 064	1 053	814	182	51	709	942	545	
Married wife families	23 109	10 119	3 431	9 556	663	756	784	573	165	71	535	977	423	
With own children under 18 years	12 980	5 254	1 791	5 435	351	398	458	274	74	24	250	427	223	
Number of children	28 589	12 803	2 926	11 560	746	977	971	679	139	39	591	846	501	
Percent of total under 18 years	66.2	51.6	92.6	90.6	81.4	85.6	87.9	60.0	64.1	66.1	74.4	84.7	79.8	
Families with other wife head	1 681	255	68	136	19	38	16	31	13	7	21	21	24	
With own children under 18 years	181	69	11	69	8	9	8	6	6	6	6	6	6	
Number of children	304	154	45	105	13	15	9	16	9	3	11	8	10	
Families with female head	1 828	1 174	209	645	75	102	70	129	41	31	105	123	41	
With own children under 18 years	986	615	125	276	41	47	35	70	22	8	58	68	22	
Number of children	1 968	1 246	177	543	76	92	73	169	34	9	107	86	26	
Percent of total under 18 years	6.1	6.2	4.2	4.1	8.3	8.1	6.6	18.0	15.7	15.3	13.5	13.5	8.7	
Persons under 18 years	32 432	15 105	4 239	13 088	916	1 142	1 105	929	217	99	794	1 001	628	
MARITAL STATUS														
Male, 14 years old and over	42 855	15 389	8 830	18 835	957	1 134	1 145	1 010	397	268	955	1 447	718	
Single	16 873	3 762	1 941	8 190	209	269	264	287	141	108	304	419	198	
Married	24 050	10 627	3 541	9 887	692	805	805	634	183	97	575	1 013	455	
Separated	266	166	30	70	6	13	9	20	9	16	26	12	14	
Widowed	899	538	85	256	27	17	37	39	42	29	49	49	38	
Divorced	899	538	85	256	27	17	37	39	42	29	49	49	38	
Female, 14 years old and over	41 084	17 704	7 097	18 285	1 074	1 360	1 359	1 359	424	212	1 116	1 793	893	
Single	11 530	2 634	2 898	4 998	174	279	271	357	113	78	284	330	114	
Married	24 217	10 856	3 563	9 948	877	877	815	670	191	87	545	1 029	450	
Separated	400	263	29	108	10	10	13	31	15	6	32	10	10	
Widowed	3 879	2 378	470	1 081	141	186	126	228	79	86	149	325	87	
Divorced	1 360	736	166	258	51	68	47	106	41	31	98	89	47	

CENSUS TRACTS

Table P-1. General Characteristics of the Population: 1970—Continued

(For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

Census Tracts	Lafayette—Con.								West Lafayette							
	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0107	Tract 0108		Tract 0051	Tract 0052	Tract 0053	Tract 0054	Tract 0055	Tract 0102	Tract 0103	
RACE																
White..... All persons	3 404	4 045	3 376	3 163	3 853	316	1 806		3 363	4 899	3 444	3 798	3 816	291	16	
Black.....	3 364	4 047	2 549	3 121	3 850	312	1 789		3 292	4 793	3 327	3 615	3 662	809	16	
Percent White.....	14	9	14	13	1	4	2		12	26	11	18	66	7	0.9	
Percent Negro.....	0.4	0.2	0.4	0.3	—	0.2	0.2		0.4	0.6	0.3	0.5	2.4	0.9	—	
AGE BY SEX																
Male, all ages	1 605	1 808	1 631	3 485	1 868	354	878		1 837	2 485	1 833	2 913	1 593	446	16	
Under 5 years	150	145	141	300	267	40	153		181	185	122	63	45	21	—	
5 and 4 years	54	57	57	126	117	7	53		72	68	39	19	16	8	—	
5 to 9 years	147	175	140	331	288	41	100		198	230	114	35	19	22	—	
10 to 14 years	27	40	27	62	66	10	26		27	30	27	6	5	4	—	
15 to 19 years	37	37	36	66	66	5	20		50	51	22	8	3	—	—	
20 to 24 years	166	191	166	313	227	27	68		162	267	104	27	24	32	—	
25 to 29 years	37	30	34	67	29	6	10		34	53	22	5	2	—	—	
30 to 34 years	176	164	137	192	125	12	44		117	253	165	409	142	36	—	
35 to 39 years	50	35	32	46	35	2	10		15	63	23	3	1	11	—	
40 to 44 years	40	31	24	45	35	1	11		16	42	50	5	2	3	—	
45 to 49 years	40	44	32	53	20	1	14		15	48	23	11	4	7	—	
50 to 54 years	132	132	117	65	41	—	34		34	21	59	42	7	—	—	
55 to 59 years	54	27	23	19	10	1	3		52	28	78	331	93	8	—	
60 to 64 years	158	153	124	163	90	13	96		474	267	591	1 262	866	117	11	
65 to 69 years	34	29	21	14	10	—	10		121	63	117	534	159	19	—	
70 to 74 years	24	27	23	29	12	2	18		136	73	164	416	20	24	4	
75 to 79 years	200	215	191	420	166	61	216		346	341	436	275	311	50	—	
80 to 84 years	199	215	176	338	247	29	80		213	271	146	275	311	50	—	
85 to 89 years	177	214	189	274	116	14	70		91	353	127	31	41	39	—	
90 to 94 years	229	209	182	45	24	2	15		20	102	55	15	10	10	—	
95 to 99 years	82	119	85	37	21	1	20		14	91	47	18	6	21	—	
100 to 104 years	119	132	117	65	41	—	34		19	106	79	15	12	17	—	
75 years and over	52	58	83	17	3	11	6		7	37	38	25	17	17	—	
Female, all ages	1 719	1 177	1 925	3 648	1 987	862	928		1 526	3 414	1 599	1 545	1 293	379	—	
Under 5 years	133	131	123	280	277	39	194		173	173	126	49	39	18	—	
5 and 4 years	64	56	47	122	124	13	67		69	67	38	19	16	8	—	
5 to 9 years	149	170	127	329	327	42	99		200	219	85	46	22	22	—	
10 to 14 years	33	54	33	62	77	10	22		35	43	16	12	6	—	—	
15 to 19 years	33	44	19	69	67	9	26		36	39	21	5	6	4	—	
20 to 24 years	153	174	139	279	232	24	77		122	276	112	26	19	24	—	
25 to 29 years	25	41	34	62	45	2	7		17	61	17	6	3	—	—	
30 to 34 years	155	215	151	229	132	14	51		105	272	99	265	97	26	—	
35 to 39 years	25	41	34	62	45	2	7		17	61	17	6	3	—	—	
40 to 44 years	21	45	28	43	29	4	10		11	58	19	5	—	7	—	
45 to 49 years	26	44	32	35	16	1	12		13	49	11	3	—	7	—	
50 to 54 years	34	44	32	35	16	1	12		9	28	18	43	21	4	—	
55 to 59 years	37	42	23	33	12	3	11		43	29	31	208	74	—	—	
60 to 64 years	146	177	160	309	191	24	77		224	172	197	290	217	51	—	
65 to 69 years	39	41	32	41	12	1	20		31	35	51	232	73	8	—	
70 to 74 years	189	215	186	452	217	61	185		353	314	271	133	60	51	—	
75 to 79 years	175	224	190	345	217	21	78		183	297	150	46	22	45	—	
80 to 84 years	229	249	249	249	249	24	89		229	249	249	249	249	249	—	
85 to 89 years	91	148	108	60	32	4	26		25	114	61	32	21	21	—	
90 to 94 years	122	207	169	61	22	2	13		21	87	76	36	12	23	—	
95 to 99 years	68	124	177	45	9	22	7		35	118	127	67	26	26	—	
75 years and over	68	124	177	45	9	22	7		12	37	95	73	26	12	—	
RELATIONSHIP TO HEAD OF HOUSEHOLD																
All persons	2 404	4 045	3 376	3 163	3 853	316	1 806		3 363	4 899	3 444	3 798	3 816	291	16	
In households.....	2 396	4 031	2 485	3 143	3 855	316	1 800		3 357	4 884	3 433	3 793	3 813	287	16	
Head of household.....	1 179	1 447	1 270	1 483	991	120	511		1 062	1 550	1 272	699	727	318	—	
Head of family.....	848	1 110	963	1 319	945	117	492		763	1 278	809	770	752	304	—	
Family individual.....	337	337	307	164	46	3	19		299	272	464	559	485	88	—	
Wife of head.....	767	908	846	1 217	871	116	469		718	1 200	740	321	647	205	—	
Other relative of head.....	7138	1 516	1 318	2 299	1 956	240	812		2 299	1 933	932	1 395	197	222	—	
Not related to head.....	103	30	49	44	37	—	8		348	34	388	34	267	60	—	
In group quarters.....	8	34	91	—	—	40	6		6	15	111	1 645	1 293	60	—	
Persons per household.....	2 68	2 79	2 74	3 47	3 89	3 97	3 52		3 16	3 15	2 62	2 10	2 08	2 70	—	
TYPE OF FAMILY AND NUMBER OF OWN CHILDREN																
All families	848	1 110	963	1 319	945	117	492		763	1 278	809	770	752	318	—	
With own children under 18 years.....	450	570	450	975	767	95	363		486	736	366	136	97	86	—	
Number of children.....	638	1 145	970	2 076	1 772	229	738		1 270	1 666	751	264	168	176	—	
Married-couple families.....	734	983	848	1 317	911	116	469		718	1 200	740	321	647	205	—	
With own children under 18 years.....	390	468	404	864	708	94	331		460	692	342	125	87	84	—	
Number of children.....	913	1 052	876	1 937	1 638	207	717		1 070	1 380	707	245	153	131	—	
Percent of total under 18 years.....	82.1	86.7	84.6	90.6	90.0	98.2	95.1		94.1	93.6	90.6	87.6	86.4	96.1	—	
Families with other male head.....	25	34	31	12	15	—	4		11	18	9	17	8	3	—	
With own children under 18 years.....	10	6	6	8	9	—	2		3	10	5	17	10	5	—	
Number of children.....	14	10	3	10	21	—	4		5	20	12	7	5	—	—	
Families with female head.....	87	98	94	99	59	1	17		34	59	60	32	18	8	—	
With own children under 18 years.....	59	59	59	59	59	1	17		34	33	19	10	50	7	—	
Number of children.....	111	83	89	129	113	2	17		45	69	31	17	10	5	—	
Percent of total under 18 years.....	10.0	6.8	5.6	6.0	6.2	0.9	2.3		4.0	4.1	4.0	6.1	5.6	7.8	—	
Persons under 18 years.....	1 112	1 213	1 038	2 137	1 819	231	754		1 437	1 658	780	279	177	178	—	
MARITAL STATUS																
Male, 14 years old and over.....	1 359	1 407	1 328	1 593	1 133	153	567		1 320	1 856	1 524	2 135	1 437	383	16	
Single.....	386	326	270	270	195	27	79		569	577	716	1 766	1 138	159	16	
Married.....	764	1 014	874	1 234	884	118	425		712	1 224	744	341	277	211	—	
Separated.....	16	10	4	2	4	—	2		5	8	6	2	9	—	—	
Widowed.....	29	29	29	18	18	—	4		6	18	18	18	9	—	—	
Divorced.....	70	35	29	26	22	1	9		13	23	22	12	13	3	—	
Female, 14 years old and over.....	1 718	1 751	1 954	1 874	1 182	161	569		1 650	1 807	1 285	1 428	1 315	313	—	
Single.....	272	297	293	369	196	20	59		250	418	219	939	894	78	—	
Married.....	782	1 023	863	1 259	903	121	416		717	1 233	787	347	266	211	—	
Separated.....	31	19	12	18	15	2	3		7	6	3	3	5	1	—	
Widowed.....	175	256	296	118	44	19	26		33	113	294	118	70	24	—	
Divorced.....	62	77	82	68	40	1	8		30	43	42	22	21	6	—	

Table P-1. General Characteristics of the Population: 1970—Continued

(For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Balance of Tappan County													
	Tract 0001	Tract 0008	Tract 0009	Tract 0010	Tract 0014	Tract 0031	Tract 0032	Tract 0101	Tract 0102	Tract 0103	Tract 0104	Tract 0105	Tract 0106	Tract 0107
RACE														
All persons	221	9	391	56	217	775	59	4 431	7 017	3 154	3 239	3 377	3 377	3 377
White	221	9	387	55	208	755	59	4 416	6 968	2 989	3 229	3 377	3 377	3 377
Negro	-	-	3	-	-	5	-	-	30	72	67	84	84	84
Percent Negro	-	-	0.8	-	-	0.6	-	-	0.4	2.3	1.2	2.5	2.5	2.5
AGE BY SEX														
Male, all ages	112	4	197	30	159	345	31	2 189	3 498	2 442	2 743	1 731	1 731	1 731
Under 5 years	15	2	30	2	18	35	9	208	377	45	7	3	3	3
5 to 9 years	3	1	11	-	6	17	1	78	148	8	2	2	2	2
10 to 14 years	3	-	22	-	15	31	7	145	229	5	2	2	2	2
15 to 19 years	3	-	3	-	3	7	1	45	64	4	3	3	3	3
20 to 24 years	3	-	3	-	3	8	-	45	55	-	1	1	1	1
25 to 29 years	3	-	18	7	5	30	-	250	265	2	11	12	12	12
30 to 34 years	3	-	2	-	3	10	-	60	59	1	3	3	3	3
35 to 39 years	3	-	24	2	14	14	1	206	271	1 485	1 594	1 594	1 594	1 594
40 to 44 years	3	-	2	-	1	1	-	51	65	-	2	2	2	2
45 to 49 years	3	-	2	-	4	5	-	46	46	-	-	-	-	-
50 to 54 years	3	-	6	-	4	5	-	43	49	14	7	7	7	7
55 to 59 years	3	-	18	1	1	5	-	38	53	686	786	786	786	786
60 to 64 years	3	-	2	-	4	4	-	28	56	785	799	799	799	799
65 to 69 years	3	-	18	1	1	5	-	143	143	644	696	1 072	1 072	1 072
70 to 74 years	3	-	2	-	10	54	2	23	172	356	237	1	1	1
75 years and over	3	-	3	-	5	14	-	27	123	418	516	8	8	8
Under 18 years	24	1	20	3	18	61	4	314	576	112	49	26	26	26
18 to 24 years	10	-	17	1	17	32	1	252	340	15	8	3	3	3
25 to 34 years	13	-	25	5	12	39	3	303	303	1	6	2	2	2
35 to 44 years	13	-	9	1	12	19	2	102	112	-	1	1	1	1
45 to 54 years	13	-	7	1	18	18	1	87	99	1	1	1	1	1
55 to 64 years	13	-	7	3	5	14	2	99	173	-	1	1	1	1
65 to 74 years	13	-	7	3	5	14	2	99	173	-	1	1	1	1
75 years and over	13	-	7	3	5	14	2	99	173	-	1	1	1	1
Female, all ages	109	5	194	26	152	410	28	2 343	3 519	492	3 740	1 644	1 644	1 644
Under 5 years	2	-	18	2	18	30	1	237	381	49	12	7	7	7
5 to 9 years	2	-	14	1	12	12	-	101	130	5	2	2	2	2
10 to 14 years	2	-	14	1	8	8	-	216	276	5	8	8	8	8
15 to 19 years	2	-	3	1	2	8	1	41	54	-	1	1	1	1
20 to 24 years	2	-	17	1	4	30	3	52	62	-	2	2	2	2
25 to 29 years	2	-	17	1	4	30	3	52	62	-	2	2	2	2
30 to 34 years	2	-	26	2	18	24	3	210	253	85	1 940	126	126	126
35 to 39 years	2	-	4	-	2	2	1	42	64	1	2	2	2	2
40 to 44 years	2	-	10	1	2	4	-	44	44	-	2	2	2	2
45 to 49 years	2	-	2	1	3	6	-	50	37	-	20	4	4	4
50 to 54 years	2	-	3	-	3	3	-	46	37	15	983	43	43	43
55 to 59 years	2	-	10	1	6	3	1	28	73	69	933	12	12	12
60 to 64 years	2	-	10	1	19	23	1	190	458	308	158	7	7	7
65 to 69 years	2	-	17	2	6	6	3	38	76	91	457	15	15	15
70 to 74 years	2	-	17	2	7	5	-	35	104	90	215	10	10	10
75 years and over	2	-	26	3	17	71	4	300	530	51	22	263	263	263
Under 18 years	29	1	58	6	29	87	10	631	971	84	21	512	512	512
18 to 24 years	9	1	29	2	14	34	4	233	282	-	8	1	1	1
25 to 34 years	9	1	29	2	15	15	7	92	115	-	1	1	1	1
35 to 44 years	9	1	8	1	8	15	3	75	88	-	4	3	3	3
45 to 54 years	9	1	8	1	8	15	3	75	88	-	4	3	3	3
55 to 64 years	9	1	8	1	8	15	3	75	88	-	4	3	3	3
65 to 74 years	9	1	8	1	8	15	3	75	88	-	4	3	3	3
75 years and over	9	1	8	1	8	15	3	75	88	-	4	3	3	3
RELATIONSHIP TO HEAD OF HOUSEHOLD														
All persons	331	9	291	56	312	775	59	4 431	7 017	3 154	3 239	3 377	3 377	3 377
In households	221	9	391	56	217	775	59	4 403	6 558	2 734	2 734	2 734	2 734	2 734
Head of household	91	6	115	16	111	199	20	1 334	2 082	324	51	1 172	1 172	1 172
Member of household	10	1	108	14	100	170	15	1 175	1 757	309	30	1 154	1 154	1 154
Primary individual	16	3	7	2	11	29	3	159	215	15	21	18	18	18
Wife of head	21	1	96	12	90	156	15	1 083	1 663	307	28	1 135	1 135	1 135
Other relative of head	56	2	156	28	107	252	22	1 953	2 957	98	68	795	795	795
Not related to head	8	-	4	-	4	36	2	41	229	3	9	4	4	4
In group quarters	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Persons per household	2.43	1.50	3.40	3.50	2.81	3.23	2.95	3.30	3.15	2.27	3.06	2.65	2.65	2.65
TYPE OF FAMILY AND NUMBER OF OWN CHILDREN														
All families	75	1	168	14	188	370	13	1 975	1 747	369	38	1 154	1 154	1 154
With own children under 18 years	32	1	63	7	47	97	10	663	1 076	86	21	529	529	529
Number of children	47	2	134	23	88	217	19	1 567	2 230	94	56	770	770	770
Married-couple families	70	1	96	10	100	186	15	1 083	1 643	367	29	1 135	1 135	1 135
With own children under 18 years	29	1	58	6	29	87	10	631	971	84	21	512	512	512
Number of children	44	2	125	21	73	193	19	1 439	2 123	92	56	740	740	740
Percent of total under 18 years	91.7	2	91.3	83.3	86.5	100.0	87.5	87.5	87.5	84.4	64.6	64.6	64.6	64.6
Families with other male head	2	-	2	-	2	3	1	31	30	1	1	1	1	1
With own children under 18 years	2	-	1	-	2	2	-	8	8	1	1	1	1	1
Number of children	3	-	1	-	2	8	-	17	14	1	1	1	1	1
Families with female head	3	-	10	8	8	19	1	71	74	1	1	16	16	16
With own children under 18 years	3	-	4	1	6	8	-	44	43	1	1	16	16	16
Number of children	3	-	4	1	6	8	-	91	91	1	1	16	16	16
Percent of total under 18 years	6.3	-	5.8	8.7	11.1	13.5	12.5	12.5	12.5	0.0	-	2.7	2.7	2.7
Persons under 18 years	48	2	143	23	90	218	19	1 668	2 290	109	68	782	782	782
MARITAL STATUS														
Male, 16 years old and over	91	2	139	17	170	371	31	1 944	2 746	2 411	3 140	1 549	1 549	1 549
Single	12	-	36	4	27	78	5	360	630	2 789	3 700	1 977	1 977	1 977
Married	72	2	98	12	94	172	15	1 108	1 722	319	40	1 155	1 155	1 155
Separated	1	-	1	-	1	6	1	6	13	1	1	2	2	2
Widowed	1	-	2	-	1	14	-	30	100	-	-	-	-	-
Divorced	1	-	2	-	1	3	6	28	84	3	3	1	1	1
Female, 16 years old and over	16	5	146	18	181	374	33	1 999	2 740	430	3 229	1 257	1 257	1 257
Single	9	1	30	2	20	53	5	291	380	138	2 688	98	98	98
Married	72	1	101	12	92	184	16	1 125	1 738	309	31	1 146	1 146	1 146
Separated	1	-	1	-	1	14	1	14	14	1	1	1	1	1
Widowed	5	3	10	2	3	79	2	155	259	1	8	1	1	1
Divorced	4	-	3	3	6	8	-	31	52	2	2	17	17	17

CENSUS TRACTS

LAFAYETTE—WEST LAFAYETTE, IND., SMSA P-3

Table P-1. General Characteristics of the Population: 1970—Continued

(For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

Census Tracts	Balance of Tippecanoe County—Con.					Totals for split tracts							
	Tract 0106	Tract 0107	Tract 0108	Tract 0109	Tract 0110	Tract 0001	Tract 0008	Tract 0009	Tract 0010	Tract 0014	Tract 0102	Tract 0106	Tract 0106
RACE													
All persons	4 183	3 843	3 885	4 402	3 590	3 947	3 944	2 293	3 440	4 187	4 278	5 813	5 813
White	4 170	3 834	3 874	4 394	3 584	3 945	3 949	2 256	3 421	4 150	4 268	5 803	5 803
Negro	11	9	11	8	6	19	5	3	14	—	1	13	13
Percent Negro	0.3	—	0.2	0.1	0.1	0.4	0.1	0.1	0.4	—	—	0.2	0.2
AGE BY SEX													
Male, all ages	3 163	1 919	1 906	3 253	1 748	1 479	1 799	1 137	1 715	3 027	3 112	3 778	3 778
Under 5 years	212	199	173	220	167	143	131	79	152	285	219	166	166
5 and 9 years	89	65	77	99	65	52	49	39	54	123	82	130	130
10 to 14 years	247	275	214	292	194	138	118	121	151	303	224	314	314
15 years	40	36	34	54	44	24	28	25	37	69	46	62	62
16 years	63	46	45	53	37	24	24	27	37	61	49	65	65
17 to 19 years	252	211	211	281	211	130	127	107	173	256	254	279	279
20 to 24 years	46	51	48	58	45	30	26	22	37	52	37	56	56
25 to 29 years	106	195	190	225	166	121	161	106	180	139	207	234	234
30 to 34 years	41	43	47	49	41	20	42	20	51	36	45	57	57
35 to 39 years	47	40	38	59	38	34	47	26	40	39	45	49	49
40 to 44 years	36	48	44	55	36	34	37	24	40	24	49	58	58
45 to 49 years	26	34	34	43	23	24	32	19	25	20	37	40	40
50 to 54 years	31	30	27	29	28	20	20	17	24	14	31	20	20
55 to 59 years	144	126	144	133	103	133	141	92	158	109	129	240	240
60 to 64 years	20	22	19	26	16	18	30	14	34	15	23	29	29
65 to 69 years	27	18	25	25	21	17	22	14	17	20	17	25	25
70 to 74 years	216	220	256	258	235	185	216	136	203	464	381	472	472
75 years and over	33	44	26	175	184	160	124	109	153	333	254	384	384
Female, all ages	2 123	1 924	1 979	3 150	1 841	1 518	1 643	1 156	1 725	3 160	2 966	3 835	3 835
Under 5 years	195	149	174	176	164	117	126	102	135	295	188	368	368
5 and 9 years	10	6	6	12	8	6	6	7	6	13	7	13	13
10 to 14 years	252	220	210	215	170	123	109	103	153	220	254	279	279
15 years	57	40	39	36	38	28	22	27	34	79	50	61	61
16 years	45	47	51	48	31	21	20	26	35	59	54	71	71
17 to 19 years	276	226	217	258	199	148	149	125	154	245	250	274	274
20 to 24 years	43	37	32	54	34	24	28	15	38	39	41	63	63
25 to 29 years	180	188	165	203	157	131	147	104	127	148	202	216	216
30 to 34 years	48	39	34	56	39	29	23	11	16	25	47	41	41
35 to 39 years	37	41	35	38	41	21	39	21	32	31	45	45	45
40 to 44 years	29	51	36	41	39	34	41	18	39	33	55	47	47
45 to 49 years	20	30	24	40	22	29	29	22	34	19	31	36	36
50 to 54 years	19	36	27	26	17	24	38	21	37	18	30	41	41
55 to 59 years	154	145	166	151	122	153	194	88	148	180	164	292	292
60 to 64 years	30	36	36	26	24	23	36	24	36	24	36	51	51
65 to 69 years	28	22	30	37	22	35	44	13	29	17	35	52	52
70 to 74 years	306	263	290	270	239	207	164	145	192	478	224	448	448
75 years and over	25	34	26	124	124	115	176	116	176	124	136	234	234
Female, 15 years and over	236	247	238	251	196	183	270	150	236	107	259	295	295
Female, 15 years and over	63	44	36	64	47	63	67	42	73	49	61	71	71
Female, 15 years and over	89	63	61	66	178	65	125	66	124	72	65	84	84
Female, 15 years and over	43	44	26	70	106	51	196	41	89	10	66	53	53
RELATIONSHIP TO HEAD OF HOUSEHOLD													
All persons	4 183	3 843	3 885	4 402	3 590	3 947	3 944	2 293	3 440	4 187	4 278	5 813	5 813
In households	4 280	3 840	3 805	4 402	3 556	3 967	3 968	2 293	3 452	4 167	4 136	5 805	5 805
Head of household	1 254	1 120	1 137	1 404	1 089	1 016	1 452	734	1 195	1 102	1 241	1 648	1 648
Head of family	1 164	1 074	1 037	1 148	936	832	1 123	604	862	1 045	1 141	1 529	1 529
Family individual	150	96	100	126	153	184	320	130	333	57	99	119	119
Wife of head	1 879	1 710	1 784	2 074	1 603	1 733	1 738	1 119	1 738	2 061	1 886	2 443	2 443
Other relative of head	1 076	1 040	1 033	1 204	1 069	1 185	1 367	996	1 416	2 063	1 950	2 443	2 443
Not related to head	61	30	51	30	25	33	71	46	103	41	30	59	59
In group quarters	5	2	—	—	—	—	—	—	—	—	—	—	—
Persons per household	3.41	3.45	3.35	3.46	3.27	2.92	2.66	3.13	2.89	3.78	3.50	3.40	3.40
TYPE OF FAMILY AND NUMBER OF OWN CHILDREN													
All families	1 104	1 024	1 037	1 144	838	772	1 178	804	863	1 043	1 141	1 399	1 399
With own children under 18 years	655	620	639	685	561	430	474	315	457	814	715	1 007	1 007
Number of children	1 570	1 308	1 366	1 651	1 286	862	944	699	1 061	1 860	1 617	2 104	2 104
Married-couple families	1 019	979	984	1 074	803	733	1 079	819	931	1 041	1 088	1 453	1 453
With own children under 18 years	610	586	605	643	530	380	424	281	396	747	680	956	956
Number of children	1 486	1 217	1 308	1 601	1 227	790	859	626	934	1 713	1 544	2 025	2 025
Percent of total under 18 years	95.5	90.1	91.3	90.2	91.6	82.0	84.7	81.2	82.3	89.7	91.7	91.7	91.7
Families with female head	18	11	9	18	19	21	31	24	25	17	11	15	15
With own children under 18 years	6	5	4	6	5	6	4	8	10	11	5	9	9
Number of children	13	11	11	14	12	10	14	11	14	24	9	19	19
Families with female head	47	45	44	59	54	78	123	59	99	47	44	61	61
With own children under 18 years	31	29	30	34	26	44	46	26	51	36	30	40	40
Number of children	71	60	63	72	60	68	82	53	123	62	52	70	70
Percent of total under 18 years	4.3	4.1	3.7	2.9	3.7	6.2	8.8	6.0	10.0	6.4	5.7	7.7	7.7
Persons under 18 years	1 642	1 464	1 433	1 730	1 329	964	1 003	771	1 135	1 909	1 695	2 187	2 187
MARITAL STATUS													
Male, 14 years old and over	1 493	1 371	1 358	1 527	1 242	1 048	1 449	835	1 378	1 335	1 523	1 917	1 917
Single	363	320	312	369	298	221	319	234	290	217	347	391	391
Married	1 072	1 004	994	1 109	888	764	1 015	548	776	978	1 122	1 469	1 469
Separated	9	12	14	12	12	10	12	18	14	4	4	4	4
Widowed	25	17	19	24	20	29	30	46	32	39	15	22	22
Divorced	23	20	23	25	17	33	25	49	31	25	31	34	34
Female, 14 years old and over	1 499	1 377	1 358	1 553	1 279	1 144	1 798	837	1 331	1 364	1 523	1 918	1 918
Single	274	253	237	298	241	190	351	144	275	216	275	298	298
Married	1 076	1 016	1 015	1 119	893	773	1 030	551	764	995	1 137	1 491	1 491
Separated	11	13	14	14	12	11	10	14	11	15	15	19	19
Widowed	100	87	80	123	163	146	378	92	177	47	106	166	166
Divorced	42	31	34	25	23	55	89	50	85	46	27	32	32

Table P-2. Social Characteristics of the Population: 1970

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Tappan County				Lafayette									
	Total	Lafayette	West Lafayette	Balance	Tract 0001	Tract 0002	Tract 0003	Tract 0004	Tract 0005	Tract 0006	Tract 0007	Tract 0008	Tract 0009	Tract 0010
NATIVITY, PARENTAGE, & COUNTRY OF ORIGIN														
All persons	108 878	44 955	19 157	45 344	1 848	3 346	3 037	3 113	1 106	1 779	3 881	9 855	1 431	1 431
Native of native parentage	101 342	42 428	16 006	42 309	2 794	3 162	2 987	2 987	1 074	1 508	2 492	3 063	1 259	1 259
Native of foreign or mixed parentage	5 536	2 527	1 151	1 803	64	180	105	126	31	54	37	79	66	66
Foreign born	2 705	518	1 133	1 054	10	35	23	20	10	23	24	59	6	6
Foreign born	8 055	2 537	3 931	3 931	54	144	139	158	28	64	99	253	73	73
United Kingdom (Ireland)	723	186	214	323	11	21	6	6	—	8	5	—	—	—
Ireland (Ireland)	164	69	6	89	—	3	—	—	—	—	—	—	—	—
Sweden	207	50	66	91	—	—	—	—	—	—	—	—	—	—
Finland	146	29	33	45	—	—	—	—	—	—	—	—	—	—
Poland	236	110	56	72	—	5	—	3	—	—	7	—	—	—
Czechoslovakia	146	29	33	45	—	—	—	—	—	—	—	—	—	—
Austria	189	41	34	34	—	—	22	—	—	—	—	—	—	—
Hungary	111	—	35	76	—	—	—	—	—	—	—	—	—	—
U.S.S.R.	250	27	154	69	—	—	—	—	—	—	—	—	—	—
Italy	288	156	40	112	13	3	9	—	—	—	11	29	—	—
Canada	911	344	242	325	—	8	20	8	5	—	—	107	—	—
Mexico	74	48	4	22	—	42	—	—	—	—	—	—	—	—
Cuba	57	32	4	21	—	—	—	—	—	—	—	—	—	—
Other America	325	78	118	179	—	—	—	—	—	—	—	—	—	—
All other not reported	2 738	715	1 085	938	20	69	47	51	21	32	21	116	28	28
Persons of Spanish language	1 109	440	200	389	42	134	25	8	7	20	—	—	—	—
Other groups of Spanish language	108	244	194	270	13	89	5	8	7	20	—	—	—	—
Persons of Spanish mother tongue	78	31	19	36	—	—	—	—	—	—	—	—	—	—
Persons of Puerto Rican birth or parentage	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SCHOOL ENROLLMENT														
Enrolled persons, 3 to 24 years old	42 084	18 146	18 119	30 183	718	991	818	825	908	39	683	844	344	344
Nursery school	9 497	251	340	276	6	17	6	17	14	—	6	10	12	12
Public	150	101	75	174	—	15	—	4	14	—	—	10	13	13
Kindergarten	1 717	803	563	691	63	79	63	39	—	—	23	34	41	41
Public	1 675	768	516	691	63	79	63	39	—	—	23	34	41	41
Elementary	14 299	6 643	2 029	5 427	467	519	444	416	120	5	321	424	211	211
Public	13 164	5 749	2 014	388	398	346	315	416	190	5	315	344	189	189
High school	6 165	2 805	842	2 518	164	205	237	155	40	—	124	215	75	75
Public	5 865	2 485	820	2 363	154	169	191	155	40	—	124	215	75	75
College	19 874	1 632	8 702	11 540	10	80	57	208	14	23	205	129	26	26
Percent enrolled in school by age	89.4	87.0	91.6	91.5	93.6	75.7	87.5	70.3	92.3	—	83.5	68.0	74.5	74.5
16 and 17 years	18	40.7	87.8	90.9	43.9	33.4	44	28.1	10.9	28.9	18.0	49.6	7.6	7.6
20 and 21 years	74.3	20.7	91.6	75.4	9.2	10.4	13.1	53.0	28.9	10.4	48.7	11.7	—	—
22 to 24 years	15.4	7.3	12.7	15.4	—	18.7	31.8	31.8	—	—	—	—	—	—
25 to 34 years	19.5	8.4	15.0	23.8	—	2.6	6.5	11.7	26.2	4.4	10.4	10.4	7.0	7.0
Percent 16 to 21 years not high school graduates and not enrolled in school	6.4	19.8	1.3	3.4	19.1	15.8	14.1	24.2	28.4	20.8	31.9	16.8	51.1	51.1
YEARS OF SCHOOL COMPLETED														
Persons, 25 years old and over	50 431	24 218	7 814	18 379	1 588	1 894	1 743	1 825	884	447	1 308	3 419	996	996
No school years completed	208	132	12	64	12	10	11	12	—	—	—	15	4	4
Elementary	405	261	32	212	25	28	10	27	27	7	37	25	24	24
5 to 7 years	2 431	1 544	96	811	121	158	40	231	55	52	137	160	155	155
8 years	5 475	3 275	166	2 034	200	345	207	291	192	136	202	291	254	254
High school	7 543	4 252	208	3 083	448	395	190	407	150	68	252	474	372	372
4 years	17 958	9 646	1 414	6 898	680	736	898	380	182	73	361	1 055	237	237
College	5 807	2 456	1 157	2 194	69	77	194	67	53	38	105	176	35	35
4 years or more	10 384	2 579	4 439	3 166	20	75	198	70	15	73	114	233	73	73
Median school years completed	12.5	12.3	13.5	12.4	11.9	11.8	12.5	9.8	10.1	10.2	11.7	12.2	10.1	10.1
Percent high school graduates	67.7	60.6	92.3	66.7	48.7	48.7	74.0	31.8	40.1	41.2	48.0	58.8	29.8	29.8
CHILDREN EVER BORN														
Women, 35 to 44 years old ever married	4 811	3 379	728	1 910	166	154	331	134	54	18	161	156	66	66
Children ever born	14 780	7 093	2 033	5 054	426	493	706	625	191	40	426	493	141	141
Per 1,000 women ever married	3 010	3 121	2 793	2 960	2 533	3 160	3 056	4 664	3 727	—	4 218	2 756	2 356	2 356
RESIDENCE IN 1965														
Persons, 25 years old and over, 1970	100 640	40 541	17 975	41 404	1 567	3 075	3 944	3 806	1 001	551	2 351	3 700	1 457	1 457
Some house as in 1970	40 558	20 885	4 372	15 401	1 597	1 806	1 800	1 130	421	88	798	2 223	1 090	1 090
Different house	16 527	9 554	2 526	4 347	424	838	557	900	256	110	671	680	379	379
In central city of this SMSA	5 308	1 314	143	4 051	95	127	65	60	39	31	68	123	13	13
In other part of this SMSA	31 153	6 758	9 344	15 053	399	399	279	618	156	168	371	406	127	127
Outside this SMSA	28 071	5 913	8 356	13 800	341	308	195	635	96	127	335	383	107	107
North and West	3 084	645	956	1 253	58	81	64	43	40	41	36	76	20	20
South	1 852	295	798	759	—	26	17	7	—	14	—	38	—	—
Abroad	—	—	—	—	—	—	—	—	—	—	—	—	—	—
MEANS OF TRANSPORTATION AND PLACE OF WORK														
All workers	44 810	18 377	8 647	14 988	1 044	1 397	1 347	1 325	509	339	1 184	1 941	347	347
Private auto	29 927	13 635	5 033	11 259	869	976	1 058	705	219	69	498	1 407	537	537
Public transit	4 232	2 245	1 072	1 072	97	197	150	160	64	38	236	263	60	60
Bus or streetcar	559	441	38	80	34	54	23	30	39	37	28	66	27	27
Subway, elevated train, or railroad	5 758	1 327	2 050	1 861	—	77	49	24	—	152	98	113	84	128
Walked to work	1 908	271	475	1 162	39	18	30	7	—	40	52	15	—	—
Worked at home	1 527	540	183	794	—	83	17	54	—	—	—	—	—	—
Other	38 364	16 647	7 244	14 478	958	1 294	1 206	1 120	410	245	1 067	1 746	472	472
Outside SMSA	21 135	12 905	5 419	6 411	797	1 027	1 070	891	323	212	827	1 306	426	426
Lafayette city	12 076	1 924	5 419	4 835	97	118	139	185	64	14	157	279	24	24
West Lafayette city	5 152	1 073	2 008	3 037	64	152	177	144	73	14	95	211	22	22
Remainder of Tappan County	2 705	492	592	1 621	40	23	14	27	6	33	62	—	—	—
Place of work not reported	2 941	1 443	611	887	68	80	57	78	87	78	71	123	75	75

*See text for definition. Includes "Moved, 1965 residence not reported."

Table P-2. Social Characteristics of the Population: 1970-Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.]

Census Tracts	Lafayette - Con.								West Lafayette							
	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0107	Tract 0108		Tract 0051	Tract 0052	Tract 0053	Tract 0054	Tract 0055	Tract 0102	Tract 0103	
NATIVITY, PARENTAGE, AND COUNTRY OF ORIGIN																
All persons	2 404	4 043	3 374	1 752	2 481	279	1 648		3 343	4 899	3 411	3 788	2 816	434	34	
Native of native parentage	2 215	3 754	3 252	1 656	2 404	409	1 230		2 954	4 102	2 931	3 406	2 446	242	730	36
Native of foreign or mixed parentage	121	229	194	244	192	41	23		243	561	246	176	122	69		
Foreign born	40	42	37	152	34	10	26		156	236	214	216	276	35		
Europe	115	371	321	396	274	31	49		399	797	646	392	399	104		
United Kingdom	20	6	12	34	57	-	-		54	85	35	32	38	-		
Ireland (Eire)	-	8	16	22	-	-	-		-	-	6	-	-	-		
Denmark	17	4	13	3	4	-	-		-	19	20	5	12	-		
Germany	59	110	58	56	57	36	-		70	144	41	100	51	25		
Poland	22	17	14	19	31	-	-		13	22	22	16	-	-		
Czechoslovakia	39	17	14	19	31	-	-		14	14	22	16	-	-		
Austria	-	7	7	-	9	-	-		15	14	-	-	3	-		
Hungary	-	-	16	35	-	-	-		7	-	10	4	15	-		
U.S.S.R.	-	6	8	-	-	-	10		22	26	22	33	-	-		
Italy	-	35	10	125	28	6	-		43	50	100	22	10	17		
Canada	-	-	-	6	-	-	-		-	4	-	-	-	-		
Mexico	-	9	-	6	-	-	-		-	7	-	-	-	-		
Other	-	-	-	-	-	-	-		-	-	-	-	-	-		
Other America	-	-	-	28	-	-	-		7	50	27	23	11	-		
All other and not reported	20	78	40	41	40	-	-		300	163	141	237	58	-		
Persons of Spanish language	16	-	18	53	29	-	30		53	29	95	55	36	19		
Other persons of Spanish language	-	-	-	-	-	-	-		-	-	-	-	-	-		
Persons of Spanish mother tongue	9	-	8	40	15	-	24		21	25	51	55	36	8		
Persons of Puerto Rican birth or parentage	-	-	-	-	31	-	-		-	-	-	-	19	-		
SCHOOL ENROLLMENT *																
Enrolled persons, 5 to 34 years old	729	1 379	908	1 824	1 407	179	488		1 556	1 933	1 410	2 738	1 144	290	-	
Nursery School	21	17	-	29	60	-	22		74	136	42	27	21	16	-	
Public	21	17	-	29	60	-	22		74	136	42	27	21	16	-	
Kindergarten	43	40	47	131	113	6	44		56	76	26	28	10	6	-	
Public	43	40	47	131	113	6	44		56	76	26	28	10	6	-	
Elementary	400	530	497	1 052	838	144	230		541	674	373	109	89	91	-	
Public	360	431	417	980	810	132	197		536	626	372	105	79	91	-	
High school	181	266	222	474	291	11	106		154	415	174	48	16	38	-	
Public	162	215	200	466	258	11	90		134	393	174	45	16	38	-	
College	147	203	151	158	115	17	86		705	515	808	2 528	2 010	136	-	
Percent enrolled in school by age																
16 and 17 years	54.2	91.7	90.2	99.9	78.4	...	99.9		99.9	81.2	99.9	...	...	56.0		
18 and 19 years	46.2	35.8	60.7	75.2	19.7	...	56.0		74.3	96.2	85.7	94.8	78.7	...		
20 and 21 years	28.8	6.6	6.9	6.9	6.9	...	31.8		94.3	69.1	75.3	92.6	99.9	72.7		
22 to 24 years	70.2	20.3	19.1	8.9	4.7	...	7.0		47.4	69.8	66.9	79.0	86.2	55.2		
25 to 34 years	6.8	10.7	16.8	8.2	10.3	12.3	15.7		20.8	28.7	35.9	47.5	62.1	4.7		
Percent 16 to 21 years not high school graduates and not enrolled in school	38.5	10.5	11.9	3.2	11.3	...	11.4		0.8	3.6	2.7	0.7	-	-		
YEARS OF SCHOOL COMPLETED																
Persons, 25 years old and over	1 441	2 384	1 551	2 554	1 754	237	735		1 384	2 442	1 778	3 011	718	403	-	
No school years completed	24	13	22	4	-	-	-		-	7	5	-	-	-	-	
Elementary	40	10	43	2	-	-	10		8	14	4	4	4	-	-	
5 to 7 years	125	62	136	60	18	-	14		27	34	18	10	-	7	-	
8 years	232	230	262	112	99	35	22		15	47	56	28	16	4	-	
High school	765	307	403	320	234	42	79		24	81	63	17	43	14	-	
1 to 3 years	408	1 086	901	1 267	890	110	300		318	482	354	135	79	46	-	
College	217	210	154	252	268	44	170		179	264	265	132	67	43	-	
4 years or more	435	238	200	440	247	4	146		815	1 583	1 013	489	487	252	-	
Median school years completed	12.5	12.5	12.2	12.6	12.6	12.4	12.8		14.4	16.5	16.3	16.4	16.9	16.5	-	
Percent high school graduates	63.1	73.1	59.7	80.5	60.0	67.5	83.8		94.2	93.1	91.8	87.1	91.2	83.8	-	
CHILDREN EVER BORN																
Women, 35 to 44 years old ever married	153	191	155	324	299	31	48		144	344	123	30	37	41	-	
Children ever born	580	639	490	958	697	56	166		541	965	375	72	46	53	-	
Per 1,000 women ever married	3 816	3 346	2 710	2 912	2 916	...	2 441		3 799	2 879	2 642	...	1 438	1 293	-	
RESIDENCE IN 1965																
Persons, 5 years old and over, 1970	1 316	2 301	1 602	4 686	3 998	450	1 373		3 067	4 546	3 177	3 871	2 581	783	38	
Same house as in 1970	1 402	2 168	1 682	2 535	1 645	110	235		409	1 675	970	490	361	235	-	
Different house	782	906	875	951	742	151	352		308	605	580	233	167	213	-	
In central city of this SMSA	118	63	118	154	53	25	125		1 827	1 594	1 718	2 570	1 805	276	-	
In other part of this SMSA	477	499	529	960	718	118	501		1 579	1 502	1 176	2 420	1 643	276	-	
Outside this SMSA	477	499	529	960	718	118	501		1 579	1 502	1 176	2 420	1 643	276	-	
North and West	477	499	529	960	718	118	501		1 579	1 502	1 176	2 420	1 643	276	-	
South	5	6	42	67	119	90	6		288	292	84	150	162	-	-	
Abroad	24	8	-	80	36	9	56		78	152	117	256	7	-	-	
MEANS OF TRANSPORTATION AND PLACE OF WORK																
All workers	1 167	1 749	1 416	1 529	1 514	163	665		1 740	1 993	1 497	1 478	1 500	368	38	
Private auto	969	1 367	961	1 840	1 221	131	568		1 539	1 577	962	543	465	293	36	
Passenger	139	259	200	148	210	27	86		167	156	169	168	55	21	-	
Bus or streetcar	6	12	48	12	5	-	5		-	-	-	-	-	-	-	
Subway, elevated train, or railroad	-	-	-	-	-	-	-		-	-	-	-	-	-	-	
Walked to work	54	65	94	60	41	5	6		11	127	281	733	876	22	-	
Worried at home	14	15	17	6	18	-	-		8	56	57	265	42	32	-	
Other	5	31	79	56	19	-	-		35	77	30	19	24	-	-	
Inside SMSA	1 003	1 570	1 287	1 834	1 418	155	552		1 729	1 716	1 261	1 383	1 329	316	-	
Lafayette city	638	1 203	1 037	1 481	1 007	134	319		415	451	258	145	253	77	-	
West Lafayette city	274	123	135	114	200	6	83		761	1 027	949	1 186	1 007	207	-	
Remainder of Tappan County	141	242	115	239	196	15	150		63	58	54	32	69	32	-	
Outside SMSA	17	81	70	70	29	9	69		69	131	67	165	119	21	-	
Place of work not reported	167	98	90	218	47	8	63		72	146	164	110	52	31	36	

*See text for definition. Includes "Moved, 1965 residence not reported."

Table P-2. Social Characteristics of the Population: 1970—Continued

(Data base is census, by tract. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

Census Tracts	Distance of Trappee County									
	Tract 0009	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0015	Tract 0016	Tract 0017	Tract 0018
NATIVITY, PARENTAGE, & COUNTRY OF ORIGIN										
All persons	253	—	260	—	219	713	39	4 594	7 079	2 508
Native of native parentage	253	—	260	—	219	713	39	4 594	7 079	2 508
Native of foreign or mixed parentage	—	—	—	—	—	—	—	—	—	—
Foreign born	—	—	—	—	—	—	—	—	—	—
Foreign stock	—	—	—	—	—	—	—	—	—	—
United Kingdom	—	—	—	—	—	—	—	—	—	—
Ireland (Eire)	—	—	—	—	—	—	—	—	—	—
Sweden	—	—	—	—	—	—	—	—	—	—
Germany	—	—	—	—	—	—	—	—	—	—
Poland	—	—	—	—	—	—	—	—	—	—
Czechoslovakia	—	—	—	—	—	—	—	—	—	—
Austria	—	—	—	—	—	—	—	—	—	—
Hungary	—	—	—	—	—	—	—	—	—	—
U.S.S.R.	—	—	—	—	—	—	—	—	—	—
Italy	—	—	—	—	—	—	—	—	—	—
Canada	—	—	—	—	—	—	—	—	—	—
Mexico	—	—	—	—	—	—	—	—	—	—
Cuba	—	—	—	—	—	—	—	—	—	—
Other America	—	—	—	—	—	—	—	—	—	—
All other and not reported	—	—	—	—	—	—	—	—	—	—
Persons of Spanish language	—	—	—	—	—	—	—	—	—	—
Other persons of Spanish language	—	—	—	—	—	—	—	—	—	—
Persons of Spanish mother tongue	—	—	—	—	—	—	—	—	—	—
Persons of Puerto Rican birth or parentage	—	—	—	—	—	—	—	—	—	—
SCHOOL ENROLLMENT										
Enrolled persons, 3 to 24 years old	11	—	—	—	79	320	—	1 203	3 468	3 791
Elementary school	—	—	—	—	—	—	—	—	—	—
Public	—	—	—	—	—	—	—	—	—	—
Private	—	—	—	—	—	—	—	—	—	—
High school	—	—	—	—	—	—	—	—	—	—
Elementary	—	—	—	—	—	—	—	—	—	—
Public	—	—	—	—	—	—	—	—	—	—
Private	—	—	—	—	—	—	—	—	—	—
College	—	—	—	—	—	—	—	—	—	—
Percent enrolled in school by age	—	—	—	—	—	—	—	—	—	—
16 and 17 years	—	—	—	—	—	—	—	—	—	—
18 and 19 years	—	—	—	—	—	—	—	—	—	—
20 and 21 years	—	—	—	—	—	—	—	—	—	—
22 to 24 years	—	—	—	—	—	—	—	—	—	—
25 to 34 years	—	—	—	—	—	—	—	—	—	—
Percent 16 to 21 years not high school graduates and not enrolled in school	—	—	—	—	—	—	—	—	—	—
YEARS OF SCHOOL COMPLETED										
Persons, 25 years old and over	110	—	111	—	195	458	27	3 378	3 416	3 31
No school years completed	—	—	—	—	—	—	—	—	—	—
Elementary	—	—	—	—	—	—	—	—	—	—
1 to 4 years	—	—	—	—	—	—	—	—	—	—
5 to 7 years	—	—	—	—	—	—	—	—	—	—
8 years	—	—	—	—	—	—	—	—	—	—
9 to 11 years	—	—	—	—	—	—	—	—	—	—
12 years	—	—	—	—	—	—	—	—	—	—
College	—	—	—	—	—	—	—	—	—	—
4 years or more	—	—	—	—	—	—	—	—	—	—
Median school years completed	12.0	—	11.1	—	12.3	14.5	12.6	12.1	12.6	12.6
Percent high school graduates	76.5	—	62.7	—	85.4	74.1	66.7	52.9	66.6	100.0
CHILDREN EVER BORN										
Women, 15 to 44 years old ever married	16	—	16	—	27	27	—	324	394	—
Children ever born	47	—	47	—	83	83	—	598	955	—
Per 1,000 women ever married	—	—	—	—	3.04	3.07	—	2.470	2.448	—
RESIDENCE IN 1965										
Persons, 5 years old and over, 1970	211	—	211	—	251	705	39	3 967	3 958	3 077
Some house as in 1970	40	—	40	—	123	290	30	2 237	2 542	304
Different house	—	—	—	—	—	—	—	—	—	—
In central city of this SMSA	81	—	81	—	122	51	—	351	563	93
In other part of this SMSA	—	—	—	—	—	—	—	—	—	—
Outside this SMSA	117	—	117	—	110	265	—	376	2 220	2 325
North and West	110	—	110	—	110	265	—	376	2 220	2 325
South	—	—	—	—	—	—	—	—	—	—
Abroad	7	—	7	—	37	62	—	17	283	107
MEANS OF TRANSPORTATION AND PLACE OF WORK										
All workers	151	—	151	—	261	751	18	1 851	3 794	1 184
Private auto	57	—	57	—	143	173	12	1 354	2 118	411
Passenger	—	—	—	—	—	—	—	—	—	—
Bus or streetcar	64	—	64	—	34	42	5	224	303	162
Walked to work	—	—	—	—	—	—	—	—	—	—
Subway, elevated train, or railroad	—	—	—	—	—	—	—	—	—	—
Worked at home	12	—	12	—	—	—	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—
In SMSA	116	—	116	—	199	166	18	1 661	2 414	774
Lafayette city	101	—	101	—	131	50	13	801	802	101
West Lafayette city	15	—	15	—	12	66	5	243	1 183	585
Remainder of Trappee County	—	—	—	—	—	—	—	—	—	—
Outside SMSA	—	—	—	—	—	—	—	—	—	—
Place of work not reported	17	—	17	—	7	46	—	90	50	47

See text for definition. Includes "Moved, 1965 residence not reported."

Table P-2. Social Characteristics of the Population: 1970—Continued

(Data based on sample, see text. For minimum data for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Balance of Tippecanoe County—Con					Totals for split tracts									
	Tract 0101	Tract 0102	Tract 0103	Tract 0104	Tract 0105	Tract 0201	Tract 0202	Tract 0203	Tract 0204	Tract 0205	Tract 0206	Tract 0207	Tract 0208	Tract 0209	Tract 0210
NATIVITY, PARENTAGE, & COUNTRY OF ORIGIN															
All persons	4 373	3 171	2 352	4 432	3 508	3 103	2 955	3 439	3 408	4 520	4 299	5 232	5 123	5 123	5 123
Native of native parentage	3 977	3 552	3 358	4 203	3 411	3 027	3 603	2 350	3 243	3 940	3 940	4 005	5 123	5 123	5 123
Native of foreign or mixed parentage	171	121	152	152	152	152	152	152	152	152	152	152	152	152	152
Foreign born	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216
Foreign stock	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216
United Kingdom	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Ireland (Eire)	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Sweden	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Germany	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Poland	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Czechoslovakia	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Austria	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Hungary	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
U.S.S.R.	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Italy	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Canada	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Mexico	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Cuba	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Other America	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
All other and not reported	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
Persons of Spanish language ¹	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Other persons of Spanish ancestry ¹	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Persons of Spanish mother tongue	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Persons of Puerto Rican birth or parentage	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
SCHOOL ENROLLMENT															
Enrolled persons, 5 to 24 years old	1 316	1 277	1 323	1 432	1 099	796	868	848	792	1 484	1 459	1 818	1 818	1 818	1 818
Nursery school	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Public	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Kindergarten	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Public	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Elementary	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712
Public	712	712	712	712	712	712	712	712	712	712	712	712	712	712	712
High school	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216
Public	216	216	216	216	216	216	216	216	216	216	216	216	216	216	216
College	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Percent enrolled in school by age															
16 and 17 years	13.3	9.1	21.0	90.9	78.4	13.8	88.0	66.7	56.2	78.6	92.2	82.6	82.6	82.6	82.6
18 and 19 years	10.6	6.9	25.7	30.5	62.1	10.6	21.1	66.3	20.5	16.4	54.6	54.6	54.6	54.6	54.6
20 and 21 years	5.2	5.7	22.2	16.3	8.6	12.9	11.2	—	28.8	3.3	57.3	27.3	27.3	27.3	27.3
22 to 24 years	9.2	11.7	10.2	10.2	5.0	10.2	15.8	5.0	—	12.2	12.2	12.2	12.2	12.2	12.2
25 to 34 years	9.5	7.5	9.0	6.7	—	5.0	10.3	5.3	6.8	9.8	6.8	11.9	11.9	11.9	11.9
Percent 16 to 21 years not high school graduates and not enrolled in school	19.0	6.5	11.7	14.0	5.2	16.3	17.9	44.4	32.5	14.5	7.5	11.6	11.6	11.6	11.6
YEARS OF SCHOOL COMPLETED															
Persons, 25 years old and over	2 144	1 951	1 971	2 201	1 925	1 699	2 084	1 977	1 881	1 954	1 995	3 644	3 644	3 644	3 644
No school years completed	12	4	—	4	—	17	15	4	24	—	4	—	—	—	—
Elementary	11	17	—	43	10	25	25	24	40	2	17	19	19	19	19
5 to 7 years	126	51	—	51	24	134	100	179	125	18	51	97	97	97	97
8 years	245	101	250	227	253	200	391	273	232	107	216	260	260	260	260
High school	445	272	516	457	330	465	439	320	265	253	334	381	381	381	381
4 years	732	920	1 013	1 040	866	723	1 055	1 022	688	978	1 142	1 142	1 142	1 142	1 142
1 to 3 years	227	225	244	223	190	94	176	28	232	320	271	414	414	414	414
College	208	366	187	160	195	74	233	97	435	276	270	323	323	323	323
Median school years completed	12.3	12.5	12.7	12.3	12.3	12.0	12.2	10.3	12.5	12.6	12.5	12.5	12.5	12.5	12.5
Percent high school graduates	59.9	72.1	68.6	62.4	65.2	50.5	58.7	32.7	63.1	80.6	71.6	71.4	71.4	71.4	71.4
CHILDREN EVER BORN															
Women, 35 to 44 years old ever married	355	212	232	249	221	355	196	16	152	378	284	331	331	331	331
Children ever born	725	624	675	605	668	475	697	179	500	790	880	865	865	865	865
Per 1 000 women ever married	3 033	3 133	2 650	3 007	3 014	2 568	2 536	2 295	3 016	2 842	3 099	2 613	2 613	2 613	2 613
RESIDENCE IN 1965															
Persons, 5 years old and over, 1970	3 892	2 479	3 325	4 636	3 260	3 505	2 700	3 112	3 114	3 478	3 928	4 698	4 698	4 698	4 698
Same house as in 1970	1 983	1 661	1 520	2 061	1 771	1 632	2 322	1 368	1 652	1 768	1 971	1 761	1 761	1 761	1 761
Different house	1 909	818	1 805	2 575	1 489	1 873	1 388	1 744	1 462	1 710	1 957	2 937	2 937	2 937	2 937
In central city of this SMSA	572	520	331	535	197	505	600	466	782	804	671	1 183	1 183	1 183	1 183
In other part of this SMSA	379	174	161	702	772	95	122	42	116	38	58	309	309	309	309
Outside this SMSA	602	312	275	321	460	507	407	299	477	878	632	1 080	1 080	1 080	1 080
North and West	613	505	275	420	443	451	383	215	472	751	617	931	931	931	931
South	79	8	103	12	17	50	26	24	5	127	15	149	149	149	149
Abroad	15	6	26	—	—	7	38	—	24	36	15	94	94	94	94
MEANS OF TRANSPORTATION AND PLACE OF WORK															
All workers	1 621	1 444	1 416	1 697	1 567	1 199	1 941	954	1 187	1 715	1 407	2 078	2 078	2 078	2 078
Private auto, driver	1 176	1 204	1 000	1 402	804	926	1 407	715	969	1 369	1 335	1 568	1 568	1 568	1 568
Passenger	124	90	290	124	82	156	262	89	124	244	117	376	376	376	376
Bus or streetcar	28	—	11	—	—	34	66	22	6	5	—	16	16	16	16
Subway, elevated train, or railroad	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Walked to work	27	20	7	21	35	32	8	120	54	47	57	57	57	57	57
Worked at home	126	22	22	97	265	51	15	—	14	16	22	22	22	22	22
Other	145	98	44	53	81	—	107	—	—	—	—	—	—	—	—
Inside SMSA	1 464	1 286	1 222	1 510	1 125	1 074	1 746	871	1 003	1 597	1 441	1 774	1 774	1 774	1 774
Lafayette city	761	903	902	827	471	898	1 306	771	638	1 133	1 037	1 224	1 224	1 224	1 224
West Lafayette city	367	137	129	243	28	119	229	24	224	232	143	217	217	217	217
Remainder of Tippecanoe County	336	716	108	438	636	64	711	76	141	232	261	326	326	326	326
Outside SMSA	60	61	87	90	76	43	62	8	17	84	61	114	114	114	114
Place of work not reported	89	97	103	97	34	85	123	75	167	54	105	191	191	191	191

¹See text for definition. Includes "Moved, 1965 residence not reported."

Table P-3. Labor Force Characteristics of the Population: 1970

[Data based on sample, see text. For minimum basis for derived figures (percent, median, etc.) and meaning of symbols, see text.]

Census Tracts	Tippecanoe County				Lafayette									
	Total	Lafayette	West Lafayette	Balance	Tract 0001	Tract 0002	Tract 0003	Tract 0004	Tract 0005	Tract 0006	Tract 0007	Tract 0008	Tract 0009	
EMPLOYMENT STATUS														
Male, 16 years old and over	42 792	34 457	6 410	17 137	953	1 850	1 237	938	436	281	870	1 588	477	
Labor force	29 180	21 654	5 379	11 738	792	1 511	925	702	227	218	554	1 011	519	
Percent of total	71.6	62.1	66.4	65.2	83.4	81.0	65.1	74.6	75.3	76.9	78.9	80.4	82.6	
Civilian labor force	28 033	21 024	5 457	11 572	792	1 511	925	702	227	218	554	1 011	519	
Employed	28 046	21 450	5 518	11 566	784	1 509	913	622	206	216	543	1 064	515	
Unemployed	807	574	139	34	8	2	12	80	21	—	11	47	5	
Percent of civilian labor force	2.8	2.7	2.5	0.3	0.8	0.1	1.3	11.4	6.4	—	—	4.5	0.9	
Not in labor force	11 604	7 803	6 129	15 199	161	339	312	236	107	65	175	266	118	
Inmate of institution	450	183	—	242	—	—	—	—	—	—	—	—	—	
Enrolled in school	6 020	716	2 401	4 821	40	29	87	61	37	11	—	27	22	
Other under 65 years	1 113	602	1 607	249	20	35	40	13	16	13	48	29	44	
Other 65 years and over	2 021	1 693	261	667	60	125	63	102	27	41	73	145	32	
Female, 16 to 35 years old	11 317	7 036	3 921	6 643	196	322	330	161	86	37	186	144	86	
Not enrolled in school	1 377	777	192	508	26	31	62	104	39	21	100	57	43	
Not high school graduates	577	401	36	140	16	20	13	49	23	5	41	29	49	
Unemployed or not in labor force	192	147	12	32	3	12	6	17	7	—	19	9	23	
Female, 36 years old and over	29 448	16 899	6 817	15 700	929	1 319	1 149	1 232	439	311	1 042	1 738	414	
Labor force	17 512	7 685	6 312	12 404	424	825	698	691	211	167	607	857	726	
Percent of total	44.8	45.5	46.8	42.5	43.9	46.0	45.7	52.8	48.7	53.7	58.3	49.3	30.9	
Civilian labor force	17 502	7 685	6 312	12 404	424	825	698	691	211	167	607	857	726	
Employed	16 808	7 343	6 123	12 342	428	849	734	695	211	167	607	857	726	
Unemployed	754	345	46	315	16	20	29	44	21	28	26	50	5	
Percent of civilian labor force	4.3	4.5	0.7	2.5	3.7	2.4	4.1	6.4	10.0	16.8	4.4	5.8	2.2	
Not in labor force	21 871	9 191	3 650	9 000	565	724	635	635	241	144	435	881	290	
Married women, husband present	23 123	10 291	7 359	9 466	679	815	807	996	193	82	505	972	428	
In labor force	9 914	4 396	4 415	4 073	205	325	347	270	84	65	268	491	162	
With own children under 6 years	7 235	3 196	915	2 126	218	291	251	182	47	27	128	161	116	
In labor force	2 114	952	211	950	64	49	68	87	19	17	63	73	35	
OCCUPATION														
Total employed, 16 years old and over	44 856	30 090	6 441	17 610	1 162	1 357	1 410	1 276	498	358	1 234	1 871	734	
Professional, technical, and kindred workers	10 650	2 832	4 316	2 533	80	127	231	145	63	56	144	286	62	
Health workers	1 304	551	295	402	21	30	64	64	9	5	44	60	32	
Teachers, elementary and secondary schools	1 271	643	406	472	21	31	34	4	—	16	50	55	21	
Managers and administrators, except farm	2 045	1 467	792	1 073	65	98	171	104	50	6	68	117	11	
Selected	2 251	1 296	670	803	65	66	154	44	46	4	60	111	6	
Self-employed in retail trade	219	97	25	97	—	17	11	—	4	—	—	—	—	
Sales workers	2 839	1 471	995	927	68	104	109	39	35	12	71	192	47	
Retail trade	1 758	923	216	617	35	74	81	46	31	4	45	141	14	
Clerical and kindred workers	2 731	2 500	1 051	2 783	217	271	274	215	50	80	200	389	85	
Craftsmen, foremen, and kindred workers	1 358	1 242	1 179	1 219	319	215	220	177	28	42	165	223	178	
Construction craftsmen	1 743	914	79	750	91	113	89	74	5	14	55	38	71	
Mechanics and repairmen	1 079	503	81	550	68	23	16	27	3	14	22	57	24	
Operatives, except transport	1 294	706	236	720	138	180	158	66	17	164	260	140	70	
Transport equipment operatives	1 481	595	228	657	29	60	37	28	23	—	73	80	70	
Laborers, except farm	1 481	595	228	657	29	60	6	68	29	17	59	72	57	
Farm workers	1 227	55	159	1 012	—	4	—	—	—	—	—	—	—	
Service workers	6 467	2 701	871	2 895	178	209	159	334	105	123	249	194	77	
Cleaning and food service workers	4 239	1 515	620	2 104	95	118	70	169	56	74	186	90	43	
Protective service workers	417	292	48	97	19	23	29	18	—	—	—	—	—	
Personal and health service workers	1 426	687	165	574	68	36	140	29	8	55	75	5	—	
Private household workers	519	273	64	182	17	13	37	43	19	—	31	17	11	
Female employed, 16 years old and over	10 650	7 363	3 122	6 342	600	549	505	654	190	128	581	827	323	
Professional, technical, and kindred workers	3 795	1 031	1 524	1 220	31	51	92	61	13	16	90	146	25	
Teachers, elementary and secondary schools	914	274	339	301	—	22	25	—	—	11	37	40	10	
Managers and administrators, except farm	2 860	282	109	189	17	16	20	5	9	—	16	27	—	
Sales workers	1 255	665	163	465	25	53	54	48	20	4	38	77	30	
Clerical and kindred workers	5 572	2 613	854	2 105	149	177	171	185	50	63	160	218	73	
Secretaries, stenographers, and typists	2 132	927	463	797	23	70	73	71	24	—	59	90	32	
Operatives, including transport	1 264	687	84	473	55	51	46	59	16	13	85	94	29	
Other blue-collar workers	420	216	33	171	0	34	13	17	6	7	12	—	16	
Farm workers	6 467	2 701	871	2 895	178	209	159	334	105	123	249	194	77	
Service workers, except private household	3 379	1 567	303	1 562	106	152	72	222	57	36	142	128	37	
Private household workers	496	262	60	174	17	13	37	37	19	—	26	17	11	
INDUSTRY														
Total employed, 16 years old and over	44 856	30 090	6 441	17 610	1 162	1 357	1 410	1 276	498	358	1 234	1 871	734	
Construction	3 040	1 476	267	297	123	175	122	83	24	23	83	93	140	
Manufacturing	8 294	4 361	875	2 258	258	371	234	253	58	24	201	449	182	
Durable goods	5 738	2 985	459	2 294	209	262	260	201	29	18	211	262	158	
Transportation	10 700	4 500	73	447	65	29	21	20	19	—	28	60	24	
Communications, utilities, and sanitary services	913	813	100	200	25	21	45	65	10	12	38	75	46	
Wholesale trade	1 055	580	136	239	6	23	26	20	5	14	17	27	11	
Retail trade	6 839	3 376	768	2 895	235	215	238	205	122	48	273	387	74	
Finance, insurance, and real estate	2 019	982	321	716	22	55	81	34	15	8	43	57	43	
Business and repair services	6 641	406	132	303	37	23	19	17	8	21	18	63	—	
Personal services	1 754	973	246	636	29	73	72	31	69	9	69	72	47	
Health services	2 701	1 429	422	850	96	137	97	246	15	40	98	149	11	
Educational services	11 294	2 469	4 416	4 502	78	158	149	157	57	66	204	222	88	
Other professional and related services	1 779	772	458	549	40	33	58	23	72	24	74	21	21	
Public administration	1 053	697	176	528	46	58	58	18	—	—	30	49	15	
Other industries	1 546	319	247	1 280	24	24	20	25	48	7	4	44	—	
CLASS OF WORKER														
Total employed, 16 years old and over	44 856	30 090	6 441	17 610	1 162	1 357	1 410	1 276	498	358	1 234	1 871	734	
Private wage and salary workers	29 771	14 684	3 566	11 121	961	1 074	1 110	1 017	331	248	971	1 514	577	
Government workers	11 274	2 469	4 416	5 012	149	219	237	223	73	66	224	272	125	
Local government workers	2 487	1 171	548	768	56	51	70	38	43	24	94	101	55	
Self-employed workers	2 435	821	376	1 238	55	64	51	36	42	11	19	92	36	
Unpaid family workers	3 30	34	51	245	5	—	—	—	—	—	—	—	—	

*Includes allocated cases, not shown separately.

CENSUS TRACTS

LAFAYETTE—WEST LAFAYETTE, IND., SMSA P-9

Table P-3. Labor Force Characteristics of the Population: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Lafayette—Con.								West Lafayette							
	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0107	Tract 0108		Tract 0051	Tract 0052	Tract 0053	Tract 0054	Tract 0055	Tract 0102	Tract 0103	
EMPLOYMENT STATUS																
Male, 16 years old and over	1 164	1 373	1 199	1 495	1 681	122	816		1 383	1 253	1 430	1 191	1 417	299	19	
Labor force	872	1 127	970	1 317	1 507	112	479		951	1 225	961	1 122	926	280	19	
Percent of total	76.6	82.1	81.5	88.2	92.1	91.8	59.3		76.1	76.9	67.0	52.7	65.3	70.2	29.9	
Civilian labor force	872	1 127	970	1 317	1 507	112	479		951	1 225	961	1 122	926	280	19	
Employed	875	1 104	954	1 295	1 506	102	462		949	1 248	950	1 109	900	273	19	
Unemployed	17	17	20	20	20	10	9		42	24	24	34	10	5	—	
Percent of civilian labor force	1.9	1.5	2.2	1.5	1.3	8.8	1.9		4.5	1.9	2.5	3.1	1.1	1.8	—	
Not in labor force	272	246	226	177	82	10	40		332	378	475	1 009	491	119	—	
Inmate of institution	—	—	22	—	—	—	—		—	—	—	—	—	—	—	
Enrolled in school	93	80	131	41	—	—	26		300	284	320	946	442	96	—	
Other under 65 years	110	41	70	15	14	—	6		20	39	43	24	31	5	—	
Other 65 years and over	69	125	123	33	27	—	8		10	75	102	29	17	18	—	
Male, 16 to 31 years old	100	220	139	359	119	8	58		370	375	328	1 351	484	79	19	
Not employed in school	81	64	27	35	36	5	17		28	35	45	43	22	—	19	
Not high school graduates	50	34	14	10	10	5	7		—	10	5	9	—	—	12	
Unemployed or not in labor force	21	9	—	10	6	5	—		—	6	—	6	—	—	—	
Female, 16 years old and over	1 305	1 670	1 466	1 763	1 870	145	584		1 014	1 674	1 367	1 418	1 226	773	—	
Labor force	407	694	658	874	515	45	270		534	688	555	656	674	472	—	
Percent of total	32.7	41.5	44.2	50.2	47.0	31.0	35.5		52.7	41.1	43.8	46.3	55.0	40.7	—	
Civilian labor force	407	694	658	874	515	45	270		534	688	555	656	674	472	—	
Employed	402	661	625	851	503	45	200		521	622	522	635	650	412	—	
Unemployed	5	23	22	23	12	—	13		5	5	31	21	24	—	—	
Percent of civilian labor force	1.2	3.4	3.0	2.6	2.3	—	4.8		0.9	0.7	5.6	3.2	3.5	—	—	
Not in labor force	898	970	808	889	563	100	364		480	986	812	762	552	163	—	
Married women, husband present	774	964	882	1 213	625	109	437		652	1 194	751	722	274	202	—	
In labor force	225	361	377	522	375	36	143		249	470	256	198	178	74	—	
With own children under 6 years	218	251	224	445	381	62	240		239	306	177	83	63	40	—	
In labor force	17	74	72	116	100	11	59		45	39	30	37	24	14	—	
OCCUPATION																
Total employed, 16 years old and over	1 377	1 765	1 429	2 137	1 829	147	443		1 418	1 931	1 453	1 709	1 548	388	19	
Professional, technical, and kindred workers	325	201	187	378	235	16	142		615	1 077	692	756	667	227	—	
Health workers	10	66	107	69	29	20	56		107	20	20	56	31	45	—	
Teachers, elementary and secondary schools	46	44	29	52	45	4	12		76	132	64	30	53	79	—	
Managers and administrators, except farm	176	214	96	159	153	4	64		123	302	176	42	24	56	—	
Sales	139	179	79	144	144	4	59		117	292	164	33	24	44	—	
Self-employed in retail trade	26	10	8	10	—	—	5		—	10	10	—	—	—	—	
Sales workers	112	164	120	188	126	18	36		93	72	102	51	59	15	—	
Retail trade	77	105	67	118	53	5	14		46	19	31	36	29	5	—	
Clerical and kindred workers	126	303	343	424	289	22	147		218	222	150	200	219	49	13	
Craftsmen, foremen, and kindred workers	127	247	257	301	249	27	100		43	26	47	40	72	9	—	
Construction craftsmen and repairmen	51	102	63	21	15	5	21		15	5	21	15	31	31	—	
Mechanics and repairmen	19	45	45	59	38	4	29		—	6	15	4	16	—	—	
Operatives, except transport	152	207	123	219	181	18	36		18	62	29	219	81	89	—	
Transport equipment operatives	49	25	43	72	42	24	26		26	15	33	6	33	11	—	
Labors, except farm	29	29	48	47	19	—	27		17	10	117	52	19	5	—	
Farm workers	—	—	4	—	—	—	5		19	30	5	74	31	—	—	
Service workers	170	186	231	255	124	18	79		149	89	108	175	138	12	—	
Cleaning and food service workers	112	101	135	137	62	4	43		113	53	41	321	78	12	—	
Protective service workers	6	30	24	45	39	5	19		13	—	22	10	9	3	—	
Personal and health service workers	18	38	166	67	19	9	17		19	34	22	38	52	—	—	
Private household workers	11	39	21	10	4	—	—		10	—	20	23	11	—	—	
Female employed, 16 years old and over	407	641	625	831	503	45	200		531	683	522	635	656	412	—	
Professional, technical, and kindred workers	97	88	71	136	73	—	9		195	373	267	291	330	68	—	
Teachers, elementary and secondary schools	19	27	19	37	16	—	9		60	108	64	20	35	22	—	
Managers and administrators, except farm	49	36	19	27	35	—	5		10	42	24	16	8	16	—	
Sales workers	67	69	49	109	56	12	10		77	28	51	16	18	—	—	
Clerical and kindred workers	71	203	253	366	219	9	78		200	182	119	154	176	23	—	
Secretaries, stenographers, and typists	18	15	101	164	63	9	37		95	96	60	73	75	9	—	
Operatives, including transport	23	69	41	35	53	7	8		8	31	6	21	18	—	—	
Other blue-collar workers	16	13	19	19	19	4	11		15	—	—	10	9	—	—	
Farm workers	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Service workers except private household	99	90	152	149	64	13	47		54	27	29	105	81	—	—	
Private household workers	11	39	21	10	4	—	—		10	—	16	23	11	—	—	
INDUSTRY																
Total employed, 16 years old and over	1 377	1 765	1 429	2 137	1 829	147	443		1 418	1 931	1 453	1 709	1 548	388	19	
Construction	69	117	182	168	26	7	41		17	28	131	47	76	18	—	
Manufacturing	263	437	232	500	439	57	175		160	174	99	82	128	14	19	
Durable goods	154	328	179	306	266	29	95		97	115	77	53	84	14	19	
Transportation	128	69	53	97	57	—	22		11	5	27	12	12	—	—	
Wholesale trade	15	45	44	48	97	—	27		29	20	16	28	7	—	—	
Retail trade	291	298	209	426	215	20	108		126	178	163	153	84	64	—	
Finance, insurance, and real estate	70	95	93	181	110	13	52		113	85	52	17	37	17	—	
Business and repair services	11	36	50	75	26	—	7		28	56	10	14	19	5	—	
Personal services	38	78	54	48	52	—	27		49	54	49	46	32	11	—	
Health services	82	136	101	122	50	9	38		106	136	43	76	29	32	—	
Educational services	191	268	192	311	204	13	99		623	763	763	876	1 017	174	—	
Other professional and related services	185	100	53	97	57	—	22		100	106	106	77	50	19	—	
Public administration	76	47	58	117	55	14	22		29	31	32	37	34	5	—	
Other industries	5	47	34	10	22	—	5		29	35	19	103	53	8	—	
CLASS OF WORKER																
Total employed, 16 years old and over	1 377	1 765	1 429	2 137	1 829	147	443		1 418	1 931	1 453	1 709	1 548	388	19	
Private wage and salary workers	840	1 362	1 140	1 704	1 162	113	510		696	975	875	888	660	153	19	
Government workers	275	305	291	274	217	27	122		669	821	875	891	663	177	—	
Local government workers	185	100	97	106	106	106	106		106	106	106	77	50	19	—	
Self-employed workers	162	90	58	39	39	7	70		45	130	46	83	17	50	—	
Unpaid family workers	—	8	—	—	11	—	—		—	5	4	42	—	—	—	

Includes allocated cases not shown separately.

Table P-3. Labor Force Characteristics of the Population: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

	Balance of Tazewell County											
Census Tracts	Tract 0001	Tract 0003	Tract 0007	Tract 0010	Tract 0014	Tract 0051	Tract 0052	Tract 0101	Tract 0102	Tract 0103	Tract 0104	Tract 0105
EMPLOYMENT STATUS												
Male, 16 years old and over	84	—	197	—	124	301	17	1 423	2 476	2 404	2 376	1 377
Labor force	59	—	171	—	116	345	13	1 208	1 916	1 817	1 868	809
Percent of total	70.2	—	86.3	—	93.5	54.8	—	84.6	73.1	39.1	34.9	58.8
Civilian labor force	54	—	171	—	116	345	13	1 208	1 888	1 806	1 819	749
Employed	54	—	163	—	116	350	13	1 170	1 856	1 756	1 743	743
Unemployed	—	—	8	—	—	15	—	38	32	42	36	10
Percent of civilian labor force	—	—	4.7	—	—	9.1	—	3.1	1.7	2.3	2.0	1.3
Not in labor force	25	—	26	—	8	136	4	215	704	1 587	1 608	566
Members of institution	—	—	—	—	—	57	—	10	268	—	—	—
Enrolled in school	18	—	20	—	8	—	—	56	272	1 558	1 792	565
Other under 65 years	—	—	6	—	—	—	—	80	28	29	16	2
Other 65 years and over	7	—	—	—	32	—	—	74	118	—	—	—
Male, 14 to 31 years old	6	—	23	—	28	70	4	193	523	2 173	2 493	344
Not enrolled in school	—	—	5	—	—	—	—	46	107	55	55	12
Not high school graduates	—	—	—	—	—	—	—	14	20	26	—	—
Unemployed or not in labor force	—	—	—	—	—	—	—	4	4	—	—	—
Female, 16 years old and over	96	—	179	—	168	311	14	1 506	2 222	463	2 737	1 321
Labor force	65	—	84	—	120	86	4	663	970	258	1 016	701
Percent of total	67.7	—	46.9	—	71.4	27.7	—	44.0	41.8	10.7	37.0	52.9
Civilian labor force	65	—	84	—	120	86	4	663	970	258	1 016	688
Employed	62	—	86	—	105	82	4	614	923	234	977	680
Unemployed	3	—	18	—	15	4	—	49	47	24	37	12
Percent of civilian labor force	4.6	—	21.4	—	12.5	4.7	—	7.4	4.8	9.3	3.6	—
Not in labor force	31	—	95	—	48	225	10	843	1 252	2 055	1 723	625
Married women, husband present	69	—	136	—	103	163	9	1 036	1 608	276	—	1 154
In labor force	39	—	60	—	60	50	4	411	720	194	—	391
With own children under 6 years	13	—	41	—	29	47	5	304	618	79	—	535
In labor force	7	—	7	—	23	11	—	65	181	55	—	205
OCCUPATION												
Total employed, 16 years old and over	116	—	228	—	231	322	17	1 784	2 779	1 193	1 892	1 431
Professional, technical, and kindred workers	17	—	25	—	39	69	5	168	834	315	371	678
Health workers	—	—	4	—	4	—	—	20	74	29	10	56
Teachers, elementary and secondary schools	—	—	4	—	12	—	—	31	129	23	13	82
Managers and administrators, except farm	—	—	15	—	40	35	4	147	179	47	—	111
Self-employed in retail trade	—	—	—	—	—	—	—	26	4	—	—	—
Sales workers	6	—	17	—	21	22	—	42	126	37	106	79
Retail trade	—	—	—	—	—	11	—	17	63	12	101	48
Clerical and kindred workers	29	—	43	—	43	42	—	219	473	124	305	256
Craftsman, foreman, and kindred workers	11	—	58	—	18	26	—	283	227	40	48	63
Construction craftsmen	—	—	5	—	5	6	—	125	123	16	20	26
Mechanics and repairmen	—	—	22	—	—	10	—	48	92	16	11	6
Operatives, except transport	12	—	22	—	16	4	—	314	202	35	73	46
Transport equipment operators	—	—	—	—	—	—	—	107	77	37	18	—
Laborers, except farm	9	—	32	—	9	11	4	95	90	85	44	24
Farm workers	—	—	—	—	—	4	—	87	140	105	99	63
Service workers	25	—	8	—	19	2	—	316	301	350	631	205
Cleaning and food service workers	3	—	8	—	8	4	—	207	228	315	678	134
Protective service workers	6	—	—	—	—	—	—	—	22	—	—	—
Personal and health service workers	14	—	—	—	11	10	—	109	44	35	92	54
Private household workers	—	—	2	—	11	—	—	24	30	10	5	6
Female employed, 16 years old and over	62	—	84	—	105	82	4	616	923	234	977	681
Professional, technical, and kindred workers	6	—	8	—	19	16	—	67	209	87	183	278
Teachers, elementary and secondary schools	—	—	4	—	4	6	—	21	60	17	15	77
Managers and administrators, except farm	—	—	—	—	—	—	—	42	21	14	—	—
Sales workers	6	—	17	—	16	16	—	5	43	—	80	38
Clerical and kindred workers	29	—	43	—	40	19	—	189	372	74	212	235
Secretaries, stenographers, and typists	17	—	3	—	14	6	—	60	160	43	65	66
Operatives, including transport	6	—	7	—	—	—	—	68	57	9	19	11
Other blue collar workers	—	—	12	—	—	10	—	14	38	4	—	—
Farm workers	—	—	—	—	—	—	—	15	—	—	—	—
Service workers, except private household	19	—	—	—	11	21	4	190	161	36	443	114
Private household workers	—	—	2	—	11	—	—	24	22	10	5	6
INDUSTRY												
Total employed, 16 years old and over	116	—	228	—	231	322	17	1 784	2 779	1 193	1 892	1 431
Construction	8	—	29	—	10	23	—	170	199	29	27	68
Manufacturing	24	—	47	—	44	40	—	601	462	92	92	72
Durable goods	24	—	47	—	34	14	—	422	348	46	52	54
Transportation	6	—	—	—	10	—	—	56	76	9	6	—
Communications, utilities, and sanitary services	6	—	—	—	—	—	—	29	27	5	—	—
Wholesale trade	—	—	—	—	25	11	—	45	30	6	30	5
Retail trade	17	—	63	—	35	43	8	255	400	130	432	97
Finance, insurance, and real estate	5	—	—	—	—	—	—	65	163	10	29	112
Business and repair services	—	—	6	—	—	—	—	46	22	6	20	6
Personal services	—	—	7	—	31	5	—	62	86	49	35	55
Health services	29	—	—	—	15	19	4	144	112	40	20	72
Educational services	21	—	15	—	15	87	5	262	852	508	163	767
Other professional and related services	—	—	7	—	21	9	—	42	73	77	72	82
Public administration	—	—	15	—	11	7	—	81	64	5	29	20
Other industries	—	—	4	—	9	4	—	76	173	147	132	86
CLASS OF WORKER												
Total employed, 16 years old and over	116	—	228	—	231	322	17	1 784	2 779	1 193	1 892	1 431
Private wage and salary workers	71	—	193	—	183	219	8	1 254	1 646	391	650	632
Government workers	45	—	29	—	27	103	5	413	846	523	927	756
Local government workers	19	—	4	—	4	35	4	43	43	23	28	12
Self-employed workers	—	—	—	—	5	10	4	113	187	28	36	20
Unpaid family workers	—	—	—	—	6	—	—	4	—	51	79	23

*Includes allocated cases, not shown separately

CENSUS TRACTS

LAFAYETTE—WEST LAFAYETTE, IND., SMSA P—11

Table P-3. Labor Force Characteristics of the Population: 1970—Continued

[Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.]

Census Tracts	Balance of Tippecanoe County—Con.					Totals for eight tracts									
	Tract 0106	Tract 0107	Tract 0108	Tract 0109	Tract 0110	Tract 0001	Tract 0006	Tract 0009	Tract 0010	Tract 0014	Tract 0107	Tract 0106	Tract 0106	Tract 0106	Tract 0106
EMPLOYMENT STATUS															
Male, 16 years old and over	1 388	1 316	1 188	1 418	1 133	1 034	1 340	874	1 164	1 163	1 338	1 769	1 338	1 338	1 769
Labor force	1 154	1 005	982	1 185	973	831	1 094	730	892	1 075	1 117	1 461	1 117	1 117	1 461
Percent of total	83.4	87.6	82.7	82.6	81.6	82.3	80.4	82.3	76.9	92.3	83.5	83.5	83.5	83.5	83.5
Civilian labor force	1 149	998	982	1 180	933	846	1 089	723	892	1 042	1 110	1 451	1 110	1 110	1 451
Employed	1 132	983	953	1 144	912	809	1 069	678	873	1 042	1 085	1 415	1 085	1 085	1 415
Unemployed	17	15	29	34	21	38	20	45	17	—	25	38	—	25	38
Percent of civilian labor force	1.5	1.5	3.0	3.1	2.3	4.5	1.8	6.2	1.9	—	2.3	2.6	—	2.3	2.6
Not in labor force	224	211	206	235	219	183	246	144	272	90	221	244	90	221	244
Reasons of exclusion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Enrolled in school	87	112	106	99	61	58	55	42	93	49	112	132	49	112	132
Other under 65 years	43	27	43	34	41	38	39	50	110	14	22	49	14	22	49
Other 65 years and over	94	77	57	100	110	87	145	52	69	27	77	63	27	77	63
Male, 16 to 21 years old	164	174	143	228	137	128	164	111	198	148	178	203	148	178	203
Not enrolled in school	47	17	19	78	49	36	57	67	81	41	22	34	41	22	34
Not high school graduates	21	6	8	32	5	16	29	49	68	18	11	13	18	11	13
Unemployed or not in labor force	8	—	6	11	—	5	9	22	29	—	5	6	—	5	6
Female, 16 years old and over	1 358	1 243	1 273	1 457	1 343	1 085	1 243	797	1 245	1 244	1 338	1 814	1 244	1 244	1 814
Labor force	529	458	581	612	525	489	637	312	407	635	503	781	635	503	781
Percent of total	39.0	36.8	45.7	42.0	42.2	45.1	49.2	29.1	32.7	51.0	36.2	42.5	51.0	36.2	42.5
Civilian labor force	529	458	581	612	525	489	637	312	407	635	503	781	635	503	781
Employed	509	448	542	603	493	470	607	289	402	608	493	744	608	493	744
Unemployed	20	10	39	9	42	19	30	23	10	27	10	37	27	10	37
Percent of civilian labor force	3.8	2.2	6.4	1.5	8.0	3.9	4.8	7.4	2.4	4.3	2.0	4.7	4.3	2.0	4.7
Not in labor force	829	785	692	845	718	596	606	485	838	611	835	1 033	611	835	1 033
Married women, husband present	1 042	948	916	1 093	909	748	973	564	714	943	1 037	1 353	943	1 037	1 353
In labor force	371	345	400	461	347	323	491	218	402	435	518	543	435	518	543
With own children under 6 years	353	277	263	331	229	231	161	159	278	410	339	350	410	339	350
In labor force	60	68	86	112	90	91	73	42	17	132	79	145	132	79	145
OCCUPATION															
Total employed, 16 years old and over	1 641	1 431	1 497	1 767	1 393	1 278	1 876	967	1 277	1 558	1 578	1 578	1 558	1 578	1 578
Professional, technical, and kindred workers	221	243	221	299	206	105	268	167	206	274	205	363	206	205	363
Health workers	37	46	29	59	7	31	40	9	61	43	48	49	43	48	49
Teachers, elementary and secondary schools	23	28	28	36	21	28	28	26	46	49	32	39	46	32	39
Managers and administrators, except farm	119	109	184	116	73	65	117	26	181	113	148	148	113	148	148
Self-employed in retail trade	96	92	149	86	55	65	111	21	129	164	96	206	164	96	206
Sales workers	88	110	108	163	42	74	192	64	112	147	126	144	147	126	144
Clerical and kindred workers	31	63	63	107	37	61	141	31	77	74	68	77	74	68	77
Craftsmen, foremen, and kindred workers	207	231	249	292	172	242	389	128	309	332	282	350	332	282	350
Construction craftsmen	256	253	189	237	242	230	223	256	129	264	200	289	264	200	289
Mechanics and repairmen	95	68	51	124	68	96	38	93	51	27	83	91	27	83	91
Operatives, except transport	212	212	155	189	252	150	265	162	152	207	230	191	152	207	230
Transport equipment operatives	63	44	53	95	81	47	80	77	49	47	68	79	49	47	68
Laborers, except farm	83	41	53	55	37	41	72	89	29	28	41	62	29	28	41
Farm workers	104	51	16	122	263	101	21	—	—	—	—	—	—	—	—
Service workers	120	107	154	174	164	200	194	85	170	142	125	233	142	125	233
Cleaning and food service workers	146	147	118	103	81	100	90	51	112	10	19	150	112	10	19
Protective service workers	27	8	6	6	8	25	22	11	6	39	13	25	39	13	25
Personal and health service workers	37	26	29	50	61	61	75	3	18	80	37	46	80	37	46
Private household workers	34	30	15	5	10	17	17	13	11	15	30	15	11	15	30
Female employed, 16 years old and over	309	448	546	603	483	470	607	312	407	635	503	781	635	503	781
Professional, technical, and kindred workers	100	63	59	77	28	37	146	33	97	92	83	104	92	83	104
Teachers, elementary and secondary schools	22	19	19	15	21	—	40	14	19	20	19	28	20	19	28
Managers and administrators, except farm	20	8	25	32	21	17	27	15	48	35	8	30	48	35	8
Sales workers	30	54	43	60	37	31	77	47	37	52	46	53	37	52	46
Clerical and kindred workers	127	158	247	235	122	174	318	92	71	259	167	225	259	167	225
Secretaries, stenographers, and typists	59	61	105	87	51	40	90	35	19	77	70	142	77	70	142
Operatives, including transport	60	44	53	73	98	61	94	36	22	61	51	61	61	51	61
Other blue-collar workers	23	12	15	16	16	8	—	—	—	—	—	—	—	—	—
Farm workers	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Service workers, except private household	106	59	87	129	123	125	128	37	99	75	72	134	99	75	134
Private household workers	34	30	15	5	10	17	17	13	11	15	30	15	11	15	30
INDUSTRY															
Total employed, 16 years old and over	1 641	1 431	1 497	1 767	1 393	1 278	1 876	967	1 277	1 558	1 578	1 578	1 558	1 578	1 578
Construction	156	100	82	190	146	131	93	129	69	34	137	122	69	137	122
Manufacturing	311	454	277	347	309	210	454	251	263	483	511	553	263	511	553
Durable goods	227	327	184	212	233	147	327	205	191	300	288	313	205	288	313
Transportation	78	44	37	56	33	71	60	24	19	30	44	64	19	30	44
Communications, utilities, and sanitary services	31	21	24	20	80	31	75	46	15	47	21	81	47	21	81
Wholesale trade	38	29	24	45	45	30	77	53	21	71	43	83	71	43	83
Retail trade	223	213	281	364	184	252	387	137	291	250	223	299	291	223	299
Finance, insurance, and real estate	70	46	108	73	30	37	57	43	20	115	59	100	43	59	100
Business and repair services	27	23	39	18	39	18	37	6	35	19	18	33	35	19	33
Personal services	83	54	71	49	49	69	72	54	36	83	54	98	36	83	54
Health services	73	68	92	87	105	61	125	149	17	82	65	89	105	65	89
Educational services	321	134	134	212	167	194	282	164	191	244	194	268	191	244	194
Other professional and related services	50	44	21	22	29	40	74	28	128	78	44	43	128	78	44
Public administration	167	74	76	66	66	31	46	68	36	66	66	82	36	66	82
Other industries	137	65	28	165	254	24	44	4	5	—	—	—	4	5	—
CLASS OF WORKER															
Total employed, 16 years old and over	1 641	1 431	1 497	1 767	1 393	1 278	1 876	967	1 277	1 558	1 578	1 578	1 558	1 578	1 578
Private wage and salary workers	1 061	1 037	1 165	1 302	907	1 032	1 519	767	840	1 345	1 250	1 519	1 345	1 250	1 519
Government workers	167	74	76	66	66	31	46	68	36	66	66	82	36	66	82
Local government workers	62	66	62	69	113	75	181	59	105	110	84	119	105	110	84
Self-employed workers	167	74	76	66	66	31	46	68	36	66	66	82	36	66	82
Unpaid family workers	9	22	6	30	15	5	—	—	—	—	—	—	—	—	—

*Includes allocated cases, not shown separately.

Table P-4. Income Characteristics of the Population: 1970

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Tippecanoe County				Lafayette									
	Total	Lafayette	West Lafayette	Balance	Tract 0001	Tract 0002	Tract 0003	Tract 0004	Tract 0005	Tract 0006	Tract 0007	Tract 0008	Tract 0009	
INCOME IN 1969 OF FAMILIES AND UNRELATED INDIVIDUALS														
All families	35 759	11 760	3 725	10 378	756	922	896	735	324	115	820	1 135	471	
Less than \$1,000	433	126	35	272	13	—	11	13	—	—	8	18	4	
\$1,000 to \$1,999	479	200	49	230	8	29	14	30	8	—	25	48	6	
\$2,000 to \$2,999	872	300	99	474	11	41	21	34	16	—	16	40	26	
\$3,000 to \$3,999	1 097	402	102	513	34	49	14	49	21	19	57	58	32	
\$4,000 to \$4,999	1 102	525	122	533	17	53	33	56	14	4	69	54	24	
\$5,000 to \$5,999	1 233	572	134	547	53	66	34	77	19	9	54	44	11	
\$6,000 to \$6,999	1 445	659	174	612	40	75	10	65	33	9	53	66	42	
\$7,000 to \$7,999	1 782	652	216	714	53	55	68	67	17	10	50	65	44	
\$8,000 to \$8,999	2 045	781	199	865	62	84	54	82	19	7	40	126	60	
\$9,000 to \$9,999	1 158	1 000	343	724	84	48	50	43	16	20	37	71	40	
\$10,000 to \$11,999	3 885	2 027	387	1 471	176	124	143	42	19	11	70	212	79	
\$12,000 to \$14,999	4 333	2 105	540	1 388	153	146	222	93	17	10	47	148	57	
\$15,000 to \$24,999	4 089	1 652	1 054	1 383	50	132	160	43	15	4	60	149	53	
\$25,000 to \$49,999	1 064	265	476	323	—	8	15	6	—	—	4	24	4	
\$50,000 or more	41	14	14	13	—	—	—	—	—	—	—	—	—	
Median income	\$10 170	\$10 181	\$10 231	\$9 238	\$10 034	\$9 121	\$11 287	\$7 127	\$8 727	\$2 850	\$7 360	\$9 514	\$8 910	
Mean income	\$11 648	\$10 670	\$14 789	\$10 124	\$9 736	\$9 578	\$11 411	\$7 880	\$8 701	\$8 697	\$10 484	\$11 947	\$8 211	
Families and unrelated individuals	47 082	15 947	10 896	20 299	953	1 157	1 078	1 304	511	428	1 078	1 525	653	
Median income	\$8 468	\$8 977	\$7 153	\$7 537	\$8 638	\$7 963	\$11 286	\$4 718	\$3 555	\$4 688	\$5 209	\$8 342	\$7 916	
Mean income	\$7 185	\$8 955	\$6 799	\$9 997	\$6 256	\$6 371	\$10 392	\$5 490	\$4 840	\$5 887	\$6 370	\$8 567	\$7 824	
Unrelated individuals	21 323	4 187	7 171	9 965	197	235	182	549	287	313	439	290	178	
Median income	\$1 668	\$3 047	\$1 739	\$1 365	\$1 801	\$2 801	\$6 091	\$2 425	\$2 025	\$4 225	\$2 231	\$3 061	\$2 731	
Mean income	\$2 517	\$4 136	\$2 649	\$1 743	\$2 577	\$3 636	\$8 374	\$2 867	\$2 919	\$4 555	\$3 609	\$4 558	\$4 122	
TYPE OF INCOME IN 1969 OF FAMILIES														
All families	35 759	11 760	3 725	10 378	756	922	896	735	324	115	820	1 135	471	
With wage or salary income	72 236	10 479	3 458	9 119	689	817	824	665	199	115	540	1 008	410	
Mean wage or salary income	\$10 518	\$10 677	\$7 153	\$9 578	\$9 495	\$11 287	\$7 455	\$7 028	\$4 619	\$8 548	\$5 049	\$9 273	\$7 916	
With farm self-employment income	2 434	1 118	540	978	55	120	66	41	20	11	44	116	64	
Mean farm self-employment income	\$6 798	\$7 182	\$4 544	\$6 714	\$7 523	\$3 556	\$3 906	\$3 316	...	...	\$2 855	\$5 322	\$4 633	
With non-farm self-employment income	1 281	1 077	151	1 063	—	20	22	—	—	—	—	—	—	
Mean non-farm self-employment income	\$3 621	\$2 539	\$2 811	\$3 956	...	...	...	...	...	...	...	...	...	
With Social Security income	11 621	3 725	1 000	11 621	110	212	...	200	70	18	127	245	101	
Mean Social Security income	\$1 621	\$1 739	\$1 365	\$1 421	\$2 294	\$2 068	\$1 987	\$1 701	\$1 291	...	\$1 467	\$1 953	\$2 551	
With public assistance or public welfare income	499	300	7	132	15	7	16	—	—	—	—	—	—	
Mean public assistance or public welfare income	\$989	\$1 136	...	\$657	...	...	...	...	...	...	...	...	...	
With other income	9 273	3 499	2 168	3 606	176	345	321	164	41	21	208	367	50	
Mean other income	\$1 640	\$1 528	\$2 327	\$1 506	\$994	\$977	\$1 439	\$1 809	\$1 194	...	\$1 718	\$1 972	\$2 000	
RATIO OF FAMILY INCOME TO POVERTY LEVEL ¹														
Percent of families with incomes														
Less than 50% of poverty level	2.5	1.8	1.7	3.6	2.8	1.3	1.6	3.4	—	7.0	3.5	2.9	1.9	
50 to 74	1.4	1.5	1.0	2.9	1.1	1.1	1.6	6.0	3.6	—	4.2	1.4	2.9	
75 to 99	2.2	1.7	1.9	2.9	1.5	2.7	0.6	2.3	5.4	—	1.9	1.9	4.4	
100 to 124	3.8	3.9	4.5	4.9	2.5	4.5	2.5	4.9	12.5	7.8	7.4	3.4	3.4	
125 to 149	3.5	3.5	0.7	4.5	1.2	5.7	2.6	4.6	3.1	8.7	10.2	3.6	—	
150 to 199	10.9	11.4	6.7	11.7	14.0	12.8	9.5	15.6	16.1	2.4	12.5	9.9	24.0	
200 to 299	26.1	27.2	17.3	28.0	29.8	29.5	21.1	31.6	34.4	34.4	27.3	23.9	29.6	
300 or more	49.9	49.7	68.9	42.1	48.5	41.8	59.4	27.5	25.0	40.9	36.8	51.2	29.0	
INCOME BELOW POVERTY LEVEL ¹														
Families	1 375	584	168	829	39	47	34	191	20	3	60	79	44	
Percent of all families	6.1	5.0	4.5	8.0	4.2	5.1	3.8	12.7	8.9	7.0	9.7	6.2	9.3	
Mean family income	\$1 737	\$1 936	\$1 844	\$1 573	\$1 381	\$1 986	\$1 149	\$2 447	...	...	\$1 938	\$1 657	\$2 423	
Mean income deficit	\$1 451	\$1 429	\$1 343	\$1 495	\$2 185	\$700	\$1 827	\$1 400	...	...	\$1 685	\$1 443	\$1 046	
Percent receiving public assistance income	6.1	14.0	—	5.5	—	—	17.6	25.7	...	...	...	...	...	
Mean size of family	3 300	3 352	3 321	3 316	3 375	3 462	3 188	3 447	...	...	3 385	3 116	2 555	
With related children under 18 years	1 000	404	118	477	22	19	36	70	8	9	51	30	36	
Mean number of related children under 18 years	2 26	2 56	1 71	2 18	...	...	264	403	...	...	267	2 81	2 18	
With related children under 6 years	706	281	68	357	...	...	18	13	...	...	...	...	...	
Mean number of related children under 6 years	1 56	1 57	1 13	1 51	...	...	1 000	1 464	...	...	1 26	...	...	
Families with female head	1 072	252	14	125	...	...	16	13	...	...	...	...	...	
With related children under 18 years	227	118	118	4	...	...	3	13	...	...	...	...	...	
Mean number of related children under 18 years	2 21	2 63	...	1 82	...	...	...	485	...	...	1 60	...	...	
With related children under 6 years	108	134	...	64	...	...	13	34	...	...	...	...	...	
Percent in labor force	46.5	44.8	...	50.0	...	...	...	79.4	...	...	...	...	...	
Mean number of related children under 6 years	1.40	1.31	...	1.58	...	...	...	1.55	...	...	...	...	...	
Family heads	1 375	584	168	829	39	47	34	191	20	3	60	79	44	
Percent 65 years and over	18.4	22.1	3.0	16.4	12.5	68.0	47.1	14.9	...	...	6.7	37.1	6.8	
Median male heads under 65 years	974	729	150	585	34	10	13	40	...	...	31	32	77	
Percent in labor force	66.9	67.0	79.3	56.8	...	...	...	77.5	...	...	100.0	59.4	81.5	
Unrelated individuals	4 187	1 408	1 981	823	108	51	48	344	197	77	152	191	87	
Percent of all unrelated individuals	40.3	32.6	46.6	40.9	54.1	22.4	34.4	42.9	47.2	24.6	35.3	31.6	46.1	
Mean income	\$972	\$986	\$959	\$977	\$1 002	\$824	\$1 074	\$1 055	\$1 180	\$1 705	\$1 048	\$974	\$1 012	
Mean income deficit	\$907	\$830	\$932	\$881	\$783	\$953	\$781	\$664	\$679	\$585	\$605	\$610	\$792	
Percent receiving public assistance income	2.6	6.8	0.8	2.3	...	...	...	...	...	...	...	...	...	
Percent 65 years and over	27.9	52.3	8.8	32.0	63.9	78.2	54.2	43.6	35.8	76.6	36.6	89.4	62.8	
Percent	9 389	3 478	3 444	3 425	928	178	156	495	197	93	384	345	323	
Percent of all persons	9.6	7.6	15.5	9.4	6.2	5.3	4.8	22.3	19.4	14.7	15.2	8.9	17.8	
Percent receiving Social Security income	17.4	28.7	7.5	13.3	35.5	40.4	30.8	19.3	29.9	79.6	18.2	40.6	31.1	
Percent 65 years and over	17.2	28.2	7.3	13.3	33.8	50.0	22.1	16.6	32.0	63.4	16.4	28.5	24.4	
Percent receiving Social Security income	86.0	87.2	76.5	87.3	...	...	76.4	64.0	93.7	100.0	64.1	79.1	93.1	
Related children under 18 years	2 169	1 002	200	967	43	24	50	242	19	6	136	92	78	
Percent living with both parents	62.1	44.4	65.5	75.7	95.2	...	32.0	29.3	...	...	65.4	53.3	29.7	
HOUSEHOLDS														
Families	3 423	1 498	183	743	116	38	48	398	127	76	138	158	94	
Percent of all households	12.2	16.5	17.4	11.7	13.7	7.4	6.1	21.5	31.1	21.3	16.3	11.0	16.8	
Owner occupied	1 097	631	141	325	95	36	43	33	13	—	24	117	44	
Mean value of unit	\$14 300	\$12 000	\$78 600	\$12 500	\$10 400	\$12 000	\$15 800	\$9 000	...	...	\$11 400	\$4 600	\$6 000	
Renter occupied	2 326	867	242	425	21	2	5	117	114	76	114	41	50	
Mean gross rent	\$110	\$84	\$145	\$97	...	...	...	...	...	...	...	...	...	
Percent taking same or all plumbing facilities	6.8	6.5	4.1	6.9	4.2	20.5	—	6.8	10.2	27.8	3.8	—	40.4	

¹Excludes inmates of institutions, members of the Armed Forces living in barracks, college students in dormitories, and unrelated individuals under 14 years.

CENSUS TRACTS

LAFAYETTE—WEST LAFAYETTE, IND., SMSA P—13

Table P-4. Income Characteristics of the Population: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts	Lafayette—Con.								West Lafayette							
	Tract 0010	Tract 0011	Tract 0012	Tract 0013	Tract 0014	Tract 0107	Tract 0108		Tract 0031	Tract 0032	Tract 0033	Tract 0034	Tract 0035	Tract 0102	Tract 0103	
INCOME IN 1969 OF FAMILIES AND UNRELATED INDIVIDUALS																
All families	828	1 154	929	1 229	971	111	465		752	1 275	788	409	318	193		
Less than \$1,000	14	5	5	19	7	—	—		19	11	10	10	5	—	—	
\$1,000 to \$1,999	15	11	6	4	—	—	—		11	11	10	9	9	—	—	
\$2,000 to \$2,999	12	22	29	9	8	—	—		20	15	23	15	21	5	—	
\$3,000 to \$3,999	36	60	—	6	18	—	—		9	29	10	34	20	—	—	
\$4,000 to \$4,999	47	47	27	10	26	—	—		29	21	33	25	27	7	—	
\$5,000 to \$5,999	61	20	23	15	26	—	—		19	13	29	36	29	8	—	
\$6,000 to \$6,999	36	31	37	39	47	10	27		23	16	35	44	41	31	—	
\$7,000 to \$7,999	39	111	107	43	64	4	35		33	49	62	25	39	8	—	
\$8,000 to \$8,999	19	88	107	78	74	14	43		25	68	46	5	25	10	—	
\$9,000 to \$9,999	99	81	92	143	94	8	26		15	58	15	17	17	—	—	
\$10,000 to \$11,999	122	131	203	332	207	24	133		63	133	97	29	47	8	—	
\$12,000 to \$14,999	117	239	184	337	208	28	67		154	128	125	73	32	28	—	
\$15,000 to \$24,999	145	237	109	259	184	19	63		284	416	217	70	21	46	—	
\$25,000 to \$47,999	88	41	10	4	—	—	—		30	297	74	7	10	58	—	
\$50,000 or more	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Median income	\$10 684	\$11 237	\$10 085	\$11 660	\$11 135	\$11 292	\$10 925		\$12 792	\$17 035	\$12 720	\$9 088	\$7 897	\$16 630		
Mean income	\$12 424	\$12 499	\$10 474	\$11 641	\$11 374	\$11 019	\$12 777		\$13 676	\$18 124	\$14 276	\$10 161	\$9 056	\$18 353		
Families and unrelated individuals	1 255	1 356	1 318	1 474	1 046	111	499		1 432	1 768	1 713	3 183	2 346	407	19	
Median income	\$8 724	\$9 247	\$8 735	\$11 246	\$10 896	\$11 292	\$10 744		\$11 076	\$12 102	\$8 809	\$11 596	\$11 884	\$7 423		
Mean income	\$9 820	\$10 796	\$8 963	\$11 276	\$11 041	\$11 019	\$12 358		\$8 768	\$14 405	\$8 369	\$12 919	\$13 030	\$12 101		
Unrelated individuals	372	402	329	165	75	—	34		710	491	933	2 774	2 030	214	19	
Median income	\$13 474	\$13 474	\$12 373	\$15 376	\$16 290	—	\$8 571		\$20 509	\$35 357	\$21 126	\$11 447	\$2 857			
Mean income	\$3 840	\$5 433	\$4 572	\$5 919	\$6 725	—	\$8 631		\$3 530	\$4 745	\$3 431	\$11 631	\$2 150	\$6 462		
TYPE OF INCOME IN 1959 OF FAMILIES																
All families	828	1 154	929	1 229	971	111	465		752	1 275	788	409	318	193		
With wage or salary income	725	1 020	893	1 259	953	104	431		704	1 203	899	376	310	167		
Mean wage or salary income	\$10 614	\$11 188	\$9 381	\$11 903	\$10 996	\$10 399	\$11 997		\$12 936	\$18 077	\$12 785	\$8 837	\$6 522	\$14 408		
With nonfarm self-employment income	143	141	85	56	63	21	47		70	231	113	75	6	45		
Mean nonfarm self-employment income	\$15 019	\$10 294	\$6 689	\$10 023	\$4 616	—	\$5 503		\$6 938	\$5 911	\$4 725	\$4 358	—	\$13 310		
With farm self-employment income	46	20	22	5	11	—	—		8	14	83	38	7	—	—	
Mean farm self-employment income	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
With Social Security income	147	250	243	103	36	—	27		34	174	131	40	31	—	—	
Mean Social Security income	\$12 149	\$11 637	\$12 053	\$12 209	\$11 692	—	\$15 431		\$11 202	\$11 766	\$11 784	\$2 123	\$1 798	\$2 589		
With public assistance or public welfare income	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Mean public assistance or public welfare income	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
With other income	254	172	147	158	284	33	100		430	—	833	481	139	164	—	
Mean other income	\$2 018	\$1 723	\$1 609	\$1 124	\$995	\$1 577	\$2 240		\$1 496	\$2 504	\$2 689	\$2 023	\$1 197	\$3 728		
RATIO OF FAMILY INCOME TO POVERTY LEVEL¹																
Less than 50 of poverty level	2.2	1.0	1.1	1.4	0.7	—	—		3.1	1.3	—	4.6	1.6	—	—	
50 to 74	2.3	—	—	0.3	0.4	—	—		0.7	1.3	1.8	—	—	—	—	
75 to 99	2.4	1.3	1.7	0.8	0.4	—	1.5		0.8	0.4	1.8	2.9	4.4	2.6	—	
100 or more	2.4	1.2	2.1	1.4	2.7	3.6	—		0.8	1.4	1.9	3.9	4.4	—	—	
1.25 to 1.49	4.5	4.1	2.2	0.8	2.6	3.6	3.9		0.5	0.4	0.6	2.7	—	—	—	
1.50 to 1.99	10.6	9.7	7.4	6.4	14.5	9.9	11.0		3.5	3.5	5.5	15.2	15.2	—	—	
2.00 to 2.99	21.4	26.5	27.6	30.9	27.9	38.7	24.9		16.2	13.3	18.8	20.8	31.3	11.9	—	
3.00 or more	54.5	56.2	54.8	58.8	50.0	44.1	58.7		69.8	78.5	69.5	49.9	43.0	81.9	—	
INCOME BELOW POVERTY LEVEL¹																
Families	58	26	35	24	15	—	7		48	38	28	31	18	5	—	
Percent of all families	6.6	2.3	3.8	2.6	1.5	—	1.5		6.4	3.0	3.6	7.6	6.0	2.6	—	
Mean family income	\$2 317	\$1 812	\$1 905	\$1 143	—	—	—		\$1 774	\$1 980	\$2 180	\$1 363	—	—	—	
Mean income deficit	\$1 265	\$1 212	\$1 006	\$2 180	—	—	—		\$1 476	\$1 799	\$821	\$1 518	—	—	—	
Percent receiving public assistance income	5.2	2.1	1.7	—	—	—	—		—	—	—	—	—	—	—	
Mean year all families	37	31	2	3.7	—	—	—		327	4.05	2.96	2.77	—	—	—	
With related children under 18 years	37	21	10	20	15	—	7		29	38	21	21	5	5	—	
Mean number of related children under 18 years	2.49	2.12	2.07	2.47	—	—	—		1.90	2.08	—	—	—	—	—	
With related children under 18 years	16	11	18	21	15	—	7		24	5	13	21	5	—	—	
Mean number of related children under 6 years	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Families with tenure trust	39	11	10	24	7	—	—		5	6	3	—	—	—	—	
With related children under 18 years	31	11	5	24	7	—	—		—	—	—	—	—	—	—	
Mean number of related children under 18 years	2.00	—	—	—	—	—	—		—	—	—	—	—	—	—	
With related children under 6 years	10	11	5	15	7	—	—		—	—	—	—	—	—	—	
Percent in labor force	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Mean number of related children under 6 years	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Ready heads	58	26	35	24	15	—	7		48	38	28	31	18	5	—	
Percent 65 years and over	6.9	42.3	35.7	11.0	—	—	—		10.4	—	—	—	—	—	—	
Median male heads under 65 years	15	4	13	6	8	—	7		36.3	100.0	48.0	71.0	—	—	—	
Percent in labor force	—	—	—	—	—	—	—		—	—	—	—	—	—	—	
Unrelated individuals	158	72	114	37	18	—	4		284	139	382	139	456	69	13	
Percent of all unrelated individuals	42.5	17.9	34.7	10.3	24.0	—	11.6		57.2	26.9	44.8	59.4	55.3	30.4	—	
Mean income	\$683	\$820	\$975	—	—	—	—		\$1 043	\$921	\$998	\$932	\$857	\$1 238	—	
Mean income deficit	\$1 147	\$987	\$819	—	—	—	—		\$904	\$995	\$896	\$969	\$1 049	\$716	—	
Percent receiving public assistance income	1.9	—	8.0	—	—	—	—		—	—	1.3	1.6	—	—	—	
Percent 65 years and over	37.3	59.7	60.5	—	—	—	—		—	18.9	12.8	12.5	3.1	—	—	
Persons	374	115	195	125	70	—	39		421	386	445	725	459	85	13	
Percent of all persons	11.0	3.8	5.6	2.6	1.8	—	1.2		12.5	5.9	12.9	34.9	21.0	10.2	—	
Percent receiving Social Security income	20.8	34.4	44.1	11.1	14.3	—	12.5		21	10.8	11.8	10.5	4.2	—	—	
Percent 65 years and over	19.8	39.2	45.6	14.1	14.3	—	12.5		21	10.8	10.5	11.0	2.8	—	—	
Percent receiving Social Security income	79.7	81.7	89.9	—	—	—	—		—	100.0	—	—	—	—	—	
Related children under 18 years	98	41	26	39	33	—	13		52	83	26	24	4	11	—	
Percent living with both parents	25.5	36.6	80.8	15.2	30.3	—	—		82.7	85.5	69.2	—	—	—	—	
Households	146	78	137	51	8	—	7		121	102	230	300	230	39	—	
Percent of all households	14.6	7.6	10.6	3.4	0.8	—	1.6		12.8	6.7	17.5	34.0	30.1	7.2	—	
Owner occupied	—	32	37	71	32	8	—		7	24	50	33	19	10	5	
Mean value of unit	\$25 208	\$12 600	\$11 56	\$15 800	—	—	—		\$24 500	\$18 100	\$18 100	—	—	—	—	
Renter occupied	134	41	56	19	52	—	—		—	—	—	—	—	—	—	
Mean gross rent	\$64	\$94	\$83	—	—	—	—		\$204	\$165	\$161	\$114	\$132	—	—	
Percent lacking some or all plumbing facilities	12.8	3.1	—	—	—	—	—		—	—	—	—	—	—	—	

¹Excludes inmates of institutions, members of the Armed Forces living in barracks, college students in dormitories, and unrelated individuals under 14 years

Table P-4. Income Characteristics of the Population: 1970—Continued

(Data based on sample, see text. For minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text.)

Census Tracts

INCOME IN 1969 OF FAMILIES AND UNRELATED INDIVIDUALS

	Tract 0001	Tract 0003	Tract 0007	Tract 0010	Tract 0014	Tract 0031	Tract 0032	Tract 0101	Tract 0102	Tract 0103	Tract 0104	Tract 0105
All families	84	—	159	—	117	168	8	1 180	1 806	228	—	1 175
Less than \$7,000	5	—	4	—	—	—	—	17	19	5	—	145
\$7,000 to \$14,999	4	—	—	—	—	—	—	21	22	13	—	43
\$15,000 to \$24,999	—	—	—	—	6	5	—	28	35	45	—	184
\$25,000 to \$34,999	—	—	—	—	—	5	—	73	81	53	—	124
\$35,000 to \$44,999	13	—	—	—	—	—	—	38	86	73	—	174
\$45,000 to \$54,999	—	—	—	—	11	5	—	59	77	31	—	172
\$55,000 to \$64,999	12	—	20	—	—	—	—	165	127	59	—	135
\$65,000 to \$74,999	—	—	5	—	9	10	—	67	190	5	—	73
\$75,000 to \$84,999	—	—	16	—	7	14	—	104	177	12	—	71
\$85,000 to \$94,999	6	—	18	—	—	—	—	120	131	5	—	22
\$95,000 to \$104,999	22	—	40	—	23	12	—	208	217	6	—	99
\$105,000 to \$114,999	5	—	31	—	7	16	—	210	290	22	—	119
\$115,000 to \$124,999	10	—	19	—	37	58	9	108	248	—	—	—
\$125,000 to \$149,999	—	—	—	—	13	6	—	72	100	—	—	—
\$150,000 or more	—	—	—	—	—	—	—	—	—	—	—	—
Median income	\$9 167	—	\$10 525	—	\$11 870	\$16 034	—	\$9 650	\$9 656	\$4 671	—	\$4 652
Mean income	\$8 332	—	\$10 668	—	\$13 244	\$19 032	—	\$9 894	\$11 080	\$5 275	—	\$5 122
Families and unrelated individuals	101	—	168	—	148	258	18	1 297	2 355	2 771	5 513	1 335
Median income	\$6 703	—	\$10 375	—	\$10 527	\$8 371	—	\$8 774	\$8 135	\$1 566	\$1 067	\$3 647
Mean income	\$7 296	—	\$10 688	—	\$11 505	\$13 760	—	\$8 842	\$9 321	\$1 925	\$1 260	\$4 410
Unrelated individuals	17	—	6	—	31	90	9	217	555	2 443	5 513	360
Median income	—	—	—	—	\$2 250	\$2 279	—	\$2 581	\$2 795	\$1 441	\$1 062	\$1 588
Mean income	—	—	—	—	\$3 437	\$2 427	—	\$3 121	\$3 614	\$1 476	\$1 260	\$2 118

TYPE OF INCOME IN 1969 OF FAMILIES

All families	84	—	159	—	117	168	8	1 180	1 806	228	—	1 175
With wage or salary income	72	—	123	—	112	157	9	1 054	1 661	318	—	1 017
Mean wage or salary income	\$8 795	—	\$10 586	—	\$11 609	\$16 938	—	\$9 660	\$10 132	\$4 378	—	\$5 192
With nonfarm self-employment income	—	—	—	—	5	20	—	62	176	33	—	—
Mean nonfarm self-employment income	—	—	—	—	—	—	—	\$4 845	\$5 790	\$808	—	—
With farm self-employment income	5	—	—	—	—	11	—	130	204	11	—	—
Mean farm self-employment income	—	—	—	—	—	—	—	\$2 720	\$4 177	—	—	—
With Social Security income	—	—	16	—	—	45	—	129	173	10	—	—
Mean Social Security income	—	—	—	—	—	—	—	\$1 402	\$1 575	\$1 672	—	—
With public assistance or public welfare income	—	—	—	—	—	—	—	—	—	—	—	—
Mean public assistance or public welfare income	—	—	—	—	—	—	—	—	—	—	—	—
With other income	—	—	—	—	—	—	—	—	—	—	—	—
Mean other income	\$1 011	—	—	—	\$5 203	\$4 273	—	\$944	\$1 323	\$1 299	—	\$1 331

RATIO OF FAMILY INCOME TO POVERTY LEVEL¹

Percent of families with incomes												
Less than 50 at poverty level	10.7	—	2.5	—	3.4	—	—	2.2	1.1	4.0	—	15.8
50 to 74	—	—	—	—	—	—	—	1.4	0.9	2.7	—	2.0
75 to 99	—	—	3.1	—	—	—	—	3.1	1.8	7.0	—	8.9
100 to 124	—	—	—	—	5.1	3.0	—	3.6	1.7	9.5	—	14.4
125 to 149	3.6	—	7.5	—	3.0	—	—	4.2	4.1	7.9	—	6.3
150 to 174	—	—	6.3	—	3.4	—	—	10.0	12.5	25.9	—	16.0
175 to 199	42.9	—	32.1	—	29.9	25.0	—	29.2	27.9	29.6	—	26.1
200 or more	35.7	—	40.4	—	58.1	65.5	—	45.4	50.0	13.4	—	16.2

INCOME BELOW POVERTY LEVEL¹

Families	9	—	9	—	4	—	—	79	46	45	—	313
Percent of all families	10.7	—	5.7	—	3.4	—	—	6.7	3.8	13.7	—	26.6
Mean family income	—	—	—	—	—	—	—	\$2 125	\$1 707	\$1 297	—	\$1 255
Mean income deficit	—	—	—	—	—	—	—	\$1 156	\$1 116	\$662	—	\$1 742
Percent receiving public assistance income	—	—	—	—	—	—	—	—	—	—	—	—
Mean size of family	—	—	—	—	—	—	—	3.51	2.68	2.36	—	2.89
With related children under 18 years	9	—	9	—	4	—	—	51	45	17	—	177
Mean number of related children under 18 years	—	—	—	—	—	—	—	2.53	1.44	—	—	1.71
With related children under 6 years	9	—	9	—	—	—	—	76	35	17	—	170
Mean number of related children under 6 years	—	—	—	—	—	—	—	1.15	1.29	—	—	1.35
Families with female head	5	—	—	—	—	—	—	10	19	—	—	24
With related children under 18 years	5	—	4	—	4	—	—	10	19	—	—	24
Mean number of related children under 18 years	—	—	—	—	—	—	—	—	—	—	—	—
With related children under 6 years	5	—	—	—	—	—	—	4	9	—	—	21
Percent in labor force	—	—	—	—	—	—	—	—	—	—	—	—
Mean number of related children under 6 years	—	—	—	—	—	—	—	—	—	—	—	—
Family heads	9	—	9	—	4	—	—	79	46	45	—	313
Percent 65 years and over	—	—	—	—	—	—	—	41.8	8.8	—	—	—
Civilian male heads under 65 years	4	—	5	—	—	—	—	36	49	45	—	289
Percent in labor force	—	—	—	—	—	—	—	88.9	57.1	82.2	—	37.8
Unrelated individuals	11	—	8	—	16	38	—	82	148	58	119	25
Percent of all unrelated individuals	—	—	—	—	19.4	37.8	—	37.8	25.9	40.6	80.5	27.5
Mean income	—	—	—	—	—	\$1 287	—	\$945	\$1 206	\$478	\$1 012	\$662
Mean income deficit	—	—	—	—	—	\$600	—	\$856	\$718	\$1 287	\$876	\$1 764
Percent receiving public assistance income	—	—	—	—	—	—	—	—	—	—	—	—
Percent 65 years and over	—	—	—	—	—	—	—	62.2	17.4	—	—	—
Persons	33	—	38	—	35	38	—	359	376	165	119	128
Percent of all persons	14.0	—	9.9	—	6.2	5.4	—	8.3	5.0	20.8	60.5	28.8
Percent receiving Social Security income	—	—	—	—	—	—	—	27.3	9.8	—	—	—
Percent 65 years and over	—	—	—	—	—	—	—	25.3	9.5	—	—	—
Percent receiving Social Security income	—	—	—	—	—	—	—	92.3	83.9	—	—	—
Related children under 18 years	8	—	36	—	13	—	—	121	40	17	—	26.9
Percent living with both parents	—	—	83.3	—	—	—	—	82.6	43.3	—	—	84.4
Households	8	—	9	—	4	16	—	109	92	51	—	329
Percent of all households	—	—	6.1	—	4.9	8.4	—	10.6	7.7	15.3	—	20.6
Owner occupied	—	—	—	—	4	—	—	58	20	—	—	—
Mean value of unit	—	—	—	—	—	—	—	\$9 000	—	—	—	—
Renter occupied	4	—	9	—	—	16	—	—	—	—	—	—
Mean gross rent	—	—	—	—	—	—	—	\$66	\$111	\$93	—	\$102
Percent lacking some or all plumbing facilities	—	—	—	—	—	—	—	11.8	8.7	—	—	—

¹Excludes inmates of institutions, members of the Armed Forces living in barracks, college students in dormitories and unrelated individuals under 14 years.

Table P-4. Income Characteristics of the Population: 1970—Continued

(Data based on sample, see text for minimum base for derived figures (percent, median, etc.) and meaning of symbols, see text)

Census Tracts	Balance of Tippecanoe County—Con.					Totals for split tracts						
	Tract 0106	Tract 0107	Tract 0108	Tract 0109	Tract 0110	Tract 0001	Tract 0008	Tract 0009	Tract 0010	Tract 0014	Tract 0107	Tract 0108
INCOME IN 1969 OF FAMILIES AND UNRELATED INDIVIDUALS												
All families	1 151	1 006	993	1 149	928	840	1 140	434	883	1 088	1 117	1 446
Less than \$1,000	17	13	25	10	12	18	4	13	14	7	13	25
\$1,000 to \$1,999	36	21	4	34	19	12	45	4	15	9	21	25
\$2,000 to \$2,999	37	18	14	63	24	11	43	28	12	14	18	4
\$3,000 to \$3,999	10	24	42	47	41	27	58	32	36	18	28	18
\$4,000 to \$4,999	32	26	32	34	70	30	56	34	47	26	26	34
\$5,000 to \$5,999	47	40	39	49	41	53	46	31	41	37	40	37
\$6,000 to \$6,999	96	57	97	43	70	60	29	48	34	47	67	134
\$7,000 to \$7,999	114	76	47	34	64	55	85	49	37	23	80	82
\$8,000 to \$8,999	104	100	67	83	105	66	128	66	49	81	114	114
\$9,000 to \$9,999	81	75	62	110	91	70	71	58	99	94	83	85
\$10,000 to \$10,999	170	141	167	199	147	200	212	119	122	220	165	220
\$11,000 to \$11,999	169	162	141	211	105	158	146	88	127	215	190	220
\$12,000 to \$12,999	162	215	189	196	132	60	149	72	145	221	234	232
\$13,000 to \$14,999	53	36	45	28	—	—	74	4	68	17	38	72
\$50,000 or more	—	—	—	—	—	—	—	—	—	—	—	—
Median income	\$9 735	\$10 756	\$10 504	\$10 733	\$10 477	\$9 121	\$9 978	\$9 479	\$9 414	\$10 664	\$11 209	\$10 830
Mean income	\$10 663	\$11 743	\$11 504	\$10 735	\$9 320	\$9 596	\$9 930	\$9 521	\$9 521	\$11 424	\$11 629	\$11 871
Families and unrelated individuals												
All	1 299	1 077	1 157	1 310	1 110	1 054	1 530	810	1 255	1 194	1 208	1 456
Median income	\$8 995	\$10 315	\$9 708	\$9 960	\$8 400	\$8 747	\$8 324	\$8 526	\$9 774	\$10 861	\$10 451	\$10 221
Mean income	\$10 026	\$11 304	\$10 327	\$10 039	\$8 511	\$8 164	\$8 561	\$8 276	\$9 680	\$11 108	\$11 278	\$10 929
Unrelated individuals												
All	148	91	162	141	107	214	290	184	372	106	91	198
Median income	\$11 937	\$13 346	\$13 099	\$14 567	\$12 772	\$11 797	\$12 031	\$12 000	\$13 143	\$15 323	\$13 346	\$13 530
Mean income	\$13 514	\$16 453	\$13 074	\$14 453	\$13 366	\$13 546	\$14 558	\$13 988	\$13 840	\$15 763	\$16 453	\$13 711
TYPE OF INCOME IN 1969 OF FAMILIES												
All families	1 151	1 006	993	1 169	928	840	1 140	434	883	1 088	1 117	1 446
With wage or salary income	1 025	1001	974	1 021	774	761	1 013	563	725	1 045	1 055	1 345
Mean wage or salary income	\$9 878	\$11 010	\$10 910	\$10 078	\$8 715	\$9 388	\$9 256	\$9 624	\$10 616	\$11 067	\$10 947	\$11 724
With nonfarm self-employment income	170	125	105	148	110	105	156	64	89	148	145	179
Mean nonfarm self-employment income	\$9 555	\$8 678	\$7 888	\$6 669	\$4 645	\$7 523	\$3 323	\$4 633	\$15 019	\$5 436	\$8 049	\$7 999
With farm self-employment income	53	36	27	38	187	238	5	8	5	11	17	46
Mean farm self-employment income	\$3 036	\$1 756	\$4 763	\$2 577	\$4 158	—	—	—	\$4 646	—	\$1 797	\$2 330
With Social Security income	129	127	115	172	160	127	226	90	147	66	127	142
Mean Social Security income	\$1 508	\$1 553	\$2 044	\$1 675	\$1 617	\$2 122	\$1 600	\$2 149	\$1 892	\$1 533	\$1 949	\$1 949
With public assistance or public welfare income	—	—	14	10	29	15	18	35	—	—	9	21
Mean public assistance or public welfare income	—	—	—	—	\$1 060	—	—	\$1 295	—	—	—	—
With other income	345	411	270	335	209	367	367	27	354	323	222	370
Mean other income	\$1 564	\$1 161	\$1 921	\$952	\$720	\$997	\$1 972	\$1 319	\$2 018	\$1 516	\$1 168	\$2 007
RATIO OF FAMILY INCOME TO POVERTY LEVEL¹												
Percent of families with incomes												
Less than 50 of poverty level	3.9	1.5	2.5	1.3	1.3	3.6	2.9	2.1	2.2	1.0	1.3	1.7
50 to 74	2.5	2.6	1.3	1.5	—	—	1.4	2.2	2.3	0.4	2.3	0.9
75 to 90	0.6	1.1	0.9	4.2	2.1	—	—	4.1	2.2	0.4	1.0	1.1
100 to 124	3.6	3.0	2.1	3.3	5.7	2.0	3.6	2.5	2.4	2.9	5.0	1.4
125 to 149	2.0	2.0	2.0	3.2	2.0	2.0	1.4	1.9	4.5	2.2	2.1	4.0
150 to 199	6.6	7.8	11.8	13.1	10.9	13.3	10.3	19.6	10.6	13.3	8.0	11.6
200 to 299	29.8	31.0	24.9	23.8	37.6	31.1	25.4	25.9	21.4	28.1	31.8	26.9
300 or more	43.8	51.1	52.5	50.4	36.9	42.3	51.0	41.8	54.5	51.6	50.4	54.5
INCOME BELOW POVERTY LEVEL¹												
Families	80	59	47	81	35	41	79	53	38	19	59	34
Percent of all families	7.0	5.2	4.2	8.1	3.8	4.9	8.1	8.4	5.6	1.7	4.7	2.7
Mean family income	\$1 444	\$1 311	\$1 483	\$2 044	\$2 071	\$1 715	\$1 637	\$2 528	\$2 317	—	\$1 511	\$1 744
Mean income deficit	\$1 662	\$1 345	\$1 725	\$1 063	\$1 231	\$2 167	\$1 442	\$1 137	\$1 765	—	\$1 345	\$1 556
Percent receiving public assistance income	7	7	17.0	6.2	—	—	17.1	37.7	5.2	—	7.7	14.8
Mean size of family	2.98	2.90	3.47	3.30	4.14	3.46	3.16	3.92	3.72	—	2.90	3.54
With related children under 18 years	30	19	52	41	23	31	36	45	37	19	19	29
Mean number of related children under 18 years	3.16	—	2.50	2.44	—	2.23	2.81	2.56	2.49	—	—	2.41
With related children under 6 years	37	7	21	20	6	27	13	26	16	15	7	28
Mean number of related children under 6 years	1.76	—	—	—	—	1.32	—	1.63	—	—	—	1.57
Families with female head	8	12	11	22	6	9	21	18	29	11	12	11
With related children under 18 years	8	12	11	15	6	9	8	18	31	11	12	11
Mean number of related children under 18 years	—	—	—	—	—	—	—	—	2.00	—	—	—
With related children under 6 years	—	—	11	10	—	—	—	9	10	—	—	—
Percent in labor force	—	—	—	—	—	—	—	—	—	—	—	—
Mean income of related children under 6 years	—	—	—	—	—	—	—	—	—	—	—	—
Family heads												
Percent 65 years and over	16.3	62.5	17.8	18.5	34.3	9.8	37.1	5.7	6.9	—	63.5	11.1
Median male heads under 65 years	59	7	30	44	17	28	32	32	15	8	9	37
Percent in labor force	91.5	—	63.2	86.4	—	85.7	59.4	84.4	—	—	—	70.3
Unrelated individuals												
All	62	34	59	51	79	119	121	99	154	24	34	63
Percent of all unrelated individuals	42.6	31.4	36.4	36.2	43.4	55.6	31.0	47.8	47.5	22.6	37.4	32.1
Mean income	\$654	\$681	\$709	\$1 124	\$754	\$1 047	\$974	\$663	\$1 147	—	\$681	\$844
Mean income deficit	\$905	\$1 113	\$998	\$663	\$821	\$762	\$810	\$584	\$1 147	—	\$1 113	\$1 051
Percent receiving public assistance income	9.5	—	—	—	16.5	—	—	14.8	19.9	—	—	—
Percent 65 years and over	76.2	64.7	61.0	54.9	22.8	58.0	48.7	58.0	37.3	—	64.7	63.5
Persons												
Percent of all persons	37.2	14.5	22.5	19.8	22.8	26.1	24.5	29.6	37.8	9.6	18.8	8.8
Mean income	8.8	5.0	6.0	7.2	6.3	8.6	8.8	12.1	11.0	2.2	4.4	4.7
Percent receiving Social Security income	16.8	22.4	23.9	18.2	34.8	31.0	40.8	25.0	20.6	16.7	24.4	22.4
Percent 65 years and over	19.0	39.5	20.7	19.8	41.8	29.5	19.6	19.8	10.4	29.5	19.7	19.0
Percent receiving Social Security income	87.8	62.7	91.3	82.5	88.8	81.8	92.1	93.1	79.7	—	82.2	92.0
Related children under 18 years	152	47	125	135	65	121	92	114	86	46	67	76
Percent living with both parents	67.3	61.7	68.2	50.5	93.8	88.7	52.3	53.5	25.5	21.2	61.7	72.4
Households												
Percent of all households	79	54	39	71	73	120	138	103	164	19	54	46
Mean value of all households	100.0	6.9	7.0	8.4	11.6	13.0	11.0	14.5	14.8	1.1	6.0	5.2
Owner occupied	39	40	51	48	47	93	111	44	32	12	40	52
Mean value of unit	\$12 400	\$14 400	\$19 100	\$11 400	\$8 400	\$10 400	\$11 400	\$4 600	\$25 300	—	\$14 400	\$18 700
Renter occupied	19	14	8	27	24	25	33	59	134	—	14	8
Mean gross rent	—	—	—	—	—	54.0	58.8	54.5	36.4	—	—	—
Percent holding same or all plumbing facilities	6.4	7.4	20.3	—	37.9	4.2	—	36.9	—	—	7.4	10.2

¹Excludes inmates of institutions, members of the Armed Forces living in barracks, college students in dormitories, and unrelated individuals under 14 years.

APPENDIX B

City Directory Sample Page

Lafayette Insurance Associates

"A Full Service Agency"

Richard L. Hodley - Norman Neiburger
Edwin W. "Ed" McGuire, Jr. - Floyd B. Lux
and Howard R. Krissell

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430

PALMER

- " Marcia A with Purdue Univ r32 Prairie Ct
- " Marshall studd rDelta Tau Delta Frat
- " Mary E retd r707 Owen St
- " Patricia A prmr Mtr Finance r2651 Newman Rd (WL)
- " Philena F retd r707 Owen St
- " Philip C (Marion W) slamm Jones Bros h624 S 10th St
- " Susie studd h422 Harrison St (WL)
- " Wayne A (Marcy) pricing clk Biggs Pump & Sup h32 Prairie Ct
- " Wm J (Maryann) instr Purdue Univ h340 S Grant St (WL)
- Palmiero Anthony J (Mary J) studd h1404 Potomac Av
- " Mary J with Purdue Univ r1404 Potomac
- Palmore Eva Mrs mgr Kentucky Fried Chicken h400 N River Rd (WL) Apt 908
- " Joyce L ofc wkr Tippecanoe Furn & Uphol h1425 1/2 Kossuth St
- " Julia M (Wid Geo L) retd h1911 N 10th St
- " Pamela L with Purdue Univ r614 N 6th St
- " Ruth E (Wid Royce J) h705 N Salisbury St (WL)
- Paloney Henry F (Glenola E) tchr W L High Sch h1317 N Salisbury St (WL)
- " Robt studd r1317 N Salisbury St (WL)
- Paltridge Raymond (Betty L) bartndr Bob & Bill's Place h2317 N 18th St
- Pampel Bessie M (Wid E Ward) retd r3142 Elmwood Av
- Pamper Parlor (Waunita Patterson) 417 S 4th St
- Pan Jaming prof Purdue Univ rHomewood III
- Pancake Elsie J with Purdue Univ r710 N 5th St
- " J Herschel (Elsie J) jan Purdue Univ h710 N 5th St
- " Kathy J studd r710 N 5th St
- Pancini Geraldine studd r333 S Grant St (WL)
- " Jerry studd r224 S Grant St (WL)
- Pang Ching-Ying with Purdue Univ r120-14 Marshall Dr
- " Chok-Khon with Purdue Univ r120-14 Marshall Dr (WL)
- Pangene Steven studd h1310 Palmer Dr (WL) Apt 314
- Panick Dragoslav archt Walter Schooler h644 N 7th St
- " Slavoljub G chem eng Eli Lilly r655 N 7th St
- Panken II B (Nani) prof Purdue Univ h133 Rockland Dr (WL)
- Panlener Edith M (Wid Robt A) retd h1845 Shoshone Dr Apt 21
- Pantina James studd r124 W Wood St (WL)
- Paolantonio James R with Purdue Univ
- Paolino Ronald M (Eileen F) prof Purdue Univ h2812 Darlow St (WL)
- Papailiov Aphroditi D prof Purdue Univ r226-7 Arnold Dr
- Papas Geo N with Purdue Univ rCory Quadrangle Box 728 (WL)
- Papatheodorou Theo (Vasiliki) with Purdue Univ h400 N River Rd (WL) Apt 912
- Pape Wm I (Ruth P) dist mgr Northwestern Mutual Life Ins h2535 Whitehall Dr
- Papke James A prof Purdue Univ rRt 10 Ex 57 (WL)

PAPLAWSKI

- Paplawski Lola Mrs maid Purdue Univ r618 N 6th St
- Pappas Nova S (Wid Nick) retd h519 Madison St
- Paprocki Douglas W (Gretchen N) tchr Jefferson High Sch h1240 Sunset Dr
- " Judith L nurse Lafayette Sch Corp rBrookston Ind
- " Vera M Mrs nurse Lafayette Home Hosp h202 S 9th St Apt 5
- Paquette Armand h711 S 9th St
- Paradiso Marian Mrs tchr W L High Sch r1700 Ravinia Rd
- " Saml M (Marian B) mgr Eli Lilly h1700 Ravinia Rd (WL)
- Pardek Joe studd h2450 Sycamore La (WL) Papt 16a
- Pardue Harry L (Ruby A) prof Purdue Univ h1114 Hillcrest Rd (WL)
- Parejkle Kenn S (Judy K) h1517 South St
- Parent Pierre P (Judith M) prof Purdue Univ h2501 Linda La (WL)
- Parente John R (Betty L) prin Cumberland Elem Sch h105 W Sunset La (WL)
- Paris Arth H (Ethel) meat ctr Justrite Food Serv h113 S 30th St
- " Gene (Deanna) ship & rec clk Kirby Risk Distr & Serv rBox 114 Clarkshill Ind
- Pariseau Janice C with Purdue Univ rRt 2
- Parish Barbara P h2350 Yeager Rd (WL) Apt 14 4
- " Charles R with Purdue Univ r1805 Eastway Dr
- " Connie r2601 Soldiers Home Rd (WL) Apt 58
- " Jacqueline Mrs tchr Tecumseh Jr High Sch r1805 Eastway Dr
- " Jimmie L clk Eisner Food Stores rRt 1 Battle Ground
- " Noble h1006 Teal Rd
- Park See Also Parke And Parks
- " Don L (Ruth A) state installer Genl Tel h2002 Thompson St
- " Dorothy H with Purdue Univ r2250 Yeager Rd Apt 13-2 (WL)
- " Earl L (Mildred I) stat Purdue Univ h2800 Ashland St (WL)
- " Edgar R (Dorothy) purch agt Purdue Univ h2550 Yeager Rd (WL) Apt 13 2
- " Elmer B retd h1916 Congress St
- " Karen Mrs aide St Elizabeth Hosp r2550 Yeager Rd (WL) Apt 13-2
- " Ranson D (Edith L) computer programmer Burroughs Corp h1121 Rochelle Dr
- Parke See Also Park And Parks
- " Dennis D studd h415 S Chauncey Av (WL) Apt 3
- " Donna clk Lafayette Life Ins r34 Lori Lee Dr
- " Mildred prs opr Brown Rubber h1018 N 16th St
- Parker Alan D studd r1015 Lindberg Rd (WL)
- " Albert J (Donna R) prof Purdue Univ h1015 Lindberg Rd (WL)
- " Audrey J Mrs physical therapist Cerebral Palsy Clinic Of Purdue Univ r174 Sumac Dr (WL)
- " Bernard E (Eliz) with Purdue Univ h625 Russell St (WL)
- " Bernice Mrs aide St Elizabeth Hosp r6 N 10th St

PARKER

- * Betty Mrs ofc sec Y M C A rRt 5
- * Brian studt r174 Sumac Dr (WL)
- * Bryce G (Minta J) installer Genl Tel Co h2604 Summerfield Dr
- * D Verdelie (Mary L) prof Purdue Univ h120 Seneca La (WL)
- * Danl L (Debra L) emp Ind Waste Serv h2120 Charles St
- * Dennis L rPhi Kappa Psi
- * Donald O (Florence I) pres Star Lanes Corp h2810 Kossuth St
- * Earl (Betty) driver Verplank Concrete & Sup r910 Elston Rd
- * Evelyn A with Purdue Univ rRt 5
- * Francis A emp T R W Ross Gear rBrookston Ind
- * Francis B sec Central Acceptance Corp h136 Andrew Pl (WL)
- * Francis H (Audrey J) prof Purdue Univ h174 Sumac Dr (WL)
- * Geo R with Purdue Univ rRt 9
- * Geo V (Kath L) ret'd h1222 N 15th St
- * Harold L (Mary L) driver IWA h917 N 8th St
- * Herbert E prof Purdue Univ rRt 9
- * Homer L (Joanne L) (Mar-Jean Arco) h2222 Union St
- * Horace (Orbella K) lab Purdue Univ h124 S 7th St Apt 3
- * James L (Gladya) slsmn Genl Refgr Sup rDanville Ind
- * Jeanette Mrs hsekrp St Elizabeth Hosp
- * John E (Cynthia L) eng Birdseye Genl Foods h3273 S 9th St
- * John G (Sharon M) driver Coml Mtr Frt h1206 Brown St
- * John R studt h2501 Soldiers Home Rd (WL) Apt 59
- * Josephine E Mrs salad wn Purdue Univ h1226 N 15th St Apt 4
- * Juanita (Fashion Coiffeurs Of Lafayette) r1718 Congress
- * Karen K with Purdue Univ r2527 Derbyshire Ct (WL)
- * Karl L (Cladudne) mech Davis Constn h250 Green St
- * Kath prsr Hudlow Clns r1222 N 15th St
- * Kenneth L (Sandra) lab Greater L TV Cable h1413 Salem St
- * Larry E (Beverly G) studt h115 E Oak St (WL)
- * Larry G studt h415 S Chauncey Av (WL) Apt 5
- * Larry W (Pam J) security guard Essex International h13 N 22d St
- * Lois H Mrs instr Purdue Univ h101 Andrew Pl (WL) Apt 313
- * Lucille G Mrs with Purdue Univ rAttica Ind
- * Marion P (Jeanette) dispr County Hwy Dept & Garage h912 N 10th St Apt 1
- * Mary C (Wid Paul E) ofc wkr Sunnyside Jr High Sch h2705 Union St
- * Mary L Mrs with Purdue Univ r120 Seneca La (WL)
- * Mary N Mrs clk Eisner Food Stores rRt 12 Box 374
- * Max W (Bernice C) color matcher Egyptian Lacquer Mfg h6 N 23d St
- * Melvin A fcty wkr T R W Ross Gear rRt 4
- * Michl L studt r917 N 8th St
- * Mike studt r325 Pearl St (WL)
- * Nancy A studt r2705 Union St
- * Raymond E (Mary M) tool mkr T R W Ross Gear h1207 S 17th St
- * Rchd A (Aldora L) formn A L C O A h1395 Shenandoah Dr
- * Rchd M Jr (Charlotte E) emp Fairfield Mfg h613 Alder Dr

PARKER

- * Roy (Phyllis) extractor Crown Lndry & Cln h251 Green St
- * Roy studt r333 W Stadium Av (WL)
- * Russell (Shirley) studt h808 1/2 Ferry St
- * Sharon M Mrs nurse St Elizabeth Hosp r646 Romig St
- * Thelma C (Wid Geo B) typ Steamco Inc h1725 Whitcomb Av
- * Thos E with Purdue Univ r2527 Derbyshire Ct (WL)
- * Thomas E (Ellen L) slsmn Wash Automotive Sup h1313 Greenbush St
- * Von E (Jane H) supt Consolidated Industries h2401 Shasta Dr
- * Wm L (Juanita J) formn Genl Tel h1718 Congress St
- * Parkes Jane E studt r102 W Wood St (WL)
- * Parkhurst Nelson M registrar Purdue Univ r2100 Fairway La (WL)
- * Parkinson Wm L (Maria T) (Elsalyn Shop) h209 E Navajo St (WL)
- * Parkison Clara E with Purdue Univ rRt 12 Bx 245
- * Robt S (Tammy) studt h217 1/2 Perrin Av
- * Parks Sec Also Prnk And Parke
- * Clyde C (Edith C) carp Natl Homes h801 1/2 S 30th St
- * Dennis H with Purdue Univ h113 1/2 S 9th St
- * Dorothy E (Wid Luther E) with Purdue Univ h1102 N 10th St Apt 4
- * Duane R studt r42 Vernon La
- * E Janet with Purdue Univ rRt 6 Box 138
- * Eliz tech St Elizabeth Hosp r529 Westchester Dr
- * Helen with Purdue Univ rHammond Ind
- * Janet L studt r430 N River Rd (WL) Apt 205
- * Max L (Marilyn L) lab A L C O A hS US 52 By-Pass Lot 63
- * Melvin T Jr ptr Purdue Univ h2408 Yuma Dr
- * Nancy waitress The Depot h149 S 3d St
- * Pamela kitchen hpr Lafayette Care h1218 Columbia St Apt 6
- * Robt C (Fern I) asst tech Purdue Univ h2581 Lafayette Dr
- * Robt P (Barbara) with Purdue Univ h1200 Happy Hollow Rd (WL) Apt 402
- * Ruby M (Wid Morris R) ret'd h491 Maple St (WL)
- * Sherry Mrs tchr Cumberland Elem Sch h2601 Soldiers Home Rd (WL) Apt 48
- * Tommy emp T R W Ross Gear rFrankfort Ind
- * Veronica I with Purdue Univ rRt 11 Box 253-B
- * Parkside Pharmacy John D Gerhart Mgr 2500 South St
- * Parkway Hotel (Mrs Florence T Brown) 525 N 7th St
- * Parlon Eliza G (Wid Caleb C) ret'd h332 W Stadium Av (WL)
- * John C (Marjorie R) slsmn Yount Realty h1109 Kossuth St
- * John R tchr Tippencanoe Jr High Sch h2117 S 9th St
- * Richd T (Besse Pl) farm mgr h808 Central Av
- * Parman Allen studt h123 1/2 E Oak St (WL)
- * Donald L (Nadyne J) prof Purdue Univ h468 N Salisbury St (WL)
- * Parmelee Carlton E instr Purdue Univ r541 Dexter La (WL)
- * Danl E with Purdue Univ r541 Dexter La (WL)
- * Permitt Wm J with Purdue Univ rAttica Ind

**Who's
Who-
and
Where?**

Such questions can only be answered by the Directory and that is where people look when they want to buy.

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Commercial • Industrial • Residential

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APPENDIX C

Lafayette Area Firm List

Appendix C. Lafayette Area Firm List

***** THIS IS A LIST OF FIRMS IN TIPPECANOE AT THE 4TH QUARTER OF 1970 **

EMPL CODE	FIRM NAME	AREA CODE FIPS	IDENT	ADDRESS
E	PURDUE UNIVERSITY			
F	ALUMINUM CO OF AMERICA	1571 3352	4065	
E	NATIONAL HOMES CORP	1571 433	15007	
D	LILLY ELI + COMPANY	1571 2834	2058	
D	FAIRFIELD MANUFACTURING	1571 3566	443	
D	DUNCAN ELECTRIC COMPANY	1571 3611	1358	
D	TRW INC	1571 3714	19637	
C	KETTELHUT KARL J	1572 1510	6720	
C	FAUBER CONSTRUCTION CO INC	1571 1610	33145	
C	CARTER ROBERT CORP JOSEPH	1571 1710	31322	
C	DAVIS RUSSELL F INC	1571 1790	33186	
C	HOLLOWAY HOUSE	1571 2037	66304	
C	ANHEUSER BUSCH INC	1571 2046	4179	
C	RALSTON PURINA CO	1571 2092	24925	
C	LAFAYETTE JOURNAL + COURIER	1571 2711	40910	
C	PORTER H K - BRDWR RUBBER	1571 3069	14794A	
C	ROSTONE CORP	1571 3079	9807	
C	REA MAGNET WIRE	1571 3357	1216A	
C	ESSEX INTERNATIONAL INC	1571 3357	8757	
C	BERGER STEEL CO INC THE	1571 3441	38731	
C	PEERLESS WIRE GOODS CO INC	1571 3481	1914A	
C	SCHMAH SAFE CO	1571 3492	4586A	
C	ANDOVER INC	1571 3621	25065A	
C	GLOBE-UNION INC	1572 3679	2282	
C	CTS MICROELECTRONICS INC	1571 3679	11423	
C	ESSEX INTERNATIONAL INC	1571 3694	8757	
C	WARREN PAPER PRODUCTS COM	1571 3641	895	
C	PURDUE AIRLINES INC	1572 4520	22509	
C	GENL TELEPHONE CO	1570 4810	3175A	
C	SEARS ROEBUCK AND CO	1572 5310	3824	
C	PENNEY, J C CO	1571 5310	4136	
C	KRESGE S S CO	1571 5310	4361	
C	AYRES DEPT STORES INC	1571 5310	27127	
C	LOEBS INC	1571 5310	78803	
C	JEWEL TEA CO	1571 5410	1471A	
C	PAY LESS SUPER MARKET	1571 410	41474	
C	F + G LAFAYETTE INC	1571 5530	6418	
C	LUCKY STEER STEAK HOUSES	1572 5810	11147	
C	SOUTHWORTH PURDUE BOOK	1572 5940	14308B	
C	LAFAYETTE NATIONAL BANK	1571 6020	13890	
C	PURDUE NATIONAL BANK OF LI	1571 6020	13904	
C	NATIONAL HOMES ACCEPTANCE	1571 6150	30021	
C	LAFAYETTE LIFE INSURANCE	1571 6310	1915	
C	STATE FARM FIRE CAS CO	1571 6330	12621	
C	STATE FARM MUTUAL AUTO	1571 6330	12623	
C	HOWARD JOHNSON MOTOR LODG	1571 7010	72908	
C	CORPORATE CLEANING SYS INC	1571 7340	2486A	
C	ARNETT CLINIC AND HOSPITAL	1571 8060	2036	
C	LAFAYETTE CARE INC	1572 8090	10716	
C	INTERNATIONAL BROTHERHOOD	1571 8630	16339	

C LAFAYETTE MUNICIPAL UTILITIES	1571 9349	63553
C P O LAFAYETTE	1571 9190	120053
B KOEHLER BROS INC	1571 9730	61137
B WESTERN INDIANA AGGREGATE	1571 1440	4880A
B FAIRFIELD BUILDERS SUPPLY	1571 1440	20273
B ELLISON C W BUILDERS INC	1571 1510	9708
B HENRY CONSTRUCTION CO INC	1571 1510	13681
B GENERAL BUILDERS OF LAFAYETTE	1571 1510	20309
B KEMMER CONSTRUCTION CO INC	1571 1510	42587
B GRACE ED CO INC	1571 1710	32748
B SNYDER + LEHMAN	1571 1710	43000
B KORSCHOTS HEATING + AIR C	1571 1710	58593
B SQUARE DEAL INC	1572 1730	62807
B SCHARER DON MASONRY CONTR	1571 1740	69210A
B CAGLE DRYWALL INC	1571 1790	25382
B VAN MEETER EXCAVATING INC	1571 1790	42289B
B CHAMBERLIN ICE CREAM COMP	1571 2024	3160
B BORDEN CO	1571 2026	4708
B DEAN FOODS CO	1571 2026	41609A
B GENERAL FOODS CORP	1571 2037	19342
B GRAVES QUALITY BAKERY INC	1572 2051	25360
B KYGER, JAMES A	1571 2051	72634
B MARY LOU DOYUTS OF INDIAN	1571 2051	72778
B COCA COLA BOTTLING CO	1571 2086	2132
B NEW CENTURY HOMES INC	1571 2433	27584
B ALTON BOX BOARD	1571 2631	7909
B HAYWOOD PUBLISHING COMPANY	1571 2751	684
B LAFAYETTE PRINTING COMPANY	1571 2751	5851
B LAFAYETTE TYPESETTING CO	1571 2791	3706
B LAFAYETTE PHARMACY INC	1571 2834	302
B EGYPTIAN LACQUER MANUFACT	1571 2851	22567
B GREAT LAKES CHEMICAL CORP	1572 2911	71599
B LAFAYETTE PEPE CORP	1571 3272	5864
B CONSTRUCTION PRODUCTS CORP	1571 3272	25012
B CONSOLIDATED INDUSTRIES C	1571 3433	21882A
B AR-KAY-TEXTURAL METAL FABR	1571 3446	10424
B RUSH METAL PRODUCTS INC	1571 3461	38869
B INDUSTRIAL PLATING INC	1571 3471	65114
B EVEN-FLO SILAGE DISTRIBUT	1571 3522	62931A
B LEAMAN MACHINE CORP	1571 3544	25456
B ALLOY CRAFTS CO	1570 3559	67671A
B METALMASTERS INC	1571 3599	41436
B DYNAMIC CORP INC	1570 3622	52194A
B LAFAYETTE INSTRUMENT CO I	1571 3811	44521A
B BRADA MILLER FREIGHT	1571 4210	5316A
B I + S McDANIEL INC	1571 4210	6864
B QUALITY CARRIERS INC OF I	1571 4210	32436
B HIGGINS ERECTORS + HAULER	1571 4210	55546
B REID AIRWAYS INC	1572 4580	25341
B RADIO STATION WASK	1571 4830	17250A
B W L F I TV	1571 4830	19133
B PUBLIC SERVICE CO OF INDI	1571 4910	16128
B IND GAS CO	1571 4920	22274
B LAFAYETTE WHITE AUTO CAR	1571 5010	137
B CSHNAIBLE DRUG COMPANY	1571 5020	5066
B TIPPECANOE MEAT + FISH IN	1571 5040	26295A
B JUSTRITE FOOD SERVICE INC	1571 5040	60636
B GARDEN CITY FOODS INC	1571 5040	68442
B LAFAYETTE COOPERATIVE ELE	1571 5050	5865

B KIRBY RISK SUPPLY CO INC	1571 5060	23846
B BIGGS PUMP AND SUPPLY INC	1571 5070	21115
B VIERK SUPPLY CO INC	1571 5070	46108A
B INTERNATIONAL BUSINESS MA	1571 5080	58702
B TWIN CITY NEWS AGENCY	1571 5090	35525A
B MORRAL PROPANE CORP	1571 5090	57667
B BETTER BRANDS INC	1571 5090	59052
B VON TOSSEL WHOLESALERE SUPPL	1571 5090	69164
B POOR HENRY LUMBER COMPANY	1572 5210	6310
B LAFAYETTE RELIABLE COAL	1571 5210	13379
B VERPLANK CONCRETE AND SUP	1572 5210	40166
B LAFAYETTE GLASS CO INC	1571 5230	39297A
B INTERNATIONAL HARVESTER	1571 5250	17650A
B TOPPS OF LAFAYETTE INC	1571 5310	24398
B SHOPPERS FAIR OF LAFAYETTE	1572 5310	72992
B S F STORE OF LAFAYETTE INC	1572 5310	73153
B KRESGE S S CO	1571 5330	4361
B KRESGE S S CO	1571 5330	4361
B WOOLWORTH, F W CO	1570 5330	4626
B GRANT W T CO DELA	1572 5330	15523
B CONSOLIDATED FOODS CORP	1571 5350	16124
B NEUHELT FABRIC DEALER	1571 5390	52365
B NATIONAL TEA CO	1570 5410	4490
B R W INC OPR K-MARK FOODS	1571 5410	5519
B KROGER CO	1570 5410	17660
B SMITTY'S FOODLINER	1572 5410	36699A
B MARSH SUPERMARKETS INC	1571 5410	38498
B MARSH SUPERMARKETS INC	1571 5410	38498
B HIGHLANDER FOOD MKT INC	1571 5410	63640
B PRODUCERS DAIRY STORES	1571 5450	6888
B MISTER MONUT	1572 5460	16490
B OREARS PASTRY SHOP INC	1571 5460	34118A
B FIREPROOF GARAGE CO	1571 5510	4720
B PITMAN GLENN R INC	1571 5510	25188
B ANDREWS, BILL OLDS MOBILE	1571 5510	26235
B KENDRICK BUICK CAILLAC	1571 5510	31389
B FOXWORTHY, O H INC	1571 5510	41407
B UNIVERSITY MOTORS INC	1571 5510	64490
B DEFOUX CHEVROLET INC	1571 5510	69321
B UNIT PARTS INC	1571 5530	25199
B GORES TIRE COMPANY INC	1571 5530	42979
B GORES TIRE COMPANY INC	1571 5530	42979
B SKY RIDE PETROLEUM PRODUCTS	1571 5540	43799
B BALTIMORE MENS SHOP INC	1571 5610	42978
B FASHION SHOP	1571 5620	23322A
B REIFERS FURNITURE COMPANY	1571 5710	2873
B FRISCHS BIG BOY	1571 5810	5928
B WEST LAFAYETTE BUTCHER	1572 5810	8002
B MARKET SQUARE	1571 5810	9230
B PURDUE BURGER CHEF INC	1572 5810	17350
B LAFAYETTE RARE BURGER C	1571 5810	19927
B PIZZA HUT OF LAFAYETTE INC	1572 5810	20235
B FLAME INC	1571 5810	20840A
B P S C BURGER CHEF INC	1572 5810	24498
B BURGER KING RESTAURANT	1572 5810	26818
B THIRTY ONE FLAVOR BASKIN	1572 5810	27225
B BURGER KING RESTAURANT	1571 5810	27326
B M C L WEST LAFAYETTE INC	1572 5810	29868
B DAIRY QUEEN STORES	1572 5810	32081
B LUMS RESTAURANT	1571 5810	32400
B TIJUANA TACO INC	1571 5810	33910

B BILTZ SARGE INC	1571 5810	34643
B DEPOT INC	1571 5810	379450
B LAFAYETTE PARK-4-7-AT INC	1572 5810	40072C
B B + M RANCH HOUSE + RUMPZ	1571 5810	41002
B B K ROOT BEER	1571 5810	41668
B PATIO DRIVE IN	1571 5810	43234B
E SARGENTS FINE FOODS	1571 5810	51447
B MORRIS BRYANT FOOD SERVICE	1571 5810	52457B
B JERRYS CAFETERIA + CATERE	1571 5810	56216
B McDONALDS HAMBURGERS	1572 5810	61209A
B PIZZA KING FRANCHISES INC	1571 5810	62456A
B LAFAYETTE BURGERCLIFF INC	1571 5810	64915
B FRISCHS BIG BOY OF LAFAYE	1571 5810	71430
B PAULS FINE FOODS INC	1572 5818	72032
B HOWARD JOHNSON RESTAURANT	1571 5810	72907
B HOOK DRUGS INC	1571 5910	3312
B GOODNIGHTS SUPER DRUG STORE	1571 5910	18592B
B OSCO DRUG INC	1572 5910	31953
B ARTH DRUGS INC	1571 5910	41175
B ARTH STATE STREET DRUGS	1572 5910	41176
B GOODNIGHTS W L SUPER DRUG	1572 5910	64084
B UNIVERSITY BOOK STORE INC	1572 5940	25027B
B IMPERIAL EQUIPMENT CORPOR	1571 5940	72249
B CLARK FLORAL COMPANY	1571 5990	22342B
B LAFAYETTE BANK AND TRUST	1571 6020	5921
B FIRST FEDERAL SAV + LOAN	1571 6120	39237
B LAFAYETTE PRODUCTION CREDIT	1571 6130	34872
B WESTERN AND SOUTHERN INS	1571 6310	3596
B PRUDENTIAL INS CO OF AMER	1571 6310	3836
B METROPOLITAN LIFE INS CO	1571 6310	4352
B UNITED FARM BUREAU INS C	1571 6330	920
B RETAIL CREDIT CO	1571 6410	5435
B EQUITY FUNDING CORP	1572 6410	16156
B SMITH JOHN B + CO INC	1571 6510	20354
B KEVINCREST REALTY CORP	1572 6530	9785
B HOLIDAY INN OF LAFAYETTE	1571 7010	283
B INDIANA FLORIDA REALTY TR	1571 7010	16585A
B STARKEY CRAIN CORP	1571 7010	35060
B GREEN ACRES MOTEL + RESTA	1571 7010	43337A
B FOWLER HOTEL INC	1571 7010	62199A
B CAMPUS INN	1572 7010	71900
B CROWN LAUNDRY + CLEANING	1571 7210	748
B HUOLOWS INC	1572 7210	19062A
B LAFAYETTE LINEN SUPPLY CO	1571 7210	38794
B SPARKLESTONE INC	1572 7210	58950
B MARINELLO BEAUTY PARLOR	1571 7230	48543
B ARANEIDA INC	1572 7390	25764
B CULLIGAN WATER CONDITIONI	1571 7390	46602B
B MIDWEST APPLIED SCIENCE C	1571 7390	60615
B KIRBY RISK DISTRIBUTION	1571 7690	23778
B FOURTH AVE CORP	1571 7830	5147
B COLLEGIATE SINGERS	1572 7920	17058
B VINTON HOMES INC	1571 7930	70297A
B LAFAYETTE COUNTRY CLUB IN	1571 7940	19847
B WOMANS CLINIC	1571 8010	47757A
B LAFAYETTE DENTAL LABORATO	1571 9070	28122B
B PHYSICIANS CLINICAL LABOR	1571 8070	58239C
B COMFORT INC	1571 9090	994
B LAFAYETTE AMERICAN INC	1571 9090	25132
B BOWLES LAURA M CONVALESCE	1570 9090	25966
B LESLEY NURSING HOME	1570 9090	68758

B BENEVOLENT ASSOCIATIVE	01571	8640	7330
B AMERICAN LEGION POST 11	1571	8640	23404
B SCHOLEY WALTER & ASSOCIATES	1571	9910	22079A
B WEST LAFAYETTE SEWAGE DIS	1572	9349	64105
B FEDERAL AVIATION AGENCY	1571	9190	131008
B AGRI RESEARCH SERV	1571	9190	159006
B STATISTICAL REPTG SERVICE	1572	9190	315014
A DEKALB AG RESEARCH INC	1571	0190	11171
A WABASH VALLEY NURSERIES	1571	0190	57363
A TIPPECANOE ANIMAL HOSPITAL	1571	0720	30362
A LAFAYETTE VETERINARY HOSP	1571	0720	67550
A DENNIS LAHN SERVICE	1571	0730	26028
A LAFAYETTE GRAVEL INC	1571	1440	18700
A W + J BUILDERS	1571	1510	6535
A SCHROYER CONSTRUCTION CO	1572	1510	6416A
A EXECUTIVE HOMES INC	1572	1510	7854
A EBERLE AND MORTELL INC	1571	1510	8155
A COMMUNITY HOMES INC	1572	1510	10466
A RUTAN DON BLDR	1571	1510	10691B
A OVERMAN CONSTRUCTION CO	1571	1510	11133A
A LAWSON CONSTRUCTION COMPANY	1571	1510	11958
A H + H CONSTRUCTION INC	1571	1510	12130A
A B + B SCHWARTZ CONSTRUCTION	1571	1510	12821A
A THISE, R J CONSTRUCTION	1571	1510	13102
A VALLEY CONSTRUCTION CO	1571	1510	15265
A KOERNER CONSTRUCTION CO	1571	1510	15273
A SMITH MARION L	1571	1510	19106
A KEISER + KEISER CONTRACTORS	1571	1510	21456A
A TOSCANO HOMES INC	1572	1510	21969
A COMMUNITY CONSTRUCTION INC	1572	1510	24167
A INABNITT + RUPEL INC	1571	1510	27485
A CLARKS HOUSE REMODELERS	1571	1510	27885
A BUCKLEY ROBERT A INC	1571	1510	30779
A UNITED INSULATED STRUCTUR	1571	1510	31549
A RAUSCH, LOUIS CONSTRUCTION	1571	1510	32647A
A DALLAS + SONS GENERAL CON	1571	1510	34068
A RUPRIGHT, OTIS BUILDERS	1571	1510	42795B
A DONALD D MARTIN BUILDER	1572	1510	43272A
A RAUSCH CASPER	1571	1510	46855
A TORRENGA, LEROY J	1572	1510	47746
A GENERAL HOMES OF LAFAYETTE	1571	1510	50787C
A CHAPPELL, GENE CONTRACTOR	1571	1510	51999
A BAUMGARTNER, LES CONSTRUCTION	1571	1510	52665
A KLINKER RAYMOND	1572	1510	55270
A RICHARD, EUGENE	1571	1510	56889
A PAYNE + CO BUILDERS	1572	1510	56980
A AGRI BUILDERS INC	1571	1510	70370
A KLOOZ PLUMBING	1571	1710	10884
A BAUGHER REFRIGERATION INC	1571	1710	18756A
A WILLIAMS H D + SON PLBG	1571	1710	22956
A SPEAKER F H AND SON INC	1572	1710	27333
A SYR PLUMBING + HEATING INC	1571	1710	32039
A LARSON PLUMBING AND HEAT	1571	1710	40635
A NELSON MILES A + SONS INC	1571	1710	42157
A WILLIAMS PLUMBING + ELECT	1571	1710	60101A
A GODDARD'S PLUMBING + HEAT	1571	1710	62670
A HODGES HEATING CO	1571	1710	65162
A BOWMER SHEET METAL CO	1571	1710	68643
A BAUGHER BROTHERS	1571	1720	13267

A PARTICULAR PAINTING CO	1571 1720	22560
A THIN CITY PAINTING + DECORATI	1571 1720	66329A
A WELLS PAINTING + DECORATI	1571 1720	68639A
A BRUMMET, RON ELECTRIC	1571 1730	10988
A GARRETT AND WILDS ELECTRI	1571 1730	11784
A THIN CITY ELECTRIC CO INC	1571 1730	29885
A MCKINNISS ELECTRIC INC	1571 1730	60275
A J + M MASONRY CONTRACTORS	1571 1740	28922
A A CASSINI TILE + TERRAZZO	1571 1740	43035A
A HUB-CRUM CO	1571 1740	46596A
A OARNELL PLASTERERS	1571 1740	48705A
A BROWN, F ROBERT	1571 1740	66816
A SHEPPARDS CARPET INSTALLA	1571 1750	11341
A TRAPP ROGER E ROOFING + S	1571 1760	27218
A SAGE AND COMPANY INC	1571 1760	30367B
A BALKEMA, JOHN TIM SHOP	1571 1760	45316A
A SULLIVAN + FORTNER ROFFIN	1571 1760	49226A
A SNYDER SHEET METAL CO	1571 1760	58043
A EMERY SHEET METAL CO	1571 1760	62941
A CEMENT CONSTRUCTION	1571 1770	11371
A LAFAYETTE CONCRETE CO INC	1571 1770	15305A
A CONCRETE FORMS CO INC	1571 1790	7727A
A SEES DRYWALL + PAINTING	1571 1790	19705
A GLASS SPECIALTY CO OF IND	1571 1790	24750
A CASSIDY L C + SON	1571 1790	38122A
A HILT CONSTRUCTION	1571 1790	48528
A FAIRHALL ELEVATOR INC	1571 1790	60252A
A GIBSON, L H WRECKING CO	1571 1790	69522
A HARRIS, C A POPPORN CO IN	1570 2099	55316A
A LAFAYETTE TENT + AWNING C	1571 2394	36097
A LAFAYETTE LUMBER + CABINE	1571 2431	33203
A NATIONAL STRUCTURES INC	1571 2433	44638A
A VANCOR MFG + SUPPLY CO	1571 2511	5106
A UNITED MFG + DISTRIBUTING	1571 2541	62929A
A LAFAYETTE VENETIAN BLIND	1571 2591	40564
A LAFAYETTE LEADER	1571 2711	27969
A LAFAYETTE LEADER	1571 2711	48537
A COMMERCIAL PRINTING CORPO	1571 2751	47451A
A TRIO ENGRAVING INC	1571 793	6884
A CLEAR CUT ENGRAVING CO IN	1571 2793	54839
A MCCONNAUGHAY K E INC	1571 2951	55990
A PERRY CHEMICAL AND MANUF	1571 3079	70738
A WEST LAFAYETTE CONCRETE P	1571 3271	5125
A CONCRETE READY-MIX CO INC	1571 3273	29084A
A ARROW BURIAL VAULT CO	1571 3272	63348
A VAUGHAN MONUMENT CO	1571 3272	68648A
A CHEMROCK CORP	1571 3295	27986
A LAFAYETTE QUALITY PRODUCT	1571 3444	72293
A LAFAYETTE METAL PROCESSOR	1571 3461	58539
A U S METALITE CORPORATION	1571 3499	72809
A PIONEER MOLD + MACHINE CO	1571 3544	26029
A PEERLESS PATTERN + MACHIN	1571 3599	36064A
A P + H ELECTRONICS	1571 3662	71140
A INVALID TRANSFER INC	1571 4110	21427
A SHIPLEYS AMBULANCE SERVICE	1571 4110	26587
A YELLOW-RED CAB DRIP	1571 4120	16725A
A CLIFFS VETERAN CAFE INC	1571 4210	29361A
A BUS TERMINAL	1571 4170	25028
A SCHURMAN-LANGE COMPANY IN	1571 4210	8394B
A COMMERCIAL MOTOR FREIGHT	1571 4210	12299
A THIN CITY MOVING AND STOR	1571 4210	14888A

A GRENAT, IVAN C TRUCKING I	1571 4210	15340
A QUALITY CARRIERS INC	1571 4210	18011
A PITMAN S R TRUCKING CO IN	1571 4210	31964
A ARDAPPLE STORAGE AND MOVI	1571 4210	32693
A SMITH, HAROLD E	1571 4210	36108
A COURIER NEWSOM EXPRESS	1571 4210	38593
A SIGNAL DELIVERY SERVICE I	1571 4210	42012A
A ROYS TRANSFER INC	1571 4210	49501
A LUCKY JOY E	1571 4210	49933
A LAFAYETTE CARTAGE COMPANY	1571 4210	53725A
A CADLE, MELVIN MATHEW	1571 4210	60887
A TAYLOR, C O AND MERLE G	1571 4210	70655
A CONTINENTAL FREEZERS OF I	1571 4220	5829
A LAFAYETTE REFRIGERATED SE	1571 4220	33953A
A HALSNER FLYING SERVICE	1571 4580	13507
A ARETZ FLYING SERVICE INC	1570 4580	33766
A IRVINES TRAVEL SERVICE	1572 4720	8473
A INDIANA BELL TELEPHONE CO	1571 4810	1501
A WEST POINT TELEPHONE COMP	1570 4810	52934
A WESTERN UNION TEL: GRAPH	C1570 4820	4048
A WXUS RADIO	1571 4830	31885
A WAZY RADIO INC	1571 4830	66152
A GREATER LAFAYETTE TV CABL	1571 4890	6420
A WEST LAFAYETTE WATER COMP	1572 4940	3051
A HICKS + SONS INC	1571 4950	15348A
A CONTINENTAL SANITATION SE	1571 4950	29029
A INTERSTATE BATTERY SYSTEM	1571 5010	16652
A PORTER H K CO INC	1571 5010	14794A
A LEWIS GMC TRUCK CENTER	1570 5010	33991
A COLONIAL BAKING CO	1571 5040	1697
A BERK POULTRY CO	1571 5040	14246A
A SEVEB UP BOTTLING CO OF I	1571 5040	24523A
A SMITH CANDY + TOBACCO CO	1571 5040	42199A
A DEHAHNS PRODUCE CO	1571 5040	46328A
A KISSELL POULTRY	1571 5040	49505A
A WABASH FOODS INC	1571 5040	70124A
A BEST DISTRIBUTING CO INC	1571 5040	72641
A GARROTT GRAIN CO INC	1570 5050	48711
A ROMNEY GRAIN CO	1570 5050	49219A
A BUCK CREEK ELEVATOR	1570 5050	60743
A CRANE STATION ELEVATOR CO	1571 5050	63271A
A C W Y ELECTRONICS INC	1571 5060	12584
A LAFAYETTE RADIO SUPPLY IN	1571 5060	38346
A GEN REFRIGERATION SUPPLY	1571 5060	64761
A STEAMCO, INC	1571 5070	57308
A SPERRY RAND CORP	1571 5080	1436A
A BURROUGHS CORP	1571 5080	8167
A OTIS ELEVATOR CO	1571 5080	9608
A LAFAYETTE DISCOUNT + SALV	1571 5080	13754
A EBERSHOFF OFFICE MACHINES	1571 5080	19196A
A LANE ENGINEERING SPECIALT	1572 5080	28990
A DATA ACTION CORP	1572 5080	30469
A CHICAGO TUBE AND IRON COM	1572 5080	42283
A COMMERCIAL KITCHEN SUPPLI	1571 5080	46997
A LAFAYETTE OFFICE SUPPLY I	1571 5080	56910
A BOYLAND HOSPITAL SUPPLY I	1571 5080	65933
A DEVERALL INDUSTRIAL EQUIP	1571 5080	67059
A PHILLIPS PETROLEUM CO	1570 5090	3351
A ATLANTIC RICHFIELD CO	1571 5090	9825B
A WINSKI OSCAR COMPANY INC	1571 5090	10569
A JONES BROTHERS CO	1571 5090	13500

A AMERICAN OIL CO TIE	1571 5090	14861
A HORNER FUELS INC	1571 5090	15174
A PERLMAN BROTHERS INC	1571 5090	15822A
A ANDERSON B L CO INC	1572 5090	25384
A LAFAYETTE BEVERAGE DISTRI	1571 5090	30372A
A SHELL OIL CO	1570 5090	32055
A QUALITY BEERS INC	1571 5090	35678
A LAFAYETTE BOTTLED GAS CO	1571 5090	46324A
A GENTRY H G	1571 5090	49911
A LEFFERT OIL CO INC	1571 5090	56783A
A DYE C T AND SONS LUMBER C	1571 5210	6843
A MIDWEST ROOFING AND INSUL	1571 5210	11832
A DESSENER HENRY J L BR CO I	1571 5210	23303
A TOWN + COUNTRY LUMBER CO	1571 5210	28387
A EAGLE LUMBER DEALERS SUPPL	1571 5210	36135
A SPEER BUILDING MATERIALS	1571 5210	42588A
A STOCKWELL LUMBER COMPANY	1570 5210	44139
A LAWSON LUMBER COMPANY	1571 210	48539
A CONCRETE PRODUCTS CO OF L	1571 5210	49506
A ECONOMY LUMBER INC	1571 5210	65763
A SCHOMERS, P H PLUMBING AN	1571 5220	44820
A PPG INDUSTRIES INC	1571 5230	1693
A SHERWIN WILLIAMS CO	1571 5230	4556
A S C M CORP	1571 5230	11829
A THIRION GLASS OF LAFAYETTE	1571 5230	48506B
A BOWERS RALPH ELECTRIC SHO	1571 5240	37302
A BOWERS LAWRENCE ELECTRIC	1571 5240	43801A
A CASE J I CO	1571 5250	4315
A YOUNGS PAINT + HARDWARE	1571 5250	9038
A LAFAYETTE TRACTOR INC	1571 5250	10850A
A ACE HARDWARE OF LAFAYETTE	1571 5250	28391C
A FIELOS, ROBERT F CO	1571 5250	52015A
A DILLON HARDWARE	1572 5250	65551
A BAUGH + RESER HARDWARE IN	1571 5250	66382
A DANNER BROTHERS CO INC	1571 5330	4802
A BERGMAN VENDING CO INC	1572 5340	25250
A HOME JUICE CO	1571 5350	12466A
A LAFAYETTE IND BROKERAGE C	1571 5390	24866A
A MONITOR GENERAL STORE + T	1571 5390	44644
A A + P	1570 5410	1513A
A SITES FOOD MARKET	1571 5410	9316
A LINNWOOD MINI-MART	1571 5410	11779
A BUTCHER BOY INC TIE	1571 5410	12549
A MARSH SUPERMARKETS INC	1571 5410	38498
A KLINK FOOD MARKET	1571 5410	45314
A FEASTERS FOOD MARKETS	1571 5410	47432
A WEST SIDE FOOD MARKET	1572 5410	48715A
A RHODES FOOD MARKET	1571 5410	66561
A BAZLEY + JUNEDEALE MARKETS	1571 5420	24853
A MCCONKEY MEAT SUPPLY	1571 5420	59582
A MCCORD CANDIES INC	1571 5440	39997
A DEXTERS DAIRY STORE	1571 5450	19594
A BRICK OVEN BAKERIES	1571 5460	6922
A SPUDNUT COFFEE SHOP	1572 5460	71575B
A GRAY WALTER L INC	1571 5510	537
A LAFAYETTE DODGE SALES INC	1571 5510	29550
A GLENNAR MERCURY LINCOLN I	1571 5510	41646B
A BECKER AUTO SALES INC	1571 5510	47107A
A SEGAL TRUCK SALES + SERVI	1571 5510	48534A
A ROHRMAN, BOB AUTO SALES	1571 5520	10873
A HORNER MOTOR CO INC	1571 5520	24574

A CITY SERVICE MOTOR CORP	1571 5520	31392
A FIRESTONE TIRE + RUBBER C	1571 5530	11242
A GENERAL AUTOMOTIVE SUPPLY	1571 5530	22971
A WALSH AUTOMOTIVE SUPPLY	1571 5530	25479
A LAFAYETTE AUTO SUPPLY CO	1571 5530	30698
A MOTOR PARTS + PAINT CO IN	1571 5530	41185A
A BY PASS TIRE CO INC	1571 5530	47743
A LEVEE AUTOMOTIVE INC	1571 5530	52456A
A TIPPECANOE TIRE SERVICE I	1571 5530	66963
A WALLS AUTO SERVICE	1570 5540	3851B
A DEVARAIS STANDARTO SERVICE	1571 5540	5620A
A CRABTREE CITGO SERVICE	1571 5540	5765A
A CHAFIN + HAROISSONS GARAGE	1570 5540	10450B
A HALL, CHET STANDARD SERVI	1571 5540	11084
A RENNETTS STANDARD SERVICE	1571 5540	11192A
A BEST SERVICE	1570 5540	12218
A WAKE UP	1570 5540	12844
A LOUIES CLARK SUPER 100	1571 5540	13019A
A MILLERS CLARK SUPER 100	1572 5540	13061
A DONS STANDARD SERVICE	1571 5540	14222A
A EBERLES SHELL	1572 5540	14575A
A GOODNIGHTS SHELL SERVICE	1572 5540	14742
A GILBERTS SHELL SERVICE	1571 5540	15942
A WOLFS CLARK	1571 5540	16080E
A C + O GULF SERVICE	1571 5540	18083B
A SHERRYS SUNOCO	1572 5540	18164A
A GRAIGS SINCLAIR SERVICE	1572 5540	18296
A KIMBRELLS GARAGE + SHELL	1571 5540	25555
A DRYANTS CONOCO	1571 5540	27021
A DICKS CLARK SUPER 100	1571 5540	27460
A LAFAYETTE SQUARE TEXACO	1571 5540	27975A
A MURPHY OIL CO	1571 5540	30242
A SOSSES STANDARD SERVICE	1572 5540	30406
A DAVIS STANDARD SERVICE	1572 5540	31667A
A DUINS CITIES SERVICE	1571 5540	47848
A PEAKS FRIENDLY SERVICE	1571 5540	48510
A BURNHAMS SERVICE INC	1572 5540	48714
A SILVERS STANDARD SERVICE	1571 5540	50775
A DONS UNIVERSITY STANDARD	1572 5540	50780A
A PERKINS SHELL SERVICE AND	1570 5540	55343A
A MAR-JEAN SINCLAIR SERVICE	1571 5540	59483
A SPIKER OIL CO INC	1571 5540	61545
A MUINZER STANDARD SERVICE	1571 5540	64131
A SMITTS SHELL SERVICE	1571 5540	66245
A LEILLS TEXACO SERVICE	1571 5540	66361
A GALLOWAYS STANDARD SERVICE	1571 5540	70732
A EWING, J R INC	1571 5590	4824A
A HILLS, MORRIE MOBILE HOME	1571 5590	9299A
A BECKERS YAMAHA CYCLES INC	1571 5590	26600
A THOMAS OF LAFAYETTE INC	1571 5590	28880
A RICHMAN BROTHERS CO	1571 5610	1057
A GEISLERS CLOTHES SHOP INC	1571 5610	25495
A STECKS OF WEST LAFAYETTE	1572 5610	27677
A STECKS OF LAFAYETTE INC	1571 5610	65983
A LAFAYETTE UNIVERSITY SHOP	1572 5610	66440
A MILLER WOHL CO	1571 5620	3223
A HOLLY STORES OF LAFAYETTE	1571 5620	13073
A SMITHS FASHIONS INC	1571 5620	29889
A GLUCKS	1571 5620	40892
A ELSALY INC	1572 5620	55742
A JUVENILE SHOPPE	1571 5640	32334A

A SILVERS	1571 5640	47000
A HALL, ROBERT CLOTHES OF P	1572 5650	21028
A FIVE POINTS BARIANS INC	1571 5650	25008A
A NO 50 HILL BROS S:LF SERV	1571 5660	12310
A MILES MELDISCO C 1 TEAL	1571 5660	25633
A MIRSKEY JOSEPH	1571 5660	47434
A BUTLERS SHOE STOR	1571 5660	68516
A SHOPPERS FAIR SHO DEPT	1572 5660	72917
A RUG SHOP & DECORATING CEN	1571 5710	3506A
A KITTLES OF LAFAYETTE INC	1571 5710	4759A
A HOME FURNITURE CO	1571 5710	8814A
A VILLAGE FURNITURE INC	1571 5710	9124
A CARPET MART OF LAFAYETTE	1571 5710	10624
A SUBURBAN FLOOR COVERING	1571 5710	10671A
A QUAKER MAID KITCHENS	1571 5710	11758A
A LEHNENS	1571 5710	43175
A DOLLY MADISON LEADING	1571 5710	50084A
A BLOOM, J H INC	1571 5710	57378
A KITTLES APPLIANCE + TV	1571 5720	14616
A PFROMMER BROTHERS INC	1571 5720	15927
A BEESONS OF LAFAYETTE INC	1571 5720	20372
A TYRRE GEORGE APPLIANCES	1571 5720	69085A
A HEAST MUSIC CO INC	1571 5730	12599
A KEEN DAVE MUSIC CO INC	1571 5730	17247
A SOUND PRODUCTIONS INC	1572 5730	22688A
A SUBURBAN TV	1571 730	25458
A HAMMOND ORGAN STUDIOS	1571 5730	29808
A T V AND APPLIANCE CLINIC	1571 5730	40146B
A HEN-LAF INC OP: HENRYS O	1571 5810	3461
A BOBO OAKLAND INN	1571 5810	57940
A FIFTH STREET CORNER ISLAND	1571 5810	6017
A COLONIAL SUPPER CLUB + HA	1571 5810	6286
A CHEF LOUIE GATERING	1571 5810	7356C
A HEIDELBERG, ALT	1571 5810	10038
A POTTER, GEORGE	1571 5810	12542
A FRANKLINS CHICKEN DELIGHT	1571 5810	12570
A AMERICAN CLUB TAVERN	1571 5810	14471
A LINCOLN CAFE	1571 5810	15367
A JARRARDS TAVERN	1571 5810	15375B
A A + C TAVERN INC	1571 5810	15380A
A STINEYS TAVERN	1571 5810	16161
A D J K INC	1571 5810	18985
A TRIPLE XXX	1572 5810	19367B
A KENTUCKY FRIED CHICKEN OF	1571 5810	20221
A WEIRS HI WAY GRILL	1571 5810	20433A
A STERRETT'S COZY - DINGE INC	1571 5810	21177
A LUMS RESTAURANT	1572 5810	22115
A EDNAS CAFETERIA	1571 5810	22278A
A COLUMBIA ROOM	1571 5810	22279
A SPAGHETTI BILLS	1571 5810	22334A
A A LOOSE CARLOSE	1571 5810	22575
A IND FRANCHISE CORP	1572 5810	22627
A CANTEN CROP	1571 5810	23180A
A TOPPS SNACKS INDIANA INC	1571 5810	24397
A PIZZA INN	1571 5810	26184
A FACTORY	1571 5810	26320
A ORLANDOS	1572 5810	28092
A MILLERS RESTAURANT	1571 5810	28165
A TIPS TAVERN	1571 5810	28195
A CLARKS HILL RESTAURANT	1570 5810	28994A
A SIR BEEF OF CENTRAL INDIA	1571 5810	30114

A ADAMS CHESTERFIELD	1571 5810	32190
A DONS SPORTSMAN'S BAR INC	1571 5810	35018C
A DOWNTOWNER, THE	1571 5810	36422A
A FIRESIDE OF LAFAYETTE INC	1571 5810	37269B
A CLARKS HILL FISH + STEAK	1570 5810	38358C
A KNICKERBOCKER INC	1571 5810	39125B
A SHAWNEE RESTAURANT + BAR	1571 5810	39427B
A FIVE POINTS TAVERN	1571 5810	42303B
A PURITAN CONEY ISLAND	1571 5810	44522B
A BIG DADDY DRIVE IN	1571 5810	44920B
A NORTHSIDE TAVERN	1571 5810	46995B
A CHECKERBOARD TAVERN	1571 5810	46996
A RIEHLES TAVERN	1571 5810	47463B
A BOB + BILLS TAVERN INC	1571 5810	48507B
A LINNWOOD TAVERN	1571 5810	48513
A CHINESE VILLAGE	1571 5810	49220B
A GAY NINETIES	1571 5810	492290
A PANKEYS RESTAURANT	1571 5810	49503B
A BEN HUR INC	1571 5810	51441A
A FROZEN CUSTARD DRIVE IN	1571 5810	51567A
A PUB	1571 5810	52371A
A SCHUYLER A AND # ROOT BEE	1571 5810	52664
A TIC TOC TAVERN	1571 5810	52931
A GROVERS CAFE	1571 5810	53726
A BRUNOS	1572 5810	55991
A YOUNGS RESTAURANT	1571 5810	562140
A SPOT	1571 5810	58227A
A VAN DAMES DRG + SJDS	1571 5810	58310A
A A R A SERVICES INC	1571 5810	58536A
A BALTIMORE TAPE ROOM	1571 5810	63317B
A IVAS CAFE	1570 5810	64658B
A GILTLERS SOUTHLAND RESTAURANT	1571 5810	67450
A TRAILS	1571 5810	67780
A CLUB FIFTEEN	1571 5810	69705A
A ALS BAR-B-Q	1571 5810	71890A
A HAVEN, ROSE DINER	1570 5810	72559
A HARRISONS RESTAURANT	1571 5810	72628A
A SHAMROCK GRILL INC	1571 5810	72749
A TIPPECANOE FISHERIES	1571 5810	64099
A PHARMACY INC	1571 5910	2349
A PRICED RITE	1571 5910	19598
A WELL-WEAGER-BEST JO	1571 5910	21903A
A STONES DRUGS	1571 5910	29665A
A SCHAAF DRUGS INC	1571 5910	29758A
A OSCO DRUG INC	1571 5910	31953
A ARTH SOUTH FOURTH DRUGS INC	1571 5910	33467A
A DONAHUE DRUGS	1571 5910	38729
A FORD HOPKINS DRUG AGENCY	1571 5910	39208
A SCHILLING DRUG CO INC	1571 5910	45313
A VELLINGER PHARMACY	1571 5910	53319
A ARTH MAIN STREET DRUGS INC	1571 5910	61534A
A LISCHKE, J B DRUG CO INC	1571 5910	62994
A BEAMAN PHARMACY	1571 5910	66704
A UNION LIQUOR STORE INC	1571 5920	13434A
A FAUSTICH, JOHN L + SON LI	1571 5920	20857
A BAR BARRY LIQUORS INC	1572 5920	27102
A DEETS, CHARLES R JR	1571 5920	59120
A LAFAYETTE MOTOR PARTS CO	1572 5930	26098A
A REISNER H G BOOKSTORE	1572 5940	11465
A K MART ENTERPRISES OF IND	1571 5950	270
A SPORTSMAN INC	1571 5950	46341

A ANDERSONS FERTILIZER SERV	1570 5960	17707
A MONSANTO CO	1570 5960	63276
A JEWELRY SERVICE LAFAYETTE	1571 5970	439
A ARNEL JEWELERS INC	1570 5970	26514
A STUART JEWELRY CO INC	1571 5970	45322
A LODGES	1571 5970	47444A
A CHUPP JEWELRY CO INC	1571 5970	52959
A PAGE JEWELRY CO DIV	1571 5970	72112
A THERMOGAS CO OF LAFAYETTE	1571 5980	69941
A BOWER TYPEWRITER CO	1571 5990	16200
A MCKINNEYS FLOWERS	1571 5990	20234
A PLANTENGA PET PALACE	1571 5990	20270
A HINEAS CAMERA SHOP	1571 5990	20592
A LAFAYETTE OPTICAL CO	1571 5990	25831B
A VISION CENTER	1571 5990	27533
A HURTS PET SHOP	1571 5990	28298
A INDIANAPOLIS STAR + NEWS	1571 5990	45321A
A NATIONAL SALES CO INC	1571 5990	461090
A BERRYS CAMERA SHOP INC	1571 5990	46330A
A ROTH FLOWERS	1571 5990	48713A
A WRIGHT FLOWERS	1572 5990	49299
A SMITH OFFICE EQUIPMENT CO	1571 5990	61853A
A CENTRAL CIGAR STORE	1571 5990	67839
A LAFAYETTE SAVINGS BANK	1571 6030	2704
A ASSOCIATION OF LAFAYETTE	1571 6120	72803
A HOUSEHOLD FINANCE CORP	1571 6140	4105
A COMMUNITY CREDIT CORP OF	1571 6140	5007
A MOTOR FINANCE CORP	1571 6140	6403
A COMMERCIAL CREDIT PLAN IN	1571 6140	12090
A LIBERTY LOAN CORPORATION	1571 6140	15798
A G M A C	1572 6140	17625
A ASSOCIATES FINANCIAL SERV	1571 6140	25706A
A GENERAL FINANCE LOAN CO	1571 6140	43241
A ECONOMY FINANCE CORP OF L	1571 6140	61203
A FINANCIAL SERVICES INC	1571 6280	71533A
A COMMONWEALTH LIFE INS	1571 6310	9001
A STATE FARM LIFE INS CO	1571 6310	12622
A HEATH-SHOOK INSURANCE INC	1571 6410	11105
A UNION LABOR UNDERWRITERS	1571 6410	19099
A MITCHELL AGENCY INC	1571 6410	43336
A MAYERSTEIN BURNEL CO INC	1571 6410	44220
A BYNDY MCNEAR INSURANCE AG	1571 6410	44646
A ADAMS INSURANCE AGENCY IN	1571 6410	47758
A CLEMENTS INS CLAIMS SERV	1571 6410	51451
A LAFAYETTE INS ASSO INC	1571 6410	71173A
A RIVERVIEW APARTMENTS	1571 6510	14781
A HAPPY HOLLOW CORP	1572 6510	15808
A WARREN PROPERTIES + WARRE	1571 6510	23600
A A AND J REALTY CORP	1571 6530	2127
A TOWN AND COUNTRY REAL EST	1571 6530	8907
A OVERMAN MICHAEL T ET AL	1572 6530	10115
A KEY REALTY CORP OF LAFAYE	1571 6530	27032
A COLLINGS FARM MNT SERVICE	1571 6530	44823
A TIPTONS REAL ESTATE AGENC	1572 6530	62145A
A SHARP-MITCHELL ABSTRACT C	1571 6540	6595A
A STALLARD + SCHU+	1571 6540	44291A
A SPRING VALE CEMETERY	1571 6550	3451
A TIPPECANOE MEMORY GARDENS	1572 6550	33138
A PRICE + PRICE INC	1571 6560	15705
A GLENWOOD BUILDERS INC	1571 6560	69472
A WEST LAFAYETTE FREVELOOGE	1572 7010	7167

A ROSE HAVEN MOTOR HOTEL	1570 7010	24774A
A UNIVERSITY INNS INC	1571 7010	27943
A DEVON PLAZA INC	1571 7010	36742A
A CAPITOL HOTEL	1571 7010	51439
A BAILLA HOTEL CORP	1571 7010	65386
A ALLIED RUG + FURNITURE CL	1571 7210	13826
A UNIVERSITY ONE HOUR CLEAN	1572 7210	16465A
A VOGUE CLEANERS OF LAFAYET	1571 7210	27979A
A MODERN CLEANERS + LAUNDRY	1571 7210	38913
A HIGHLANDER CENTER COIN OP	1571 7210	40577
A EAST SIDE CLEANERS	1571 7210	41977A
A VENDOR MAT ENTERPRISES IN	1572 7210	63253
A LAFAYETTE COVERL. SUPPLY	1571 7210	67002
A DAVIS CLEANERS	1571 7210	67908
A VILLAGE LAUNDRY C/O HOWAR	1571 7210	69850
A MATTHEWS SPEED WASH	1571 7210	70666
A CAMERA CRAFTSMEN	1571 7220	11745
A BEALLS COML PHOTO	1571 7220	46541
A FASHION COIFFEURS OF LAFAY	1571 7230	62200
A DEBONAIR BEAUTY SALON, TH	1571 7230	7095
A LAFAYETTE BEAUTY ACADEMY	1571 7230	17162
A COIFFURES ORIGINAL	1572 7230	19212
A LOEBS BEAUTY SALON	1571 7230	20774
A DEVAULTS BEAUTY SALON	1571 7230	23554
A HAIR IMAGE BEAUTY SALON I	1571 7230	27781
A CINDERELLA BEAUTY SALON	1571 7230	31195
A SKYLINE BEAUTY SALON + BO	1571 7230	31855
A IDEAL BEAUTY + BARBER SHO	1571 7230	45422A
A BEAUTY WALK INC THE	1571 7230	61766A
A CHEZ MARIE BEAUTY SALON	1571 7230	71294
A THREE SONS BARBER SHOP AN	1571 7230	72920A
A HANDAS CUT + CURL +	1572 7240	65878A
A SOLLER BAKER CO INC	1571 7260	44821
A HIPPENSTEEL FUNERAL HOME	1571 7260	53681
A POWERS ELAINE FIGURE SALO	1571 7290	29469
A CRAFT DISPLAYS INC	1570 7310	23278
A MACDONALD, HARRISON C + S	1571 7310	71404
A LAFAYETTE ACCOUNTS SERVIC	1571 7320	5309A
A CREDIT BUREAU OF LAFAYETT	1571 7320	25168A
A LAFAYETTE MAILING SERVICE	1571 7330	35020
A CLEAN MORE CO	1571 7340	18760
A EDER BAILIE CORP	1571 7340	25946
A INDEPENDENT INDUSTRIES IN	1571 7340	28080A
A VAUGHNS CLEANING SERVICE	1572 7340	32933
A RELIABLE EXTERMINATORS IN	1572 7340	43235
A COCHNOVERS CHEMICAL SERV	1571 7340	49509
A JOHNSONS JANITOR SERVICE	1571 7340	49922
A WRIGHT, HOWARD L JANITOR	1571 7340	64812
A SERVICEMASTER OF LAFAYETT	1571 7340	67203A
A PERSONNEL SERVICE INC OF	1571 7360	12931
A MANPOWER INC CO INC	1571 7390	21996
A LAFAYETTE TELEPHONE ANSW	1571 7390	24083
A TEKNA TRONIC APPLICATIONS	1571 7390	34467
A FOSTER FILM SERVICE	1572 7390	38114
A MIDWEST RENTALS INC	1571 7390	56133
A SHUMAN CHEMICAL LABORATOR	1572 7390	60702
A RAYNE WATER CONDITIONING	1571 7390	71352B
A HERTZ RENT A CAR	1572 7510	7870B
A AVIS RENT A CAR	1571 7510	16726A
A BUDGET RENT A CAR	1571 7510	33468A
A BY PASS AUTO REPAIR	1571 7530	89808

A DUNCAN-WILLIAMS BODY SHOP	1571 7530	14451
A KING OF LAFAYETTE	1571 7530	14646B
A AAMCO TRANSMISSIONS	1571 7530	20293
A VANS BODY SHOP	1571 7530	46597
A GLENN AUTO ELECTRIC	1571 7530	46603A
A HOFFMAN'S GARAGE + BODY SH	1571 7530	48546A
A DEMERLY BODY SHOP	1571 7530	66147A
A CHARLYN CORP	1571 7540	28627
A WEST SIDE CAR WASH INC	1572 7540	58470B
A TIPPECANOE FURN AND UPHOL	1571 7640	28132
A MULHAUPTS	1571 7690	24717A
A PEOPLES WELDING AND MACH	1572 7690	47103
A UNITED ARTISTS THEATRE CI	1570 7830	22723A
A EAST LAFAYETTE THEATRE IN	1571 7830	33109
A ARTHUR MURRAY STUDIO OF	1571 7910	55804B
A ALKIRE JAMES F B&D	1572 7920	32011
A ROSE LANES INC	1571 7930	23160B
A STAR LANES CORP	1571 7930	35023
A ELSTON LANES INC	1571 7930	66390
A PAR VIEW GOLF COURSE	1571 7940	26658
A MOUNT WILLIAM H I D	1571 8010	506
A MATHER ROBERT L D	1571 8010	11642
A HASS THOMAS MD + JEAN HUN	1572 8010	15080A
A UNDERWOOD, GEORGE M + BRI	1571 8010	18623
A ADE CH + C B LANDIS DR	1571 8010	19216
A PICKERILL + WEIDA MDS	1571 8010	20240
A VANKIRK DR JOHN R	1572 8010	20271
A LAFAYETTE ORTHOPEDIC CLIN	1571 8010	59487A
A CROXTON, WILLIAM JDS	1571 8020	11864
A SABEL CHARLES J DJS	1572 8020	19131
A RISK, HAROLD J DDS DENTAL	1571 8020	25204C
A MODLIN ROBERT N DJS	1572 8020	33949
A BAYLEY JAMES WILLIAM ODS	1571 8020	33992
A HARVEY DALE H	1571 8020	47439
A MCKENNA, H F, R T OLIVER	1571 8020	57721B
A LITTLE BR WALTER J	1571 8030	4254A
A WARE, HOWARD R J J	1571 8030	66049
A PROFESSIONAL LABORATORIES	1571 8070	16116
A TONY OPTICAL SERVICE	1571 8090	12564
A BONNET DR H E + DR L H GO	1571 8090	19519
A VAUGHN + VAUGHAN	1571 8110	6520
A BALL EGGLESTON + JUMBLEBU	1571 8110	9227B
A STUART BRANIGAN RICKS + S	1571 8110	42356A
A LOCAL UNIONS OPER ENGIN T	1571 8240	17470
A LAFAYETTE DOWNTOWN ASSOCI	1571 8610	19873
A AMERICAN YORKSHIRE CLUB I	1571 8610	24788
A GREATER LAFAYETTE CHAMBER	1571 8610	45643
A FARM CLINIC	1572 8610	47462A
A PLUMBERS + STEAMFITTERS L	1571 8630	5823
A RETAIL CLERKS INT. ASSN A	1571 8630	5914
A UNITED BROTHER CARPENTERS	1571 8630	12443
A INT BRO TEAM CHAUF STABLE	1571 8630	12630
A SHEET METAL WORKERS LOCAL	1571 8630	12637
A UNITED BROTHO OF CARPENTER	1571 8630	19928
A LABORERS INTL UNION OF N	1571 8630	21384
A ALLIED IND WKR UNION LOC	1571 8630	50410
A FRATERNAL ORDER OF EAGLES	1571 8640	12040
A LOYAL ORDER OF MOOSE LAF	1571 8640	24914
A PURDUE ALUMNI ASSOCIATION	1572 8640	38144
A LAFAYETTE AUTOMOBILE CLUB	1571 8690	45325
A BRENNER, E + ARCHITECT	1571 8910	9172

A VESTER + ASSOCIATES	1571 8910	15567A
A CALLAHAN MAURICE : + ASSO	1571 9910	27307
A KLIME + STEWART + ASSOCIA	1571 9910	46993B
A POTASH INSTITUTE OF NORTH	1571 8920	15321
A MELLON, JACK D C P A	1571 9930	14961
A GIRARDOT STANLEY :	1572 9930	30623
A HUTH RONALD T + C)	1571 9930	44365A
A PAINTER LAWRENCE :	1571 9930	52016A
A FUNKHOUSER HENRY J	1571 9930	59232B
A SMITH DONALD R + CO	1571 9930	62632C
A TENN VALLEY AUT4	1571 9149	301001
A INTERNAL REVENUE SERVICE	1571 3190	104009
A SOC SEC DIST LAFAYETTE	1571 9190	136010
A WEATHER BUREAU LAFAYETTE	1571 9190	161005
A TIPPECANOE ASC LAFAYETTE	1571 9190	262001
A ECONOMIC RESEARCH SERVICE	1571 9190	314001
A OFFICE OF INSPECTOR GENER	1571 190	316008
A WAYNE HOOSIER	1571 9190	317005

V F A B ASSOCIATES INC	1571 1510	21606
V DRAKE CONSTRUCTION CO	1572 1510	22165
V QUALITY HOMES OF LAFAYETTE	1571 1510	25733
V BOES CONSTRUCTION CO	1571 1510	59191
V THAYER R D CO	1571 1790	6977
V UNION WRECKING CO INC	1571 1790	62345
V DICKS PROCESSING PLANT	1570 2011	20832
V ROYAL CROWN BOTTLING CO I	1571 2086	47962A
V SHAMBAUGH TRUCKING CO	1571 4210	55539
V BEST-BILL CASH AND CARRY	1571 5210	67411
V PIPES APPLIANCES INC	1571 730	47436B
V FIFTY TWO INN SERVICE CEN	1572 7030	23472
V TECHNOMETRICS INC	1572 7390	25731A
V LAFAYETTE AUTO LAUNDRY IN	1571 7540	71971A
V STAGE DECORATION + SUPPLI	1571 7920	24138
V HESSLERS BOHLMORE INC	1571 7930	29887B
V TIPPECANOE CO PJSF 1154 V	1571 3640	44647
V CLARK DIETZ + ASSOCIATES-	1571 9910	12108

***** THIS IS THE END OF TIPPECANOE FIRM LIST *****

APPENDIX D

Letter from Executive Director of Area Plan Commission
for Employee Survey and Return Post Card

Letter from Executive Director of
Area Plan Commission for Employee
Survey and Return Post Card

AREA PLAN COMMISSION

HOUSE - LAFAYETTE, INDIANA 47901-742-8827

The Joint Highway Research Project in the School of Civil Engineering at Purdue, is doing research on alternative methods of obtaining local travel information for use in the transportation planning process. This travel information, concerning the number and types of trips made by persons in an area, is normally collected by means of a home-interview origin-destination study. The research includes a study of the effectiveness of three less expensive and time consuming methods of obtaining travel information to replace the home interview process in urban areas the size of Lafayette-West Lafayette.

Briefly, the three methods are: 1) trip information available from the Census; 2) information about place of residence and place of employment available from the City Directory; and 3) information on employees' place of residence obtained from employers. It is with this last method that your assistance is needed. With your approval, a staff member of the research would obtain a list of the addresses of all your employees at one time in 1970. If 1970 data is not available more recent data will do. A minimum of additional information, such as time of work shifts and mode of travel used, would be helpful if available.

The information will be grouped by geographical areas and will be used to generate statistical tables. No reference to individual addresses or firm names will be made in any report except to acknowledge cooperation. The data will also not be used for any other purpose and all information will be treated confidentially.

The Tippecanoe Area Plan Commission is currently completing the transportation study of Greater Lafayette. The results of this research for which we are seeking your help are important to Lafayette because any of the three alternative methods, if feasible, could save considerable time and money when the transportation study is updated every 3-5 years for planning purposes. Your cooperation as a consequence will be most helpful and valuable to the community in addition to being appreciated by the Area Plan Commission and Purdue University.

Mr. W. K. Law of Purdue University or Mr. B. J. O'Conner of the Area Plan Staff will contact the individual you designate on the attached card to arrange for acquiring the data. Please return the enclosed postage paid postcard (or call Mr. Law at 49-44987) so that arrangements can be made.

Thank you for your cooperation.

Sincerely yours,

Joseph A. Fletcher
Executive Director

JAF:ms

cc: W. K. Law
B. J. O'Conner

FIRM NAME: _____

ADDRESS: _____

PERSON TO BE CONTACTED: _____

PHONE NO: _____

DATE/TIME AVAILABLE (Please suggest one or two dates and times for an initial meeting)

(1) _____

(2) _____

(Mr. Law or Mr. O'Conner will contact you to confirm the meeting time and place; if you have any question, please call Mr. Law at 49-44987).

APPENDIX E
Program PTT Listing

Appendix E. Program PTT Listing

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PROGRAM PTT(INPUT,OUTPUT,TAPE1=INPUT,TAPE2)
C***** PROGRAM TO GET, PRINT AND TAPED DIRECTORY TRIP TABLES
DIMENSION IT(153,153)
1 FORMAT(6X,I3,3X,I3)
2 FORMAT(///# ***** TOTAL VALID CASES READ = #15# ***** )
3 FORMAT(10X,#TABLE 3 DIR. TRIPS FROM ZONE#,
X IR,# TO ALL OTHER ZONES (TOTAL=#15#)#)
4 FORMAT(4X,I3,3X,I0I7)
5 FORMAT(10X,3A10,I5,2A10)
6 FORMAT(# ZONE 00 01 02 03 04 05 0
X6 07 08 09#/)
7 FORMAT(//)
8 FORMAT(8A10)
9 FORMAT(///# ***** TOTAL EXPANDED TRIPS = #18# ***** #)
11 FORMAT(1H1)
IC=23
C***** CLEAR ARRAY
DO 100 I=1,153
DO 100 J=1,153
100 IT(I,J)=0
C***** FILL CELLS WITH EXPANDED FREQUENCIES
K=0
10 READ(1,1) I1,I2
IF(EOF,1) 30,20
20 CONTINUE
IA=I1+1
IA=I2+1
IF(I2.EQ.0.00,I2.GT.152)GO TO 25
IF(I1.EQ.0.00,I1.GT.152)GO TO 26
IT(IA,IR)=IT(IA,IR)+IC
K=K+1
GO TO 10
25 IT(IA,1)=IT(IA,1)+IC
GO TO 10
26 IT(1,IR)=IT(1,IR)+IC
GO TO 10
30 PRINT 2,K
C***** GET SUMS AND PUT TABLES ON TAPE2
ITOTAL=0
DO 200 I=1,153
IF(I.GT.33.AND.I.LT.47)GO TO 200
IF(I.EQ.70)GO TO 200
IF(I.GT.85.AND.I.LT.113)GO TO 200
ISUM=0
DO 201 JJ=1,153
201 ISUM=ISUM+IT(I,J)
ITOTAL=ITOTAL+ISUM
II=I-1
L=0
M=1
WRITE(2,3) II,ISUM
40 N=M+9
IF(L.EQ.90.00,I.LT.100)GO TO 45
WRITE(2,4) L,(IT(I,J),J=M,N)
45 M=M+10
L=L+10
IF(L.LT.150)GO TO 40
WRITE(2,4) L,(IT(I,J),J=151,153)
200 CONTINUE
PRINT 9,ITOTAL
REWIND 2
END

```

APPENDIX F

Census Tract-Block to Traffic Zone Equivalency Table

[illegible]

PAGE 2

3920 STATE 10

TRAFFIC ZONES FOR 393A

COUNTY	UAC	ZONE	UAC	ZONE	UAC	ZONE	UAC	ZONE	UAC	ZONE	UAC	ZONE	SERIAL

157	32029	401	32020	402	32031	403							000173

Tip:

TRAFFIC ZONES FOR 3M99 9920 STATE 18

PAGE 3

COUNTY	ZIP	ZONE	ZIP	ZONE	ZIP	ZONE	ZIP	ZONE	ZIP	ZONE	ZIP	ZONE	SERIAL
137	47900	301	47901	302	47902	303	47903	304	47904	305	47905	306	000141
137	47906	307	47907	308	47908	309	47909	310	47910	311	47911	312	000138
137	47920	313	47921	314	47922	315	47923	316	47924	317	47925	318	000164
137	47930	319	47931	320	47932	321	47933	322	47934	323	47935	324	000174
137	47981	325	47982	326	47983	327	47984	328	47985	329	47986	330	000182

TRAFFIC ZONES FOR SHERA 3020 STATE 18

PAGE 4

COUNTY	TRACT	EO	* ZONE *	ED	* ZONE *	EO	* ZONE *	ED	* ZONE *	ED	* ZONE *	ED	* ZONE *	EQ	* ZONE *	EQ	* ZONE *	SERIAL
137	0101	0001	*	201	* 0802 *	.202	* 0003 *	.203	* 0004 *	.204	*	*	*	*	*	*	*	000190
137	0102	0005	*	205	* 0035 *	.206	* 0034 *	.207	* 0035 *	.208	* 0035 *	.209	*	*	*	*	*	000208
137	0106	0054	*	210	* 0056 *	.211	* 0057 *	.212	* 0058 *	.213	* 0059 *	.214	*	*	*	*	*	000216
137	0107	0064	*	215	* 0065 *	.216	*	*	*	*	*	*	*	*	*	*	*	000224
137	0108	0137	*	217	* 01378 *	.218	*	*	*	*	*	*	*	*	*	*	*	000232
137	0109	0137	*	219	* 0138 *	.220	* 0139 *	.221	* 0140 *	.222	*	*	*	*	*	*	*	000240
137	0110	0161	*	223	* 0162 *	.224	* 0163 *	.225	* 0164 *	.226	* 0165 *	.227	*	*	*	*	*	000257

TRAFFIC ZONES FOR 3M5A 3920 STATE 19													PAGE 6	
COUNTY	TRAF	BLCK	ZONE	BLCK	ZONE	BLCK	ZONE	BLCK	ZONE	BLCK	ZONE	SERIAL		
137	0004	101	020	102	020	103	019	104	019	105	019	106	013	000539
137	0004	107	013	108	013	109	013	110	013	111	013	112	013	000547
137	0004	114	013	114	013	115	013	116	013	117	005	118	005	000534
137	0004	119	013	120	013	121	013	201	013	203	010	204	010	000582
137	0004	206	013	207	013	208	013	209	013	210	005	211	004	000570
137	0004	212	004	213	004	214	004	215	004	216	004	217	004	000588
137	0004	218	004	301	004	302	004	304	004	305	004	306	004	000586
137	0004	307	004	308	004	309	003	310	005	311	005	312	005	000604
137	0004	313	005	314	005	315	005	316	005	317	005	318	005	000612
137	0004	319	005	320	005	321	005	322	005	323	005	324	005	000620
137	0004	999	(175)											000638
137	0005	101	004	102	004	103	004	104	003	105	003	106	003	000646
137	0005	108	003	113	003	114	003	118	003	119	003	120	003	000633
137	0005	121	003	122	004	123	004	124	004	125	003	126	003	000651
137	0005	127	003	999	(176)									000679
137	0006	101	002	102	002	103	002	105	002	106	002	107	002	000687
137	0006	103	002	109	002	111	002	112	002	114	001	209	001	000693
137	0006	212	001	999	(177)									000703
137	0007	101	010	102	010	103	010	104	010	106	010	107	007	000711
137	0007	108	007	109	007	110	007	111	007	112	010	113	010	000729
137	0007	114	007	115	007	116	007	118	008	120	008	121	008	000737
137	0007	201	008	202	007	203	007	204	008	205	008	206	007	000745
137	0007	207	007	208	007	209	002	210	007	211	007	212	007	000752
137	0007	213	007	214	007	215	007	216	007	217	002	218	002	000760
137	0007	220	002	221	007	302	002	303	002	304	002	305	004	000778
137	0007	306	004	307	004	308	004	310	004	311	004	312	004	000786
137	0007	313	004	314	004	315	004	316	004	317	004	318	004	000794

TRAFFIC ZONES FOR 3M5A													PAGE	
COUNTY	TRACT	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	SERIAL
157	0007	998	179	*	*	*	*	*	*	*	*	*	*	7
157	0008	101	012	102	012	103	012	104	012	105	012	106	011	000802
157	0008	107	011	103	011	109	011	110	011	111	011	112	011	000810
157	0008	113	012	115	012	116	011	117	011	119	011	120	011	000828
157	0008	121	011	122	011	201	008	202	008	203	008	204	008	000836
157	0008	203	011	206	011	209	011	209	009	210	009	211	009	000851
157	0008	212	009	213	009	214	009	215	009	216	009	217	009	000869
157	0008	218	009	220	012	223	012	301	009	302	009	303	009	000877
157	0008	304	009	305	009	306	009	307	009	306	009	309	009	000885
157	0008	310	009	311	009	312	009	313	032	314	031	315	031	000893
157	0008	316	031	317	031	318	031	319	031	320	031	321	031	000901
157	0008	322	031	323	031	324	032	402	038	403	031	404	031	000819
157	0008	403	031	404	031	407	031	408	037	409	037	410	037	000927
157	0008	411	037	412	037	413	037	414	037	417	037	418	037	000935
157	0008	419	037	420	037	421	037	422	037	423	037	423	037	000943
157	0008	999	179	*	*	*	*	*	*	*	*	*	*	000950
157	0009	101	001	107	046	108	046	109	001	111	047	112	046	000968
157	0009	114	046	116	046	117	046	118	046	119	046	122	046	000976
157	0009	123	046	124	046	125	046	126	046	127	046	128	046	000984
157	0009	130	033	202	034	204	037	205	047	206	034	207	033	000992
157	0009	208	033	209	033	210	046	211	046	213	033	214	033	001008
157	0007	213	033	217	033	218	033	219	033	220	033	221	034	001016
157	0009	222	036	223	034	224	034	225	034	226	034	227	034	001024
157	0009	228	034	229	034	230	034	901	033	902	037	903	072	001032
157	0009	904	072	901	072	906	039	908	046	909	046	998	180	001040
157	0010	101	002	102	002	103	002	104	047	105	046	106	047	001057
157	0010	107	001	110	001	111	001	112	001	113	047	114	047	001063

		TRAFFIC IONES FOR 1970 STATE 18										PAGE 8	
COUNTY	TRACT	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	SERIAL
137	0010	115	067	116	067	117	067	118	068	119	068	120	048
137	0010	201	048	202	048	203	035	204	055	205	054	206	047
137	0010	207	047	208	047	209	054	210	054	211	054	212	035
137	0010	213	055	214	054	215	034	216	054	217	054	218	054
137	0010	219	060	220	060	221	060	222	060	223	060	224	060
137	0010	999	181	0	0	0	0	0	0	0	0	0	001123
137	0011	101	000	102	000	103	008	104	049	105	049	106	049
137	0011	107	049	108	049	109	049	110	048	111	048	112	048
137	0011	113	049	114	048	115	049	116	048	117	048	118	049
137	0011	119	049	120	049	121	059	122	049	123	049	124	049
137	0011	125	049	201	055	202	056	203	056	204	056	205	056
137	0011	206	056	207	056	208	056	209	056	210	056	211	056
137	0011	212	056	213	056	214	056	215	056	216	056	217	056
137	0011	218	056	219	056	220	056	221	056	222	056	223	056
137	0011	224	055	225	052	226	061	227	061	301	055	302	055
137	0011	304	055	305	055	306	055	308	055	309	055	310	055
137	0011	311	055	312	055	313	055	314	055	315	055	316	055
137	0011	317	055	318	055	319	055	320	055	321	055	322	055
137	0011	323	055	324	055	325	055	326	055	327	055	328	055
137	0012	101	011	102	009	103	009	104	091	105	051	110	051
137	0012	111	051	112	051	113	051	114	050	115	050	116	050
137	0012	117	050	118	050	119	050	120	051	121	051	122	051
137	0012	204	037	205	037	206	037	207	056	208	057	209	057
137	0012	210	057	211	057	212	057	213	056	214	056	215	056
137	0012	217	056	301	056	302	050	303	050	304	050	305	050
137	0012	306	050	307	050	308	050	309	050	310	050	311	050
137	0012	312	050	313	049	314	049	315	049	316	050	317	050

TRAFFIC ZONES FOR 3-1-50													18	PAGE 9	
COUNTY	TRACT	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	SERIAL	
137	0012	218	050	319	050	320	050	321	050	322	049	323	008	001347	
137	0012	324	008	325	008	401	008	402	008	403	008	404	008	001354	
137	0012	402	008	406	008	407	008	408	011	411	008	413	008	001362	
137	0012	414	008	415	008	416	008	417	008	418	008	420	008	001370	
137	0012	999	185											001388	
137	0013	102	067	103	064	104	064	105	064	106	064	107	064	001396	
137	0013	108	064	109	064	110	064	111	064	112	064	113	064	001404	
137	0013	114	064	115	064	116	064	117	064	118	064	119	065	001412	
137	0013	201	061	202	061	203	061	204	061	205	061	206	061	001420	
137	0013	207	061	208	061	209	061	210	061	211	061	212	061	001438	
137	0013	213	061	214	061	215	061	216	061	217	061	218	061	001446	
137	0013	219	061	220	061	221	061	222	061	223	061	224	061	001453	
137	0014	101	068	102	068	103	068	104	068	105	068	106	068	001461	
137	0014	107	068	108	068	109	068	110	068	111	068	112	068	001479	
137	0014	113	068	114	068	115	068	116	068	117	068	118	068	001487	
137	0014	119	068	120	068	121	068	122	068	123	068	124	068	001495	
137	0014	125	068	126	060	127	068	128	068	129	068	130	075	001503	
137	0014	905	075	906	075	910	077	911	077	912	077	913	077	001511	
137	0014	999	185											001529	
137	0031	101	125	102	125	103	132	104	132	105	132	106	132	001537	
137	0031	107	132	108	132	109	132	110	132	111	132	112	132	001545	
137	0031	113	132	114	132	115	132	116	132	117	132	118	132	001552	
137	0031	905	142	906	142	907	132	908	125	909	125	910	125	001560	
137	0031	999	186											001578	
137	0032	101	117	102	117	103	117	104	117	105	117	106	117	001586	
137	0032	107	117	108	123	109	123	110	123	111	123	112	123	001594	
137	0032	114	123	115	123	116	123	117	123	118	123	119	117	001602	

		TRAFFIC ZONES FOR 3MSA										3920 STATE		16		PAGE		10	
COUNTY	TRACT	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	SERIAL			
157	0052	120	117	121	116	122	116	123	116	201	116	202	121	202	121	001610			
157	0052	203	116	204	116	205	121	206	121	207	121	208	121	209	121	001626			
157	0052	209	121	210	122	211	122	212	122	213	122	214	122	215	122	001636			
157	0052	219	122	216	130	217	130	301	130	302	122	303	122	304	122	001644			
157	0052	205	122	205	122	206	130	307	130	308	130	309	122	310	122	001651			
157	0052	310	122	311	123	312	123	313	130	314	123	315	123	316	123	001669			
157	0052	316	123	317	123	318	131	319	131	399	187					001677			
157	0053	101	113	103	113	104	113	105	113	106	113	107	113	108	113	001685			
157	0053	109	116	110	116	111	116	112	116	113	116	114	116	115	116	001693			
157	0053	113	116	116	116	117	115	118	115	119	115	120	115	121	115	001701			
157	0053	121	116	122	116	201	121	202	121	203	121	204	115	205	115	001719			
157	0053	203	115	204	115	207	115	208	115	209	115	210	115	211	115	001727			
157	0053	211	121	212	121	213	121	214	121	215	121	216	121	217	121	001735			
157	0053	217	121	218	121	219	121	220	121	221	121	222	121	223	121	001743			
157	0053	224	121	999	188											001750			
157	0054	103	114	104	114	109	113	110	115	111	115	112	115	113	115	001768			
157	0054	113	115	114	115	115	115	116	115	118	114	119	114	120	114	001776			
157	0054	121	116	122	114	123	114	201	114	202	114	203	114	204	114	001784			
157	0054	205	119	206	119	209	115	210	114	211	115	212	113	213	113	001792			
157	0054	213	115	214	115	215	115	216	115	217	115	218	115	219	115	001800			
157	0054	221	115	222	115	223	115	303	127	304	127	305	127	306	127	001816			
157	0054	307	127	308	127	309	127	310	127	312	128	313	127	314	127	001826			
157	0054	314	127	315	128	316	128	317	128	318	128	319	129	320	129	001834			
157	0054	320	128	321	128	999	189									001842			
157	0055	102	112	104	114	105	114	106	114	107	114	108	114	109	114	001850			
157	0055	109	114	110	118	111	118	112	118	113	118	114	118	115	118	001857			
157	0055	121	118	122	114	123	114	124	114	125	114	126	118	127	118	001865			

		TRAFFIC ZONES FOR 3434 3020 STATE 18																PAGE 11	
COUNTY	TRACT	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	BLOCK	ZONE	SERIAL	
137	0025	999	190	*	*	*	*	*	*	*	*	*	*	*	*	*	*	901883	
137	0102	101	130	*	102	130	*	103	130	*	104	130	*	105	130	*	106	130	001891
137	0102	107	130	*	108	130	*	109	130	*	110	130	*	111	130	*	112	130	001909
137	0102	903	149	*	906	149	*	907	149	*	909	149	*	910	149	*	911	149	001917
137	0103	101	133	*	102	133	*	106	129	*	107	129	*	111	129	*	114	133	001923
137	0103	999	192	*	*	*	*	*	*	*	*	*	*	*	*	*	*	001933	
137	0104	108	134	*	999	193	*	*	*	*	*	*	*	*	*	*	*	001941	
137	0105	104	133	*	105	133	*	106	133	*	107	133	*	108	133	*	109	133	001958
137	0109	999	194	*	*	*	*	*	*	*	*	*	*	*	*	*	*	001966	
137	0106	901	136	*	903	136	*	904	137	*	999	193	*	*	*	*	*	001974	
137	0107	101	074	*	102	074	*	103	074	*	104	074	*	105	074	*	106	074	001982
137	0107	904	074	*	906	073	*	907	073	*	908	073	*	909	081	*	910	081	001990
137	0107	911	073	*	912	073	*	913	073	*	914	073	*	915	073	*	916	073	002006
137	0107	917	073	*	918	073	*	919	074	*	920	074	*	921	073	*	922	073	002014
137	0107	923	073	*	924	073	*	925	073	*	926	073	*	927	073	*	928	073	002022
137	0107	929	073	*	931	073	*	999	196	*	*	*	*	*	*	*	*	002030	
137	0108	101	023	*	102	028	*	106	029	*	107	029	*	108	029	*	109	029	002048
137	0108	901	029	*	902	038	*	903	076	*	904	076	*	905	070	*	906	070	002053
137	0108	907	070	*	909	032	*	910	029	*	911	029	*	912	029	*	913	029	002063
137	0108	914	029	*	915	031	*	916	027	*	917	028	*	918	026	*	920	026	002071
137	0108	921	026	*	922	026	*	923	023	*	999	197	*	*	*	*	*	002089	

APPENDIX G
Program TRACT Listing

Appendix G. Program TRACT Listing

```

PROGRAM TRACT(INPUT,OUTPUT,TAPE1,TAPE2)
DIMENSION C(26),T(133),IC(26)
C***** PROGRAM TO COMBINE TRIPS FO CENSUS TRACT LEVEL
ITOTAL=0
DO 100 I=1,112
  READ(1,1)IZ,IPF
  1 FORMAT(40X,15,29X,15)
  READ(1,2)(T(I),I=1,133)
  2 FORMAT(10X,10F7,0)
  C(1)=T(19)+T(23)+T(24)+.75*T(25)+.25*T(22)
  C(2)=T(7)+T(20)+T(21)+.33*T(6)+.25*T(25)+.25*T(22)
  C(3)=T(15)+T(16)+T(17)+.50*T(22)+.20*T(14)+.25*T(11)
  C(4)=T(6)+.80*T(14)+.33*T(5)
  C(5)=T(4)+.33*T(5)
  C(6)=T(2)
  C(7)=T(8)+.33*T(5)+.33*T(3)+.33*T(11)
  C(8)=T(12)+T(10)+T(67)+.67*T(11)+.50*T(13)+.67*T(52)
  X+.50*T(58)
  C(9)=T(47)+T(54)+T(60)+.50*T(55)+.33*T(48)
  C(10)=T(61)+.67*T(48)+.50*T(49)+.50*T(55)+.33*T(56)
  C(11)=T(50)+.50*T(49)+.67*T(56)+.67*T(57)+.50*T(63)
  C(12)=T(9)+T(51)+T(58)+.33*T(52)+.33*T(57)+.50*T(63)
  X+.50*T(66)
  C(13)=T(61)+T(64)+T(67)
  C(14)=T(68)+T(75)+T(77)
  C(15)=T(106)+T(113)
  C(16)=T(98)+T(103)+T(104)+T(105)+T(112)+.50*T(111)
  X+.33*T(102)+.50*T(97)
  C(17)=T(94)+.33*T(102)+.50*T(97)+.50*T(96)
  C(18)=T(101)+T(100)+T(108)+.50*T(93)+.50*T(95)
  X+.50*T(96)+.50*T(109)
  C(19)=T(99)+.50*T(95)+.50*T(93)+.50*T(107)
  C(20)=T(123)+.50*T(116)+T(119)+T(120)+T(121)+T(122)
  X+.T(123)+T(124)+T(125)+T(131)+T(132)+T(133)
  C(21)=T(110)+.50*T(116)
  C(22)=T(115)+.50*T(109)
  C(23)=T(114)+.50*T(107)
  C(24)=T(80)+T(81)+T(117)+T(118)+T(127)+T(128)
  C(25)=T(74)+T(75)+T(84)+T(73)+T(78)+T(82)+T(83)
  C(26)=T(28)+T(29)+T(30)+T(71)+T(18)+T(53)+T(59)+T(64)
  X+.T(77)+.50*T(13)+T(26)+T(27)+T(32)+T(33)
  ISUM=0
  DO 200 J=1,26
    IC(J)=C(J)
    ISUM=ISUM+IC(J)
  200 CONTINUE
  WRITE(2,3)IZ,ISUM
  3 FORMAT(10X,12A1,2A1, EMPL TRIPS FROM ZONE#15,
  X# TO ALL OTHER TRACTS (TOTAL= #15#)
  WRITE(2,4)(IC(K),K=1,26)
  4 FORMAT(20I4)
  ITOTAL=ITOTAL+ISUM
100 CONTINUE
PRINT 5,ITOTAL
5 FORMAT(///# TOTAL TRIPS FROM ZONES TO TRACTS = #17)
END

```

APPENDIX H
Program KSQ Listing

Appendix H. Program KSQ Listing

```

PROGRAM KSQ(INPUT,OUTPUT,TAPE=INPUT,TAPE1,TAPE2)
REAL H(133),S(133),T1(1000),T2(1000),T3(1000),E1(1000),E2(1000)
REAL MSM,MSR,MSE
C***** PROGRAM TO COMPUTE CHI-SQUARE FOR ZONE COMPARISONS
10 READ(5,3)CV
3 FORMAT(F5.0)
IF(EOF(5)99,15
15 PRINT 9,CV
9 FORMAT(1 CUT-OFF VALUE = #F10.3)
C***** READ IN TWO TABLES AND FORM OBSERVED TABLE
K=0
C SKIP ZONE ZERO
DO 101 I=1,15
READ(1,1)DUMMY
READ(2,1)DUMMY
101 CONTINUE
DO 100 I=1,111
C SKIP HEADER LINE
READ(1,1)DUMMY
READ(2,1)DUMMY
1 FORMAT(A10)
READ(1,2)(H(L),L=1,133)
READ(2,2)(S(L),L=1,133)
2 FORMAT(10X,10F7.0)
DO 200 J=1,133
IF(H(J).LT.CV.AND.S(J).LT.CV)GO TO 200
K=K+1
IF(K.LE.1000)GO TO 20
PRINT 8
8 FORMAT(///# ***** TOO MANY PAIRS *****#)
GO TO 99
20 T1(K)=H(J)
T2(K)=S(J)
T3(K)=T1(K)+T2(K)
200 CONTINUE
100 CONTINUE
PRINT 4,K
4 FORMAT(///# THERE ARE #I5# PAIRS (COLUMNS) IN THE #/
X # 2 BY K CONTINGENCY TABLE#///)
C***** GET THREE ROW TOTALS
R1=0.
R2=0.
DO 300 M=1,K
R1=R1+T1(M)
R2=R2+T2(M)
300 CONTINUE
GT=R1+R2
PRINT 5,R1,R2
5 FORMAT(///# HOME-INTERVIEW TOTAL = #F7.0, /
X # OTHER SURVEY TOTAL = #F7.0)
C***** GET EXPECTED TABLE
PRINT 111
111 FORMAT(///# PAIR NO. H-I OBS. H-I EXP. O-S OBS. O-S EXP. OBS.
XDIFF PCT.DIFF#/)
TOIF=0.

```

```

TDIFF=0.
TPCD=0.
TSQD=0.
AA=0.
RR=0.
DO 400 JA=1,K
CT=T1(JA)+T2(JA)
AA=AA+T1(JA)**2+T2(JA)**2
RR=RR+CT**2
F=T3(JA)/GT
E1(JA)=R1*F
E2(JA)=R2*F
DIFF=T1(JA)-T2(JA)
SQD=DIFF**2
PCD=DIFF*100.0/T1(JA)
PRINT 11,JA,T1(JA),E1(JA),T2(JA),E2(JA),DIFF,PCD
11 FORMAT(3X,I4.3X,6(2X,F6.1,2X))
TDIF=TDIF+DIFF
TDIFF=TDIFF+ABS(DIFF)
TPCD=TPCD+ABS(PCD)
TSQD=TSQD+SQD
400 CONTINUE
AK=K
RR=0.5*RR
QQ=(R1**2+R2**2)/AK
CC=GT**2/(AK**2)
ADIF=TDIF/AK
ADIFF=TDIFF/AK
APCD=TPCD/AK
RMS=SQRT(TSQD/AK)
SSQD=TSQD-TDIF**2/AK
SD2=SSQD/(AK-1.)
SDB2=SD2/AK
TEA=ADIF/SQRT(SDB2)
PRINT 112,ADIFF,APCD,RMS,TEA
112 FORMAT(///# AVERAGE DIFFERENCE IN DRS. FREQ. = #F10.1/
1 # AVERAGE PERCENTAGE DIFFERENCE = #F10.1/
2 # ROOT MEAN SQUARE ERROR = #F10.2/
3 # T-VALUE FOR PAIRED COMPARISON = #F10.2/)
C**** CALCULATED CHI-SQUARE
CSQ=0.
KM=0
DO 500 JB=1,K
IF(E1(JB).LT.1.0.OR.E2(JB).LT.1.0)GO TO 50
TH=(T1(JB)-E1(JB))**2/E1(JB)
TS=(T2(JB)-E2(JB))**2/E2(JB)
CSQ=CSQ+TH+TS
GO TO 500
50 KM=KM+1
500 CONTINUE
K1=K-1-KM
PRINT 6,CSQ,K1
6 FORMAT(///# RAW CHI-SQUARE = #F14.3# WITH#
X 15 # DEGREES OF FREEDOM#)
C**** CALCULATED T-VALUE
DF=K1

```



```

      IF(K1.LE.30)GO TO 30
      TEE=SQRT(2.0*CSQ)-SQRT(2.0*DF-1.0)
      PRINT 7,TEE
7     FORMAT(///# T-VALUE = #F14.3)
30    CONTINUE
C***** CALCULATE AND PRINT ANOVA TABLE
      SSB=RR-CC
      MSB=SSB/DF
      SSM=QQ-CC
      MSM=SSM
      SST=AA-CC
      SSE=SST-SSB-SSM
      MSE=SSE/DF
      FB=MSB/MSE
      FM=MSM/MSE
      PRINT 113
113   FORMAT(1H1,24X#TWO-WAY ANOVA FOR 2 BY K TABLE#//
X 10X#SOURCE OF VAR. OF SUM OF SQUARES MEAN SQUARE F.CALC#/)
      PRINT 114,SSM,MSM,FM
114   FORMAT(10X# SURVEY METHOD      1 #F14.0,X,F14.1,X,F7.2)
      PRINT 115,DF,SSB,MSB,FB
115   FORMAT(10X# ZONE COMBIN. #F4.0,X,F14.0,X,F14.1,X,F7.2)
      PRINT 116,DF,SSE,MSE
116   FORMAT(10X# RESIDUAL          #F4.0,X,F14.0,X,F14.1/)
      DF=2.*AK-1.
      PRINT 117,DF,SST
117   FORMAT(10X#CORR. TOTAL      #F4.0,X,F14.0//)
      REWIND 1
      REWIND 2
      GO TO 10
99    STOP
      END

```

APPENDIX I

Details of Chi-square Trip Table Comparisons

Appendix I. Details of Chi-square Trip Table Comparisons

CUT-OFF VALUE = 100.000 (GLATDS vs Employee Survey, Zone-Zone)

THERE ARE 99 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLEHOME-INTERVIEW TOTAL = 25646
OTHER SURVEY TOTAL = 26432

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCT.DIFF
1	234.0	265.9	306.0	274.1	-72.0	-30.8
2	192.0	187.1	188.0	192.9	4.0	2.1
3	72.0	88.6	108.0	91.4	-36.0	-50.0
4	120.0	98.5	80.0	101.5	40.0	33.3
5	112.0	126.1	144.0	129.9	-32.0	-28.6
6	96.0	102.9	113.0	106.1	-17.0	-17.7
7	150.0	126.1	106.0	129.9	44.0	29.3
8	180.0	163.5	152.0	168.5	28.0	15.6
9	69.0	83.2	100.0	85.8	-31.0	-44.9
10	91.0	108.8	130.0	112.2	-39.0	-42.9
11	88.0	93.6	102.0	96.4	-14.0	-15.9
12	248.0	245.7	251.0	253.3	-3.0	-1.2
13	117.0	130.0	147.0	134.0	-30.0	-25.6
14	192.0	214.2	243.0	220.8	-51.0	-26.6
15	396.0	375.7	367.0	387.3	29.0	7.3
16	450.0	382.6	327.0	394.4	123.0	27.3
17	281.0	297.9	324.0	307.1	-43.0	-15.3
18	88.0	94.1	103.0	96.9	-15.0	-17.0
19	168.0	165.0	167.0	170.0	1.0	.6
20	162.0	198.5	241.0	204.5	-79.0	-48.8
21	133.0	116.7	104.0	120.3	29.0	21.8
22	90.0	97.5	108.0	100.5	-18.0	-20.0
23	104.0	119.2	138.0	122.8	-34.0	-32.7
24	104.0	125.6	151.0	129.4	-47.0	-45.2
25	192.0	187.6	189.0	193.4	3.0	1.6
26	328.0	292.5	266.0	301.5	62.0	18.9
27	88.0	100.5	116.0	103.5	-28.0	-31.8
28	168.0	132.5	101.0	136.5	67.0	39.9
29	100.0	90.6	84.0	93.4	16.0	16.0
30	360.0	393.0	438.0	405.0	-78.0	-21.7
31	288.0	338.8	400.0	349.2	-112.0	-38.9
32	408.0	385.6	375.0	397.4	33.0	8.1
33	528.0	647.1	786.0	666.9	-258.0	-48.9
34	456.0	395.9	348.0	408.1	108.0	23.7
35	96.0	113.3	134.0	116.7	-38.0	-39.6
36	616.0	473.2	345.0	487.8	271.0	44.0
37	110.0	94.6	82.0	97.4	28.0	25.5
38	233.0	255.6	286.0	263.4	-53.0	-22.7
39	124.0	133.5	147.0	137.5	-23.0	-18.5
40	72.0	87.7	106.0	90.3	-34.0	-47.2
41	104.0	87.2	73.0	89.8	31.0	29.8
42	88.0	101.4	118.0	104.6	-30.0	-34.1

43	154.0	135.9	122.0	140.1	32.0	20.8
44	126.0	133.5	145.0	137.5	-19.0	-15.1
45	200.0	190.6	187.0	196.4	13.0	6.5
46	176.0	139.9	108.0	144.1	68.0	38.6
47	142.0	110.8	83.0	114.2	59.0	41.5
48	617.0	727.4	860.0	749.6	-243.0	-39.4
49	265.0	286.6	317.0	295.4	-52.0	-19.6
50	192.0	178.8	171.0	184.2	21.0	10.9
51	336.0	390.5	457.0	402.5	-121.0	-36.0
52	240.0	291.0	351.0	300.0	-111.0	-46.3
53	133.0	161.5	195.0	166.5	-62.0	-46.6
54	81.0	90.1	102.0	92.9	-21.0	-25.9
55	117.0	111.8	110.0	115.2	7.0	6.0
56	81.0	90.6	103.0	93.4	-22.0	-27.2
57	88.0	104.9	125.0	108.1	-37.0	-42.0
58	670.0	525.0	396.0	541.0	274.0	40.9
59	295.0	262.5	238.0	270.5	57.0	19.3
60	232.0	252.1	280.0	259.9	-48.0	-20.7
61	193.0	222.6	259.0	229.4	-66.0	-34.2
62	120.0	144.8	174.0	149.2	-54.0	-45.0
63	138.0	105.9	77.0	109.1	61.0	44.2
64	133.0	99.0	68.0	102.0	65.0	48.9
65	104.0	81.7	62.0	84.3	42.0	40.4
66	87.0	92.6	101.0	95.4	-14.0	-16.1
67	168.0	154.1	145.0	158.9	23.0	13.7
68	136.0	102.4	72.0	105.6	64.0	47.1
69	96.0	101.9	111.0	105.1	-15.0	-15.6
70	784.0	872.1	987.0	898.9	-203.0	-25.9
71	216.0	183.7	157.0	189.3	59.0	27.3
72	176.0	215.2	261.0	221.8	-85.0	-48.3
73	197.0	150.2	108.0	154.8	89.0	45.2
74	1521.0	1569.9	1667.0	1618.1	-146.0	-9.6
75	772.0	881.5	1018.0	908.5	-246.0	-31.9
76	254.0	250.2	254.0	257.8	0.0	0.0
77	832.0	620.5	428.0	639.5	404.0	48.6
78	400.0	335.4	281.0	345.6	119.0	29.7
79	168.0	135.4	107.0	139.6	61.0	36.3
80	103.0	79.3	58.0	81.7	45.0	43.7
81	128.0	127.5	131.0	131.5	-3.0	-2.3
82	308.0	354.6	412.0	365.4	-104.0	-33.8
83	147.0	114.7	86.0	118.3	61.0	41.5
84	429.0	456.5	498.0	470.5	-69.0	-16.1
85	231.0	183.2	141.0	188.8	90.0	39.0
86	267.0	300.9	344.0	310.1	-77.0	-28.8
87	105.0	88.6	75.0	91.4	30.0	28.6
88	2114.0	1894.5	1733.0	1952.5	381.0	18.0
89	849.0	997.7	1177.0	1028.3	-328.0	-38.6
90	549.0	652.5	776.0	672.5	-227.0	-41.3
91	88.0	94.1	103.0	96.9	-15.0	-17.0
92	88.0	104.9	125.0	108.1	-37.0	-42.0
93	88.0	106.9	129.0	110.1	-41.0	-46.6
94	256.0	262.0	276.0	270.0	-20.0	-7.8
95	140.0	155.6	176.0	160.4	-36.0	-25.7
96	252.0	249.7	255.0	257.3	-3.0	-1.2
97	144.0	150.2	161.0	154.8	-17.0	-11.8
98	144.0	143.3	147.0	147.7	-3.0	-2.1
99	280.0	309.3	348.0	318.7	-68.0	-24.3

AVERAGE DIFFERENCE IN OBS. FREQ. =

69.4

AVERAGE PERCENTAGE DIFFERENCE	=	27.6
ROOT MEAN SQUARE ERROR	=	106.24
T-VALUE FOR PAIRED COMPARISON	=	-0.74

RAW CHI-SQUARE = 1183.551 WITH 98 DEGREES OF FREEDOM

T-VALUE = 34.689

CUT-OFF VALUE = 50.000

(GLATDS vs Employee Survey, Zone-Zone)

THERE ARE 233 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 33820

OTHER SURVEY TOTAL = 34611

PAIR NO.	H-I ORS.	H-I EXP.	O-S ORS.	O-S EXP.	OBS.DIFF	PCT.DIFF
1	61.0	66.7	74.0	68.3	-13.0	-21.3
2	90.0	89.5	91.0	91.5	-1.0	-1.1
3	48.0	50.4	54.0	51.6	-6.0	-12.5
4	72.0	67.7	65.0	69.3	7.0	9.7
5	58.0	47.9	39.0	49.1	19.0	32.8
6	64.0	53.4	44.0	54.6	20.0	31.3
7	56.0	62.3	70.0	63.7	-14.0	-25.0
8	61.0	49.4	39.0	50.6	22.0	36.1
9	234.0	266.9	306.0	273.1	-72.0	-30.8
10	81.0	76.6	74.0	78.4	7.0	8.6
11	63.0	76.6	92.0	78.4	-29.0	-46.0
12	192.0	187.8	188.0	192.2	4.0	2.1
13	56.0	47.9	41.0	49.1	15.0	26.8
14	48.0	58.8	71.0	60.2	-23.0	-47.9
15	40.0	47.9	57.0	49.1	-17.0	-42.5
16	72.0	89.0	108.0	91.0	-36.0	-50.0
17	48.0	57.3	68.0	58.7	-20.0	-41.7
18	120.0	98.8	80.0	101.2	40.0	33.3
19	112.0	126.5	144.0	129.5	-32.0	-28.6
20	96.0	103.3	113.0	105.7	-17.0	-17.7
21	88.0	85.0	84.0	87.0	4.0	4.5
22	48.0	56.3	66.0	57.7	-18.0	-37.5
23	48.0	54.4	62.0	55.6	-14.0	-29.2
24	70.0	78.6	89.0	80.4	-19.0	-27.1
25	150.0	126.5	106.0	129.5	44.0	29.3
26	50.0	47.4	46.0	48.6	4.0	8.0
27	58.0	63.8	71.0	65.2	-13.0	-22.4
28	50.0	59.3	70.0	60.7	-20.0	-40.0
29	84.0	79.6	77.0	81.4	7.0	8.3
30	65.0	61.3	59.0	62.7	6.0	9.2
31	45.0	55.4	67.0	56.6	-22.0	-48.9
32	59.0	59.8	62.0	61.2	-3.0	-5.1
33	53.0	46.0	40.0	47.0	13.0	24.5
34	72.0	61.3	52.0	62.7	20.0	27.8
35	45.0	49.4	55.0	50.6	-10.0	-22.2
36	81.0	63.8	48.0	65.2	33.0	40.7
37	180.0	164.1	152.0	167.9	28.0	15.6
38	63.0	55.8	50.0	57.2	13.0	20.6
39	65.0	55.4	47.0	56.6	18.0	27.7
40	56.0	51.4	48.0	52.6	8.0	14.3
41	96.0	85.0	76.0	87.0	20.0	20.8
42	69.0	83.5	100.0	85.5	-31.0	-44.9

43	36.0	42.5	50.0	43.5	-14.0	
44	45.0	50.9	58.0	52.1	-13.0	-38.9
45	62.0	57.3	54.0	58.7	8.0	-28.9
46	54.0	59.3	66.0	60.7	-12.0	12.9
47	54.0	40.0	27.0	41.0	-27.0	-27.2
48	91.0	109.2	130.0	111.8	27.0	50.0
49	64.0	69.7	77.0	71.3	-39.0	-42.9
50	56.0	58.3	62.0	59.7	-13.0	-20.3
51	88.0	93.9	102.0	96.1	-6.0	-10.7
52	56.0	49.9	45.0	51.1	-14.0	-15.9
53	48.0	51.4	56.0	52.6	11.0	19.6
54	248.0	246.6	251.0	252.4	-8.0	-16.7
55	40.0	47.4	56.0	48.6	-3.0	-1.2
56	56.0	42.5	30.0	43.5	-16.0	-40.0
57	97.0	91.9	89.0	94.1	26.0	46.4
58	117.0	130.5	147.0	133.5	8.0	8.2
59	48.0	49.4	52.0	50.6	-30.0	-25.6
60	192.0	215.0	243.0	220.0	-4.0	-8.3
61	90.0	73.1	58.0	74.9	-51.0	-26.6
62	44.0	52.4	62.0	53.6	32.0	35.6
63	35.0	42.0	50.0	43.0	-18.0	-40.9
64	63.0	57.3	53.0	58.7	-15.0	-42.9
65	396.0	377.1	367.0	385.9	10.0	15.9
66	36.0	43.0	51.0	44.0	29.0	7.3
67	90.0	89.0	90.0	91.0	-15.0	-41.7
68	54.0	47.0	41.0	48.0	0.0	0.0
69	45.0	47.0	50.0	48.0	13.0	24.1
70	450.0	384.0	327.0	393.0	-5.0	-11.1
71	48.0	52.4	58.0	53.6	123.0	27.3
72	281.0	299.0	324.0	306.0	-10.0	-20.8
73	40.0	47.4	56.0	48.6	-43.0	-15.3
74	56.0	62.3	70.0	63.7	-16.0	-40.0
75	88.0	94.4	103.0	96.6	-14.0	-25.0
76	40.0	45.0	51.0	46.0	-15.0	-17.0
77	40.0	48.9	59.0	50.1	-11.0	-27.5
78	168.0	165.6	167.0	169.4	-19.0	-47.5
79	63.0	60.8	60.0	62.2	1.0	.6
80	162.0	199.2	241.0	203.8	3.0	4.8
81	60.0	47.9	37.0	40.1	-79.0	-48.8
82	80.0	85.0	92.0	87.0	23.0	38.3
83	133.0	117.1	104.0	119.9	-12.0	-15.0
84	90.0	97.9	108.0	100.1	29.0	21.8
85	104.0	119.6	138.0	122.4	-18.0	-20.0
86	64.0	65.2	68.0	66.8	-34.0	-32.7
87	56.0	59.3	64.0	60.7	-4.0	-6.3
88	56.0	52.4	50.0	53.6	-8.0	-14.3
89	64.0	71.7	81.0	73.3	6.0	10.7
90	80.0	77.1	76.0	78.9	-17.0	-26.6
91	104.0	126.0	151.0	129.0	4.0	5.0
92	192.0	188.3	189.0	192.7	-47.0	-45.2
93	328.0	293.6	266.0	300.4	3.0	1.6
94	40.0	45.5	52.0	46.5	62.0	18.9
95	88.0	100.8	116.0	103.2	-12.0	-30.0
96	168.0	132.9	101.0	136.1	-28.0	-31.8
97	90.0	84.0	80.0	86.0	67.0	39.9
98	100.0	90.9	84.0	93.1	10.0	11.1
99	60.0	52.4	46.0	53.6	16.0	16.0
100	72.0	72.2	74.0	73.8	14.0	23.3
101	360.0	394.4	438.0	403.6	-2.0	-2.8
102	73.0	69.7	68.0	71.3	-78.0	-21.7
103	288.0	340.0	400.0	348.0	5.0	6.8
					-112.0	-38.9

104	64.0	58.3	54.0	59.7	10.0	15.6
105	408.0	387.0	375.0	396.0	33.0	8.1
106	528.0	649.4	786.0	664.6	-258.0	-48.9
107	40.0	47.4	56.0	48.6	-16.0	-40.0
108	64.0	64.7	67.0	66.3	-3.0	-4.7
109	64.0	54.9	47.0	56.1	17.0	26.6
110	48.0	49.4	52.0	50.6	-4.0	-8.3
111	72.0	66.7	63.0	68.3	9.0	12.5
112	456.0	397.4	348.0	406.6	108.0	23.7
113	40.0	47.4	56.0	48.6	-16.0	-40.0
114	96.0	113.7	134.0	116.3	-38.0	-39.6
115	616.0	474.9	345.0	486.1	271.0	44.0
116	56.0	53.9	53.0	55.1	3.0	5.4
117	64.0	55.4	48.0	56.6	16.0	25.0
118	110.0	94.9	82.0	97.1	28.0	25.5
119	233.0	256.5	286.0	262.5	-53.0	-22.7
120	36.0	44.5	54.0	45.5	-18.0	-50.0
121	124.0	133.9	147.0	137.1	-23.0	-18.5
122	63.0	73.6	86.0	75.4	-23.0	-36.5
123	58.0	53.9	51.0	55.1	7.0	12.1
124	72.0	88.0	106.0	90.0	-34.0	-47.2
125	104.0	87.5	73.0	89.5	31.0	29.8
126	48.0	51.9	57.0	53.1	-9.0	-18.7
127	72.0	70.7	71.0	72.3	1.0	1.4
128	72.0	84.5	99.0	86.5	-27.0	-37.5
129	96.0	95.4	97.0	97.6	-1.0	-1.0
130	64.0	49.4	36.0	50.6	28.0	43.8
131	88.0	101.8	118.0	104.2	-30.0	-34.1
132	154.0	136.4	122.0	139.6	32.0	20.8
133	126.0	133.9	145.0	137.1	-19.0	-15.1
134	40.0	46.5	54.0	47.5	-14.0	-35.0
135	41.0	46.0	52.0	47.0	-11.0	-26.8
136	64.0	75.1	88.0	76.9	-24.0	-37.5
137	200.0	191.3	187.0	195.7	13.0	6.5
138	176.0	140.4	108.0	143.6	68.0	38.6
139	72.0	57.3	44.0	58.7	28.0	38.9
140	80.0	73.6	69.0	75.4	11.0	13.8
141	142.0	111.2	83.0	113.8	59.0	41.5
142	617.0	730.0	860.0	747.0	-243.0	-39.4
143	265.0	287.6	317.0	294.4	-52.0	-19.6
144	192.0	179.4	171.0	183.6	21.0	10.9
145	80.0	62.8	47.0	64.2	33.0	41.3
146	336.0	391.9	457.0	401.1	-121.0	-36.0
147	240.0	292.1	351.0	298.9	-111.0	-46.3
148	64.0	50.4	38.0	51.6	26.0	40.6
149	70.0	72.7	77.0	74.3	-7.0	-10.0
150	133.0	162.1	195.0	165.9	-62.0	-46.6
151	86.0	90.9	98.0	93.1	-12.0	-14.0
152	77.0	71.7	68.0	73.3	9.0	11.7
153	56.0	52.4	50.0	53.6	6.0	10.7
154	81.0	90.4	102.0	92.6	-21.0	-25.9
155	117.0	112.2	110.0	114.8	7.0	6.0
156	63.0	55.4	49.0	56.6	14.0	22.2
157	81.0	90.9	103.0	93.1	-22.0	-27.2
158	88.0	105.3	125.0	107.7	-37.0	-42.0
159	670.0	526.8	396.0	539.2	274.0	40.9
160	295.0	263.4	238.0	269.6	57.0	19.3
161	232.0	253.0	280.0	259.0	-48.0	-20.7
162	72.0	57.3	44.0	58.7	28.0	38.9
163	193.0	223.4	259.0	228.6	-66.0	-34.2
164	120.0	145.3	174.0	148.7	-54.0	-45.0

226	80.0	65.2	52.0	66.8	28.0	35.0
227	65.0	51.9	40.0	53.1	25.0	38.5
228	144.0	150.7	141.0	154.3	-17.0	-11.8
229	144.0	143.8	147.0	147.2	-3.0	-2.1
230	72.0	72.2	74.0	73.8	-2.0	-2.8
231	64.0	77.6	93.0	79.4	-29.0	-45.3
232	280.0	310.4	348.0	317.6	-68.0	-24.3
233	72.0	59.8	49.0	61.2	23.0	31.9

AVERAGE DIFFERENCE IN OBS. FREQ. = 37.6
 AVERAGE PERCENTAGE DIFFERENCE = 25.9
 ROOT MEAN SQUARE ERROR = 70.32
 T-VALUE FOR PAIRED COMPARISON = -.74

RAW CHI-SQUARE = 1487.823 WITH 232 DEGREES OF FREEDOM

T-VALUE = 33.032

CUT-OFF VALUE = 25.000 (GLATDS vs Employer Survey, Zone-Zone)

THERE ARE 514 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 42663
OTHER SURVEY TOTAL = 43151

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	ORS.DIFF	PCT.DIFF
1	27.0	32.3	38.0	32.7	-11.0	-40.7
2	27.0	30.8	35.0	31.2	-8.0	-29.6
3	61.0	67.1	74.0	67.9	-13.0	-21.3
4	19.0	21.9	25.0	22.1	-6.0	-31.6
5	90.0	90.0	91.0	91.0	-1.0	-1.1
6	48.0	50.7	54.0	51.3	-6.0	-12.5
7	72.0	68.1	65.0	68.9	7.0	9.7
8	58.0	48.2	39.0	48.8	19.0	32.8
9	64.0	53.7	44.0	54.3	20.0	31.3
10	56.0	62.6	70.0	63.4	-14.0	-25.0
11	27.0	21.9	17.0	22.1	10.0	37.0
12	35.0	37.3	40.0	37.7	-5.0	-14.3
13	61.0	49.7	39.0	50.3	22.0	36.1
14	27.0	26.8	27.0	27.2	0.0	0.0
15	234.0	268.5	306.0	271.5	-72.0	-30.8
16	27.0	27.8	29.0	28.2	-2.0	-7.4
17	81.0	77.1	74.0	77.9	7.0	8.6
18	42.0	32.3	23.0	32.7	19.0	45.2
19	63.0	77.1	92.0	77.9	-29.0	-46.0
20	27.0	32.3	38.0	32.7	-11.0	-40.7
21	27.0	21.9	17.0	22.1	10.0	37.0
22	32.0	29.8	28.0	30.2	4.0	12.5
23	40.0	35.3	31.0	35.7	9.0	22.5
24	192.0	188.9	188.0	191.1	4.0	2.1
25	56.0	48.2	41.0	48.8	15.0	26.8
26	48.0	38.3	29.0	38.7	19.0	39.6
27	24.0	25.9	28.0	26.1	-4.0	-16.7
28	48.0	40.8	34.0	41.2	14.0	29.2
29	41.0	44.7	49.0	45.3	-8.0	-19.5
30	24.0	26.8	30.0	27.2	-6.0	-25.0
31	48.0	59.2	71.0	59.8	-23.0	-47.9
32	32.0	34.8	38.0	35.2	-6.0	-18.7
33	40.0	34.8	30.0	35.2	10.0	25.0
34	24.0	29.3	35.0	29.7	-11.0	-45.8
35	24.0	25.9	28.0	26.1	-4.0	-16.7
36	40.0	48.2	57.0	48.8	-17.0	-42.5
37	25.0	26.3	28.0	26.7	-3.0	-12.0
38	32.0	26.8	22.0	27.2	10.0	31.3
39	72.0	89.5	108.0	90.5	-36.0	-50.0
40	40.0	39.3	39.0	39.7	1.0	2.5
41	32.0	36.3	41.0	36.7	-9.0	-28.1
42	48.0	35.8	24.0	36.2	24.0	50.0

43	48.0	57.7	68.0	58.3	-20.0	-41.7
44	40.0	35.3	31.0	35.7	9.0	22.5
45	120.0	99.4	80.0	100.6	40.0	33.3
46	112.0	127.3	144.0	128.7	-32.0	-28.6
47	32.0	32.8	34.0	33.2	-2.0	-6.3
48	40.0	30.8	22.0	31.2	18.0	45.0
49	96.0	103.9	113.0	105.1	-17.0	-17.7
50	49.0	47.7	47.0	48.3	2.0	4.1
51	24.0	28.3	33.0	28.7	-9.0	-37.5
52	32.0	36.8	42.0	37.2	-10.0	-31.3
53	24.0	29.3	35.0	29.7	-11.0	-45.8
54	88.0	85.5	84.0	86.5	4.0	4.5
55	48.0	56.7	66.0	57.3	-18.0	-37.5
56	24.0	26.8	30.0	27.2	-6.0	-25.0
57	32.0	36.8	42.0	37.2	-10.0	-31.3
58	48.0	54.7	62.0	55.3	-14.0	-29.2
59	70.0	79.0	89.0	80.0	-19.0	-27.1
60	30.0	28.3	27.0	28.7	3.0	10.0
61	150.0	127.3	106.0	128.7	44.0	29.3
62	50.0	47.7	46.0	48.3	4.0	8.0
63	20.0	24.4	29.0	24.6	-9.0	-45.0
64	30.0	25.9	22.0	26.1	8.0	26.7
65	30.0	26.8	24.0	27.2	6.0	20.0
66	58.0	64.1	71.0	64.9	-13.0	-22.4
67	50.0	59.7	70.0	60.3	-20.0	-40.0
68	20.0	24.4	29.0	24.6	-9.0	-45.0
69	32.0	37.8	44.0	38.2	-12.0	-37.5
70	32.0	27.3	23.0	27.7	9.0	28.1
71	48.0	41.3	35.0	41.7	13.0	27.1
72	40.0	41.8	44.0	42.2	-4.0	-10.0
73	84.0	80.0	77.0	81.0	7.0	8.3
74	24.0	25.9	28.0	26.1	-4.0	-16.7
75	65.0	61.6	59.0	62.4	6.0	9.2
76	24.0	28.8	34.0	29.2	-10.0	-41.7
77	24.0	27.3	31.0	27.7	-7.0	-29.2
78	45.0	55.7	67.0	56.3	-22.0	-48.9
79	18.0	21.9	26.0	22.1	-8.0	-44.4
80	36.0	33.3	31.0	33.7	5.0	13.9
81	59.0	60.2	62.0	60.8	-3.0	-5.1
82	28.0	31.8	36.0	32.2	-8.0	-28.6
83	53.0	46.2	40.0	46.8	13.0	24.5
84	18.0	22.4	27.0	22.6	-9.0	-50.0
85	26.0	26.3	27.0	26.7	-1.0	-3.8
86	35.0	27.3	20.0	27.7	15.0	42.9
87	17.0	20.9	25.0	21.1	-8.0	-47.1
88	27.0	20.4	14.0	20.6	13.0	48.1
89	72.0	61.6	52.0	62.4	20.0	27.8
90	36.0	26.8	18.0	27.2	18.0	50.0
91	45.0	49.7	55.0	50.3	-10.0	-22.2
92	27.0	23.4	20.0	23.6	7.0	25.9
93	81.0	64.1	48.0	64.9	33.0	40.7
94	180.0	165.1	152.0	166.9	28.0	15.6
95	63.0	56.2	50.0	56.8	13.0	20.6
96	22.0	23.9	26.0	24.1	-4.0	-18.2
97	30.0	29.3	29.0	29.7	1.0	3.3
98	24.0	24.4	25.0	24.6	-1.0	-4.2
99	46.0	37.3	29.0	37.7	17.0	37.0
100	40.0	34.3	29.0	34.7	11.0	27.5
101	24.0	26.3	29.0	26.7	-5.0	-20.8
102	65.0	55.7	47.0	56.3	18.0	27.7
103	32.0	34.3	37.0	34.7	-5.0	-15.6

104	32.0	24.4	17.0	24.6	15.0	
105	24.0	28.8	34.0	29.2	-10.0	44.9
106	30.0	36.8	44.0	37.2	-14.0	-41.7
107	56.0	51.7	48.0	52.3	8.0	-44.7
108	40.0	35.8	32.0	36.2	8.0	14.3
109	30.0	33.8	38.0	34.2	-8.0	29.0
110	32.0	38.3	45.0	38.7	-13.0	-24.7
111	96.0	85.5	76.0	86.5	20.0	-40.6
112	32.0	36.8	42.0	37.2	-10.0	20.8
113	24.0	26.3	29.0	26.7	-5.0	-31.3
114	24.0	29.3	35.0	29.7	-11.0	-20.8
115	69.0	84.0	100.0	85.0	-31.0	-45.8
116	36.0	42.8	50.0	43.2	-14.0	-44.9
117	43.0	44.2	46.0	44.8	-3.0	-38.9
118	27.0	27.8	29.0	28.2	-2.0	-7.0
119	45.0	51.2	58.0	51.8	-13.0	-7.4
120	62.0	57.7	54.0	58.3	8.0	-28.9
121	54.0	59.7	66.0	60.3	-12.0	12.9
122	54.0	40.3	27.0	40.7	27.0	-22.2
123	27.0	26.8	27.0	27.2	0.0	50.0
124	91.0	109.9	130.0	111.1	-39.0	0.0
125	45.0	41.3	38.0	41.7	7.0	-42.9
126	27.0	20.9	15.0	21.1	12.0	15.6
127	64.0	70.1	77.0	70.9	-13.0	44.4
128	56.0	58.7	62.0	59.3	-6.0	-20.3
129	24.0	28.8	34.0	29.2	-10.0	-10.7
130	88.0	94.5	102.0	95.5	-14.0	-41.7
131	56.0	50.2	45.0	50.8	11.0	-15.9
132	48.0	51.7	56.0	52.3	-8.0	19.6
133	248.0	248.1	251.0	250.9	-3.0	-16.7
134	41.0	33.8	27.0	34.2	14.0	-1.2
135	40.0	47.7	56.0	48.3	-16.0	34.1
136	56.0	42.8	30.0	43.2	26.0	-40.0
137	48.0	40.3	33.0	40.7	15.0	46.4
138	33.0	25.4	18.0	25.6	15.0	31.3
139	25.0	27.3	30.0	27.7	-5.0	45.5
140	27.0	30.8	35.0	31.2	-8.0	-20.0
141	97.0	92.5	89.0	93.5	8.0	-29.6
142	117.0	131.2	147.0	132.8	-30.0	8.2
143	45.0	38.8	33.0	39.2	12.0	-25.6
144	27.0	27.3	28.0	27.7	-1.0	26.7
145	27.0	28.8	31.0	29.2	-4.0	-3.7
146	26.0	27.3	29.0	27.7	-3.0	-14.8
147	40.0	33.3	27.0	33.7	13.0	-11.5
148	48.0	42.8	38.0	43.2	10.0	32.5
149	48.0	49.7	52.0	50.3	-4.0	20.8
150	32.0	24.9	18.0	25.1	14.0	-8.3
151	32.0	29.3	27.0	29.7	5.0	43.8
152	192.0	216.3	243.0	218.7	-51.0	15.6
153	32.0	36.3	41.0	36.7	-9.0	-26.6
154	24.0	24.4	25.0	24.6	-1.0	-28.1
155	28.0	33.8	40.0	34.2	-12.0	-4.2
156	28.0	26.8	26.0	27.2	2.0	-42.9
157	45.0	36.3	28.0	36.7	17.0	7.1
158	90.0	73.6	58.0	74.4	32.0	37.8
159	27.0	29.3	32.0	29.7	-5.0	35.6
160	36.0	42.3	49.0	42.7	-13.0	-18.5
161	44.0	52.7	62.0	53.3	-18.0	-36.1
162	35.0	42.3	50.0	42.7	-15.0	-40.9
163	36.0	31.3	27.0	31.7	9.0	-42.9
164	63.0	57.7	53.0	58.3	10.0	25.0
						15.9

165	36.0	35.3	35.0	35.7	1.0	2.8
166	396.0	379.3	367.0	383.7	29.0	7.3
167	27.0	26.3	26.0	26.7	1.0	3.7
168	36.0	43.3	51.0	43.7	-15.0	-41.7
169	26.0	24.4	23.0	24.6	3.0	11.5
170	36.0	29.8	24.0	30.2	12.0	33.3
171	90.0	89.5	90.0	90.5	0.0	0.0
172	27.0	22.9	19.0	23.1	8.0	29.6
173	54.0	47.2	41.0	47.8	13.0	24.1
174	27.0	26.3	26.0	26.7	1.0	3.7
175	18.0	21.4	25.0	21.6	-7.0	-38.9
176	36.0	30.8	26.0	31.2	10.0	27.8
177	36.0	35.3	35.0	35.7	1.0	2.8
178	45.0	47.2	50.0	47.8	-5.0	-11.1
179	450.0	386.3	327.0	390.7	123.0	27.3
180	18.0	21.4	25.0	21.6	-7.0	-38.9
181	27.0	23.9	21.0	24.1	6.0	22.2
182	48.0	52.7	58.0	53.3	-10.0	-20.8
183	40.0	44.2	49.0	44.8	-9.0	-22.5
184	261.0	300.8	324.0	304.2	-43.0	-15.3
185	24.0	28.8	34.0	29.2	-10.0	-41.7
186	32.0	31.8	32.0	32.2	0.0	0.0
187	24.0	29.3	35.0	29.7	-11.0	-45.8
188	40.0	47.7	56.0	48.3	-16.0	-40.0
189	48.0	39.3	31.0	39.7	17.0	35.4
190	24.0	29.8	36.0	30.2	-12.0	-50.0
191	56.0	62.6	70.0	63.4	-14.0	-25.0
192	88.0	95.0	103.0	96.0	-15.0	-17.0
193	40.0	45.2	51.0	45.8	-11.0	-27.5
194	24.0	27.8	32.0	28.2	-8.0	-33.3
195	24.0	26.8	30.0	27.2	-6.0	-25.0
196	40.0	49.2	59.0	49.8	-19.0	-47.5
197	168.0	166.5	167.0	168.5	1.0	.6
198	44.0	42.8	42.0	43.2	2.0	4.5
199	63.0	61.2	60.0	61.8	3.0	4.8
200	162.0	200.4	241.0	202.6	-79.0	-48.8
201	36.0	30.3	25.0	30.7	11.0	30.6
202	26.0	22.9	20.0	23.1	6.0	23.1
203	38.0	37.8	38.0	38.2	0.0	0.0
204	60.0	48.2	37.0	48.8	23.0	38.3
205	20.0	24.4	29.0	24.6	-9.0	-45.0
206	20.0	23.4	27.0	23.6	-7.0	-35.0
207	80.0	85.5	92.0	86.5	-12.0	-15.0
208	30.0	26.8	24.0	27.2	6.0	20.0
209	32.0	31.8	32.0	32.2	0.0	0.0
210	48.0	38.3	29.0	38.7	19.0	39.6
211	40.0	44.2	49.0	44.8	-9.0	-22.5
212	26.0	21.9	18.0	22.1	8.0	30.8
213	26.0	30.3	35.0	30.7	-9.0	-34.6
214	36.0	30.8	26.0	31.2	10.0	27.8
215	133.0	117.8	104.0	119.2	29.0	21.8
216	90.0	98.4	108.0	99.6	-18.0	-20.0
217	24.0	26.8	30.0	27.2	-6.0	-25.0
218	104.0	120.3	138.0	121.7	-34.0	-32.7
219	64.0	65.6	68.0	66.4	-4.0	-6.3
220	24.0	28.8	34.0	29.2	-10.0	-41.7
221	24.0	27.8	32.0	28.2	-8.0	-33.3
222	56.0	59.7	64.0	60.3	-8.0	-14.3
223	48.0	37.3	27.0	37.7	21.0	43.8
224	56.0	52.7	50.0	53.3	6.0	10.7
225	32.0	32.8	34.0	33.2	-2.0	-6.3

226	40.0	32.3	25.0	32.7	15.0	37.5
227	32.0	34.8	38.0	35.2	-6.0	-18.7
228	33.0	31.3	30.0	31.7	3.0	9.1
229	24.0	26.3	29.0	26.7	-5.0	-20.8
230	41.0	33.3	26.0	33.7	15.0	36.6
231	32.0	24.9	18.0	25.1	14.0	43.8
232	64.0	72.1	81.0	72.9	-17.0	-26.6
233	80.0	77.6	76.0	78.4	4.0	5.0
234	104.0	126.8	151.0	128.2	-47.0	-45.2
235	192.0	189.4	189.0	191.6	3.0	1.6
236	32.0	38.3	45.0	38.7	-13.0	-40.6
237	24.0	25.9	28.0	26.1	-4.0	-16.7
238	40.0	30.8	22.0	31.2	18.0	45.0
239	24.0	28.8	34.0	29.2	-10.0	-41.7
240	40.0	44.2	49.0	44.8	-9.0	-22.5
241	32.0	26.8	22.0	27.2	10.0	31.3
242	328.0	295.3	266.0	298.7	62.0	18.9
243	40.0	43.7	48.0	44.3	-8.0	-20.0
244	32.0	33.8	36.0	34.2	-4.0	-12.5
245	40.0	44.2	49.0	44.8	-9.0	-22.5
246	32.0	23.9	16.0	24.1	16.0	50.0
247	40.0	45.7	52.0	46.3	-12.0	-30.0
248	48.0	43.3	39.0	43.7	9.0	18.7
249	88.0	101.4	116.0	102.6	-28.0	-31.8
250	168.0	133.7	101.0	135.3	67.0	39.9
251	24.0	26.8	30.0	27.2	-6.0	-25.0
252	27.0	30.8	35.0	31.2	-8.0	-29.6
253	25.0	19.9	15.0	20.1	10.0	40.0
254	18.0	21.9	26.0	22.1	-8.0	-44.4
255	30.0	31.8	34.0	32.2	-4.0	-13.3
256	20.0	22.4	25.0	22.6	-5.0	-25.0
257	90.0	84.5	80.0	85.5	10.0	11.1
258	100.0	91.5	84.0	92.5	16.0	16.0
259	60.0	52.7	46.0	53.3	14.0	23.3
260	72.0	72.6	74.0	73.4	-2.0	-2.8
261	32.0	37.3	43.0	37.7	-11.0	-34.4
262	32.0	34.3	37.0	34.7	-5.0	-15.6
263	360.0	396.7	438.0	401.3	-78.0	-21.7
264	73.0	70.1	68.0	70.9	5.0	6.8
265	24.0	27.3	31.0	27.7	-7.0	-29.2
266	288.0	342.0	400.0	346.0	-112.0	-38.9
267	32.0	26.8	22.0	27.2	10.0	31.3
268	32.0	38.3	45.0	38.7	-13.0	-40.6
269	32.0	26.3	21.0	26.7	11.0	34.4
270	25.0	19.9	15.0	20.1	10.0	40.0
271	26.0	23.9	22.0	24.1	4.0	15.4
272	64.0	58.7	54.0	59.3	10.0	15.6
273	48.0	47.2	47.0	47.8	1.0	2.1
274	40.0	30.8	22.0	31.2	18.0	45.0
275	48.0	45.2	43.0	45.8	5.0	10.4
276	32.0	37.8	44.0	38.2	-12.0	-37.5
277	408.0	389.3	375.0	393.7	33.0	8.1
278	48.0	43.7	40.0	44.3	8.0	16.7
279	528.0	653.3	786.0	660.7	-258.0	-48.9
280	33.0	30.3	28.0	30.7	5.0	15.2
281	40.0	47.7	56.0	48.3	-16.0	-40.0
282	32.0	24.4	17.0	24.6	15.0	46.9
283	40.0	39.3	39.0	39.7	1.0	2.5
284	64.0	65.1	67.0	65.9	-3.0	-4.7
285	64.0	55.2	47.0	55.8	17.0	26.6
286	24.0	26.8	30.0	27.2	-6.0	-25.0

287	48.0	49.7	52.0	50.3	-4.0	-8.3
288	72.0	67.1	63.0	67.9	9.0	12.5
289	40.0	41.8	44.0	42.2	-4.0	-10.0
290	32.0	26.3	21.0	26.7	11.0	34.4
291	24.0	24.9	26.0	25.1	-2.0	-8.3
292	456.0	399.7	348.0	404.3	108.0	23.7
293	40.0	47.7	56.0	48.3	-16.0	-40.0
294	96.0	114.3	134.0	115.7	-38.0	-39.6
295	48.0	47.7	48.0	48.3	0.0	0.0
296	616.0	477.8	345.0	483.2	271.0	44.0
297	24.0	28.3	33.0	28.7	-9.0	-37.5
298	56.0	54.2	53.0	54.8	3.0	5.4
299	64.0	55.7	48.0	56.3	16.0	25.0
300	32.0	25.4	19.0	25.6	13.0	40.6
301	32.0	33.3	35.0	33.7	-3.0	-9.4
302	32.0	26.3	21.0	26.7	11.0	34.4
303	110.0	95.5	82.0	96.5	28.0	25.5
304	20.0	23.9	28.0	24.1	-8.0	-40.0
305	27.0	32.8	39.0	33.2	-12.0	-44.4
306	233.0	258.0	286.0	261.0	-53.0	-22.7
307	36.0	44.7	54.0	45.3	-18.0	-50.0
308	36.0	30.3	25.0	30.7	11.0	30.6
309	124.0	134.7	147.0	136.3	-23.0	-18.5
310	27.0	32.3	38.0	32.7	-11.0	-40.7
311	63.0	74.1	86.0	74.9	-23.0	-36.5
312	58.0	54.2	51.0	54.8	7.0	12.1
313	32.0	29.8	28.0	30.2	4.0	12.5
314	24.0	24.9	26.0	25.1	-2.0	-8.3
315	24.0	27.8	32.0	28.2	-8.0	-33.3
316	24.0	26.3	29.0	26.7	-5.0	-20.8
317	24.0	27.8	32.0	28.2	-8.0	-33.3
318	72.0	88.5	106.0	89.5	-34.0	-47.2
319	32.0	27.3	23.0	27.7	9.0	28.1
320	40.0	43.7	48.0	44.3	-8.0	-20.0
321	104.0	88.0	73.0	89.0	31.0	29.8
322	32.0	27.3	23.0	27.7	9.0	28.1
323	48.0	52.2	57.0	52.8	-9.0	-18.7
324	32.0	38.8	46.0	39.2	-14.0	-43.8
325	32.0	34.8	38.0	35.2	-6.0	-18.7
326	48.0	36.3	25.0	36.7	23.0	47.9
327	72.0	71.1	71.0	71.9	1.0	1.4
328	24.0	28.8	34.0	29.2	-10.0	-41.7
329	72.0	85.0	99.0	86.0	-27.0	-37.5
330	32.0	34.3	37.0	34.7	-5.0	-15.6
331	24.0	27.3	31.0	27.7	-7.0	-29.2
332	28.0	26.8	26.0	27.2	2.0	7.1
333	96.0	96.0	97.0	97.0	-1.0	-1.0
334	64.0	49.7	36.0	50.3	28.0	43.8
335	48.0	42.8	38.0	43.2	10.0	20.8
336	88.0	102.4	118.0	103.6	-30.0	-34.1
337	28.0	22.4	17.0	22.6	11.0	39.3
338	154.0	137.2	122.0	138.8	32.0	20.8
339	18.0	21.4	25.0	21.6	-7.0	-38.9
340	126.0	134.7	145.0	136.3	-19.0	-15.1
341	40.0	46.7	54.0	47.3	-14.0	-35.0
342	27.0	30.3	34.0	30.7	-7.0	-25.9
343	41.0	46.2	52.0	46.8	-11.0	-26.8
344	64.0	75.6	88.0	76.4	-24.0	-37.5
345	200.0	192.4	187.0	194.6	13.0	6.5
346	176.0	141.2	108.0	142.8	68.0	38.6
347	72.0	57.7	44.0	58.3	28.0	38.9

348	48.0	36.8	26.0	37.2	22.0	45.8
349	80.0	74.1	69.0	74.9	11.0	13.8
350	142.0	111.9	83.0	113.1	59.0	41.5
351	617.0	734.3	860.0	742.7	-243.0	-39.4
352	265.0	289.3	317.0	292.7	-52.0	-19.6
353	192.0	180.5	171.0	182.5	21.0	10.9
354	25.0	21.9	19.0	22.1	6.0	24.0
355	40.0	29.8	20.0	30.2	20.0	50.0
356	40.0	37.3	35.0	37.7	5.0	12.5
357	80.0	63.1	47.0	63.9	33.0	41.3
358	336.0	394.2	457.0	398.8	-121.0	-36.0
359	240.0	293.8	351.0	297.2	-111.0	-46.3
360	40.0	43.3	47.0	43.7	-7.0	-17.5
361	64.0	50.7	38.0	51.3	26.0	40.6
362	21.0	22.9	25.0	23.1	-4.0	-19.0
363	43.0	40.8	39.0	41.2	4.0	9.3
364	70.0	73.1	77.0	73.9	-7.0	-10.0
365	30.0	36.8	44.0	37.2	-14.0	-46.7
366	133.0	163.1	195.0	164.9	-62.0	-46.6
367	86.0	91.5	98.0	92.5	-12.0	-14.0
368	77.0	72.1	68.0	72.9	9.0	11.7
369	56.0	52.7	50.0	53.3	6.0	10.7
370	81.0	91.0	102.0	92.0	-21.0	-25.9
371	27.0	22.9	19.0	23.1	8.0	29.6
372	117.0	112.9	110.0	114.1	7.0	6.0
373	36.0	29.3	23.0	29.7	13.0	36.1
374	63.0	55.7	49.0	56.3	14.0	22.2
375	81.0	91.5	103.0	92.5	-22.0	-27.2
376	27.0	27.8	29.0	28.2	-2.0	-7.4
377	18.0	22.4	27.0	22.6	-9.0	-50.0
378	36.0	39.3	43.0	39.7	-7.0	-19.4
379	25.0	19.4	14.0	19.6	11.0	44.0
380	47.0	46.2	46.0	46.8	1.0	2.1
381	88.0	105.9	125.0	107.1	-37.0	-42.0
382	670.0	530.0	396.0	536.0	274.0	40.9
383	295.0	265.0	238.0	268.0	57.0	19.3
384	232.0	254.5	280.0	257.5	-48.0	-20.7
385	72.0	57.7	44.0	58.3	28.0	38.9
386	193.0	224.7	259.0	227.3	-66.0	-34.2
387	120.0	146.2	174.0	147.8	-54.0	-45.0
388	40.0	31.3	23.0	31.7	17.0	42.5
389	45.0	35.8	27.0	36.2	18.0	40.0
390	18.0	21.4	25.0	21.6	-7.0	-38.9
391	138.0	106.9	77.0	108.1	61.0	44.2
392	81.0	63.1	46.0	63.9	35.0	43.2
393	63.0	71.1	80.0	71.9	-17.0	-27.0
394	41.0	46.7	53.0	47.3	-12.0	-29.3
395	27.0	27.8	29.0	28.2	-2.0	-7.4
396	27.0	25.4	24.0	25.6	3.0	11.1
397	62.0	54.2	47.0	54.8	15.0	24.2
398	62.0	70.1	79.0	70.9	-17.0	-27.4
399.	27.0	32.8	39.0	33.2	-12.0	-44.4
400	133.0	99.9	68.0	101.1	65.0	48.9
401	45.0	36.3	28.0	36.7	17.0	37.8
402	24.0	29.8	36.0	30.2	-12.0	-50.0
403	40.0	36.3	33.0	36.7	7.0	17.5
404	32.0	38.8	46.0	39.2	-14.0	-43.8
405	40.0	36.8	34.0	37.2	6.0	15.0
406	64.0	71.6	80.0	72.4	-16.0	-25.0
407	104.0	82.5	62.0	83.5	42.0	40.4
408	24.0	24.9	26.0	25.1	-2.0	-8.3

409	87.0	93.5	101.0	94.5	-14.0	-16.1
410	56.0	53.2	51.0	53.8	5.0	8.9
411	24.0	27.3	31.0	27.7	-7.0	-29.2
412	24.0	28.8	34.0	29.2	-10.0	-41.7
413	32.0	24.4	17.0	24.6	15.0	46.9
414	64.0	72.1	81.0	72.9	-17.0	-26.6
415	168.0	155.6	145.0	157.4	23.0	13.7
416	136.0	103.4	72.0	104.6	64.0	47.1
417	56.0	51.7	48.0	52.3	8.0	14.3
418	96.0	102.9	111.0	104.1	-15.0	-15.6
419	88.0	82.0	77.0	83.0	11.0	12.5
420	32.0	25.4	19.0	25.6	13.0	40.6
421	40.0	30.8	22.0	31.2	18.0	45.0
422	32.0	24.9	18.0	25.1	14.0	43.8
423	24.0	24.4	25.0	24.6	-1.0	-4.2
424	48.0	37.3	27.0	37.7	21.0	43.8
425	784.0	880.5	987.0	890.5	-203.0	-25.9
426	216.0	185.4	157.0	187.6	59.0	27.3
427	176.0	217.3	261.0	219.7	-85.0	-48.3
428	197.0	151.6	108.0	153.4	89.0	45.2
429	1521.0	1584.9	1667.0	1603.1	-148.0	-9.6
430	772.0	889.9	1018.0	900.1	-246.0	-31.9
431	254.0	252.6	254.0	255.4	0.0	0.0
432	49.0	47.7	47.0	48.3	2.0	4.1
433	80.0	72.6	66.0	73.4	14.0	17.5
434	832.0	626.4	428.0	633.6	404.0	48.6
435	400.0	338.6	281.0	342.4	119.0	29.7
436	168.0	136.7	107.0	138.3	61.0	36.3
437	25.0	24.9	25.0	25.1	0.0	0.0
438	71.0	70.6	71.0	71.4	0.0	0.0
439	32.0	28.8	26.0	29.2	6.0	18.7
440	64.0	70.6	78.0	71.4	-14.0	-21.9
441	48.0	57.2	67.0	57.8	-19.0	-39.6
442	40.0	48.2	57.0	48.8	-17.0	-42.5
443	24.0	25.9	28.0	26.1	-4.0	-16.7
444	103.0	80.0	58.0	81.0	45.0	43.7
445	128.0	128.8	131.0	130.2	-3.0	-2.3
446	32.0	26.3	21.0	26.7	11.0	34.4
447	47.0	56.7	67.0	57.3	-20.0	-42.6
448	31.0	38.3	46.0	38.7	-15.0	-49.4
449	34.0	40.3	47.0	40.7	-13.0	-38.2
450	32.0	23.9	16.0	24.1	16.0	50.0
451	70.0	74.6	80.0	75.4	-10.0	-14.3
452	49.0	36.8	25.0	37.2	24.0	49.0
453	91.0	94.5	99.0	95.5	-8.0	-8.8
454	28.0	27.8	28.0	28.2	0.0	0.0
455	308.0	358.0	412.0	362.0	-104.0	-33.8
456	49.0	60.2	72.0	60.8	-23.0	-46.9
457	56.0	46.7	38.0	47.3	18.0	32.1
458	147.0	115.8	86.0	117.2	61.0	41.5
459	429.0	460.9	498.0	466.1	-69.0	-16.1
460	231.0	184.9	141.0	187.1	90.0	39.0
461	267.0	303.8	344.0	307.2	-77.0	-29.8
462	28.0	33.3	39.0	33.7	-11.0	-39.3
463	21.0	23.9	27.0	24.1	-6.0	-28.6
464	28.0	25.9	24.0	26.1	4.0	14.3
465	105.0	89.5	75.0	90.5	30.0	28.6
466	56.0	45.7	36.0	46.3	20.0	35.7
467	2114.0	1912.6	1733.0	1934.4	381.0	19.0
468	849.0	1007.2	1177.0	1018.8	-328.0	-38.6
469	549.0	658.7	776.0	666.3	-227.0	-41.3

470	44.0	51.7	60.0	52.3	-16.0	-34.4
471	28.0	22.9	18.0	23.1	10.0	35.7
472	88.0	95.0	103.0	96.0	-15.0	-17.0
473	88.0	105.9	125.0	107.1	-37.0	-42.0
474	88.0	107.9	129.0	109.1	-41.0	-46.6
475	25.0	24.9	25.0	25.1	0.0	0.0
476	64.0	54.2	45.0	54.8	19.0	29.7
477	21.0	25.4	30.0	25.6	-9.0	-42.9
478	21.0	23.4	26.0	23.6	-5.0	-23.8
479	28.0	20.9	14.0	21.1	14.0	50.0
480	56.0	52.2	49.0	52.8	7.0	12.5
481	28.0	26.8	26.0	27.2	2.0	7.1
482	28.0	24.9	22.0	25.1	6.0	21.4
483	32.0	28.3	25.0	28.7	7.0	21.9
484	32.0	26.8	22.0	27.2	10.0	31.3
485	24.0	27.3	31.0	27.7	-7.0	-29.2
486	40.0	49.2	59.0	49.8	-19.0	-47.5
487	32.0	30.8	30.0	31.2	2.0	6.3
488	40.0	30.3	21.0	30.7	19.0	47.5
489	256.0	264.5	276.0	267.5	-20.0	-7.8
490	72.0	62.6	54.0	63.4	18.0	25.0
491	30.0	37.3	45.0	37.7	-15.0	-50.0
492	30.0	29.8	30.0	30.2	0.0	0.0
493	30.0	27.8	26.0	28.2	4.0	13.3
494	140.0	157.1	176.0	158.9	-36.0	-25.7
495	26.0	19.9	14.0	20.1	12.0	46.2
496	53.0	45.7	39.0	46.3	14.0	26.4
497	36.0	31.3	27.0	31.7	9.0	25.0
498	45.0	41.8	39.0	42.2	6.0	13.3
499	252.0	252.1	255.0	254.9	-3.0	-1.2
500	36.0	36.8	38.0	37.2	-2.0	-5.6
501	28.0	26.3	25.0	26.7	3.0	10.7
502	32.0	25.9	20.0	26.1	12.0	37.5
503	80.0	65.6	52.0	66.4	28.0	35.0
504	48.0	44.7	42.0	45.3	6.0	12.5
505	65.0	52.2	40.0	52.8	25.0	38.5
506	25.0	30.8	37.0	31.2	-12.0	-48.0
507	24.0	26.3	29.0	26.7	-5.0	-20.8
508	24.0	25.4	27.0	25.6	-3.0	-12.5
509	144.0	151.6	161.0	153.4	-17.0	-11.8
510	144.0	144.7	147.0	146.3	-3.0	-2.1
511	72.0	72.6	74.0	73.4	-2.0	-2.8
512	64.0	78.1	93.0	78.9	-29.0	-45.3
513	280.0	312.2	348.0	315.8	-68.0	-24.3
514	72.0	60.2	49.0	60.8	23.0	31.9

AVERAGE DIFFERENCE IN OBS. FREQ. = 21.6
 AVERAGE PERCENTAGE DIFFERENCE = 26.6
 ROOT MEAN SQUARE ERROR = 47.90
 T-VALUE FOR PAIRED COMPARISON = -4.45

RAW CHI-SQUARE = 1936.041 WITH 513 DEGREES OF FREEDOM

T-VALUE = 30.210

CUT-OFF VALUE = 100.000 (GLATDS vs Directory, Zone-Zone)

THERE ARE 105 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 26086
OTHER SURVEY TOTAL = 27461

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCI.DIFF.
1	234.0	280.6	342.0	295.4	-108.0	-46.2
2	63.0	82.3	106.0	86.7	-43.0	-68.3
3	192.0	183.7	185.0	193.3	7.0	3.6
4	72.0	96.5	126.0	101.5	-54.0	-75.0
5	120.0	87.7	60.0	92.3	60.0	50.0
6	112.0	132.5	160.0	139.5	-48.0	-42.9
7	96.0	105.7	121.0	111.3	-25.0	-26.0
8	150.0	114.5	85.0	120.5	65.0	43.3
9	180.0	155.4	139.0	163.6	41.0	22.8
10	69.0	90.1	116.0	94.9	-47.0	-68.1
11	91.0	116.9	149.0	123.1	-58.0	-63.7
12	88.0	96.5	110.0	101.5	-22.0	-25.0
13	248.0	244.1	253.0	256.9	5.0	2.0
14	117.0	135.4	161.0	142.6	-44.0	-37.6
15	192.0	224.1	268.0	235.9	-76.0	-39.6
16	396.0	364.9	353.0	384.1	43.0	10.9
17	450.0	348.3	265.0	366.7	185.0	41.1
18	281.0	305.0	345.0	321.0	-64.0	-22.8
19	88.0	96.5	110.0	101.5	-22.0	-25.0
20	168.0	163.2	167.0	171.8	1.0	.6
21	162.0	215.3	280.0	226.7	-118.0	-72.8
22	133.0	108.6	90.0	114.4	43.0	32.3
23	90.0	100.8	117.0	106.2	-27.0	-30.0
24	104.0	125.7	154.0	132.3	-50.0	-48.1
25	104.0	135.9	175.0	143.1	-71.0	-68.3
26	192.0	185.1	188.0	174.9	4.0	2.1
27	328.0	274.8	236.0	289.2	92.0	28.0
28	88.0	105.7	129.0	111.3	-41.0	-46.6
29	168.0	114.5	67.0	120.5	101.0	60.1
30	100.0	86.2	77.0	90.8	23.0	23.0
31	360.0	407.8	477.0	429.2	-117.0	-32.3
32	288.0	362.0	455.0	381.0	-167.0	-58.0
33	408.0	373.7	359.0	393.3	49.0	12.0
34	528.0	703.5	916.0	740.5	-388.0	-73.3
35	456.0	365.4	294.0	384.6	162.0	35.3
36	96.0	121.3	153.0	127.7	-57.0	-59.9
37	616.0	402.4	210.0	423.6	406.0	65.9
38	110.0	86.7	68.0	91.3	42.0	38.2
39	233.0	266.0	313.0	280.0	-80.0	-34.3
40	124.0	137.9	159.0	145.1	-35.0	-28.2
41	72.0	95.0	123.0	100.0	-51.0	-70.8
42	104.0	78.4	57.0	82.6	47.0	45.2

43	72.0	89.6	112.0	94.4	-40.0	-55.6
44	88.0	108.1	134.0	113.9	-46.0	-52.3
45	154.0	126.7	106.0	133.3	48.0	31.2
46	126.0	134.9	155.0	144.1	-29.0	-23.0
47	64.0	80.4	101.0	84.6	-37.0	-57.8
48	200.0	185.6	181.0	195.4	19.0	9.5
49	176.0	121.8	74.0	128.2	102.0	58.0
50	142.0	95.0	53.0	100.0	89.0	62.7
51	617.0	778.5	981.0	819.5	-364.0	-59.0
52	265.0	296.2	343.0	311.8	-78.0	-29.4
53	192.0	171.5	160.0	180.5	32.0	16.7
54	336.0	416.0	518.0	438.0	-182.0	-54.2
55	240.0	315.2	407.0	331.8	-167.0	-69.6
56	133.0	175.4	227.0	184.6	-94.0	-70.7
57	86.0	93.0	105.0	98.0	-19.0	-22.1
58	81.0	94.0	112.0	99.0	-31.0	-38.3
59	117.0	108.6	106.0	114.4	11.0	9.4
60	81.0	95.5	115.0	100.5	-34.0	-42.0
61	88.0	113.0	144.0	119.0	-56.0	-63.6
62	670.0	452.6	259.0	476.4	411.0	61.3
63	295.0	246.0	210.0	259.0	85.0	28.8
64	232.0	261.1	304.0	274.9	-72.0	-31.0
65	193.0	236.3	292.0	248.7	-99.0	-51.3
66	120.0	156.4	201.0	164.6	-81.0	-67.5
67	138.0	90.1	47.0	94.9	91.0	65.9
68	133.0	81.8	35.0	86.2	98.0	73.7
69	104.0	70.2	40.0	73.8	64.0	61.5
70	87.0	95.0	108.0	100.0	-21.0	-24.1
71	168.0	146.6	133.0	154.4	35.0	20.8
72	136.0	85.3	39.0	89.7	97.0	71.3
73	96.0	104.7	119.0	110.3	-23.0	-24.0
74	784.0	912.0	1088.0	960.0	-304.0	-38.8
75	216.0	167.6	128.0	176.4	88.0	40.7
76	176.0	233.8	304.0	246.2	-128.0	-72.7
77	197.0	126.7	63.0	133.3	134.0	68.0
78	1521.0	1589.1	1739.0	1671.9	-218.0	-14.3
79	772.0	931.5	1140.0	980.5	-368.0	-47.7
80	254.0	248.0	255.0	261.0	-1.0	-0.6
81	832.0	515.9	227.0	543.1	605.0	72.7
82	400.0	303.0	222.0	319.0	178.0	44.5
83	168.0	118.9	76.0	125.1	92.0	54.8
84	103.0	67.7	36.0	71.3	67.0	65.0
85	128.0	126.7	132.0	133.3	-4.0	-3.1
86	91.0	94.5	103.0	99.5	-12.0	-13.2
87	308.0	375.6	463.0	395.4	-155.0	-50.3
88	147.0	98.4	55.0	103.6	92.0	62.6
89	429.0	468.6	533.0	493.4	-104.0	-24.2
90	231.0	159.3	96.0	167.7	135.0	58.4
91	267.0	316.7	383.0	333.3	-116.0	-43.4
92	105.0	80.9	61.0	85.1	44.0	41.9
93	2114.0	1781.1	1542.0	1874.9	572.0	27.1
94	849.0	1066.9	1341.0	1123.1	-492.0	-59.0
95	540.0	700.5	889.0	737.5	-340.0	-61.9
96	88.0	96.5	110.0	101.5	-22.0	-25.0
97	88.0	112.5	143.0	118.5	-55.0	-62.5
98	88.0	115.9	150.0	122.1	-62.0	-70.5
99	256.0	264.0	286.0	278.0	-30.0	-11.7
100	140.0	162.7	194.0	171.3	-54.0	-38.6
101	252.0	248.0	257.0	261.0	5.0	2.0
102	144.0	152.5	169.0	160.5	-75.0	-17.4
103	144.0	142.3	148.0	149.7	-4.0	-2.8

104	64.0	83.3	107.0	87.7	-43.0	-67.4
105	280.0	322.5	382.0	339.5	-102.0	-36.4

AVERAGE DIFFERENCE IN ORS. FREQ. = 100.0
 AVERAGE PERCENTAGE DIFFERENCE = 41.7
 ROOT MEAN SQUARE ERROR = 154.88
 T-VALUE FOR PAIRED COMPARISON = -.87

RAW CHI-SQUARE = 2815.068 WITH 104 DEGREES OF FREEDOM

T-VALUE = 60.647

CUT-OFF VALUE = 50.000 (GLATDS vs Directory, Zone-Zone)

THERE ARE 253 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 34524
OTHR SURVEY TOTAL = 36062

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF.	PCI.DIFF.
1	61.0	69.5	81.0	72.5	-20.0	-32.8
2	90.0	89.0	92.0	93.0	-2.0	-2.2
3	48.0	50.9	56.0	53.1	-8.0	-16.7
4	72.0	65.5	62.0	68.5	-10.0	13.9
5	58.0	43.0	30.0	45.0	28.0	48.3
6	64.0	47.4	33.0	49.6	31.0	48.4
7	56.0	65.5	78.0	68.5	-22.0	-39.3
8	61.0	43.5	28.0	45.5	33.0	54.1
9	234.0	281.7	342.0	294.3	-108.0	-46.2
10	81.0	74.3	71.0	77.7	10.0	12.3
11	63.0	82.7	106.0	86.3	-43.0	-68.3
12	192.0	184.4	185.0	192.6	7.0	3.6
13	56.0	43.5	33.0	45.5	23.0	41.1
14	41.0	46.5	54.0	48.5	-13.0	-31.7
15	48.0	64.1	83.0	66.9	-35.0	-72.9
16	40.0	51.4	65.0	53.6	-25.0	-62.5
17	72.0	94.8	126.0	101.2	-54.0	-75.0
18	48.0	62.1	79.0	64.9	-31.0	-64.6
19	120.0	88.0	60.0	92.0	60.0	50.0
20	112.0	133.0	160.0	139.0	-48.0	-42.9
21	96.0	106.1	121.0	110.9	-25.0	-26.0
22	88.0	83.1	82.0	86.9	6.0	6.8
23	48.0	60.6	76.0	63.4	-28.0	-58.3
24	48.0	57.2	69.0	59.8	-21.0	-43.8
25	70.0	82.2	98.0	85.8	-28.0	-40.0
26	150.0	114.9	85.0	120.1	65.0	43.3
27	50.0	45.5	43.0	47.5	7.0	14.0
28	58.0	66.0	77.0	69.0	-19.0	-32.8
29	50.0	63.6	80.0	66.4	-30.0	-60.0
30	84.0	76.8	73.0	80.2	11.0	13.1
31	65.0	59.2	56.0	61.8	9.0	13.8
32	45.0	60.2	78.0	62.8	-33.0	-73.3
33	50.0	59.7	63.0	62.3	-4.0	-6.8
34	53.0	42.6	34.0	44.4	19.0	35.8
35	72.0	55.8	42.0	58.2	30.0	41.7
36	45.0	51.8	61.0	54.2	-16.0	-35.6
37	81.0	55.3	32.0	57.7	49.0	60.5
38	180.0	156.0	139.0	163.0	41.0	22.8
39	63.0	52.3	44.0	54.7	19.0	30.2
40	65.0	50.4	38.0	52.6	27.0	41.5
41	30.0	40.1	52.0	41.9	-22.0	-73.3
42	56.0	48.9	44.0	51.1	12.0	21.4

43	32.0	41.1	52.0	42.9	-20.0	-62.5
44	96.0	79.2	66.0	82.8	30.0	31.3
45	69.0	90.5	116.0	94.5	-47.0	-68.1
46	36.0	45.0	56.0	47.0	-20.0	-55.6
47	45.0	53.3	64.0	55.7	-19.0	-42.2
48	62.0	54.8	50.0	57.2	12.0	19.6
49	54.0	61.6	72.0	64.4	-18.0	-33.3
50	54.0	33.3	14.0	34.7	40.0	74.1
51	91.0	117.4	149.0	122.6	-58.0	-63.7
52	64.0	71.9	83.0	75.1	-19.0	-29.7
53	56.0	59.2	65.0	61.8	-9.0	-16.1
54	88.0	96.8	110.0	101.2	-22.0	-25.0
55	56.0	46.5	39.0	48.5	17.0	30.4
56	48.0	52.8	60.0	55.2	-12.0	-25.0
57	248.0	245.0	253.0	256.0	-5.0	-2.0
58	40.0	50.9	64.0	53.1	-24.0	-60.0
59	56.0	35.7	17.0	37.3	39.0	69.6
60	97.0	88.5	84.0	92.5	13.0	13.4
61	117.0	136.0	161.0	142.0	-44.0	-37.5
62	48.0	49.4	53.0	51.6	-5.0	-10.4
63	192.0	225.0	268.0	235.0	-76.0	-39.6
64	90.0	64.6	42.0	67.4	48.0	53.3
65	36.0	44.5	55.0	46.5	-19.0	-52.8
66	44.0	56.2	71.0	58.8	-27.0	-61.4
67	35.0	45.5	58.0	47.5	-23.0	-65.7
68	63.0	54.3	48.0	56.7	15.0	23.8
69	396.0	366.3	353.0	382.7	43.0	10.9
70	36.0	46.5	59.0	48.5	-23.0	-63.9
71	98.0	88.5	91.0	92.5	-1.0	-1.1
72	54.0	43.5	35.0	45.5	19.0	35.2
73	45.0	47.4	52.0	49.6	-7.0	-15.6
74	450.0	349.7	265.0	365.3	185.0	41.1
75	48.0	54.3	63.0	56.7	-15.0	-31.3
76	40.0	46.0	54.0	48.0	-14.0	-35.0
77	281.0	306.2	345.0	319.8	-64.0	-22.8
78	40.0	51.4	65.0	53.6	-25.0	-62.5
79	56.0	65.1	77.0	67.9	-21.0	-37.5
80	88.0	96.8	110.0	101.2	-22.0	-25.0
81	40.0	47.0	56.0	49.0	-16.0	-40.0
82	40.0	53.3	69.0	55.7	-29.0	-72.5
83	168.0	163.9	167.0	171.1	1.0	6.6
84	63.0	59.7	59.0	62.3	4.0	6.3
85	162.0	216.2	280.0	225.8	-118.0	-72.8
86	60.0	42.1	26.0	43.9	34.0	56.7
87	80.0	87.1	98.0	90.9	-18.0	-22.5
88	40.0	46.0	54.0	48.0	-14.0	-35.0
89	133.0	109.1	90.0	113.9	43.0	32.3
90	90.0	101.2	117.0	105.8	-27.0	-30.0
91	104.0	126.2	154.0	131.8	-50.0	-48.1
92	64.0	65.5	70.0	68.5	-6.0	-9.4
93	56.0	60.6	68.0	63.4	-12.0	-21.4
94	56.0	50.4	47.0	52.6	9.0	16.1
95	64.0	74.8	89.0	78.2	-25.0	-39.1
96	80.0	75.3	74.0	78.7	6.0	7.5
97	104.0	136.5	175.0	142.5	-71.0	-68.3
98	192.0	185.9	188.0	194.1	4.0	2.1
99	32.0	40.6	51.0	42.4	-19.0	-59.4
100	40.0	45.5	53.0	47.5	-13.0	-32.5
101	328.0	275.9	235.0	288.1	92.0	28.0
102	40.0	44.5	51.0	46.5	-11.0	-27.5
103	40.0	46.0	54.0	48.0	-14.0	-35.0

104	40.0	47.9	58.0	50.1	-18.0	-45.0
105	88.0	106.1	129.0	110.9	-41.0	-46.6
106	108.0	114.9	67.0	120.1	101.0	60.1
107	90.0	20.7	75.0	84.3	15.0	16.7
108	100.0	86.6	77.0	90.4	23.0	23.0
109	60.0	48.4	39.0	50.6	21.0	35.0
110	72.0	71.9	75.0	75.1	-3.0	-4.2
111	360.0	409.4	477.0	427.6	-117.0	-32.5
112	73.0	47.5	65.0	70.5	8.0	11.0
113	288.0	363.4	455.0	379.6	-167.0	-58.0
114	32.0	41.1	52.0	42.9	-20.0	-62.5
115	64.0	55.3	49.0	57.7	15.0	23.4
116	32.0	40.1	50.0	41.9	-18.0	-56.3
117	408.0	375.1	359.0	391.9	49.0	12.0
118	528.0	706.3	916.0	737.7	-368.0	-73.5
119	40.0	50.9	64.0	53.1	-24.0	-60.0
120	64.0	64.6	68.0	67.4	-4.0	-6.3
121	64.0	49.9	38.0	52.1	26.0	40.6
122	48.0	49.9	54.0	52.1	-6.0	-12.5
123	72.0	63.6	58.0	66.4	14.0	19.4
124	456.0	366.8	294.0	383.2	162.0	35.5
125	40.0	50.9	64.0	53.1	-24.0	-60.0
126	96.0	121.8	153.0	127.2	-57.0	-59.4
127	616.0	404.0	210.0	422.0	406.0	65.9
128	56.0	52.3	51.0	54.7	5.0	8.9
129	64.0	50.4	39.0	52.6	25.0	39.1
130	110.0	87.1	68.0	90.9	42.0	38.2
131	233.0	267.1	313.0	278.9	-80.0	-34.3
132	36.0	47.9	62.0	50.1	-26.0	-72.2
133	124.0	139.4	159.0	144.6	-35.0	-28.2
134	63.0	78.7	98.0	82.3	-35.0	-55.6
135	58.0	51.4	47.0	53.6	11.0	19.0
136	72.0	95.4	123.0	99.6	-51.0	-70.8
137	40.0	45.0	52.0	47.0	-12.0	-30.0
138	104.0	79.7	57.0	82.3	47.0	45.2
139	48.0	53.8	62.0	56.2	-14.0	-20.2
140	32.0	41.6	53.0	43.4	-21.0	-65.6
141	72.0	69.5	70.0	72.5	2.0	2.8
142	72.0	90.0	112.0	94.0	-40.0	-55.6
143	96.0	94.9	98.0	99.1	-2.0	-2.1
144	64.0	42.6	23.0	44.4	41.0	64.1
145	88.0	108.6	134.0	113.4	-46.0	-52.3
146	154.0	127.2	106.0	132.8	48.0	31.2
147	126.0	137.4	155.0	143.6	-29.0	-23.0
148	40.0	48.9	60.0	51.1	-20.0	-50.0
149	41.0	47.9	57.0	50.1	-16.0	-39.0
150	64.0	80.7	101.0	84.3	-37.0	-57.8
151	200.0	186.3	181.0	194.7	19.0	9.5
152	176.0	122.3	74.0	127.7	102.0	58.0
153	72.0	49.9	30.0	52.1	42.0	58.3
154	80.0	70.4	64.0	73.6	16.0	20.0
155	142.0	95.4	53.0	99.6	89.0	62.7
156	617.0	781.6	981.0	816.4	-364.0	-59.0
157	265.0	297.4	343.0	310.6	-78.0	-29.4
158	192.0	172.2	160.0	179.8	32.0	16.7
159	80.0	54.3	31.0	56.7	49.0	61.3
160	336.0	417.7	518.0	436.3	-182.0	-54.2
161	240.0	316.5	407.0	330.5	-167.0	-69.6
162	40.0	44.5	51.0	46.5	-11.0	-27.5
163	64.0	43.5	25.0	45.5	39.0	60.9
164	70.0	73.4	80.0	76.6	-10.0	-14.3

145	30.0	39.6	51.0	41.4	-21.0	-70.0
146	133.0	176.1	227.0	183.9	-94.0	-70.7
147	84.0	93.4	105.0	97.6	-19.0	-22.1
148	77.0	48.5	63.0	71.5	14.0	18.2
149	56.0	50.4	47.0	52.6	9.0	16.1
170	81.0	94.4	112.0	98.6	-31.0	-38.3
171	117.0	109.1	106.0	113.9	11.0	9.4
172	63.0	51.4	42.0	53.6	21.0	33.3
173	81.0	95.9	115.0	100.1	-34.0	-42.0
174	88.0	113.5	144.0	118.5	-56.0	-63.6
175	670.0	454.4	259.0	474.6	411.0	61.3
176	295.0	247.0	210.0	258.0	85.0	28.8
177	232.0	262.2	304.0	273.8	-72.0	-31.0
178	72.0	50.4	31.0	52.6	41.0	56.9
179	193.0	217.2	292.0	247.8	-99.0	-51.3
180	120.0	157.0	201.0	164.0	-81.0	-67.5
181	138.0	90.5	47.0	94.5	91.0	65.9
182	81.0	53.8	29.0	56.2	52.0	64.2
183	63.0	74.3	89.0	77.7	-26.0	-41.3
184	41.0	48.9	59.0	51.1	-18.0	-43.9
185	62.0	49.4	39.0	51.6	23.0	37.1
186	62.0	72.9	87.0	76.1	-25.0	-40.3
187	133.0	82.2	35.0	85.8	98.0	73.7
188	32.0	41.6	53.0	43.4	-21.0	-65.6
189	64.0	74.3	88.0	77.7	-24.0	-37.5
190	104.0	70.4	40.0	73.6	64.0	61.5
191	87.0	95.4	108.0	99.6	-21.0	-24.1
192	56.0	51.4	49.0	53.6	7.0	12.5
193	64.0	75.3	90.0	78.7	-26.0	-40.6
194	169.0	147.2	133.0	153.8	35.0	20.8
195	136.0	85.6	39.0	89.4	97.0	71.3
196	56.0	49.4	45.0	51.6	11.0	19.6
197	96.0	105.2	119.0	109.8	-23.0	-24.0
198	82.0	78.3	72.0	81.7	16.0	18.2
199	784.0	915.6	1088.0	956.4	-304.0	-38.8
200	216.0	168.3	128.0	175.7	88.0	40.7
201	176.0	234.8	304.0	245.2	-128.0	-72.7
202	197.0	127.2	63.0	132.8	134.0	68.0
203	1521.0	1594.5	1739.0	1665.5	-218.0	-14.3
204	772.0	935.2	1140.0	976.8	-368.0	-47.7
205	254.0	249.0	255.0	260.0	-1.0	-4.4
206	80.0	68.5	60.0	71.5	20.0	25.0
207	832.0	518.0	227.0	541.0	605.0	72.7
208	400.0	304.2	222.0	317.8	178.0	44.5
209	168.0	119.3	76.0	124.7	92.0	54.8
210	71.0	69.5	71.0	72.5	0.0	0.0
211	64.0	73.4	86.0	76.6	-22.0	-34.4
212	48.0	40.6	76.0	63.4	-28.0	-59.3
213	40.0	51.4	65.0	53.6	-25.0	-62.5
214	103.0	68.0	36.0	71.0	67.0	65.0
215	128.0	127.2	132.0	132.8	-4.0	-3.1
216	47.0	60.6	77.0	63.4	-30.0	-63.0
217	31.0	41.6	54.0	43.4	-23.0	-74.2
218	34.0	43.0	54.0	45.0	-20.0	-58.0
219	70.0	75.8	85.0	79.2	-15.0	-21.4
220	91.0	94.9	103.0	99.1	-12.0	-13.2
221	308.0	377.1	463.0	393.9	-155.0	-50.3
222	49.0	65.1	84.0	67.9	-35.0	-71.4
223	56.0	41.6	29.0	43.4	27.0	48.2
224	147.0	98.8	55.0	103.2	92.0	62.6
225	429.0	470.5	533.0	491.5	-104.0	-24.2

226	231.0	159.9	96.0	167.1	135.0	58.4
227	267.0	317.9	383.0	332.1	-116.0	-43.4
228	105.0	81.2	61.0	84.8	44.0	41.9
229	56.0	40.1	26.0	41.9	30.0	53.6
230	2114.0	1788.2	1542.0	1867.8	572.0	27.1
231	849.0	1071.1	1341.0	1118.9	-492.0	-58.0
232	549.0	703.3	889.0	734.7	-340.0	-61.9
233	44.0	54.3	67.0	56.7	-23.0	-52.3
234	88.0	96.8	110.0	101.2	-22.0	-25.0
235	88.0	113.0	143.0	118.0	-55.0	-62.5
236	88.0	116.4	150.0	121.6	-62.0	-70.5
237	64.0	48.9	36.0	51.1	28.0	43.8
238	56.0	49.4	45.0	51.6	11.0	19.6
239	40.0	52.8	68.0	55.2	-28.0	-70.0
240	256.0	265.1	286.0	276.9	-30.0	-11.7
241	72.0	57.2	45.0	59.8	27.0	37.5
242	30.0	40.1	52.0	41.9	-22.0	-73.3
243	140.0	163.4	194.0	170.6	-54.0	-38.6
244	53.0	42.1	33.0	43.9	20.0	37.7
245	252.0	249.0	257.0	260.0	-5.0	-2.0
246	80.0	57.7	38.0	60.3	42.0	52.5
247	65.0	45.0	27.0	47.0	38.0	58.5
248	144.0	153.1	169.0	159.9	-25.0	-17.4
249	144.0	142.8	148.0	149.2	-4.0	-2.8
250	72.0	71.9	75.0	75.1	-3.0	-4.2
251	64.0	83.6	107.0	87.4	-43.0	-67.2
252	280.0	323.8	382.0	338.2	-102.0	-36.4
253	72.0	53.3	37.0	55.7	35.0	48.6

AVERAGE DIFFERENCE IN ORS. FREQ. = 53.3
 AVERAGE PERCENTAGE DIFFERENCE = 39.8
 ROOT MEAN SQUARE ERROR = 101.30
 T-VALUE FOR PAIRED COMPARISON = -.95

RAW CHI-SQUARE = 3548.401 WITH 252 DEGREES OF FREEDOM

T-VALUE = 61.813

CUT-OFF VALUE = 25.000 (GLATDS vs Directory, Zone-Zone)

THERE ARE 548 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 43235
OTHER SURVEY TOTAL = 44292

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCL.DIFF
1	27.0	34.6	43.0	35.4	-16.0	-59.3
2	27.0	33.1	40.0	33.9	-13.0	-48.1
3	61.0	70.1	81.0	71.9	-20.0	-32.8
4	19.0	23.7	29.0	24.3	-10.0	-52.6
5	90.0	89.9	92.0	92.1	-2.0	-2.2
6	48.0	51.4	56.0	52.6	-8.0	-16.7
7	72.0	66.2	62.0	67.8	10.0	13.9
8	58.0	47.5	30.0	44.5	28.0	49.3
9	64.0	47.9	33.0	49.1	31.0	49.4
10	56.0	66.2	78.0	67.8	-22.0	-39.3
11	27.0	19.3	12.0	19.7	15.0	55.6
12	35.0	38.0	42.0	39.0	-7.0	-20.0
13	61.0	44.0	28.0	45.0	33.0	54.1
14	27.0	26.7	27.0	27.3	0.0	0.0
15	234.0	284.5	342.0	291.5	-108.0	-46.2
16	27.0	28.2	30.0	28.8	-3.0	-11.1
17	81.0	75.1	71.0	76.9	10.0	12.3
18	42.0	27.7	14.0	28.3	28.0	66.7
19	63.0	81.5	106.0	85.5	-43.0	-68.3
20	27.0	35.1	44.0	35.9	-17.0	-63.0
21	17.0	21.2	26.0	21.8	-9.0	-52.9
22	27.0	19.3	12.0	19.7	15.0	55.6
23	32.0	28.6	26.0	29.4	6.0	19.7
24	40.0	32.6	26.0	33.4	14.0	35.0
25	192.0	184.2	185.0	190.8	7.0	3.6
26	56.0	44.0	33.0	45.0	23.0	41.1
27	48.0	33.6	20.0	34.4	28.0	58.3
28	24.0	26.7	30.0	27.3	-6.0	-25.0
29	48.0	36.6	26.0	37.4	22.0	45.8
30	41.0	44.9	56.0	48.1	-13.0	-31.7
31	24.0	28.2	33.0	28.8	-9.0	-37.5
32	48.0	64.7	83.0	66.3	-35.0	-72.9
33	16.0	20.3	25.0	20.7	-9.0	-56.3
34	32.0	36.6	42.0	37.4	-10.0	-31.3
35	40.0	32.1	25.0	32.9	15.0	37.5
36	24.0	32.1	41.0	32.9	-17.0	-70.8
37	24.0	26.7	30.0	27.3	-6.0	-25.0
38	40.0	51.9	65.0	53.1	-25.0	-62.5
39	16.0	20.3	25.0	20.7	-9.0	-56.3
40	25.0	27.2	30.0	27.8	-5.0	-20.0
41	32.0	24.7	18.0	25.3	14.0	43.8
42	72.0	97.8	126.0	100.2	-54.0	-75.0

43	40.0	39.5	38.0	39.5	2.0	5.5
44	32.0	39.5	46.0	39.5	-14.0	-43.5
45	48.0	29.6	12.0	30.4	36.0	75.5
46	48.0	62.7	79.0	64.3	-31.0	-64.5
47	40.0	33.1	27.0	33.9	13.0	32.5
48	120.0	88.9	60.0	91.1	60.0	50.5
49	112.0	134.4	160.0	137.6	-48.0	-42.5
50	32.0	33.1	35.0	33.9	-3.0	-9.5
51	40.0	26.2	13.0	26.8	27.0	67.5
52	96.0	107.2	121.0	109.8	-25.0	-26.5
53	49.0	46.9	46.0	48.1	3.0	6.1
54	24.0	30.1	37.0	30.9	-13.0	-54.5
55	32.0	39.0	47.0	40.0	-15.0	-46.5
56	24.0	32.1	41.0	32.9	-17.0	-70.5
57	88.0	84.0	82.0	86.0	6.0	6.5
58	48.0	61.3	76.0	62.7	-28.0	-58.5
59	24.0	28.2	33.0	28.8	-9.0	-37.5
60	32.0	39.0	47.0	40.0	-15.0	-46.5
61	48.0	57.8	69.0	59.2	-21.0	-43.5
62	70.0	83.0	98.0	85.0	-28.0	-40.0
63	30.0	27.2	25.0	27.8	5.0	16.7
64	150.0	116.1	85.0	118.9	65.0	43.3
65	50.0	45.9	43.0	47.1	7.0	14.0
66	20.0	26.7	34.0	27.3	-14.0	-70.5
67	30.0	23.7	18.0	24.3	12.0	40.0
68	30.0	24.7	20.0	25.3	10.0	33.3
69	58.0	66.7	77.0	68.3	-19.0	-32.8
70	50.0	64.2	80.0	65.8	-30.0	-60.0
71	20.0	24.7	34.0	27.3	-14.0	-70.0
72	32.0	40.0	49.0	41.0	-17.0	-53.1
73	32.0	24.7	18.0	25.3	14.0	43.8
74	48.0	38.0	29.0	39.0	19.0	39.5
75	40.0	42.5	46.0	43.5	-6.0	-15.0
76	88.0	77.6	73.0	79.4	11.0	13.1
77	24.0	24.2	29.0	26.8	-5.0	-20.8
78	65.0	59.8	56.0	61.2	9.0	13.8
79	24.0	31.1	39.0	31.9	-15.0	-62.5
80	24.0	28.6	34.0	29.4	-10.0	-41.7
81	45.0	60.8	78.0	62.2	-33.0	-73.3
82	18.0	23.7	30.0	24.3	-12.0	-66.7
83	38.0	32.1	29.0	32.9	7.0	19.5
84	59.0	60.3	63.0	61.7	-4.0	-6.8
85	28.0	33.6	40.0	34.4	-12.0	-42.5
86	53.0	43.0	34.0	44.0	19.0	35.8
87	18.0	24.2	31.0	24.8	-13.0	-72.2
88	26.0	26.7	28.0	27.3	-2.0	-7.7
89	35.0	23.7	13.0	24.3	22.0	62.5
90	17.0	22.2	28.0	22.8	-11.0	-64.7
91	27.0	17.3	8.0	17.7	19.0	70.5
92	72.0	56.3	42.0	57.7	30.0	41.7
93	36.0	22.2	9.0	22.8	27.0	75.0
94	45.0	52.4	61.0	53.6	-16.0	-35.8
95	27.0	21.2	16.0	21.8	11.0	40.7
96	81.0	55.8	32.0	57.2	49.0	60.5
97	180.0	157.6	139.0	161.4	41.0	22.8
98	63.0	52.9	44.0	54.1	19.0	30.2
99	22.0	24.7	28.0	25.3	-6.0	-27.3
100	30.0	29.1	29.0	29.9	1.0	3.3
101	16.0	20.7	26.0	21.3	-10.0	-62.5
102	24.0	24.2	25.0	24.8	-1.0	-4.2
103	46.0	32.6	20.0	33.4	26.0	56.5

104	40.0	31.1	23.0	31.9	17.0	42.5
105	24.0	27.2	31.0	27.8	-7.0	-29.2
106	65.0	50.9	38.0	52.1	27.0	41.5
107	16.0	20.3	25.0	20.7	-9.0	-56.3
108	16.0	20.7	26.0	21.3	-10.0	-62.5
109	32.0	35.6	40.0	36.4	-8.0	-25.0
110	32.0	20.3	9.0	20.7	23.0	71.9
111	24.0	31.1	39.0	31.9	-15.0	-62.5
112	30.0	40.5	52.0	41.5	-22.0	-73.3
113	56.0	49.4	44.0	50.6	12.0	21.4
114	40.0	33.6	28.0	34.4	12.0	30.0
115	30.0	35.6	42.0	36.4	-12.0	-40.0
116	32.0	41.5	52.0	42.5	-20.0	-62.5
117	96.0	80.0	66.0	82.0	30.0	31.3
118	32.0	39.5	46.0	39.5	-14.0	-43.8
119	24.0	27.7	32.0	28.3	-8.0	-33.3
120	24.0	31.6	40.0	32.4	-16.0	-66.7
121	16.0	20.7	26.0	21.3	-10.0	-62.5
122	69.0	91.4	116.0	93.6	-47.0	-68.1
123	36.0	45.4	56.0	46.6	-20.0	-55.6
124	43.0	44.5	47.0	45.5	-4.0	-9.3
125	27.0	28.6	31.0	29.4	-4.0	-14.8
126	45.0	53.8	64.0	55.2	-19.0	-42.2
127	18.0	22.2	27.0	22.8	-9.0	-50.0
128	62.0	55.3	50.0	56.7	12.0	19.4
129	54.0	62.2	72.0	63.8	-18.0	-33.3
130	54.0	33.6	14.0	34.4	40.0	74.1
131	27.0	26.7	27.0	27.3	0.0	0.0
132	91.0	118.6	149.0	121.4	-58.0	-63.7
133	45.0	39.5	35.0	40.5	10.0	22.2
134	27.0	18.3	10.0	18.7	17.0	63.0
135	64.0	72.6	83.0	74.4	-19.0	-29.7
136	56.0	59.8	65.0	61.2	-9.0	-16.1
137	24.0	31.1	39.0	31.9	-15.0	-62.5
138	88.0	97.8	110.0	100.2	-22.0	-25.0
139	56.0	45.9	39.0	48.1	17.0	30.4
140	48.0	53.3	60.0	54.7	-12.0	-25.0
141	248.0	247.5	253.0	253.5	-5.0	-2.0
142	41.0	30.1	20.0	30.9	21.0	51.2
143	40.0	51.4	64.0	52.6	-24.0	-60.0
144	56.0	36.1	17.0	36.9	39.0	69.6
145	48.0	36.6	26.0	37.4	22.0	45.8
146	33.0	21.2	10.0	21.8	23.0	69.7
147	16.0	20.7	26.0	21.3	-10.0	-62.5
148	25.0	28.6	33.0	29.4	-8.0	-32.0
149	27.0	32.6	39.0	33.4	-12.0	-44.4
150	97.0	89.4	84.0	91.6	13.0	13.4
151	117.0	137.3	161.0	140.7	-44.0	-37.6
152	45.0	35.6	27.0	36.4	18.0	40.0
153	27.0	27.7	29.0	28.3	-2.0	-7.4
154	27.0	30.1	34.0	30.9	-7.0	-25.9
155	26.0	27.7	30.0	28.3	-4.0	-15.4
156	40.0	30.1	21.0	30.9	19.0	47.5
157	48.0	40.0	33.0	41.0	15.0	31.3
158	48.0	49.9	53.0	51.1	-5.0	-10.4
159	32.0	20.7	10.0	21.3	22.0	68.8
160	32.0	28.2	25.0	28.8	7.0	21.9
161	192.0	227.2	268.0	232.8	-76.0	-39.6
162	32.0	38.0	45.0	39.0	-13.0	-40.6
163	24.0	24.2	25.0	24.8	-1.0	-4.2
164	16.0	20.7	26.0	21.3	-10.0	-62.5

145	28.0	34.6	46.0	37.4	-18.0	-64.3
146	28.0	26.2	25.0	26.8	3.0	10.7
147	45.0	31.6	19.0	32.4	26.0	57.0
148	90.0	65.2	42.0	66.8	48.0	53.3
149	27.0	30.6	35.0	31.4	-8.0	-29.6
170	36.0	45.0	55.0	46.0	-19.0	-52.8
171	44.0	56.8	71.0	58.2	-27.0	-61.6
172	35.0	45.9	58.0	47.1	-23.0	-65.7
173	36.0	29.1	23.0	29.9	13.0	36.1
174	63.0	54.8	48.0	56.2	15.0	23.8
175	36.0	34.6	34.0	35.4	2.0	5.6
176	396.0	370.0	353.0	379.0	43.0	10.9
177	27.0	26.2	26.0	26.8	1.0	3.7
178	36.0	46.9	59.0	48.1	-23.0	-63.9
179	26.0	23.7	22.0	24.3	4.0	15.4
180	36.0	26.2	17.0	26.8	19.0	52.8
181	90.0	89.4	91.0	91.6	-1.0	-1.1
182	27.0	20.7	15.0	21.3	12.0	44.6
183	54.0	44.0	35.0	45.0	19.0	35.2
184	27.0	26.2	26.0	26.8	1.0	3.7
185	18.0	23.2	29.0	23.8	-11.0	-61.1
186	36.0	27.7	20.0	28.3	16.0	44.4
187	36.0	35.1	35.0	35.9	1.0	2.8
188	18.0	21.2	25.0	21.8	-7.0	-38.9
189	45.0	47.9	52.0	49.1	-7.0	-15.6
190	450.0	353.2	265.0	361.8	185.0	41.1
191		22.7	28.0	23.3	-10.0	-55.6
192	27.0	22.2	18.0	22.8	9.0	33.3
193	48.0	54.8	63.0	56.2	-15.0	-31.3
194	40.0	46.4	54.0	47.6	-14.0	-35.0
195	281.0	309.2	345.0	316.8	-64.0	-22.8
196	24.0	30.6	38.0	31.4	-14.0	-58.3
197	32.0	31.6	32.0	32.4	0.0	0.0
198	24.0	31.6	40.0	32.4	-16.0	-66.7
199	40.0	51.9	65.0	53.1	-25.0	-62.5
200	48.0	35.1	23.0	35.9	25.0	52.1
201	24.0	32.1	41.0	32.9	-17.0	-70.8
202	56.0	65.7	77.0	67.3	-21.0	-37.5
203	88.0	97.8	110.0	100.2	-22.0	-25.0
204	40.0	47.4	56.0	48.6	-16.0	-40.0
205	24.0	30.1	37.0	30.9	-13.0	-54.2
206	24.0	28.2	33.0	28.8	-9.0	-37.5
207	40.0	53.8	69.0	55.2	-29.0	-72.5
208	168.0	165.5	167.0	169.5	1.0	.6
209	44.0	42.0	41.0	43.0	3.0	6.8
210	63.0	60.3	59.0	61.7	4.0	6.3
211	162.0	218.3	280.0	223.7	-118.0	-72.8
212	36.0	27.7	20.0	28.3	16.0	44.6
213	19.0	22.7	27.0	23.3	-8.0	-42.1
214	26.0	21.2	17.0	21.8	9.0	34.6
215	38.0	37.5	38.0	38.5	0.0	0.0
216	60.0	42.5	26.0	43.5	34.0	56.7
217	20.0	26.7	34.0	27.3	-14.0	-70.0
218	20.0	25.2	31.0	25.8	-11.0	-55.0
219	80.0	87.9	98.0	90.1	-18.0	-22.5
220	30.0	25.2	21.0	25.8	9.0	30.0
221	32.0	31.6	32.0	32.4	0.0	0.0
222	48.0	37.1	19.0	33.9	29.0	60.6
223	40.0	46.4	54.0	47.6	-14.0	-35.0
224	26.0	19.3	13.0	19.7	13.0	50.0
225	18.0	21.2	25.0	21.8	-7.0	-38.9

226	26.0	32.6	40.0	33.4	-14.0	-53.8
227	36.0	28.6	22.0	29.4	14.0	39.9
228	133.0	110.2	90.0	112.8	43.0	32.3
229	90.0	102.3	117.0	104.7	-27.0	-30.0
230	24.0	28.6	34.0	29.4	-10.0	-41.7
231	104.0	127.4	154.0	130.6	-50.0	-48.1
232	64.0	66.2	70.0	67.8	-6.0	-9.4
233	24.0	31.1	39.0	31.9	-15.0	-62.5
234	24.0	29.1	35.0	29.9	-11.0	-45.8
235	56.0	61.3	68.0	62.7	-12.0	-21.4
236	48.0	31.6	16.0	32.4	32.0	66.7
237	56.0	50.9	47.0	52.1	9.0	16.1
238	32.0	33.1	35.0	33.9	-3.0	-9.4
239	40.0	28.6	18.0	29.4	22.0	55.0
240	32.0	36.6	42.0	37.4	-10.0	-31.3
241	33.0	30.1	28.0	30.9	5.0	15.2
242	16.0	21.7	28.0	22.3	-12.0	-75.0
243	24.0	27.7	32.0	28.3	-8.0	-33.3
244	41.0	29.1	18.0	29.9	23.0	56.1
245	32.0	21.2	11.0	21.8	21.0	65.6
246	64.0	75.6	89.0	77.4	-25.0	-39.1
247	80.0	76.1	74.0	77.9	6.0	7.5
248	104.0	137.8	175.0	141.2	-71.0	-68.3
249	192.0	187.7	188.0	192.3	4.0	2.1
250	32.0	41.0	51.0	42.0	-19.0	-59.4
251	24.0	27.2	31.0	27.8	-7.0	-29.2
252	40.0	25.7	12.0	26.3	28.0	70.0
253	24.0	31.1	39.0	31.9	-15.0	-62.5
254	40.0	45.9	53.0	47.1	-13.0	-32.5
255	32.0	24.2	17.0	24.8	15.0	46.9
256	328.0	278.6	236.0	285.4	92.0	28.0
257	40.0	45.0	51.0	46.0	-11.0	-27.5
258	32.0	34.6	38.0	35.4	-6.0	-18.7
259	40.0	46.4	54.0	47.6	-14.0	-35.0
260	32.0	20.3	9.0	20.7	23.0	71.9
261	40.0	48.4	58.0	49.6	-18.0	-45.0
262	48.0	41.0	35.0	42.0	13.0	27.1
263	88.0	107.2	129.0	109.8	-41.0	-46.6
264	168.0	116.1	67.0	118.9	101.0	60.1
265	24.0	27.7	32.0	28.3	-8.0	-33.3
266	24.0	24.2	25.0	24.8	-1.0	-4.2
267	17.0	21.2	26.0	21.8	-9.0	-52.9
268	27.0	32.6	39.0	33.4	-12.0	-44.4
269	18.0	21.7	26.0	22.3	-8.0	-44.4
270	25.0	17.3	10.0	17.7	15.0	60.0
271	18.0	23.7	30.0	24.3	-12.0	-66.7
272	30.0	32.6	36.0	33.4	-6.0	-20.0
273	20.0	23.2	27.0	23.8	-7.0	-35.0
274	90.0	81.5	75.0	83.5	15.0	16.7
275	100.0	87.4	77.0	89.6	23.0	23.0
276	60.0	48.9	39.0	50.1	21.0	35.0
277	72.0	72.6	75.0	74.4	-3.0	-4.2
278	32.0	39.5	48.0	40.5	-16.0	-50.0
279	32.0	35.6	40.0	36.4	-8.0	-25.0
280	360.0	413.4	477.0	423.6	-117.0	-32.5
281	73.0	68.2	65.0	69.8	8.0	11.0
282	24.0	29.1	35.0	29.9	-11.0	-45.8
283	288.0	367.0	455.0	370.0	-167.0	-58.0
284	32.0	24.2	17.0	24.8	15.0	46.7
285	32.0	41.5	52.0	42.5	-20.0	-62.5
286	32.0	23.2	15.0	23.8	17.0	53.1

287	25.0	17.3	10.0	17.7	15.0	60.0
288	16.0	20.3	25.0	20.7	-9.0	-56.3
289	26.0	23.7	21.0	23.8	5.0	19.2
290	64.0	55.8	49.0	51.2	15.0	23.4
291	48.0	46.4	46.0	47.6	2.0	4.2
292	40.0	26.2	13.0	26.8	27.0	67.5
293	16.0	20.3	25.0	20.7	-9.0	-56.3
294	48.0	46.0	41.0	45.0	7.0	14.6
295	32.0	40.5	50.0	41.5	-18.0	-56.3
296	408.0	378.9	359.0	388.1	49.0	12.0
297	48.0	41.5	36.0	42.5	12.0	25.0
298	528.0	713.3	916.0	730.7	-388.0	-73.5
299	33.0	28.6	25.0	29.4	8.0	24.2
300	40.0	51.4	64.0	52.6	-24.0	-60.0
301	32.0	20.3	9.0	20.7	23.0	71.9
302	16.0	21.2	27.0	21.8	-11.0	-68.8
303	16.0	21.2	27.0	21.8	-11.0	-68.8
304	40.0	39.0	39.0	40.0	1.0	2.5
305	64.0	65.2	68.0	66.0	-4.0	-6.3
306	64.0	50.4	38.0	51.6	26.0	40.6
307	24.0	28.6	34.0	29.4	-10.0	-41.7
308	48.0	50.4	54.0	51.6	-6.0	-12.5
309	72.0	64.2	58.0	65.8	14.0	19.4
310	40.0	42.5	46.0	43.5	-6.0	-15.0
311	32.0	23.7	16.0	24.3	16.0	50.0
312	24.0	25.2	27.0	25.8	-3.0	-12.5
313	456.0	370.5	294.0	379.5	162.0	35.5
314	40.0	51.4	64.0	52.6	-24.0	-60.0
315	96.0	123.0	152.0	126.0	-57.0	-59.4
316	48.0	47.4	48.0	48.6	0.0	0.0
317	616.0	408.0	210.0	418.0	406.0	65.9
318	24.0	30.6	38.0	31.4	-14.0	-58.3
319	56.0	52.9	51.0	54.1	5.0	8.9
320	64.0	50.9	39.0	52.1	25.0	39.1
321	16.0	20.3	25.0	20.7	-9.0	-56.3
322	32.0	22.2	13.0	22.8	19.0	59.4
323	32.0	33.6	36.0	34.4	-4.0	-12.5
324	32.0	23.7	16.0	24.3	16.0	50.0
325	110.0	87.9	68.0	90.1	42.0	39.2
326	20.0	25.2	31.0	25.8	-11.0	-55.0
327	27.0	35.6	45.0	36.4	-18.0	-66.7
328	233.0	269.7	313.0	276.3	-80.0	-34.3
329	36.0	48.4	62.0	49.6	-26.0	-72.2
330	36.0	27.2	19.0	27.8	17.0	47.2
331	124.0	139.8	159.0	143.2	-35.0	-28.2
332	27.0	34.6	43.0	35.4	-16.0	-59.3
333	63.0	79.5	98.0	81.5	-35.0	-55.6
334	58.0	51.9	47.0	53.1	11.0	19.0
335	32.0	28.6	26.0	29.4	6.0	18.7
336	24.0	25.2	27.0	25.8	-3.0	-12.5
337	24.0	29.1	35.0	29.9	-11.0	-45.8
338	24.0	27.7	32.0	28.3	-8.0	-33.3
339	24.0	29.6	36.0	30.4	-12.0	-50.0
340	72.0	96.3	123.0	98.7	-51.0	-70.8
341	32.0	24.7	18.0	25.3	14.0	43.8
342	40.0	45.4	52.0	46.6	-12.0	-30.0
343	104.0	77.5	57.0	81.5	47.0	45.2
344	32.0	24.7	18.0	25.3	14.0	43.8
345	48.0	54.3	62.0	55.7	-14.0	-29.2
346	32.0	42.0	53.0	43.0	-21.0	-65.6
347	32.0	36.1	41.0	36.9	-9.0	-28.1

348	48.0	30.6	14.0	31.4	34.0	70.8
349	72.0	70.1	70.0	71.9	2.0	2.8
350	24.0	31.1	39.0	31.9	-15.0	-62.5
351	72.0	90.9	112.0	93.1	-40.0	-55.6
352	14.0	21.7	28.0	22.3	-12.0	-75.0
353	32.0	35.1	39.0	35.9	-7.0	-21.9
354	24.0	28.6	34.0	29.4	-10.0	-41.7
355	28.0	26.2	25.0	26.8	3.0	10.7
356	96.0	95.8	98.0	98.2	-2.0	-2.1
357	16.0	20.3	25.0	20.7	-9.0	-56.3
358	16.0	20.7	26.0	21.3	-10.0	-62.5
359	64.0	43.0	23.0	44.0	41.0	64.1
360	48.0	40.0	33.0	41.0	15.0	31.3
361	88.0	109.7	134.0	112.3	-46.0	-52.3
362	28.0	19.3	11.0	19.7	17.0	60.7
363	154.0	128.4	106.0	131.6	48.0	31.2
364	18.0	23.2	29.0	23.8	-11.0	-61.1
365	126.0	138.8	155.0	142.2	-29.0	-23.0
366	16.0	21.2	27.0	21.8	-11.0	-68.8
367	40.0	49.4	60.0	50.6	-20.0	-50.0
368	27.0	32.1	38.0	32.9	-11.0	-40.7
369	41.0	48.4	57.0	49.6	-16.0	-39.0
370	64.0	81.5	101.0	83.5	-37.0	-57.8
371	200.0	188.2	181.0	192.8	19.0	9.5
372	176.0	123.5	74.0	126.5	102.0	58.0
373	72.0	50.4	30.0	51.6	42.0	58.3
374	48.0	31.1	15.0	31.9	33.0	68.8
375	80.0	71.1	64.0	72.9	16.0	20.0
376	142.0	96.3	53.0	98.7	89.0	62.7
377	617.0	789.4	981.0	808.6	-364.0	-59.0
378	265.0	300.3	343.0	307.7	-78.0	-29.4
379	16.0	20.7	26.0	21.3	-10.0	-62.5
380	192.0	173.9	160.0	178.1	32.0	16.7
381	25.0	20.3	16.0	20.7	9.0	36.0
382	40.0	24.7	10.0	25.3	30.0	75.0
383	40.0	36.1	33.0	36.9	7.0	17.5
384	80.0	54.8	31.0	56.2	49.0	61.3
385	336.0	421.8	518.0	432.2	-182.0	-54.2
386	240.0	319.6	407.0	327.4	-167.0	-69.6
387	40.0	45.0	51.0	46.0	-11.0	-27.5
388	64.0	44.0	25.0	45.0	39.0	60.9
389	21.0	23.2	26.0	23.8	-5.0	-23.8
390	43.0	39.5	37.0	40.5	6.0	14.0
391	70.0	74.1	80.0	75.9	-10.0	-14.3
392	30.0	40.0	51.0	41.0	-21.0	-70.0
393	133.0	177.8	227.0	182.2	-94.0	-70.7
394	86.0	94.3	105.0	96.7	-19.0	-22.1
395	77.0	69.2	63.0	70.8	14.0	18.2
396	56.0	50.9	47.0	52.1	9.0	16.1
397	81.0	95.3	112.0	97.7	-31.0	-38.3
398	27.0	20.7	15.0	21.3	12.0	44.4
399	117.0	110.2	106.0	112.8	11.0	9.4
400	36.0	26.2	17.0	26.8	19.0	52.8
401	63.0	51.9	42.0	53.1	21.0	33.3
402	81.0	94.8	115.0	99.2	-34.0	-42.0
403	27.0	28.2	30.0	28.8	-3.0	-11.1
404	18.0	24.2	31.0	24.8	-13.0	-72.2
405	36.0	41.0	47.0	42.0	-11.0	-30.6
406	25.0	16.3	8.0	16.7	17.0	68.0
407	47.0	45.9	46.0	47.1	1.0	2.1
408	88.0	114.6	144.0	117.4	-56.0	-63.6

409	670.0	458.9	259.0	470.1	411.0	61.3
410	295.0	249.5	210.0	255.5	85.0	28.8
411	232.0	264.8	304.0	271.2	-72.0	-31.0
412	72.0	50.9	31.0	52.1	41.0	56.9
413	193.0	239.6	492.0	245.4	-99.0	-51.3
414	120.0	158.6	201.0	162.4	-81.0	-67.5
415	40.0	26.7	14.0	27.3	26.0	65.0
416	18.0	22.2	27.0	22.8	-9.0	-50.0
417	45.0	31.1	18.0	31.9	27.0	60.0
418	18.0	23.2	29.0	23.8	-11.0	-61.1
419	138.0	91.4	47.0	93.6	91.0	65.9
420	81.0	54.3	29.0	55.7	52.0	64.2
421	63.0	75.1	89.0	76.9	-26.0	-41.3
422	41.0	49.4	59.0	50.6	-18.0	-43.9
423	27.0	28.2	30.0	28.8	-3.0	-11.1
424	27.0	24.2	22.0	24.8	5.0	18.5
425	62.0	49.9	39.0	51.1	23.0	37.1
426	62.0	73.6	87.0	75.4	-25.0	-40.3
427	27.0	35.6	45.0	36.4	-18.0	-66.7
428	133.0	83.0	35.0	85.0	98.0	73.7
429	45.0	32.1	20.0	32.9	25.0	55.6
430	24.0	32.6	42.0	33.4	-18.0	-75.0
431	40.0	34.1	29.0	34.9	11.0	27.5
432	32.0	42.0	53.0	43.0	-21.0	-65.6
433	40.0	35.1	31.0	35.9	9.0	22.5
434	64.0	75.1	88.0	76.9	-24.0	-37.5
435	104.0	71.1	40.0	72.9	64.0	61.5
436	24.0	25.7	29.0	26.3	-4.0	-16.7
437	87.0	96.3	108.0	98.7	-21.0	-24.1
438	17.0	20.7	25.0	21.3	-8.0	-47.1
439	56.0	51.9	49.0	53.1	7.0	12.5
440	24.0	29.1	35.0	29.9	-11.0	-45.8
441	24.0	30.6	38.0	31.4	-14.0	-58.3
442	32.0	20.7	10.0	21.3	22.0	68.8
443	64.0	74.1	90.0	77.9	-26.0	-40.6
444	168.0	148.7	133.0	152.3	35.0	20.8
445	136.0	86.4	39.0	88.6	97.0	71.3
446	56.0	49.9	45.0	51.1	11.0	19.6
447	96.0	106.2	119.0	108.8	-23.0	-24.0
448	88.0	79.0	72.0	81.0	16.0	18.2
449	32.0	21.7	12.0	22.3	20.0	62.5
450	40.0	26.2	13.0	26.8	27.0	67.5
451	32.0	21.2	11.0	21.8	21.0	65.6
452	24.0	24.2	25.0	24.8	-1.0	-4.2
453	48.0	31.6	16.0	32.4	32.0	66.7
454	784.0	924.7	1088.0	947.3	-304.0	-38.8
455	216.0	169.9	128.0	174.1	88.0	40.7
456	176.0	237.1	304.0	242.9	-128.0	-72.7
457	197.0	128.4	63.0	131.6	134.0	68.0
458	1521.0	1610.3	1739.0	1649.7	-218.0	-14.3
459	772.0	944.5	1140.0	967.5	-358.0	-47.7
460	254.0	251.4	255.0	257.6	-1.0	-7.4
461	49.0	44.9	46.0	48.1	3.0	6.1
462	80.0	69.2	60.0	70.8	20.0	25.0
463	832.0	523.1	227.0	535.9	605.0	72.7
464	400.0	307.2	222.0	314.8	178.0	44.5
465	168.0	120.5	76.0	123.5	92.0	54.8
466	25.0	25.2	26.0	25.8	-1.0	-4.0
467	16.0	21.7	28.0	22.3	-12.0	-75.0
468	16.0	20.7	26.0	21.3	-10.0	-62.5
469	71.0	70.1	71.0	71.9	0.0	0.0

470	32.0	27.2	23.0	27.8	9.0	28.1
471	64.0	74.1	86.0	75.9	-22.0	-34.4
472	48.0	61.3	76.0	62.7	-28.0	-58.3
473	49.0	51.9	65.0	53.1	-25.0	-62.5
474	24.0	26.7	30.0	27.3	-6.0	-25.0
475	103.0	69.7	36.0	70.3	67.0	65.0
476	128.0	128.4	132.0	131.6	-4.0	-3.1
477	32.0	23.7	16.0	24.3	16.0	50.0
478	47.0	61.3	77.0	62.7	-30.0	-63.8
479	31.0	42.0	54.0	43.0	-23.0	-74.2
480	34.0	43.5	54.0	44.5	-20.0	-58.8
481	32.0	19.8	8.0	20.2	24.0	75.0
482	70.0	76.6	85.0	78.4	-15.0	-21.6
483	49.0	30.6	13.0	31.4	36.0	73.5
484	91.0	95.8	103.0	98.2	-12.0	-13.2
485	28.0	28.2	29.0	28.8	-1.0	-3.0
486	308.0	380.8	463.0	390.2	-155.0	-50.3
487	49.0	65.7	84.0	67.3	-35.0	-71.6
488	56.0	42.0	29.0	43.0	27.0	49.2
489	147.0	99.8	55.0	102.2	92.0	62.0
490	429.0	475.2	533.0	486.8	-104.0	-24.2
491	231.0	161.5	96.0	165.5	135.0	58.6
492	267.0	321.1	383.0	328.9	-116.0	-43.6
493	28.0	35.6	44.0	36.4	-16.0	-57.1
494	21.0	25.2	30.0	25.8	-9.0	-42.9
495	28.0	24.7	22.0	25.3	6.0	21.6
496	105.0	82.0	61.0	84.0	44.0	41.0
497	56.0	40.5	26.0	41.5	30.0	53.6
498	2114.0	1805.9	1542.0	1850.1	572.0	27.1
499	849.0	1081.8	1341.0	1108.2	-492.0	-58.0
500	549.0	710.3	889.0	727.7	-340.0	-61.9
501	44.0	54.8	67.0	56.2	-23.0	-52.3
502	28.0	29.7	14.0	21.3	14.0	50.0
503	88.0	97.8	110.0	100.2	-22.0	-25.0
504	88.0	114.1	143.0	116.9	-55.0	-62.5
505	88.0	117.6	150.0	120.4	-62.0	-70.5
506	25.0	24.7	25.0	25.3	0.0	0.0
507	64.0	49.4	36.0	50.6	28.0	43.8
508	18.0	21.7	26.0	22.3	-8.0	-44.4
509	21.0	27.7	35.0	28.3	-14.0	-66.7
510	21.0	24.2	28.0	24.8	-7.0	-33.3
511	28.0	17.8	8.0	18.2	20.0	71.4
512	56.0	49.9	45.0	51.1	11.0	19.6
513	28.0	25.7	24.0	26.3	4.0	14.0
514	28.0	23.7	20.0	24.3	8.0	28.6
515	32.0	26.7	22.0	27.3	10.0	31.3
516	32.0	24.7	18.0	25.3	14.0	43.8
517	24.0	28.6	34.0	29.4	-10.0	-41.7
518	16.0	20.3	25.0	20.7	-9.0	-56.3
519	40.0	53.3	68.0	54.7	-28.0	-70.0
520	32.0	29.6	28.0	30.4	4.0	12.0
521	40.0	25.7	12.0	26.3	28.0	70.0
522	254.0	267.7	286.0	274.3	-30.0	-11.7
523	72.0	57.8	45.0	59.2	27.0	37.5
524	30.0	40.5	52.0	41.5	-22.0	-73.0
525	30.0	29.1	29.0	29.9	1.0	3.3
526	30.0	26.7	24.0	27.3	6.0	20.0
527	140.0	165.0	196.0	169.0	-54.0	-38.6
528	26.0	16.8	8.0	17.2	18.0	69.2
529	53.0	42.5	33.0	43.5	20.0	37.7
530	36.0	29.6	22.0	29.4	14.0	38.9

531	45.0	40.0	36.0	41.0	9.0	20.0
532	18.0	21.2	25.0	21.8	-7.0	-38.9
533	252.0	251.4	257.0	257.6	-5.0	-2.0
534	36.0	37.0	39.0	38.0	-3.0	-8.3
535	28.0	25.7	24.0	26.3	4.0	14.3
536	32.0	22.7	14.0	23.3	18.0	56.3
537	80.0	58.3	38.0	59.7	42.0	52.5
538	48.0	43.5	40.0	44.5	8.0	16.7
539	65.0	45.4	27.0	46.6	38.0	59.5
540	25.0	34.1	44.0	34.9	-19.0	-76.0
541	24.0	27.7	32.0	28.3	-8.0	-33.3
542	24.0	24.2	29.0	26.8	-5.0	-20.8
543	144.0	154.6	169.0	158.4	-25.0	-17.6
544	144.0	144.2	148.0	147.8	-4.0	-2.8
545	72.0	72.6	75.0	74.4	-3.0	-4.2
546	64.0	84.5	107.0	86.5	-43.0	-67.2
547	280.0	327.0	382.0	335.0	-102.0	-36.4
548	72.0	53.8	37.0	55.2	35.0	48.6

AVERAGE DIFFERENCE IN OAS. FREQ. = 31.0
 AVERAGE PERCENTAGE DIFFERENCE = 40.8
 ROOT MEAN SQUARE ERROR = 69.59
 T-VALUE FOR PAIRED COMPARISON = 7.65

RAW CHI-SQUARE = 4630.305 WITH 547 DEGREES OF FREEDOM

T-VALUE = 63.172

CUT-OFF VALUE = 100.000 (GLATDS vs Census Package, Zone-Tract)

THERE ARE 101 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 26803
OTHR SURVEY TOTAL = 25847

PAIR NO.	H-I ORS.	H-I EXP.	O-S ORS.	O-S EXP.	OBS.DIFF	PCI.DIFF
1	90.0	100.8	109.0	97.2	-18.0	-20.0
2	104.0	104.4	105.0	102.6	-1.0	-1.0
3	97.0	103.9	107.0	100.1	-10.0	-10.3
4	117.0	109.5	98.0	105.5	19.0	16.2
5	109.0	114.5	116.0	110.5	-7.0	-6.4
6	103.0	106.0	107.0	103.1	-4.0	-3.9
7	104.0	93.2	79.0	89.8	25.0	24.0
8	108.0	121.7	131.0	117.3	-23.0	-21.3
9	224.0	238.8	245.0	230.2	-21.0	-9.6
10	114.0	123.2	128.0	118.8	-14.0	-12.3
11	84.0	94.7	102.0	91.3	-18.0	-21.4
12	160.0	161.4	157.0	155.6	3.0	1.9
13	128.0	129.8	135.0	125.2	-15.0	-12.5
14	218.0	201.1	177.0	193.9	61.0	18.8
15	97.0	102.8	105.0	99.2	-8.0	-8.2
16	114.0	115.6	113.0	111.4	1.0	.9
17	137.0	156.8	171.0	151.2	-34.0	-24.8
18	108.0	96.2	81.0	92.8	27.0	25.0
19	142.0	157.8	163.0	152.2	-26.0	-18.3
20	183.0	185.3	181.0	178.7	2.0	1.1
21	117.0	119.6	118.0	115.4	-1.0	-.9
22	108.0	119.6	127.0	115.4	-19.0	-17.6
23	106.0	120.7	131.0	116.3	-25.0	-23.6
24	184.0	202.6	214.0	195.4	-30.0	-16.3
25	96.0	103.9	109.0	100.1	-12.0	-12.5
26	90.0	102.3	111.0	98.7	-21.0	-23.3
27	117.0	119.6	118.0	115.4	-1.0	-.9
28	261.0	266.8	263.0	257.2	-2.0	-.8
29	314.0	295.3	266.0	284.7	48.0	15.3
30	522.0	488.2	437.0	470.8	85.0	16.3
31	333.0	320.2	296.0	308.8	37.0	11.1
32	164.0	147.1	125.0	141.9	39.0	23.8
33	112.0	121.7	127.0	117.3	-15.0	-13.4
34	116.0	125.7	131.0	121.3	-15.0	-12.9
35	178.0	202.6	220.0	195.4	-42.0	-23.6
36	144.0	145.1	141.0	139.9	3.0	2.1
37	96.0	106.9	114.0	103.1	-18.0	-18.7
38	112.0	117.6	119.0	113.4	-7.0	-6.3
39	169.0	161.9	149.0	156.1	20.0	11.0
40	210.0	191.4	166.0	184.6	44.0	21.0
41	85.0	95.2	102.0	91.8	-17.0	-20.0
42	192.0	174.1	150.0	167.9	42.0	21.9

43	105.0	108.9	109.0	105.1	-4.0	-3.8
44	180.0	181.8	181.0	177.2	-1.0	-6
45	204.0	195.5	180.0	188.5	24.0	11.8
46	96.0	104.4	109.0	100.6	-13.0	-13.5
47	106.0	114.0	118.0	110.0	-12.0	-11.3
48	204.0	232.1	252.0	223.9	-48.0	-23.5
49	221.0	238.8	248.0	230.2	-27.0	-12.2
50	128.0	131.9	131.0	127.1	-3.0	-2.3
51	188.0	176.1	158.0	169.9	30.0	16.0
52	228.0	205.2	175.0	197.8	53.0	23.2
53	272.0	247.4	214.0	248.6	58.0	21.3
54	144.0	143.1	137.0	137.9	7.0	4.9
55	132.0	126.3	116.0	121.7	16.0	12.1
56	120.0	117.1	110.0	112.9	10.0	8.3
57	395.0	378.2	348.0	364.8	47.0	11.9
58	108.0	122.2	132.0	117.8	-24.0	-22.2
59	934.0	1045.6	1120.0	1008.4	-186.0	-19.9
60	278.0	307.0	325.0	296.0	-47.0	-16.9
61	104.0	99.8	92.0	96.2	12.0	11.5
62	596.0	669.9	720.0	646.1	-124.0	-20.8
63	132.0	135.9	135.0	131.1	-3.0	-2.3
64	258.0	230.1	194.0	221.9	64.0	24.8
65	160.0	145.1	125.0	139.9	35.0	21.9
66	162.0	167.0	166.0	161.0	-4.0	-2.5
67	992.0	1000.3	973.0	964.7	19.0	1.9
68	231.0	243.3	247.0	234.7	-16.0	-6.9
69	124.0	110.5	93.0	106.5	31.0	25.0
70	313.0	343.1	361.0	330.9	-48.0	-15.3
71	228.0	222.5	209.0	214.5	19.0	8.3
72	141.0	143.1	140.0	137.9	1.0	.7
73	169.0	158.3	142.0	152.7	27.0	16.0
74	340.0	310.0	269.0	299.0	71.0	20.9
75	136.0	141.5	142.0	136.5	-6.0	-4.4
76	112.0	120.7	125.0	116.3	-13.0	-11.6
77	1024.0	965.2	872.0	930.8	152.0	14.8
78	152.0	140.0	123.0	135.0	29.0	19.1
79	104.0	99.8	92.0	96.2	12.0	11.5
80	2303.0	2254.7	2126.0	2174.3	177.0	7.7
81	331.0	335.5	328.0	323.5	3.0	.9
82	135.0	139.0	138.0	134.0	-3.0	-2.2
83	1240.0	1137.3	994.0	1096.7	246.0	19.8
84	168.0	153.2	133.0	147.8	35.0	20.8
85	103.0	103.9	101.0	100.1	2.0	1.9
86	261.0	264.2	258.0	254.8	3.0	1.1
87	315.0	325.3	324.0	313.7	-9.0	-2.9
88	726.0	727.0	702.0	701.0	24.0	3.3
89	312.0	281.5	241.0	271.5	71.0	22.8
90	154.0	149.2	139.0	143.8	15.0	9.7
91	2970.0	2822.3	2574.0	2721.7	396.0	13.3
92	330.0	367.0	391.0	354.0	-61.0	-19.5
93	318.0	354.3	378.0	341.7	-60.0	-18.9
94	88.0	96.2	101.0	92.8	-13.0	-14.8
95	112.0	118.6	121.0	114.4	-9.0	-8.0
96	168.0	155.3	137.0	149.7	31.0	18.5
97	111.0	113.0	111.0	109.0	0.0	0.0
98	132.0	144.1	151.0	138.9	-19.0	-14.4
99	154.0	176.1	192.0	169.9	-38.0	-24.7
100	292.0	293.7	285.0	283.3	7.0	2.4
101	200.0	199.6	192.0	192.6	8.0	4.0

AVERAGE DIFFERENCE IN OBS. FREQ. = 33.5
AVERAGE PERCENTAGE DIFFERENCE = 12.7
ROOT MEAN SQUARE ERROR = 63.08
T-VALUE FOR PAIRED COMPARISON = 1.52

RAW CHI-SQUARE = 274.563 WITH 100 DEGREES OF FREEDOM

T-VALUE = 9.327

CUT-OFF VALUE = 50.000 (GLATDS vs Census Package, Zone-Tract)

THERE ARE 254 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 36827
OTHER SURVEY TOTAL = 35927

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCI.DIFF
1	69.0	74.4	82.0	74.6	-13.0	-18.8
2	90.0	100.2	108.0	97.8	-18.0	-20.0
3	60.0	64.3	67.0	62.7	-7.0	-11.7
4	68.0	75.9	82.0	74.1	-14.0	-20.6
5	58.0	52.6	46.0	51.4	12.0	20.7
6	92.0	92.6	91.0	90.4	1.0	1.1
7	98.0	96.7	93.0	94.3	5.0	5.1
8	104.0	105.8	105.0	103.2	-1.0	-1.0
9	97.0	103.3	107.0	100.7	-10.0	-10.3
10	48.0	50.6	52.0	49.4	-4.0	-8.3
11	49.0	53.1	57.0	51.9	-9.0	-18.7
12	117.0	108.8	98.0	106.2	19.0	16.2
13	61.0	60.7	59.0	59.3	2.0	3.3
14	109.0	113.9	116.0	111.1	-7.0	-6.4
15	103.0	106.3	107.0	103.7	-4.0	-3.9
16	65.0	60.7	55.0	59.3	10.0	15.4
17	77.0	77.4	76.0	75.6	1.0	1.3
18	104.0	92.6	79.0	90.4	25.0	24.0
19	68.0	62.3	55.0	60.7	13.0	19.1
20	49.0	50.6	51.0	49.4	-2.0	-4.1
21	92.0	84.5	75.0	82.5	17.0	18.5
22	60.0	56.2	51.0	54.8	9.0	15.0
23	84.0	91.6	97.0	89.4	-13.0	-15.5
24	108.0	121.0	131.0	118.0	-23.0	-21.3
25	224.0	237.4	245.0	231.6	-21.0	-9.4
26	96.0	89.1	80.0	86.9	16.0	16.7
27	56.0	51.1	45.0	49.9	11.0	19.6
28	61.0	59.7	57.0	58.3	4.0	6.6
29	52.0	54.2	55.0	52.8	-3.0	-5.8
30	114.0	122.5	128.0	119.5	-14.0	-12.3
31	48.0	53.7	58.0	52.3	-10.0	-20.8
32	72.0	68.8	64.0	67.2	8.0	11.1
33	84.0	94.2	102.0	91.8	-18.0	-21.4
34	70.0	75.4	79.0	73.6	-9.0	-12.9
35	72.0	70.9	68.0	69.1	4.0	5.6
36	160.0	160.5	157.0	156.5	3.0	1.7
37	75.0	76.9	77.0	75.1	-2.0	-2.7
38	120.0	129.1	135.0	125.9	-15.0	-12.5
39	63.0	70.9	77.0	69.1	-14.0	-22.2
40	64.0	59.7	52.0	58.3	14.0	21.2
41	95.0	94.7	92.0	92.3	3.0	3.2
42	55.0	61.2	66.0	59.8	-11.0	-20.0

43	83.0	83.5	82.0	81.5	1.0	1.2
44	218.0	199.9	177.0	195.1	41.0	18.8
45	43.0	47.1	50.0	45.9	-7.0	-16.3
46	96.0	97.2	96.0	94.8	0.0	0.0
47	82.0	83.0	82.0	81.0	0.0	0.0
48	46.0	51.1	55.0	49.9	-9.0	-19.6
49	97.0	102.2	105.0	99.8	-8.0	-8.2
50	56.0	54.7	54.0	53.3	0.0	0.0
51	60.0	59.2	57.0	57.8	3.0	5.0
52	96.0	90.1	82.0	87.9	14.0	14.6
53	114.0	114.9	113.0	112.1	1.0	.9
54	137.0	155.9	171.0	152.1	-34.0	-24.8
55	63.0	56.2	48.0	54.8	15.0	23.8
56	69.0	76.9	83.0	75.1	-14.0	-20.3
57	71.0	69.3	66.0	67.7	5.0	7.0
58	91.0	86.1	79.0	83.9	12.0	13.2
59	108.0	95.7	81.0	93.3	27.0	25.0
60	86.0	88.6	89.0	86.4	-3.0	-3.5
61	142.0	156.9	168.0	153.1	-26.0	-18.3
62	183.0	184.3	181.0	179.7	2.0	1.1
63	64.0	64.8	64.0	63.2	0.0	0.0
64	117.0	119.0	118.0	116.0	-1.0	-.9
65	58.0	57.2	57.0	55.8	-1.0	-1.8
66	81.0	73.9	65.0	72.1	16.0	19.8
67	108.0	119.0	127.0	116.0	-19.0	-17.6
68	67.0	72.4	76.0	70.6	-9.0	-13.4
69	106.0	120.0	131.0	117.0	-25.0	-23.6
70	71.0	67.8	63.0	66.2	8.0	11.3
71	184.0	201.5	214.0	196.5	-30.0	-16.3
72	96.0	103.3	108.0	100.7	-12.0	-12.5
73	53.0	55.2	56.0	53.8	-3.0	-5.7
74	88.0	92.6	97.0	90.4	-11.0	-12.8
75	48.0	53.7	58.0	52.3	-10.0	-20.8
76	44.0	47.6	50.0	46.4	-6.0	-13.6
77	60.0	54.7	48.0	53.3	12.0	20.0
78	90.0	101.7	111.0	99.3	-21.0	-23.3
79	57.0	58.2	58.0	56.8	-1.0	-1.8
80	117.0	119.0	118.0	116.0	-1.0	-.9
81	261.0	265.2	263.0	258.8	-2.0	-.8
82	45.0	50.1	54.0	48.9	-9.0	-20.0
83	54.0	52.6	50.0	51.4	4.0	7.4
84	314.0	293.6	266.0	286.4	48.0	15.3
85	54.0	48.6	42.0	47.4	12.0	22.2
86	522.0	485.4	437.0	473.6	85.0	16.3
87	52.0	54.7	56.0	53.3	-4.0	-7.7
88	72.0	76.4	79.0	74.6	-7.0	-9.7
89	333.0	318.4	296.0	310.6	37.0	11.1
90	52.0	51.6	50.0	50.4	2.0	3.8
91	56.0	51.1	45.0	49.9	11.0	19.6
92	164.0	146.3	125.0	142.7	39.0	23.8
93	55.0	62.3	68.0	60.7	-13.0	-23.6
94	112.0	121.0	127.0	118.0	-15.0	-13.4
95	71.0	69.3	66.0	67.7	5.0	7.0
96	116.0	125.0	131.0	122.0	-15.0	-12.9
97	53.0	55.2	56.0	53.8	-3.0	-5.7
98	63.0	64.8	65.0	63.2	-2.0	-3.2
99	62.0	56.7	50.0	55.3	12.0	19.4
100	55.0	57.7	59.0	56.3	-4.0	-7.3
101	88.0	87.1	84.0	84.9	4.0	4.5
102	49.0	50.1	50.0	48.9	-1.0	-2.0
103	49.0	51.1	52.0	49.9	-3.0	-6.1

104	178.0	201.5	220.0	196.5	-42.0	-23.0
105	44.0	50.1	55.0	48.9	-11.0	-25.0
106	144.0	144.3	141.0	140.7	3.0	7.1
107	44.0	49.1	53.0	47.9	-9.0	-20.5
108	56.0	52.6	48.0	51.4	8.0	14.3
109	72.0	72.9	72.0	71.1	0.0	0.0
110	48.0	52.1	55.0	50.9	-7.0	-14.0
111	64.0	64.8	64.0	63.2	0.0	0.0
112	52.0	52.1	51.0	50.9	1.0	1.9
113	52.0	52.1	51.0	50.9	1.0	1.9
114	96.0	106.3	114.0	103.7	-18.0	-18.7
115	112.0	116.9	119.0	114.1	-7.0	-6.3
116	64.0	61.8	58.0	60.2	6.0	9.0
117	61.0	66.8	71.0	65.2	-10.0	-16.0
118	169.0	161.0	149.0	157.0	20.0	11.8
119	210.0	190.3	166.0	185.7	44.0	21.0
120	64.0	60.7	56.0	59.3	8.0	12.5
121	52.0	52.1	51.0	50.9	1.0	1.9
122	72.0	78.0	82.0	76.0	-10.0	-13.9
123	85.0	94.7	102.0	92.3	-17.0	-20.0
124	84.0	90.1	94.0	87.9	-10.0	-11.9
125	192.0	173.1	150.0	168.9	42.0	21.9
126	72.0	65.3	57.0	63.7	15.0	20.8
127	57.0	64.8	71.0	63.2	-14.0	-24.0
128	46.0	48.6	50.0	47.4	-4.0	-8.7
129	90.0	94.2	96.0	91.8	-6.0	-6.7
130	50.0	54.7	58.0	53.3	-8.0	-16.0
131	55.0	51.6	47.0	50.4	8.0	14.5
132	90.0	90.1	86.0	86.9	4.0	4.0
133	42.0	47.1	51.0	45.9	-9.0	-21.0
134	72.0	64.3	55.0	62.7	17.0	23.6
135	105.0	108.3	109.0	105.7	-4.0	-3.8
136	180.0	182.7	181.0	178.3	-1.0	-6.0
137	204.0	194.4	180.0	189.6	24.0	11.8
138	89.0	80.5	70.0	78.5	19.0	21.3
139	68.0	68.3	67.0	66.7	1.0	1.5
140	56.0	61.8	66.0	60.2	-10.0	-17.9
141	94.0	103.8	109.0	101.2	-13.0	-13.5
142	64.0	72.4	79.0	70.6	-15.0	-23.4
143	106.0	113.4	118.0	110.6	-12.0	-11.3
144	204.0	230.8	252.0	225.2	-48.0	-23.5
145	221.0	237.4	248.0	231.6	-27.0	-12.2
146	72.0	64.8	56.0	63.2	16.0	22.2
147	80.0	82.5	83.0	80.5	-3.0	-3.8
148	52.0	49.1	45.0	47.9	7.0	13.5
149	80.0	82.5	83.0	80.5	-3.0	-3.8
150	128.0	131.1	131.0	127.9	-3.0	-2.3
151	84.0	80.5	75.0	78.5	9.0	10.7
152	47.0	50.6	53.0	49.4	-6.0	-12.8
153	188.0	175.1	158.0	170.9	30.0	16.0
154	45.0	49.1	52.0	47.9	-7.0	-15.6
155	228.0	204.0	175.0	199.0	53.0	23.2
156	272.0	246.0	214.0	240.0	58.0	21.3
157	144.0	142.2	137.0	138.8	7.0	4.9
158	48.0	52.6	56.0	51.4	-8.0	-16.7
159	76.0	79.0	80.0	77.0	-4.0	-5.3
160	60.0	65.3	69.0	63.7	-9.0	-15.0
161	80.0	85.5	89.0	83.5	-9.0	-11.3
162	56.0	62.8	68.0	61.2	-12.0	-21.0
163	132.0	125.5	116.0	122.5	16.0	12.1
164	55.0	50.1	44.0	48.9	11.0	20.0

145	75.0	76.9	77.0	75.1	-2.0	-2.7
146	67.0	62.3	56.0	60.7	11.0	16.4
147	71.0	65.8	59.0	64.2	12.0	16.9
148	56.0	53.1	49.0	51.9	7.0	12.5
149	120.0	116.4	110.0	113.6	10.0	8.3
170	52.0	50.6	48.0	49.4	4.0	7.7
171	48.0	53.1	57.0	51.9	-9.0	-18.7
172	56.0	59.7	62.0	58.3	-6.0	-10.7
173	80.0	74.4	67.0	72.6	13.0	16.3
174	395.0	375.1	348.0	366.9	47.0	11.9
175	108.0	121.5	132.0	118.5	-24.0	-22.2
176	934.0	1039.7	1120.0	1014.3	-186.0	-19.9
177	278.0	305.2	325.0	297.8	-47.0	-16.9
178	66.0	69.3	71.0	67.7	-5.0	-7.6
179	104.0	99.2	92.0	96.8	12.0	11.5
180	596.0	666.1	720.0	649.9	-124.0	-20.8
181	132.0	135.2	135.0	131.8	-3.0	-2.3
182	81.0	89.1	95.0	86.9	-14.0	-17.3
183	60.0	63.3	65.0	61.7	-5.0	-8.3
184	258.0	228.8	194.0	223.2	64.0	24.8
185	79.0	74.5	76.0	76.5	3.0	3.8
186	160.0	144.3	125.0	140.7	35.0	21.9
187	61.0	66.8	71.0	65.2	-10.0	-16.4
188	162.0	166.0	166.0	162.0	-4.0	-2.3
189	992.0	999.7	973.0	970.3	19.0	1.9
190	231.0	242.0	247.0	236.0	-16.0	-6.9
191	124.0	109.8	93.0	107.2	31.0	25.0
192	313.0	341.2	361.0	332.8	-48.0	-15.3
193	92.0	82.0	70.0	80.0	22.0	23.9
194	61.0	62.3	62.0	60.7	-1.0	-1.6
195	229.0	221.2	209.0	215.8	19.0	8.3
196	141.0	142.2	146.0	138.8	1.0	.7
197	79.0	89.1	97.0	86.9	-18.0	-22.8
198	93.0	92.6	90.0	90.4	3.0	3.2
199	159.0	157.4	142.0	153.6	27.0	16.0
200	68.0	69.3	69.0	67.7	-1.0	-1.5
201	79.0	89.1	97.0	86.9	-18.0	-22.8
202	56.0	51.1	45.0	49.9	11.0	19.6
203	88.0	84.0	78.0	82.0	10.0	11.4
204	42.0	47.1	51.0	45.9	-9.0	-21.4
205	340.0	308.3	269.0	300.7	71.0	20.3
206	136.0	140.7	142.0	137.3	-6.0	-4.6
207	112.0	120.0	125.0	117.0	-13.0	-11.6
208	56.0	61.2	65.0	59.8	-9.0	-16.1
209	1024.0	959.7	872.0	936.3	152.0	14.8
210	152.0	139.2	123.0	135.8	29.0	19.1
211	104.0	99.2	92.0	96.8	12.0	11.5
212	2303.0	2241.9	2126.0	2187.1	177.0	7.7
213	331.0	333.6	328.0	325.4	3.0	.9
214	58.0	60.2	61.0	58.8	-3.0	-5.2
215	135.0	134.2	138.0	134.8	-3.0	-2.2
216	1240.0	1130.8	994.0	1103.2	246.0	19.8
217	168.0	152.4	133.0	148.6	35.0	20.8
218	48.0	53.1	57.0	51.9	-9.0	-18.7
219	84.0	87.6	89.0	85.4	-5.0	-6.0
220	76.0	79.5	81.0	77.5	-5.0	-6.6
221	103.0	103.3	101.0	100.7	2.0	1.9
222	78.0	79.0	78.0	77.0	0.0	0.0
223	261.0	262.7	258.0	256.3	3.0	1.1
224	56.0	60.2	64.0	58.8	-9.0	-16.6
225	72.0	79.5	85.0	77.5	-13.0	-18.1

226	315.0	323.5	324.0	315.5	-9.0	-2.9
227	79.0	74.9	69.0	73.1	10.0	12.7
228	65.0	62.3	58.0	60.7	7.0	10.8
229	70.0	64.3	57.0	62.7	13.0	18.6
230	49.0	54.7	59.0	53.3	-10.0	-20.4
231	724.0	722.8	702.0	705.2	24.0	3.3
232	312.0	279.9	241.0	273.1	71.0	22.8
233	56.0	57.2	57.0	55.8	-1.0	-1.8
234	154.0	148.3	139.0	144.7	15.0	9.7
235	2970.0	2806.3	2574.0	2737.7	396.0	13.3
236	330.0	365.0	391.0	356.0	-61.0	-18.5
237	318.0	352.3	378.0	343.7	-60.0	-18.9
238	88.0	95.7	101.0	93.3	-13.0	-14.8
239	88.0	92.6	95.0	90.4	-7.0	-8.0
240	89.0	85.0	79.0	83.0	10.0	11.2
241	50.0	50.1	49.0	48.9	1.0	2.0
242	112.0	117.9	121.0	115.1	-9.0	-8.0
243	60.0	61.8	62.0	60.2	-2.0	-3.3
244	168.0	154.4	137.0	150.6	31.0	18.5
245	68.0	70.4	71.0	68.6	-3.0	-4.0
246	65.0	60.2	54.0	58.8	11.0	16.9
247	111.0	112.4	111.0	109.6	0.0	0.0
248	48.0	53.1	57.0	51.9	-9.0	-18.7
249	90.0	89.1	86.0	86.9	4.0	4.4
250	132.0	143.3	151.0	139.7	-19.0	-14.4
251	154.0	175.1	192.0	170.9	-38.0	-24.7
252	292.0	292.1	285.0	284.9	7.0	2.6
253	60.0	64.8	68.0	63.2	-8.0	-13.3
254	200.0	198.4	192.0	193.6	8.0	4.0

AVERAGE DIFFERENCE IN OBS. FREQ. = 17.9
 AVERAGE PERCENTAGE DIFFERENCE = 12.2
 ROOT MEAN SQUARE ERROR = 40.39
 T-VALUE FOR PAIRED COMPARISON = 1.40

RAW CHI-SQUARE = 375.272 WITH 253 DEGREES OF FREEDOM

T-VALUE = 4.924

CUT-OFF VALUE = 25.000 (GLATDS vs Census Package, Zone-Tract)

THERE ARE 534 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 45935
OTHER SURVEY TOTAL = 45094

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF.	PCI.DIFF.
1	27.0	29.3	31.0	28.7	-4.0	-14.8
2	26.0	27.2	28.0	26.8	-2.0	-7.7
3	25.0	25.2	25.0	24.8	0.0	0.0
4	49.0	76.2	82.0	74.8	-13.0	-19.8
5	24.0	25.7	27.0	25.3	-3.0	-12.5
6	31.0	27.2	23.0	26.8	8.0	25.8
7	37.0	41.4	45.0	40.3	-6.0	-21.6
8	25.0	24.7	24.0	24.3	1.0	4.0
9	30.0	30.8	31.0	30.2	-1.0	-3.3
10	32.0	30.8	29.0	30.2	3.0	9.6
11	90.0	98.9	108.0	98.1	-18.0	-20.0
12	60.0	66.1	67.0	62.9	-7.0	-11.7
13	28.0	36.0	33.0	30.2	-5.0	-17.9
14	68.0	75.7	82.0	74.3	-14.0	-20.6
15	58.0	52.5	46.0	51.5	12.0	20.7
16	92.0	92.3	91.0	90.7	1.0	1.1
17	48.0	43.9	39.0	43.1	9.0	18.7
18	28.0	31.8	35.0	31.2	-7.0	-25.0
19	25.0	26.2	27.0	25.8	-2.0	-8.0
20	40.0	41.9	43.0	41.1	-3.0	-7.3
21	29.0	30.3	31.0	29.7	-2.0	-6.9
22	36.0	40.4	44.0	39.6	-8.0	-22.4
23	34.0	37.3	40.0	36.7	-6.0	-17.6
24	32.0	32.3	32.0	31.7	0.0	0.0
25	98.0	96.4	93.0	94.6	5.0	5.1
26	104.0	105.5	105.0	103.5	-1.0	-1.0
27	35.0	33.8	32.0	33.2	3.0	8.6
28	97.0	102.9	107.0	101.1	-10.0	-10.3
29	48.0	50.5	52.0	49.5	-4.0	-8.3
30	48.0	53.0	57.0	52.0	-9.0	-18.7
31	42.0	37.3	32.0	36.7	10.0	23.8
32	117.0	108.5	98.0	106.5	19.0	16.2
33	31.0	33.3	35.0	32.7	-4.0	-12.9
34	61.0	60.6	59.0	59.4	2.0	3.3
35	27.0	29.8	32.0	29.2	-5.0	-18.5
36	26.0	23.2	20.0	22.8	6.0	23.1
37	41.0	40.9	40.0	40.1	1.0	2.4
38	109.0	113.5	116.0	111.5	-7.0	-6.4
39	103.0	106.0	107.0	104.0	-4.0	-3.9
40	32.0	32.8	33.0	32.2	-1.0	-3.1
41	65.0	60.6	55.0	59.4	10.0	15.4
42	49.0	48.4	47.0	47.6	2.0	4.1

43	24.0	26.2	28.0	25.8	-4.0	-16.7
44	26.0	27.2	29.0	26.8	-2.0	-7.7
45	77.0	77.2	76.0	75.8	1.0	1.3
46	32.0	30.8	29.0	30.2	3.0	9.4
47	104.0	92.3	79.0	90.7	25.0	24.0
48	68.0	62.1	55.0	60.9	13.0	19.1
49	32.0	31.3	30.0	30.7	2.0	6.3
50	31.0	33.8	36.0	33.2	-5.0	-16.1
51	49.0	50.5	51.0	49.5	-2.0	-4.1
52	28.0	25.7	23.0	25.3	5.0	17.9
53	25.0	26.2	27.0	25.8	-2.0	-8.0
54	92.0	84.3	75.0	82.7	17.0	18.5
55	60.0	56.0	51.0	55.0	9.0	15.0
56	24.0	27.2	30.0	26.8	-6.0	-25.0
57	84.0	91.3	97.0	89.7	-13.0	-15.5
58	39.0	34.8	30.0	34.2	9.0	23.1
59	32.0	30.3	28.0	29.7	4.0	12.5
60	108.0	120.6	131.0	118.4	-23.0	-21.3
61	224.0	236.7	245.0	232.3	-21.0	-9.4
62	45.0	44.4	43.0	43.6	2.0	4.4
63	48.0	46.9	45.0	46.1	3.0	6.3
64	96.0	88.8	80.0	87.2	16.0	16.7
65	56.0	51.0	45.0	50.0	11.0	19.6
66	61.0	59.5	57.0	58.5	4.0	6.6
67	24.0	26.7	29.0	26.3	-5.0	-20.8
68	35.0	35.3	35.0	34.7	0.0	0.0
69	32.0	31.8	31.0	31.2	1.0	3.1
70	52.0	54.0	55.0	53.0	-3.0	-5.8
71	114.0	122.1	128.0	119.9	-14.0	-12.3
72	24.0	26.2	29.0	25.8	-4.0	-16.7
73	48.0	53.5	58.0	52.5	-10.0	-20.8
74	72.0	68.6	64.0	67.4	8.0	11.1
75	84.0	93.9	102.0	92.1	-18.0	-21.4
76	70.0	75.2	79.0	73.8	-9.0	-12.9
77	72.0	70.6	68.0	69.4	4.0	5.6
78	160.0	160.0	157.0	157.0	3.0	1.9
79	29.0	31.3	33.0	30.7	-4.0	-13.8
80	29.0	31.8	34.0	31.2	-5.0	-17.2
81	75.0	76.7	77.0	75.3	-2.0	-2.7
82	30.0	28.8	27.0	28.2	3.0	10.0
83	32.0	34.8	37.0	34.2	-5.0	-15.6
84	29.0	27.8	26.0	27.2	3.0	10.3
85	32.0	30.3	28.0	29.7	4.0	12.5
86	120.0	128.7	135.0	126.3	-15.0	-12.5
87	32.0	28.3	24.0	27.7	8.0	25.0
88	63.0	70.6	77.0	69.4	-14.0	-22.2
89	37.0	40.9	44.0	40.1	-7.0	-18.9
90	24.0	26.7	29.0	26.3	-5.0	-20.8
91	66.0	59.5	52.0	58.5	14.0	21.2
92	23.0	25.7	28.0	25.3	-5.0	-21.7
93	95.0	94.4	92.0	92.6	3.0	3.2
94	26.0	23.7	21.0	23.3	5.0	19.2
95	26.0	25.7	25.0	25.3	1.0	3.8
96	26.0	28.3	30.0	27.7	-4.0	-15.4
97	26.0	24.2	22.0	23.8	4.0	15.4
98	55.0	61.1	66.0	59.9	-11.0	-20.0
99	43.0	42.4	41.0	41.6	2.0	4.7
100	83.0	83.3	82.0	81.7	1.0	1.2
101	218.0	199.3	177.0	195.7	41.0	18.8
102	43.0	46.9	50.0	46.1	-7.0	-16.3
103	96.0	96.9	96.0	95.1	0.0	0.0

104	41.0	42.4	43.0	41.6	-2.0	-4.2
105	44.0	45.0	47.0	45.1	-3.0	-6.8
106	82.0	82.8	82.0	81.2	0.0	0.0
107	40.0	39.0	39.0	39.1	1.0	2.5
108	40.0	42.0	45.0	42.1	-5.0	-12.5
109	22.0	24.2	26.0	23.8	-4.0	-19.2
110	30.0	32.8	35.0	32.2	-5.0	-16.7
111	38.0	37.3	36.0	36.7	2.0	5.3
112	28.0	31.8	35.0	31.2	-7.0	-25.0
113	24.0	26.7	29.0	26.3	-5.0	-20.8
114	41.0	43.4	45.0	42.6	-4.0	-9.8
115	46.0	51.0	55.0	50.0	-9.0	-19.6
116	29.0	27.8	26.0	27.2	3.0	10.3
117	97.0	101.9	105.0	100.1	-8.0	-8.2
118	30.0	27.8	25.0	27.2	5.0	16.7
119	28.0	29.3	30.0	28.7	-2.0	-7.1
120	28.0	25.7	23.0	25.3	5.0	17.9
121	54.0	54.5	54.0	53.5	0.0	0.0
122	60.0	59.0	57.0	58.0	3.0	5.0
123	32.0	31.8	35.0	33.2	-3.0	-9.4
124	96.0	89.8	82.0	88.2	14.0	14.6
125	26.0	25.2	24.0	24.8	2.0	7.7
126	114.0	114.5	113.0	112.5	1.0	6.9
127	36.0	35.3	34.0	34.7	2.0	5.6
128	32.0	32.3	32.0	31.7	0.0	0.0
129	32.0	30.8	29.0	30.2	3.0	9.0
130	32.0	30.8	29.0	30.2	3.0	9.0
131	32.0	28.8	25.0	28.2	7.0	21.2
132	42.0	43.9	45.0	43.1	-3.0	-7.1
133	137.0	155.4	171.0	152.6	-34.0	-24.8
134	63.0	56.0	48.0	55.0	15.0	23.8
135	69.0	76.7	83.0	75.3	-14.0	-20.3
136	26.0	25.7	25.0	25.3	1.0	3.8
137	71.0	69.1	66.0	67.9	5.0	7.0
138	91.0	85.8	79.0	84.2	12.0	13.2
139	22.0	23.7	25.0	23.3	-3.0	-13.6
140	108.0	95.4	81.0	93.6	27.0	25.0
141	27.0	28.8	30.0	28.2	-3.0	-11.1
142	35.0	31.3	27.0	30.7	8.0	22.9
143	27.0	24.7	22.0	24.3	5.0	18.5
144	34.0	30.3	26.0	29.7	8.0	23.5
145	27.0	28.3	29.0	27.7	-2.0	-7.0
146	86.0	88.3	89.0	86.7	-3.0	-3.5
147	142.0	156.4	168.0	153.6	-26.0	-19.3
148	183.0	183.7	181.0	180.3	2.0	1.1
149	64.0	64.6	64.0	63.4	0.0	0.0
150	29.0	27.8	26.0	27.2	3.0	10.3
151	117.0	119.6	118.0	116.4	-1.0	-0.9
152	45.0	47.4	49.0	46.6	-4.0	-8.9
153	28.0	25.7	23.0	25.3	5.0	17.9
154	32.0	32.3	32.0	31.7	0.0	0.0
155	56.0	57.0	57.0	56.0	-1.0	-1.8
156	48.0	46.9	45.0	46.1	3.0	6.3
157	28.0	28.3	28.0	27.7	0.0	0.0
158	32.0	32.8	33.0	32.2	-1.0	-3.1
159	81.0	73.7	65.0	72.3	16.0	19.8
160	25.0	26.2	27.0	25.8	-2.0	-8.0
161	26.0	28.8	31.0	28.2	-5.0	-13.2
162	108.0	118.6	127.0	116.4	-19.0	-17.6
163	67.0	72.2	76.0	70.8	-9.0	-13.6
164	24.0	24.7	25.0	24.3	-1.0	-4.2

165	106.0	119.6	131.0	117.4	-25.0	-23.6
166	27.0	24.2	21.0	23.8	6.0	22.2
167	35.0	39.4	43.0	38.6	-8.0	-22.4
168	71.0	67.6	63.0	66.4	8.0	11.3
169	184.0	200.8	214.0	197.2	-30.0	-16.3
170	96.0	102.9	108.0	101.1	-12.0	-12.5
171	53.0	55.0	56.0	54.0	-3.0	-5.7
172	40.0	40.9	41.0	40.1	-1.0	-2.5
173	86.0	92.3	97.0	90.7	-11.0	-12.8
174	48.0	53.5	58.0	52.5	-10.0	-20.8
175	44.0	47.4	50.0	46.6	-6.0	-13.6
176	60.0	54.5	48.0	53.5	12.0	20.0
177	28.0	25.7	23.0	25.3	5.0	17.4
178	90.0	101.4	111.0	99.6	-21.0	-23.3
179	57.0	58.0	58.0	57.0	-1.0	-1.8
180	117.0	118.6	118.0	116.4	-1.0	-0.9
181	47.0	45.4	43.0	44.6	4.0	8.5
182	43.0	40.9	38.0	40.1	5.0	11.6
183	29.0	28.3	27.0	27.7	2.0	6.9
184	36.0	36.8	37.0	36.2	-1.0	-2.8
185	35.0	31.3	27.0	30.7	8.0	22.4
186	261.0	264.4	263.0	259.6	-2.0	-0.8
187	45.0	50.0	54.0	49.0	-9.0	-20.0
188	49.0	44.9	40.0	44.1	9.0	18.4
189	36.0	36.3	36.0	35.7	0.0	0.0
190	54.0	52.5	50.0	51.5	4.0	7.4
191	31.0	33.8	36.0	33.2	-5.0	-16.1
192	36.0	35.3	34.0	34.7	2.0	5.6
193	27.0	30.3	33.0	29.7	-6.0	-22.2
194	314.0	292.7	266.0	287.3	48.0	15.3
195	38.0	35.3	32.0	34.7	6.0	15.8
196	36.0	33.8	31.0	33.2	5.0	13.9
197	27.0	30.3	33.0	29.7	-6.0	-22.2
198	27.0	26.7	26.0	26.3	1.0	3.7
199	54.0	48.4	42.0	47.6	12.0	22.2
200	522.0	483.9	437.0	475.1	85.0	16.3
201	48.0	44.9	41.0	44.1	7.0	14.6
202	48.0	47.0	47.0	47.1	1.0	2.1
203	52.0	54.5	56.0	53.5	-4.0	-7.7
204	40.0	39.9	39.0	39.1	1.0	2.5
205	32.0	35.8	39.0	35.2	-7.0	-21.4
206	72.0	74.2	79.0	74.8	-7.0	-9.7
207	333.0	317.4	296.0	311.6	37.0	11.1
208	42.0	45.9	43.0	45.1	5.0	10.4
209	39.0	41.4	43.0	40.6	-4.0	-10.3
210	52.0	51.5	50.0	50.5	2.0	3.8
211	32.0	31.8	31.0	31.2	1.0	3.1
212	56.0	51.0	45.0	50.0	11.0	19.6
213	164.0	145.8	125.0	143.2	39.0	23.8
214	55.0	62.1	68.0	60.9	-13.0	-23.6
215	112.0	120.6	127.0	118.4	-15.0	-13.4
216	36.0	35.8	35.0	35.2	1.0	2.8
217	27.0	25.7	24.0	25.3	3.0	11.1
218	44.0	46.9	49.0	46.1	-5.0	-11.4
219	26.0	28.8	31.0	28.2	-5.0	-19.2
220	71.0	69.1	66.0	67.9	5.0	7.0
221	116.0	124.6	131.0	122.4	-15.0	-12.4
222	53.0	55.0	56.0	54.0	-3.0	-5.7
223	26.0	27.8	29.0	27.2	-3.0	-11.5
224	63.0	64.6	65.0	63.4	-2.0	-3.2
225	30.0	29.8	29.0	29.2	1.0	3.4

226	38.0	38.4	38.0	37.6	0.0	0.0
227	26.0	25.2	24.0	24.8	2.0	7.7
228	40.0	44.9	49.0	44.1	-9.0	-22.5
229	62.0	56.5	50.0	55.5	12.0	19.4
230	30.0	28.3	26.0	27.7	4.0	13.3
231	55.0	57.5	59.0	56.5	-4.0	-7.3
232	30.0	27.2	24.0	26.8	6.0	20.0
233	30.0	31.8	33.0	31.2	-3.0	-10.0
234	32.0	32.8	33.0	32.2	-1.0	-3.1
235	36.0	32.8	29.0	32.2	7.0	19.4
236	88.0	86.8	84.0	85.2	4.0	4.5
237	24.0	24.7	25.0	24.3	-1.0	-4.2
238	32.0	34.8	37.0	34.2	-5.0	-15.6
239	26.0	24.2	22.0	23.8	4.0	15.4
240	31.0	33.3	35.0	32.7	-4.0	-12.9
241	49.0	50.0	50.0	49.0	-1.0	-2.0
242	49.0	51.0	52.0	50.0	-3.0	-6.1
243	178.0	200.8	220.0	197.2	-42.0	-23.6
244	27.0	27.2	27.0	26.8	0.0	0.0
245	40.0	44.4	48.0	43.6	-8.0	-20.0
246	44.0	50.0	55.0	49.0	-11.0	-25.0
247	144.0	143.8	141.0	141.2	3.0	2.1
248	44.0	48.9	53.0	48.1	-9.0	-20.5
249	56.0	52.5	48.0	51.5	8.0	14.3
250	32.0	36.3	40.0	35.7	-8.0	-25.0
251	26.0	27.8	29.0	27.2	-3.0	-11.5
252	27.0	24.7	22.0	24.3	5.0	18.5
253	36.0	37.8	39.0	37.2	-3.0	-8.3
254	30.0	31.8	33.0	31.2	-3.0	-10.0
255	72.0	72.7	72.0	71.3	0.0	0.0
256	40.0	37.3	34.0	36.7	6.0	15.0
257	24.0	25.7	27.0	25.3	-3.0	-12.5
258	30.0	31.3	32.0	30.7	-2.0	-6.7
259	32.0	35.3	38.0	34.7	-6.0	-19.7
260	48.0	52.0	55.0	51.0	-7.0	-14.6
261	32.0	34.8	37.0	34.2	-5.0	-15.6
262	64.0	64.6	64.0	63.4	0.0	0.0
263	34.0	31.8	29.0	31.2	5.0	14.7
264	28.0	28.8	29.0	28.2	-1.0	-3.6
265	52.0	52.0	51.0	51.0	1.0	1.9
266	52.0	52.0	51.0	51.0	1.0	1.9
267	96.0	106.0	114.0	104.0	-18.0	-18.7
268	112.0	116.6	119.0	114.4	-7.0	-6.3
269	40.0	39.4	38.0	38.6	2.0	5.0
270	64.0	61.6	58.0	60.4	6.0	9.4
271	24.0	26.7	29.0	26.3	-5.0	-20.8
272	44.0	41.9	39.0	41.1	5.0	11.4
273	26.0	29.3	32.0	28.7	-6.0	-23.1
274	61.0	66.6	71.0	65.4	-10.0	-16.4
275	26.0	27.2	28.0	26.8	-2.0	-7.7
276	29.0	31.8	34.0	31.2	-5.0	-17.2
277	169.0	160.5	149.0	157.5	20.0	11.8
278	210.0	189.7	166.0	186.3	44.0	21.0
279	64.0	60.6	56.0	59.4	8.0	12.5
280	52.0	52.0	51.0	51.0	1.0	1.9
281	28.0	27.2	26.0	26.8	2.0	7.1
282	32.0	33.8	35.0	33.2	-3.0	-9.4
283	72.0	77.7	82.0	76.3	-10.0	-13.9
284	32.0	29.3	26.0	28.7	6.0	19.7
285	85.0	94.4	102.0	92.6	-17.0	-20.0
286	84.0	89.8	94.0	88.2	-10.0	-11.9

287	192.0	172.6	150.0	169.4	42.0	21.9
288	32.0	33.3	34.0	32.7	-2.0	-4.3
289	24.0	26.2	28.0	25.8	-4.0	-16.1
290	44.0	45.4	46.0	44.6	-2.0	-4.5
291	32.0	31.8	31.0	31.2	1.0	3.1
292	32.0	34.3	36.0	33.7	-4.0	-12.5
293	24.0	25.7	27.0	25.3	-3.0	-12.5
294	72.0	65.1	57.0	63.9	15.0	20.8
295	57.0	64.6	71.0	63.4	-14.0	-24.6
296	46.0	48.4	50.0	47.6	-4.0	-8.7
297	30.0	28.3	26.0	27.7	4.0	13.3
298	40.0	39.9	39.0	39.1	1.0	2.5
299	90.0	93.9	96.0	92.1	-6.0	-6.7
300	50.0	54.5	58.0	53.5	-8.0	-16.0
301	55.0	51.5	47.0	50.5	8.0	14.5
302	90.0	88.8	86.0	87.2	4.0	4.4
303	42.0	46.9	51.0	46.1	-9.0	-21.4
304	33.0	32.8	32.0	32.2	1.0	3.0
305	72.0	64.1	55.0	62.9	17.0	23.6
306	31.0	33.3	35.0	32.7	-4.0	-12.9
307	105.0	108.0	109.0	106.0	-4.0	-3.8
308	26.0	23.2	20.0	22.8	6.0	23.1
309	180.0	182.2	181.0	178.8	-1.0	-6
310	204.0	193.8	180.0	190.2	24.0	11.8
311	89.0	80.2	70.0	78.8	19.0	21.3
312	32.0	35.8	39.0	35.2	-7.0	-21.9
313	68.0	68.1	67.0	66.9	1.0	1.5
314	32.0	29.3	24.0	27.7	8.0	25.0
315	56.0	61.6	66.0	60.4	-10.0	-17.9
316	33.0	35.3	37.0	34.7	-4.0	-12.1
317	96.0	103.4	109.0	101.6	-13.0	-13.5
318	39.0	41.4	43.0	40.6	-4.0	-10.3
319	64.0	72.2	79.0	70.8	-15.0	-23.4
320	106.0	113.0	118.0	111.0	-12.0	-11.3
321	26.0	29.3	32.0	28.7	-6.0	-23.1
322	204.0	230.1	252.0	225.9	-48.0	-23.5
323	221.0	236.7	248.0	232.3	-27.0	-12.2
324	72.0	64.6	56.0	63.4	16.0	22.2
325	37.0	33.3	29.0	32.7	8.0	21.6
326	80.0	82.3	83.0	80.7	-3.0	-3.8
327	52.0	48.9	45.0	48.1	7.0	13.5
328	80.0	82.3	83.0	80.7	-3.0	-3.8
329	33.0	34.8	36.0	34.2	-3.0	-9.1
330	128.0	130.7	131.0	128.3	-3.0	-2.3
331	36.0	34.8	33.0	34.2	3.0	8.3
332	84.0	80.2	75.0	78.8	9.0	10.7
333	40.0	41.9	43.0	41.1	-3.0	-7.5
334	34.0	36.3	38.0	35.7	-4.0	-11.8
335	47.0	50.5	53.0	49.5	-6.0	-12.8
336	188.0	174.6	158.0	171.4	30.0	16.0
337	26.0	27.8	29.0	27.2	-3.0	-11.5
338	45.0	48.9	52.0	48.1	-7.0	-15.6
339	228.0	203.4	175.0	199.6	53.0	23.2
340	272.0	245.2	214.0	240.8	58.0	21.3
341	144.0	141.8	137.0	139.2	7.0	4.9
342	48.0	52.5	56.0	51.5	-8.0	-16.7
343	76.0	78.7	80.0	77.3	-4.0	-5.3
344	60.0	65.1	69.0	63.9	-9.0	-15.0
345	44.0	41.9	39.0	41.1	5.0	11.4
346	80.0	85.3	89.0	83.7	-9.0	-11.3
347	56.0	62.6	68.0	61.4	-12.0	-21.4

348	132.0	125.1	116.0	122.9	16.0	12.1
349	55.0	50.0	44.0	49.0	11.0	20.0
350	75.0	76.7	77.0	75.3	-2.0	-2.7
351	27.0	28.8	30.0	28.2	-3.0	-11.1
352	27.0	24.7	22.0	24.3	5.0	18.5
353	36.0	40.4	44.0	39.6	-8.0	-22.2
354	36.0	32.8	29.0	32.2	7.0	19.4
355	45.0	46.9	48.0	46.1	-3.0	-6.7
356	67.0	62.1	56.0	60.9	11.0	16.4
357	28.0	29.3	30.0	28.7	-2.0	-7.1
358	71.0	65.6	59.0	64.4	12.0	16.9
359	30.0	31.3	32.0	30.7	-2.0	-6.7
360	32.0	31.8	31.0	31.2	1.0	3.1
361	28.0	31.8	35.0	31.2	-7.0	-25.0
362	26.0	25.7	25.0	25.3	1.0	3.8
363	28.0	27.2	26.0	26.8	2.0	7.1
364	56.0	53.0	49.0	52.0	7.0	12.5
365	40.0	37.3	34.0	36.7	6.0	15.0
366	40.0	43.9	47.0	43.1	-7.0	-17.5
367	32.0	35.3	38.0	34.7	-6.0	-16.7
368	120.0	116.1	110.0	113.9	10.0	8.3
369	36.0	38.9	41.0	38.1	-5.0	-13.9
370	32.0	33.3	34.0	32.7	-2.0	-6.3
371	48.0	44.4	40.0	43.6	8.0	16.7
372	36.0	33.3	30.0	32.7	6.0	16.7
373	52.0	50.5	48.0	49.5	4.0	7.7
374	32.0	29.8	27.0	29.2	5.0	15.6
375	32.0	31.8	31.0	31.2	1.0	3.1
376	48.0	53.0	57.0	52.0	-9.0	-18.7
377	48.0	48.9	49.0	48.1	-1.0	-2.1
378	48.0	48.9	49.0	48.1	-1.0	-2.1
379	24.0	25.2	26.0	24.8	-2.0	-8.3
380	24.0	26.2	28.0	25.8	-4.0	-16.7
381	42.0	45.9	49.0	45.1	-7.0	-16.7
382	22.0	24.7	27.0	24.3	-5.0	-22.7
383	31.0	30.8	30.0	30.2	1.0	3.2
384	32.0	35.8	39.0	35.2	-7.0	-21.9
385	56.0	59.5	62.0	58.5	-6.0	-10.7
386	80.0	74.2	67.0	72.8	13.0	16.3
387	40.0	35.3	30.0	34.7	10.0	25.0
388	28.0	26.7	25.0	26.3	3.0	10.7
389	42.0	42.4	42.0	41.6	0.0	0.0
390	27.0	23.7	20.0	23.3	7.0	25.9
391	40.0	43.9	47.0	43.1	-7.0	-17.5
392	41.0	40.4	39.0	39.6	2.0	4.9
393	24.0	26.7	29.0	26.3	-5.0	-20.8
394	395.0	374.9	348.0	368.1	47.0	11.9
395	108.0	121.1	132.0	118.9	-24.0	-22.2
396	36.0	35.8	35.0	35.2	1.0	2.8
397	36.0	36.3	36.0	35.7	0.0	0.0
398	934.0	1036.5	1120.0	1017.5	-186.0	-19.9
399	278.0	304.3	325.0	298.7	-47.0	-16.9
400	66.0	69.1	71.0	67.9	-5.0	-7.6
401	104.0	98.9	92.0	97.1	12.0	11.5
402	40.0	36.8	33.0	36.2	7.0	17.5
403	25.0	26.2	27.0	25.8	-2.0	-8.0
404	33.0	35.8	38.0	35.2	-5.0	-15.2
405	596.0	664.1	720.0	651.9	-124.0	-20.8
406	132.0	134.7	135.0	132.3	-3.0	-2.3
407	28.0	30.3	32.0	29.7	-4.0	-14.3
408	32.0	32.3	32.0	31.7	0.0	0.0

409	81.0	88.8	95.0	87.2	-14.0	-17.3
410	60.0	63.1	65.0	61.9	-5.0	-8.3
411	258.0	228.1	194.0	243.9	64.0	26.8
412	79.0	78.2	76.0	76.8	3.0	3.8
413	28.0	24.7	21.0	24.3	7.0	25.0
414	38.0	34.8	31.0	34.2	7.0	18.4
415	27.0	26.2	25.0	25.8	2.0	7.6
416	160.0	143.8	125.0	141.2	35.0	21.9
417	61.0	66.6	71.0	65.4	-10.0	-16.4
418	162.0	165.5	166.0	162.5	-4.0	-2.5
419	40.0	37.3	34.0	36.7	6.0	15.0
420	36.0	34.8	33.0	34.2	3.0	8.3
421	22.0	24.2	26.0	23.8	-4.0	-18.2
422	36.0	33.3	30.0	32.7	6.0	16.7
423	25.0	27.2	29.0	26.8	-4.0	-16.0
424	992.0	991.6	973.0	973.4	19.0	1.9
425	231.0	241.2	247.0	236.8	-16.0	-6.9
426	124.0	109.5	93.0	107.5	31.0	25.0
427	25.0	26.2	27.0	25.8	-2.0	-8.0
428	313.0	340.1	361.0	333.4	-48.0	-15.3
429	92.0	81.7	70.0	80.3	22.0	23.9
430	30.0	27.8	25.0	27.2	5.0	16.7
431	35.0	36.8	38.0	36.2	-3.0	-8.6
432	61.0	62.1	62.0	60.9	-1.0	-1.6
433	43.0	44.4	45.0	43.6	-2.0	-4.7
434	228.0	220.5	209.0	216.5	19.0	8.3
435	43.0	45.9	48.0	45.1	-5.0	-11.5
436	27.0	29.3	31.0	28.7	-4.0	-14.8
437	27.0	29.3	31.0	28.7	-4.0	-14.8
438	141.0	141.8	140.0	139.2	1.0	.7
439	79.0	88.8	97.0	87.2	-18.0	-22.8
440	93.0	92.3	90.0	90.7	3.0	3.2
441	169.0	156.9	142.0	154.1	27.0	16.0
442	41.0	44.9	48.0	44.1	-7.0	-17.1
443	68.0	69.1	69.0	67.9	-1.0	-1.5
444	79.0	88.8	97.0	87.2	-18.0	-22.8
445	48.0	43.9	39.0	43.1	9.0	18.7
446	43.0	40.9	38.0	40.1	5.0	11.6
447	24.0	26.7	29.0	26.3	-5.0	-20.8
448	40.0	42.9	45.0	42.1	-5.0	-12.5
449	31.0	30.3	29.0	29.7	2.0	6.5
450	54.0	51.0	45.0	50.0	11.0	19.6
451	33.0	34.3	35.0	33.7	-2.0	-6.1
452	88.0	83.8	78.0	82.2	10.0	11.6
453	42.0	46.9	51.0	46.1	-9.0	-21.4
454	34.0	37.8	41.0	37.2	-7.0	-20.6
455	340.0	307.3	269.0	301.7	71.0	20.9
456	136.0	140.3	142.0	137.7	-6.0	-4.4
457	112.0	119.6	125.0	117.4	-13.0	-11.6
458	56.0	61.1	65.0	59.9	-9.0	-16.1
459	28.0	31.3	34.0	30.7	-6.0	-21.4
460	35.0	36.3	37.0	35.7	-2.0	-5.7
461	1024.0	956.8	872.0	939.2	152.0	14.8
462	152.0	138.8	123.0	136.2	29.0	19.1
463	104.0	98.9	92.0	97.1	12.0	11.5
464	2303.0	2235.0	2126.0	2194.0	177.0	7.7
465	331.0	332.5	328.0	326.5	3.0	.9
466	54.0	60.0	61.0	59.0	-3.0	-5.2
467	135.0	137.8	138.0	135.2	-3.0	-2.2
468	1240.0	1127.3	994.0	1106.7	246.0	19.8
469	168.0	151.9	133.0	149.1	35.0	20.8

470	48.0	51.0	57.0	52.0	-9.0	-18.7
471	84.0	87.3	89.0	85.7	-5.0	-6.0
472	25.0	23.7	22.0	23.3	3.0	12.0
473	76.0	79.2	81.0	77.8	-5.0	-6.6
474	25.0	25.2	25.0	24.8	0.0	0.0
475	103.0	102.9	101.0	101.1	2.0	1.9
476	22.0	23.7	25.0	23.3	-3.0	-13.6
477	78.0	78.7	78.0	77.3	0.0	0.0
478	261.0	261.9	258.0	257.1	3.0	1.1
479	55.0	60.0	64.0	59.0	-9.0	-16.4
480	72.0	79.2	85.0	77.8	-13.0	-18.1
481	23.0	24.7	26.0	24.3	-3.0	-13.0
482	315.0	322.5	324.0	316.5	-9.0	-2.9
483	79.0	74.7	69.0	73.3	10.0	12.7
484	65.0	62.1	58.0	60.9	7.0	10.8
485	70.0	64.1	57.0	62.9	13.0	18.6
486	31.0	32.3	33.0	31.7	-2.0	-6.5
487	49.0	54.5	59.0	53.5	-10.0	-20.4
488	28.0	29.3	30.0	28.7	-2.0	-7.1
489	21.0	23.2	25.0	22.8	-4.0	-19.0
490	49.0	46.9	44.0	46.1	5.0	10.2
491	31.0	28.3	25.0	27.7	6.0	19.4
492	40.0	35.8	31.0	35.2	9.0	22.5
493	726.0	720.6	702.0	707.4	24.0	3.3
494	312.0	279.1	241.0	273.9	71.0	22.8
495	56.0	57.0	57.0	56.0	-1.0	-1.8
496	154.0	147.9	139.0	145.1	15.0	9.7
497	27.0	27.2	27.0	26.8	0.0	0.0
498	2970.0	2797.6	2574.0	2746.4	396.0	13.3
499	330.0	363.8	391.0	357.2	-61.0	-18.5
500	318.0	351.2	378.0	344.8	-60.0	-18.9
501	82.0	95.4	101.0	93.6	-13.0	-14.8
502	88.0	92.3	95.0	90.7	-7.0	-8.0
503	89.0	84.8	79.0	83.2	10.0	11.2
504	31.0	31.3	31.0	30.7	0.0	0.0
505	50.0	50.0	49.0	49.0	1.0	2.0
506	38.0	34.3	30.0	33.7	8.0	21.1
507	112.0	117.6	121.0	115.4	-9.0	-8.0
508	28.0	27.2	26.0	26.8	2.0	7.1
509	32.0	33.3	34.0	32.7	-2.0	-6.3
510	32.0	28.8	25.0	28.2	7.0	21.9
511	32.0	36.3	40.0	35.7	-8.0	-25.0
512	32.0	33.3	34.0	32.7	-2.0	-6.3
513	60.0	61.6	62.0	60.4	-2.0	-3.3
514	168.0	153.9	137.0	151.1	31.0	18.5
515	68.0	70.1	71.0	68.9	-3.0	-4.4
516	30.0	28.3	26.0	27.7	4.0	13.3
517	65.0	60.0	54.0	59.0	11.0	16.9
518	111.0	112.0	111.0	110.0	0.0	0.0
519	48.0	53.0	57.0	52.0	-9.0	-18.7
520	90.0	88.8	86.0	87.2	4.0	4.4
521	31.0	30.3	29.0	29.7	2.0	6.5
522	36.0	35.3	34.0	34.7	2.0	5.6
523	31.0	28.8	26.0	28.2	5.0	16.1
524	28.0	29.3	30.0	28.7	-2.0	-7.1
525	132.0	142.8	151.0	140.2	-19.0	-14.4
526	36.0	36.8	37.0	36.2	-1.0	-2.8
527	154.0	174.6	192.0	171.4	-38.0	-24.7
528	24.0	25.2	26.0	24.8	-2.0	-8.3
529	24.0	25.7	27.0	25.3	-3.0	-12.5
530	292.0	291.2	285.0	285.8	7.0	2.4

531	60.0	64.6	68.0	63.4	-8.0	-13.3
532	200.0	197.8	192.0	194.2	8.0	4.0
533	36.0	39.4	42.0	38.6	-6.0	-16.7
534	48.0	45.4	42.0	44.6	6.0	12.5

AVERAGE DIFFERENCE IN OBS. FREQ.	=	10.5
AVERAGE PERCENTAGE DIFFERENCE	=	12.2
ROOT MEAN SQUARE ERROR	=	28.05
T-VALUE FOR PAIRED COMPARISON	=	1.30

RAW CHI-SQUARE = 467.501 WITH 533 DEGREES OF FREEDOM

T-VALUE = -2.057

CUT-OFF VALUE = 100.000 (GLATDS vs Employee Survey, Zone-Tract)

THERE ARE 102 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 26858
OTHR SURVEY TOTAL = 27146

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCI.DIFF
1	98.0	110.4	124.0	111.6	-26.0	-26.5
2	104.0	114.9	127.0	116.1	-23.0	-22.1
3	97.0	104.4	113.0	105.6	-16.0	-16.5
4	117.0	131.8	148.0	133.2	-31.0	-26.5
5	109.0	102.0	96.0	103.0	13.0	11.9
6	103.0	97.5	93.0	98.5	10.0	9.7
7	104.0	126.8	151.0	128.2	-47.0	-45.2
8	92.0	108.9	127.0	110.1	-35.0	-38.0
9	84.0	92.5	102.0	93.5	-18.0	-21.4
10	108.0	106.0	107.0	108.1	1.0	.9
11	224.0	228.3	235.0	230.7	-11.0	-4.9
12	114.0	114.9	121.0	118.1	-7.0	-6.1
13	160.0	144.7	131.0	146.3	29.0	18.1
14	120.0	113.0	109.0	115.1	11.0	9.2
15	95.0	100.0	106.0	101.0	-11.0	-11.6
16	218.0	200.9	186.0	203.1	32.0	14.7
17	114.0	102.0	93.0	104.1	21.0	18.4
18	137.0	130.3	125.0	131.7	12.0	8.8
19	69.0	84.0	100.0	85.0	-31.0	-44.9
20	91.0	100.9	130.0	111.1	-39.0	-42.9
21	108.0	124.8	143.0	126.2	-35.0	-32.4
22	142.0	148.7	157.0	150.3	-15.0	-10.6
23	183.0	177.1	173.0	178.9	10.0	5.5
24	117.0	118.9	122.0	120.1	-5.0	-4.3
25	108.0	114.4	122.0	115.6	-14.0	-13.0
26	106.0	102.0	99.0	103.0	7.0	6.6
27	184.0	199.9	218.0	202.1	-34.0	-18.5
28	117.0	103.9	92.0	105.1	25.0	21.4
29	261.0	247.7	237.0	250.3	24.0	9.2
30	314.0	299.4	288.0	302.6	26.0	8.3
31	522.0	458.0	399.0	463.0	123.0	23.6
32	333.0	352.6	376.0	356.4	-43.0	-12.9
33	164.0	169.6	177.0	171.4	-13.0	-7.9
34	112.0	110.9	111.0	112.1	1.0	.9
35	116.0	142.2	170.0	143.8	-54.0	-46.5
36	174.0	167.1	158.0	168.9	20.0	11.2
37	144.0	160.1	178.0	161.9	-34.0	-23.6
38	112.0	106.4	102.0	107.6	10.0	8.9
39	169.0	153.7	140.0	155.3	29.0	17.2
40	210.0	198.9	190.0	201.1	20.0	9.5
41	192.0	190.5	191.0	192.5	1.0	.5
42	105.0	105.4	107.0	106.6	-2.0	-1.9

43	190.0	153.4	219.0	200.6	-39.0	-21.7
44	204.0	222.8	244.0	225.2	-40.0	-19.6
45	106.0	111.0	83.0	95.0	23.0	21.7
46	204.0	151.5	187.0	196.5	17.0	8.3
47	221.0	211.4	204.0	213.6	17.0	7.7
48	128.0	131.8	137.0	133.2	-9.0	-7.0
49	188.0	214.4	223.0	206.6	-35.0	-18.6
50	228.0	157.9	174.0	202.1	54.0	23.7
51	272.0	207.2	225.0	249.8	47.0	17.3
52	144.0	153.1	184.0	164.9	-40.0	-27.8
53	132.0	121.8	113.0	123.2	19.0	14.4
54	120.0	139.3	160.0	140.7	-40.0	-33.3
55	395.0	352.1	313.0	355.9	82.0	20.8
56	108.0	111.9	117.0	113.1	-9.0	-8.3
57	934.0	1071.3	1220.0	1082.7	-286.0	-30.6
58	278.0	239.2	203.0	241.8	75.0	27.0
59	104.0	99.5	96.0	100.5	8.0	7.7
60	596.0	714.7	825.0	714.3	-229.0	-38.4
61	132.0	106.9	83.0	108.1	49.0	37.1
62	258.0	224.4	334.0	297.6	-76.0	-29.5
63	160.0	173.6	189.0	175.4	-29.0	-18.1
64	162.0	150.7	141.0	152.3	21.0	13.0
65	992.0	822.1	861.0	830.9	331.0	33.4
66	231.0	260.1	292.0	262.9	-61.0	-26.6
67	124.0	134.8	147.0	136.2	-23.0	-18.5
68	313.0	371.0	433.0	375.0	-120.0	-38.3
69	228.0	180.0	134.0	182.0	94.0	41.2
70	141.0	114.9	90.0	116.1	51.0	36.2
71	93.0	106.9	122.0	108.1	-29.0	-31.2
72	169.0	148.7	130.0	150.3	39.0	23.1
73	79.0	90.0	102.0	91.0	-23.0	-29.1
74	340.0	297.9	263.0	303.1	77.0	22.6
75	136.0	151.7	169.0	153.3	-33.0	-24.3
76	112.0	90.0	69.0	91.0	43.0	38.8
77	1024.0	1099.7	1165.0	1100.3	-141.0	-13.8
78	152.0	161.6	173.0	163.4	-21.0	-13.8
79	104.0	120.4	138.0	121.6	-34.0	-32.7
80	2303.0	2487.2	2698.0	2513.8	-395.0	-17.2
81	331.0	286.0	244.0	289.0	87.0	26.3
82	135.0	135.8	138.0	137.2	-3.0	-2.2
83	1240.0	972.3	715.0	982.7	525.0	42.3
84	168.0	144.2	122.0	145.8	46.0	27.4
85	103.0	99.5	97.0	100.5	6.0	5.8
86	261.0	241.7	225.0	244.3	36.0	13.8
87	315.0	366.0	421.0	370.0	-106.0	-33.7
88	726.0	714.7	711.0	722.3	15.0	2.1
89	312.0	224.2	281.0	298.1	31.0	9.9
90	154.0	175.6	199.0	177.4	-45.0	-29.2
91	2976.0	2927.8	2917.0	2959.2	53.0	1.8
92	330.0	375.0	424.0	379.0	-94.0	-28.5
93	318.0	381.0	448.0	385.0	-130.0	-40.9
94	88.0	95.0	103.0	96.0	-15.0	-17.0
95	88.0	105.9	125.0	107.1	-37.0	-42.0
96	112.0	102.0	93.0	103.0	19.0	17.0
97	168.0	136.8	107.0	138.2	61.0	36.3
98	111.0	102.0	94.0	103.0	17.0	15.3
99	132.0	113.4	96.0	114.6	36.0	27.3
100	154.0	128.3	104.0	129.7	50.0	32.5
101	292.0	367.9	313.0	304.1	-21.0	-7.2
102	200.0	216.3	235.0	218.7	-35.0	-17.5

AVERAGE DIFFERENCE IN OBS. FREQ. =	50.9
AVERAGE PERCENTAGE DIFFERENCE =	20.2
ROOT MEAN SQUARE ERROR =	92.88
T-VALUE FOR PAIRED COMPARISON =	-.31

RAW CHI-SQUARE = 739.309 WITH 101 DEGREES OF FREEDOM

T-VALUE = 24.275

CUT-OFF VALUE = 50.000 (GLATDS vs Employee Survey, Zone-Tract)

THERE ARE 255 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 36853
OTHER SURVEY TOTAL = 36939

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF.	PCI.DIFF.
1	69.0	73.9	79.0	74.1	-10.0	-14.5
2	90.0	90.4	91.0	90.6	-1.0	-1.1
3	60.0	61.4	63.0	61.6	-3.0	-5.0
4	68.0	57.4	47.0	57.6	21.0	30.9
5	58.0	48.4	39.0	48.6	19.0	32.8
6	92.0	78.9	66.0	79.1	26.0	28.3
7	48.0	50.9	54.0	51.1	-6.0	-12.5
8	98.0	110.9	124.0	111.1	-26.0	-26.5
9	104.0	115.4	127.0	115.6	-23.0	-22.1
10	97.0	104.9	113.0	105.1	-16.0	-16.5
11	117.0	132.3	148.0	132.7	-31.0	-26.5
12	61.0	61.9	63.0	62.1	-2.0	-3.3
13	109.0	102.4	96.0	102.6	13.0	11.9
14	103.0	97.9	93.0	98.1	10.0	9.7
15	65.0	64.9	65.0	65.1	0.0	0.0
16	77.0	80.9	85.0	81.1	-8.0	-10.4
17	104.0	127.4	151.0	127.6	-47.0	-45.2
18	68.0	58.9	50.0	59.1	18.0	26.5
19	49.0	54.9	61.0	55.1	-12.0	-24.5
20	92.0	109.4	127.0	109.6	-35.0	-39.0
21	60.0	55.4	51.0	55.6	9.0	15.0
22	84.0	92.9	102.0	93.1	-18.0	-21.4
23	108.0	107.4	107.0	107.6	1.0	.9
24	224.0	229.2	235.0	229.8	-11.0	-4.9
25	48.0	51.9	56.0	52.1	-8.0	-16.7
26	96.0	94.4	93.0	94.6	3.0	3.1
27	56.0	49.4	43.0	49.6	13.0	23.2
28	61.0	58.9	57.0	59.1	4.0	6.6
29	52.0	53.4	55.0	53.6	-3.0	-5.8
30	114.0	117.4	121.0	117.6	-7.0	-6.1
31	48.0	54.9	62.0	55.1	-14.0	-29.2
32	72.0	80.9	90.0	81.1	-18.0	-25.0
33	84.0	72.9	62.0	73.1	22.0	26.2
34	70.0	79.4	89.0	79.6	-19.0	-27.1
35	72.0	61.4	51.0	61.6	21.0	29.2
36	160.0	145.3	131.0	145.7	29.0	18.1
37	75.0	84.4	94.0	84.6	-19.0	-25.3
38	120.0	114.4	109.0	114.6	11.0	9.2
39	63.0	63.9	65.0	64.1	-2.0	-3.2
40	66.0	64.4	63.0	64.6	3.0	4.5
41	95.0	100.4	106.0	100.6	-11.0	-11.6
42	55.0	50.9	47.0	51.1	8.0	14.5

43	83.0	89.9	97.0	90.1	-14.0	-16.9
44	210.0	201.8	186.0	202.2	32.0	14.7
45	96.0	78.9	62.0	79.1	34.0	35.4
46	82.0	79.4	77.0	79.6	5.0	6.1
47	97.0	84.4	72.0	84.6	25.0	25.8
48	54.0	55.9	58.0	56.1	-4.0	-7.4
49	60.0	55.9	52.0	56.1	8.0	13.3
50	96.0	93.9	92.0	94.1	4.0	4.2
51	114.0	103.4	93.0	103.6	21.0	18.4
52	137.0	130.8	125.0	131.2	12.0	8.8
53	63.0	60.4	58.0	60.6	5.0	7.9
54	67.0	84.4	100.0	84.6	-31.0	-44.9
55	71.0	76.9	83.0	77.1	-12.0	-16.9
56	91.0	110.4	130.0	110.6	-39.0	-42.9
57	103.0	125.4	143.0	125.6	-35.0	-32.4
58	86.0	79.9	74.0	80.1	12.0	14.0
59	142.0	149.3	157.0	149.7	-15.0	-10.6
60	183.0	177.8	173.0	178.2	10.0	5.5
61	64.0	70.4	77.0	70.6	-13.0	-20.3
62	117.0	119.4	122.0	119.6	-5.0	-4.3
63	45.0	53.4	62.0	53.6	-17.0	-37.8
64	56.0	61.4	67.0	61.6	-11.0	-19.6
65	81.0	74.4	68.0	74.6	13.0	16.0
66	102.0	114.9	122.0	115.1	-14.0	-13.0
67	67.0	72.4	78.0	72.6	-11.0	-16.4
68	106.0	102.4	99.0	102.6	7.0	6.6
69	71.0	65.9	61.0	66.1	10.0	14.1
70	184.0	200.8	218.0	201.2	-34.0	-18.5
71	96.0	92.4	89.0	92.6	7.0	7.3
72	53.0	54.9	57.0	55.1	-4.0	-7.5
73	86.0	82.4	79.0	82.6	7.0	8.1
74	48.0	49.9	52.0	50.1	-4.0	-8.3
75	60.0	61.4	63.0	61.6	-3.0	-5.0
76	90.0	73.4	57.0	73.6	33.0	36.7
77	57.0	68.4	80.0	68.6	-23.0	-40.4
78	117.0	104.4	92.0	104.6	25.0	21.4
79	47.0	53.9	61.0	54.1	-14.0	-29.8
80	261.0	248.7	237.0	249.3	24.0	9.2
81	54.0	47.4	41.0	47.6	13.0	24.1
82	36.0	42.9	50.0	43.1	-14.0	-38.9
83	314.0	300.6	288.0	301.4	26.0	8.3
84	54.0	55.9	58.0	56.1	-4.0	-7.4
85	522.0	460.0	399.0	461.0	123.0	23.6
86	48.0	51.9	56.0	52.1	-8.0	-16.7
87	48.0	52.9	58.0	53.1	-10.0	-20.8
88	52.0	48.9	46.0	49.1	6.0	11.5
89	72.0	79.9	88.0	80.1	-16.0	-22.2
90	333.0	354.1	376.0	354.9	-43.0	-12.9
91	52.0	59.4	67.0	59.6	-15.0	-28.8
92	56.0	50.9	46.0	51.1	10.0	17.9
93	164.0	170.3	177.0	170.7	-13.0	-7.9
94	56.0	54.9	55.0	55.1	0.0	0.0
95	112.0	111.4	111.0	111.6	1.0	.9
96	71.0	82.4	94.0	82.6	-23.0	-32.9
97	114.0	142.8	170.0	143.2	-54.0	-46.6
98	53.0	50.9	49.0	51.1	4.0	7.5
99	63.0	54.9	51.0	57.1	12.0	19.0
100	62.0	61.4	61.0	61.6	1.0	1.6
101	85.0	54.4	54.0	54.6	1.0	1.8
102	88.0	77.9	68.0	78.1	20.0	22.7
103	40.0	53.9	59.0	54.1	-10.0	-20.2

104	178.0	167.8	158.0	168.2	20.0	11.2
105	144.0	160.8	178.0	161.2	-34.0	-23.6
106	54.0	53.4	51.0	53.6	5.0	9.4
107	72.0	66.9	62.0	67.1	10.0	13.4
108	64.0	72.4	81.0	72.6	-17.0	-26.6
109	52.0	63.4	75.0	63.6	-23.0	-44.2
110	52.0	63.4	75.0	63.6	-23.0	-44.2
111	96.0	94.9	94.0	95.1	2.0	2.1
112	112.0	106.9	102.0	107.1	10.0	9.9
113	40.0	45.4	51.0	45.6	-11.0	-27.5
114	64.0	53.4	43.0	53.6	21.0	32.8
115	61.0	63.4	66.0	63.6	-5.0	-8.2
116	169.0	154.3	140.0	154.7	29.0	17.2
117	210.0	199.8	190.0	200.2	20.0	9.5
118	64.0	66.9	70.0	67.1	-6.0	-9.4
119	52.0	50.9	50.0	51.1	2.0	3.8
120	72.0	62.4	53.0	62.6	19.0	26.8
121	85.0	84.9	85.0	85.1	0.0	0.0
122	84.0	66.9	50.0	67.1	34.0	40.5
123	192.0	191.3	191.0	191.7	1.0	0.5
124	72.0	66.9	62.0	67.1	10.0	13.9
125	57.0	48.4	40.0	48.6	17.0	29.8
126	46.0	48.9	52.0	49.1	-6.0	-13.0
127	90.0	84.9	80.0	85.1	10.0	11.1
128	50.0	45.9	42.0	46.1	8.0	16.0
129	55.0	51.9	49.0	52.1	6.0	10.9
130	90.0	84.9	80.0	85.1	10.0	11.1
131	42.0	48.4	55.0	48.6	-13.0	-31.0
132	72.0	72.9	74.0	73.1	-2.0	-2.8
133	105.0	105.9	107.0	106.1	-2.0	-1.9
134	180.0	199.3	219.0	199.7	-39.0	-21.7
135	204.0	223.7	244.0	224.3	-40.0	-19.6
136	89.0	82.9	77.0	83.1	12.0	13.5
137	68.0	69.4	71.0	69.6	-3.0	-4.8
138	56.0	47.9	40.0	48.1	16.0	29.6
139	96.0	89.9	84.0	90.1	12.0	12.5
140	64.0	59.9	54.0	59.1	10.0	15.6
141	104.0	94.4	83.0	94.6	23.0	21.7
142	204.0	195.3	187.0	195.7	17.0	9.3
143	221.0	212.3	204.0	212.7	17.0	7.7
144	72.0	70.9	70.0	71.1	2.0	2.8
145	80.0	77.4	75.0	77.6	5.0	6.3
146	52.0	54.4	57.0	54.6	-5.0	-9.6
147	80.0	79.9	78.0	79.1	2.0	2.5
148	128.0	132.3	137.0	132.7	-9.0	-7.0
149	84.0	71.9	60.0	72.1	24.0	28.6
150	47.0	50.9	55.0	51.1	-8.0	-17.0
151	189.0	205.3	223.0	205.7	-35.0	-18.6
152	228.0	209.8	174.0	201.2	54.0	23.7
153	272.0	249.2	225.0	248.8	47.0	17.3
154	144.0	163.8	184.0	164.2	-40.0	-27.8
155	76.0	73.9	72.0	74.1	4.0	5.3
156	60.0	50.9	42.0	51.1	18.0	30.0
157	80.0	74.4	69.0	74.6	11.0	13.8
158	56.0	54.4	53.0	54.6	3.0	5.4
159	132.0	122.4	113.0	122.6	19.0	14.4
160	55.0	47.9	41.0	48.1	14.0	25.5
161	75.0	65.4	56.0	65.6	19.0	25.3
162	45.0	53.9	63.0	54.1	-18.0	-40.0
163	67.0	76.4	86.0	76.6	-19.0	-28.4
164	71.0	80.9	91.0	81.1	-20.0	-28.2

145	56.0	60.9	66.0	61.1	-10.0	-17.9
146	120.0	139.8	160.0	140.2	-40.0	-33.3
147	52.0	51.4	51.0	51.6	1.0	1.9
148	48.0	48.9	50.0	49.1	-2.0	-4.2
149	48.0	53.9	60.0	54.1	-12.0	-25.0
170	56.0	49.9	44.0	50.1	12.0	21.9
171	80.0	64.9	50.0	65.1	30.0	37.9
172	40.0	46.9	54.0	47.1	-14.0	-35.0
173	41.0	46.4	52.0	46.6	-11.0	-26.8
174	395.0	353.6	313.0	354.4	82.0	20.8
175	108.0	112.4	117.0	112.6	-9.0	-8.3
176	934.0	1075.7	1220.0	1078.3	-286.0	-30.6
177	278.0	240.2	203.0	240.8	75.0	27.0
178	66.0	60.9	56.0	61.1	10.0	15.2
179	104.0	99.9	96.0	100.1	8.0	7.7
180	596.0	709.7	825.0	711.3	-229.0	-38.6
181	132.0	107.4	83.0	107.6	49.0	37.1
182	81.0	81.4	82.0	81.6	-1.0	-1.2
183	60.0	59.9	60.0	60.1	0.0	0.0
184	258.0	295.7	334.0	296.3	-76.0	-29.5
185	79.0	83.4	88.0	83.6	-9.0	-11.4
186	160.0	174.3	189.0	174.7	-29.0	-18.1
187	61.0	63.9	67.0	64.1	-6.0	-9.8
188	162.0	151.3	141.0	151.7	21.0	13.0
189	992.0	825.5	661.0	827.5	331.0	33.4
190	231.0	261.2	292.0	261.8	-61.0	-26.6
191	124.0	135.3	147.0	135.7	-23.0	-18.5
192	313.9	372.6	433.0	373.4	-120.0	-39.3
193	92.0	73.4	55.0	73.6	37.0	40.2
194	61.0	58.9	57.0	59.1	4.0	6.9
195	228.0	180.8	134.0	181.2	94.0	41.2
196	43.0	50.4	58.0	50.6	-15.0	-34.9
197	141.0	115.4	90.0	115.6	51.0	36.2
198	79.0	63.9	49.0	64.1	30.0	38.0
199	93.0	107.4	122.0	107.6	-29.0	-31.2
200	169.0	149.3	130.0	149.7	39.0	23.1
201	68.0	60.9	54.0	61.1	14.0	20.6
202	79.0	90.4	102.0	90.6	-23.0	-29.1
203	48.0	50.9	54.0	51.1	-6.0	-12.5
204	43.0	46.4	50.0	46.6	-7.0	-16.3
205	56.0	53.4	51.0	53.6	5.0	8.9
206	88.0	82.4	77.0	82.6	11.0	12.5
207	340.0	301.1	263.0	301.9	77.0	22.0
208	136.0	152.3	169.0	152.7	-33.0	-24.3
209	112.0	90.4	69.0	90.6	43.0	38.6
210	56.0	58.4	61.0	58.6	-5.0	-8.9
211	1024.0	1093.2	1165.0	1095.8	-141.0	-13.8
212	152.0	162.3	173.0	162.7	-21.0	-13.8
213	104.0	120.9	138.0	121.1	-34.0	-32.7
214	2303.0	2497.6	2698.0	2503.4	-395.0	-17.2
215	331.0	287.2	244.0	287.8	87.0	26.3
216	58.0	52.4	47.0	52.6	11.0	19.0
217	135.0	136.3	138.0	136.7	-3.0	-2.2
218	1240.0	976.4	715.0	978.6	525.0	42.3
219	168.0	144.8	122.0	145.2	46.0	27.4
220	84.0	68.4	53.0	68.6	31.0	36.9
221	76.0	84.9	98.0	87.1	-22.0	-28.9
222	103.0	99.9	97.0	100.1	6.0	5.8
223	78.0	70.4	63.0	70.6	15.0	19.2
224	261.0	242.7	225.0	243.3	36.0	13.8
225	55.0	61.9	69.0	62.1	-14.0	-25.9

226	72.0	85.4	99.0	85.6	-27.0	-37.5
227	315.0	367.6	421.0	368.4	-106.0	-33.7
228	79.0	81.4	84.0	81.6	-5.0	-6.3
229	65.0	68.4	72.0	68.6	-7.0	-10.8
230	70.0	59.9	50.0	60.1	20.0	24.6
231	49.0	60.4	72.0	60.6	-23.0	-46.9
232	726.0	717.7	711.0	719.3	15.0	2.1
233	312.0	296.2	281.0	296.8	31.0	9.9
234	56.0	54.9	54.0	55.1	2.0	3.6
235	154.0	174.3	199.0	176.7	-45.0	-29.2
236	2970.0	2940.1	2917.0	2946.9	53.0	1.8
237	330.0	376.6	424.0	377.4	-94.0	-29.5
238	318.0	382.6	448.0	383.4	-130.0	-40.9
239	88.0	95.4	103.0	95.6	-15.0	-17.0
240	88.0	104.4	125.0	106.6	-37.0	-42.0
241	89.0	79.4	70.0	79.6	19.0	21.3
242	50.0	50.9	52.0	51.1	-2.0	-4.0
243	112.0	102.4	93.0	102.6	19.0	17.0
244	60.0	68.4	77.0	68.6	-17.0	-28.3
245	168.0	137.3	107.0	137.7	61.0	36.3
246	68.0	67.9	68.0	68.1	0.0	0.0
247	65.0	61.4	58.0	61.6	7.0	10.8
248	111.0	102.4	94.0	102.6	17.0	15.3
249	90.0	92.4	95.0	92.6	-5.0	-5.6
250	132.0	113.9	96.0	114.1	36.0	27.3
251	154.0	128.8	104.0	129.2	50.0	32.5
252	292.0	302.1	313.0	302.9	-21.0	-7.2
253	60.0	61.9	64.0	62.1	-4.0	-6.7
254	206.0	217.2	235.0	217.8	-35.0	-17.5
255	48.0	48.9	50.0	49.1	-2.0	-4.2

AVERAGE DIFFERENCE IN ORS. FREQ. = 27.1
 AVERAGE PERCENTAGE DIFFERENCE = 18.6
 ROOT MEAN SQUARE ERROR = 59.73
 T-VALUE FOR PAIRED COMPARISON = -0.09

RAW CHI-SQUARE = 966.436 WITH 254 DEGREES OF FREEDOM

T-VALUE = 21.448

CUT-OFF VALUE = 25.000 (GLATDS vs Employee Survey, Zone-Tract)

THERE ARE 543 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOMF-INTERVIEW TOTAL = 46105
OTHER SURVEY TOTAL = 45794

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	RCI.DIFF
1	27.0	25.6	24.0	25.4	3.0	11.1
2	26.0	29.1	32.0	28.9	-6.0	-23.1
3	25.0	20.6	16.0	20.4	9.0	36.0
4	69.0	74.3	79.0	73.7	-10.0	-14.5
5	31.0	27.1	23.0	26.9	8.0	25.8
6	19.0	22.1	25.0	21.9	-6.0	-31.6
7	37.0	38.6	40.0	38.4	-3.0	-8.1
8	25.0	21.6	18.0	21.4	7.0	28.0
9	30.0	28.6	27.0	28.4	3.0	10.0
10	32.0	29.1	26.0	28.9	6.0	18.7
11	90.0	90.8	91.0	90.2	-1.0	-1.1
12	60.0	61.7	63.0	61.3	-3.0	-5.0
13	28.0	23.6	19.0	23.4	9.0	32.1
14	68.0	57.7	47.0	57.3	21.0	30.9
15	58.0	48.7	39.0	48.3	19.0	32.8
16	92.0	79.3	66.0	78.7	26.0	28.3
17	48.0	51.2	54.0	50.8	-6.0	-12.5
18	28.0	31.6	35.0	31.4	-7.0	-25.0
19	25.0	24.6	24.0	24.4	1.0	4.0
20	40.0	40.6	41.0	40.4	-1.0	-2.5
21	29.0	25.1	21.0	24.9	8.0	27.6
22	36.0	35.1	34.0	34.9	2.0	5.6
23	34.0	32.1	30.0	31.9	4.0	11.8
24	32.0	26.1	20.0	25.9	12.0	37.5
25	98.0	111.4	124.0	110.6	-26.0	-26.5
26	104.0	115.9	127.0	115.1	-23.0	-22.1
27	35.0	37.6	40.0	37.4	-5.0	-14.3
28	97.0	105.4	113.0	104.6	-16.0	-16.5
29	48.0	48.7	49.0	48.3	-1.0	-2.1
30	48.0	46.2	44.0	45.8	4.0	8.3
31	42.0	32.6	23.0	32.4	19.0	45.2
32	117.0	132.9	148.0	132.1	-31.0	-26.5
33	31.0	26.1	21.0	25.9	10.0	32.3
34	61.0	62.2	63.0	61.8	-2.0	-3.3
35	27.0	27.1	27.0	26.9	0.0	0.0
36	26.0	26.6	27.0	26.4	-1.0	-3.8
37	41.0	42.1	43.0	41.9	-2.0	-4.9
38	109.0	102.8	96.0	102.2	13.0	11.9
39	103.0	98.3	93.0	97.7	10.0	9.7
40	32.0	30.1	28.0	29.9	4.0	12.5
41	65.0	65.2	65.0	64.8	0.0	0.0
42	49.0	47.2	45.0	46.8	4.0	8.2

43	26.0	22.1	18.0	21.9	8.0	30.8
44	77.0	81.3	85.0	80.7	-8.0	-10.4
45	32.0	34.6	37.0	34.4	-5.0	-15.6
46	104.0	127.9	151.0	127.1	-47.0	-45.2
47	68.0	59.2	50.0	58.8	18.0	26.5
48	32.0	35.1	38.0	34.9	-6.0	-18.7
49	31.0	28.1	25.0	27.9	6.0	19.4
50	49.0	55.2	61.0	54.8	-12.0	-24.5
51	28.0	33.1	38.0	32.9	-10.0	-35.7
52	25.0	26.6	28.0	26.4	-3.0	-12.0
53	92.0	109.9	127.0	109.1	-35.0	-38.0
54	60.0	55.7	51.0	55.3	9.0	15.0
55	24.0	29.1	34.0	28.9	-10.0	-41.7
56	84.0	93.3	102.0	92.7	-18.0	-21.4
57	39.0	35.1	31.0	34.9	8.0	20.5
58	32.0	34.6	41.0	36.4	-9.0	-28.1
59	108.0	107.9	107.0	107.1	1.0	0.9
60	224.0	230.3	235.0	228.7	-11.0	-4.9
61	45.0	36.6	28.0	36.4	17.0	37.8
62	48.0	52.2	56.0	51.8	-8.0	-16.7
63	96.0	94.8	93.0	94.2	3.0	3.1
64	56.0	49.7	43.0	49.3	13.0	23.2
65	61.0	59.2	57.0	58.8	4.0	6.6
66	24.0	27.1	30.0	26.9	-6.0	-25.0
67	35.0	35.1	35.0	34.9	0.0	0.0
68	32.0	37.1	42.0	36.9	-10.0	-31.3
69	52.0	53.7	55.0	53.3	-3.0	-5.8
70	114.0	117.9	121.0	117.1	-7.0	-6.1
71	48.0	55.2	62.0	54.8	-14.0	-29.2
72	72.0	81.3	90.0	80.7	-18.0	-25.0
73	84.0	73.2	62.0	72.8	22.0	26.2
74	76.0	79.8	89.0	79.2	-19.0	-27.1
75	72.0	61.7	51.0	61.3	21.0	29.2
76	160.0	146.0	131.0	145.0	29.0	18.1
77	29.0	32.1	35.0	31.9	-6.0	-20.7
78	29.0	32.1	35.0	31.9	-6.0	-20.7
79	75.0	84.8	94.0	84.2	-19.0	-25.3
80	30.0	33.6	37.0	33.4	-7.0	-23.3
81	32.0	27.6	23.0	27.4	9.0	28.1
82	29.0	27.1	25.0	26.9	4.0	13.8
83	32.0	38.1	44.0	37.9	-12.0	-37.5
84	120.0	114.9	109.0	114.1	11.0	9.2
85	32.0	30.6	29.0	30.4	3.0	9.4
86	63.0	64.2	65.0	63.8	-2.0	-3.2
87	37.0	41.6	46.0	41.4	-9.0	-24.3
88	24.0	27.6	31.0	27.4	-7.0	-29.2
89	66.0	64.7	63.0	64.3	3.0	4.5
90	23.0	27.6	32.0	27.4	-9.0	-39.1
91	95.0	100.8	106.0	100.2	-11.0	-11.6
92	26.0	23.1	20.0	22.9	6.0	23.1
93	26.0	23.1	20.0	22.9	6.0	23.1
94	26.0	31.1	36.0	30.9	-10.0	-38.5
95	26.0	26.6	27.0	26.4	-1.0	-3.8
96	55.0	51.2	47.0	50.8	8.0	14.5
97	43.0	45.7	48.0	45.3	-5.0	-11.6
98	83.0	90.3	97.0	89.7	-14.0	-16.9
99	218.0	202.7	186.0	201.3	32.0	14.7
100	43.0	39.6	36.0	39.4	7.0	16.3
101	96.0	79.3	62.0	78.7	34.0	35.4
102	41.0	34.6	28.0	34.4	13.0	31.7
103	44.0	35.6	27.0	35.4	17.0	38.6

104	82.0	79.8	77.0	79.2	5.0	6.1
105	40.0	37.1	34.0	36.9	6.0	15.0
106	40.0	36.6	33.0	36.4	7.0	17.5
107	30.0	29.6	29.0	29.4	1.0	3.3
108	23.0	25.1	27.0	24.9	-4.0	-17.4
109	39.0	37.6	37.0	37.4	1.0	2.6
110	28.0	27.1	26.0	26.9	2.0	7.1
111	24.0	25.1	26.0	24.9	-2.0	-8.3
112	41.0	45.2	49.0	44.8	-8.0	-19.5
113	46.0	37.6	29.0	37.4	17.0	37.0
114	29.0	28.6	29.0	28.4	1.0	3.4
115	97.0	84.8	72.0	84.2	25.0	25.8
116	30.0	37.1	44.0	36.9	-14.0	-46.7
117	28.0	26.1	24.0	25.9	4.0	14.3
118	28.0	26.1	24.0	25.9	4.0	14.3
119	54.0	56.2	58.0	55.8	-4.0	-7.4
120	24.0	26.6	29.0	26.4	-5.0	-20.8
121	60.0	56.2	52.0	55.8	8.0	13.3
122	32.0	30.1	28.0	29.9	4.0	12.5
123	96.0	94.3	92.0	93.7	4.0	6.2
124	26.0	28.1	30.0	27.9	-4.0	-15.4
125	114.0	103.9	93.0	103.1	21.0	18.4
126	36.0	42.1	48.0	41.9	-12.0	-33.3
127	24.0	27.6	31.0	27.4	-7.0	-29.2
128	32.0	33.6	35.0	33.4	-3.0	-9.4
129	32.0	33.6	35.0	33.4	-3.0	-9.4
130	32.0	31.1	30.0	30.9	2.0	6.3
131	32.0	31.1	30.0	30.9	2.0	6.3
132	42.0	45.7	49.0	45.3	-7.0	-16.7
133	137.0	131.4	125.0	130.6	12.0	8.8
134	63.0	60.7	58.0	60.3	5.0	7.9
135	69.0	84.8	100.0	84.2	-31.0	-44.9
136	26.0	28.6	31.0	28.4	-5.0	-19.2
137	71.0	77.3	83.0	76.7	-12.0	-16.9
138	91.0	110.9	130.0	110.1	-39.0	-42.9
139	108.0	125.9	143.0	125.1	-35.0	-32.4
140	27.0	25.6	24.0	25.4	3.0	11.1
141	35.0	27.6	20.0	27.4	15.0	42.9
142	27.0	26.1	25.0	25.9	2.0	7.4
143	34.0	31.6	29.0	31.4	5.0	14.7
144	27.0	31.1	35.0	30.9	-8.0	-29.6
145	84.0	80.3	74.0	79.7	12.0	14.0
146	142.0	150.0	157.0	149.0	-15.0	-10.6
147	183.0	178.6	173.0	177.4	10.0	5.5
148	64.0	70.7	77.0	70.3	-13.0	-20.3
149	29.0	29.6	30.0	29.4	-1.0	-3.4
150	117.0	119.9	122.0	119.1	-5.0	-6.3
151	45.0	53.7	62.0	53.3	-17.0	-37.8
152	28.0	21.6	15.0	21.4	13.0	45.4
153	32.0	24.6	17.0	24.4	15.0	46.9
154	56.0	61.7	67.0	61.3	-11.0	-19.6
155	48.0	40.6	33.0	40.4	15.0	31.3
156	28.0	25.1	22.0	24.9	6.0	21.4
157	32.0	31.1	30.0	30.9	2.0	6.3
158	81.0	74.8	68.0	74.2	13.0	16.0
159	25.0	27.6	30.0	27.4	-5.0	-20.0
160	26.0	27.1	29.0	26.9	-2.0	-7.7
161	108.0	115.4	122.0	114.6	-14.0	-13.0
162	67.0	72.7	78.0	72.3	-11.0	-16.4
163	106.0	102.8	99.0	102.2	7.0	6.6
164	27.0	29.1	31.0	28.9	-4.0	-14.8

145	35.0	36.1	37.0	35.9	-2.0	-5.7
146	71.0	66.2	61.0	65.8	10.0	14.1
147	184.0	201.7	218.0	200.3	-34.0	-18.5
148	96.0	92.8	89.0	92.2	7.0	7.3
149	53.0	55.2	57.0	54.8	-4.0	-7.5
170	40.0	33.6	27.0	33.4	13.0	32.5
171	86.0	82.8	79.0	82.2	7.0	8.1
172	21.0	23.1	25.0	22.9	-4.0	-19.0
173	48.0	50.2	52.0	49.8	-4.0	-8.3
174	44.0	43.6	43.0	43.4	1.0	2.3
175	60.0	61.7	63.0	61.3	-3.0	-5.0
176	28.0	27.1	26.0	26.9	2.0	7.1
177	90.0	73.7	57.0	73.3	33.0	36.7
178	57.0	68.7	80.0	68.3	-23.0	-40.4
179	117.0	104.9	92.0	104.1	25.0	21.4
180	47.0	54.2	61.0	53.8	-14.0	-29.8
181	43.0	40.1	37.0	39.9	6.0	14.0
182	29.0	26.6	24.0	26.4	5.0	17.2
183	36.0	31.6	27.0	31.4	9.0	25.0
184	35.0	31.6	28.0	31.4	7.0	20.0
185	261.0	249.8	237.0	248.2	24.0	9.2
186	45.0	45.2	45.0	44.8	0.0	0.0
187	49.0	49.2	49.0	48.8	0.0	0.0
188	36.0	32.1	28.0	31.9	8.0	22.2
189	54.0	47.7	41.0	47.3	13.0	24.1
190	31.0	34.6	38.0	34.4	-7.0	-22.6
191	36.0	43.1	50.0	42.9	-14.0	-38.9
192	27.0	26.6	26.0	26.4	1.0	3.7
193	314.0	302.0	288.0	300.0	26.0	8.3
194	38.0	40.1	42.0	39.9	-4.0	-10.5
195	36.0	31.1	26.0	30.9	10.0	27.8
196	27.0	27.6	28.0	27.4	-1.0	-3.7
197	27.0	24.1	21.0	23.9	6.0	22.2
198	54.0	56.2	58.0	55.8	-4.0	-7.4
199	18.0	21.6	25.0	21.4	-7.0	-38.9
200	522.0	462.1	399.0	458.9	123.0	23.6
201	48.0	52.2	56.0	51.8	-8.0	-16.7
202	48.0	53.2	58.0	52.8	-10.0	-20.8
203	52.0	49.2	46.0	48.8	6.0	11.5
204	40.0	40.1	40.0	39.9	0.0	0.0
205	32.0	36.1	40.0	35.9	-8.0	-25.0
206	72.0	80.3	88.0	79.7	-16.0	-22.2
207	333.0	355.7	376.0	353.3	-43.0	-12.9
208	48.0	39.6	31.0	39.4	17.0	35.4
209	39.0	37.1	35.0	36.9	4.0	10.3
210	52.0	59.7	67.0	59.3	-15.0	-28.8
211	20.0	22.6	25.0	22.4	-5.0	-25.0
212	20.0	22.6	25.0	22.4	-5.0	-25.0
213	24.0	28.1	32.0	27.9	-8.0	-33.3
214	32.0	34.6	37.0	34.4	-5.0	-15.6
215	56.0	51.2	46.0	50.8	10.0	17.9
216	164.0	171.1	177.0	169.9	-13.0	-7.9
217	19.0	23.1	27.0	22.9	-8.0	-42.1
218	55.0	55.2	55.0	54.8	0.0	0.0
219	112.0	111.9	111.0	111.1	1.0	.9
220	36.0	33.6	31.0	33.4	5.0	13.9
221	27.0	26.6	26.0	26.4	1.0	3.7
222	44.0	43.1	42.0	42.9	2.0	4.5
223	26.0	25.1	24.0	24.9	2.0	7.7
224	71.0	82.8	94.0	82.2	-23.0	-32.4
225	116.0	143.5	170.0	142.5	-54.0	-46.6

226	53.0	51.2	49.0	50.8	4.0	7.5
227	26.0	22.6	19.0	22.4	7.0	26.9
228	63.0	57.2	51.0	56.8	12.0	19.0
229	30.0	31.6	33.0	31.4	-3.0	-10.0
230	38.0	38.1	38.0	37.9	0.0	0.0
231	26.0	23.6	21.0	23.4	5.0	19.2
232	40.0	43.1	46.0	42.9	-6.0	-15.0
233	62.0	61.7	61.0	61.3	1.0	1.6
234	30.0	25.1	20.0	24.9	10.0	33.3
235	55.0	54.7	54.0	54.3	1.0	1.8
236	30.0	31.6	33.0	31.4	-3.0	-10.0
237	30.0	30.1	30.0	29.9	0.0	0.0
238	32.0	32.1	32.0	31.9	0.0	0.0
239	36.0	30.6	25.0	30.4	11.0	30.6
240	88.0	78.3	68.0	77.7	20.0	22.7
241	32.0	27.1	22.0	26.9	10.0	31.3
242	26.0	22.1	18.0	21.9	8.0	30.8
243	21.0	36.6	42.0	36.4	-11.0	-35.5
244	49.0	44.7	40.0	44.3	9.0	18.4
245	49.0	54.2	59.0	53.8	-10.0	-20.6
246	178.0	168.6	158.0	167.4	20.0	11.2
247	27.0	28.6	30.0	28.4	-3.0	-11.1
248	24.0	27.1	30.0	26.9	-6.0	-25.0
249	40.0	39.1	38.0	38.9	2.0	5.0
250	44.0	44.1	44.0	43.9	0.0	0.0
251	144.0	161.5	178.0	160.5	-34.0	-23.6
252	44.0	46.7	49.0	46.3	-5.0	-11.6
253	56.0	53.7	51.0	53.3	5.0	8.9
254	32.0	30.6	29.0	30.4	3.0	9.4
255	26.0	28.6	31.0	28.4	-5.0	-19.2
256	27.0	23.6	20.0	23.4	7.0	25.9
257	36.0	29.6	23.0	29.4	13.0	36.1
258	30.0	36.1	42.0	35.9	-12.0	-40.0
259	72.0	67.2	62.0	66.8	10.0	13.9
260	40.0	32.6	25.0	32.4	15.0	37.5
261	30.0	36.1	42.0	35.9	-12.0	-40.0
262	32.0	28.6	25.0	28.4	7.0	21.9
263	48.0	40.1	32.0	39.9	16.0	33.3
264	32.0	32.1	32.0	31.9	0.0	0.0
265	64.0	72.7	81.0	72.3	-17.0	-26.6
266	34.0	31.6	29.0	31.4	5.0	14.7
267	28.0	27.1	26.0	26.9	2.0	7.1
268	52.0	63.7	75.0	63.3	-23.0	-44.2
269	52.0	63.7	75.0	63.3	-23.0	-44.2
270	96.0	95.3	94.0	94.7	2.0	2.1
271	112.0	107.4	102.0	106.6	10.0	9.9
272	40.0	45.7	51.0	45.3	-11.0	-27.5
273	64.0	53.7	43.0	53.3	21.0	32.8
274	44.0	38.1	32.0	37.9	12.0	27.3
275	26.0	24.1	22.0	23.9	4.0	15.4
276	61.0	63.7	66.0	63.3	-5.0	-9.2
277	26.0	28.6	31.0	28.4	-5.0	-19.2
278	29.0	27.6	26.0	27.4	3.0	10.3
279	169.0	155.0	140.0	154.0	29.0	17.2
280	210.0	200.7	190.0	199.3	20.0	9.5
281	64.0	67.2	70.0	66.8	-6.0	-9.4
282	52.0	51.2	50.0	50.8	2.0	3.8
283	28.0	29.1	30.0	28.9	-2.0	-7.1
284	32.0	34.1	36.0	33.9	-4.0	-12.5
285	72.0	62.7	53.0	62.3	19.0	26.4
286	32.0	24.1	16.0	23.9	16.0	50.0

297	85.0	85.3	85.0	84.7	0.0	0.0
298	84.0	67.2	50.0	66.8	34.0	40.5
299	192.0	192.1	191.0	190.9	1.0	.5
290	32.0	29.1	26.0	28.9	6.0	18.7
291	24.0	27.1	30.0	26.9	-6.0	-25.0
292	44.0	45.7	47.0	45.3	-3.0	-6.8
293	32.0	33.1	34.0	32.9	-2.0	-6.3
294	12.0	26.1	20.0	25.9	12.0	37.5
295	72.0	67.2	62.0	66.8	10.0	13.4
296	21.0	23.6	26.0	23.4	-5.0	-23.8
297	57.0	48.7	40.0	48.3	17.0	29.8
298	46.0	49.2	52.0	48.8	-6.0	-13.0
299	18.0	22.1	26.0	21.9	-8.0	-44.4
300	30.0	32.1	34.0	31.9	-4.0	-13.3
301	40.0	35.1	30.0	34.9	10.0	25.0
302	90.0	85.3	80.0	84.7	10.0	11.1
303	50.0	46.2	42.0	45.8	8.0	16.0
304	55.0	52.2	49.0	51.8	6.0	10.9
305	90.0	85.3	80.0	84.7	10.0	11.1
306	42.0	48.7	55.0	48.3	-13.0	-31.0
307	33.0	28.6	24.0	28.4	9.0	27.3
308	72.0	73.2	74.0	72.8	-2.0	-2.8
309	31.0	26.1	21.0	25.9	10.0	32.3
310	105.0	106.4	107.0	105.6	-2.0	-1.9
311	26.0	21.6	17.0	21.4	9.0	34.6
312	180.0	200.2	219.0	198.8	-39.0	-21.7
313	204.0	224.8	244.0	223.2	-40.0	-19.6
314	80.0	83.3	77.0	82.7	12.0	13.5
315	32.0	35.6	39.0	35.4	-7.0	-21.9
316	68.0	69.7	71.0	69.3	-3.0	-4.4
317	32.0	30.6	29.0	30.4	3.0	9.4
318	56.0	48.2	40.0	47.8	16.0	28.6
319	33.0	32.1	31.0	31.9	2.0	6.1
320	96.0	90.3	84.0	89.7	12.0	12.5
321	39.0	41.6	44.0	41.4	-5.0	-12.8
322	24.0	27.1	30.0	26.9	-6.0	-25.0
323	64.0	59.2	54.0	58.8	10.0	15.6
324	106.0	94.8	83.0	94.2	23.0	21.7
325	26.0	27.1	28.0	26.9	-2.0	-7.7
326	204.0	194.2	187.0	194.8	17.0	8.3
327	221.0	213.2	204.0	211.8	17.0	7.7
328	72.0	71.2	70.0	70.8	2.0	2.8
329	37.0	42.6	48.0	42.4	-11.0	-29.7
330	80.0	77.8	75.0	77.2	5.0	6.3
331	52.0	54.7	57.0	54.3	-5.0	-9.6
332	80.0	79.3	78.0	78.7	2.0	2.5
333	33.0	30.6	28.0	30.4	5.0	15.2
334	23.0	25.1	27.0	24.9	-4.0	-17.4
335	128.0	132.9	137.0	132.1	-9.0	-7.0
336	36.0	36.6	37.0	36.4	-1.0	-2.8
337	84.0	72.2	60.0	71.8	24.0	28.6
338	40.0	35.1	30.0	34.9	10.0	25.0
339	34.0	36.1	38.0	35.9	-4.0	-11.8
340	47.0	51.2	55.0	50.8	-8.0	-17.0
341	188.0	206.2	223.0	204.8	-35.0	-18.6
342	26.0	24.1	22.0	23.9	4.0	15.4
343	45.0	42.6	40.0	42.4	5.0	11.1
344	228.0	201.7	174.0	200.3	54.0	23.7
345	272.0	249.3	225.0	247.7	47.0	17.3
346	146.0	164.6	184.0	163.4	-40.0	-27.8
347	48.0	48.2	48.0	47.8	0.0	0.0

348	76.0	74.3	72.0	73.7	4.0	5.3
349	60.0	51.2	42.0	50.8	18.0	30.0
350	44.0	39.1	34.0	38.9	10.0	22.7
351	80.0	74.8	69.0	74.2	11.0	13.8
352	56.0	54.7	53.0	54.3	3.0	5.4
353	132.0	122.9	113.0	122.1	19.0	14.4
354	55.0	49.2	41.0	47.8	14.0	25.5
355	75.0	65.7	56.0	65.3	19.0	25.3
356	27.0	27.6	28.0	27.4	-1.0	-3.7
357	27.0	29.6	32.0	29.4	-5.0	-18.5
358	36.0	42.1	48.0	41.9	-12.0	-33.3
359	36.0	30.6	25.0	30.4	11.0	30.6
360	45.0	54.2	63.0	53.8	-18.0	-40.0
361	67.0	76.8	86.0	76.2	-19.0	-28.4
362	28.0	30.6	33.0	30.4	-5.0	-17.9
363	71.0	81.3	91.0	80.7	-20.0	-28.2
364	30.0	29.6	29.0	29.4	1.0	3.3
365	24.0	25.1	26.0	24.9	-2.0	-8.3
366	32.0	30.1	28.0	29.9	4.0	12.5
367	28.0	27.1	26.0	26.9	2.0	7.1
368	26.0	29.1	32.0	28.9	-6.0	-23.1
369	28.0	31.1	34.0	30.9	-6.0	-21.4
370	56.0	61.2	66.0	60.8	-10.0	-17.9
371	40.0	35.1	30.0	34.9	10.0	25.0
372	40.0	37.1	34.0	36.9	6.0	15.0
373	32.0	27.6	23.0	27.4	9.0	28.1
374	120.0	140.5	160.0	139.5	-40.0	-33.3
375	36.0	39.1	42.0	38.9	-6.0	-16.7
376	32.0	39.1	46.0	38.9	-14.0	-43.8
377	48.0	47.2	46.0	46.8	2.0	4.2
378	36.0	35.6	35.0	35.4	1.0	2.8
379	52.0	51.7	51.0	51.3	1.0	1.9
380	32.0	35.1	38.0	34.9	-6.0	-18.7
381	32.0	37.1	42.0	36.9	-10.0	-31.3
382	48.0	49.2	50.0	48.8	-2.0	-4.2
383	48.0	54.2	60.0	53.8	-12.0	-25.0
384	48.0	37.6	27.0	37.4	21.0	43.8
385	42.0	37.6	33.0	37.4	9.0	21.6
386	31.0	27.6	24.0	27.4	7.0	22.6
387	32.0	36.1	40.0	35.9	-8.0	-25.0
388	56.0	50.2	44.0	49.8	12.0	21.4
389	80.0	65.2	50.0	64.8	30.0	37.5
390	40.0	38.6	37.0	38.4	3.0	7.5
391	28.0	24.1	20.0	23.9	8.0	28.5
392	42.0	35.1	28.0	34.9	14.0	33.3
393	27.0	31.1	33.0	29.9	-6.0	-22.2
394	40.0	47.2	54.0	46.8	-14.0	-35.0
395	41.0	46.7	52.0	46.3	-11.0	-26.8
396	395.0	355.2	313.0	352.8	82.0	20.8
397	108.0	112.9	117.0	112.1	-9.0	-8.3
398	36.0	29.1	22.0	28.9	14.0	38.9
399	36.0	40.6	45.0	40.4	-9.0	-25.0
400	934.0	1080.6	1220.0	1073.4	-286.0	-30.6
401	278.0	241.3	203.0	239.7	75.0	27.0
402	66.0	61.2	56.0	60.8	10.0	15.2
403	104.0	100.3	96.0	99.7	8.0	7.7
404	40.0	30.1	20.0	29.9	20.0	50.0
405	25.0	26.1	27.0	25.9	-2.0	-8.0
406	33.0	35.6	39.0	35.4	-5.0	-15.2
407	596.0	712.9	825.0	708.1	-229.0	-38.4
408	132.0	107.9	83.0	107.1	49.0	37.1

409	28.0	27.6	27.0	27.4	1.0	3.0
410	32.0	25.6	19.0	25.4	13.0	40.6
411	21.0	21.1	25.0	22.9	-4.0	-10.0
412	81.0	81.8	82.0	81.2	-1.0	-1.2
413	60.0	60.2	60.0	59.8	0.0	0.0
414	258.0	297.0	334.0	295.0	-76.0	-29.5
415	79.0	83.8	88.0	83.2	-9.0	-11.4
416	28.0	24.6	25.0	26.4	3.0	10.7
417	38.0	34.6	31.0	34.4	7.0	18.4
418	27.0	27.6	20.0	23.4	7.0	25.9
419	18.0	22.6	27.0	22.4	-9.0	-50.0
420	160.0	175.1	189.0	173.9	-29.0	-18.1
421	61.0	64.2	67.0	63.8	-6.0	-9.8
422	162.0	152.0	141.0	151.0	21.0	13.0
423	40.0	36.6	33.0	36.4	7.0	17.5
424	36.0	38.1	40.0	37.9	-4.0	-11.1
425	36.0	34.6	33.0	34.4	3.0	8.3
426	25.0	19.6	14.0	19.4	11.0	44.0
427	992.0	829.3	661.0	823.7	331.0	33.4
428	231.0	262.4	292.0	260.6	-61.0	-26.4
429	124.0	136.0	147.0	135.0	-23.0	-18.5
430	25.0	24.6	24.0	24.4	1.0	4.0
431	313.0	374.3	433.0	371.7	-120.0	-38.3
432	92.0	73.7	55.0	73.3	37.0	40.2
433	30.0	28.1	26.0	27.9	4.0	13.3
434	35.0	29.6	24.0	29.4	11.0	31.4
435	61.0	59.2	57.0	58.8	4.0	6.6
436	43.0	41.1	39.0	40.9	4.0	9.3
437	228.0	181.6	134.0	180.4	94.0	41.2
438	43.0	50.7	58.0	50.3	-15.0	-34.9
439	27.0	28.1	29.0	27.9	-2.0	-7.4
440	20.0	23.1	26.0	22.9	-6.0	-30.0
441	24.0	25.1	26.0	24.9	-2.0	-8.3
442	27.0	25.6	24.0	25.4	3.0	11.1
443	141.0	115.9	90.0	115.1	51.0	36.2
444	79.0	64.2	49.0	63.8	30.0	38.0
445	93.0	107.9	122.0	107.1	-29.0	-31.2
446	19.0	23.6	28.0	23.4	-9.0	-47.4
447	169.0	150.0	130.0	149.0	39.0	23.1
448	41.0	41.6	42.0	41.4	-1.0	-2.4
449	68.0	61.2	54.0	60.8	14.0	20.6
450	79.0	90.8	102.0	90.2	-23.0	-29.1
451	48.0	51.2	54.0	50.8	-6.0	-12.5
452	43.0	46.7	50.0	46.3	-7.0	-16.3
453	24.0	26.1	28.0	25.9	-4.0	-16.7
454	40.0	42.1	44.0	41.9	-4.0	-10.0
455	31.0	28.1	25.0	27.9	6.0	19.4
456	56.0	53.7	51.0	53.3	5.0	8.9
457	33.0	35.6	38.0	35.4	-5.0	-15.2
458	88.0	82.8	77.0	82.2	11.0	12.5
459	42.0	35.1	28.0	34.9	14.0	33.3
460	34.0	29.1	24.0	28.9	10.0	29.4
461	340.0	302.5	263.0	300.5	77.0	22.0
462	136.0	153.0	169.0	152.0	-33.0	-24.3
463	112.0	90.8	69.0	90.2	43.0	38.4
464	56.0	58.7	61.0	58.3	-5.0	-8.9
465	28.0	26.1	24.0	25.9	4.0	14.3
466	35.0	34.1	33.0	33.9	2.0	5.7
467	1024.0	1098.2	1165.0	1090.8	-141.0	-13.8
468	152.0	163.0	173.0	162.0	-21.0	-13.8
469	104.0	121.4	138.0	120.6	-34.0	-32.7

470	2303.0	2509.0	2098.0	2492.0	-395.0	-17.2
471	331.0	288.5	244.0	286.5	87.0	26.3
472	58.0	52.7	47.0	52.3	11.0	19.0
473	115.0	137.0	134.0	136.0	-3.0	-2.2
474	1240.0	980.8	715.0	974.2	525.0	42.3
475	168.0	145.5	122.0	144.5	46.0	27.4
476	48.0	47.2	46.0	46.8	2.0	4.2
477	84.0	68.7	53.0	68.3	31.0	36.9
478	25.0	25.1	25.0	24.9	0.0	0.0
479	24.0	24.1	28.0	25.9	-4.0	-16.7
480	76.0	87.3	98.0	86.7	-22.0	-28.9
481	25.0	26.6	28.0	26.4	-3.0	-12.0
482	107.0	100.3	97.0	99.7	6.0	5.8
483	24.0	28.1	32.0	27.9	-8.0	-33.3
484	22.0	23.6	25.0	23.4	-3.0	-13.6
485	78.0	70.7	63.0	70.3	15.0	19.2
486	261.0	243.8	225.0	242.2	36.0	13.8
487	55.0	62.2	69.0	61.8	-14.0	-25.5
488	72.0	85.8	99.0	85.2	-27.0	-37.5
489	21.0	28.1	33.0	27.9	-10.0	-43.5
490	21.0	28.1	33.0	27.9	-10.0	-43.5
491	315.0	369.2	421.0	366.8	-106.0	-33.7
492	79.0	81.8	86.0	81.2	-5.0	-6.3
493	65.0	68.7	72.0	68.3	-7.0	-10.8
494	70.0	60.2	50.0	59.8	20.0	28.6
495	31.0	29.6	28.0	29.4	3.0	9.7
496	49.0	40.1	31.0	39.9	18.0	36.7
497	28.0	30.6	33.0	30.4	-5.0	-17.9
498	49.0	60.7	72.0	60.3	-23.0	-46.9
499	31.0	25.6	20.0	25.4	11.0	35.5
500	40.0	35.1	30.0	34.9	10.0	25.0
501	726.0	728.9	711.0	716.1	15.0	2.1
502	312.0	297.5	281.0	295.5	31.0	9.9
503	54.0	55.2	54.0	54.8	2.0	3.6
504	154.0	177.1	199.0	175.9	-45.0	-29.2
505	24.0	24.6	27.0	25.4	-3.0	-12.5
506	27.0	24.6	26.0	26.4	1.0	3.7
507	2970.0	2957.5	2917.0	2933.5	53.0	1.8
508	330.0	378.3	424.0	375.7	-94.0	-28.5
509	318.0	384.3	448.0	381.7	-130.0	-40.9
510	88.0	95.8	103.0	95.2	-15.0	-17.0
511	88.0	106.9	125.0	106.1	-37.0	-42.0
512	89.0	79.8	70.0	79.2	19.0	21.3
513	31.0	29.6	28.0	29.4	3.0	9.7
514	50.0	51.2	52.0	50.8	-2.0	-4.0
515	38.0	39.1	40.0	38.9	-2.0	-5.3
516	112.0	102.8	93.0	102.2	19.0	17.0
517	28.0	27.1	26.0	26.9	2.0	7.1
518	32.0	27.6	23.0	27.4	9.0	28.1
519	32.0	27.1	22.0	26.9	10.0	31.3
520	32.0	28.6	25.0	28.4	7.0	21.9
521	32.0	31.1	30.0	30.9	2.0	6.3
522	60.0	68.7	77.0	68.3	-17.0	-28.3
523	168.0	138.0	107.0	137.0	61.0	36.3
524	68.0	69.2	68.0	67.8	0.0	0.0
525	30.0	37.6	45.0	37.4	-15.0	-50.0
526	65.0	61.7	58.0	61.3	7.0	10.8
527	111.0	102.8	94.0	102.2	17.0	15.3
528	48.0	40.6	33.0	40.4	15.0	31.3
529	90.0	92.8	95.0	92.2	-5.0	-5.6
530	31.0	28.1	25.0	27.9	6.0	19.4

531	36.0	33.1	30.0	32.9	6.0	16.7
532	31.0	31.1	31.0	30.9	0.0	0.0
533	28.0	24.1	20.0	23.9	8.0	28.5
534	132.0	114.4	96.0	113.6	36.0	27.3
535	36.0	29.1	20.0	27.9	16.0	44.4
536	154.0	129.4	104.0	128.6	50.0	32.5
537	24.0	25.1	26.0	24.9	-2.0	-8.3
538	24.0	25.6	27.0	25.4	-3.0	-12.5
539	292.0	303.5	313.0	301.5	-21.0	-7.2
540	60.0	62.2	64.0	61.8	-4.0	-6.7
541	200.0	218.2	235.0	216.8	-35.0	-17.5
542	36.0	34.6	37.0	36.4	-1.0	-2.8
543	48.0	49.2	50.0	48.8	-2.0	-4.2

AVERAGE DIFFERENCE IN ORS. FREQ. = 16.0
 AVERAGE PERCENTAGE DIFFERENCE = 19.1
 ROOT MEAN SQUARE ERROR = 41.30
 T-VALUE FOR PAIRED COMPARISON = .32

RAW CHI-SQUARE = 1229.224 WITH 542 DEGREES OF FREEDOM

T-VALUE = 16.674

CUT-OFF VALUE = 100.000 (GLATDS vs Directory, Zone-Tract)

THERE ARE 108 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 27306
OTHER SURVEY TOTAL = 27923

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCT.DIFF
1	98.0	115.7	136.0	118.3	-38.0	-38.8
2	104.0	120.1	139.0	122.9	-35.0	-33.7
3	97.0	108.3	122.0	110.7	-25.0	-25.8
4	117.0	139.4	165.0	142.6	-48.0	-41.0
5	109.0	98.4	90.0	100.6	19.0	17.4
6	103.0	93.9	87.0	96.1	16.0	15.5
7	104.0	137.9	175.0	141.1	-71.0	-68.3
8	92.0	116.7	144.0	119.3	-52.0	-56.5
9	84.0	95.9	110.0	98.1	-26.0	-31.0
10	108.0	106.8	108.0	109.2	0.0	0.0
11	224.0	229.9	241.0	235.1	-17.0	-7.6
12	114.0	117.2	123.0	119.8	-9.0	-7.9
13	160.0	136.5	116.0	139.5	44.0	27.5
14	75.0	89.0	105.0	91.0	-30.0	-40.0
15	120.0	110.3	103.0	112.7	17.0	14.2
16	95.0	101.8	111.0	104.2	-16.0	-16.8
17	83.0	92.0	103.0	94.0	-20.0	-24.1
18	218.0	192.8	172.0	197.2	46.0	21.1
19	114.0	97.9	84.0	100.1	30.0	26.3
20	137.0	127.1	120.0	129.9	17.0	12.4
21	69.0	91.5	116.0	93.5	-47.0	-68.1
22	91.0	118.7	149.0	121.3	-58.0	-63.7
23	108.0	132.5	160.0	135.5	-52.0	-48.1
24	142.0	151.8	165.0	155.2	-23.0	-16.2
25	183.0	173.5	168.0	177.5	15.0	8.2
26	117.0	119.6	125.0	122.4	-8.0	-6.8
27	108.0	116.7	128.0	119.3	-20.0	-18.5
28	106.0	98.9	94.0	101.1	12.0	11.3
29	184.0	207.7	236.0	212.3	-52.0	-28.3
30	117.0	97.4	80.0	99.6	37.0	31.6
31	261.0	240.3	225.0	245.7	36.0	13.8
32	314.0	291.7	276.0	298.3	38.0	12.1
33	522.0	424.7	337.0	434.3	185.0	35.4
34	333.0	360.4	396.0	368.6	-63.0	-18.9
35	164.0	170.6	181.0	174.4	-17.0	-10.4
36	112.0	110.3	111.0	112.7	1.0	.9
37	71.0	87.0	105.0	89.0	-34.0	-47.9
38	116.0	154.8	197.0	158.2	-81.0	-69.8
39	178.0	161.2	148.0	164.8	30.0	16.9
40	144.0	167.6	195.0	171.4	-51.0	-35.4
41	112.0	103.8	98.0	106.2	14.0	12.5
42	169.0	145.9	126.0	149.1	43.0	25.4

43	210.0	192.3	179.0	196.7	31.0	14.8
44	192.0	188.4	189.0	192.6	3.0	1.6
45	105.0	105.3	108.0	107.7	-3.0	-2.9
46	180.0	206.7	238.0	211.3	-58.0	-32.2
47	204.0	230.9	263.0	236.1	-59.0	-28.9
48	106.0	87.0	70.0	89.0	36.0	34.0
49	204.0	189.4	179.0	193.6	25.0	12.3
50	221.0	206.2	196.0	210.8	25.0	11.3
51	128.0	134.0	143.0	137.0	-15.0	-11.7
52	188.0	212.1	241.0	216.9	-53.0	-28.2
53	228.0	185.4	147.0	189.6	81.0	35.5
54	272.0	233.9	201.0	239.1	71.0	26.1
55	144.0	172.1	204.0	175.9	-60.0	-41.7
56	132.0	116.7	104.0	119.3	28.0	21.2
57	71.0	85.0	101.0	87.0	-30.0	-42.3
58	120.0	148.3	180.0	151.7	-60.0	-50.0
59	395.0	330.3	273.0	337.7	122.0	30.9
60	108.0	114.2	123.0	116.8	-15.0	-13.9
61	934.0	1135.7	1363.0	1161.3	-429.0	-45.9
62	278.0	219.0	165.0	224.0	113.0	40.6
63	104.0	96.9	92.0	99.1	12.0	11.5
64	596.0	759.9	941.0	777.1	-345.0	-57.9
65	132.0	94.9	60.0	97.1	72.0	54.5
66	258.0	312.0	373.0	319.0	-115.0	-44.6
67	160.0	180.0	204.0	184.0	-44.0	-27.5
68	162.0	144.4	130.0	147.6	32.0	19.8
69	992.0	735.2	495.0	751.8	497.0	50.1
70	231.0	273.4	322.0	279.6	-91.0	-39.4
71	124.0	139.4	158.0	142.6	-34.0	-27.4
72	313.0	398.5	493.0	407.5	-180.0	-57.5
73	228.0	156.7	89.0	160.3	139.0	61.0
74	141.0	101.8	65.0	104.2	76.0	53.9
75	93.0	113.2	136.0	115.8	-43.0	-46.2
76	169.0	138.4	111.0	141.6	58.0	34.3
77	79.0	94.9	113.0	97.1	-34.0	-43.0
78	348.0	278.4	223.0	284.6	117.0	34.4
79	136.0	159.2	186.0	162.8	-50.0	-36.8
80	112.0	78.6	47.0	80.4	65.0	58.0
81	1024.0	1117.4	1236.0	1142.6	-212.0	-20.7
82	152.0	166.1	184.0	169.9	-32.0	-21.1
83	104.0	128.5	156.0	131.5	-52.0	-50.0
84	2303.0	2569.0	2893.0	2627.0	-590.0	-25.6
85	331.0	263.0	201.0	269.0	130.0	39.3
86	135.0	136.0	140.0	139.0	-5.0	-3.7
87	1240.0	837.5	454.0	856.5	786.0	63.4
88	168.0	132.5	100.0	135.5	68.0	40.5
89	76.0	91.5	109.0	93.5	-33.0	-43.4
90	103.0	97.4	94.0	99.6	9.0	8.7
91	261.0	231.4	207.0	236.6	54.0	20.7
92	72.0	91.5	113.0	93.5	-41.0	-56.9
93	315.0	389.6	473.0	398.4	-158.0	-50.2
94	726.0	706.5	703.0	722.5	23.0	3.2
95	312.0	285.3	265.0	291.7	47.0	15.1
96	154.0	185.4	221.0	189.6	-67.0	-43.5
97	2970.0	2897.3	2890.0	2962.7	80.0	2.7
98	330.0	395.5	470.0	404.5	-140.0	-42.4
99	318.0	409.9	511.0	419.1	-193.0	-60.7
100	88.0	97.9	110.0	100.1	-22.0	-25.0
101	88.0	114.2	143.0	116.8	-55.0	-62.5
102	112.0	96.4	83.0	98.6	29.0	25.9
103	168.0	121.1	77.0	123.9	91.0	54.2

104	111.0	96.9	85.0	99.1	26.0	23.4
105	132.0	104.8	80.0	107.2	52.0	39.4
106	154.0	113.7	76.0	116.3	78.0	50.6
107	292.0	304.1	323.0	310.9	-31.0	-10.6
108	200.0	223.0	251.0	228.0	-51.0	-25.5

AVERAGE DIFFERENCE IN OBS. FREQ. = 73.8
 AVERAGE PERCENTAGE DIFFERENCE = 30.9
 ROOT MEAN SQUARE ERROR = 135.41
 T-VALUE FOR PAIRED COMPARISON = -.44

RAW CHI-SQUARE = 1750.402 WITH 107 DEGREES OF FREEDOM

T-VALUE = 44.573.

CUT-OFF VALUE = 50.000 (GLATDS vs Directory, Zone-Tract)

THERE ARE 26A PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 37341
OTHER SURVEY TOTAL = 37675

PAIR NO.	H-I ORS.	H-I EXP.	O-S ORS.	O-S EXP.	ORS.DIFF	PCT.DIFF
1	69.0	76.7	85.0	77.3	-16.0	-23.2
2	90.0	90.6	92.0	91.4	-2.0	-2.2
3	60.0	61.7	64.0	62.3	-4.0	-6.7
4	68.0	52.3	37.0	52.7	31.0	45.6
5	58.0	43.8	30.0	44.2	28.0	48.3
6	92.0	71.7	52.0	72.3	40.0	43.5
7	48.0	52.3	57.0	52.7	-9.0	-18.7
8	98.0	116.5	136.0	117.5	-38.0	-38.8
9	104.0	121.0	139.0	122.0	-35.0	-33.7
10	97.0	109.0	122.0	110.0	-25.0	-25.8
11	117.0	140.4	165.0	141.6	-48.0	-41.0
12	61.0	62.2	64.0	62.8	-3.0	-4.9
13	109.0	99.1	90.0	99.9	19.0	17.4
14	103.0	94.6	87.0	95.4	16.0	15.5
15	65.0	64.7	65.0	65.3	0.0	0.0
16	77.0	83.1	90.0	83.9	-13.0	-16.9
17	104.0	138.9	175.0	140.1	-71.0	-68.3
18	68.0	54.8	42.0	55.2	26.0	38.2
19	49.0	57.7	67.0	58.3	-18.0	-36.7
20	92.0	117.5	144.0	118.5	-52.0	-56.5
21	60.0	52.8	46.0	53.2	14.0	23.3
22	84.0	96.6	110.0	97.4	-26.0	-31.0
23	108.0	107.5	108.0	108.5	0.0	0.0
24	224.0	231.5	241.0	233.5	-17.0	-7.6
25	48.0	53.8	60.0	54.2	-12.0	-25.0
26	96.0	93.6	92.0	94.4	4.0	4.2
27	56.0	46.3	37.0	46.7	19.0	33.9
28	61.0	58.7	57.0	59.3	4.0	6.6
29	52.0	53.8	56.0	54.2	-4.0	-7.7
30	114.0	118.0	123.0	119.0	-9.0	-7.9
31	48.0	58.2	69.0	58.8	-21.0	-43.8
32	72.0	85.1	99.0	86.9	-27.0	-37.5
33	84.0	66.7	50.0	67.3	34.0	40.5
34	70.0	83.6	98.0	84.4	-28.0	-40.0
35	72.0	55.3	39.0	55.7	33.0	45.8
36	160.0	137.4	116.0	138.6	44.0	27.5
37	75.0	89.6	105.0	90.4	-30.0	-40.0
38	120.0	111.0	103.0	112.0	17.0	14.2
39	63.0	63.2	64.0	63.8	-1.0	-1.6
40	37.0	43.8	51.0	44.2	-14.0	-37.8
41	66.0	64.2	63.0	64.8	3.0	4.5
42	95.0	102.5	111.0	103.5	-16.0	-16.8

43	55.0	49.3	44.0	49.7	11.0	20.0
44	43.0	47.3	52.0	47.7	-9.0	-20.9
45	83.0	92.6	103.0	93.4	-20.0	-24.1
46	218.0	194.1	172.0	195.9	46.0	21.1
47	96.0	70.7	46.0	71.3	50.0	52.1
48	82.0	78.2	75.0	78.8	7.0	8.5
49	41.0	46.8	53.0	47.2	-12.0	-29.3
50	97.0	77.7	59.0	78.3	38.0	39.2
51	30.0	40.8	52.0	41.2	-22.0	-73.3
52	54.0	57.2	61.0	57.8	-7.0	-13.0
53	60.0	54.3	49.0	54.7	11.0	18.3
54	96.0	92.1	89.0	92.9	7.0	7.3
55	114.0	98.6	84.0	99.4	30.0	26.3
56	36.0	45.3	55.0	45.7	-19.0	-52.8
57	42.0	46.8	52.0	47.2	-10.0	-23.8
58	137.0	127.9	120.0	129.1	17.0	12.4
59	63.0	58.7	55.0	59.3	8.0	12.7
60	69.0	92.1	116.0	92.9	-47.0	-68.1
61	71.0	79.1	88.0	79.9	-17.0	-23.9
62	91.0	119.5	149.0	120.5	-58.0	-63.7
63	108.0	133.4	160.0	134.6	-52.0	-48.1
64	86.0	77.7	70.0	78.3	16.0	18.6
65	142.0	152.8	165.0	154.2	-23.0	-16.2
66	183.0	174.7	168.0	176.3	15.0	8.2
67	64.0	73.2	83.0	73.8	-19.0	-29.7
68	117.0	120.5	125.0	121.5	-8.0	-6.8
69	45.0	57.7	71.0	58.3	-26.0	-57.8
70	56.0	63.7	72.0	64.3	-16.0	-28.6
71	81.0	70.2	60.0	70.8	21.0	25.9
72	108.0	117.5	128.0	118.5	-20.0	-18.5
73	67.0	74.7	83.0	75.3	-16.0	-23.9
74	106.0	99.6	94.0	100.4	12.0	11.3
75	71.0	63.2	56.0	63.8	15.0	21.1
76	184.0	209.1	236.0	210.9	-52.0	-28.3
77	96.0	90.1	85.0	90.9	11.0	11.5
78	53.0	55.3	58.0	55.7	-5.0	-9.4
79	86.0	80.1	75.0	80.9	11.0	12.8
80	48.0	50.3	53.0	50.7	-5.0	-10.4
81	60.0	61.7	64.0	62.3	-4.0	-6.7
82	90.0	64.7	40.0	65.3	50.0	55.6
83	57.0	73.7	91.0	74.3	-34.0	-59.6
84	117.0	98.1	80.0	98.9	37.0	31.6
85	47.0	57.7	69.0	58.3	-22.0	-46.8
86	261.0	241.9	225.0	244.1	36.0	13.8
87	54.0	44.3	35.0	44.7	19.0	35.2
88	36.0	46.8	58.0	47.2	-22.0	-61.1
89	314.0	293.7	276.0	296.3	38.0	12.1
90	54.0	56.2	59.0	56.8	-5.0	-9.3
91	522.0	427.6	337.0	431.4	185.0	35.4
92	48.0	53.8	60.0	54.2	-12.0	-25.0
93	48.0	55.3	63.0	55.7	-15.0	-31.3
94	52.0	47.8	44.0	48.2	8.0	15.4
95	72.0	84.1	97.0	84.9	-25.0	-34.7
96	333.0	362.9	396.0	366.1	-63.0	-18.9
97	52.0	63.2	75.0	63.8	-23.0	-44.2
98	56.0	48.3	41.0	48.7	15.0	26.8
99	164.0	171.7	181.0	173.3	-17.0	-10.4
100	55.0	54.8	55.0	55.2	0.0	0.0
101	112.0	111.0	111.0	112.0	1.0	.9
102	71.0	87.6	105.0	88.4	-34.0	-47.9
103	116.0	155.8	197.0	157.2	-81.0	-69.8

104	53.0	49.8	47.0	50.2	6.0	11.3
105	63.0	53.8	45.0	45.2	18.0	28.6
106	62.0	60.7	60.0	61.3	2.0	3.2
107	55.0	53.8	53.0	54.2	2.0	3.6
108	88.0	72.7	58.0	73.3	30.0	34.1
109	49.0	56.2	64.0	56.8	-15.0	-30.6
110	178.0	162.3	148.0	163.7	30.0	16.9
111	144.0	168.7	195.0	170.3	-51.0	-35.4
112	44.0	47.8	52.0	48.2	-8.0	-18.2
113	56.0	51.8	48.0	52.2	8.0	14.3
114	72.0	63.7	56.0	64.3	16.0	22.2
115	64.0	76.2	89.0	76.8	-25.0	-39.1
116	52.0	69.2	87.0	69.8	-35.0	-67.3
117	52.0	69.2	87.0	69.8	-35.0	-67.3
118	96.0	94.6	94.0	95.4	2.0	2.1
119	112.0	104.5	98.0	105.5	14.0	12.5
120	40.0	47.8	56.0	48.2	-16.0	-40.0
121	64.0	48.3	33.0	48.7	31.0	48.4
122	61.0	63.7	67.0	64.3	-6.0	-9.8
123	169.0	146.8	126.0	148.2	43.0	25.4
124	210.0	193.6	179.0	195.4	31.0	14.8
125	64.0	67.7	72.0	68.3	-8.0	-12.5
126	52.0	50.8	50.0	51.2	2.0	3.8
127	72.0	57.2	43.0	57.8	29.0	40.3
128	85.0	85.6	87.0	86.4	-2.0	-2.4
129	84.0	58.2	33.0	58.8	51.0	60.7
130	192.0	189.7	189.0	191.3	3.0	1.6
131	44.0	46.8	50.0	47.2	-6.0	-13.6
132	72.0	64.7	58.0	65.3	14.0	19.4
133	57.0	43.8	31.0	44.2	26.0	45.6
134	46.0	50.3	55.0	50.7	-9.0	-19.6
135	90.0	82.1	75.0	82.9	15.0	16.7
136	50.0	43.8	38.0	44.2	12.0	24.0
137	55.0	50.3	46.0	50.7	9.0	16.4
138	90.0	82.1	75.0	82.9	15.0	16.7
139	42.0	51.8	62.0	52.2	-20.0	-47.6
140	72.0	73.2	75.0	73.8	-3.0	-4.2
141	105.0	106.0	108.0	107.0	-3.0	-2.9
142	180.0	208.1	238.0	209.9	-58.0	-32.2
143	204.0	232.5	263.0	234.5	-59.0	-28.9
144	89.0	79.6	71.0	80.4	18.0	20.2
145	68.0	69.7	72.0	70.3	-4.0	-5.9
146	56.0	43.8	32.0	44.2	24.0	42.9
147	96.0	87.6	80.0	88.4	16.0	16.7
148	64.0	56.2	49.0	56.8	15.0	23.4
149	106.0	87.6	70.0	88.4	36.0	34.0
150	204.0	190.6	179.0	192.4	25.0	12.3
151	221.0	207.6	196.0	209.4	25.0	11.3
152	72.0	70.2	69.0	70.8	3.0	4.2
153	37.0	45.8	55.0	44.2	-18.0	-48.6
154	80.0	75.7	72.0	76.3	8.0	10.0
155	52.0	55.3	59.0	55.7	-7.0	-13.5
156	80.0	78.6	78.0	79.4	2.0	2.5
157	128.0	134.9	143.0	136.1	-15.0	-11.7
158	84.0	65.7	48.0	66.3	36.0	42.9
159	47.0	53.3	60.0	53.7	-13.0	-27.7
160	188.0	213.5	241.0	215.5	-53.0	-28.2
161	228.0	186.7	147.0	188.3	81.0	35.5
162	272.0	235.4	201.0	237.6	71.0	26.1
163	144.0	173.2	204.0	174.8	-60.0	-41.7
164	76.0	72.7	70.0	73.3	6.0	7.9

165	60.0	47.3	35.0	47.7	25.0	41.7
166	80.0	71.2	63.0	71.8	17.0	21.3
167	56.0	53.3	51.0	53.7	5.0	8.9
168	132.0	117.5	104.0	118.5	28.0	21.2
169	55.0	44.3	34.0	44.7	21.0	38.2
170	75.0	60.7	47.0	61.3	28.0	37.3
171	36.0	44.8	54.0	45.2	-18.0	-50.0
172	45.0	58.2	72.0	58.8	-27.0	-60.0
173	67.0	80.6	95.0	81.4	-28.0	-41.8
174	71.0	85.6	101.0	86.4	-30.0	-42.3
175	56.0	63.2	71.0	63.8	-15.0	-26.8
176	120.0	149.3	180.0	150.7	-60.0	-50.0
177	32.0	42.3	53.0	42.7	-21.0	-65.6
178	52.0	50.3	49.0	50.7	3.0	5.8
179	48.0	48.8	50.0	49.2	-2.0	-4.2
180	48.0	56.2	65.0	56.8	-17.0	-35.4
181	56.0	47.3	39.0	47.7	17.0	30.4
182	80.0	57.7	36.0	58.3	44.0	55.0
183	40.0	49.8	60.0	50.2	-20.0	-50.0
184	41.0	48.8	57.0	49.2	-16.0	-39.0
185	395.0	332.5	273.0	335.5	122.0	30.9
186	108.0	115.0	123.0	116.0	-15.0	-13.9
187	36.0	42.8	50.0	43.2	-14.0	-38.9
188	934.0	1143.4	1363.0	1153.6	-429.0	-45.9
189	278.0	220.5	165.0	222.5	113.0	40.6
190	66.0	58.2	51.0	58.8	15.0	22.7
191	104.0	97.6	92.0	98.4	12.0	11.5
192	596.0	765.1	941.0	771.9	-345.0	-57.9
193	132.0	95.6	60.0	96.4	72.0	54.5
194	81.0	81.6	83.0	82.4	-2.0	-2.5
195	60.0	59.7	60.0	60.3	0.0	0.0
196	258.0	314.1	373.0	316.9	-115.0	-44.6
197	79.0	85.6	93.0	86.4	-14.0	-17.7
198	160.0	181.2	204.0	182.8	-44.0	-27.5
199	61.0	64.7	69.0	65.3	-8.0	-13.1
200	162.0	145.3	130.0	146.7	32.0	19.8
201	992.0	740.2	495.0	746.8	497.0	50.1
202	231.0	275.3	322.0	277.7	-91.0	-39.4
203	124.0	140.4	158.0	141.6	-34.0	-27.4
204	313.0	401.2	493.0	404.8	-180.0	-57.5
205	92.0	64.7	38.0	65.3	54.0	58.7
206	61.0	57.7	55.0	58.3	6.0	9.8
207	228.0	157.8	89.0	159.2	139.0	61.0
208	43.0	54.3	66.0	54.7	-23.0	-53.5
209	141.0	102.5	65.0	103.5	76.0	53.9
210	79.0	56.7	35.0	57.3	44.0	55.7
211	93.0	114.0	136.0	115.0	-43.0	-46.2
212	169.0	139.4	111.0	140.6	58.0	34.3
213	68.0	57.2	47.0	57.8	21.0	30.9
214	79.0	95.6	113.0	96.4	-34.0	-43.0
215	48.0	52.3	57.0	52.7	-9.0	-18.7
216	43.0	48.3	54.0	48.7	-11.0	-25.6
217	56.0	52.3	49.0	52.7	7.0	12.5
218	88.0	79.6	72.0	80.4	16.0	18.2
219	340.0	280.2	223.0	282.8	117.0	34.4
220	136.0	160.3	186.0	161.7	-50.0	-36.8
221	112.0	79.1	47.0	79.9	65.0	58.0
222	56.0	59.7	64.0	60.3	-8.0	-14.3
223	1024.0	1125.0	1236.0	1135.0	-212.0	-20.7
224	152.0	167.3	184.0	168.7	-32.0	-21.1
225	104.0	129.4	156.0	130.6	-52.0	-50.0

226	2303.0	2586.4	2893.0	2609.6	-590.0	-25.6
227	331.0	264.8	201.0	267.2	130.0	39.3
228	58.0	50.8	44.0	51.2	14.0	24.1
229	135.0	136.9	140.0	138.1	-5.0	-3.7
230	1240.0	843.2	454.0	850.8	786.0	63.4
231	168.0	133.4	100.0	134.6	68.0	40.5
232	84.0	60.7	38.0	61.3	46.0	54.8
233	76.0	92.1	109.0	92.9	-33.0	-43.4
234	103.0	98.1	94.0	98.9	9.0	8.7
235	78.0	67.7	58.0	68.3	20.0	25.6
236	261.0	233.0	207.0	235.0	54.0	20.7
237	55.0	65.2	76.0	65.8	-21.0	-38.2
238	72.0	92.1	113.0	92.9	-41.0	-56.9
239	315.0	392.2	473.0	395.8	-158.0	-50.2
240	79.0	83.1	88.0	83.9	-9.0	-11.4
241	65.0	70.2	76.0	70.8	-11.0	-16.9
242	70.0	54.8	40.0	55.2	30.0	42.9
243	49.0	66.2	84.0	66.8	-35.0	-71.4
244	726.0	711.3	703.0	717.7	23.0	3.2
245	312.0	287.2	265.0	289.8	47.0	15.1
246	56.0	54.3	53.0	54.7	3.0	5.4
247	154.0	186.7	221.0	188.3	-67.0	-43.5
248	2970.0	2917.0	2890.0	2943.0	80.0	2.7
249	330.0	398.2	470.0	401.8	-140.0	-42.4
250	318.0	412.7	511.0	416.3	-193.0	-60.7
251	88.0	98.6	110.0	99.4	-22.0	-25.0
252	88.0	115.0	143.0	116.0	-55.0	-62.5
253	89.0	74.7	61.0	75.3	28.0	31.5
254	50.0	51.3	53.0	51.7	-3.0	-6.0
255	112.0	97.1	83.0	97.9	29.0	25.9
256	60.0	72.7	86.0	73.3	-26.0	-43.3
257	168.0	122.0	77.0	123.0	91.0	54.2
258	68.0	67.2	67.0	67.8	1.0	1.5
259	30.0	40.8	52.0	41.2	-22.0	-73.3
260	65.0	59.2	54.0	59.8	11.0	16.9
261	111.0	97.6	85.0	98.4	26.0	23.4
262	90.0	93.6	98.0	94.4	-8.0	-8.9
263	132.0	105.5	80.0	106.5	52.0	39.4
264	154.0	114.5	76.0	115.5	78.0	50.6
265	292.0	306.1	323.0	308.9	-31.0	-10.6
266	60.0	62.7	66.0	63.3	-6.0	-10.0
267	200.0	224.5	251.0	226.5	-51.0	-25.5
268	48.0	48.8	50.0	49.2	-2.0	-4.2

AVERAGE DIFFERENCE IN OBS. FREQ. = 39.3
 AVERAGE PERCENTAGE DIFFERENCE = 28.4
 ROOT MEAN SQUARE ERROR = 87.32
 T-VALUE FOR PAIRED COMPARISON = -0.23

RAW CHI-SQUARE = 2278.489 WITH 267 DEGREES OF FREEDOM

T-VALUE = 44.419

CUT-OFF VALUE = 25.000 (GLATDS vs Directory, Zone-Tract)

THERE ARE 563 PAIRS (COLUMNS) IN THE
2 BY K CONTINGENCY TABLE

HOME-INTERVIEW TOTAL = 46458
OTHER SURVEY TOTAL = 46183

PAIR NO.	H-I OBS.	H-I EXP.	O-S OBS.	O-S EXP.	OBS.DIFF	PCT.DIFF
1	27.0	25.1	23.0	24.9	4.0	14.8
2	26.0	30.6	35.0	30.4	-9.0	-34.6
3	25.0	17.6	10.0	17.4	15.0	60.0
4	69.0	77.2	85.0	76.8	-16.0	-23.2
5	31.0	24.6	18.0	24.4	13.0	41.9
6	19.0	24.1	29.0	23.9	-10.0	-52.6
7	37.0	39.6	42.0	39.4	-5.0	-13.5
8	25.0	19.6	14.0	19.4	11.0	44.0
9	30.0	27.6	25.0	27.4	5.0	16.7
10	32.0	27.6	23.0	27.4	9.0	28.1
11	90.0	91.3	92.0	90.7	-2.0	-2.2
12	60.0	62.2	64.0	61.8	-4.0	-6.7
13	28.0	21.1	14.0	20.9	14.0	50.0
14	68.0	52.7	37.0	52.3	31.0	45.6
15	58.0	44.1	30.0	43.9	28.0	48.3
16	92.0	72.2	52.0	71.8	40.0	43.5
17	48.0	52.7	57.0	52.3	-9.0	-18.7
18	28.0	33.6	39.0	33.4	-11.0	-39.3
19	25.0	24.1	23.0	23.9	2.0	8.0
20	40.0	40.1	40.0	39.9	0.0	0.0
21	29.0	23.1	17.0	22.9	12.0	41.4
22	36.0	34.6	33.0	34.4	3.0	8.3
23	34.0	31.1	28.0	30.9	6.0	17.6
24	32.0	24.1	16.0	23.9	16.0	50.0
25	98.0	117.3	136.0	116.7	-38.0	-38.8
26	104.0	121.9	139.0	121.1	-35.0	-33.7
27	35.0	38.6	42.0	38.4	-7.0	-20.0
28	97.0	109.8	122.0	109.2	-25.0	-25.8
29	48.0	48.1	48.0	47.9	0.0	0.0
30	48.0	45.1	42.0	44.9	6.0	12.5
31	42.0	28.1	14.0	27.9	28.0	66.7
32	117.0	141.4	165.0	140.6	-48.0	-41.0
33	31.0	23.1	15.0	22.9	16.0	51.6
34	61.0	62.7	64.0	62.3	-3.0	-4.9
35	27.0	27.6	28.0	27.4	-1.0	-3.7
36	26.0	27.1	28.0	26.9	-2.0	-7.7
37	41.0	43.1	45.0	42.9	-4.0	-9.8
38	109.0	99.8	90.0	99.2	19.0	17.4
39	103.0	95.3	87.0	94.7	16.0	15.5
40	32.0	29.1	26.0	28.9	6.0	18.7
41	65.0	65.2	65.0	64.8	0.0	0.0
42	49.0	46.1	43.0	45.9	6.0	12.2

43	26.0	20.1	14.0	19.9	12.0	46.2
44	77.0	83.7	90.0	83.3	-13.0	-16.9
45	32.0	35.6	39.0	35.4	-7.0	-21.9
46	104.0	139.9	175.0	139.1	-71.0	-68.3
47	68.0	55.2	42.0	54.8	26.0	38.2
48	32.0	37.1	42.0	36.9	-10.0	-31.3
49	31.0	27.1	23.0	26.9	8.0	25.8
50	49.0	58.2	67.0	57.8	-18.0	-36.7
51	28.0	35.6	43.0	35.4	-15.0	-53.6
52	16.0	20.6	25.0	20.4	-9.0	-56.3
53	25.0	27.6	30.0	27.4	-5.0	-20.0
54	92.0	118.4	144.0	117.6	-52.0	-56.5
55	60.0	53.2	46.0	52.8	14.0	23.3
56	24.0	30.6	37.0	30.4	-13.0	-54.2
57	84.0	97.3	110.0	96.7	-26.0	-31.0
58	39.0	32.6	26.0	32.4	13.0	33.3
59	32.0	39.1	46.0	38.9	-14.0	-43.8
60	108.0	108.3	108.0	107.7	0.0	0.0
61	224.0	233.2	241.0	231.8	-17.0	-7.6
62	45.0	32.1	19.0	31.9	26.0	57.8
63	48.0	54.2	60.0	53.8	-12.0	-25.0
64	96.0	94.3	92.0	93.7	4.0	4.2
65	56.0	46.6	37.0	46.4	19.0	33.9
66	61.0	59.2	57.0	58.8	4.0	6.6
67	24.0	28.1	32.0	27.9	-8.0	-33.3
68	18.0	21.6	25.0	21.4	-7.0	-38.9
69	35.0	35.6	36.0	35.4	-1.0	-2.9
70	32.0	39.6	47.0	39.4	-15.0	-46.9
71	52.0	54.2	56.0	53.8	-4.0	-7.7
72	114.0	118.9	123.0	118.1	-9.0	-7.9
73	20.0	22.6	25.0	22.4	-5.0	-25.0
74	48.0	58.7	69.0	58.3	-21.0	-43.8
75	72.0	85.8	99.0	85.2	-27.0	-37.5
76	84.0	67.2	50.0	66.8	34.0	40.5
77	70.0	84.2	98.0	83.8	-28.0	-40.0
78	72.0	55.7	39.0	55.3	33.0	45.8
79	160.0	138.4	116.0	137.6	44.0	27.5
80	29.0	33.6	38.0	33.4	-9.0	-31.0
81	29.0	33.6	38.0	33.4	-9.0	-31.0
82	75.0	90.3	105.0	89.7	-30.0	-40.0
83	30.0	35.6	41.0	35.4	-11.0	-36.7
84	32.0	25.1	18.0	24.9	14.0	43.8
85	29.0	26.1	23.0	25.9	6.0	20.7
86	32.0	40.6	49.0	40.4	-17.0	-53.1
87	120.0	111.8	103.0	111.2	17.0	14.2
88	32.0	30.1	28.0	29.9	4.0	12.5
89	63.0	63.7	64.0	63.3	-1.0	-1.6
90	37.0	44.1	51.0	43.9	-14.0	-37.8
91	24.0	30.1	36.0	29.9	-12.0	-50.0
92	66.0	64.7	63.0	64.3	3.0	4.5
93	23.0	30.1	37.0	29.9	-14.0	-60.9
94	95.0	103.3	111.0	102.7	-16.0	-16.8
95	26.0	21.6	17.0	21.4	9.0	34.6
96	26.0	21.6	17.0	21.4	9.0	34.6
97	26.0	33.6	41.0	33.4	-15.0	-57.7
98	26.0	27.1	28.0	26.9	-2.0	-7.7
99	55.0	49.6	44.0	49.4	11.0	20.0
100	43.0	47.6	52.0	47.4	-9.0	-20.9
101	83.0	93.3	103.0	92.7	-20.0	-24.1
102	218.0	195.6	172.0	194.4	46.0	21.1
103	43.0	37.6	32.0	37.4	11.0	25.6

104	96.0	71.2	46.0	70.8	50.0	52.1
105	41.0	30.6	20.0	30.4	21.0	51.2
106	44.0	31.6	19.0	31.4	25.0	56.8
107	82.0	78.7	75.0	78.3	7.0	8.5
108	40.0	36.1	32.0	35.9	8.0	20.0
109	40.0	35.1	30.0	34.9	10.0	25.0
110	30.0	29.6	29.0	29.4	1.0	3.3
111	23.0	26.1	29.0	25.9	-6.0	-26.1
112	38.0	37.6	37.0	37.4	1.0	2.6
113	28.0	26.6	25.0	26.4	3.0	10.7
114	24.0	25.6	27.0	25.4	-3.0	-12.5
115	41.0	47.1	53.0	46.9	-12.0	-29.3
116	46.0	33.1	20.0	32.9	26.0	56.5
117	29.0	27.6	26.0	27.4	3.0	10.3
118	97.0	78.2	59.0	77.8	38.0	39.2
119	30.0	41.1	52.0	40.9	-22.0	-73.3
120	28.0	25.1	22.0	24.9	6.0	21.4
121	28.0	25.1	22.0	24.9	6.0	21.4
122	54.0	57.7	61.0	57.3	-7.0	-13.0
123	24.0	27.6	31.0	27.4	-7.0	-29.2
124	60.0	54.7	49.0	54.3	11.0	18.3
125	32.0	28.1	24.0	27.9	8.0	25.0
126	96.0	92.8	89.0	92.2	7.0	7.3
127	26.0	29.1	32.0	28.9	-6.0	-23.1
128	114.0	99.3	84.0	98.7	30.0	26.3
129	36.0	45.6	55.0	45.4	-19.0	-52.8
130	24.0	29.1	34.0	28.9	-10.0	-41.7
131	32.0	34.1	36.0	33.9	-4.0	-12.5
132	32.0	35.1	38.0	34.9	-6.0	-18.7
133	32.0	30.1	28.0	29.9	4.0	12.5
134	16.0	21.1	26.0	20.9	-10.0	-62.5
135	32.0	30.1	28.0	29.9	4.0	12.5
136	42.0	47.1	52.0	46.9	-10.0	-23.8
137	137.0	128.9	120.0	128.1	17.0	12.4
138	63.0	59.2	55.0	58.8	8.0	12.7
139	69.0	92.8	116.0	92.2	-47.0	-68.1
140	26.0	29.6	33.0	29.4	-7.0	-26.9
141	71.0	79.7	88.0	79.3	-17.0	-23.9
142	91.0	120.4	149.0	119.6	-58.0	-63.7
143	108.0	134.4	160.0	133.6	-52.0	-48.1
144	27.0	25.1	23.0	24.9	4.0	14.8
145	35.0	24.1	13.0	23.9	22.0	62.9
146	27.0	26.1	25.0	25.9	2.0	7.4
147	34.0	30.1	26.0	29.9	8.0	23.5
148	27.0	32.6	38.0	32.4	-11.0	-40.7
149	86.0	78.2	70.0	77.8	16.0	18.6
150	142.0	154.0	165.0	153.0	-23.0	-16.2
151	183.0	176.0	168.0	175.0	15.0	8.2
152	64.0	73.7	83.0	73.3	-19.0	-29.7
153	29.0	29.6	30.0	29.4	-1.0	-3.4
154	117.0	121.4	125.0	120.6	-8.0	-6.8
155	45.0	58.2	71.0	57.8	-26.0	-57.8
156	28.0	18.1	8.0	17.9	20.0	71.4
157	32.0	21.1	10.0	20.9	22.0	68.8
158	56.0	64.2	72.0	63.8	-16.0	-28.6
159	48.0	37.1	26.0	36.9	22.0	45.8
160	28.0	24.1	20.0	23.9	8.0	28.6
161	32.0	30.1	28.0	29.9	4.0	12.5
162	16.0	21.1	26.0	20.9	-10.0	-62.5
163	81.0	70.7	60.0	70.3	21.0	25.9
164	25.0	29.1	33.0	28.9	-8.0	-32.0

165	26.0	28.1	30.0	27.9	-4.0	-15.4
166	108.0	118.4	128.0	117.6	-20.0	-18.5
167	67.0	75.2	83.0	74.8	-16.0	-23.9
168	106.0	100.3	94.0	99.7	12.0	11.3
169	27.0	30.6	34.0	30.4	-7.0	-25.9
170	35.0	36.1	37.0	35.9	-2.0	-5.7
171	71.0	63.7	56.0	63.3	15.0	21.1
172	184.0	210.6	236.0	209.4	-52.0	-28.3
173	96.0	90.8	85.0	90.2	11.0	11.5
174	53.0	55.7	58.0	55.3	-5.0	-9.4
175	40.0	30.6	21.0	30.4	19.0	47.5
176	86.0	80.7	75.0	80.3	11.0	12.8
177	21.0	24.1	27.0	23.9	-6.0	-28.6
178	48.0	50.6	53.0	50.4	-5.0	-10.4
179	16.0	21.1	26.0	20.9	-10.0	-62.5
180	44.0	43.6	43.0	43.4	1.0	2.3
181	60.0	62.2	64.0	61.8	-4.0	-6.7
182	28.0	26.6	25.0	26.4	3.0	10.7
183	90.0	65.2	40.0	64.8	50.0	55.6
184	18.0	22.6	27.0	22.4	-9.0	-50.0
185	18.0	22.6	27.0	22.4	-9.0	-50.0
186	57.0	74.2	91.0	73.8	-34.0	-59.6
187	117.0	98.8	80.0	98.2	37.0	31.6
188	47.0	58.2	69.0	57.8	-22.0	-46.8
189	43.0	38.1	33.0	37.9	10.0	23.3
190	29.0	25.1	21.0	24.9	8.0	27.6
191	36.0	29.6	23.0	29.4	13.0	36.1
192	35.0	29.6	24.0	29.4	11.0	31.4
193	261.0	243.7	225.0	242.3	36.0	13.8
194	45.0	45.1	45.0	44.9	0.0	0.0
195	49.0	49.1	49.0	48.9	0.0	0.0
196	36.0	30.1	24.0	26.9	12.0	33.3
197	54.0	44.6	35.0	44.4	19.0	35.2
198	21.0	23.1	25.0	22.9	-4.0	-19.0
199	31.0	36.6	42.0	36.4	-11.0	-35.5
200	36.0	47.1	58.0	46.9	-22.0	-61.1
201	27.0	26.6	26.0	26.4	1.0	3.7
202	314.0	295.9	276.0	294.1	38.0	12.1
203	38.0	41.6	45.0	41.4	-7.0	-18.4
204	36.0	28.1	20.0	27.9	16.0	44.4
205	27.0	28.1	29.0	27.9	-2.0	-7.4
206	27.0	22.1	17.0	21.9	10.0	37.0
207	54.0	56.7	59.0	54.3	-5.0	-9.3
208	18.0	23.1	28.0	22.9	-10.0	-55.6
209	522.0	430.8	337.0	428.2	185.0	35.4
210	48.0	54.2	60.0	53.8	-12.0	-25.0
211	48.0	55.7	63.0	55.3	-15.0	-31.3
212	52.0	48.1	44.0	47.9	8.0	15.4
213	40.0	40.1	40.0	39.9	0.0	0.0
214	32.0	37.6	43.0	37.4	-11.0	-34.4
215	72.0	84.8	97.0	84.2	-25.0	-34.7
216	333.0	365.6	396.0	363.4	-63.0	-18.9
217	48.0	35.6	23.0	35.4	25.0	52.1
218	39.0	36.1	33.0	35.9	6.0	15.4
219	52.0	63.7	75.0	63.3	-23.0	-44.2
220	20.0	24.1	28.0	23.9	-8.0	-40.0
221	20.0	24.1	28.0	23.9	-8.0	-40.0
222	24.0	30.6	37.0	30.4	-13.0	-54.2
223	32.0	36.1	40.0	35.9	-8.0	-25.0
224	56.0	48.6	41.0	48.4	15.0	26.8
225	164.0	173.0	181.0	172.0	-17.0	-10.4

226	19.0	24.6	30.0	24.4	-11.0	-57.9
227	55.0	55.2	55.0	54.8	0.0	0.0
228	112.0	111.8	111.0	111.2	1.0	.9
229	36.0	32.1	28.0	31.9	8.0	22.2
230	27.0	26.6	26.0	26.4	1.0	3.7
231	44.0	42.6	41.0	42.4	3.0	6.8
232	26.0	24.6	23.0	24.4	3.0	11.5
233	71.0	88.3	105.0	87.7	-34.0	-47.9
234	116.0	157.0	197.0	156.0	-81.0	-69.8
235	53.0	50.1	47.0	49.9	6.0	11.3
236	26.0	21.1	16.0	20.9	10.0	38.5
237	63.0	54.2	45.0	53.8	18.0	28.6
238	30.0	33.1	36.0	32.9	-6.0	-20.0
239	38.0	38.1	38.0	37.9	0.0	0.0
240	26.0	22.6	19.0	22.4	7.0	26.9
241	40.0	44.6	49.0	44.4	-9.0	-22.5
242	62.0	61.2	60.0	60.8	2.0	3.2
243	30.0	22.6	15.0	22.4	15.0	50.0
244	55.0	54.2	53.0	53.8	2.0	3.6
245	30.0	33.1	36.0	32.9	-6.0	-20.0
246	30.0	30.1	30.0	29.9	0.0	0.0
247	32.0	32.1	32.0	31.9	0.0	0.0
248	36.0	28.6	21.0	28.4	15.0	41.7
249	20.0	23.6	27.0	23.4	-7.0	-35.0
250	88.0	73.2	58.0	72.8	30.0	34.1
251	32.0	24.1	16.0	23.9	16.0	50.0
252	26.0	19.6	13.0	19.4	13.0	50.0
253	31.0	39.6	48.0	39.4	-17.0	-54.8
254	49.0	43.6	38.0	43.4	11.0	22.4
255	49.0	56.7	64.0	56.3	-15.0	-30.6
256	178.0	163.5	148.0	162.5	30.0	16.9
257	27.0	29.1	31.0	28.9	-4.0	-14.8
258	24.0	29.1	34.0	28.9	-10.0	-41.7
259	40.0	38.6	37.0	38.4	3.0	7.5
260	44.0	44.6	45.0	44.4	-1.0	-2.3
261	144.0	170.0	195.0	169.0	-51.0	-35.4
262	44.0	48.1	52.0	47.9	-8.0	-18.2
263	56.0	52.2	48.0	51.8	8.0	14.3
264	32.0	29.6	27.0	29.4	5.0	15.6
265	26.0	29.6	33.0	29.4	-7.0	-26.9
266	27.0	21.6	16.0	21.4	11.0	40.7
267	36.0	26.1	16.0	25.9	20.0	55.6
268	30.0	38.1	46.0	37.9	-16.0	-53.3
269	72.0	64.2	56.0	63.8	16.0	22.2
270	40.0	29.1	18.0	28.9	22.0	55.0
271	17.0	21.1	25.0	20.9	-8.0	-47.1
272	30.0	39.1	48.0	38.9	-18.0	-60.0
273	32.0	26.6	21.0	26.4	11.0	34.4
274	48.0	36.1	24.0	35.9	24.0	50.0
275	16.0	21.1	26.0	20.9	-10.0	-62.5
276	32.0	32.1	32.0	31.9	0.0	0.0
277	64.0	76.7	89.0	76.3	-25.0	-39.1
278	34.0	30.6	27.0	30.4	7.0	20.6
279	28.0	26.6	25.0	26.4	3.0	10.7
280	52.0	69.7	87.0	69.3	-35.0	-67.3
281	52.0	69.7	87.0	69.3	-35.0	-67.3
282	96.0	95.3	94.0	94.7	2.0	2.1
283	112.0	105.3	98.0	104.7	14.0	12.5
284	40.0	48.1	56.0	47.9	-16.0	-40.0
285	64.0	48.6	33.0	48.4	31.0	48.4
286	44.0	35.6	27.0	35.4	17.0	38.6

287	26.0	22.6	19.0	22.4	7.0	26.9
288	61.0	64.2	67.0	63.8	-6.0	-9.8
289	26.0	29.6	33.0	29.4	-7.0	-26.9
290	29.0	27.1	25.0	26.9	4.0	13.8
291	169.0	147.9	126.0	147.1	43.0	25.4
292	210.0	195.1	179.0	193.9	31.0	14.8
293	64.0	68.2	72.0	67.8	-8.0	-12.5
294	52.0	51.2	50.0	50.8	2.0	3.8
295	28.0	30.1	32.0	29.9	-4.0	-14.3
296	20.0	23.6	27.0	23.4	-7.0	-35.0
297	32.0	35.1	38.0	34.9	-6.0	-18.7
298	72.0	57.7	43.0	57.3	29.0	40.3
299	32.0	20.6	9.0	20.4	23.0	71.9
300	85.0	86.3	87.0	85.7	-2.0	-2.4
301	84.0	58.7	33.0	58.3	51.0	60.7
302	192.0	191.1	189.0	189.9	3.0	1.6
303	32.0	27.6	23.0	27.4	9.0	28.1
304	24.0	28.1	32.0	27.9	-8.0	-33.3
305	44.0	47.1	50.0	46.9	-6.0	-13.6
306	32.0	33.6	35.0	33.4	-3.0	-9.4
307	32.0	23.1	14.0	22.9	18.0	56.3
308	72.0	65.2	58.0	64.8	14.0	19.4
309	17.0	21.6	26.0	21.4	-9.0	-52.9
310	21.0	25.1	29.0	24.9	-8.0	-38.1
311	16.0	21.6	27.0	21.4	-11.0	-68.8
312	57.0	44.1	31.0	43.9	26.0	45.6
313	46.0	50.6	55.0	50.4	-9.0	-19.6
314	18.0	24.1	30.0	23.9	-12.0	-66.7
315	30.0	33.1	36.0	32.9	-6.0	-20.0
316	40.0	33.1	26.0	32.9	14.0	35.0
317	90.0	82.7	75.0	82.3	15.0	16.7
318	50.0	44.1	38.0	43.9	12.0	24.0
319	55.0	50.6	46.0	50.4	9.0	16.4
320	90.0	82.7	75.0	82.3	15.0	16.7
321	42.0	52.2	62.0	51.8	-20.0	-47.6
322	33.0	26.6	20.0	26.4	13.0	39.4
323	72.0	73.7	75.0	73.3	-3.0	-4.2
324	31.0	24.1	17.0	23.9	14.0	45.2
325	105.0	106.8	108.0	106.2	-3.0	-2.9
326	26.0	19.6	13.0	19.4	13.0	50.0
327	180.0	209.6	238.0	208.4	-58.0	-32.2
328	204.0	234.2	263.0	232.8	-59.0	-28.9
329	89.0	80.2	71.0	79.8	18.0	20.2
330	32.0	37.6	43.0	37.4	-11.0	-34.4
331	68.0	70.2	72.0	69.8	-4.0	-5.9
332	32.0	30.1	28.0	29.9	4.0	12.5
333	56.0	44.1	32.0	43.9	24.0	42.9
334	33.0	31.6	30.0	31.4	3.0	9.1
335	96.0	88.3	80.0	87.7	16.0	16.7
336	39.0	42.1	45.0	41.9	-6.0	-15.4
337	24.0	28.6	33.0	28.4	-9.0	-37.5
338	64.0	56.7	49.0	56.3	15.0	23.4
339	106.0	88.3	70.0	87.7	36.0	34.0
340	26.0	27.1	28.0	26.9	-2.0	-7.7
341	204.0	192.1	179.0	190.9	25.0	12.3
342	221.0	209.1	196.0	207.9	25.0	11.3
343	72.0	70.7	69.0	70.3	3.0	4.2
344	37.0	46.1	55.0	45.9	-18.0	-49.6
345	80.0	76.2	72.0	75.8	8.0	10.0
346	52.0	55.7	59.0	55.3	-7.0	-13.5
347	80.0	79.2	78.0	78.8	2.0	2.5

348	33.0	29.1	25.0	28.9	8.0	24.2
349	23.0	25.6	28.0	25.4	-5.0	-21.7
350	128.0	135.9	143.0	135.1	-15.0	-11.7
351	36.0	36.6	37.0	36.4	-1.0	-2.8
352	84.0	66.2	48.0	65.8	36.0	42.9
353	40.0	33.6	27.0	33.4	13.0	32.5
354	34.0	37.1	40.0	36.9	-6.0	-17.6
355	47.0	53.7	60.0	53.3	-13.0	-27.7
356	188.0	215.1	241.0	213.9	-53.0	-28.2
357	26.0	23.6	21.0	23.4	5.0	19.2
358	45.0	41.1	37.0	40.9	8.0	17.8
359	228.0	188.1	147.0	186.9	81.0	35.5
360	272.0	237.2	201.0	235.8	71.0	26.1
361	144.0	174.5	204.0	173.5	-60.0	-41.7
362	48.0	48.1	48.0	47.9	0.0	0.0
363	76.0	73.2	70.0	72.8	6.0	7.9
364	60.0	47.6	35.0	47.4	25.0	41.7
365	44.0	37.6	31.0	37.4	13.0	29.5
366	80.0	71.7	63.0	71.3	17.0	21.3
367	56.0	53.7	51.0	53.3	5.0	8.9
368	132.0	118.4	104.0	117.6	28.0	21.2
369	55.0	44.6	34.0	44.4	21.0	38.2
370	75.0	61.2	47.0	60.8	28.0	37.3
371	27.0	27.6	28.0	27.4	-1.0	-3.7
372	27.0	30.1	33.0	29.9	-6.0	-22.2
373	36.0	45.1	54.0	44.9	-18.0	-50.0
374	36.0	27.6	19.0	27.4	17.0	47.2
375	45.0	58.7	72.0	58.3	-27.0	-60.0
376	67.0	81.2	95.0	80.8	-28.0	-41.8
377	28.0	32.1	36.0	31.9	-8.0	-28.6
378	71.0	86.3	101.0	85.7	-30.0	-42.3
379	30.0	29.1	28.0	28.9	2.0	6.7
380	24.0	25.6	27.0	25.4	-3.0	-12.5
381	32.0	29.1	26.0	28.9	6.0	18.7
382	28.0	26.1	24.0	25.9	4.0	14.3
383	26.0	30.6	35.0	30.4	-9.0	-34.6
384	28.0	32.6	37.0	32.4	-9.0	-32.1
385	56.0	63.7	71.0	63.3	-15.0	-26.8
386	40.0	32.6	25.0	32.4	15.0	37.5
387	40.0	34.6	29.0	34.4	11.0	27.5
388	32.0	25.1	18.0	24.9	14.0	43.8
389	120.0	150.4	180.0	149.6	-60.0	-50.0
390	36.0	40.1	44.0	39.9	-8.0	-22.2
391	32.0	42.6	53.0	42.4	-21.0	-65.6
392	48.0	47.1	46.0	44.9	2.0	4.2
393	36.0	35.6	35.0	35.4	1.0	2.8
394	52.0	50.6	49.0	50.4	3.0	5.8
395	32.0	36.6	41.0	36.4	-9.0	-28.1
396	32.0	39.1	46.0	38.9	-14.0	-43.8
397	48.0	49.1	50.0	48.9	-2.0	-4.2
398	48.0	56.7	65.0	56.3	-17.0	-35.4
399	48.0	33.1	18.0	32.9	30.0	62.5
400	42.0	35.6	29.0	35.4	13.0	31.0
401	31.0	25.6	20.0	25.4	11.0	35.5
402	16.0	21.1	26.0	20.9	-10.0	-62.5
403	32.0	37.1	42.0	36.9	-10.0	-31.3
404	56.0	47.6	39.0	47.4	17.0	30.4
405	80.0	58.2	36.0	57.8	44.0	55.0
406	40.0	38.1	36.0	37.9	4.0	10.0
407	28.0	22.1	16.0	21.9	12.0	42.9
408	42.0	31.1	20.0	30.9	22.0	52.4

409	18.0	21.6	25.0	21.4	-7.0	-38.9
410	27.0	31.6	36.0	31.4	-9.0	-33.3
411	40.0	50.1	60.0	49.9	-20.0	-50.0
412	41.0	49.1	57.0	48.9	-16.0	-39.0
413	395.0	335.0	273.0	333.0	122.0	30.9
414	108.0	115.8	123.0	115.2	-15.0	-13.9
415	36.0	25.6	15.0	25.4	21.0	58.3
416	36.0	43.1	50.0	42.9	-14.0	-38.9
417	934.0	1151.9	1363.0	1145.1	-429.0	-45.9
418	278.0	222.2	165.0	220.8	113.0	40.6
419	66.0	58.7	51.0	58.3	15.0	22.7
420	104.0	98.3	92.0	97.7	12.0	11.5
421	40.0	25.1	10.0	24.9	30.0	75.0
422	25.0	26.6	28.0	26.4	-3.0	-12.0
423	33.0	37.1	41.0	36.9	-8.0	-24.2
424	596.0	770.8	941.0	766.2	-345.0	-57.9
425	132.0	96.3	60.0	95.7	72.0	54.5
426	28.0	27.1	26.0	26.9	2.0	7.1
427	32.0	22.1	12.0	21.9	20.0	62.5
428	21.0	23.6	26.0	23.4	-5.0	-23.8
429	81.0	82.2	83.0	81.8	-2.0	-2.5
430	60.0	60.2	60.0	59.8	0.0	0.0
431	258.0	316.4	373.0	314.6	-115.0	-44.6
432	79.0	86.3	93.0	85.7	-14.0	-17.7
433	28.0	25.6	23.0	25.4	5.0	17.9
434	38.0	32.1	26.0	31.9	12.0	31.6
435	27.0	21.6	16.0	21.4	11.0	40.7
436	18.0	24.6	31.0	24.4	-13.0	-72.2
437	160.0	182.5	204.0	181.5	-44.0	-27.5
438	61.0	65.2	69.0	64.8	-8.0	-13.1
439	162.0	146.4	130.0	145.6	32.0	19.8
440	40.0	35.1	30.0	34.9	10.0	25.0
441	36.0	40.6	45.0	40.4	-9.0	-25.0
442	36.0	34.1	32.0	33.9	4.0	11.1
443	25.0	16.5	8.0	16.5	17.0	68.0
444	992.0	745.7	495.0	741.3	497.0	50.1
445	231.0	277.3	322.0	275.7	-91.0	-39.4
446	124.0	141.4	158.0	140.6	-34.0	-27.4
447	25.0	24.6	24.0	24.4	1.0	4.0
448	313.0	404.2	493.0	401.8	-180.0	-57.5
449	92.0	65.2	38.0	64.8	54.0	58.7
450	30.0	27.1	24.0	26.9	6.0	20.0
451	35.0	27.1	19.0	26.9	16.0	45.7
452	18.0	22.6	27.0	22.4	-9.0	-50.0
453	61.0	58.2	55.0	57.8	6.0	9.8
454	43.0	40.6	38.0	40.4	5.0	11.6
455	228.0	159.0	89.0	158.0	139.0	61.0
456	43.0	54.7	66.0	54.3	-23.0	-53.5
457	27.0	28.6	30.0	28.4	-3.0	-11.1
458	20.0	24.6	29.0	24.4	-9.0	-45.0
459	24.0	25.1	26.0	24.9	-2.0	-8.3
460	27.0	24.6	22.0	24.4	5.0	18.5
461	141.0	103.3	65.0	102.7	76.0	53.9
462	79.0	57.2	35.0	56.8	44.0	55.7
463	93.0	114.8	136.0	114.2	-43.0	-46.2
464	19.0	26.1	33.0	25.9	-14.0	-73.7
465	169.0	140.4	111.0	139.6	58.0	34.3
466	41.0	42.1	43.0	41.9	-2.0	-4.9
467	68.0	57.7	47.0	57.3	21.0	30.9
468	79.0	96.3	113.0	95.7	-34.0	-43.0
469	48.0	52.7	57.0	52.3	-9.0	-18.7

470	43.0	48.6	54.0	48.4	-11.0	-25.6
471	24.0	27.6	31.0	27.4	-7.0	-29.2
472	40.0	43.1	46.0	42.9	-6.0	-15.0
473	31.0	26.1	21.0	25.9	10.0	32.3
474	56.0	52.7	49.0	52.3	7.0	12.5
475	33.0	36.6	40.0	36.4	-7.0	-21.2
476	88.0	80.2	72.0	79.8	16.0	18.2
477	42.0	31.6	21.0	31.4	21.0	50.0
478	34.0	26.6	19.0	26.4	15.0	44.1
479	340.0	282.3	223.0	280.7	117.0	34.4
480	136.0	161.5	186.0	160.5	-50.0	-36.8
481	112.0	79.7	47.0	79.3	65.0	58.0
482	56.0	60.2	64.0	59.8	-8.0	-14.3
483	28.0	25.1	22.0	24.9	6.0	21.4
484	35.0	33.1	31.0	32.9	4.0	11.4
485	1024.0	1133.4	1236.0	1126.6	-212.0	-20.7
486	152.0	168.5	184.0	167.5	-32.0	-21.1
487	104.0	130.4	156.0	129.6	-52.0	-50.0
488	2303.0	2605.7	2893.0	2590.3	-590.0	-25.6
489	331.0	266.8	201.0	265.2	130.0	39.3
490	58.0	51.2	44.0	50.8	14.0	24.1
491	135.0	137.9	140.0	137.1	-5.0	-3.7
492	1240.0	849.5	454.0	844.5	786.0	63.4
493	168.0	134.4	100.0	133.6	68.0	40.5
494	48.0	46.1	44.0	45.9	4.0	8.3
495	84.0	61.2	38.0	60.8	46.0	54.8
496	25.0	25.6	26.0	25.4	-1.0	-4.0
497	24.0	27.1	30.0	26.9	-6.0	-25.0
498	76.0	92.8	109.0	92.2	-33.0	-43.4
499	25.0	27.6	30.0	27.4	-5.0	-20.0
500	103.0	98.8	94.0	98.2	9.0	8.7
501	24.0	30.1	36.0	29.9	-12.0	-50.0
502	22.0	24.6	27.0	24.4	-5.0	-22.7
503	78.0	68.2	58.0	67.8	20.0	25.6
504	261.0	234.7	207.0	233.3	54.0	20.7
505	55.0	65.7	76.0	65.3	-21.0	-38.2
506	72.0	92.8	113.0	92.2	-41.0	-56.9
507	23.0	30.6	38.0	30.4	-15.0	-65.2
508	23.0	30.6	38.0	30.4	-15.0	-65.2
509	315.0	395.2	473.0	392.8	-158.0	-50.2
510	79.0	83.7	88.0	83.3	-9.0	-11.4
511	65.0	70.7	76.0	70.3	-11.0	-16.9
512	70.0	55.2	40.0	54.8	30.0	42.9
513	31.0	29.1	27.0	28.9	4.0	12.9
514	49.0	35.6	22.0	35.4	27.0	55.1
515	28.0	32.1	36.0	31.9	-8.0	-28.6
516	49.0	66.7	84.0	66.3	-35.0	-71.4
517	31.0	22.6	14.0	22.4	17.0	54.8
518	40.0	33.1	26.0	32.9	14.0	35.0
519	726.0	716.6	703.0	712.4	23.0	3.2
520	312.0	289.4	265.0	287.6	47.0	15.1
521	56.0	54.7	53.0	54.3	3.0	5.4
522	154.0	188.1	221.0	186.9	-67.0	-43.5
523	24.0	26.1	28.0	25.9	-4.0	-16.7
524	27.0	27.1	27.0	26.9	0.0	0.0
525	2970.0	2938.7	2890.0	2921.3	80.0	2.7
526	330.0	401.2	470.0	398.8	-140.0	-42.4
527	318.0	415.7	511.0	413.3	-193.0	-60.7
528	88.0	99.3	110.0	98.7	-22.0	-25.0
529	88.0	115.8	143.0	115.2	-55.0	-62.5
530	89.0	75.2	61.0	74.8	28.0	31.5

531	31.0	28.1	25.0	27.9	6.0	19.4
532	50.0	51.7	53.0	51.3	-3.0	-6.0
533	38.0	40.1	42.0	39.9	-4.0	-10.5
534	112.0	97.8	83.0	97.2	29.0	25.9
535	28.0	27.1	26.0	26.9	2.0	7.1
536	32.0	26.1	20.0	25.9	12.0	37.5
537	32.0	25.1	18.0	24.9	14.0	43.8
538	32.0	27.1	22.0	26.9	10.0	31.3
539	20.0	23.1	26.0	22.9	-6.0	-30.0
540	16.0	20.6	25.0	20.4	-9.0	-56.3
541	32.0	30.1	28.0	29.9	4.0	12.5
542	60.0	73.2	86.0	72.8	-26.0	-43.3
543	168.0	122.9	77.0	122.1	91.0	54.2
544	68.0	67.7	67.0	67.3	1.0	1.5
545	30.0	41.1	52.0	40.9	-22.0	-73.3
546	65.0	59.7	54.0	59.3	11.0	16.9
547	111.0	98.3	85.0	97.7	26.0	23.4
548	48.0	37.1	26.0	36.9	22.0	45.8
549	90.0	94.3	98.0	93.7	-8.0	-8.9
550	31.0	27.1	23.0	26.9	8.0	25.8
551	36.0	32.1	28.0	31.9	8.0	22.2
552	31.0	31.6	32.0	31.4	-1.0	-3.2
553	28.0	22.1	16.0	21.9	12.0	42.9
554	132.0	106.3	80.0	105.7	52.0	39.4
555	36.0	24.1	12.0	23.9	24.0	66.7
556	154.0	115.3	76.0	114.7	78.0	50.6
557	24.0	25.1	26.0	24.9	-2.0	-8.3
558	24.0	26.6	29.0	26.4	-5.0	-20.8
559	292.0	308.4	323.0	306.6	-31.0	-10.6
560	60.0	63.2	66.0	62.8	-6.0	-10.0
561	200.0	226.2	251.0	224.8	-51.0	-25.5
562	36.0	36.6	37.0	36.4	-1.0	-2.8
563	48.0	49.1	50.0	48.9	-2.0	-4.2

AVERAGE DIFFERENCE IN OBS. FREQ. = 23.4
 AVERAGE PERCENTAGE DIFFERENCE = 29.3
 ROOT MEAN SQUARE ERROR = 60.76
 T-VALUE FOR PAIRED COMPARISON = .19

RAW CHI-SQUARE = 2904.662 WITH 562 DEGREES OF FREEDOM

T-VALUE = 42.708

APPENDIX J
GLATDS Traffic Zone Maps

APPENDIX J

GREATER LAFAYETTE AREA TRANSPORTATION & DEVELOPMENT STUDY

RURAL TRAFFIC ZONES & CORDON LINE

- - - - CORDON LINE
 ——— TRAFFIC ZONE BOUNDARIES
 === MAJOR STREETS & HIGHWAYS
 26 TRAFFIC ZONE NUMBER

APPENDIX J

APPENDIX K

GLATDS First Work Trip Tables

Appendix K. GLATDS First Work Trip Table

ZONE	TABLE 1 WORK TRIPS FROM ZONE 0 TO ALL OTHER ZONES (TOTAL=)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 1 TO ALL OTHER ZONES (TOTAL=)									
	00	01	02	03	04	05	06	07	08	09
0	0	16	27	19	27	0	0	9	9	0
10	0	7	8	0	10	0	0	8	8	0
20	9	8	8	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	9	19	0	0
50	0	0	17	0	2	0	0	0	0	0
60	9	0	0	8	0	0	0	9	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	16	0	0	0	0	0	3	61
120	0	2	0	0	0	0	16	0	0	19
130	0	0	0	0	19	0	0	0	0	0
140	0	0	6	0	12	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				2 TO ALL OTHER ZONES (TOTAL= 656)					
	00	01	02	03	04	05	06	07	08	09
0	0	90	48	9	72	0	17	16	24	0
10	15	10	16	8	0	0	0	8	0	0
20	8	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	16	0	0
50	0	0	8	0	0	0	0	0	16	0
60	58	0	0	0	0	0	0	0	0	0
70	0	0	8	0	0	0	0	17	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	0	0	16	64
120	24	0	0	0	0	0	56	0	0	8
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	8
150	8	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				3 TO ALL OTHER ZONES (TOTAL= 242)					
	00	01	02	03	04	05	06	07	08	09
0	0	0	24	8	16	0	0	16	0	0
10	0	0	0	0	0	0	0	16	8	0
20	0	0	0	0	0	0	0	0	0	0
30	0	10	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	8	8	0
50	0	0	0	0	0	0	0	0	8	0
60	0	0	0	0	0	0	0	8	0	0
70	0	0	16	0	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	24
120	8	0	0	0	0	0	8	0	8	8
130	0	0	0	0	16	8	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				4 TO ALL OTHER ZONES (TOTAL= 922)					
	00	01	02	03	04	05	06	07	08	09
0	27	35	61	27	234	0	9	0	8	0
10	0	8	0	27	18	0	9	0	0	0
20	9	0	0	0	0	9	0	0	0	0
30	9	0	0	0	0	0	0	6	0	0
40	0	0	0	0	0	9	9	0	0	8
50	0	0	0	0	9	0	0	0	18	0
60	0	0	81	0	0	0	0	42	0	0
70	0	0	0	0	0	0	0	9	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	18	0	18	9	0	0	9	63
120	27	0	0	0	9	0	9	0	9	0
130	0	0	0	0	9	0	9	0	0	0
140	0	0	17	0	0	0	0	0	0	0
150	0	27	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 5 TO ALL OTHER ZONES (TOTAL= 801)									
	00	01	02	03	04	05	06	07	08	09
0	0	32	8	40	192	8	8	0	0	0
10	0	8	56	48	24	8	0	16	8	16
20	0	0	0	0	0	8	0	0	8	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	8	0	0	0	0	0	0	8	0
60	0	0	48	0	0	0	8	8	0	0
70	0	0	0	8	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	16	0	8	0	0	0	0	0
120	16	0	0	0	0	0	24	8	0	41
130	0	0	0	0	8	0	16	0	0	0
140	0	0	48	0	0	0	0	0	0	0
150	8	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 6 TO ALL OTHER ZONES (TOTAL= 42)									
	00	01	02	03	04	05	06	07	08	09
0	0	9	0	0	0	0	0	0	0	0
10	0	0	0	8	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	17	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	8	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 7 TO ALL OTHER ZONES (TOTAL= 577)									
	00	01	02	03	04	05	06	07	08	09
0	16	32	40	0	0	8	8	16	24	0
10	8	16	24	0	0	0	0	8	0	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	8	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	40	0	0	0	0	0	16	0
60	0	0	8	0	0	0	16	25	0	0
70	0	0	0	0	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	8	0	0	0	32	72
120	8	8	0	0	0	0	40	0	8	8
130	0	0	0	0	8	0	8	0	0	0
140	0	0	8	0	0	0	0	8	0	0
150	8	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				8 TO ALL OTHER ZONES				(TOTAL= 873)	
	00	01	02	03	04	05	06	07	08	09
0	16	22	48	0	16	0	8	48	40	0
10	120	112	32	8	0	8	0	0	8	0
20	8	0	0	0	0	0	0	0	0	0
30	8	0	0	8	0	0	8	0	0	0
40	0	0	0	0	0	0	0	8	0	0
50	8	0	0	0	0	0	0	0	0	0
60	40	0	96	0	0	0	16	0	16	0
70	0	0	0	0	8	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	0	0	8	49
120	8	0	0	0	0	0	24	0	0	0
130	0	0	0	0	0	0	0	8	0	0
140	0	0	8	0	8	0	0	8	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				9 TO ALL OTHER ZONES				(TOTAL= 560)	
	00	01	02	03	04	05	06	07	08	09
0	0	22	24	8	24	0	16	8	0	0
10	88	24	48	8	8	0	0	8	8	0
20	0	8	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	8	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	8	0	0	0	0	0	24	0
60	16	0	32	0	0	8	8	48	0	0
70	0	0	0	0	0	0	0	8	0	16
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	8	0	0	0	8	0
120	8	0	0	0	0	0	0	0	0	0
130	0	0	8	0	8	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				10 TO ALL OTHER ZONES				(TOTAL= 663)	
	00	01	02	03	04	05	06	07	08	09
0	10	70	8	10	30	0	8	10	0	0
10	150	50	20	10	30	0	0	0	0	0
20	0	20	10	0	0	0	0	0	10	10
30	0	0	0	0	0	0	0	0	0	0
40	0	10	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	10
60	0	0	58	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	10	10	0	0	0	0	9	50
120	10	0	0	0	10	0	0	0	20	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	11	TO ALL	OTHER	ZONES	(TOTAL=	519)
00	01	02	03	04	05	06	07	08	09
0	0	32	8	0	0	32	0	0	0
10	48	40	84	8	16	0	0	0	0
20	0	0	0	0	0	16	0	0	0
30	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	16	0	0
50	24	9	8	0	0	0	0	0	0
60	0	0	65	0	0	8	0	8	0
70	0	0	0	0	0	0	0	0	8
80	0	0	0	0	0	0	0	0	0
110	0	0	8	0	0	0	0	8	9
120	24	0	0	8	0	0	24	0	0
130	0	0	0	0	0	0	0	0	0
140	0	0	0	0	8	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	12	TO ALL	OTHER	ZONES	(TOTAL=	515)
00	01	02	03	04	05	06	07	08	09
0	0	23	45	9	9	0	9	0	0
10	18	36	54	0	0	0	0	9	0
20	0	9	9	0	0	0	0	0	8
30	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
50	0	0	9	0	0	0	0	28	0
60	8	0	53	0	0	18	26	0	0
70	0	0	0	0	0	0	9	0	0
80	0	0	3	0	0	0	0	0	0
110	0	0	9	0	0	0	0	0	35
120	7	9	0	0	0	0	0	17	0
130	0	0	0	0	0	0	9	0	0
140	0	0	17	0	0	0	0	0	0
150	9	0	0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	13	TO ALL	OTHER	ZONES	(TOTAL=	807)
00	01	02	03	04	05	06	07	08	09
0	0	9	27	18	72	8	18	0	0
10	36	45	27	81	18	0	0	9	180
20	18	0	0	9	0	9	0	0	0
30	0	0	0	0	0	0	0	8	0
40	0	0	0	0	0	0	0	18	0
50	9	0	0	0	0	0	0	0	0
60	0	0	63	0	0	0	9	0	0
70	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
110	0	0	9	0	0	0	0	9	18
120	0	9	0	9	0	0	0	0	0
130	18	0	0	0	18	0	18	0	0
140	0	0	0	0	0	0	0	0	0
150	8	0	0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK 01	TRIPS FROM 02	ZONE 03	14 04	TO ALL 05	OTHER 06	ZONES 07	(TOTAL= 08	122) 09
0	0	0	0	0	0	0	0	0	0	0
10	0	8	9	8	22	0	0	0	0	0
20	30	0	0	16	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	7	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	8	0	0	0	6	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK 01	TRIPS FROM 02	ZONE 03	15 04	TO ALL 05	OTHER 06	ZONES 07	(TOTAL= 08	209) 09
0	0	24	16	0	8	0	8	0	0	0
10	0	8	16	0	8	0	0	0	0	0
20	24	24	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	24	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	16
120	8	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	8	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK 01	TRIPS FROM 02	ZONE 03	16 04	TO ALL 05	OTHER 06	ZONES 07	(TOTAL= 08	653) 09
0	0	46	40	0	24	0	8	8	0	0
10	0	45	16	8	16	0	8	8	8	8
20	0	32	0	0	0	32	0	0	8	0
30	8	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	0	0	0
50	0	0	16	0	0	0	0	0	24	0
60	30	0	56	0	0	0	24	0	0	0
70	0	0	0	0	0	0	0	0	0	8
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	8	8	0	8	0	40
120	8	0	8	0	8	0	8	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				17 TO ALL OTHER ZONES (TOTAL=				16)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	8	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				18 TO ALL OTHER ZONES (TOTAL=				136)	
	00	01	02	03	04	05	06	07	08	09
0	6	6	0	0	18	0	0	0	0	0
10	0	0	6	0	0	0	0	0	6	6
20	0	0	0	0	0	0	8	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	6	0	0	0
70	0	0	0	8	0	0	0	6	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	12
120	0	0	0	0	6	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	6	0	0	0	0	0	0	30
150	0	0	6	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				19 TO ALL OTHER ZONES (TOTAL=				448)	
	00	01	02	03	04	05	06	07	08	09
0	8	0	8	0	8	0	8	0	0	0
10	0	0	16	0	32	0	0	8	0	96
20	8	8	16	8	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	8	0	0	0	0	0	0	0	0	0
60	16	0	32	8	0	0	8	16	0	0
70	0	0	0	8	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	8	8	0	0	24
120	0	0	0	0	0	0	24	0	8	0
130	0	0	0	0	0	0	16	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 20 TO ALL OTHER ZONES (TOTAL= 810)									
	00	01	02	03	04	05	06	07	08	09
0	0	69	36	0	43	0	27	0	0	0
10	0	45	18	62	9	0	0	0	0	54
20	54	0	27	9	9	0	0	0	9	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	9	0
60	91	0	45	0	0	0	17	9	0	0
70	0	0	0	0	0	0	0	16	0	9
80	0	0	0	18	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	27	18
120	9	0	9	0	0	0	17	0	0	0
130	0	0	0	0	9	0	0	0	9	0
140	0	0	0	0	9	0	0	0	0	9
150	0	0	9	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 21 TO ALL OTHER ZONES (TOTAL= 1074)									
	00	01	02	03	04	05	06	07	08	09
0	0	64	56	8	0	0	24	8	0	0
10	8	88	16	8	56	0	0	8	0	8
20	48	248	24	0	0	8	0	16	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	9	0	0
50	0	0	0	0	0	0	0	0	91	0
60	40	0	56	0	0	8	16	48	0	0
70	0	0	0	0	0	0	0	24	0	8
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	0	0	8	8
120	0	0	0	0	8	0	33	0	0	0
130	0	0	0	0	16	0	8	0	0	0
140	0	0	16	0	0	8	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 22 TO ALL OTHER ZONES (TOTAL= 113)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	9	0	0	0
10	0	18	0	0	8	0	0	0	0	0
20	0	0	25	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	9	0
60	0	0	9	0	0	0	8	0	0	0
70	0	0	0	0	0	0	0	9	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	9	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	9	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 23 TO ALL OTHER ZONES (TOTAL = 605)									
	00	01	02	03	04	05	06	07	08	09
0	0	18	9	0	9	0	27	9	0	0
10	0	97	18	9	18	0	0	0	0	0
20	9	9	18	0	117	9	0	0	0	0
30	8	8	0	0	0	0	8	9	17	0
40	0	0	0	0	0	0	0	0	0	9
50	0	0	0	0	0	0	0	0	5	0
60	0	0	27	0	0	0	0	27	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	9	0	0	0	0	0	9	26
100	0	0	0	0	0	0	0	0	9	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	9	0	0	0	0	0	0	9
130	0	0	0	0	0	0	0	0	0	0
140	0	0	9	0	0	0	0	0	0	9
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 24 TO ALL OTHER ZONES (TOTAL = 809)									
	00	01	02	03	04	05	06	07	08	09
0	0	48	16	0	16	0	16	0	0	0
10	16	48	8	8	48	0	0	0	0	0
20	32	0	32	8	192	8	0	0	0	0
30	0	0	8	0	0	0	0	0	8	0
40	0	0	0	0	0	0	0	8	0	0
50	0	0	16	0	0	0	0	0	16	0
60	16	8	32	8	0	0	24	16	0	0
70	0	0	0	0	0	8	0	16	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	8	9	0	0	0	16	16
100	24	0	0	0	16	0	8	0	0	0
110	0	0	0	0	8	8	0	0	0	0
120	0	0	0	0	16	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	16	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 25 TO ALL OTHER ZONES (TOTAL = 56)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	16	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	8	0	0	0	8	0	8	0	8	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				26 TO ALL OTHER ZONES				(TOTAL= 64)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	28	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	28
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	8	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				27 TO ALL OTHER ZONES				(TOTAL= 0)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				28 TO ALL OTHER ZONES				(TOTAL= 386)	
	00	01	02	03	04	05	06	07	08	09
0	0	18	0	0	0	0	9	0	0	0
10	0	45	90	0	0	0	0	0	0	0
20	0	0	0	0	0	9	0	18	0	27
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	9	0	0	0
50	0	0	9	0	0	0	0	0	9	0
60	0	9	36	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	9
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	9	0	0	0	9	44
120	9	0	0	0	0	9	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	9	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK TRIPS FROM 01	ZONE 02	03	29 04	TO ALL OTHER ZONES 05	06	07	(TOTAL= 1141) 08	09
0	35	36	18	9	63	9	0	9	0	0
10	0	36	396	17	0	0	9	27	0	9
20	36	0	0	9	0	26	0	9	0	0
30	0	0	0	0	0	0	9	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	36	0	0	0	0	0	9	0
60	0	0	90	9	0	9	27	54	0	0
70	0	0	0	0	0	0	0	27	0	18
80	0	0	0	0	0	0	0	0	0	0
110	0	0	9	0	0	18	0	0	0	9
120	9	9	0	0	19	0	9	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	18	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK TRIPS FROM 01	ZONE 02	03	30 04	TO ALL OTHER ZONES 05	06	07	(TOTAL= 900) 08	09
0	9	36	9	9	9	0	9	0	0	0
10	0	0	36	9	9	0	0	0	18	0
20	0	9	0	18	0	45	0	0	0	0
30	9	45	0	18	0	0	0	0	9	0
40	0	9	0	0	0	0	0	0	0	0
50	0	0	9	0	0	0	0	0	0	0
60	9	0	0	0	0	9	9	0	0	0
70	0	0	0	0	0	0	0	9	0	18
80	0	0	0	9	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	9
120	18	18	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	9	0	0	18	0	0	0	0
150	9	0	27	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK TRIPS FROM 01	ZONE 02	03	31 04	TO ALL OTHER ZONES 05	06	07	(TOTAL= 705) 08	09
0	0	48	0	8	8	0	8	0	8	0
10	0	8	24	8	0	0	0	0	8	0
20	40	0	16	0	0	8	0	0	0	0
30	8	24	0	8	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	8	0	0	0	0	0	24	0
60	8	0	0	0	0	0	32	0	0	0
70	0	0	0	0	0	0	0	16	0	0
80	0	0	0	0	0	0	0	0	0	8
110	0	0	8	0	0	0	0	0	8	24
120	0	0	0	0	0	8	8	0	8	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	40	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 32 TO ALL OTHER ZONES (TOTAL= 544)									
	00	01	02	03	04	05	06	07	08	09
0	0	48	24	0	24	0	0	24	0	0
10	0	0	56	0	0	0	0	0	0	0
20	0	0	0	0	0	8	0	0	0	8
30	0	88	16	0	0	8	0	0	0	0
40	0	0	0	0	0	0	0	8	0	0
50	0	0	0	0	8	0	0	0	8	0
60	0	0	40	0	0	0	24	8	0	0
70	8	8	0	8	0	8	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	8	0	0	0	0	0	8
120	24	0	0	0	0	0	8	0	0	0
130	0	0	0	0	8	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	8
150	0	0	24	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 46 TO ALL OTHER ZONES (TOTAL= 331)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	40	0	24	0	8	0
10	0	8	8	8	0	0	0	0	0	0
20	0	0	0	0	0	8	0	8	0	0
30	0	0	0	0	0	0	0	11	0	0
40	0	0	0	0	0	0	0	168	0	0
50	0	0	8	0	0	0	0	0	8	0
60	0	0	8	0	0	0	0	0	0	0
70	0	0	8	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	8	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 47 TO ALL OTHER ZONES (TOTAL= 634)									
	00	01	02	03	04	05	06	07	08	09
0	0	44	18	0	63	0	17	0	0	0
10	0	0	0	9	0	0	0	9	9	0
20	0	0	0	0	0	18	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	18	162	9	0
50	0	0	0	0	0	9	0	0	36	0
60	0	0	18	0	0	0	18	18	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	18	0	0	0	0	0	0
110	0	0	9	0	0	0	0	0	17	18
120	26	0	0	0	9	0	9	0	8	9
130	0	0	0	0	9	8	0	0	0	0
140	0	0	0	0	9	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				48 TO ALL OTHER ZONES (TOTAL= 457)					
	00	01	02	03	04	05	06	07	08	09
0	10	28	60	0	20	0	20	0	10	0
10	0	10	0	0	0	0	0	10	0	10
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	10	0	80	9	0	0	10	0
60	20	0	10	0	0	0	10	0	0	0
70	0	0	0	0	0	0	0	10	0	0
80	0	0	0	0	0	0	0	0	0	10
110	0	0	20	0	10	0	0	0	10	30
120	10	0	0	0	0	0	10	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				49 TO ALL OTHER ZONES (TOTAL= 388)					
	00	01	02	03	04	05	06	07	08	09
0	0	22	16	0	8	0	0	8	8	0
10	0	24	0	0	16	0	0	0	12	8
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	16	0	0
50	48	0	0	0	0	0	0	8	0	0
60	8	8	40	8	0	8	8	8	0	0
70	8	0	0	0	0	0	0	8	0	16
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	0	0	8	8
120	0	0	0	0	0	0	8	0	8	0
130	0	0	0	0	0	0	0	8	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				50 TO ALL OTHER ZONES (TOTAL= 498)					
	00	01	02	03	04	05	06	07	08	09
0	9	26	18	9	0	0	0	26	0	0
10	0	26	8	9	0	0	0	0	9	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	9	0
50	133	0	0	0	0	0	0	0	0	0
60	0	0	90	0	0	0	9	18	0	0
70	0	0	0	0	9	0	0	0	0	18
80	0	0	0	0	0	0	0	0	0	0
110	0	0	18	0	0	0	0	0	0	0
120	0	0	0	0	9	0	9	0	0	0
130	0	0	0	0	9	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	51	TO	ALL	OTHER	ZONES	(TOTAL=	480)
00	01	02	03	04	05	06	07	08	09	
0	0	24	8	8	0	0	16	0	8	0
10	0	8	16	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	8	8
50	104	0	8	0	0	0	0	0	16	0
60	0	0	64	0	0	0	24	16	0	0
70	0	0	0	0	0	8	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	8	0	0	0	0	0	8	16
100	24	0	0	0	16	0	16	0	0	0
110	0	0	0	0	8	0	8	0	0	8
120	0	0	24	0	0	0	0	0	0	0
130	0	0	0	-0	-0	-0	-0	-0	-0	-0
140	0	0	0	-0	-0	-0	-0	-0	-0	-0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	52	TO	ALL	OTHER	ZONES	(TOTAL=	47)
00	01	02	03	04	05	06	07	08	09	
0	0	7	0	0	10	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	8	0	0
50	0	0	0	0	0	0	8	0	0	0
60	0	0	7	0	0	0	7	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1	WORK	TRIPS FROM	ZONE	53	TO	ALL	OTHER	ZONES	(TOTAL=	367)
00	01	02	03	04	05	06	07	08	09	
0	0	0	24	0	56	0	8	0	7	0
10	0	0	0	0	0	0	0	8	0	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	48	0	0
50	0	0	0	0	8	0	0	0	56	0
60	0	0	32	0	0	0	8	8	0	0
70	0	0	8	0	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	8	24
110	0	0	0	0	8	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	15	0	0	0	0	8	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 54 TO ALL OTHER ZONES (TOTAL= 379)									
	00	01	02	03	04	05	06	07	08	09
0	0	40	32	0	8	0	8	0	0	0
10	0	8	33	8	0	0	0	0	0	0
20	0	0	0	8	8	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	16	0	0
50	8	0	0	0	24	0	0	0	8	0
60	8	0	41	0	0	8	0	8	0	0
70	0	0	0	0	0	0	0	0	0	16
80	0	0	0	0	0	0	0	0	0	0
110	0	0	16	0	0	0	0	0	0	32
120	8	0	0	0	0	0	9	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 55 TO ALL OTHER ZONES (TOTAL= 784)									
	00	01	02	03	04	05	06	07	08	09
0	8	44	80	8	24	0	16	0	16	0
10	0	16	8	0	0	0	0	8	8	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	24	0	104	0	0	0	0	0
60	0	0	192	0	0	0	8	32	0	0
70	0	0	0	0	0	0	8	0	0	8
80	0	8	0	0	0	0	0	0	0	0
110	0	0	24	0	8	0	0	0	0	40
120	8	0	0	0	8	0	0	0	0	0
130	0	0	8	0	8	0	8	8	0	0
140	0	0	0	8	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 56 TO ALL OTHER ZONES (TOTAL= 872)									
	00	01	02	03	04	05	06	07	08	09
0	0	8	24	8	0	0	8	16	0	0
10	8	8	16	16	0	0	0	0	16	0
20	0	0	0	0	0	24	8	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	8	0	0
50	40	0	0	16	0	0	8	0	32	0
60	24	0	328	0	0	8	40	16	0	0
70	0	0	0	0	0	0	0	8	0	32
80	0	0	0	0	0	0	0	0	0	0
110	0	0	16	0	0	8	0	0	0	24
120	8	8	0	0	8	0	40	8	0	0
130	0	0	0	0	8	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				57 TO ALL OTHER ZONES				(TOTAL = 736)	
	00	01	02	03	04	05	06	07	08	09
0	0	32	16	8	0	0	8	0	14	0
10	8	40	48	0	16	0	0	0	14	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	88	0	8	0	0	0	0	0	14	0
60	8	0	168	8	0	8	16	24	0	0
70	0	0	0	0	0	0	0	16	0	24
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	0	0	0	0	14	24
120	16	0	0	0	0	0	24	0	0	0
130	0	0	0	0	8	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				58 TO ALL OTHER ZONES				(TOTAL = 234)	
	00	01	02	03	04	05	06	07	08	09
0	0	17	9	0	0	0	0	0	0	0
10	0	8	27	0	9	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	16	0	0	0	0	0	0	0
60	0	9	8	8	0	8	0	17	0	0
70	0	0	0	0	0	0	0	16	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	7
120	9	0	0	0	9	0	18	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	25	0	7	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				59 TO ALL OTHER ZONES				(TOTAL = 126)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	20	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	18	0	0	0
50	0	0	10	0	0	0	0	0	0	0
60	0	0	0	10	0	0	0	0	0	0
70	0	0	30	0	0	0	0	0	0	0
80	8	0	0	0	0	0	0	20	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	10	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 60 TO ALL OTHER ZONES (TOTAL= 329)									
	00	01	02	03	04	05	06	07	08	09
0	10	10	10	0	0	0	0	0	0	0
10	0	10	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	90	0	100	0	0	10	0	0	60	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	10	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	9	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 61 TO ALL OTHER ZONES (TOTAL= 1485)									
	00	01	02	03	04	05	06	07	08	09
0	0	72	24	8	0	8	32	24	16	0
10	0	16	32	8	16	0	16	0	16	0
20	8	0	0	8	0	24	0	0	0	0
30	0	0	0	0	0	0	8	0	0	0
40	0	0	0	0	0	0	0	16	0	0
50	0	0	16	0	0	0	0	0	24	0
60	16	24	360	0	10	16	73	24	289	0
70	8	9	16	0	0	8	8	17	0	32
80	8	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	8	0	16	32
120	32	0	0	0	16	0	29	0	0	0
130	0	0	0	0	0	0	8	8	0	0
140	0	0	0	0	0	8	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 62 TO ALL OTHER ZONES (TOTAL= 202)									
	00	01	02	03	04	05	06	07	08	09
0	0	16	0	8	0	0	8	7	9	0
10	0	18	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	8	8	8	0	0	0	8	0	16	0
60	7	0	17	0	0	18	0	8	8	0
70	0	0	0	8	0	0	0	0	0	0
80	8	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	7
120	0	0	0	7	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 63 TO ALL OTHER ZONES (TOTAL= 73)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	13	0	0	0	0	13	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	26	0	0	0	0	8	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	13	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 64 TO ALL OTHER ZONES (TOTAL= 1784)									
	00	01	02	03	04	05	06	07	08	09
0	0	64	48	8	0	0	0	8	8	0
10	0	40	16	24	8	0	0	8	8	0
20	0	0	0	0	0	16	0	8	0	0
30	0	0	0	0	0	0	8	16	0	0
40	0	0	0	0	0	0	0	16	0	0
50	0	16	48	0	0	0	0	0	32	0
60	16	8	408	8	24	8	48	8	528	0
70	0	0	0	0	8	8	0	15	8	32
80	0	0	0	0	0	0	0	0	0	0
110	0	0	16	0	40	0	0	8	16	32
120	16	16	0	0	16	0	16	0	8	0
130	0	8	8	0	0	0	0	0	0	0
140	0	0	40	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 65 TO ALL OTHER ZONES (TOTAL= 102)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	18	0	0	0	0	0	0	0
20	0	0	0	8	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	24	8	0	0	0	12	0	0
70	0	0	8	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	8	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				66 TO ALL OTHER ZONES				(TOTAL= 31)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	8	0	7	0	0	0	8	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	8	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				67 TO ALL OTHER ZONES				(TOTAL= 56)	
	00	01	02	03	04	05	06	07	08	09
0	0	8	8	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	16	0	8	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	8	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				68 TO ALL OTHER ZONES				(TOTAL= 2244)	
	00	01	02	03	04	05	06	07	08	09
0	8	24	64	8	8	0	64	24	8	0
10	0	48	72	40	24	0	0	0	16	8
20	8	16	16	0	0	16	8	9	0	8
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	32	0	0
50	0	0	8	0	0	0	0	16	24	8
60	24	0	456	24	0	40	96	48	616	0
70	0	0	0	0	0	24	0	56	0	64
80	0	0	0	0	0	0	0	0	0	0
90	0	0	16	0	8	8	0	0	32	24
100	32	0	0	0	8	0	32	0	8	0
110	0	0	0	0	0	8	0	16	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	16	0	0	0	0	0	0	0
140	0	0	8	-0	-0	-0	-0	-0	-0	-0
150	0	0	8	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 70 TO ALL OTHER ZONES (TOTAL = 254)

ZONE	00	01	02	03	04	05	06	07	08	09
0	0	20	0	0	20	0	0	0	0	0
10	0	0	110	0	0	0	0	0	0	0
20	0	10	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	10	10	0
50	0	0	10	0	0	0	0	0	10	0
60	0	0	20	0	0	0	0	0	0	0
70	0	0	0	0	0	10	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	20	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 71 TO ALL OTHER ZONES (TOTAL = 663)

ZONE	00	01	02	03	04	05	06	07	08	09
0	0	9	9	0	0	0	0	0	0	0
10	0	0	9	0	0	0	0	9	18	0
20	0	0	9	0	0	9	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	18	0	0	0
50	0	0	9	0	0	0	0	0	27	0
60	9	0	0	9	0	0	9	18	0	0
70	0	233	9	0	0	0	0	36	0	36
80	0	0	0	0	0	0	0	0	0	124
90	0	0	0	0	0	0	0	0	0	27
100	0	0	0	0	0	0	0	0	0	0
110	9	0	0	0	0	0	18	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 72 TO ALL OTHER ZONES (TOTAL = 314)

ZONE	00	01	02	03	04	05	06	07	08	09
0	0	7	21	7	7	0	7	0	0	0
10	0	0	14	0	7	0	0	0	14	0
20	0	0	0	0	0	0	0	0	0	0
30	7	0	0	0	0	0	0	0	0	7
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	7	0
60	0	0	0	8	0	7	7	0	0	0
70	0	0	63	8	0	0	0	0	0	14
80	7	0	0	0	0	0	0	58	0	0
90	0	0	0	0	0	0	0	0	8	7
100	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	7	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	7	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 73 TO ALL OTHER ZONES (TOTAL= 656)									
	00	01	02	03	04	05	06	07	08	09
0	0	32	8	0	0	0	24	0	8	0
10	0	8	24	0	16	0	0	0	0	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	24	8	0	0
50	0	0	0	0	0	0	0	0	16	0
60	0	8	16	0	0	24	8	16	8	0
70	0	0	72	0	0	0	0	8	8	0
80	32	0	0	40	0	0	0	104	0	0
110	0	0	0	0	0	0	0	0	32	48
120	8	0	0	0	0	0	16	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	16	0	8	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 74 TO ALL OTHER ZONES (TOTAL= 544)									
	00	01	02	03	04	05	06	07	08	09
0	8	32	16	8	32	0	0	0	0	0
10	0	0	48	0	0	0	0	0	0	0
20	0	0	0	0	0	16	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	8	0	0	0	0	0	0	0	8	0
60	8	0	72	0	0	16	24	0	72	0
70	0	0	8	0	0	0	0	16	0	32
80	16	0	0	24	0	0	0	16	0	0
110	0	0	0	0	0	0	0	0	8	16
120	0	0	0	0	0	0	16	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 75 TO ALL OTHER ZONES (TOTAL= 108)									
	00	01	02	03	04	05	06	07	08	09
0	0	24	12	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	12	0
20	0	12	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	24	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	24	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 76 TO ALL OTHER ZONES (TOTAL= 84)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	7	0
60	0	0	0	0	0	0	7	0	0	0
70	0	7	0	0	0	0	0	0	0	7
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	28
120	14	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	7	0	0
140	0	0	7	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 77 TO ALL OTHER ZONES (TOTAL= 197)									
	00	01	02	03	04	05	06	07	08	09
0	0	8	0	0	0	0	0	0	0	0
10	0	0	0	8	11	0	0	0	11	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	22	11
60	0	0	0	0	0	9	9	11	0	0
70	0	11	0	0	0	0	9	0	0	11
80	0	0	0	11	0	0	0	0	0	0
110	0	0	0	0	11	0	0	0	0	0
120	0	0	0	0	11	0	22	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	11	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 78 TO ALL OTHER ZONES (TOTAL= 208)									
	00	01	02	03	04	05	06	07	08	09
0	0	8	0	0	0	0	0	0	0	0
10	0	0	16	8	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	8	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	8	0
60	0	0	0	0	0	8	0	9	0	0
70	0	96	0	0	0	8	0	8	0	0
80	0	0	0	0	0	0	0	0	0	8
110	0	0	0	0	0	0	0	0	0	8
120	0	0	0	0	0	0	16	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				TO ALL OTHER ZONES				(TOTAL= 3451)	
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	16	8	0	0	8	0	0	0
20	0	0	0	0	0	16	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	8	0	0	8	16	17	0
70	0	0	64	0	0	0	0	0	0	0
80	48	16	0	0	0	0	0	88	0	0
110	0	0	8	0	8	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	16	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				TO ALL OTHER ZONES				(TOTAL= 3571)	
	00	01	02	03	04	05	06	07	08	09
0	0	14	7	0	0	0	7	0	0	0
10	0	7	14	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	7	0	0
30	0	0	0	0	0	0	0	0	0	0
40	7	0	0	0	0	0	0	0	7	0
50	0	0	0	0	7	0	0	0	20	0
60	0	0	0	0	0	0	0	14	0	0
70	0	0	0	0	0	7	0	14	0	14
80	14	0	0	0	0	0	0	154	0	0
110	0	0	0	0	7	0	0	0	0	7
120	0	0	0	0	7	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	7	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				TO ALL OTHER ZONES				(TOTAL= 2701)	
	00	01	02	03	04	05	06	07	08	09
0	0	9	18	9	0	9	0	0	0	0
10	0	9	18	0	9	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	9	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	9	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	10
80	0	0	0	0	0	0	0	126	0	0
110	0	0	0	0	0	0	0	0	9	0
120	9	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	9	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				82 TO ALL OTHER ZONES				(TOTAL=	72)
	00	01	02	03	04	05	06	07	08	09
0	0	9	0	0	9	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	9	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	9	0	0	0	9	0	0	0	0
70	0	0	0	0	0	0	0	0	0	9
80	0	0	0	18	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				83 TO ALL OTHER ZONES				(TOTAL=	107)
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	16	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	40	0	0	0	0	0	27
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE				84 TO ALL OTHER ZONES				(TOTAL=	12)
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	6	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	6	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 112 TO ALL OTHER ZONES (TOTAL= 92)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	8	0	0	0	0	0	10	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	8	0	0	0	0
110	0	0	0	0	0	0	0	0	16	41
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	9	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1										
ZONE	00	01	TRIPS FROM	ZONE	113	TO ALL	OTHER	ZONES	(TOTAL=	906)
			02	03	04	05	06	07	08	09
0	0	8	24	0	8	0	0	0	0	0
10	0	0	8	8	0	0	0	0	0	0
20	0	0	0	0	0	16	8	0	0	0
30	0	8	0	0	0	0	16	0	8	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	8	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	8	8	15	8	0	64	200
120	176	16	0	0	0	0	72	0	0	0
130	0	0	0	0	15	16	0	0	0	0
140	0	0	0	0	0	0	0	0	0	48
150	0	0	8	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 114 TO ALL OTHER ZONES (TOTAL= 1488)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	0	0	0	16	0	8	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	8	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	7
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	8	0	0
110	0	0	0	0	80	16	8	0	142	617
120	265	16	0	0	0	8	192	0	8	0
130	0	0	0	8	8	0	0	8	0	0
140	0	0	25	0	8	0	0	0	0	0
150	0	0	8	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 115 TO ALL OTHER ZONES (TOTAL = 992)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	8	40	0	8	0	0	0	0	8	0
10	8	8	8	8	8	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	8	8	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	40	0	8	0	80	336
120	240	40	0	0	16	0	64	0	0	0
130	0	0	0	0	0	8	8	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	8	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 116 TO ALL OTHER ZONES (TOTAL= 651)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	7	21	0	0	0	0	0	0	0	0
10	0	0	7	7	0	0	0	0	0	0
20	0	0	0	0	0	7	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	14	0	0	0	0	0	7	0
60	0	0	0	7	0	7	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	43	0	70	0	30	133
120	86	77	0	0	14	0	56	14	7	0
130	0	7	0	0	9	14	0	0	0	0
140	0	0	7	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 117 TO ALL OTHER ZONES (TOTAL= 675)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	9	0	0	0	0	0	0	0	0	0
10	0	18	0	9	0	0	0	0	0	0
20	0	0	0	0	0	9	0	0	0	0
30	0	9	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	9	0	0	0
50	0	0	18	0	0	0	0	0	0	0
60	0	0	9	0	0	0	9	0	0	0
70	0	0	9	0	0	0	0	0	0	9
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	81	9	27	117
100	36	63	81	0	9	0	27	9	0	0
110	0	0	18	9	0	18	0	0	0	0
120	0	0	9	0	0	0	0	0	0	36
130	0	0	9	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 118 TO ALL OTHER ZONES (TOTAL = 1462)										
ZONE	00	01	02	03	04	05	06	07	08	09
00	0	25	8	0	0	0	0	0	0	0
10	0	8	0	8	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	8	0	8	0	0
70	0	0	0	0	0	0	0	0	0	17
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	47	0	0	0	88	670
120	295	0	0	0	0	0	232	0	0	0
130	0	0	0	8	0	0	0	8	0	0
140	0	0	8	0	8	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK 01	TRIPS FROM 02	ZONE 03	119 04	TO ALL OTHER ZONES 05	06	07	(TOTAL = 08	581) 09
0	0	16	0	0	8	0	0	0	8	0
10	0	0	7	7	9	0	0	0	0	0
20	6	0	0	0	0	9	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	7	0	0	0	0
60	0	0	0	0	0	0	0	8	8	0
70	0	0	8	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	120	8	9	0	0	0	40	0	0	0
130	0	0	0	15	0	0	0	0	0	0
140	0	0	15	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 00	WORK 01	TRIPS FROM 02	ZONE 03	120 04	TO ALL 05	OTHER ZONES 06	(TOTAL= 07	981 09
00	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0
20	7	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	7	0	16
110	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0
130	0	0	0	7	22	0	0	7	0
140	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 121 TO ALL OTHER ZONES (TOTAL= 535)									
	00	01	02	03	04	05	06	07	08	09
0	0	18	0	0	0	0	0	0	0	0
10	0	0	0	9	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	9	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	7	0	0	0	0	0	8	0
60	0	0	0	9	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	9	0	45	0	18	138
120	0	43	9	0	9	0	41	0	9	0
130	0	0	0	0	0	0	0	8	0	0
140	0	0	0	0	27	0	0	0	0	9
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 122 TO ALL OTHER ZONES (TOTAL= 445)									
	00	01	02	03	04	05	06	07	08	09
0	0	27	0	0	0	0	0	0	0	0
10	0	0	0	0	9	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	9	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	9	62	0	9	62
120	27	133	45	0	17	0	9	0	0	0
130	9	0	9	0	0	0	0	0	0	0
140	0	9	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 123 TO ALL OTHER ZONES (TOTAL= 575)									
	00	01	02	03	04	05	06	07	08	09
0	16	0	0	0	0	0	0	0	0	0
10	8	0	16	24	0	0	0	0	8	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	8	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	40	0	32	24
120	40	44	104	0	24	0	87	0	0	0
130	0	0	0	0	8	0	0	0	0	0
140	0	0	8	0	24	0	0	0	0	0
150	0	0	8	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 124 TO ALL OTHER ZONES (TOTAL= 72)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	17
120	23	0	16	0	8	0	0	0	0	0
130	0	0	0	0	0	0	0	8	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 125 TO ALL OTHER ZONES (TOTAL= 1064)									
	00	01	02	03	04	05	06	07	08	09
0	8	56	8	16	8	16	0	0	0	0
10	0	8	8	16	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	8	0	0	0	0	0	0	24	0
60	8	0	0	0	0	0	16	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	24	0	24	0	32	0	64	160
120	136	56	0	0	8	0	96	8	8	8
130	0	0	88	8	0	0	0	0	8	0
140	0	0	32	8	0	0	0	0	0	40
150	0	0	32	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 126 TO ALL OTHER ZONES (TOTAL= 84)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	8	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	7	0	0	0	7	0
120	24	0	0	0	0	0	8	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	7	0	0	0	0	7	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 127 TO ALL OTHER ZONES (TOTAL = 1352)									
	00	01	02	03	04	05	06	07	08	09
0	0	8	0	0	0	0	0	0	0	0
10	0	8	0	0	0	0	0	0	0	0
20	8	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	8	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	24	0	0	0	48	784
120	216	8	0	0	0	0	176	8	0	0
130	0	0	0	16	8	8	0	8	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 128 TO ALL OTHER ZONES (TOTAL = 2918)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	7	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	14	7	0	0	197	1521
120	772	7	0	0	0	7	254	0	0	0
130	0	0	0	8	21	49	0	14	0	0
140	0	0	10	0	14	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 129 TO ALL OTHER ZONES (TOTAL = 1624)									
	00	01	02	03	04	05	06	07	08	09
0	0	8	8	0	0	0	0	8	0	0
10	0	8	0	16	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	8	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	8	0
60	0	8	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	8
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	0	0	0	0	80	932
120	400	0	0	0	8	0	168	0	8	0
130	0	0	0	0	8	0	0	8	0	0
140	0	0	24	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 130 TO ALL OTHER ZONES (TOTAL= 439)									
	00	01	02	03	04	05	06	07	08	09
0	0	25	16	0	8	8	0	0	0	0
10	0	16	16	0	16	0	0	0	0	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	8	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	16
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	8	0	8	71
120	32	64	48	0	0	0	24	0	0	0
130	7	0	0	0	8	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0
150	0	8	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 131 TO ALL OTHER ZONES (TOTAL= 726)									
	00	01	02	03	04	05	06	07	08	09
0	40	0	0	0	8	0	16	0	0	0
10	0	8	8	8	0	0	0	0	16	0
20	0	0	0	0	8	0	0	0	0	0
30	0	8	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	16	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	8	0	0	0	0	0	8	0
70	0	0	0	0	0	0	0	8	0	8
80	0	0	0	0	0	0	0	0	0	0
110	8	0	8	0	8	0	8	0	24	103
120	128	8	32	8	16	8	47	7	31	0
130	0	16	0	0	8	8	0	8	0	0
140	0	0	34	0	0	0	0	0	0	32
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 132 TO ALL OTHER ZONES (TOTAL= 763)									
	00	01	02	03	04	05	06	07	08	09
0	0	14	14	7	0	0	0	0	0	0
10	0	7	0	14	0	0	0	7	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	7	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	7	0	0	7	0	0	7	0
60	0	0	0	0	0	0	7	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	7	0	70	0	14	49
120	14	91	0	7	7	7	28	0	7	0
130	0	0	308	14	7	14	0	0	0	0
140	0	0	21	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 133 TO ALL OTHER ZONES (TOTAL= 1643)									
	00	01	02	03	04	05	06	07	08	09
0	21	49	7	0	0	0	0	0	0	0
10	0	21	21	0	7	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	7	0	0	0
50	0	0	0	0	0	0	0	0	14	0
60	0	0	7	0	0	0	0	0	7	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	7	0	0
110	0	0	7	0	56	0	0	0	147	420
120	231	14	7	0	14	15	267	28	14	0
130	0	15	0	21	14	28	7	14	0	0
140	0	0	21	0	0	0	0	0	0	105
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 134 TO ALL OTHER ZONES (TOTAL= 3718)									
	00	01	02	03	04	05	06	07	08	09
0	0	7	0	0	0	0	0	0	0	0
10	14	14	8	7	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	56	2114
120	849	0	0	0	0	0	549	7	0	7
130	0	0	0	44	7	14	0	14	0	0
140	0	0	0	0	0	7	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 135 TO ALL OTHER ZONES (TOTAL= 0)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1. WORK TRIPS FROM ZONE 136 TO ALL OTHER ZONES (TOTAL= 26)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	13	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	13	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 137 TO ALL OTHER ZONES (TOTAL= 31)										
ZONE	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

TABLE 1										
ZONE	00	01	02	03	04	05	06	07	08	09
0	0	6	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	6	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	6	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	12	0	0	0
130	0	0	0	0	0	6	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 139 TO ALL OTHER ZONES (TOTAL= 71)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	8	0	0	0	0	7
120	7	0	0	0	0	0	7	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	28
150	0	0	7	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 140 TO ALL OTHER ZONES (TOTAL= 0)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	0
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 141 TO ALL OTHER ZONES (TOTAL= 264)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	88	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	89
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	89
150	0	0	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 142 TO ALL OTHER ZONES (TOTAL= 160)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	8	25
120	64	0	0	0	0	0	8	0	0	0
130	0	0	8	0	0	0	0	0	0	0
140	0	0	8	0	7	0	0	0	0	24
150	0	8	0	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 143 TO ALL OTHER ZONES (TOTAL= 49)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	6	0	0	0	0	0	0	6
120	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	14
150	6	0	12	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 144 TO ALL OTHER ZONES (TOTAL= 167)									
	00	01	02	03	04	05	06	07	08	09
0	7	7	7	0	14	0	7	0	0	0
10	0	7	0	7	0	0	0	0	0	0
20	0	0	7	0	0	14	0	7	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	7	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	7	0	0	7	0	7
80	0	0	0	0	0	0	0	0	0	0
110	0	0	7	0	0	0	0	0	21	21
120	14	0	0	0	15	7	28	7	9	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	14	0	56	28	0	0	0	0
150	0	0	28	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 145 TO ALL OTHER ZONES (TOTAL= 778)									
	00	01	02	03	04	05	06	07	08	09
0	0	22	8	0	8	0	32	0	0	0
10	0	0	8	0	8	0	0	24	16	0
20	0	0	16	0	0	16	0	0	0	0
30	17	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	8	0	0	0	0	0	16	0
60	0	0	0	0	0	0	16	16	0	0
70	0	0	0	0	0	0	0	8	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	8	0	0	0	0	0	16	40
120	16	0	9	0	0	32	0	0	0	0
130	8	0	0	0	8	0	0	0	0	0
140	0	0	40	0	16	256	0	0	0	0
150	0	0	72	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 146 TO ALL OTHER ZONES (TOTAL= 380)									
	00	01	02	03	04	05	06	07	08	09
0	20	30	0	0	0	0	0	10	0	0
10	0	0	20	0	0	0	0	0	0	0
20	0	10	0	0	0	0	0	0	0	0
30	10	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	10	0
60	0	0	0	0	0	0	0	0	10	0
70	0	10	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	10	0	0	0	0	30
120	30	0	0	0	0	10	20	0	0	0
130	0	0	0	0	0	0	0	0	0	0
140	0	0	0	0	0	0	0	0	0	140
150	0	0	10	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 147 TO ALL OTHER ZONES (TOTAL= 718)									
	00	01	02	03	04	05	06	07	08	09
0	9	18	9	0	9	0	0	0	0	0
10	0	0	9	9	0	0	0	0	9	0
20	0	0	0	0	0	9	0	0	0	0
30	0	9	0	0	0	0	0	9	0	0
40	0	0	0	0	0	0	0	9	0	0
50	0	0	0	0	0	0	0	0	9	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	9	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	9	0	0	25	53
120	36	0	0	0	0	0	45	18	0	0
130	0	0	0	9	9	0	9	9	0	0
140	0	0	18	9	9	0	0	9	9	252
150	0	0	36	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 148 TO ALL OTHER ZONES (TOTAL= 25)									
	00	01	02	03	04	05	06	07	08	09
0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	7	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	8	0	0	0	0	0
100	14	0	0	0	0	0	0	0	0	0
110	7	0	0	0	0	0	0	0	0	0
120	0	0	7	0	0	0	0	0	0	22
130	0	0	14	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 149 TO ALL OTHER ZONES (TOTAL= 387)									
	00	01	02	03	04	05	06	07	08	09
0	32	0	0	0	0	0	0	0	0	0
10	0	0	0	0	8	0	0	0	0	0
20	0	0	0	0	0	8	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	3	0
50	0	0	8	0	0	0	0	0	2	0
60	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	8	0	0	0	24	80
100	48	0	0	0	8	0	16	0	0	0
110	0	0	0	0	0	0	0	0	0	0
120	0	0	65	0	8	0	0	17	0	25
130	0	8	8	-0	-0	-0	-0	-0	-0	-0

ZONE	TABLE 1 WORK TRIPS FROM ZONE 150 TO ALL OTHER ZONES (TOTAL= 1032)									
	00	01	02	03	04	05	06	07	08	09
0	16	24	24	0	8	0	0	0	0	0
10	0	16	16	8	0	0	0	0	0	0
20	0	0	0	0	0	8	8	0	0	0
30	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	8	0	0
50	0	0	0	0	0	0	0	0	24	0
60	0	0	16	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0
80	0	0	0	8	0	0	0	0	0	0
90	0	0	0	0	0	8	0	0	24	144
100	144	0	0	0	8	0	72	0	8	0
110	8	0	0	0	0	8	0	0	0	0
120	0	0	64	0	0	0	0	0	0	280
130	0	0	72	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 151 TO ALL OTHER ZONES (TOTAL=)											44)
ZONE	00	01	02	03	04	05	06	07	08	09	05
0	8	0	8	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	8	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	8	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0
70	0	0	8	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0
140	0	0	8	0	0	0	0	0	0	0	8
150	0	0	8	-0	-0	-0	-0	-0	-0	-0	-0

TABLE 1 WORK TRIPS FROM ZONE 152 TO ALL OTHER ZONES (TOTAL=											42)
ZONE	00	01	02	03	04	05	06	07	08	09	
0	0	0	0	0	0	0	0	0	0	0	
10	0	0	0	0	0	0	0	0	0	0	
20	0	0	0	0	0	0	0	0	0	0	
30	0	0	0	0	0	0	0	0	0	0	
40	0	0	0	0	0	0	0	0	0	0	
50	0	0	0	0	0	0	0	0	0	0	
60	0	0	0	0	0	0	0	0	0	0	
70	0	0	0	0	0	0	0	0	0	0	
80	0	0	0	0	0	0	0	0	0	0	
110	0	0	6	0	0	0	0	0	0	12	
120	0	0	0	0	0	0	6	0	0	0	
130	0	0	0	0	0	0	0	0	0	0	
140	0	0	0	0	0	0	0	0	0	6	
150	0	0	6	-0	-0	-0	-0	-0	-0	-6	

APPENDIX L

Approximate Tract-Zone Equivalency for Aggregating Trips

APPENDIX L

Approximate Tract-Zone Equivalency for Aggregating Trips

<u>Tract</u>	<u>Full Zones</u>	<u>Partial Zones</u>
001	18, 22, 23	0.75(24), 0.25(21)
002	6, 19, 20	0.33(5), 0.25(21, 24)
003	14, 15, 16	0.50(21), 0.25(10), 0.20(13)
004	5	0.80(13), 0.33(4)
005	3	0.33(4)
006	1	
007	7	0.33(2, 4, 10)
008	9, 11, 66	0.67(10, 51), 0.50(12, 57)
009	46, 53, 59	0.50(54), 0.33(47)
010	60	0.67(47), 0.50(48, 54), 0.33(55)
011	49	0.67(55, 56), 0.50(48, 62)
012	8, 50, 57	0.50(62, 65), 0.33(51, 56)
013	61, 64, 67	
014	68, 75, 77	
051	125, 132	
052	117, 122, 123, 124, 131	0.50(116, 130), 0.33(121)
053	113	0.50(115, 116), 0.33(121)
054	119, 120, 127	0.50(112, 114, 115, 128)
055	118	0.50(112, 114, 126)
102	138, 139, 140, 141, 142, 148, 149, 143, 144, 150, 151, 152	0.50(135)
103	129	0.50(135)
104	134	0.50(128)
105	133	0.50(126)
106	79, 80, 136, 137, 146, 147	
107	72, 73, 74, 81, 82, 83	
108	25, 26, 27, 28, 29, 31, 32, 17, 52, 58, 63, 70, 76	

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