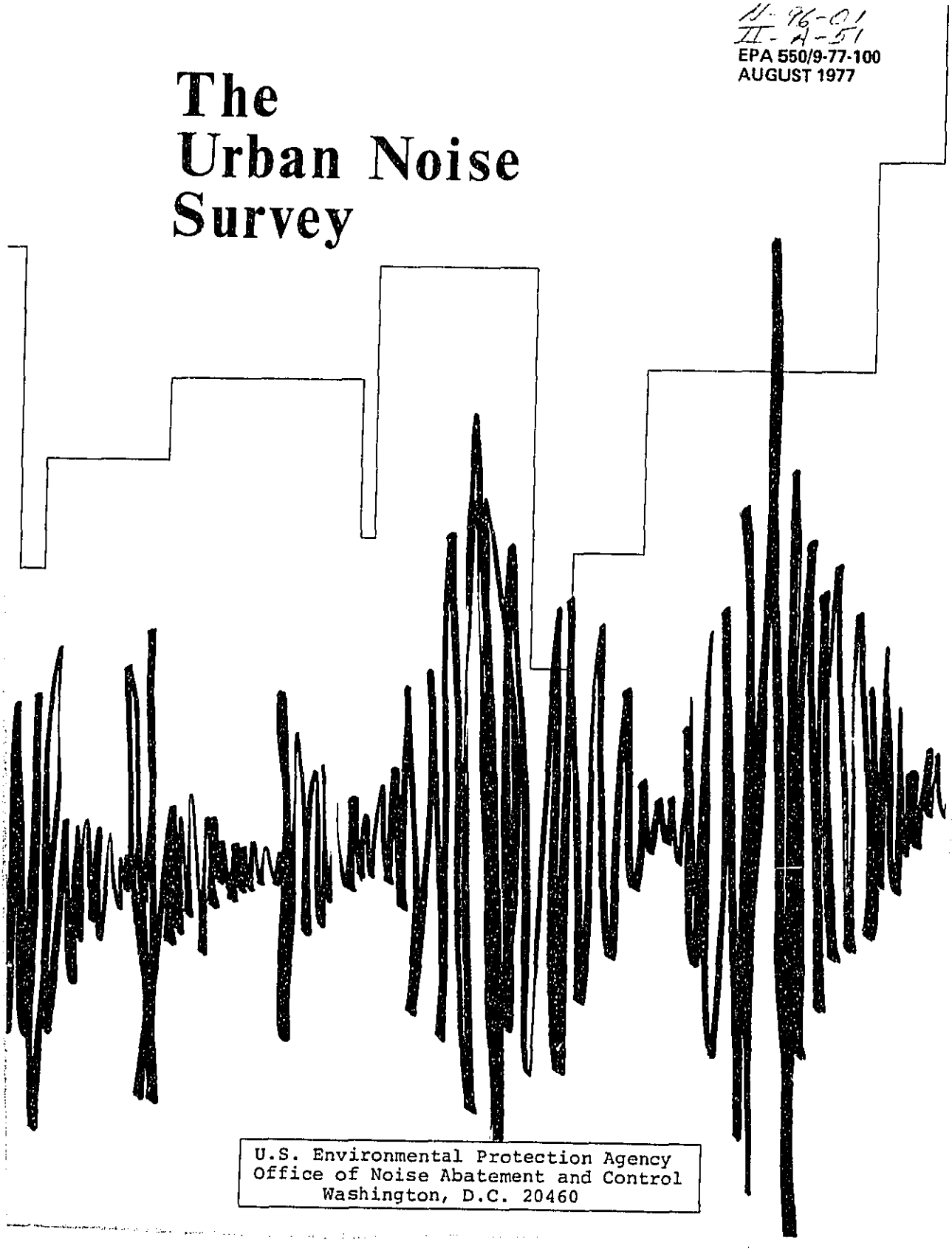
EPA 550/9-77-100
AUGUST 1977

The Urban Noise Survey



U.S. Environmental Protection Agency
Office of Noise Abatement and Control
Washington, D.C. 20460

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: EPA Report No. 550/9-77-101

DATE: November 29, 1977

FROM: Jeffrey Goldstein
Bioacoustical Scientist
Scientific Assistant's Staff

THRU: Rudolph M. Marrazzo
Scientific Assistant to the DAA

TO: ONAC Professional Staff

Attached for your information and retention is a document entitled "The Urban Noise Survey." This report presents the results of a social survey of over 2,000 respondents at 24 selected urban locations throughout the United States.

Assessment of the health and welfare impact of noise (or the benefits projected from lessening noise in the environment) are obviously dependent upon a satisfactory determination of people's response, perception and attitudes toward the overall noise environment and the major noise contributors. Such a determination is necessary if we are to effectively reduce the human response element associated with hazardous or undesirable environmental noise.

Most of the usable social survey data base on community response to noise has been local in character and has been concerned primarily with airport and highway noise. Such source-related, small scale surveys have not produced the depth or breadth of information required by EPA/ONAC about the significance of environmental noise from the standpoint of public perceptions. Hence, it becomes increasingly important to evaluate the attitudes of people concerning noise in the residential environment in urban areas away from airports and freeways. This is particularly consequential since other EPA data show that the primary exposure of the nation's population to noise occur in these non-airport and non-freeway urban and suburban areas.

Accordingly, a social survey (coupled with an extensive noise measurement program to acoustically describe the urban environment) was conducted to sample opinion over the entire range of noise exposure and population density characteristic of non rural America. The objectives of the National Urban Noise Survey were to establish relationships between noise exposure and human response as a function of situational and attitudinal variables associated with the life styles of people residing in urban areas away from highways and airports, as well as to establish the outdoor noise levels at which noise becomes the salient factor in the generation of annoyance as a response indicator.

The study yielded a number of important and significant findings which are summarized on page 81 of the report. I am sure you will find the report to be most supportive of your respective programs. Please contact me if you wish to discuss the content of the study and its potential applications.

Enclosure

EPA # 550/9-77-100

THE URBAN NOISE SURVEY

August 1977

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Noise Abatement and Control
Washington, D.C. 20460

Under Contract No. 68-01-4184

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ACKNOWLEDGEMENTS

The author is indebted to colleagues at Bolt Beranek and Newman for discussions, suggestions, and assistance in the analysis of the data of the National Urban Noise Survey. In particular, Drs. William Galloway and David Green suggested statistical analyses; Dr. Theodore Schultz's work was the basis of comparisons with other survey data; Dr. Glenn Jones examined the attitudinal data for inflection points; Mr. Myles Simpson prepared much of the information on noise sources; Mr. Richard Horonjeff analyzed the relationship between noise levels and annoyance as a function of time of day; and Messrs. Karl Pearsons and Dwight Bishop commented on draft material. Mr. Suyeo Tomooka assisted extensively in data reduction.

I. INTRODUCTION

A major responsibility of the Environmental Protection Agency, Office of Noise Abatement and Control (EPA/ONAC), is to protect public health and welfare from the deleterious effects of noise by coordinating research activities, promulgating Federal noise emission standards, and providing information to the public regarding the effects and control of noise. Such activities must be based as firmly as possible upon scientific understanding of the effects of noise on people. EPA/ONAC has thus far relied extensively upon the information contained in the "Levels Document" (EPA, 1974) for information about the extent and severity of various impacts of noise.

The research from which these public health and welfare criteria were derived, however, was quite specialized and narrow. In particular, the great bulk of the data on community response to noise exposure (principally annoyance) concerned aircraft and airport related noise only. Since only a small proportion of the American population is exposed to such noise, a nationwide Urban Noise Survey (UNS) was undertaken in the Spring of 1974.

UNS differed from previous studies of noise pollution in several important ways:

(1) The survey was national rather than local in scope. Prior social surveys had generally been restricted to a small number of geographically related sites.

(2) UNS did not place emphasis upon the evaluation of any single noise source. Almost all previous study of community reaction to noise exposure had been limited to transportation noise.

(3) UNS was specifically intended to investigate community reaction over broad ranges of noise exposure conditions and lifestyles.

(4) UNS was designed to take advantage of systematic a priori noise exposure information. The interviewing sites were selected from one hundred sites nationwide at which very detailed noise measurements had been made.

Thus, the data of UNS offer the most comprehensive sampling of public reaction to noise exposure yet available. The data cover virtually the entire range of noise exposure and population density conditions in non-rural America. Data were collected at twenty four sites in seven cities across the nation at which previous detailed noise measurements had been made for other purposes (Galloway et al., 1974). These sites, although exposed to occasional aircraft overflights, were intentionally selected to avoid significant airport and highway noise exposure. Human exposure to surface street traffic noise was nonetheless comparable in level to highway noise at some sites.

More than two thousand interviews of randomly selected respondents were conducted at these sites, with a comprehensive yet brief questionnaire that contained questions about all major effects of noise on people and all predominant sources of community noise. One unique feature of

this survey was that a continuous set of 24 hour noise measurements was taken at the sites *at the same time* that interviewing was in progress. Another important difference in design was direct measurement of annoyance, as discussed by Rylander et al. (1972) inter alia. The prevalence of annoyance was not inferred from constructed statistical indices; it was determined from respondents' answers to specific questions.

This report presents the overall analysis of the data of the national Urban Noise Survey. Like the experimental design, the analysis departs from some prior analyses of social survey data. In particular, greater emphasis is placed on prevalence of noise effects in groups of people instead of individual attitudinal variables. Thus, little effort is made to "explain" individual attitudes by comparing their intensities. Rather, attention is concentrated on predicting population proportions affected in various ways by noise exposure.

II. METHOD

The following summary of procedures, excerpted in part from Simpson et al. (1974), is intended only as a brief summary. The reader is referred to Simpson et al. (1974) for more detailed information and a discussion of the rationale of the survey.

Four disjunctive criteria were employed for site selection.

- First, roughly equal numbers of respondents in each of six noise exposure ranges centered at L_{dn} values of 50, 55, 60, 65, 70 and 75 dB were to be interviewed. This procedure was intended to produce equal expected precision of measurement over the sampled range of noise exposures.

- The second criterion for site selection was that opinion be sampled at sites characterized by widely varying population densities. For a given noise exposure, respondents were therefore interviewed in each of four different population density classes centered at 2000, 6300, 20,000 and 63,000 people per square mile. This criterion was adopted because the variable "population density" is associated with lifestyles, which may in turn influence opinions. High population densities imply apartment living, relatively little time spent outdoors, use of mass transit, etc. Low population densities imply suburban living, use of private automobiles, more outdoor noise exposure, etc.

- The third criterion for selection of sites was that the number of interviews conducted within each population density class be roughly proportional to the national distribution of population density.

- The final criterion required selection of sites within cities representative of major geographic areas of the country.

At each of the 24 sites, a questionnaire was administered by telephone to approximately 75 respondents. For comparitive purposes, the interview was conducted face-to-face with an additional 50 respondents at four sites.

The questionnaire (contained in Appendix A) was designed to gather information about the respondents' attitudes toward their environment, with the greatest emphasis on noise. Simple random sampling without replacement was elected as the sampling procedure. The sample frame most appropriate to the available resources was the reverse telephone directory. The target population of the survey was the adult American urban population habitually exposed to community noise not predominantly of aircraft or highway origin.

III. RESULTS

Interview data were keypunched on tabulating cards and processed by computer. Numerous tabulations of these data may be found in Appendix B. They are of interest primarily to those who wish to make uses of the data beyond those reported here. This section procedes from the general to the specific, through successively finer analyses of findings. Few readers will be equally interested in all sub-sections. Those satisfied with a descriptive account of "what happened" need not read beyond the preliminary sections for a narrative account of findings. For readers more interested in statistical analyses, the introductory sections may be tedious. Such readers may wish to procede to Sections III-17 et seq. after reading Section III-1.

Section III-1 presents an overall view of the findings as a context within which other analyses may be understood. Sections III-2 and III-3 describe major effects associated with the two independent variables of UNS (noise exposure and population density). Sections III-4 through III-6 present demographic differences associated with age, sex, and socioeconomic level. Sections III-7 through III-16 contrast response patterns associated with answers to key questions.

For the sake of clarity and brevity, most of these introductory sections contain contrasts between extreme subsamples; e.g., high vs. low noise exposure, high vs. low

socioeconomic level, young vs. old respondents, etc. Differences not specifically mentioned are of small size or little relevance. Furthermore, percentages are reported rounded off to the nearest integer. The reader is also cautioned against drawing causal inferences about the simple relationships discussed in the first sixteen subsections, since virtually all of these first order relationships have strong higher order interactions.

Sections III-17 et seq. are given to statistical inference rather than simple description. Section III-17 presents findings pertaining to noise sources. Section III-18 summarizes regression analyses for key variables. Section III-19 details a search for critical noise levels. Section III-20 explores the relationship between noise exposure and annoyance as a function of time of day. Section III-21 addresses a methodological issue, the mode of interviewing. Section III-22 is concerned with another methodological issue, sampling bias.

III-1 Overview of Data

A total of 2037 persons (762 men, 1275 women) was interviewed, of whom 670 men and 1164 women were interviewed by telephone. The other respondents were interviewed in person. Table III-1 summarizes the number of interviews conducted at each site, as well as the noise level and population density of each site.

Nationwide, 69% of all respondents rated their neighborhoods as good or excellent places to live, with only 23% seriously thinking of moving within the next year. Of these people, only 1% cited noise as a reason for moving. Sixty-two percent of all respondents regarded their neighborhoods

TABLE III-1

OVERVIEW OF DATA COLLECTION

CITY	SITE	NUMBER OF RESPONDENTS	L_{dn}	POPULATION DENSITY
Atlanta	0403	80	62.3	1,700
	0404	76	60.2	11,200
Boston	0005	74	51.1	1,000
	0006	78	72.8	11,100
	0007	76	60.8	5,800
	*0097	49	60.8	5,800
	0008	64	70.6	10,100
	*0098	44	70.6	10,100
Chicago	0502	90	69.0	6,600
	0503	79	62.7	12,900
	0506	65	64.3	20,600
	0511	82	68.9	65,000
Los Angeles	1601	77	57.6	12,400
	*1691	50	57.6	12,400
	1607	87	59.1	4,900
	*1697	50	59.1	4,900
	1608	82	56.1	7,500
	1609	79	56.6	2,500
San Francisco	1001	85	67.3	38,800
	1003	80	71.7	41,900
	1005	70	62.4	41,900
Seattle	1501	74	54.3	2,600
	1502	75	54.8	1,600
	1503	78	56.1	1,200
	1505	75	53.6	7,300
Washington	0104	72	64.5	26,000
	0105	72	62.7	37,000
	0106	74	61.9	8,800

*Sites at which personal (face-to-face) interviews were conducted.

as quiet, but 46% claimed to have been "bothered or annoyed" by noise in their neighborhoods.*

Thirty-one percent of the ever-annoyed people were "highly annoyed" (self-rated "very" or "extremely" on an adjective scale that also included the terms "not at all", "slightly", and "moderately") by noise in their neighborhoods. Neighborhood noise was thought to be equally annoying at all times of day by 22% of the ever-annoyed; another 22% of these people found neighborhood noise more annoying in the evening than at other times of day; and 27% found such noise more annoying at night.

Over half of the ever-annoyed found noise more bothersome when inside the house than when outside; the others either found noise more bothersome outdoors or felt there was no difference outside or inside the house. The major findings with regard to time and place of annoyance are summarized in Figure III-1.

Table III-2 rank orders the frequency with which ever-annoyed people reported hearing various noise sources. The table also indicates the average annoyance on an arbitrary 5 point adjective scale (where 1 corresponds to "not at all annoyed" and 5 corresponds to "extremely annoyed") associated with each source. As the table shows, motor vehicle noise was the most pervasive noise source

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*These latter respondents are referred to henceforth as the "ever-annoyed". Because the structure of the questionnaire concentrated attention on the ever-annoyed, most of the findings reported below concern this group of people. Figures based on the total sample are referred to as "percentages of all respondents".

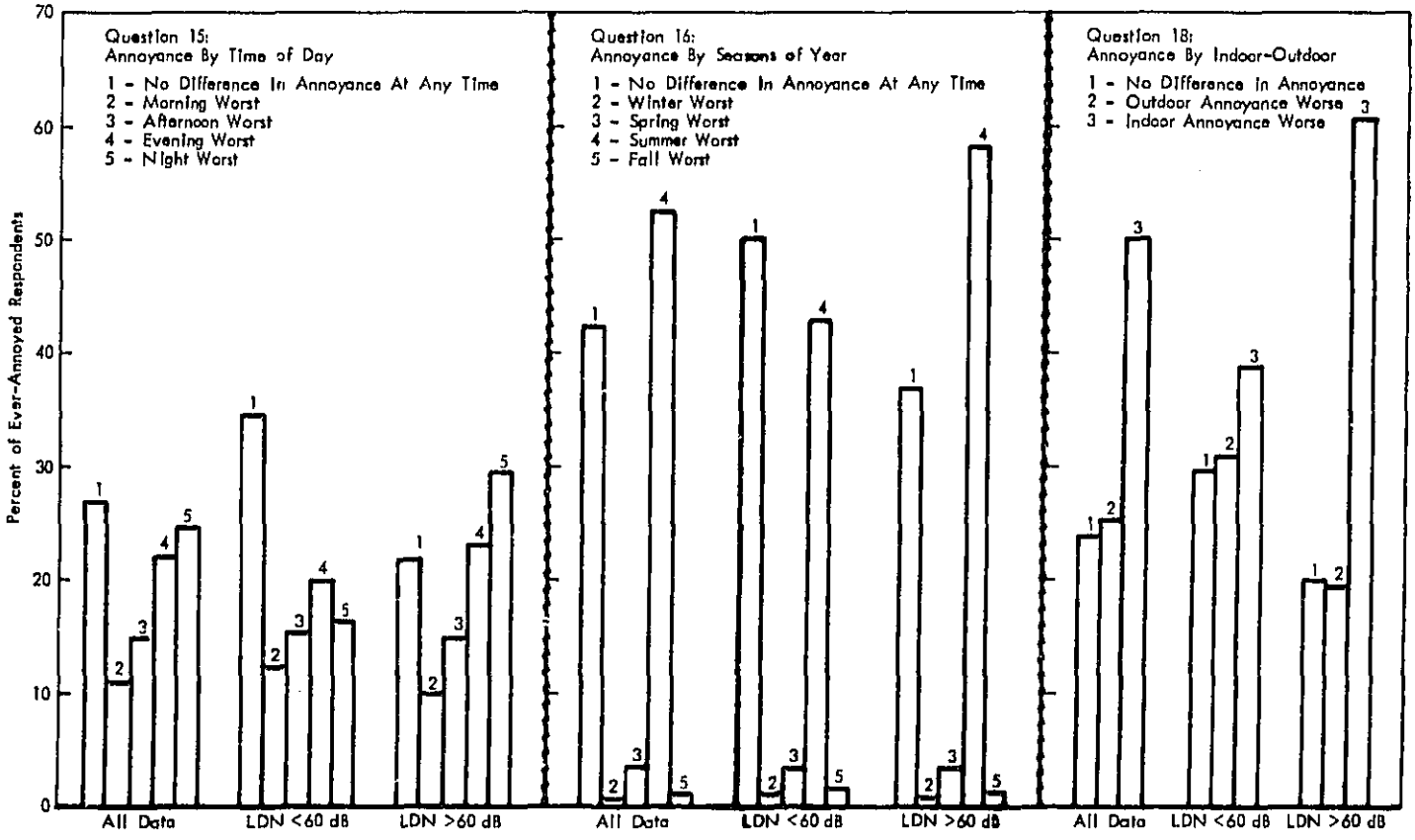

FIGURE III-1. SUMMARY OF FINDINGS WITH REGARD TO TIME AND PLACE OF ANNOYANCE.

TABLE III-2

FREQUENCY OF IDENTIFICATION AND MEAN ANNOYANCE OF NOISE SOURCES NATIONWIDE

SOURCE	% OF EVER-ANNOYED PEOPLE REPORTING SOURCE[1]	INTENSITY OF ANNOYANCE[2]
Motor Vehicle Noise	86	2.9
Motorcycles	82	2.9
Pets	75	2.7
People's Voices	71	2.3
Airplanes	67	1.9
Helicopters	59	2.0
Construction Noise	46	2.6
Power Garden Equipment	44	1.7
Radio, TV	40	2.3

[1]These figures must be multiplied by .46 if extrapolated to the entire sample. For example, the 86% of the ever-annoyed people who reported annoyance from motor vehicle noise constitute 40% of the entire sample.

[2]Mean annoyance on an arbitrary five point scale.

heard nationwide (reported by 86% of these respondents), and also the most annoying. People and pets were the next most often noticed sources, followed by aircraft, construction, power garden equipment and electronic sources (radios, TVs, etc.).

Table III-3 rank orders the frequency with which people who had ever been annoyed by noise in their neighborhoods experienced various effects of noise. Sleep disturbance, the most common effect of noise exposure (reported by 60% of these respondents) was also the most annoying (with a mean value of 3.6). Startle and speech interference were somewhat less pervasive effects, and of lesser annoyance.

Nineteen percent of the ever-annoyed people (9% of all respondents) claimed to have complained to officials about noise in their neighborhoods. Twenty-four percent of all respondents felt themselves to be more sensitive to noise than most people, while only 6% of all respondents felt that noise exposure had affected their health.

III-2 Differences Associated with Noise Exposure

The numerous effects associated with noise exposure are most simply presented by comparing data from two extreme subsamples: one of six heavily exposed sites (mean L_{dn} = 70.0 dB) and one of seven lightly exposed sites (mean L_{dn} = 54.6 dB). All comparisons in this section are of averaged data from the high noise exposure subsample with respect to the low noise exposure subsample.

TABLE III-3

PERCENTAGE OF RESPONDENTS EXPERIENCING NOISE EFFECTS AND INTENSITY OF ANNOYANCE ASSOCIATED WITH EFFECTS

SOURCE	% OF EVER-ANNOYED PEOPLE REPORTING EFFECT[1]	INTENSITY OF ANNOYANCE[2]
Sleep Disturbance	60	3.6
Startle or Fear	41	3.3
Speech Interference:		
Intelligibility	39	3.2
Production	36	3.0

[1]These figures must be multiplied by .46 if extrapolated to the entire sample. For example, the 60% of the ever-annoyed people who reported sleep disturbance constitute 28% of the entire sample.

[2]Mean annoyance on an arbitrary five point scale.

Neighborhood satisfaction was considerably lower in the high exposure subsample. Thirty four percent fewer people in the high exposure subsample described their neighborhoods as an excellent place to live, and 24% more people described their neighborhoods as only a fair place to live (Q. 4)*. Fifteen percent more people at the high exposure sites intended to move out of the neighborhood in the next year (Q. 9). Thirty eight percent fewer people regarded their neighborhoods as quiet (Q. 11). Seventeen percent more people had been annoyed by noise (Q. 13) at the high exposure sites; and twenty seven percent more people were annoyed in their homes (Q. 18). Figure III-2 is a plot of the percentage of respondents at each of the 24 sites who were highly annoyed by noise exposure (i.e., rated themselves as "very" or "extremely" annoyed). The correlation coefficient between L_{dn} and annoyance, .70, is extremely unlikely to have arisen by chance alone from a sample of size 24. Its fiduciary limits (for a 95% confidence interval) are from 0.45 to 0.86.

Emphasis placed upon the annoyance of various noise sources differed considerably between the two subsamples, with smaller numbers of respondents in the high exposure subsample reporting annoyance from pets (21% fewer), helicopters (33% fewer), power garden equipment (47% fewer), sports cars (11% fewer), and motorcycles (9% fewer). On the other hand, more respondents in the high noise exposure subsample reported annoyance from construction noise (9% more), people's voices (24% more), radio and TV sets (11%

*This number refers to questionnaire item 4, found in Appendix A.

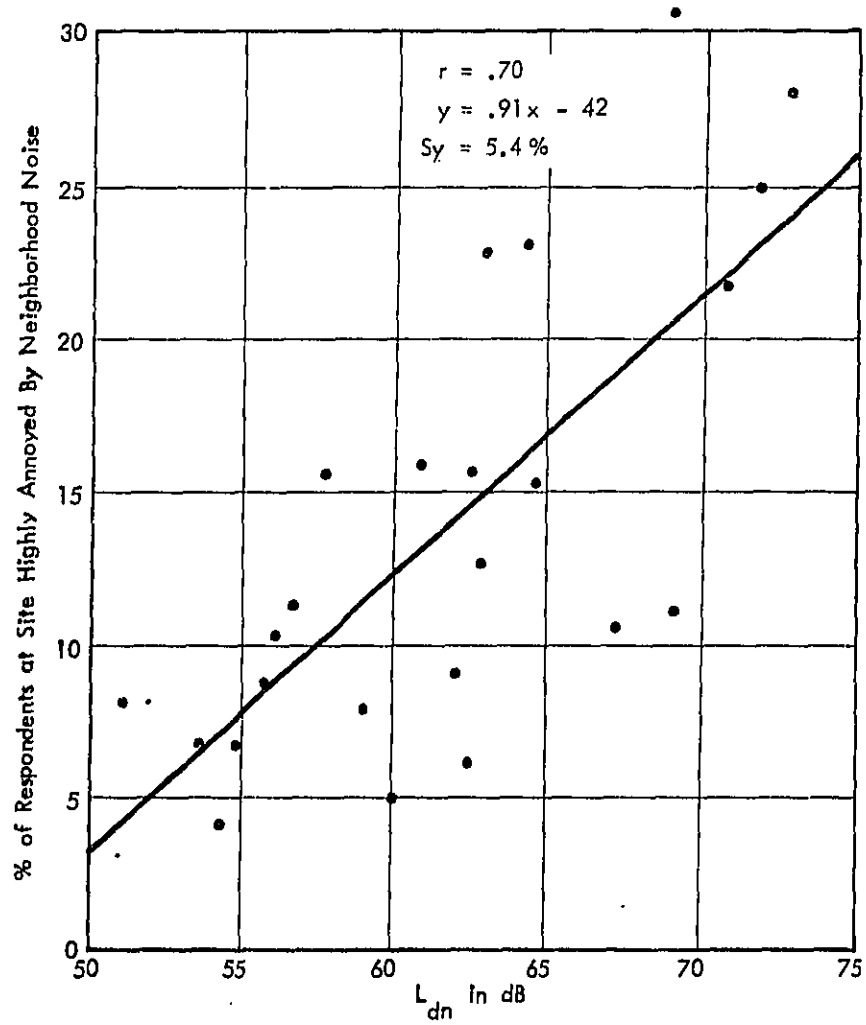

FIGURE III-2. RELATIONSHIP BETWEEN NOISE LEVEL AND PERCENTAGE OF RESPONDENTS AT EACH SITE HIGHLY ANNOYED BY NEIGHBORHOOD NOISE

more), motor vehicle noise (13% more), large trucks (15% more), buses (19% more), and constant traffic (38% more).

Similarly, more respondents in the high exposure subsample reported activity interference such as listening (25% more), speaking (20% more), and sleeping (8% more). Seven percent more respondents in the high exposure subsample claimed to have registered complaints about noise with officials. Figure III-3 plots complaint rates as a function of noise exposure at the 24 sites. The correlation coefficient, .23, is likely to have arisen by chance alone. In general, the direction of differences between responses in the two subsamples were consistent with the position that noise exposure degrades the quality of life.

III-3 Differences Associated with Population Density

Effects of population density on response patterns were analyzed in the same fashion as in Section III-2, through comparisons between extreme subsamples. Data from five high population density sites (mean density = 44,920 people per square mile) are compared with data from five low population density sites (mean density = 1600 people per square mile). Comparisons in this section are of averaged data from the high density subsample with respect to the low density sample.

Response patterns in the extreme population density subsamples closely paralleled (within a few percent) those

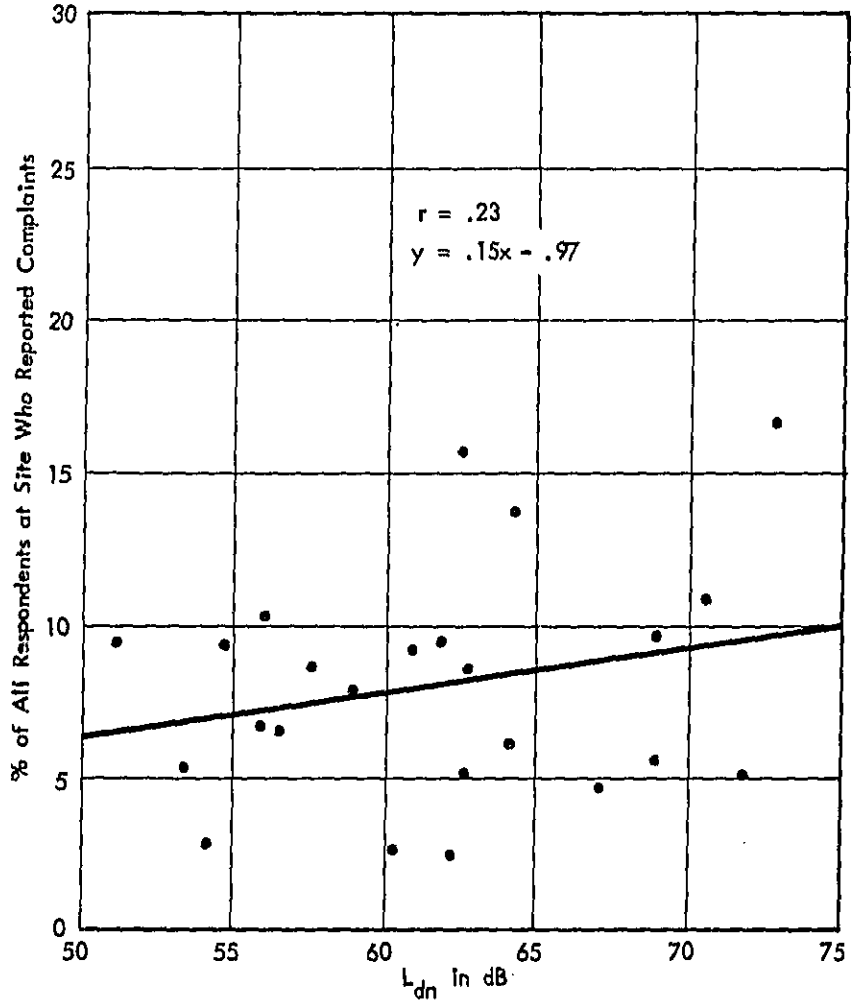

FIGURE III-3. RELATIONSHIP BETWEEN NOISE LEVEL AND PERCENTAGE OF RESPONDENTS AT EACH SITE WHO REPORTED COMPLAINTS

associated with noise exposure. While neighborhood satisfaction was lower in the high density subsample, the incidence of noise induced annoyance was higher. The proportions of respondents reporting annoyance from various sources differed very little from those reported in Section III-1. Those sources more prevalent in highly urbanized areas were more often mentioned than was the case in high noise areas; e.g., people's voices, airplanes, radio and TV sets, and automobiles.

Twenty percent more people in the high density subsample reported interference with listening, 9% more reported interference with talking, and 9% more reported sleep disturbance. These figures hardly differ from those noted in Section III-2.

III-4 Differences Associated with Age

To assess differences in opinions associated with age, respondents were divided approximately into thirds on the basis of age, as estimated from the year in which formal schooling was completed. This section contrasts the opinions of the 30% of the respondents aged 30 years or younger with the 34% of the respondents aged 45 or older.

Differences in neighborhood satisfaction associated with noise between the two groups were negligible. Older respondents had lived longer in their neighborhoods, while younger respondents were more ready to move within the year. Nonetheless, differences in percentages of the two groups citing noise as a cause for discontent were mostly less than 5%.

Six percent fewer of the younger group thought their neighborhoods were quiet, but 15% fewer reported being annoyed by noise in their neighborhoods. Eleven percent more of the younger respondents could not distinguish seasonal differences in annoyance, but 13% more of the older respondents thought neighborhood noise was more annoying in the summer. Greater percentages of the older respondents thought neighborhood noise was more annoying weekdays (13% more) and inside the house (15% more).

Fourteen percent fewer of the older respondents were annoyed by construction noise, but greater percentages of the older respondents reported annoyance from airplanes (11% more), helicopters (11% more), power garden equipment (15% more), sports cars (11% more), and motorcycles (11% more). Nonetheless, uniformly greater percentages of the younger respondents reported speech or listening interference (18% and 6% more, respectively), startle or fright (15% more), or sleep interference (19% more). Nine percent more of the older respondents felt they were more sensitive than most to noise. A gross relationship between age and complaint rates may be seen in Figure III-4.

III-5 Differences Associated with Sex

Differences between male and female respondents were small both in number and magnitude. For example, the largest difference between men and women among the neighborhood satisfaction questions was less than 6%. More men intended to move within the next year than women, but only about 1% of either sex respondents gave noise as a reason for moving.

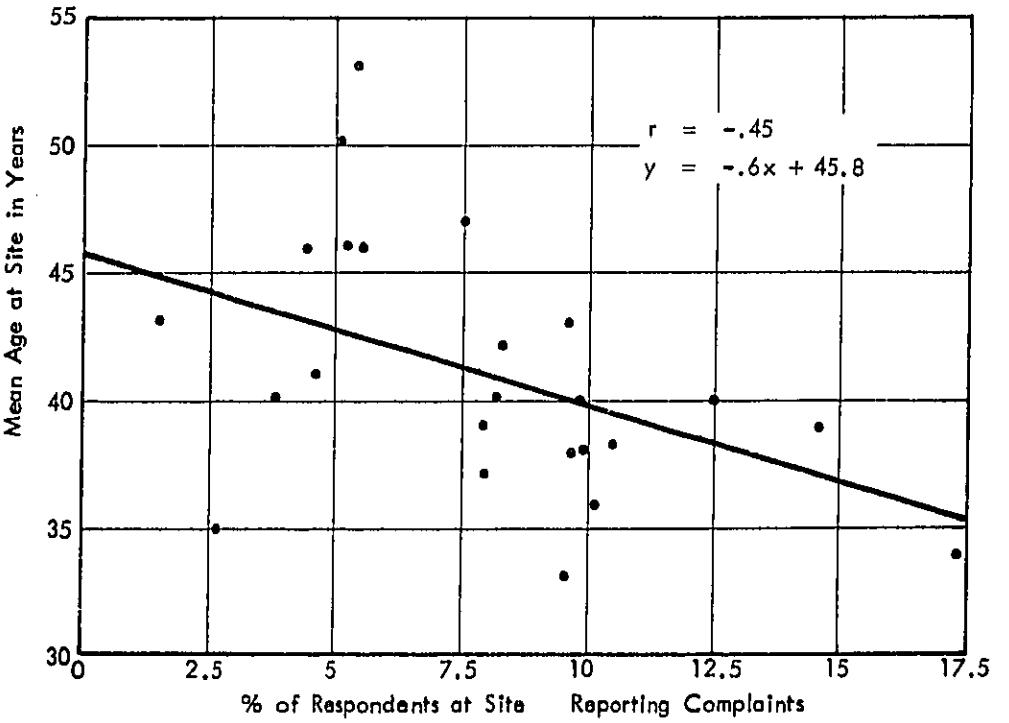

FIGURE III- 4. RELATIONSHIP BETWEEN AGE AND COMPLAINTS

Differences between the sexes with regard to assessment of noisiness and annoyance associated with neighborhood noise exposure were also trivial. The largest difference of opinion was an 8% difference on the issue of season of the year of greatest annoyance - more men than women felt that summer was the most annoying time.

Differences between men and women in ratings of noise sources were also inconsequential, rarely exceeding two or three percent. A sole exception was that 10% more women reported hearing construction noise in their neighborhoods. No differences on other substantive matters (such as activity interference, complaint rates, sensitivity to noise, or health effects) exceeded 5%, and most were on the order of one or two percent.

Perhaps the most notable difference between the sexes on the entire questionnaire was in time spent at home. Women reported spending about 3-1/2 more hours at home on both weekdays and weekends than men.

III-6 Differences Associated with Socioeconomic Level and Income

A. Socioeconomic Level

The subsamples contrasted in this subsection are respondents in the upper and lower halves of the Duncan scale of socioeconomic level. The observed differences tend to support the hypothesis that high socioeconomic level respondents suffer less from noise pollution than do low socioeconomic level respondents.

For example, neighborhood satisfaction was higher among the high socioeconomic level respondents (18% more rated their neighborhoods as excellent places to live); 6% fewer of the high socioeconomic level respondents were thinking of moving within the year; 9% more of the high SEL respondents considered their neighborhoods quiet; and 19% more of the high socioeconomic level respondents were unable to distinguish differences in annoyance with neighborhood noise among the seasons.

Differences in rates of identification of various noise sources were relatively small but consistent; 8% fewer high socioeconomic level respondents reported hearing people's voices, 4% fewer reported airplanes, 6% fewer reported automobiles, and 7% fewer reported traffic. On the other hand, 6% more high socioeconomic level respondents reported hearing pets, 7% more reported power garden equipment, and 8% more reported sports cars.

Similarly, 9% fewer high socioeconomic level respondents reported interference with listening, and 6% fewer reported fear or startle. Seven percent more of the high socioeconomic level respondents reported complaining about neighborhood noise. High socioeconomic level respondents spent an average of an hour and a quarter more at home on weekdays, and two and a half hours more at home on weekends.

B. Income

The pattern of differences associated with extreme income groups was predictably similar to those associated with extreme socioeconomic groups. The magnitudes of the differences tended to be greater, however. The two income subsamples

contrasted here are those respondents reporting annual household incomes below $10,000 and those respondents reporting annual household incomes above $20,000.

Forty two percent more high income respondents rated their neighborhoods as excellent places to live; 15% fewer high income respondents were thinking of moving within the year; and 20% more of the high income respondents thought their neighborhoods were quiet. A relationship between income and exposure levels is seen in Figure III-5.

Differences in identification of noise sources were also similar to those associated with high socioeconomic levels. Twenty one percent more high income respondents reported power garden equipment, 18% reported more sports cars, and 12% reported more motorcycles. On the other hand, 11% fewer reported constant traffic noise.

Likewise, 16% fewer high income respondents reported that noise interfered with listening, and 9% fewer were startled or frightened by neighborhood noises. Nonetheless, 7% more high income respondents reported sleep disturbance. Seven percent more high income respondents also reported complaining about neighborhood noise. The high income respondents spent about an hour and forty minutes more time at home on weekdays than did the low income respondents, and an additional hour and a half on weekends.

III-7 Differences Associated with Neighborhood Satisfaction (Q. 4)

The 69% of all respondents who rated their neighborhoods as good or excellent places to live (the "highly satisfied") differed from the 31% of all respondents who rated their neighborhoods as

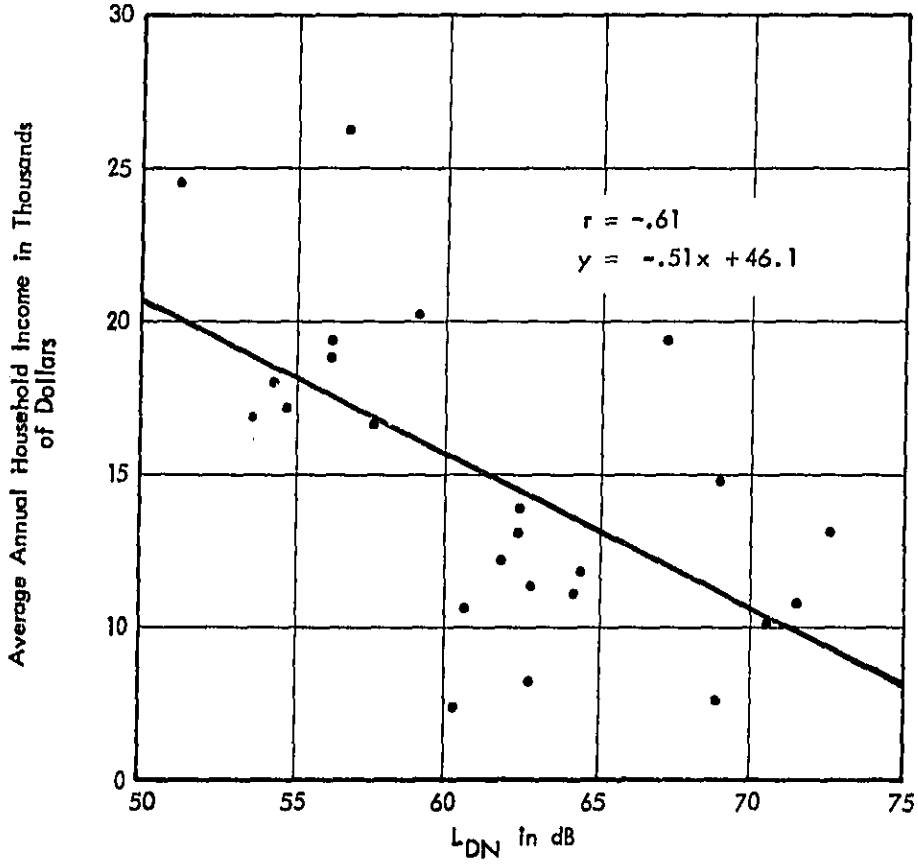

FIGURE III-5. RELATIONSHIP BETWEEN AVERAGE ANNUAL HOUSEHOLD INCOME AND NOISE LEVELS AT 24 SITES

fair, poor, or very poor places to live in a number of ways. For one thing, the highly satisfied experienced fewer activity interferences from noise: 16% fewer reported interference with listening, 8% fewer reported interference with talking, 6% fewer reported sleep disturbance, 8% fewer reported fear or startle, and 12% fewer reported keeping windows shut because of noise exposure. Six percent fewer had complained of noise. Interestingly, the highly satisfied respondents averaged slightly less time at home weekdays and weekends than those less satisfied with their neighborhoods (about 15 and 20 minutes, respectively).

Thirty six percent more of the respondents who thought their neighborhoods were good or excellent viewed their neighborhoods as quiet. Further, nineteen percent more of those highly satisfied with their neighborhoods had never been bothered or annoyed by noise in their neighborhoods. The highly satisfied who had been bothered or annoyed were not as aware of differences in annoyance as a function of time of day or season of the year. The highly annoyed identified fewer neighborhood noise sources as annoying, and were generally less annoyed by them.

Not surprisingly, the respondents who were highly satisfied with their neighborhoods were of a higher socioeconomic level than those who were not (by about one and a half deciles on the Duncan scale), and reported average annual household incomes twice as great as respondents less satisfied with their neighborhoods ($11,500 vs. $5,700).

III-8 Differences Associated with Rated Noisiness of Neighborhoods (Q. 11)

Sixty two percent of all respondents described their neighborhoods as quiet when asked to characterize them as quiet, noisy, or

neither quiet nor noisy during the preceding year. The responses of these respondents are contrasted with those of the 31% of all respondents who characterized their neighborhoods as noisy.

Thirty four percent more of those who thought their neighborhoods were quiet also rated them as excellent or good places to live. Sixteen percent more spontaneously mentioned the absence of noise as the most favored aspect of living in their neighborhoods. Fourteen percent more of those characterizing their neighborhoods as noisy were thinking of moving during the next year. Forty nine percent more of the respondents who thought their neighborhoods were quiet had never been annoyed by noise in their neighborhoods. Thirty seven percent more of the respondents who thought their neighborhoods were quiet reported that annoyance was only minimal (not at all or slightly), whereas 38% more of those respondents who thought their neighborhoods were noisy found their annoyance considerable (moderately, very, or extremely).

Twenty one percent more of the respondents who thought their neighborhoods were noisy thought that noise was more annoying in the evening or at night, while 15% more of the same respondents were more annoyed indoors than outdoors.

The predominant noise sources heard by people who thought they lived in quiet neighborhoods were peoples' voices (16% more than in noisy neighborhoods) and constant traffic (18% more than in noisy neighborhoods). Conversely, greater percentages of respondents who thought they lived in noisy neighborhoods reported hearing power garden equipment (17% more), helicopters (15% more), and motorcycles and sports cars (8% more each).

It is quite clear that people who thought they lived in quiet neighborhoods suffered fewer effects of noise exposure, since 25%

fewer reported interference with listening, 18% fewer reported interference with speaking, 20% fewer reported sleep interference, 15% fewer reported startle or fear, and 22% fewer reported shutting windows because of intrusive noise. Slightly fewer (3%) of the respondents who thought they lived in quiet areas reported complaining about noise, while 11% more thought noise had not affected their health.

The mean annual household income was somewhat greater for those who thought they lived in quiet neighborhoods ($10,650 vs. $8,250).

III-9 Differences Associated with Annoyance from Neighborhood Noise (Q. 13)

The major breakpoint in the interview was at Question 13, "Have you ever been bothered or annoyed by noise in your neighborhood?" If answered negatively (as 53% of all respondents did), the interview concluded quickly without questioning about noise sources or effects. This section contrasts the responses of the "never-annoyed" with those of the "ever-annoyed".

Seventeen percent more of the never-annoyed respondents thought their neighborhoods were good or excellent places to live. Ten percent more of the never-annoyed specifically mentioned a noise-related aspect of their neighborhoods (e.g., "peace and quiet", "no noise from ....", etc.) as the "first most liked thing" (Q. 5). Thirteen percent fewer of the never-annoyed specifically mentioned a noise related aspect of their neighborhoods as the "least liked thing" (Q. 7). Eleven percent fewer of the never annoyed were thinking of moving within the year.

Forty one percent more of the never-annoyed respondents described their neighborhoods as quiet places to live, and 11% fewer of them thought neighborhood noise had affected their health.

III-10 Differences Associated with Intensity of Annoyance (Q. 14)

Fourteen percent of all respondents described noise in their neighborhoods as either very or extremely annoying over the past year. The relationship between annoyance so measured and average income at the 24 sites is seen in Figure III-6. Among the most notable differences between these highly annoyed respondents and the others were their self reports of the effects of noise exposure.

Twenty one percent more of the highly annoyed respondents judged their health to have been affected by neighborhood noise; specifically, in the form of hearing damage. Eleven percent more of the highly annoyed respondents thought themselves more sensitive to noise than most people. Twenty four percent more of the highly annoyed reported sleep interference, 20% more reported interference with listening, 21% more reported interference with speaking, 21% more reported shutting windows to keep out noise, and 12% more reported startle from noise. In general, greater numbers of highly annoyed respondents identified the various noise sources as annoying, and were consistently more greatly annoyed by each noise source then were the respondents who were not highly annoyed.

Fifty one percent more of the highly annoyed described their neighborhoods as noisy places to live, 26% fewer rated their neighborhoods as good or excellent places to live, 16% more spontaneously mentioned noise as the least liked aspect of their neighborhoods, and 14% more were thinking of moving.

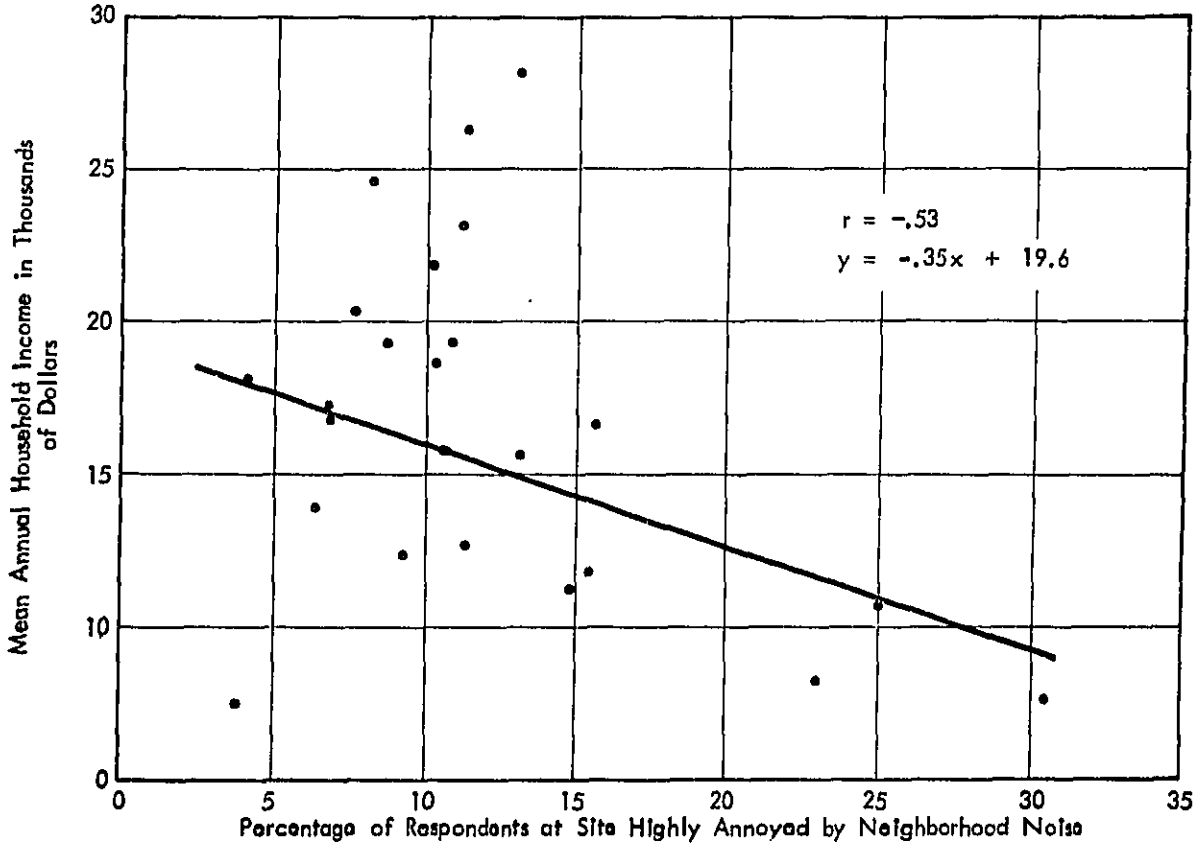

FIGURE III-6. RELATIONSHIP BETWEEN AVERAGE ANNUAL HOUSEHOLD INCOME AND PERCENTAGE OF RESPONDENTS HIGHLY ANNOYED BY NEIGHBORHOOD NOISE AT 24 SITES

III-11 Differences Associated with Startle

Thirteen percent of all respondents reported considerable annoyance from startle or fear produced by neighborhood noises. Their responses are contrasted in this section with those of a subsample of ever-annoyed respondents composed of those who were minimally annoyed by startle or fear (those who reported they were not at all or slightly annoyed) and those who reported no startle or fear at all.

The opinions of respondents who were considerably annoyed by startle and fear differed from those who were not in many ways. Twenty percent more of them thought their neighborhoods were noisy, and 13% more were thinking of moving. Those experiencing considerable annoyance with startle or fear also suffered more from other noise effects: 16% more were highly annoyed by neighborhood noises, 21% more experienced interference with listening, 31% more experienced interference with speaking, 30% more reported sleep disturbance, and 21% more kept their windows shut because of noise. Nineteen percent more felt that noise had affected their health, and 8% more felt that they were more sensitive to noise than most people. In short, these 13% of all respondents represent an extreme subsample both in terms of effects of noise and opinions about exposure.

III-12 Differences Associated with Sleep Disturbance

Twenty one percent of all respondents expressed considerable annoyance from sleep disturbance caused by neighborhood noises. The opinions of these people are contrasted with those who experienced no annoyance or only slight annoyance from sleep disturbance, or whose sleep was not disturbed by noise.

Twenty one percent more of the people considerably annoyed by sleep disturbance considered their neighborhoods noisy, and 17% of them considered their neighborhoods more noisy at night than at other times of day. Eighteen percent more reported that they were more annoyed inside their homes. More of the people who were considerably annoyed by sleep disturbance also heard construction noise (17% more), people's voices (16% more), pets (14% more), and radio and TV sounds (12% more). Fifteen percent more of these people experienced interference with listening, while 20% more experienced interference with speaking. Twenty three percent more reported startle or fear, and 27% more shut their windows to keep out noise. Although 16% more of these considerably annoyed people felt that noise had affected their health, only 1% more had complained to officials. Six percent more of these people felt themselves to be more sensitive than most to noise exposure.

III-13 Differences Associated with Complaints

Nationwide, 9% of all respondents (13% of the ever-annoyed) said they had complained about noise in their neighborhoods. The views of these people are contrasted with those of respondents who had not complained about noise in this section.

Twenty percent fewer of the complainers thought their neighborhoods were good or excellent places to live, and 13% more of them spontaneously mentioned noise as the least liked aspect of their neighborhoods. Thirty two percent more of the complainers rated their neighborhoods as noisy during the previous year, while 57% more were annoyed by neighborhood noise. The intensity of their annoyance was greater as well; 22% more of the complainers were highly annoyed. Nine percent more of the complainers found neighborhood noise more annoying on weekdays than weekends.

Greater percentages of the complainers identified every neighborhood noise source (except for light trucks) as sources of annoyance. These differences, however, were generally on the order of 5%. Similarly, greater percentages of the complainers reported every noise effect: speech interference (8%), listening interference (7%), startle or fear (10%), and sleep disturbance (23%). Eleven percent more of the complainers kept their windows shut because of neighborhood noise.

On average, complainers spent an additional 25 minutes at home weekdays, but 13 minutes fewer on weekends. Twelve percent more of the complainers described themselves as more sensitive than most to noise, while 17% more felt that noise had affected their health. Complainers averaged about 1/2 decile higher on the Duncan Scale of socioeconomic level, and enjoyed about $1000 more annual household income.

III-14 Differences Associated with Sensitivity

Twenty four percent of all respondents judged themselves to be more sensitive to noise than most other people. This section contrasts their opinions with those of the respondents who judged themselves to be about as sensitive or less sensitive than most.

In demographic terms, the respondents who judged themselves more sensitive than most included 7% more women, had an average annual income $1250 higher, and averaged half a decile higher in socioeconomic level than other respondents. Differences in neighborhood satisfaction between the two groups of respondents were minimal. Although only two percent more of the more sen-

sitive respondents judged their neighborhoods to be noisy, 7% more had been annoyed by neighborhood noise. Eight percent more of the more sensitive respondents found neighborhood noise more annoying on weekdays than on weekends. Nine percent more of the more sensitive respondents were unable to distinguish whether neighborhood noise was more bothersome inside or outside the house. More of the more sensitive respondents identified all neighborhood noise sources (except automobiles and small trucks) as annoying. These differences, however, were relatively small (on the order of 5%).

Perhaps the greatest differences observed were in susceptibility to noise effects. Eleven percent more of the more sensitive respondents reported listening interference, 18% more reported startle or fear, 6% more reported sleep disturbance, 8% more reported speech interference, and 11% more reported keeping windows shut because of neighborhood noise. Seven percent more of the more sensitive respondents reported complaining about noise.

III-15 Differences Associated with Self Rated Health Effects

Five percent of all respondents thought that noise in their neighborhoods had affected their health in some way. This section contrasts their opinions with the 95% of the respondents who did not think noise had affected their health.

It is clear that the health-affected respondents are an extreme group: 28% more of them experienced interference with listening, 31% more suffered sleep disturbance, 36% more experienced speech interference, and 29% more shut their windows to keep out neighborhood noise. Twenty percent more had complained

about noise, and 22% more felt more sensitive to noise than most people.

Larger percentages of the health-affected respondents reported various neighborhood noise sources as annoying: these included construction noise (7% more), people's voices (11% more), radios or TV sets (16% more), sports cars (13% more), small trucks (10% more), large trucks (14% more), constant traffic (14% more), and so forth.

Although 23% fewer of the health-affected viewed their neighborhoods as good or excellent places to live, 19% fewer were considering moving within the year. Forty two percent more of the health-affected thought their neighborhoods were noisy, and 48% more had been bothered or annoyed by noises in their neighborhoods. The health-affected respondents had no clear concensus on the time of day or season of the year when noise was more annoying, nor on whether noise was more annoying indoors or outdoors.

III-16 Differences Associated with Duration of Exposure to Neighborhood Noise

This section examines differences observed as a function of duration of exposure to neighborhood noise. In Part 1, comment is made on differences associated with short vs. long daily exposure. In Part 2, comment is made on differences associated with short vs. long duration of residence.

1. Daily Exposure

All respondents were divided into two groups: those who spent 20 or more hours at home daily, and those who spent

14 or fewer hours at home daily. This division corresponded to approximately $\pm$ .5σ from the grand mean for all respondents (17 hours) spent at home daily.

Four times as many women as men spent more time at home (81% vs. 19%). Five to ten percent more of the respondents who spent more time at home experienced all of the noise effects (speech and sleep interference and fear or startle). Greater percentages of these respondents (about 6% more on average) also reported hearing most of the noise sources. The respondents who spent more time at home tended to be of slightly lower socioeconomic level (about half a decile, on average).

Understandably, more of the respondents who spent less time at home found noise in the mornings and evenings to be more annoying than at other times of day, and noise inside the house to be more annoying than outside the house. Most of the above differences in extensity were relatively small (on the order of 10% or less). Differences in intensity of opinions were even smaller, rarely exceeding 0.3 of a response category.

2. Duration of Residence

The overall distribution of respondents' duration of residence is seen in Figure III-7; an exponential fit to the distribution is remarkably good. All respondents were divided into two groups: those who had lived in their neighborhoods for six months or less, and those who had lived in their neighborhoods for five years or more. Because only 2% of the sample fell into the former category, the reliability of comparisons between the two categories of respondents is poor.

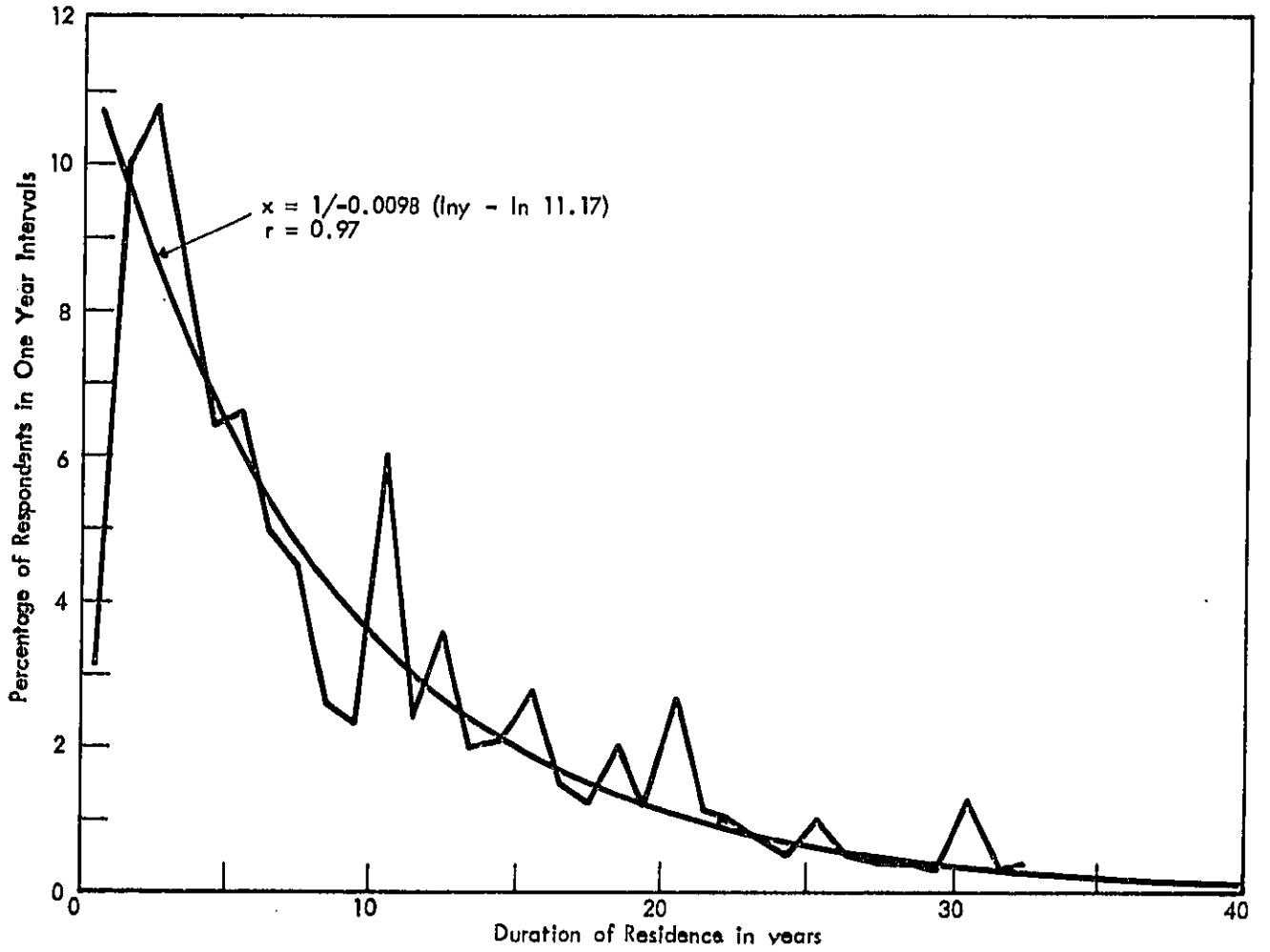

FIGURE III-7. DISTRIBUTION OF DURATION OF RESIDENCE OF RESPONDENTS

Thus, it is not surprising that there is no clear trend of differences apparent in comparisons of response patterns for the two groups. New residents of a neighborhood tended to differ from long term residents considerably in which noise sources they heard and found annoying; they reported more construction noise, pets, airplanes, helicopters, power garden equipment, specific vehicles, and miscellaneous sources, but fewer peoples' voices, radios and TVs, and less motor vehicle noise in general.

No generalization about sensitization vs. habituation to neighborhood noise sources seems to be supportable on the basis of differences observed between the two groups. Although differences in intensity of annoyance produced by various sources were relatively large (approaching a full category on a five point scale in some cases), they were inconsistent in direction. Similarly, there were sizeable differences but no consistent trends in reported effects of noise. For example, twenty three percent more of the newcomers reported having been annoyed by noise in their neighborhoods, but nine percent fewer reported interference with listening to TV and radio.

III-17 Noise Sources

A. Prevalence of Sources

Questions 19-34 posed the question "Over the past year have you heard ... in your neighborhood?" for major community noise sources. Respondents who had heard one of these sources were asked to rate how annoying the source had been over the year on a five-point adjective scale. Table III-4 rank orders these noise sources within population density strata. Table III-5 is an overall ranking of noise sources that affect the

TABLE III-4

RANK ORDER OF SOURCES BY PERCENT HIGHLY ANNOYED

$\rho \leq 3{,}000$ (37%)				$3{,}000 < \rho < 20{,}000$ (51%)				$\rho \geq 20{,}000$ (12%)			
Rank		%H.A.	Avg. % Std.Dev.	Rank	Source	%H.A.	Avg. % Std.Dev.	Rank	Source	%H.A.	Avg. % Std.Dev.
1	Motorcycles	9.4	2.9	1	Motorcycles	13.2	6.6	1	Motorcycles	12.7	4.1
2	Helicopters	5.3	3.8	2	Large Trucks	10.0	12.1	2	Autos	9.4	4.7
3	Autos	4.2	3.1	3	Autos	7.4	5.8	3	Large Trucks	7.3	5.6
4	Construction	3.7	2.2	4	Construction	7.2	9.0	4	Construction	6.5	3.4
5	Airplanes	3.2	3.5	5	Sport Cars	7.0	4.3	5	Sport Cars	5.9	4.7
6	Sport Cars	3.1	2.9	6	Constant Traffic	5.5	6.1	6	Constant Traffic	4.7	5.6
7	Large Trucks	2.6	0.8	7	Small Trucks	4.1	4.0	7	Buses	4.7	3.5
8	Power Garden	1.8	1.1	8	Buses	3.5	4.4	8	Small Trucks	4.1	4.0
9	Small Trucks	1.5	1.3	9	Airplanes	3.4	3.8	9	Helicopters	3.9	3.4
10	Constant Traffic	1.5	1.5	10	Helicopters	3.1	3.9	10	Airplanes	3.6	1.4
11	Buses	1.1	1.5	11	Power Garden	2.1	1.6	11	Power Garden	1.2	1.5
L_{dn}		55.9	3.7			62.2	6.1			66.0	3.5

ρ = population density in people per square mile

TABLE III-5

NOISE SOURCES RANKED BY PERCENT
OF URBAN POPULATION HIGHLY ANNOYED

RANK	SOURCE	% H.A.
1	Motorcycles	11.7
2	Large Trucks	6.9
3	Autos	6.5
4	Construction	5.8
5	Sport Cars	5.4
6	Helicopters	4.0
7	Constant Traffic	3.9
8	Airplanes	3.4
9	Small Trucks	3.1
10	Buses	2.8
11	Power Garden Equipment	1.9

urban population, calculated by weighting the responses by the percentage of the total population living in each population density stratum. Table III-6 rank orders other outdoor noise sources mentioned in response to Question 34 by number of occurrences.

B. Relationship Between Source Identification and Level

At each of 23 sites the outdoor noise environment was estimated by making an 8-minute long analog recording once an hour for a full day*. These recordings were processed to yield a time-history plot of the A-weighted noise level. During playback the sources of discrete noise events were identified by listening. Each noise event with peak level 5 dB or more above the total hourly equivalent level for that site for that hour (as determined from digital noise data) was considered to be a noise "intrusion". All intrusions were tabulated by level and source type, with peak levels classified into 5 dB increments and sources categorized as automobiles, trucks, buses, motorcycles, aircraft, sirens or horns, people, animals, mechanical equipment, telephones, radios or stereos, door slams, thunder, or rain. According to this definition, automobile and truck intrusions were observed at all sites; aircraft were observed at twenty two sites; and motorcycles were observed at seventeen sites.

Several physical indices of these noise intrusions were developed from the tabulated data at each site. The two basic indices were the daily number of intrusions by a specific source and the maximum level of the source at any time during the day (i.e., the peak level of the greatest noise intrusion). An energy-averaged peak level (determined by logarithmic addition of

*No such recordings were available at Site 1001.

TABLE III-6

OTHER SOURCES RATED HIGHLY ANNOYING

Rank	Source	No. of Sites	Total Mentions
1	Sirens	8	14
2	Fire Trucks	7	12
3	Ice Cream Trucks	5	6
4	Trash Pickup	4	4
5	Gun Shots	4	4
6	Trains	4	4
7	Burglar Alarms	2	4
8	Auto Horns	3	3
9	Chain Saws	3	3
10	Hot Rods - Drag Racing	2	2
11	Defective Mufflers	1	1
	Defective Pump	1	1
	Refrigerator Truck	1	1
	Air Conditioner	1	1
	Model Airplanes	1	1
	Cement Mix Truck	1	1
	Welding Equipment	1	1

all the peak levels occurring during the day less 10 times the logarithm of the number of these intrusions) was also developed.

A fourth index, partial day-night sound level for noise sources, L_{dnp}, was computed as well. The notation L_{dnp} was used to distinguish the partial L_{dn} values for each source from the total L_{dn} at a site*. The absolute value of the partial day-night level for different sources is relatively unimportant. It suffices for current purposes that the relative magnitude of L_{dnp} be reasonably accurate across sites for each source, so that relationships between response data and L_{dnp} values remain consistent.

For each of the four major intruding sources (aircraft, automobiles, motorcycles and large trucks), a linear regression was

*L_{dnp} was defined as

$$L_{dnp} = 10 \log \left[\sum_i 10^{SEL_{di}/10} + 10 \sum_i 10^{SEL_{ni}/10} \right] - 49.4 \qquad (1)$$

where SEL_{di} and SEL_{ni} are the sound exposure levels of individual events during daytime (7 a.m. to 10 p.m.) and nighttime (10 p.m. to 7 a.m.) periods respectively. These SEL values depend on the duration of the noise intrusion and its distance (level). For point sources traveling in a straight line with a velocity v (in ft/sec) and distance r (in feet) from an observer, the sound exposure level can be approximated by:

$$SEL = L_p + 10 \log \frac{\pi}{2} \frac{r}{v} \qquad (2)$$

The ratio of r to v can be assumed constant for sources at all sites. A factor of two error will result in a difference of only 3 dB. Since the peak level itself is only known to within $\pm$ 2.5 dB, such an error is acceptable. Equations (1) and (2) can be combined to:

$$L_{dn} = 10 \log \left[\sum_i 10^{L_{pdi}/10} + 10 \sum_i 10^{L_{pni}/10} \right] + \qquad (3)$$

$$10 \log \frac{\pi}{2} \frac{r}{v} - 49.4$$

performed with the percentage of annoyed respondents as the dependent variable and the four indices of intrusion as independent variables: the number of noise intrusions (N)*, the maximum peak level during the day (max L_p), the average peak level during the day ($\bar{L}_p$), and the partial day-night level (L_{dnp}). Correlations were calculated for both the percentage of respondents highly annoyed by each source, and the percentage annoyed to any degree by each source. Table III-7 contains only those correlations unlikely to have arisen by chance alone ($p < .05$, n = approximately 20, $r_c >$ approximately 0.4).

As may be seen in Table III-7, the day-night average sound level has a correlation coefficient comparable to or better than that of most other noise measures. Considering the degree of uncertainty associated with the individual L_{dnp} values, a correlation coefficient of the order of 0.5 between annoyance responses and the day-night average level for each source is a useful finding. It suggests that annoyance associated with intrusive noise sources can be related to measurable noise exposure from such sources in the community, even when the magnitude of noise exposure from an intrusive source is below the total L_{dn} for a measurement site.

A ratio of r to v of 1:1 was assumed for present purposes. For typical values for r and v, the partial day-night levels, based only on the peak levels of noise intrusions, are well below the total L_{dn} at each site.

*N is the number of noise intrusions measured during the 24-hour 8-minute samples. The total number of noise intrusions that might have occurred during a full 24-hour day could be approximated by multiplying N by 7.5.

TABLE III-7

CORRELATIONS BETWEEN THE PERCENTAGE OF RESPONDENTS EITHER ANNOYED OR HIGHLY ANNOYED AND VARIOUS NOISE INTRUSION MEASURES FOR INTRUSIVE NOISE SOURCES

RESPONSE INDEX	AIRCRAFT r	AIRCRAFT S_y,%	AUTOMOBILES r	AUTOMOBILES S_y,%	MOTORCYCLES r	MOTORCYCLES S_y,%	TRUCKS (LARGE) r	TRUCKS (LARGE) S_y,%
% Highly Annoyed vs. N	--	--	0.54	4.4	--	--	--	--
vs. $maxL_p$	--	--	--	--	--	--	0.50	8.0
vs. $\overline{L}_p$	--	--	--	--	--	--	0.47	8.2
vs. L_{dnp}	--	--	0.50	4.6	0.52	5.0	0.60	7.4
% Annoyed vs. N	--	--	0.53	10.6	--	--	--	--
vs. $maxL_p$	0.47	8.6	0.45	11.3	--	--	0.54	11.6
vs. $\overline{L}_p$	0.52	8.3	0.52	10.7	--	--	0.53	11.7
vs. L_{dnp}	0.48	8.5	0.67	9.3	0.51	7.6	0.62	10.6
# OF SAMPLES	22		23		17		23	
NUMBER OF NOISE INTRUSIONS	328		2053		73		336	

r = correlation coefficient

S_y = standard error of estimate

III-18 Correlational and Regression Analyses

A. Correlation Matrices

1. Individual Data

The simple (linear) correlations among all respondents' answers to all major questionnaire items were computed as a first step. An alphabetized and cross indexed listing prepared from the correlation matrix is included in Appendix C. Only those coefficients greater than 0.2 in absolute size appear in the listing. All of the coefficients are statistically significant (in the sense that they are extremely unlikely to have arisen by chance alone), primarily because of the very large sample size.

Perusal of this list of correlations yields few surprises: the composition of clusters of related variables (noise sources, attitudes, effects, etc.) are all similar to those predictable from the relationships observed in comparisons of extreme subsamples. Among the demographic variables, for example, population density and income correlated -.30, and age and duration of residence correlated .29. Among the situational variables, noise level correlated .36 with traffic as an identifiable noise source, but -.29 with power garden equipment. Among the attitudinal variables, responses to the ever-bothered question (Q. 13) correlated .50 with responses to the neighborhood noisiness judgment question (Q. 12), while responses to the latter question correlated .42 with the degree of annoyance question (Q. 14).

By themselves, the simple correlations are of little predictive value, since they are all confounded by their large numbers of

significant partial correlations with one another. For example, the observed correlation of .27 in the individual data between responses to the questions "has noise made you keep your windows shut" (Q. 39) and "has noise affected your health" (Q. 45) does not imply any causal relationship. It is not clear from the simple relationship whether the attitude (noise affects health) produces the behavior (keeping windows shut), whether the behavior (keeping windows shut) reinforces the attitude (noise affects health), or whether the degree of association between answers to the two questions is attributable to common associations with one or more other attitudes, behaviors, and/or noise effects.

Policy making agencies are more properly concerned with how their decisions will affect proportions of populations than with the prediction of interrelationships among individual attitudes. Thus, no further efforts were made to interpret the simple correlations among individual intensive variables.

2. Grouped Data

A second set of correlation matrices was therefore computed by grouping respondents within sites. This treatment of the social survey data concentrates on extensity of attitudes and behaviors. The variables of interest in the analyses reported below are therefore percentages of respondents holding common views, rather than the fervor of individual beliefs.

Table III-8 shows the simple correlations among the two major independent variables of this study (noise exposure and population density), three demographic variables (mean age, duration of residence, and annual household income), and three related measures of annoyance, computed site by site for all respondents

TABLE III-8

CORRELATION MATRIX FOR PREDICTION OF ANNOYANCE FROM DEMOGRAPHIC VARIABLES AT 24 SITES

	Population Density (People/mi^2)	% of Respondents at Site Highly** Annoyed	% of Respondents at Site Very Annoyed	% of Respondents at Site Extremely Annoyed	Mean Duration of Residence at Site (Years)	Mean Age of Respondents at Site	Mean Annual Household Income at Site
Noise Level (L_{dn})	0.55	0.71	0.66	0.56	-0.08	0.09	-0.61
Population Density (People/mi^2)		0.62	0.73	0.26	-0.07	0.17	-0.50
Percent of Respondents at Site Highly* Annoyed			0.92	0.74	-0.13	-0.09	-0.50
Percent of Respondents at Site Very Annoyed				0.43	-0.11	-0.02	-0.51
Percent of Respondents at Site Extremely Annoyed					-0.15	-0.14	-0.34
Mean Duration of Residence at Site (Yrs.)						0.63	-0.38
Mean Age of Respondents at Site							-0.06

* The probability that a correlation in this table differs from 0 is greater than .95 if its absolute value is greater than 0.4.

** "Highly annoyed" is a linear combination of "very" and "extremely" annoyed.

at each site. Other demographic variables (such as socio-economic level, time spent at home, and sex ratio) were excluded from this table for a number of reasons: poor correlation with annoyance, high correlation with other demographic variables, or difficulty in assessment. Table III-9 shows the simple correlations among the same independent variables and measures of annoyance, three effects of exposure (speech interference, sleep interference, and startle), and two attitudinal variables (sensitivity to noise and self-rated health effects).

The greater magnitude of the correlations in Tables III-8 and III-9 compared with those in the listing of individual data reflects the truism that groups of people behave more predictably than individuals. The absolute size of the sitewise correlations provides a reasonable basis for the regression analyses discussed below.

B. Multiple Regression Analyses

An aspect of community response to noise exposure of significant interest is the percentage of people highly annoyed by different sources of noise. The present data were analyzed to determine 1) the relationships among a number of attitudinal and situational variables known to be related to annoyance, and 2) the limits of their utility in predicting annoyance. The first two analyses presented are restricted to demographic and situational variables. A third analysis is restricted to noise effects and attitudes. A final analysis mixes the various types of predictor variables.

This analysis was accomplished by stepwise regressions conducted on the data shown in Tables III-8 and III-9. Table III-10

TABLE III-9

CORRELATION MATRIX FOR PREDICTION OF ANNOYANCE FROM ATTITUDINAL VARIABLES AND EXPOSURE EFFECTS

	Population Density	% of Respondents at Site Highly Annoyed	% of Respondents at Site Very Annoyed	% of Respondents at Site Extremely Annoyed	% of Respondents at Site Expressing Sleep Interference	% of Respondents at Site Expressing Speech Interference	% of Respondents at Site More Sensitive Than Most	% of Respondents at Site Expressing Startle	% of Respondents at Site with Self Rated Health Damage
Noise Exposure (L_{dn})	0.55	0.71	0.66	0.56	0.54	0.84	-0.40	0.53	0.39
Population Density		0.62	0.73	0.26	0.31	0.39	-0.36	0.13	-0.04
% of Respondents at Site Highly Annoyed			0.92	0.74	0.72	0.81	-0.20	0.72	0.62
% of Respondents at Site Very Annoyed				0.43	0.55	0.69	-0.23	0.54	0.51
% of Respondents at Site Extremely Annoyed					0.74	0.71	-0.06	0.75	0.57
% of Respondents at Site Expressing Sleep Interference						0.79	-0.09	0.86	0.59
% of Respondents at Site Expressing Speech Interference							-0.25	0.82	0.59
% of Respondents at Site More Sensitive Than Most								0.11	0.06
% of Respondents at Site Expressing Startle									0.64

TABLE III-10

STEPWISE REGRESSION ON PERCENT HIGHLY ANNOYED

USING NOISE LEVEL AS FIRST TERM

VARIABLE	MULTIPLE r	r^2	NON-NORMALIZED COEFFICIENT	F-RATIO
Noise Level at Site	0.69	.48	0.7192	4.66
Average Age at Site	0.70	.49	-0.1218	.10
Average Annual Household Income at Site	0.71	.50	-0.3287	.56
Average Duration of Residence at Site	0.71	.50	-0.2086	.16

Standard Error: 6.1

Variance Accounted For: 50.9%

Prediction Equation:

% Highly Annoyed = .7192 (L_{dn})

- .1218 (mean age at site)

- .3287 (average household income at site)

- .2086 (average duration residence at site)

+ constant (18.53)

displays a stepwise regression of noise level, mean age, mean household income, and mean duration of residence on the percentage of highly annoyed respondents at the twenty four sites. The preponderance of variance accounted for b- the regression is due to the first term, noise exposure. In fact, the multiple correlation accounts for only 3% more variance than the simple correlation between noise exposure and annoyance. Thus, for most practical purposes, the percentage of respondents at a site highly annoyed by noise exposure can be predicted from exposure information simply by the relationship seen in Figure III-2.

Table III-11 displays a stepwise regression of population density, mean household income, mean duration of residence, and mean age on the percentage of highly annoyed respondents at the twenty four sites. Once again, the first variable contributes the major portion of variance accounted for, although the additional variables do account for an additional 11% of the total variance.

Table III-12 displays a stepwise regression of percentages of respondents at each site reporting speech interference, sleep interference, and startle on the percentage of respondents highly annoyed at each site. Speech interference, with the highest simple correlation with annoyance, was the first term in the regression, and accounted for virtually all the variance not attributable to error. Thus, subsequent terms are absent, since they would have contributed only trivial additional predictive power.

Similar analyses were also undertaken to predict the proportion of a community describing itself as "very" and "extremely" annoyed. The results closely paralleled those reported here, but accounted for slightly less variance. Restricting the

TABLE III-11

STEPWISE REGRESSION ON PERCENT HIGHLY ANNOYED

USING POPULATION DENSITY AS FIRST TERM

VARIABLE	MULTIPLE r	r^2	NON-NORMALIZED COEFFICIENT	F-RATIO
Population Density	0.61	.37	0.0002	3.10
Average Annual Household Income at Site	0.65	.42	-0.5745	2.09
Average Duration of Residence at Site	0.69	.48	-0.3617	0.49
Average Age at Site	0.69	.48	-0.0852	0.04

Standard Error: 6.3

Variance Accounted For: 48%

Prediction Equation:

% Highly Annoyed = .0002 (thousands of people per square mile)

-.5745 (mean household income at site)

-.3617 (mean duration of residence at site)

-.0852 (mean age at site)

+ constant (26.49)

TABLE III-12

STEPWISE REGRESSION ON PERCENTAGE HIGHLY ANNOYED PERMITTING NOISE EFFECTS AND ATTITUDINAL VARIABLES

VARIABLE	MULTIPLE r	r^2	NON-NORMALIZED COEFFICIENT	F-RATIO
Speech Interference	.81	.66	.5712	10.46
Sleep Interference	.83	.69	.1348	1.15

Standard Error: 4.5

Variance Accounted For: 69%

Prediction Equation

% Highly Annoyed = .5712 (% reporting speech interference)
+ .1348 (% reporting sleep interference)
+ constant (1.037)

range of noise exposure to those sites with L_{dn} values below 65 dB similarly affected the results only slightly.

A final stepwise regression is seen in Table III-13, in which all predictor variables were permitted. The first three variables (percentage of respondents reporting speech interference, population density, and percentage of respondents believing that noise had damaged their health), all surrogates for noise exposure per se, have a multiple r of 0.95 with the percentage of respondents highly annoyed. These three variables thus account for fully ninety percent of the variance in the annoyance data.

III-19 Critical Level Analysis

A recurring problem in a comprehensive noise abatement program is the definition of a level of community noise that represents a serious disamenity for neighborhood residents. Efforts to determine whether such "critical levels" are identifiable are reported in this section. The underlying strategy in the following analyses is to search for systematic trends in response data arranged along a continuum of increasing noise exposure.

The first step in the search for critical levels that may be inherent in the data was to tabulate noise-reaction data along the continuum of exposure as is done in Table III-14. This informal exploration showed that while respondents at the noisiest sites generally exhibited more extensive and intensive reactions to noise than those at the quietest sites, the progression along the noise continuum was not smooth. This implied that critical levels (underlying discontinuities) would be difficult to detect visually in curves plotted from these data.

It was also observed, however, that respondents at the three noisiest sites exhibited markedly more numerous and vigorous

TABLE III-13
STEPWISE REGRESSION ON PERCENT HIGHLY ANNOYED PERMITTING ALL VARIABLES

VARIABLE	MULTIPLE r	r^2	NON-NORMALIZED COEFFICIENT	F-RATIO
Speech Interference	.81	.66	.3086	12.12
Population Density	.89	.79	.00024	44.106
Has Noise Affected Health? (Q. 45)	.95	.904	.86155	21.941

Standard Error = 2.5

Variance Accounted For = 90.4%

Prediction Equation:

% Highly Annoyed at Site = .3086 (% reporting Speech Interference)
+ .00024 (population density)
+ .86155 (% reporting health effects of noise)
+ constant (.48332)

TABLE III-14. SUBJECTIVE REACTIONS BY NOISE LEVEL AT 24 SITES

			Q. 12	Q. 14		Q. 44		Q. 45	Q. 35		Q. 38	
			% THINK NOISY	% ANNOYED		SENSITIVE TO NOISE			INTERFERED w/LISTENING		INTERFERED w/TALKING	
	SITE	L_{dn}	AT ALL	VERY OR EXTREMELY	EVER	HIGHLY	% MORE	% LESS	% BELIEVE HEALTH AFFECTED	% EVER	% HIGHLY ANNOYED	% EVER	% HIGHLY ANNOYED
Group 1	0005	51.1	5	0	47	20	36	28	3	3	3	7	1
	1505	53.6	8	3	35	19	16	31	0	7	4	7	2
	1501	54.3	14	1	40	17	27	32	0	4	1	7	2
	1502	54.8	20	7	36	20	27	41	3	13	4	11	5
	1503	56.1	13	4	54	23	33	35	3	6	1	13	3
	1608	56.1	18	3	22	17	37	24	9	13	4	11	4
	1609	56.6	11	8	21	20	44	15	4	8	2	9	4
	1601	57.6	36	12	35	26	28	28	8	23	11	21	12
	1607	59.1	29	4	34	22	22	25	5	7	1	13	5
	0404	60.2	14	0	23	17	11	20	3	9	2	6	3
	0007	60.8	47	22	61	41	21	34	11	28	16	15	5
	0106	61.9	38	13	44	30	22	35	3	31	17	16	6
	0403	62.3	14	3	25	16	28	28	1	13	3	9	3
	1005	62.4	28	7	52	33	23	34	4	30	5	13	7
Group 2	0105	62.7	57	7	46	34	17	40	3	19	12	12	4
	0503	62.7	28	17	47	33	24	46	4	21	8	21	6
	0506	64.3	51	31	50	41	17	54	14	19	9	16	7
	0104	64.5	37	12	47	33	20	32	6	22	11	16	7
Group 3	1001	67.3	33	17	41	26	23	23	0	20	11	14	6
	0511	68.9	45	20	57	46	21	53	5	22	11	24	13
	0502	69.0	28	11	41	21	20	53	6	19	10	17	11
	0008	70.6	56	25	69	53	34	26	9	31	12	33	11
	1003	71.1	51	26	52	37	28	23	6	30	6	26	12
	0006	72.8	51	30	71	46	22	42	13	37	19	42	26

TABLE III-14 (CONT'D). SUBJECTIVE REACTIONS BY NOISE LEVEL AT 24 SITES

			Q. 37		Q. 36		Q. 39		Q. 40	Q. 10	Q. 4	Q. 10	Q. 51	Q. 52
			DISTURBED SLEEP		STARTLED OR FRIGHTENED		KEPT WINDOWS CLOSED			CAT. 1		CAT. 2		
	SITE	L_{dn}	% EVER	% HIGHLY ANNOYED	% EVER	% HIGHLY ANNOYED	% EVER	% HIGHLY ANNOYED	% COMPLAINED TO OFFICIALS	% THINKING OF MOVING FOR NOISE	% THINK NEIGHBORHOOD POOR	% THINK MOVING (NON-NOISE)	AVERAGE INCOME (K$)	SOCIO-ECONOMIC DECILE
GROUP 1	0008	70.6	53	29	41	21	39	22	11	3	19	36	8	6.2
	1003	71.1	31	13	26	12	33	16	5	8	4	21	8	6.2
	0006	72.8	54	43	30	22	38	27	17	3	6	32	11	7.0
GROUP 2	1001	67.3	30	11	8	4	23	8	5	0	0	25	8	7.9
	0511	68.9	34	25	22	14	36	18	10	0	23	26	5	3.4
	0502	69.0	19	12	10	9	22	12	6	0	4	18	13	6.5
GROUP 3	0105	62.7	26	14	19	12	19	7	8	3	29	26	5	4.1
	0503	62.7	20	14	19	12	19	8	5	1	21	76	9	5.4
	0506	64.3	29	25	19	10	17	9	6	0	35	68	9	5.0
	0104	64.5	24	22	13	10	18	10	14	1	9	10	9	5.0
	0404	60.2	4	1	4	1	7	1	3	0	6	12	5	3.3
	0007	60.8	39	24	33	21	30	17	9	5	9	21	8	6.2
	0106	61.9	31	20	22	15	35	16	13	0	8	21	10	5.1
	0403	62.5	8	5	9	4	11	3	2	0	0	10	11	1.7
	1005	62.4	40	19	27	5	21	11	16	0	4	17	11	7.1
	1503	56.1	30	16	15	6	19	10	10	0	4	19	17	7.7
	1608	56.1	15	7	12	3	10	3	7	0	0	12	17	7.7
	1609	56.6	15	7	10	3	12	6	5	0	0	9	25	7.7
	1601	57.6	24	18	17	8	22	12	9	3	2	18	14	8.0
	1607	59.1	21	12	23	4	19	4	8	1	1	11	25	7.7
	1505	53.6	23	14	12	6	15	8	5	0	1	16	15	7.1
	1501	54.3	15	10	12	4	13	4	3	0	0	8	16	6.9
	1502	54.8	22	8	17	3	17	6	9	0	4	15	15	7.2
	0005	51.1	23	16	14	4	11	6	9	8	0	8	22	8.5

reactions than did respondents at the other 21 sites. Furthermore, it appeared that reactions at these three sites resembled one another more consistently than did reactions at other sites. It was therefore hypothesized that these three sites were distinguishable from all of the others. If this hypothesis were true, and if enough information about reactions to noise exposure greater than 70 dB were available to permit stable estimates, then a distinct upturn in most noise reaction curves might be evident at L_{dn} values in excess of 70 dB.

To test the hypothesis that 70 dB(A) on the L_{dn} scale represents a critical level at which the relation between sound levels and noise related reactions are intensified, a number of statistical tests based on the binomial sampling distribution were devised. Three groups of sites were formed: Group 1, with a mean L_{dn} of 71.5 dB; Group 2, with a mean L_{dn} of 68.4 dB; and Group 3, with a mean L_{dn} of 63.6 dB.

As an initial test, seventeen measures of noise reactions were considered. These measures, derived from the social survey data on a site-by-site basis, appear in the leftmost column of Table III-15. Part A of Table III-15 contains scores for ten measures of the extent of noise reactions (e.g., percentage of respondents at a site whose sleep was ever disturbed by neighborhood noise during the previous year). Part B of Table III-15 contains seven measures of the intensity of noise reactions (e.g., the percentage of respondents who were highly annoyed at having their sleep disturbed.

The three sites in each of Groups 1 and 2 allowed nine intercomparisons for each of the ten extensity measures and seven

TABLE III-15

NUMBERS OF TIMES GROUP 1* VALUES DIFFER FROM GROUP 2* VALUES, AND GROUP 2 VALUES DIFFER FROM GROUP 3* VALUES IN THE PREDICTED DIRECTION ON MEASURES OF NOISE EFFECTS

		PREDICTED DIFFERENCES	
A.	MEASURES OF EXTENT OF NOISE EFFECTS	GROUP 1 re GROUP 2	GROUP 2 re GROUP 3
	% think neighborhood noisy	9	1
	% ever annoyed with neighborhood noise	8	3
	% believe health affected	8	2
	% ever interfered with listening	9	3
	% ever interfered with talking	9	6
	% ever disturbed sleep	8	6
	% ever startled or frightened	9	3
	% ever kept windows closed	8	9
	% complained to an official	6	2
	% thinking of moving because of noise	9	0
	Total predicted differences	83	35
	Percent of 90 possible differences	92	38
	Number of tied differences	2	8
B.	MEASURES OF INTENSITY OF NOISE EFFECTS		
	% think neighborhood very (or extremely noisy	9	4
	% highly annoyed with neighborhood noise	7	3
	% highly annoyed with listening interference	6	5
	% highly annoyed with talking interference	6	7
	% highly annoyed with sleep disturbance	8	2
	% highly annoyed with startle or fright	8	3
	% highly annoyed with keeping windows closed	8	7
	Total predicted differences	52	31
	Percent of 63 possible differences	83	49
	Number of tied differences	2	4

*Group 1: three noisiest sites, mean L_{dn} = 71.5 dB
Group 2: three next noisiest sites, mean L_{dn} = 68.4 dB
Group 3: three next noisiest sites, mean L_{dn} = 63.6 dB

intensity measures, for a total of 153 intercomparisons. The number of times the values of these measures for each of the three noisiest sites (Group 1) exceeded the corresponding values for the three sites immediately below 70 dB(A) (Group 2) is tabulated in the middle column of Table III-15. For each of the 17 measures, Group 1 values exceed Group 2 values in six or more of the nine possible pairings. This finding establishes that reactions to noise are stronger in Group 1 than in Group 2.

A second test was devised to establish a discontinuity or critical level: a third group was created to serve as a comparison for Group 2.*

The same scoring conventions were then applied. The resulting scores are shown in the rightmost column of Table III-15. On measures of extent, Group 2 exceeds Group 3 only three times of a possible ten, and on measures of intensity, three times of a possible seven. Although the average L_{dn} is 3.1 dB(A) higher in Group 2, noise related reactions seem weaker than in Group 3.

If 70 dB(A) constitutes a critical level, one could predict that Group 1/Group 2 scores would be higher than Group 2/Group 3 scores. In actuality, for extensity measures Group 1/Group 2 scores exceed Group 2/Group 3 scores nine out of ten times and for intensity measures six out of seven times. This result -- 15 of 17 confirmed predictions -- would happen by chance alone

*When the seventh, eighth, and ninth noisiest sites were examined, a tie was found for ninth place. The tie was resolved by averaging the two values of the pair.

only once in a thousand times, according to the binomial sampling distribution. The greater disparity between Groups 1 and 2 than between 2 and 3 is also indicated by the finding that there were four ties between the first two pairs and 12 between the last two. Ties may be considered symptomatic of ambiguous relations.

It therefore appears that reactions to noise exposure in excess of L_{dn} values of 70 dB differ qualitatively from reactions to lesser exposures. In other words, the pervasiveness and strength of people's reactions to noise may grow more rapidly at exposure levels in excess of L_{dn} values of 70 dB than they do at slightly lower levels. Although the evidence for a discontinuity in reactions to exposure at this point is not as strong as might be desired, it seems worthy of serious consideration. It is unlikely that the present data (which include few sites with L_{dn} values greater than 70) would support more intensive analyses of this sort, however.

III-20 Relationship Between Noise Levels, Annoyance, and Time of Day

This section explores the relationship between annoyance and noise exposure as a function of time of day. The annoyance information considered was the distribution of respondents who indicated noise was more annoying at one time of day (Q. 15, "Is noise in your neighborhood more annoying at one time of day than another?"). The noise exposure information was derived from continuous digital records of exposure divided into "morning", "afternoon", "evening", and "night" periods in accordance with common practice (0800-1200, 1300-1900, 2000-2200, and 2300-0700, respectively).

a. Social Survey Data

Seventy one percent of the ever-annoyed respondents (about one-third of all respondents) indicated that noise was in fact more annoying at one time of day than another: 14%, 20%, 31%, and 35% thought noise was more annoying in the morning, afternoon, evening, and night, respectively. The distribution of numbers of respondents more annoyed at the various times of day differed significantly from a chance distribution ($\chi^2_{3df} = 64.69$, $p < .01$) because morning and afternoon periods were under-represented with respect to evening and night.

It would appear from this observation alone that neighborhood noise during the evening and night annoys people more than it does during the day. This observation is hardly conclusive, however, since it ignores the distribution of people at home at different times of day. As observed earlier, there are marked demographic differences (primarily number, age and sex) in neighborhood populations during the day and night that could be equally responsible for the differences in annoyance at different times of day.

b. Noise Exposure Data

Mean values of four measures of noise exposure (L_1, L_{eq}, L_{99}, and σ) at all 24 sites are shown in Figure III-8 as a function of time of day. There are no meaningful differences among any of these mean values between morning and afternoon periods. All four measures dropped uniformly at night, however: the peak (L_1) by 8.6 dB, the energy mean (L_{eq}) by 7.8 dB, the minimum (L_{99}) by 4.5 dB, and the standard deviation (σ) by 1.1 dB, relative to their daytime values.

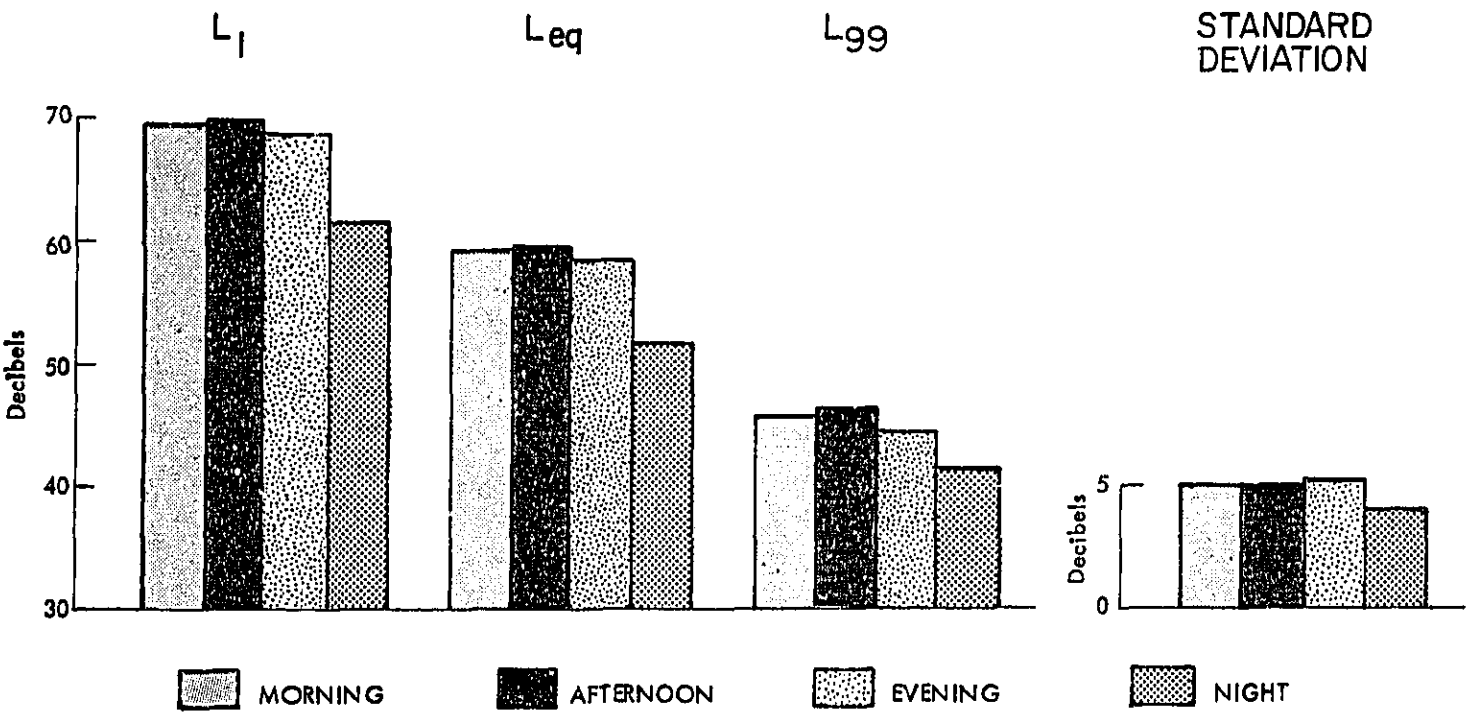

FIGURE III-8. MEAN VALUES OF NOISE LEVELS AT 24 SITES AS A FUNCTION OF TIME OF DAY

c. Relationship Between Social and Physical Measures

Two major observations may be made about the relationship between the two types of information. First, it must be noted that the differences in percentages of respondents expressing greater morning or afternoon annoyance is not reflected in any gross physical measure of exposure. If these respondents are therefore combined into a "daytime" annoyance category, the resulting distribution of numbers of respondents in the three categories "daytime", "evening", and "night" is highly likely to have arisen by chance alone ($\chi^2_{2df} = 1.2$, $p = .5$); i.e., equal numbers are more annoyed in each time period.

Second, it should also be noted that these equal numbers were more annoyed during time periods of unequal duration, and despite the fact that exposure levels at night were appreciably lower than at other times of day. If annoyance per unit time is considered, the evening period (only three hours long) produces the greatest excess of annoyance. If annoyance per decibel of exposure is considered, the night period (with levels about 7 or 8 dB lower than the day) produces the greatest excess of annoyance. The current data provide few grounds for preferring one of these viewpoints to the other.

III-21 Differences Associated with Mode of Interviewing

Both personal (face-to-face) and telephone interviews were conducted at four sites. This section examines some differences in response patterns observed in the two types of data.

One way to compare the response patterns is to correlate mean intensity scale values obtained by the two procedures. Figure III-9 is a geometric interpretation of such a comparison.

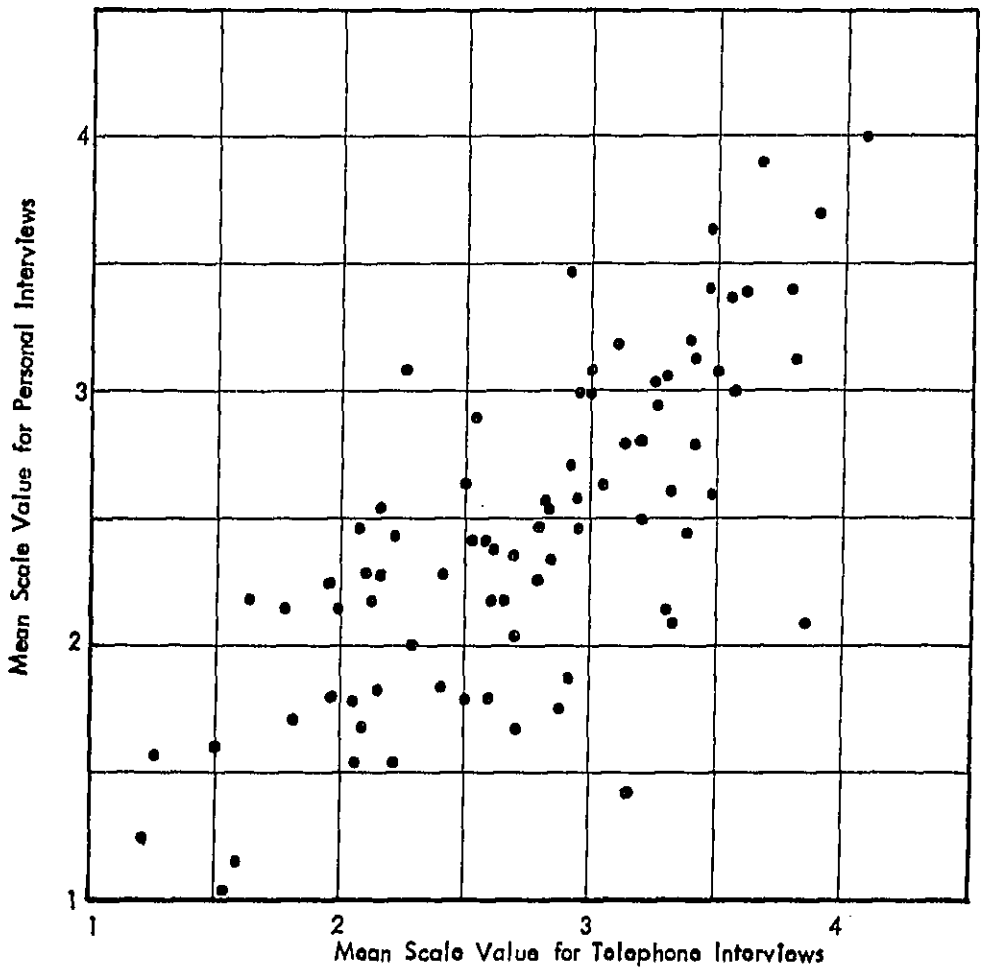

FIGURE III - 9. RELATIONSHIP BETWEEN MEAN INTENSITY OF RESPONSES TO QUESTIONS 19-39 ON FIVE POINT ADJECTIVE SCALE AT FOUR SITES AT WHICH TELEPHONE AND PERSONAL INTERVIEWS WERE CONDUCTED

Points on the plot are for questions 19-39 at the four sites. The two dimensional space in which they are plotted represents mean intensity scale values obtained by telephone and personal interviews. If the two methods yielded identical data, all of the points would fall along the positive diagonal.

The overall mean difference for all data was 0.19, or one fifth of a response category on a five point scale. The overall product moment correlation was .73, which accounts for over half of the variance. Although these comparisons were possible for only 200 personal interviews and 300 telephone interviews, it is unlikely that data from larger numbers of personal interviews would substantially change this relationship, beyond increasing precision.

No overall pattern of differences between the two sorts of data was apparent for substantive questions. The telephone interview data showed higher percentages of respondents reporting certain attitudes, effects and noise sources, while the personal interview data showed higher percentages of respondents reporting other attitudes, effects, and noise sources. To place this difference in perspective, it should be noted that this variation was of no greater magnitude than that observed between the telephone data sites of similar population density and noise exposure.

III-22 Discussion of Sampling Bias

Cross-indexed ("reverse") telephone directories were used as sampling frames at all twenty four sites. The degree to which samples obtained from such directories are representative of the communities for which they are prepared, and the degree to

which departures from representativeness affect inferences drawn from the current data, are examined in this section.

For current purposes, the fundamental issue in assessing sampling bias is whether the assumption of equal probability of inclusion in the sample of all members of the target population (English speaking adults) has been seriously violated. The most likely way for this to have occurred is by systematic exclusion of certain groups of people; i.e., those whose names fail to appear in the cross-indexed directories for various reasons. In order of estimated size, these generally include the following groups:

1) Telephone subscribers with unlisted numbers.

The proportion of subscribers with unlisted numbers probably varies widely with population density (i.e., lifestyle). In some urban areas, estimates of the ratio of unlisted to listed numbers are as high as 1:3 (Trendex, 1976).

2) Telephone subscribers with listed numbers too recent for inclusion in directories.

The proportion of subscribers in this group varies with the size and stability of a community. Newcomers to neighborhoods (people establishing households since publication of the latest directory) and transients (people who move often) are the most obvious members of this group. In fact, only 35 respondents in the current survey had lived at their current addresses for six months or less.

3) Non-subscribers.

Telephone subscription in urban America appears to be near universal except among persons of extremely low income. These include most notably non-English speaking ethnic minorities and the elderly.

In addition, a fourth class of people who may be under or over represented must be considered, for reasons not directly related to particular sampling frames. These are people who by virtue of time spent at home or social custom are differentially available for interviewing.

4) The often or rarely at home.

Differences in time spent at home are most strongly related to sex, employment, and age: housewives and the elderly are demonstrably more available for interviewing than young and working people. Systematic inclusion or exclusion of people in these four groups may produce sampling biases, whose effects on inferences drawn from interview data are usually assessed under worst-case assumptions. Thus, it is commonly assumed that all members of a mis-represented class share a common view opposite to that expressed by the population actually sampled. If observed differences, after adjustment for assumed biases, are still of significant magnitude, it is concluded that bias attributable to sampling would not affect conclusions.

Since the above four groups of people were identified in advance of data collection as likely to be under-or over represented in the current sample, measures were taken to minimize biases resulting from such deviations from representativeness.

For example, telephone interviewing was undertaken in urban and suburban areas with uniformly high subscription rates. As recent demographic studies of unlisted numbers have shown (Trendex, 1976), it is not simply the wealthy and well known who have unlisted telephones; persons with unlisted numbers are more likely to be younger, single, blue-collar, modestly educated, non-white, and have slightly lower incomes than people with listed telephone numbers. Thus, it appears doubtful that the target population was socioeconomically misrepresented in the current study solely as a function of the sampling frame.

To minimize sampling bias due to misrepresentation by age and sex, a counterbalanced schedule for identifying potential respondents within households was used. Had it not been used, the sample would have included even fewer men than it did.

In most cases, the magnitudes of potential worst case biases attributable to sampling appear quite small. For example, although women are disproportionately numerous in the present sample (there are about 10% more women in the sample than in the adult American population), the opinions of women as a group differed very little from those of men as a group. Thus, if the sample had contained 10% more men, all of whose opinions were similar to those expressed by the 762 male respondents, the net change in mean values for substantive questions would have been negligible.

Furthermore, it is not clear that over-representation of women in the present sample should be regarded as a bias. As the data show, women spend an average of 3.5 hours more time at home than men on weekdays and weekends both. Since their exposure and knowledge about neighborhood noise is greater, their

opinions about it may be correspondingly more accurate. Similarly, it would be difficult to construe over-representation of long term residents as a serious bias for present purposes, since such people would clearly be more familiar with the local noise environment than newly-arrived residents.

Another potential source of bias is non-response. This form of bias is usually assessed in terms of the percentage of respondents in the sample that contributed data to a survey. Response rates in excess of about 80% are usually regarded as good or excellent, while rates below 60% are usually viewed as suspiciously poor.

The percentage of respondents in the current sample that completed the interview varied from site to site. Table III-17 contains completion rates averaged over sites within cities. The overall completion rate (weighted by numbers of respondents at each site) was 70%. The bulk of the non-completions were attributable to failures to contact potential respondents, rather than refusals to answer questions.

Difficulties had been anticipated in contacting a mobile urban population; however, available resources permitted only four callbacks at different times of day. Thus, although a higher response rate would have been desirable (and probably achievable with greater resources), the 70% overall rate was adequate for present purposes.

TABLE III-17
INTERVIEW COMPLETION RATES BY CITIES

CITY	COMPLETION RATE (PERCENT)
Atlanta	78
Boston (Telephone)	74
Boston (face-to-face)	73
Chicago	71
Los Angeles (Telephone)	66
Los Angeles (face-to-face)	76
San Francisco	57
Seattle	70
Washington	70
Weighted mean completion rate	70%

IV. DISCUSSION

IV-1 On the Validity and Reliability of the Data

The overwhelming impression gained from a detailed examination of the interview data is of consistency. Sizeable correlations in the directions dictated by common sense are found among all the major variables (noise exposure, population density, annoyance, speech and sleep interference, etc.). People who described their neighborhoods as quiet suffered fewer noise effects and identified fewer sources; people who had never been annoyed by noise clearly valued the quiet nature of their neighborhoods; filers of noise complaints thought they lived in less pleasant neighborhoods; people who thought they were more sensitive to noise or spent more time in their neighborhoods suffered more from noise effects and were more alert to noise sources; and so forth. Significant counterexamples are absent.

It is also apparent that respondents gave serious consideration to the questions asked them by the interviewers. Apart from the coherence and interpretability of the answers, this can be seen most clearly in responses to the dichotomous (yes/no, quiet/noisy, noise/no-noise) questions. Proportions of respondents answering these questions in the two available response categories are compared in all data tabulations with proportions that would be expected by chance alone. If respondents had answered these questions frivolously or randomly, equal numbers of respondents in each category might have been expected. In fact, enormous departures from chance responding are uniformly found in all cross-tabulations. These observations strongly suggest that meaningful inferences may be drawn from the present data.

IV-2 On the Predictability of Annoyance

A. Magnitude of Correlation

The strength of the relationships between annoyance and noise exposure, population density, and speech interference are among the most striking findings of the current study. The correlation coefficients reported in Section III-18, and particularly the multiple correlations of Table III-13, are so much higher than those reported by other researchers (e.g., Tracor, 1971) that they demand closer scrutiny. In particular, a number of potential explanations for the disparity in size of correlations deserve discussion.

Perhaps the most fundamental difference between UNS and prior noise surveys (e.g., Borsky, 1965; Grandjean, 1973; MIL Research, Ltd., 1971; etc.) that could account for the improved correlation is the nature of the noise exposure under study. Most earlier research concentrated on aircraft noise, while UNS specifically avoided such exposure. It may be that aircraft noise exposure is a special case in which annoyance is either "saturated", or not strongly related to level alone (cf. Rylander et al., 1972). In the more general case of urban noise, the relationship may simply be far stronger.

Other differences between UNS and prior work readily come to mind as well. The current correlations were developed over a 20 dB range of noise exposures and a wide range of population densities, whereas most prior studies were greatly restricted in this regard. Furthermore, most prior studies were directed to discrete (transportation) noise sources rather than the entire community noise environment.

On a more technical level, it seems likely that physical measurements of noise exposure in the current study may have provided more reliable estimates of environmental noise levels than those available in the past. The selection of interviewing sites on the basis of accurate measurements, the use of automated instrumentation, the measurement of variability of noise levels at multiple positions within sites, and similar careful procedures yielded noise level information of a precision far higher than that generally available in prior studies.

One indication of the quality of the noise measurements of UNS is their stability over time. The product-moment correlation coefficient between the two sets of L_{dn} measurements made approximately one year apart at the 24 sites was 0.88. No significant differences were found between measurements at the same site by t-test ($t_{23\ df} = .11$). Indeed, the mean difference in L_{dn} values between the two sets of measurements was only 1 dB!

Another possible source of the disparity in magnitude of correlation between UNS and earlier work is the nature of the annoyance measure. Rather than constructing an indirect index of annoyance, inferred from responses to noise-effects questions by factor analytic techniques, the current study sought to measure annoyance through direct questioning. Thus, the regression equation that uses only three variables to account for over 90% of the variance in annoyance in the present data predicts respondents' self rated annoyance, *not* a complex structure of assumed attitudes.

It should also be noted that the large observed correlations are for measures of the extent of annoyance in a community, not for the degree of an individual's beliefs. This measure of

extensity is quite robust, in the sense that it is insensitive to the proportion of the population to be predicted. For instance, the correlation of mean annoyance in a community with exposure level is only trivially smaller than the correlation of high annoyance with exposure level.

The least likely explanation for the high correlation between annoyance and noise reported here is sampling error. Although it is true that the lower bound of the 95% confidence limit for a correlation of .70 calculated from 24 cases is only .45, there is little reason to believe that the observed correlation is spuriously high. Too many other relationships in the UNS data are also very strong and regular to dismiss this one correlation as a statistical fluke.

B. Prediction Equations

Selection of variables to be used in predicting annoyance is more a pragmatic than a statistical matter. In the current situation, in which there are a number of potential predictor variables strongly related to the predicted variable, the selection may best be guided by administrative convenience. Thus, if only demographic or situational information is available, the equations in Tables III-10 or III-11 may be used. If attitudinal and noise effects information is also available, the equations of Tables III-12 or III-13 may be used.

Simply because a predictor variable does not appear in one of these equations does not imply that it is poorly related to annoyance. Quite the opposite may be the case, even though no additional variance may be accounted for by including variables

with high simple correlations with annoyance in a regression equation. This apparent contradiction is easily understood in the context of the stepwise regression procedure.

After each predictor variable is put in a regression, the stepwise procedure recomputes the correlation matrix, extracting the covariance associated with the partial correlations between the remaining predictor variables and the predicted variable. Thus, the variance accounted for by each variable in the regression equation so produced is strongly influenced by its position in the equation. If the later predictor variables are related to the predicted variable in the same manner as earlier variables, they will appear to account for little additional variance, even though they may have high simple correlations with the predicted variable. There are no statistical guidelines for "best" or "unique" regression equations under these conditions; instead, one selects the variables of greatest interest for the initial positions in the equation.

IV-3 On Noise Sources

It is interesting to note that all of the highly annoying noise sources on a national basis (Table III-5) are amenable to level-oriented regulation. Mechanical sources, rather than barking dogs and people talking in the streets, are the major noise problems in urban America.

Additionally, it appears from the analysis of Section III-17 that noise sources that do not make a major contribution to the total day-night sound level of a community nonetheless can be significant sources of annoyance. Manner of use of a noise source (e.g., motorcycles), the perceived appropriateness of a noise source,

as noted by Jones and Galloway (1971) (e.g., emergency vehicle sirens), and other considerations may influence annoyance significantly.

IV-4 On Complaints

The incidence of complaints in the UNS data is notably low - less than a tenth of all respondents had ever complained about noise sources in their neighborhoods, even though much higher fractions of the population experienced speech and sleep interference and annoyance. Furthermore, no linear combination of major demographic, situational, and attitudinal variables was capable of reliably discriminating complainers from non-complainers. A discriminant function analysis (a statistical procedure analogous to a factor analysis in which loadings are calculated for arbitrarily specified dimensions) was able to correctly identify only 62% of all cases as complainers or non-complainers, a result that does not differ significantly from chance.

Perhaps the single most important factor that may account for both the small number and unpredictability of complaints is the lack of opportunity for complaining characteristic of the urban noise exposure situation. In airport neighborhoods, there are abundant opportunities for complaints about aircraft noise; indeed, special agencies often exist for the purpose of collecting complaints and taking action on them. To whom is an urban dweller to complain about a passing motorcycle, a noisy automobile on the next street, or a bus? What good would it do to complain to the police about occasional sleep interference from a police helicopter? Given these constraints on the utility of complaint behavior, it would seem wise to avoid

overreliance on complaint rates as an index of noise impact in urban areas.

IV-5 On the Relation Between Annoyance and Demographic Variables

The major demographic variable that is strongly related to annoyance is population density. Care should be taken not to interpret this relationship as a causal one, since it is well known that population density correlates highly with noise exposure. In the current sample of 24 sites selected in a manner that would tend to minimize the association between population density and noise exposure (a wide range of population density sites was purposely chosen for each noise exposure level), the correlation was 0.55.

Other demographic variables, such as age, sex, and duration of residence in a neighborhood, contribute little predictability to the relationship between annoyance and either noise exposure or population density. Income and socioeconomic level are somewhat more closely related to annoyance than other demographic variables, but not in a causative manner. Income and socioeconomic level are highly related to one another, and both are inversely related to neighborhood noise levels (as may be seen in Figure III-5).

Thus, noise exposure, like other forms of environmental pollution, does not affect all segments of society equally. It is not that the ears of the high socioeconomic level respondents are more or less sensitive than those of other segments of society; they simply can afford to live in quieter neighborhoods. The fact that neighborhood satisfaction is inversely related to noise exposure but directly related to income and socioeconomic level suggests that quiet is a valuable attribute of neighborhoods. As may be seen in Section III-10,

those who are most highly annoyed are not at all confused about this issue; more of the highly annoyed found their neighborhoods noisy and not especially pleasant to live in, were thinking of moving, and spontaneously mentioned noise as the least liked aspect of their neighborhoods.

IV-6 On the Relationship of Current Findings to Prior Findings

Figure IV-1 plots the relationship (regression equation) between annoyance and noise exposure derived from the current data on the same axis as plots derived from two other sources. The upper plot compares the UNS data with the relationship found in EPA's "Levels Document". The latter relationship was derived principally from two aircraft noise surveys. It is apparent that the aircraft noise data greatly overestimate the annoyance found in general urban noise environments.

The lower plot of Figure IV-1 compares the UNS data with a synthesis of all major social survey data prepared by Schultz et al. (1976). The curve of Schultz et al. (1976) resembles the UNS data far more closely than the aircraft noise curve of the Levels Document. Indeed, disparities between the two curves in the lower plot are readily attributable to errors of prediction in the two regression equations. The reader is referred to Schultz et al. (1976) for a fuller discussion of the methods whereby prior social survey data were manipulated to derive a composite function.

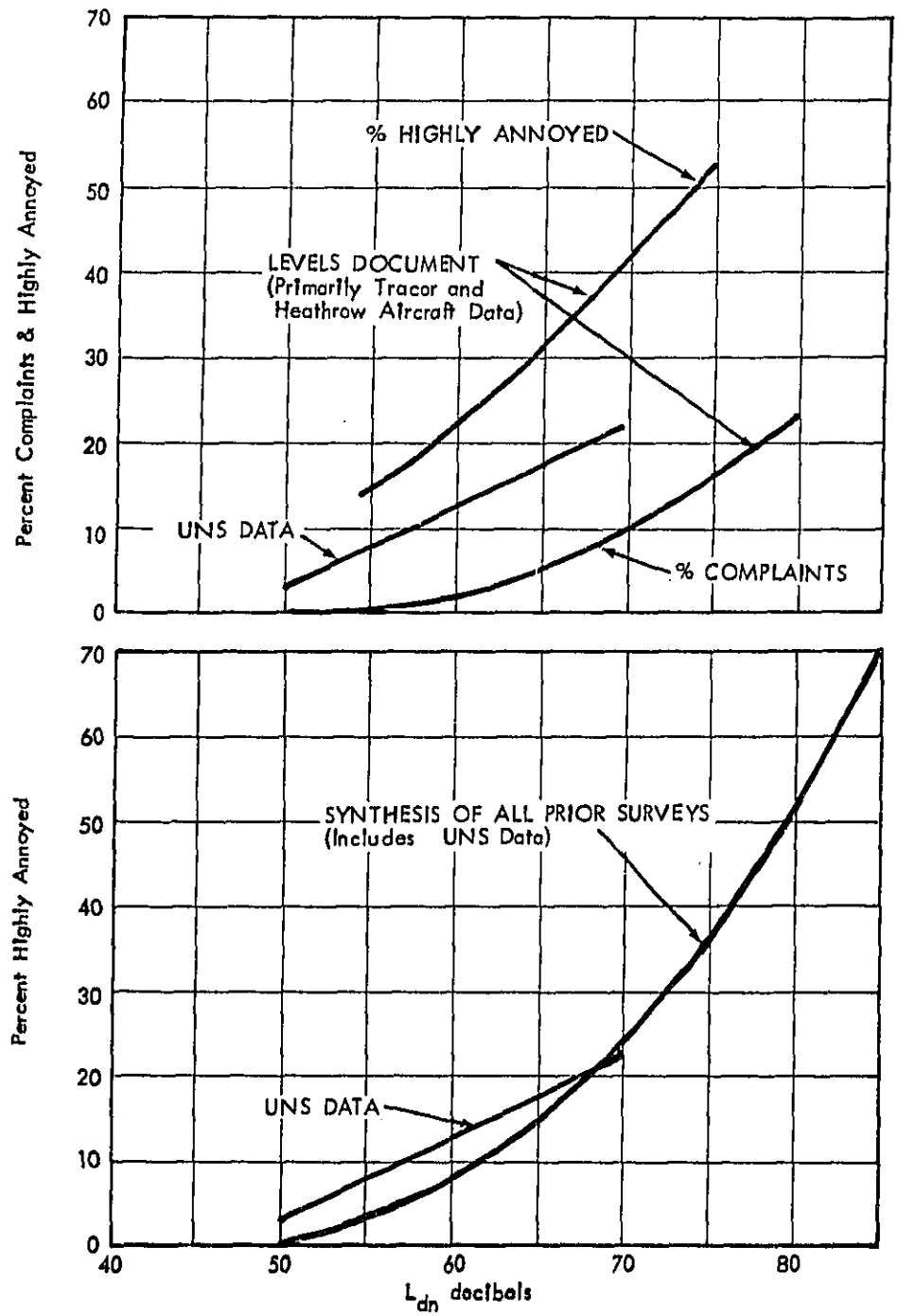

FIGURE IV-1. COMPARISON OF CURRENT DATA WITH "LEVELS DOCUMENT" ESTIMATE (ABOVE) AND ALL PRIOR SURVEY DATA (BELOW)

V. CONCLUSIONS

The following are among the major conclusions that may be supported by inferences drawn from the data of the national Urban Noise Survey.

1. Exposure to noise levels typical of many urban (non-aircraft, non-highway) environments produces widespread annoyance, speech interference, and sleep interference in the American public.

2. The relationship between exposure level and the proportion of a community highly annoyed by noise is strong and predictively useful.

3. The prevalence of speech interference in a community is an especially good predictor of the prevalence of annoyance.

4. Population density is another important correlate of noise exposure that may be useful as a surrogate for physical exposure in predicting the prevalence of annoyance.

5. The proportion of the population exposed to urban (non-aircraft, non-highway) noise that complains about the exposure is a poor predictor of the prevalence of annoyance.

6. Demographic factors alone (age, sex, income, socioeconomic level, duration of neighborhood residence, etc.) are relatively poor predictors of annoyance.

7. The public is aware that noise exposure degrades the quality of urban living, inasmuch as freedom from exposure is a component of neighborhood satisfaction, and quiet is highly valued.

8. Noises associated with automotive sources are the most pervasive sources of annoying noise exposure in urban America.

9. Annoyance associated with intrusive noise sources may be related to measurable noise exposure from such sources, even when their magnitudes are not as great as the overall exposure levels in a community.

10. There is some evidence that human response to noise exposure at L_{dn} values in excess of 70 dB is more acute than at lower exposure levels.

11. Although annoyance due to noise exposure is more prevalent during the evening and night periods than during the day, the current data do not support any clear inferences about the magnitude of a nighttime noise exposure penalty.

12. People of high socioeconomic level suffer less noise exposure and are more satisfied with their neighborhood environments than people of lower socioeconomic level.

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APPENDIX A

TABULATED ITEMS FROM SURVEY QUESTIONNAIRE

ITEM	QUESTION/VARIABLE	RESPONSE CODE
2)	Respondent's Sex	Female-1; Male-2
3)	How long have you lived at your present address?	Number of months up to 887
4)	How would you rate your neighborhood as a place to live?	excellent - 1 good - 2 fair - 3 poor - 4 very poor - 5
5)	What two things do you like most about living in your neighborhood?	Noise - 1 Non-noise - 2
	First thing: (verbatim)	
6)	Second thing: (verbatim)	Noise - 1 Non-noise - 2
7)	What two things do you like least about living in your neighborhood?	Noise - 1 Non-noise - 2
	First thing: (verbatim)	
8)	Second thing: (verbatim)	Noise - 1 Non-noise - 2
9)	Are you thinking seriously of moving away from your neighborhood within the next year?	Yes - 1 No - 2
10)	What is the main reason? (verbatim)	Noise - 1 Non-noise - 2
11)	Would you say that your neighborhood over the past year has been quiet or noisy?	Quiet - 1 (12A next) Noisy - 2 (12B next) Neither - 3

ITEM	QUESTION/VARIABLE	RESPONSE CODE	
12A	How quiet was it? (13 next)	Slightly - 2 Moderately - 3 Very - 4 Extremely - 5	
12B	How noisy was it?	Slightly - 2 Moderately - 3 Very - 4 Extremely - 5 Neither noisy or quiet - 0	
13	Have you ever been bothered or annoyed by the noise in your neighborhood?	No - 1 Yes - 2	(41 next)
14	How annoying was the noise in your neighborhood over the past year?	Not at all - 1 Slightly - 2 Moderately - 3 Very - 4 Extremely - 5	
15	Is noise in your neighborhood more annoying at one time of day than another?	No - 1 Morning - 2 Afternoon - 3 Evening - 4 Night - 5	
16	Is the noise in your neighborhood more annoying during one season of the year than at another?	No - 1 Winter - 2 Spring - 3 Summer - 4 Fall - 5	
17	Is the noise in your neighborhood more annoying on weekends or weekdays?	No difference- 1 Weekends - 2 Weekdays - 3	
18	Does noise in your neighborhood bother you more when you are out-of-doors or in the house?	No difference- 1 Out-of-doors - 2 In the house - 3	

Over the past year have you heard (items 19-34A) .... in your neighborhood? (If so) over the year how annoying was (items 19-34A) .... to you?

19) Construction Noise
20) People's Voices
21) Pets
22) Airplanes
23) Helicopters
24) Radio or TV sets (other loudspeakers)
25) Power Garden Equip. (lawnmowers, etc.)
26) Motor Vehicle Noise (buses, motorcycles, autos, trucks

(Items 27-33 omitted if Item 26 response is 0)

27) Sports cars
28) Automobiles
29) Small trucks
30) Large trucks
31) Motorcycles
32) Buses
33) Constant traffic
34A) Any other noises: (verbatim)
34B) (categorization of verbatim response)

Response Scale for items 19-34A, 35-39:

No	- 0
Not at all Annoying	- 1
Slightly Annoying	- 2
Moderately Annoying	- 3
Very Annoying	- 4
Extremely Annoying	- 5

Outside Mechanical	- 2
Inside Mechanical	- 3
Outside Human	- 4
Inside Human	- 5

Over the past year has noise in your neighborhood ever (items 35-39) .... (If so) considering the whole year, how annoying was this to you?

35) Interfered with your listening to radio, TV, or records?
36) Startled or frightened you?
37) Disturbed your sleep?
38) Made you pause or raise your voice when talking in person or on the phone?
39) Made you keep your windows shut?

No	- 0
Not at all Annoying	- 1
Slightly Annoying	- 2
Moderately Annoying	- 3
Very Annoying	- 4
Extremely Annoying	- 5

ITEM	QUESTION/VARIABLE	RESPONSE CODE
40)	Have you ever complained to anyone in an official position about the noise in your neighborhood?	No - 1 Yes - 2
41)	Is your home air conditioned?	No - 1 Yes, room - 2 Yes, central - 3 Yes, evaporative - 4
42)	On a typical weekday, how many hours do you spend at home or in your neighborhood? (Weekday - 24 hours)	Number of Hours ___
43)	On a typical weekend (Friday night through Sunday night - 48 hours), how many hours do you spend at home or in your neighborhood?	Number of Hours ___
44)	Do you feel you are more, or less sensitive to noise than most people?	Less - 1 About the Same - 2 More - 3
45)	Do you think the noise in your neighborhood has affected your health in any way? Yes: How? (verbatim)	No - 1 Yes Hearing Damage - 2 Others - 3
46)	How many children are in your family under 18 years of age?	Number of children ___
51)	Duncan Scale Rating	Decile 0-9
52)	Annual Household Income	$0-5000 - 1 5-10000 - 2 10-15000 - 3 15-20000 - 4 20-25000 - 5 25-30000 - 6 30000 & up - 7

APPENDIX B

HOW TO INTERPRET TABULATIONS

Rows in the tabulations represent questionnaire items; columns correspond to response categories found on the questionnaire. Cells in the matrix are percentages of respondents in each category. The mean values for each row are weighted averages of response categories 0 through 5; the standard deviations are based on the same values; and the number of cases is the denominator in the calculation of the mean. Note that these calculations exclude responses in the "don't know" and "not ascertained" categories.

Cell entries for question 3 represent percentages of respondents who fall into nine duration-of-residence categories, as shown in the table below. The mean and standard deviations for question 3 also are interpretable in the same terms.

CATEGORIES OF DURATION-OF-RESIDENCE

Category	Number of Months
0	0 - 6
1	7 - 18
2	19 - 30
3	31 - 42
4	43 - 54
5	55 - 66
6	67 - 78
7	79 - 90
8	91 -102
9	103 or more

For those questions identified as "Binomial" in the right margin, Z scores for a binomial distribution with P=Q=.5 are calculated. The Z score thus reflects the divergence of the distribution of "Yes" and "No" responses from a chance distribution for these questions.

Cell entries for question 12A represent percentages of respondents in the various categories who considered their neighborhoods quiet; those for 12B are for respondents who considered their neighborhoods noisy. Cell entries for question 34A are similar to those for questions 19 through 33; those for question 34B are for the indoors/outdoors, mechanical/human categorizations.

For certain questions (e.g., 2, 15, 16, 17, 18 and 34), the mean and standard deviation values are not meaningful, since the categories are merely nominal. For other questions (e.g., 42, 43, and 46) the cell entries are not meaningful (all zeroes), but the means and standard deviations are directly interpretable as hours spent at home, or numbers of children in the household. Question 51 is tabulated in deciles of the Duncan Scale. Question 52 is tabulated in categories of $5000 of annual household income.

GUIDE TO VARIABLE NAMES AND CARD FORMAT FOR NUNS DATA

QUESTIONNAIRE ITEM NUMBER	VARIABLE NAME	RESPONSE CODE	CARD COLUMN(S)
1	CITY	00-Boston 01-Washington 04-Atlanta 05-Chicago 10-San Francisco 15-Seattle 16-Los Angeles	1 & 2
1	SITE	00-11 telephone 90-98 personal	3 & 4
1	RESPNDNT	serial number	5-7
2	SEX	female-1 male-2	8
3	RESIDNCE	number of months	9-11
4	RATELIVE	excellent-1 good -2 fair -3 poor -4 very poor-5	12
5	MOSTLIK1	noise-1 non-noise-2	13
6	MOSTLIK2	noise-1 non-noise-2	14
7	LSTLIKE1	noise-1 non-noise-2	15
8	LSTLIKE2	noise-1 non-noise-2	16
9	THNKMOVE	yes-1 no-2	17
10	MOVERESN	noise-1 non-noise-2	18

QUESTIONNAIRE ITEM NUMBER	VARIABLE NAME	RESPONSE CODE	CARD COLUMN(S)
25	GARDEN		33
26	MOTORVEH		34
27	SPRTSCAR		35
28	AUTOMOBL		36
29	SMLTRUCK		37
30	BIGTRUCK		38
31	MOTRCYCL		39
32	BUSES		40
33	TRAFFIC		41
34	OTHRSRCE	(no-0 not at all annoying-1 slightly annoying-2 moderately annoying-3 very annoying-4 extremely annoying-5)	42-43
35	LISTNINT		44
36	FEARSTRT		45
37	SLEEPINT		46
38	TALKINT		47
39	WINDOWS		48
40	COMPLAIN	(no-0 not at all annoying-1 slightly annoying-2 moderately annoying-3 very annoying-4 extremely annoying-5) no-1 yes-2 dk-8 na-9	49
41	AIRCOND	no-1 yes, room-2 yes, central-3 yes, evaporative-4 dk-8 na-9	50
42	WEEKHRS	number of hours ___ dk-88 na-99	51
43	WKNDHRS	number of hours ___ dk-88 na-99	52
44	SENSITIV	less-1 about the same-2 more-3 dk-8 na-9	53
45	HEALTH	no-1 yes hearing damage-2 others-3 dk-8 na-9	54

QUESTIONNAIRE ITEM NUMBER	VARIABLE NAME	RESPONSE CODE	CARD COLUMN(S)
46	CHILDREN	number of children__ dk-88 na-99	55
51	DUNCAN	duncan rating __ dk-8 na-9	60
52	INCOME	$0-5000-1 5-10000-2 10-15000-3 15-20000-4 20-25000-5 25-30000-6 30000 and up-7 dk-8 na-9	61

BOLT BERANEK AND NEWMAN INC.

ALL RESPONDENTS FROM ALL SITES

EPA 24 SITE SURVEY

NUMBER OF RESPONDENTS = 2037

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.54	37.41	.05	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	2037	
3	0.00	1.73	12.14	11.00	8.92	6.10	6.54	4.86	4.16	44.95	6.35	2.61	2018	
4	0.00	30.14	39.18	22.73	5.11	2.16	0.00	0.00	.39	.25	2.09	.96	2024	
5	0.00	13.94	79.62	0.00	0.00	0.00	0.00	0.00	2.25	3.98	Z = -30.74		1912	BINOMIAL
6	0.00	7.41	70.20	0.00	0.00	0.00	0.00	0.00	10.51	11.98	Z = -32.17		1581	BINOMIAL
7	0.00	12.17	58.57	0.00	0.00	0.00	0.00	0.00	14.73	14.53	Z = -24.89		1441	BINOMIAL
8	0.00	5.84	31.86	0.00	0.00	0.00	0.00	0.00	31.27	31.03	Z = -19.12		768	BINOMIAL
9	0.00	23.32	74.67	0.00	0.00	0.00	0.00	0.00	1.77	.25	Z = -23.41		1996	BINOMIAL
10	0.00	1.18	21.50	0.00	0.00	0.00	0.00	0.00	.39	76.93	Z = -19.26		462	BINOMIAL
						NOISE								
11	0.00	61.56	31.37	6.57	0.00	0.00	0.00	0.00	.10	.10	Z = 14.14		2033	BINOMIAL
12-A	.32	0.00	7.02	47.53	35.39	8.45	0.00	0.00	.24	.56	3.45	.77	1244	
12-B	.16	0.70	12.93	44.76	32.39	9.70	0.00	0.00	.16	0.00	3.39	.84	638	
13	0.00	53.31	46.44	0.00	0.00	0.00	0.00	0.00	0.00	.25	Z = 3.11		2032	BINOMIAL
14	0.00	5.60	28.96	34.14	21.04	9.51	0.00	0.00	.21	.53	3.00	1.05	939	
15	0.00	22.20	11.42	15.22	21.56	26.74	0.00	0.00	1.90	.95	3.20	1.52	919	
16	0.00	37.10	.85	3.70	53.59	1.06	0.00	0.00	2.64	1.06	2.80	1.45	911	
17	0.00	31.29	40.70	24.84	0.00	0.00	0.00	0.00	2.22	.95	1.93	.76	916	
18	0.00	21.04	23.26	54.23	0.00	0.00	0.00	0.00	.42	1.06	2.34	.81	932	
						SOURCES								
19	53.81	12.16	11.31	8.46	9.09	4.02	0.00	0.00	0.00	1.16	1.18	1.56	935	
20	29.28	26.43	18.07	11.52	10.65	4.97	0.00	0.00	0.00	1.06	1.62	1.52	936	
21	24.74	21.14	16.17	11.10	17.44	8.35	0.00	0.00	0.00	1.06	2.00	1.67	936	
22	33.30	34.04	14.27	9.41	6.13	1.69	0.00	0.00	.11	1.06	1.25	1.28	935	
23	41.12	30.87	11.42	4.97	6.24	3.49	0.00	0.00	.32	1.59	1.13	1.36	928	
24	60.15	15.96	7.40	4.65	6.98	3.28	0.00	0.00	0.00	1.59	.60	1.43	931	
25	56.24	26.54	6.77	4.55	3.07	.85	0.00	0.00	.11	1.80	.72	1.08	928	
26	14.18	15.12	17.97	18.71	21.35	8.46	0.00	0.00	.32	3.91	2.45	1.56	905	
27	40.59	19.54	6.98	7.61	10.68	4.55	0.00	0.00	.63	13.42	1.37	1.65	813	
28	14.27	25.58	15.01	15.64	12.37	4.02	0.00	0.00	0.00	13.11	1.98	1.45	822	
29	35.94	23.26	9.83	9.09	5.07	3.07	0.00	0.00	.21	13.53	1.23	1.41	816	
30	31.18	18.08	8.25	11.10	10.73	6.87	0.00	0.00	.21	13.53	1.66	1.70	816	
31	18.85	14.69	12.64	13.32	18.50	9.73	0.00	0.00	0.00	13.00	2.33	1.79	823	
32	48.52	19.34	5.71	5.71	4.23	3.17	0.00	0.00	0.00	13.32	.93	1.38	820	
33	35.41	16.01	10.47	12.79	7.61	3.28	0.00	0.00	0.00	13.64	1.42	1.53	817	
34-A	61.63	4.12	4.23	4.56	6.45	5.71	0.00	2.85	.11	10.04	1.13	1.93	859	
34-B	0.00	0.00	16.91	1.48	3.70	.74	0.00	0.00	0.00	77.17	2.49	.88	216	
						ACTIVITY								
35	80.57	2.96	8.25	9.83	11.95	5.18	0.00	0.00	0.00	1.27	1.24	1.72	934	
36	58.56	3.49	8.68	7.61	12.37	7.61	0.00	0.00	0.00	1.48	1.34	1.80	932	
37	39.75	3.36	9.62	8.93	21.46	15.12	0.00	0.00	0.00	1.69	2.15	1.99	933	
38	63.53	4.33	8.99	6.45	11.42	3.81	0.00	0.00	0.00	1.48	1.08	1.63	932	
39	52.33	3.17	8.77	11.84	14.27	7.93	0.00	0.00	.21	1.48	1.56	1.84	930	
						INDIVIDUAL								
40	0.00	79.70	19.34	0.00	0.00	0.00	0.00	0.00	0.00	.95	Z = 6.06		937	BINOMIAL
41	0.00	69.86	29.75	0.00	0.00	0.00	0.00	0.00	.10	.29	Z = 18.14		2029	BINOMIAL
42											17.09	5.20	1997	
43											36.84	11.29	1958	
44	0.00	33.58	39.86	24.35	0.00	0.00	0.00	0.00	1.62	.59	1.91	.76	1992	
45	0.00	93.57	5.50	0.00	0.00	0.00	0.00	0.00	.74	.20	Z = 39.94		2018	BINOMIAL
46											.95	1.46	1984	
51	2.13	9.48	.16	6.70	3.54	8.99	8.34	13.46	16.13	31.06	6.46	2.89	1835	
52	0.00	17.87	16.49	16.75	10.60	5.79	2.80	3.93	6.19	17.57	2.92	1.66	1553	

BOLT BERANEK AND NEWMAN INC. FPA 24 SITE SURVEY

HIGH NOISE EXPOSURE SAMPLE (SITES 0006, 0008, 1007, 0502, 0511, 1001)

NUMBER OF RESPONDENTS = 479

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.33	39.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	.49	479	
3	0.00	2.30	23.43	14.85	7.95	6.49	5.44	5.02	2.30	32.22	5.34	2.94	478	
4	0.00	19.62	39.44	31.37	6.68	2.09	0.00	0.00	.63	.21	2.32	.93	475	
5	0.00	8.56	85.39	0.00	0.00	0.00	0.00	0.00	.21	5.85	? =	-17.35	450	BINOMIAL
6	0.00	4.59	69.52	0.00	0.00	0.00	0.00	0.00	8.77	17.12	? =	-14.51	365	BINOMIAL
7	0.00	14.02	57.20	0.00	0.00	0.00	0.00	0.00	6.47	21.50	? =	-10.91	345	BINOMIAL
8	0.00	6.89	31.82	0.00	0.00	0.00	0.00	0.00	17.12	42.17	? =	-9.24	195	BINOMIAL
9	0.00	27.77	68.48	0.00	0.00	0.00	0.00	0.00	3.76	0.00	? =	-9.08	461	BINOMIAL
10	0.00	2.09	25.05	0.00	0.00	0.00	0.00	0.00	.42	72.44	? =	-9.65	130	BINOMIAL
						NOISE								
11	0.00	46.14	43.22	10.65	0.00	0.00	0.00	0.00	0.00	0.00	? =	.68	473	BINOMIAL
12-A	.45	0.00	8.60	57.92	26.70	5.43	0.00	0.00	0.00	.90	3.28	.73	219	
12-B	0.00	0.00	10.14	42.03	38.16	9.68	0.00	0.00	0.00	0.00	3.47	.60	207	
13	0.00	45.51	54.07	0.00	0.00	0.00	0.00	0.00	0.00	.42	? =	-1.88	477	BINOMIAL
14	0.00	6.70	25.68	30.12	27.01	11.58	0.00	0.00	0.00	0.00	3.13	1.10	259	
15	0.00	15.44	4.67	12.36	24.25	28.19	0.00	0.00	2.70	.39	3.38	1.44	251	
16	0.00	46.93	.77	4.25	40.58	.77	0.00	0.00	2.70	0.00	2.40	1.44	252	
17	0.00	32.43	32.05	31.66	0.00	0.00	0.00	0.00	3.47	.39	1.99	.82	249	
18	0.00	15.44	18.15	65.44	0.00	0.00	0.00	0.00	.39	.39	2.81	.75	257	
19	45.95	8.49	12.74	13.51	11.97	7.34	0.00	0.00	0.00	0.00	1.59	1.74	259	
						SOURCES								
20	22.01	23.17	23.17	11.97	12.74	6.56	0.00	0.00	0.00	.39	1.90	1.51	258	
21	37.44	22.78	13.90	8.49	12.36	4.63	0.00	0.00	0.00	0.00	1.49	1.57	259	
22	39.00	24.71	14.40	11.58	5.79	1.93	0.00	0.00	.39	0.00	1.24	1.34	258	
23	62.55	21.65	8.95	2.32	1.93	.77	0.00	0.00	.77	1.16	.67	.96	254	
24	57.92	12.74	9.27	8.11	9.27	1.93	0.00	0.00	0.00	.77	1.07	1.47	257	
25	78.38	13.13	2.70	2.32	1.54	.39	0.00	0.00	0.00	1.54	.34	.83	255	
26	10.42	9.27	10.31	21.24	26.64	11.20	0.00	0.00	.39	1.54	2.86	1.49	254	
27	43.43	11.20	9.65	5.79	15.06	3.47	0.00	0.00	.39	10.81	1.41	1.69	230	
28	9.27	19.31	18.53	22.78	15.06	4.63	0.00	0.00	0.00	10.42	2.72	1.38	232	
29	28.57	18.53	11.97	16.60	8.49	5.02	0.00	0.00	.39	10.42	1.76	1.57	231	
30	21.62	11.97	6.56	16.99	21.62	9.65	0.00	0.00	.39	11.20	2.38	1.77	229	
31	18.53	15.43	11.97	11.97	21.62	10.04	0.00	0.00	0.00	10.04	2.36	1.72	233	
32	33.59	22.78	9.27	10.42	8.11	5.02	0.00	0.00	0.00	10.81	1.44	1.57	231	
33	13.51	20.85	13.51	22.01	14.29	4.63	0.00	0.00	0.00	11.20	2.19	1.47	230	
34-A	57.53	2.70	4.63	4.63	11.20	7.72	0.00	2.32	0.00	9.27	1.38	2.03	235	
34-B	0.00	0.00	22.78	1.93	6.56	1.16	0.00	0.00	0.00	67.57	2.57	.93	86	
35	62.12	2.70	10.42	12.74	18.15	3.86	0.00	0.00	0.00	0.00	1.54	1.76	259	
						ACTIVITY								
36	56.76	3.09	6.56	8.49	14.29	10.42	0.00	0.00	0.00	.39	1.52	1.92	258	
37	33.98	2.70	10.81	11.97	24.71	15.06	0.00	0.00	0.00	.77	2.34	1.94	257	
38	52.90	3.86	11.58	6.95	18.53	5.79	0.00	0.00	0.00	.39	1.52	1.81	258	
39	41.70	5.02	7.72	15.06	20.08	9.65	0.00	0.00	.39	.39	1.96	1.89	257	
40	0.00	84.17	15.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	? =	6.83	259	BINOMIAL
						INDIVIDUAL								
41	0.00	78.91	20.67	0.00	0.00	0.00	0.00	0.00	.21	.21	? =	12.77	477	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.74	5.24	445	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.84	11.99	457	
44	0.00	35.91	38.95	23.17	0.00	0.00	0.00	0.00	2.71	1.25	1.87	.77	460	
45	0.00	92.28	6.28	0.0.	0.00	0.00	0.00	0.00	1.46	0.00	? =	18.96	472	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.89	1.67	444	
51	1.39	12.27	.46	6.25	4.40	9.95	8.10	9.95	14.12	33.10	6.28	2.84	432	
52	0.00	24.10	21.29	15.87	7.10	4.18	1.88	3.76	5.64	14.20	2.53	1.62	344	

BOLT BERANEK AND NEWMAN INC. FAA 24 SITE SURVEY

LDN NOISE EXPOSURE SAMPLE (SITES 1609, 1600, 1503, 1502, 1501, 1505, 0005)

NUMBER OF RESPONDENTS = 537

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.94	37.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	.48	537	
3	0.00	.38	7.32	12.01	11.63	8.44	7.69	6.75	6.00	39.77	6.39	2.57	533	
4	0.00	53.45	37.80	7.08	1.12	.19	0.00	0.00	.19	.19	1.56	.69	535	
5	0.00	13.41	84.34	0.00	0.00	0.00	0.00	0.00	2.05	.19	2 = -14.63		525	BINOMIAL
6	0.00	11.55	73.03	0.00	0.00	0.00	0.00	0.00	12.46	2.05	2 = -15.64		459	BINOMIAL
7	0.00	7.45	62.30	0.00	0.00	0.00	0.00	0.00	21.79	8.38	2 = -15.23		375	BINOMIAL
8	0.00	5.59	28.86	0.00	0.00	0.00	0.00	0.00	47.30	18.25	2 = -9.19		185	BINOMIAL
9	0.00	12.68	86.69	0.00	0.00	0.00	0.00	0.00	.93	0.00	2 = -17.26		532	BINOMIAL
10	0.00	0.00	12.29	0.00	0.00	0.00	0.00	0.00	0.00	87.71	2 = -8.12		66	BINOMIAL
						NOISE								
11	0.00	83.99	12.85	3.17	0.00	0.00	0.00	0.00	0.00	0.00	2 = 14.75		537	BINOMIAL
12=A	0.00	0.00	5.99	42.35	39.25	11.53	0.00	0.00	.44	.44	3.57	.77	447	
12=B	0.00	0.00	17.39	53.62	18.84	10.14	0.00	0.00	0.00	0.00	3.22	.85	69	
13	0.00	62.94	36.87	0.00	0.00	0.00	0.00	0.00	0.00	.19	2 = 6.05		536	BINOMIAL
14	0.00	3.03	42.42	29.80	15.66	6.57	0.00	0.00	.51	2.02	2.80	.97	193	
15	0.00	34.85	10.10	17.17	17.17	16.16	0.00	0.00	2.02	2.53	2.68	1.52	189	
16	0.00	35.86	1.52	6.06	51.52	.51	0.00	0.00	1.01	3.54	2.78	1.43	189	
17	0.00	32.83	44.95	18.18	0.00	0.00	0.00	0.00	2.02	2.02	1.86	.71	198	
18	0.00	24.24	34.34	38.38	0.00	0.00	0.00	0.00	.51	2.53	2.16	.79	192	
19	55.05	15.66	10.10	5.56	8.59	2.02	0.00	0.00	0.00	1.03	1.00	1.43	192	
						SOURCES								
20	45.45	30.30	9.09	9.09	2.02	1.52	0.00	0.00	0.00	2.53	.94	1.17	193	
21	17.17	19.70	14.14	14.14	19.19	11.62	0.00	0.00	0.00	2.02	2.34	1.67	194	
22	35.35	37.88	11.62	7.58	4.55	1.01	0.00	0.00	0.00	2.02	1.69	1.17	194	
23	29.80	38.38	9.60	7.58	6.57	4.55	0.00	0.00	0.00	3.54	1.14	1.40	191	
24	68.69	11.11	4.67	3.03	3.03	3.54	0.00	0.00	0.00	4.04	.66	1.29	198	
25	31.31	38.38	10.61	10.61	3.03	2.53	0.00	0.00	0.00	3.54	1.20	1.24	191	
26	23.23	14.65	18.18	14.65	12.12	6.06	0.00	0.00	0.00	11.11	1.56	1.59	176	
27	32.32	22.22	3.54	8.08	8.08	2.02	0.00	0.00	0.00	25.76	1.21	1.48	147	
28	19.70	27.27	9.09	8.59	8.08	2.53	0.00	0.00	0.00	24.75	1.54	1.43	149	
29	43.43	22.73	4.04	1.01	2.02	2.02	0.00	0.00	0.00	24.75	.69	1.12	149	
30	36.87	17.17	8.08	6.57	3.54	3.03	0.00	0.00	0.00	24.75	1.09	1.42	149	
31	9.60	10.61	14.14	15.15	15.15	10.61	0.00	0.00	0.00	24.75	2.63	1.59	149	
32	52.53	13.64	3.03	4.04	1.01	1.01	0.00	0.00	0.00	24.75	.54	1.04	149	
33	51.01	12.12	4.55	4.55	2.53	1.01	0.00	0.00	0.00	24.24	.66	1.17	158	
34=A	61.11	4.04	1.52	4.55	3.03	3.54	0.00	4.55	.51	17.17	1.00	2.00	163	
34=B	0.00	0.00	17.48	1.52	2.53	.51	0.00	0.00	0.00	77.78	2.36	.77	44	
35	77.27	2.53	3.54	5.56	4.04	4.04	0.00	0.00	0.00	3.03	.66	1.41	192	
						ACTIVITY								
36	83.13	4.55	10.10	8.08	6.06	5.05	0.00	0.00	0.00	3.03	1.02	1.58	192	
37	41.92	4.04	8.59	10.61	16.16	14.65	0.00	0.00	0.00	4.04	1.99	1.99	198	
38	73.23	4.04	5.08	2.02	4.57	2.53	0.00	0.00	0.00	3.54	.68	1.36	191	
39	61.11	3.54	5.56	9.09	11.62	6.06	0.00	0.00	0.00	3.03	1.27	1.76	192	
40	0.00	77.27	19.70	0.00	0.00	0.00	0.00	0.00	0.00	3.03	2 = 5.85		192	BINOMIAL
						INDIVIDUAL								
41	0.00	82.87	16.67	0.00	0.00	0.00	0.00	0.00	.19	.37	2 = 15.41		534	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.24	5.07	524	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.58	10.40	609	
44	0.00	29.24	38.36	31.47	0.00	0.00	0.00	0.00	.74	.19	2.02	.78	532	
45	0.00	96.09	3.72	0.00	0.00	0.00	0.00	0.00	0.00	.19	2 = 21.42		536	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.43	532	
51	.63	2.74	0.00	2.11	1.68	5.47	6.95	14.95	20.42	45.05	7.58	1.93	475	
52	0.00	1.30	5.77	22.72	14.90	10.06	5.40	7.64	4.66	27.56	4.08	1.52	364	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF (HIGH - LOW) NOISE EXPOSURE SAMPLES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES
NEIGHBORHOOD													
2	0.00	-2.61	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.07	.01	
3	0.00	1.93	14.11	2.05	-3.68	-1.06	-2.25	-1.73	-3.70	-7.56	-1.05	.37	
4	0.00	-33.82	1.65	24.24	5.56	1.90	0.00	0.00	.44	.02	.75	.24	
5	0.00	-4.85	1.03	0.00	0.00	0.00	0.00	0.00	-1.84	5.66	7 =	-.72	BINOMIAL
6	0.00	-6.95	-4.41	0.00	0.00	0.00	0.00	0.00	-3.71	15.07	7 =	-.87	BINOMIAL
7	0.00	7.37	-5.18	0.00	0.00	0.00	0.00	0.00	-15.32	13.12	7 =	4.30	BINOMIAL
8	0.00	1.30	4.96	0.00	0.00	0.00	0.00	0.00	-30.18	23.92	7 =	-.05	BINOMIAL
9	0.00	15.29	-18.12	0.00	0.00	0.00	0.00	0.00	2.83	0.00	7 =	8.17	BINOMIAL
10	0.00	2.09	12.76	0.00	0.00	0.00	0.00	0.00	.42	-15.27	7 =	-1.52	BINOMIAL
NOISE													
11	0.00	-37.95	30.37	7.48	0.00	0.00	0.00	0.00	0.00	0.00	7 =	-16.08	BINOMIAL
12-A	.45	0.00	2.61	15.57	-12.55	-6.10	0.00	0.00	-.44	.46	-.20	-.04	
12-B	0.00	0.00	-7.25	-11.59	19.32	-.48	0.00	0.00	0.00	0.00	.28	-.05	
13	0.00	-17.43	17.20	0.00	0.00	0.00	0.00	0.00	0.00	.23	7 =	-7.92	BINOMIAL
14	0.00	2.76	-16.94	.32	11.37	5.02	0.00	0.00	-.51	-2.02	.33	.12	
15	0.00	-19.40	4.67	-4.82	9.04	12.02	0.00	0.00	.68	-2.14	.70	-.08	
16	0.00	5.07	-.74	-1.81	-.94	.27	0.00	0.00	1.49	-3.54	-.10	.04	
17	0.00	-.40	-12.90	13.40	0.00	0.00	0.00	0.00	1.45	-1.63	.14	.10	
18	0.00	-8.80	-16.20	27.25	0.00	0.00	0.00	0.00	-.12	-2.14	.36	-.04	
19	-9.10	-7.16	2.44	7.96	3.38	5.32	0.00	0.00	0.00	-3.03	.59	.32	
SOURCES													
20	-23.65	-7.14	14.68	2.88	10.72	5.05	0.00	0.00	0.00	-2.14	.96	.36	
21	20.67	3.08	-2.26	-6.65	-6.84	-6.98	0.00	0.00	0.00	-2.02	-.85	-.09	
22	3.64	-13.17	4.99	4.01	1.25	.92	0.00	0.00	.39	-2.02	.17	.17	
23	32.75	-14.83	-2.65	-5.26	-4.64	-3.77	0.00	0.00	.77	-2.38	-.77	-.44	
24	-10.77	1.63	2.70	5.08	6.24	-1.60	0.00	0.00	0.00	-3.27	.37	.18	
25	47.07	-25.26	-7.90	-8.29	-1.49	-2.16	0.00	0.00	0.00	-1.99	-.96	-.41	
26	-12.81	-5.38	1.12	6.59	14.52	5.14	0.00	0.00	.39	-9.57	.84	-.10	
27	11.31	-11.03	6.12	-.27	6.98	1.45	0.00	0.00	.39	-14.95	.28	.21	
28	-10.43	-7.97	9.44	14.19	6.96	2.11	0.00	0.00	0.00	-14.32	.78	-.05	
29	-14.86	-4.19	7.93	15.59	6.47	3.00	0.00	0.00	.39	-14.32	1.01	.45	
30	-15.25	-5.20	-1.52	10.42	18.09	6.62	0.00	0.00	.39	-13.55	1.29	.35	
31	8.94	5.22	-2.17	-3.18	6.47	-.57	0.00	0.00	0.00	-14.71	-.27	.13	
32	-18.93	9.14	6.24	6.38	7.10	4.01	0.00	0.00	0.00	-13.94	.92	.53	
33	-37.50	8.73	8.97	17.46	11.76	3.62	0.00	0.00	0.00	-13.05	1.53	.30	
34-A	-3.58	-1.34	3.12	.09	8.17	4.19	0.00	-2.23	-.51	-7.91	.38	.04	
34-B	0.00	0.00	5.10	.42	4.04	.65	0.00	0.00	0.00	-10.21	.21	.16	
35	-25.15	.18	4.89	7.19	14.11	-.18	0.00	0.00	0.00	-3.03	.89	.35	
ACTIVITY													
36	-6.37	-1.46	-3.54	.41	8.23	5.37	0.00	0.00	0.00	-2.64	.56	.34	
37	-7.04	-1.34	2.22	1.30	8.55	.41	0.00	0.00	0.00	-3.27	.17	-.05	
38	-20.34	-.18	3.50	4.93	11.97	3.27	0.00	0.00	0.00	-3.15	.84	.45	
39	-19.41	1.48	2.17	5.97	8.46	3.59	0.00	0.00	.39	-2.64	.71	.13	
40	0.00	4.90	-3.87	0.00	0.00	0.00	0.00	0.00	0.00	-3.03	7 =	.99	BINOMIAL
INDIVIDUAL													
41	0.00	-3.95	4.09	0.00	0.00	0.00	0.00	0.00	.02	-.14	7 =	-2.63	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.14	.14	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.58	
44	0.00	6.67	-1.41	-8.30	0.00	0.00	0.00	0.00	1.97	1.07	-.14	-.01	
45	0.00	-3.81	2.54	0.00	0.00	0.00	0.00	0.00	1.46	-.19	7 =	-2.46	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.46	.24	
51	.76	9.53	.46	4.14	2.71	4.48	1.15	-4.99	-6.30	-11.95	-1.34	.90	
52	0.00	24.79	15.52	-6.85	-7.80	-5.88	-3.52	-3.88	.98	-13.36	-1.55	.09	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

LON = 50 00 (SITES 1505, 1503, 1609)

NUMBER OF RESPONDENTS = 233

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	63.95	36.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	.48	233	
3	0.00	0.00	9.17	10.04	14.41	9.61	7.42	8.30	5.24	35.81	6.21	2.55	229	
4	0.00	52.36	33.20	6.87	1.72	0.00	0.00	0.00	.43	.43	1.58	.70	231	
5	0.00	11.16	87.12	0.00	0.00	0.00	0.00	0.00	1.29	.43	Z = -11.70		229	BINOMIAL
6	0.00	13.30	70.39	0.00	0.00	0.00	0.00	0.00	13.73	2.59	Z = -9.52		195	BINOMIAL
7	0.00	6.44	62.23	0.00	0.00	0.00	0.00	0.00	26.61	4.72	Z = -10.24		160	BINOMIAL
8	0.00	6.44	27.47	0.00	0.00	0.00	0.00	0.00	51.93	14.16	Z = -5.51		79	BINOMIAL
9	0.00	14.59	84.98	0.00	0.00	0.00	0.00	0.00	.43	0.00	Z = -10.77		232	BINOMIAL
10	0.00	0.00	14.16	0.00	0.00	0.00	0.00	0.00	0.00	85.84	Z = -5.74		33	BINOMIAL
						NOISE								
11	0.00	87.12	10.73	2.15	0.00	0.00	0.00	0.00	0.00	0.00	Z = 11.76		233	BINOMIAL
12-A	0.00	0.00	4.43	37.44	45.81	10.34	0.00	0.00	.99	.99	3.63	.73	199	
12-B	0.00	0.00	24.00	32.00	24.00	20.00	0.00	0.00	0.00	0.00	3.40	1.06	25	
13	0.00	62.23	37.34	0.00	0.00	0.00	0.00	0.00	0.00	.43	Z = 3.81		232	BINOMIAL
14	0.00	4.60	37.93	28.74	18.09	9.20	0.00	0.00	0.00	3.45	2.87	1.08	84	
15	0.00	31.03	9.20	14.94	20.69	18.39	0.00	0.00	1.15	4.60	2.85	1.55	82	
16	0.00	37.93	1.15	6.90	45.98	0.00	0.00	0.00	1.15	6.90	2.66	1.43	80	
17	0.00	33.33	45.99	16.09	0.00	0.00	0.00	0.00	1.15	3.45	1.82	.70	83	
18	0.00	25.29	32.18	37.93	0.00	0.00	0.00	0.00	0.00	4.60	2.13	.80	83	
						SOURCES								
19	57.47	16.09	5.75	6.90	8.05	1.15	0.00	0.00	0.00	4.60	.90	1.33	83	
20	44.83	25.29	12.64	9.20	2.30	2.30	0.00	0.00	0.00	3.45	1.02	1.25	84	
21	12.64	14.94	17.24	14.94	20.69	17.24	0.00	0.00	0.00	2.30	2.69	1.67	85	
22	37.93	31.03	14.94	2.30	6.90	2.30	0.00	0.00	0.00	2.30	1.12	1.28	85	
23	32.18	31.03	12.64	5.75	4.20	4.60	0.00	0.00	0.00	4.60	1.40	1.48	83	
24	62.07	12.64	6.90	2.30	3.45	6.90	0.00	0.00	0.00	5.75	.87	1.52	82	
25	36.78	35.63	9.20	8.05	2.30	3.45	0.00	0.00	0.00	4.60	1.10	1.27	83	
26	31.01	30.34	11.79	11.49	10.34	6.90	0.00	0.00	0.00	16.09	1.77	1.71	73	
27	29.99	19.54	2.30	4.60	4.60	1.15	0.00	0.00	0.00	37.93	1.00	1.33	54	
28	22.99	20.69	6.90	9.20	3.45	1.15	0.00	0.00	0.00	35.63	1.27	1.32	56	
29	35.63	21.84	3.45	1.15	1.15	1.15	0.00	0.00	0.00	35.63	.66	1.00	56	
30	33.33	17.24	5.75	3.45	3.45	2.30	0.00	0.00	0.00	34.48	.58	1.16	57	
31	6.90	8.05	9.20	17.24	11.49	11.49	0.00	0.00	0.00	35.63	2.82	1.57	56	
32	37.93	12.64	4.60	6.90	2.30	1.15	0.00	0.00	0.00	34.48	.68	1.29	57	
33	36.78	16.09	6.90	5.75	0.00	1.15	0.00	0.00	0.00	33.33	.79	1.11	58	
34-A	59.77	3.45	9.00	1.15	2.30	3.45	0.00	6.90	0.00	22.99	1.06	2.25	67	
34-B	0.00	0.00	14.29	0.00	2.30	0.00	0.00	0.00	0.00	83.91	2.29	.70	14	
						ACTIVITY								
35	79.31	2.30	4.60	2.30	2.30	4.60	0.00	0.00	0.00	4.60	.53	1.32	83	
36	64.37	3.45	8.05	5.75	5.75	6.90	0.00	0.00	0.00	5.75	1.00	1.65	82	
37	35.63	3.45	10.34	11.49	14.94	18.39	0.00	0.00	0.00	5.75	2.23	2.00	82	
38	71.26	5.75	8.05	1.15	5.75	2.30	0.00	0.00	0.00	5.75	.63	1.30	82	
39	56.32	2.30	5.75	8.05	13.79	5.20	0.00	0.00	0.00	4.60	1.46	1.90	83	
						INDIVIDUAL								
40	0.00	75.86	19.54	0.00	0.00	0.00	0.00	0.00	0.00	4.60	Z = 5.77		83	BINOMIAL
41	0.00	86.70	12.45	0.00	0.00	0.00	0.00	0.00	.43	.43	Z = 11.38		231	BINOMIAL
42											17.60	5.23	227	
43											37.80	10.26	220	
44	0.00	26.61	41.63	31.33	0.00	0.00	0.00	0.00	.43	0.00	2.05	.76	232	
45	0.00	94.42	5.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 13.56		233	BINOMIAL
46											1.22	1.42	232	
51	1.47	2.94	0.00	1.96	1.96	5.39	5.39	13.24	22.06	45.59	7.55	2.07	204	
52	0.00	.43	6.01	16.74	16.31	10.73	4.29	8.15	5.58	31.76	4.22	1.51	146	

LDN = 55 DB (SITES 1601, 1602, 1501, 1502, 0005)

NUMBER OF RESPONDENTS = 430

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.93	39.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	.49	430	
3	0.00	1.17	8.16	13.52	9.56	8.39	8.62	5.13	5.59	39.46	6.29	2.66	429	
4	0.00	50.93	41.16	6.74	.70	.47	0.00	0.00	0.00	0.00	1.59	.65	430	
5	0.00	14.19	83.72	0.00	0.00	0.00	0.00	0.00	2.09	0.00	Z = -14.57		421	BINOMIAL
6	0.00	9.77	73.95	0.00	0.00	0.00	0.00	0.00	14.88	1.40	Z = -14.55		366	BINOMIAL
7	0.00	13.72	57.67	0.00	0.00	0.00	0.00	0.00	20.23	8.37	Z = -10.79		307	BINOMIAL
8	0.00	6.74	30.47	0.00	0.00	0.00	0.00	0.00	46.51	16.28	Z = -9.06		160	BINOMIAL
9	0.00	14.42	84.19	0.00	0.00	0.00	0.00	0.00	1.40	0.00	Z = -14.57		424	BINOMIAL
10	0.00	.47	14.19	0.00	0.00	0.00	0.00	0.00	.47	84.88	Z = -7.43		63	BINOMIAL
						NOISE								
11	0.00	75.12	21.16	3.49	0.00	0.00	0.00	0.00	0.00	.23	Z = 11.40		429	BINOMIAL
12-A	0.00	0.00	7.12	48.30	33.75	10.84	0.00	0.00	0.00	0.00	3.48	.78	323	
12-B	0.00	0.00	12.09	59.34	20.88	7.69	0.00	0.00	0.00	0.00	3.24	.76	91	
13	0.00	58.14	41.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 3.38		430	BINOMIAL
14	0.00	5.00	39.44	31.11	18.33	5.00	0.00	0.00	.56	.56	2.75	.97	178	
15	0.00	31.11	14.44	15.56	16.11	20.00	0.00	0.00	1.67	1.11	2.75	1.54	175	
16	0.00	44.89	.67	3.33	42.22	1.11	0.00	0.00	1.67	1.11	2.43	1.48	175	
17	0.00	25.44	36.89	28.89	0.00	0.00	0.00	0.00	1.67	1.11	1.99	.77	175	
18	0.00	25.00	31.11	41.67	0.00	0.00	0.00	0.00	1.11	1.11	2.17	.81	176	
						SOURCES								
19	48.13	12.78	15.56	8.33	10.00	3.33	0.00	0.00	0.00	1.67	1.25	1.54	177	
20	39.44	35.56	8.33	7.78	5.00	2.22	0.00	0.00	0.00	1.67	1.09	1.27	177	
21	22.22	27.74	18.89	11.11	12.78	5.56	0.00	0.00	0.00	1.67	1.81	1.51	177	
22	29.44	40.00	15.00	10.00	3.89	0.00	0.00	0.00	0.00	1.67	1.15	1.09	177	
23	22.22	36.67	13.89	11.67	7.78	5.56	0.00	0.00	0.00	2.22	1.62	1.45	176	
24	62.85	13.33	6.67	3.89	3.89	.56	0.00	0.00	0.00	2.78	.58	1.10	178	
25	28.49	40.00	12.78	9.44	5.56	1.11	0.00	0.00	0.00	2.22	1.24	1.20	176	
26	12.78	13.85	31.33	20.56	16.11	7.22	0.00	0.00	0.00	6.11	2.37	1.47	169	
27	27.78	22.22	7.78	10.00	12.22	6.11	0.00	0.00	0.00	13.89	1.71	1.67	155	
28	12.78	32.22	15.56	10.56	9.44	5.56	0.00	0.00	0.00	13.89	1.96	1.45	155	
29	35.11	25.11	12.78	4.44	3.89	2.78	0.00	0.00	0.00	13.89	1.10	1.30	155	
30	28.13	18.89	13.33	12.78	6.67	6.11	0.00	0.00	0.00	13.89	1.64	1.58	155	
31	11.11	13.89	16.67	13.89	19.44	11.67	0.00	0.00	0.00	13.33	2.60	1.61	156	
32	52.22	22.22	1.67	6.67	1.11	2.22	0.00	0.00	0.00	13.89	.71	1.17	155	
33	46.67	13.33	9.44	6.67	7.22	2.78	0.00	0.00	0.00	13.89	1.10	1.45	155	
34-A	57.78	5.00	7.78	7.78	2.22	3.33	0.00	5.00	.56	10.56	1.17	1.98	160	
34-B	0.00	0.00	25.56	1.67	3.89	.56	0.00	0.00	0.00	68.33	2.75	.78	57	
						ACTIVITY								
35	70.00	3.33	6.11	7.22	7.22	4.44	0.00	0.00	0.00	1.67	.90	1.56	177	
36	62.78	5.00	11.11	8.33	7.22	4.44	0.00	0.00	0.00	1.11	1.04	1.57	178	
37	45.56	4.44	7.78	8.33	19.44	12.22	0.00	0.00	0.00	2.22	1.88	1.97	176	
38	68.89	4.44	8.89	4.44	8.89	2.78	0.00	0.00	0.00	1.67	.86	1.49	177	
39	59.44	3.33	8.33	11.11	10.56	5.56	0.00	0.00	0.00	1.67	1.25	1.72	177	
						INDIVIDUAL								
40	0.00	76.11	22.22	0.00	0.00	0.00	0.00	0.00	0.00	1.67	Z = 5.43		177	BINOMIAL
41	0.00	78.14	21.63	0.00	0.00	0.00	0.00	0.00	0.00	.23	Z = 11.73		429	BINOMIAL
42											16.87	4.84	422	
43											36.67	10.24	411	
44	0.00	25.07	40.00	29.77	0.00	0.00	0.00	0.00	.93	.23	2.01	.77	429	
45	0.00	96.51	3.02	0.00	0.00	0.00	0.00	0.00	0.00	.47	Z = 19.43		428	BINOMIAL
46											1.13	1.37	426	
51	.52	1.82	0.00	1.82	1.56	4.69	8.85	13.54	23.18	44.01	7.76	2.26	384	
52	0.00	3.95	6.28	24.80	13.49	8.60	5.81	6.51	3.72	26.74	3.86	1.59	299	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

LDN = 60 DB (SITES 1005, 0503, 1607, 0404, 0007, 0403)

NUMBER OF RESPONDENTS = 515

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	65.83	34.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	.47	515	
3	0.00	1.18	6.90	9.07	6.31	4.34	7.10	3.75	5.52	55.82	7.05	2.59	507	
4	0.00	27.96	41.75	23.30	4.66	1.55	0.00	0.00	.39	.39	2.09	.91	511	
5	0.00	21.36	72.23	0.00	0.00	0.00	0.00	0.00	2.72	3.69	Z = -11.93		482	BINOMIAL
6	0.00	6.21	74.17	0.00	0.00	0.00	0.00	0.00	9.32	10.29	Z = -17.20		414	BINOMIAL
7	0.00	10.29	57.67	0.00	0.00	0.00	0.00	0.00	15.53	16.50	Z = -13.04		350	BINOMIAL
8	0.00	5.44	29.54	0.00	0.00	0.00	0.00	0.00	32.62	33.40	Z = -9.00		175	BINOMIAL
9	0.00	25.05	73.59	0.00	0.00	0.00	0.00	0.00	.97	.39	Z = -11.09		539	BINOMIAL
10	0.00	.97	23.30	0.00	0.00	0.00	0.00	0.00	.19	75.53	Z = -10.29		125	BINOMIAL
						NOISE								
11	0.00	65.83	26.60	6.99	0.00	0.00	0.00	0.00	.39	0.00	Z = 9.20		513	BINOMIAL
12-A	.29	0.00	6.78	41.00	41.89	8.86	0.00	0.00	.29	.88	3.53	.79	335	
12-B	0.00	0.00	17.32	52.90	26.71	4.35	0.00	0.00	.72	0.00	3.26	.73	137	
13	0.00	56.31	43.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 2.56		515	BINOMIAL
14	0.00	6.67	26.22	41.33	16.89	8.44	0.00	0.00	0.00	.44	2.94	1.02	224	
15	0.00	24.89	8.44	20.44	21.33	23.11	0.00	0.00	.89	.89	3.11	1.50	221	
16	0.00	34.22	.44	2.22	57.33	2.22	0.00	0.00	2.67	.89	2.91	1.46	217	
17	0.00	32.89	44.44	20.00	0.00	0.00	0.00	0.00	1.33	1.33	1.87	.73	219	
18	0.00	26.78	20.89	52.00	0.00	0.00	0.00	0.00	.44	.89	2.27	.85	222	
						SOURCES								
19	64.89	8.89	10.22	5.33	6.22	3.11	0.00	0.00	0.00	1.33	.87	1.43	222	
20	35.56	23.56	13.33	13.78	8.00	4.44	0.00	0.00	0.00	1.33	1.48	1.51	222	
21	24.89	18.22	15.56	12.44	17.33	10.22	0.00	0.00	0.00	1.33	2.10	1.72	222	
22	31.11	33.33	12.44	11.11	8.44	1.78	0.00	0.00	0.00	1.78	1.37	1.35	221	
23	37.78	28.44	12.89	4.44	10.67	4.89	0.00	0.00	0.00	.89	1.36	1.52	223	
24	63.56	18.67	4.44	2.22	6.22	4.00	0.00	0.00	0.00	.89	.80	1.39	223	
25	60.89	24.44	6.67	3.56	2.67	.44	0.00	0.00	.44	.89	.62	1.00	222	
26	16.44	14.67	15.56	23.56	22.22	8.44	0.00	0.00	.89	1.33	2.44	1.56	220	
27	45.78	13.33	8.44	8.89	8.89	4.44	0.00	0.00	.44	9.78	1.29	1.61	232	
28	20.49	23.56	14.22	15.56	13.33	2.67	0.00	0.00	0.00	9.78	1.83	1.48	203	
29	49.33	20.44	6.67	7.56	3.11	2.67	0.00	0.00	0.00	10.22	.92	1.32	202	
30	42.67	16.89	5.00	10.22	6.22	5.33	0.00	0.00	0.00	10.67	1.29	1.55	201	
31	21.78	11.56	12.44	14.67	18.67	11.11	0.00	0.00	0.00	9.78	2.33	1.75	203	
32	64.89	14.22	4.44	1.33	1.78	3.11	0.00	0.00	0.00	10.22	.55	1.17	202	
33	51.11	9.78	9.73	11.11	5.33	2.22	0.00	0.00	0.00	10.67	1.06	1.45	201	
34-A	69.78	4.00	4.89	5.33	4.89	4.89	0.00	1.78	0.00	4.44	.90	1.72	215	
34-B	0.00	0.00	12.85	1.78	2.67	.44	0.00	0.00	0.00	82.22	2.47	.84	40	
						ACTIVITY								
35	63.11	2.67	8.00	12.00	9.33	4.00	0.00	0.00	0.00	.89	1.13	1.64	223	
36	56.89	2.22	12.00	8.00	15.11	4.89	0.00	0.00	0.00	.89	1.36	1.75	223	
37	44.44	3.56	10.22	8.44	17.33	15.11	0.00	0.00	0.00	.49	1.96	2.00	223	
38	67.56	4.44	9.33	6.67	8.89	2.22	0.00	0.00	0.00	.89	.91	1.48	223	
39	52.49	1.78	11.11	14.67	11.56	6.67	0.00	0.00	0.00	1.33	1.58	1.77	222	
						INDIVIDUAL								
40	0.00	79.56	19.56	0.00	0.00	0.00	0.00	0.00	0.00	.89	Z = 6.03		223	BINOMIAL
41	0.00	53.79	45.63	0.00	0.00	0.00	0.00	0.00	0.00	.58	Z = 1.86		512	BINOMIAL
42											17.19	5.28	512	
43											36.95	11.54	493	
44	0.00	30.87	45.83	21.55	0.00	0.00	0.00	0.00	1.55	.19	1.91	.72	506	
45	0.00	93.79	5.24	0.00	0.00	0.00	0.00	0.00	.78	.19	Z = 20.19		510	BINOMIAL
46											.55	1.39	503	
51	5.17	7.54	.22	6.25	5.17	10.99	8.62	16.39	15.30	24.35	6.16	3.10	464	
52	0.00	18.64	19.22	19.42	12.23	4.66	2.33	2.52	9.32	11.65	2.77	1.52	407	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

LDN = 65 DB (SITES 0105, 0104, 0506, 0106, 0005)

NUMBER OF RESPONDENTS = 346

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	61.56	38.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	346	
3	0.00	2.64	12.32	6.45	7.33	4.11	4.11	4.40	2.35	56.30	6.77	2.86	341	
4	0.00	6.94	33.24	40.17	11.85	7.51	0.00	0.00	.29	0.00	2.80	1.30	345	
5	0.00	13.01	73.99	0.00	0.00	0.00	0.00	0.00	4.91	8.09	Z = -12.16		301	BINOMIAL
6	0.00	7.80	61.56	0.00	0.00	0.00	0.00	0.00	7.51	23.12	Z = -12.91		240	BINOMIAL
7	0.00	12.14	60.40	0.00	0.00	0.00	0.00	0.00	13.87	13.58	Z = -10.54		251	BINOMIAL
8	0.00	3.76	40.46	0.00	0.00	0.00	0.00	0.00	20.81	34.97	Z = -10.27		153	BINOMIAL
9	0.00	32.68	64.74	0.00	0.00	0.00	0.00	0.00	2.02	.58	Z = -6.05		337	BINOMIAL
10	0.00	1.45	30.35	0.00	0.00	0.00	0.00	0.00	.29	67.62	Z = -9.53		110	BINOMIAL
						NOISE								
11	0.00	44.22	47.40	8.38	0.00	0.00	0.00	0.00	0.00	0.00	Z = -.62		346	BINOMIAL
12-A	1.31	0.00	9.15	57.52	27.45	3.92	0.00	0.00	0.00	.65	3.22	.77	152	
12-B	0.00	0.00	17.07	34.76	35.98	12.20	0.00	0.00	0.00	0.00	3.43	.91	164	
13	0.00	48.55	51.16	0.00	0.00	0.00	0.00	0.00	0.00	.29	Z = -.42		345	BINOMIAL
14	0.00	7.34	18.64	37.85	24.29	11.30	0.00	0.00	.56	0.00	3.14	1.03	176	
15	0.00	12.00	9.60	10.17	22.60	36.72	0.00	0.00	2.82	6.00	3.59	1.52	172	
16	0.00	24.86	0.00	4.52	66.10	1.13	0.00	0.00	3.39	0.00	3.19	1.31	171	
17	0.00	28.81	45.20	21.47	0.00	0.00	0.00	0.00	3.95	.56	1.92	.72	169	
18	0.00	20.34	24.86	54.24	0.00	0.00	0.00	0.00	0.00	.56	2.34	.80	176	
						SOURCES								
19	45.76	15.25	12.43	11.30	10.73	3.95	0.00	0.00	0.00	.56	1.38	1.58	176	
20	14.12	22.88	19.77	12.99	20.34	6.21	0.00	0.00	0.00	.56	2.18	1.52	176	
21	21.47	18.08	12.99	9.04	25.42	12.43	0.00	0.00	0.00	.56	2.36	1.78	176	
22	36.72	35.59	14.69	6.21	4.52	1.69	0.00	0.00	0.00	.56	1.11	1.20	176	
23	32.29	36.18	14.12	3.39	3.95	3.39	0.00	0.00	.56	1.13	1.09	1.25	174	
24	51.98	17.51	11.30	4.52	9.60	4.52	0.00	0.00	0.00	.56	1.15	1.55	176	
25	59.32	25.99	4.52	2.82	4.52	0.00	0.00	0.00	0.00	2.82	.63	1.03	172	
26	10.73	25.42	17.51	16.64	20.90	4.52	0.00	0.00	0.00	2.26	2.28	1.44	173	
27	51.98	15.25	3.39	3.95	7.91	5.65	0.00	0.00	.56	11.30	1.06	1.62	156	
28	13.56	29.38	14.12	15.25	14.12	2.82	0.00	0.00	0.00	10.73	1.95	1.42	158	
29	31.07	23.16	14.69	10.17	6.78	1.13	0.00	0.00	.56	12.43	1.33	1.34	154	
30	28.81	23.73	5.65	9.60	14.12	5.08	0.00	0.00	.56	12.43	1.68	1.67	154	
31	24.86	18.08	13.56	8.47	18.08	5.65	0.00	0.00	0.00	11.30	1.93	1.67	157	
32	44.63	23.73	7.91	5.08	5.65	1.69	0.00	0.00	0.00	11.30	.97	1.30	157	
33	28.81	22.03	14.69	15.25	4.52	1.69	0.00	0.00	0.00	12499	1.42	1.34	154	
34-A	64.41	1.13	1.13	3.39	10.17	5.65	0.00	1.13	0.00	12.99	1.04	1.86	154	
34-B	0.00	0.00	10.17	.56	2.26	.56	0.00	0.00	0.00	86.44	2.50	.91	24	
						ACTIVITY								
35	54.24	1.69	9.60	9.60	13.56	9.60	0.00	0.00	0.00	1.69	1.55	1.88	174	
36	52.53	1.69	6.21	7.91	14.12	10.73	0.00	0.00	0.00	1.69	1.51	1.94	174	
37	40.11	1.13	9.60	7.91	24.29	15.82	0.00	0.00	0.00	1.13	2.23	2.02	175	
38	64.97	3.35	7.34	9.60	9.60	3.39	0.00	0.00	0.00	1.69	1.04	1.60	174	
39	54.24	2.26	9.04	8.47	14.69	9.04	0.00	0.00	.56	1.69	1.53	1.88	173	
						INDIVIDUAL								
40	0.00	80.79	19.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 6.16		177	BINOMIAL
41	0.00	58.67	41.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 3.23		346	BINOMIAL
42											16.33	5.34	338	
43											37.13	12.05	337	
44	0.00	38.73	36.42	21.10	0.00	0.00	0.00	0.00	2.31	1.45	1.82	.77	333	
45	0.00	91.91	6.69	0.00	0.00	0.00	0.00	0.00	1.45	0.00	Z = 15.98		341	BINOMIAL
46											.63	1.35	336	
51	.63	22.47	.32	15.19	3.48	5.18	8.86	14.56	7.59	17.72	5.04	2.93	316	
52	0.00	32.66	23.41	15 03	5.78	3.76	.58	.58	6.07	12.14	2.13	1.25	263	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

LON = 70 00 (SITES 0511, 1001, 0006, 0502)

NUMBER OF RESPONDENTS = 336

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.50	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.48	336	
3	0.00	2.38	22.92	11.90	7.74	7.44	6.85	5.36	3.27	32.14	5.46	2.92	336	
4	0.00	23.81	39.29	27.98	5.95	2.08	0.00	0.00	.60	.30	2.23	.95	333	
5	0.00	8.37	84.23	0.00	0.00	0.00	0.00	0.00	.30	7.14	Z =	-14.46	311	BINOMIAL
6	0.00	2.99	87.16	0.00	0.00	0.00	0.00	0.00	9.82	1.35	Z =	-14.13	238	BINOMIAL
7	0.00	11.31	60.12	0.00	0.00	0.00	0.00	0.00	5.06	23.51	Z =	-10.59	240	BINOMIAL
8	0.00	5.95	29.46	0.00	0.00	0.00	0.00	0.00	17.36	47.32	Z =	-7.24	119	BINOMIAL
9	0.00	29.60	70.54	0.00	0.00	0.00	0.00	0.00	3.97	0.00	Z =	-8.40	323	BINOMIAL
10	0.00	.60	24.11	0.00	0.00	0.00	0.00	0.00	.60	74.70	Z =	-8.67	83	BINOMIAL
						NOISE								
11	0.00	49.11	38.69	12.20	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.04	336	BINOMIAL
12-A	.61	0.00	8.48	59.39	24.06	4.85	0.00	0.00	0.00	.61	3.26	.73	164	
12-B	0.00	0.00	9.23	43.08	32.69	10.00	0.00	0.00	0.00	0.00	3.48	.80	130	
13	0.00	47.92	51.45	0.00	0.00	0.00	0.00	0.00	0.00	.60	Z =	-.66	334	BINOMIAL
14	0.00	4.62	29.48	27.75	27.75	10.40	0.00	0.00	0.00	0.00	3.10	1.08	173	
15	0.00	12.14	11.29	12.14	30.06	29.43	0.00	0.00	2.31	.59	3.53	1.37	169	
16	0.00	37.57	.58	4.62	54.91	.58	0.00	0.00	1.73	0.00	2.80	1.44	173	
17	0.00	34.68	37.57	26.01	0.00	0.00	0.00	0.00	1.73	0.00	1.91	.74	170	
18	0.00	14.45	19.08	65.90	0.00	0.00	0.00	0.00	.58	0.00	2.52	.74	172	
						SOURCES								
19	56.07	7.51	9.83	9.25	9.83	7.51	0.00	0.00	0.00	0.00	1.32	1.74	173	
20	23.12	25.43	21.97	9.83	15.03	4.62	0.00	0.00	0.00	0.00	1.82	1.50	173	
21	36.99	26.01	12.14	7.51	14.45	2.89	0.00	0.00	0.00	0.30	1.46	1.53	173	
22	36.42	30.64	15.03	10.98	5.78	1.16	0.00	0.00	0.00	0.00	1.23	1.27	173	
23	63.59	23.70	7.51	1.73	.58	0.00	0.00	0.00	1.16	1.73	.48	.76	166	
24	56.96	14.45	5.78	7.51	10.98	2.31	0.00	0.00	0.00	1.30	1.04	1.52	173	
25	75.72	15.03	2.89	2.89	1.73	.58	0.00	0.00	0.00	1.16	.40	.89	171	
26	12.72	5.83	19.66	19.08	26.59	5.83	0.00	0.00	.58	1.73	2.68	1.53	169	
27	36.99	13.29	9.83	5.20	16.18	4.05	0.00	0.00	.58	13.87	1.56	1.71	148	
28	6.16	24.29	15.61	20.81	13.87	5.20	0.00	0.00	0.00	13.87	2.32	1.32	149	
29	29.44	24.86	5.78	14.45	5.78	5.20	0.00	0.00	.58	13.87	1.51	1.56	148	
30	24.86	14.45	5.78	14.45	17.92	8.09	0.00	0.00	.58	13.87	2.12	1.78	148	
31	15.61	17.34	9.25	13.29	20.81	11.40	0.00	0.00	0.00	13.29	2.43	1.71	150	
32	36.99	21.97	6.36	7.51	7.51	5.20	0.00	0.00	0.30	14.45	1.32	1.59	158	
33	12.14	26.59	10.40	19.65	12.72	4.62	0.00	0.00	0.00	13.87	2.09	1.47	149	
34-A	56.65	2.89	5.20	2.89	13.87	7.51	0.00	2.89	0.00	8.09	1.47	2.09	159	
34-B	0.00	0.00	25.43	1.16	7.51	1.16	0.00	0.00	0.00	64.74	2.56	.63	61	
						ACTIVITY								
35	53.76	3.47	6.36	12.14	21.39	2.89	0.00	0.00	0.00	0.00	1.53	1.79	173	
36	62.43	2.31	4.62	6.36	15.61	8.09	0.00	0.00	0.00	.58	1.34	1.68	172	
37	35.84	3.47	9.83	8.09	28.90	13.87	0.00	0.00	0.00	0.00	2.32	1.96	173	
38	53.76	3.47	11.56	4.05	19.65	6.94	0.00	0.00	0.00	.58	1.53	1.85	172	
39	42.77	4.62	8.09	12.72	21.97	9.25	0.00	0.00	.58	0.00	1.94	1.90	172	
						INDIVIDUAL								
40	0.00	82.66	17.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.53	173	BINOMIAL
41	0.00	75.60	24.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	9.32	336	BINOMIAL
42											17.97	5.37	330	
43											37.41	11.51	320	
44	0.00	41.67	35.42	20.83	0.00	0.00	0.00	0.00	1.49	.60	1.79	.77	329	
45	0.00	92.86	5.65	0.00	0.00	0.00	0.00	0.00	1.19	.30	Z =	16.10	321	BINOMIAL
46											1.16	1.90	311	
51	1.97	11.48	.33	4.92	5.90	10.49	7.54	8.52	14.76	34.10	6.33	2.84	305	
52	0.00	24.40	19.05	14.58	7.44	5.36	2.38	5.36	7.74	13.69	2.73	1.77	264	

BOLT BERANEK AND NEWMAN INC. CPA 24 SITE SURVEY

HIGH POPULATION DENSITY SAMPLE (SITES 0511, 1001, 1003, 1005, 0105)

NUMBER OF RESPONDENTS = 389

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.47	37.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.48	389	
3	0.00	2.07	17.62	15.80	8.81	6.99	5.70	3.89	2.85	36.27	5.66	2.91	386	
4	0.00	17.99	34.96	34.19	8.48	3.34	0.00	0.00	.77	.26	2.44	.99	385	
5	0.00	7.46	82.78	0.00	0.00	0.00	0.00	0.00	1.80	7.97	Z =	-15.64	351	BINOMIAL
6	0.00	3.86	68.38	0.00	0.00	0.00	0.00	0.00	4.88	22.88	Z =	-14.97	281	BINOMIAL
7	0.00	17.99	56.81	0.00	0.00	0.00	0.00	0.00	4.63	20.57	Z =	-8.85	291	BINOMIAL
8	0.00	4.37	36.50	0.00	0.00	0.00	0.00	0.00	12.85	46.27	Z =	-9.91	159	BINOMIAL
9	0.00	25.19	70.44	0.00	0.00	0.00	0.00	0.00	4.37	0.00	Z =	-9.13	372	BINOMIAL
10	0.00	2.06	21.59	0.00	0.00	0.00	0.00	0.00	.77	75.58	Z =	-7.92	92	BINOMIAL
						NOISE								
11	0.00	47.81	42.67	9.25	0.00	0.00	0.00	0.00	.26	0.00	Z =	1.07	388	BINOMIAL
12-A	.54	0.00	10.75	55.91	25.27	7.53	0.00	0.00	0.00	0.00	3.28	.79	186	
12-B	0.00	0.00	12.05	40.96	40.96	6.02	0.00	0.00	0.00	0.00	3.41	.78	166	
13	0.00	49.61	49.61	0.00	0.00	0.00	0.00	0.00	0.00	.77	Z =	0.00	386	BINOMIAL
14	0.00	3.63	24.87	29.53	31.09	10.88	0.00	0.00	0.00	0.00	3.21	1.05	193	
15	0.00	16.58	10.88	9.86	27.98	32.64	0.00	0.00	1.55	.52	3.50	1.47	189	
16	0.00	41.97	.52	4.15	47.67	.52	0.00	0.00	5.18	0.00	2.62	1.47	183	
17	0.00	33.68	44.56	20.73	0.00	0.00	0.00	0.00	1.04	0.00	1.87	.73	191	
18	0.00	15.03	13.99	70.47	0.00	0.00	0.00	0.00	.52	0.00	2.56	.74	192	
19	54.92	13.47	7.77	8.81	9.84	5.18	0.00	0.00	0.00	0.00	1.21	1.63	193	
						SOURCES								
20	18.13	19.69	23.32	14.51	16.58	7.77	0.00	0.00	0.00	0.00	2.15	1.55	193	
21	41.45	15.03	12.95	7.25	18.65	4.15	0.00	0.00	0.00	.52	1.59	1.69	192	
22	45.40	29.53	11.92	4.66	5.70	2.07	0.00	0.00	.52	0.00	1.01	1.27	192	
23	44.56	27.98	11.92	4.15	5.70	3.11	0.00	0.00	1.55	1.04	1.05	1.34	188	
24	54.40	10.88	7.25	8.29	12.44	6.22	0.00	0.00	0.00	.52	1.32	1.73	192	
25	86.01	8.81	2.07	1.55	1.04	0.00	0.00	0.00	0.00	.52	.22	.66	192	
26	14.51	11.40	19.69	21.24	24.87	6.74	0.00	0.00	0.00	1.55	2.52	1.51	190	
27	44.04	11.92	9.33	6.22	12.44	3.11	0.00	0.00	.52	12.44	1.32	1.63	168	
28	11.40	20.21	19.69	19.69	13.47	3.11	0.00	0.00	0.00	12.44	2.15	1.37	169	
29	39.90	19.17	8.81	9.84	5.70	2.07	0.00	0.00	1.04	13.47	1.15	1.41	165	
30	30.57	16.58	9.33	12.95	11.92	4.66	0.00	0.00	1.04	12.95	1.69	1.65	166	
31	17.62	13.47	14.51	12.95	20.73	7.77	0.00	0.00	0.00	12.95	2.33	1.66	168	
32	48.70	14.51	5.70	6.74	7.25	3.63	0.00	0.00	0.00	13.47	1.08	1.54	167	
33	24.35	19.17	9.33	22.28	9.33	1.55	0.00	0.00	0.00	13.99	1.74	1.46	166	
34-A	59.07	5.70	4.66	6.22	8.29	5.18	0.00	1.55	0.00	9.33	1.14	1.82	175	
34-B	0.00	0.00	14.51	1.55	6.74	2.07	0.00	0.00	0.00	75.13	2.65	1.08	48	
35	55.44	2.59	12.44	9.33	18.13	1.55	0.00	0.00	0.00	.52	1.36	1.68	192	
						ACTIVITY								
36	59.07	3.63	4.81	7.77	13.47	6.74	0.00	0.00	0.00	.52	1.33	1.79	192	
37	35.23	5.18	14.51	10.88	21.76	10.88	0.00	0.00	0.00	1.55	2.12	1.86	190	
38	63.21	3.11	9.33	5.70	16.58	1.04	0.00	0.00	0.00	1.04	1.12	1.62	191	
39	42.49	3.63	12.95	10.06	10.58	6.22	0.00	0.00	.52	1.55	1.79	1.77	189	
40	0.00	82.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.58	193	BINOMIAL
						INDIVIDUAL								
41	0.00	90.75	8.74	0.00	0.00	0.00	0.00	0.00	.26	.26	Z =	16.22	387	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.27	5.22	378	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.61	11.48	375	
44	0.00	33.68	40.62	21.65	0.00	0.00	0.00	0.00	3.08	.77	1.88	.75	374	
45	0.00	94.09	3.60	0.00	0.00	0.00	0.00	0.00	2.31	0.00	Z =	18.06	380	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.73	1.56	387	
51	1.74	14.49	.27	10.72	4.00	8.99	8.70	11.59	14.20	25.22	5.82	2.40	345	
52	0.00	28.79	23.65	15.42	6.68	3.60	1.29	3.08	6.68	10.80	2.38	1.51	321	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

LOW POPULATION DENSITY SAMPLE (SITES 0005, 1502, 1503, 0403, 1609)

NUMBER OF RESPONDENTS = 386

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	63.47	36.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	.48	386	
3	0.00	0.00	7.83	13.84	11.49	9.14	7.57	8.88	9.66	31.59	6.18	2.52	383	
4	0.00	51.30	38.08	8.81	1.30	.26	0.00	0.00	0.00	.26	1.61	.72	385	
5	0.00	16.06	81.35	0.00	0.00	0.00	0.00	0.00	2.07	.52	Z =	-13.00	376	BINOMIAL
6	0.00	11.92	76.48	0.00	0.00	0.00	0.00	0.00	8.81	2.59	Z =	-13.52	342	BINOMIAL
7	0.00	7.77	62.69	0.00	0.00	0.00	0.00	0.00	20.47	9.07	Z =	-12.85	272	BINOMIAL
8	0.00	6.48	32.38	0.00	0.00	0.00	0.00	0.00	40.16	23.98	Z =	-8.16	150	BINOMIAL
9	0.00	12.18	86.53	0.00	0.00	0.00	0.00	0.00	1.04	.26	Z =	-14.70	381	BINOMIAL
10	0.00	0.00	11.92	0.00	0.00	0.00	0.00	0.00	0.00	88.08	Z =	-6.78	46	BINOMIAL
NOISE														
11	0.00	83.16	12.69	4.15	0.00	0.00	0.00	0.00	0.00	0.00	Z =	14.14	386	BINOMIAL
12-A	0.00	0.00	7.17	37.07	44.24	10.28	0.00	0.00	.62	.62	3.58	.77	317	
12-B	0.00	0.00	29.41	46.94	22.45	10.20	0.00	0.00	0.00	0.00	3.22	.89	49	
13	0.00	62.95	36.79	0.00	0.00	0.00	0.00	0.00	0.00	.26	Z =	5.15	385	BINOMIAL
14	0.00	5.63	39.44	29.58	17.61	5.63	0.00	0.00	0.00	2.11	2.78	1.00	139	
15	0.00	36.62	6.34	19.72	15.49	17.61	0.00	0.00	1.41	2.82	2.70	1.55	136	
16	0.00	34.51	1.41	7.75	50.70	.70	0.00	0.00	.70	4.23	2.81	1.41	135	
17	0.00	34.51	41.55	21.13	0.00	0.00	0.00	0.00	.70	2.11	1.86	.74	138	
18	0.00	23.94	31.69	41.55	0.00	0.00	0.00	0.00	0.00	2.82	2.18	.80	138	
19	60.56	11.27	9.15	7.04	8.45	.70	0.00	0.00	0.00	2.82	.91	1.38	138	
SOURCES														
20	47.18	28.17	11.97	9.15	1.41	0.00	0.00	0.00	0.00	2.11	.87	1.04	139	
21	15.49	16.90	22.54	14.08	19.01	9.86	0.00	0.00	0.00	2.11	2.35	1.59	139	
22	38.73	30.99	11.27	7.04	9.15	1.41	0.00	0.00	0.00	1.41	1.20	1.35	140	
23	33.80	29.58	9.15	7.04	11.97	4.93	0.00	0.00	0.00	3.52	1.47	1.57	137	
24	73.94	8.45	4.93	2.11	2.11	4.23	0.00	0.00	0.00	4.23	.57	1.28	136	
25	39.44	28.87	14.08	9.86	2.82	2.11	0.00	0.00	0.00	2.82	1.12	1.25	138	
26	23.94	16.90	20.42	11.97	10.56	4.93	0.00	0.00	0.00	11.27	1.81	1.53	126	
27	35.92	23.24	3.52	8.45	6.34	.70	0.00	0.00	0.00	21.83	1.08	1.34	111	
28	23.94	26.76	9.86	9.15	7.04	2.11	0.00	0.00	0.00	21.13	1.43	1.39	112	
29	47.18	23.24	4.23	1.41	2.11	.70	0.00	0.00	0.00	21.13	.61	.98	112	
30	42.25	16.20	7.75	7.75	3.52	2.11	0.00	0.00	0.00	20.42	1.00	1.36	113	
31	16.20	10.56	13.38	14.08	15.49	8.45	0.00	0.00	0.00	21.83	2.35	1.67	111	
32	37.75	10.56	3.52	4.93	.70	2.11	0.00	0.00	0.00	20.42	.58	1.16	113	
33	56.34	10.56	4.93	3.52	3.52	.70	0.00	0.00	0.00	20.42	.61	1.16	113	
34-A	66.20	3.52	2.82	4.93	4.23	4.23	0.00	.70	0.00	13.38	.77	1.58	123	
34-B	0.00	0.00	17.61	1.41	1.41	.70	0.00	0.00	0.00	78.87	2.30	.74	30	
35	75.35	2.11	3.52	9.15	3.52	3.52	0.00	0.00	0.00	2.82	.70	1.42	138	
ACTIVITY														
36	63.38	2.11	10.56	9.86	7.04	3.52	0.00	0.00	0.00	3.52	1.02	1.55	137	
37	44.37	4.93	7.75	10.56	15.49	13.38	0.00	0.00	0.00	3.52	1.88	1.97	137	
38	72.54	2.82	8.45	3.52	7.75	1.41	0.00	0.00	0.00	3.52	.71	1.36	137	
39	59.86	2.11	7.04	10.56	10.56	7.04	0.00	0.00	0.00	2.82	1.29	1.78	138	
40	0.00	76.06	20.42	0.00	0.00	0.00	0.00	0.00	0.00	3.52	Z =	5.66	137	BINOMIAL
INDIVIDUAL														
41	0.00	67.82	32.12	0.00	0.00	0.00	0.00	0.00	.26	0.00	Z =	6.98	385	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.87	5.05	381	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.34	10.37	363	
44	0.00	29.27	38.27	33.68	0.00	0.00	0.00	0.00	.78	0.00	2.04	.80	383	
45	0.00	95.08	4.66	0.00	0.00	0.00	0.00	0.00	0.00	.26	Z =	17.79	385	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.47	383	
51	1.41	2.82	0.00	3.10	3.10	7.32	5.07	14.65	18.31	44.23	7.39	2.15	355	
52	0.00	.78	9.59	25.65	15.03	10.88	6.92	8.81	6.99	17.36	4.00	1.55	292	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF HIGH - LOW POPULATION DENSITY SAMPLES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.00		
3	0.00	2.07	9.78	1.96	-2.68	-2.14	-1.87	-4.99	-6.81	4.68	-.52	.39		
4	0.00	-33.30	-3.12	25.36	7.19	3.08	0.00	0.00	.77	-.00	.83	.27		
5	0.00	-8.61	1.43	0.00	0.00	0.00	0.00	0.00	-.27	7.45	Z =	-2.64	BINOMIAL	
6	0.00	-8.06	-9.38	0.00	0.00	0.00	0.00	0.00	-3.92	20.29	Z =	-1.45	BINOMIAL	
7	0.00	10.22	-5.88	0.00	0.00	0.00	0.00	0.00	-15.84	11.50	Z =	4.00	BINOMIAL	
8	0.00	-2.11	4.12	0.00	0.00	0.00	0.00	0.00	-27.30	25.29	Z =	-1.75	BINOMIAL	
9	0.00	13.02	-16.09	0.00	0.00	0.00	0.00	0.00	3.33	-.26	Z =	5.58	BINOMIAL	
10	0.00	2.06	9.58	0.00	0.00	0.00	0.00	0.00	.77	-12.50	Z =	-1.14	BINOMIAL	
						NOISE								
11	0.00	-35.35	29.98	5.11	0.00	0.00	0.00	0.00	.26	0.00	Z =	-13.07	BINOMIAL	
12-A	.54	0.00	3.59	18.84	-18.97	-2.75	0.00	0.00	-.62	-.62	-.30	.02		
12-B	0.00	0.00	-8.36	-5.97	18.51	-4.18	0.00	0.00	0.00	0.00	.19	-.11		
13	0.00	-13.34	12.83	0.00	0.00	0.00	0.00	0.00	0.00	.51	Z =	-5.15	BINOMIAL	
14	0.00	-2.01	-14.57	-.04	13.48	5.25	0.00	0.00	0.00	-2.11	.43	.05		
15	0.00	-20.04	4.54	-9.07	12.49	15.04	0.00	0.00	.15	-2.30	.80	-.08		
16	0.00	7.46	-.89	-3.60	-3.04	-.19	0.00	0.00	4.48	-4.23	-.18	.06		
17	0.00	-.63	3.01	-.40	0.00	0.00	0.00	0.00	.33	-2.11	.01	-.01		
18	0.00	-8.92	-17.70	28.92	0.00	0.00	0.00	0.00	.52	-2.82	.38	-.06		
19	-5.64	2.20	-1.38	1.77	1.39	4.48	0.00	0.00	0.00	-2.82	.30	.25		
						SOURCES								
20	-29.65	-8.48	11.34	5.35	15.17	7.77	0.00	0.00	0.00	-2.11	1.28	.51		
21	25.96	-1.88	-9.58	-6.83	-.36	-5.71	0.00	0.00	0.00	-1.59	-.76	.10		
22	6.86	-1.45	.65	-2.38	-3.46	.66	0.00	0.00	.52	-1.41	-.19	-.08		
23	10.76	-1.60	2.78	-2.90	-6.27	-1.82	0.00	0.00	1.55	-2.48	-.41	-.23		
24	-19.54	2.43	2.32	6.18	10.32	1.49	0.00	0.00	0.00	-3.71	.75	.45		
25	46.57	-20.06	-12.01	-8.30	-1.78	-2.11	0.00	0.00	0.00	-2.30	-.90	-.59		
26	-9.44	-5.50	-.73	9.27	14.31	1.81	0.00	0.00	0.00	-9.71	-.71	-.02		
27	8.13	-11.32	5.81	-2.23	6.10	2.40	0.00	0.00	.52	-9.40	.23	.29		
28	-12.54	-6.55	9.83	10.53	6.43	1.00	0.00	0.00	0.00	-8.69	.72	-.02		
29	-7.29	-4.07	4.58	8.44	3.59	1.37	0.00	0.00	1.04	-7.66	.56	.44		
30	-11.68	.38	1.58	5.21	8.40	2.55	0.00	0.00	1.04	-7.47	.69	.29		
31	1.42	2.91	1.13	-1.13	5.23	-.68	0.00	0.00	0.00	-8.88	-.02	-.01		
32	-9.84	3.94	2.18	1.81	8.55	1.51	0.00	0.00	0.00	-6.95	.50	.38		
33	-31.99	8.61	4.40	18.76	5.81	.85	0.00	0.00	0.00	-6.43	1.13	.31		
34-A	-7.13	2.16	1.85	1.29	4.06	.96	0.00	.85	0.00	-4.05	.37	.24		
34-B	0.00	0.00	-3.10	.15	5.33	1.37	0.00	0.00	0.00	-3.74	.55	.34		
35	-19.91	.48	8.91	.17	14.61	-1.97	0.00	0.00	0.00	-2.30	.66	.26		
						ACTIVITY								
36	-4.31	1.51	-1.76	-2.09	6.43	3.21	0.00	0.00	0.00	-3.00	.31	.23		
37	-9.13	.25	6.76	.32	6.27	-2.50	0.00	0.00	0.00	-1.97	.24	-.11		
38	-9.32	.29	.88	2.10	8.83	-.37	0.00	0.00	0.00	-2.48	.41	.26		
39	-17.37	1.51	5.91	5.50	8.02	-.82	0.00	0.00	.52	-1.26	.50	-.01		
40	0.00	6.85	-3.32	0.00	0.00	0.00	0.00	0.00	0.00	-3.52	Z =	.92	BINOMIAL	
						INDIVIDUAL								
41	0.00	23.13	-23.38	0.00	0.00	0.00	0.00	0.00	-.00	.26	Z =	9.23	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.40	.17		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.73	1.11		
44	0.00	4.40	4.35	-11.83	0.00	0.00	0.00	0.00	2.31	-.77	-.17	-.05		
45	0.00	-.99	-1.06	0.00	0.00	0.00	0.00	0.00	2.31	-.26	Z =	.27	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.87	.10		
51	.33	11.68	.29	7.63	.96	1.66	-3.63	-3.05	-4.11	-19.01	-1.56	-.75		
52	0.00	28.01	14.06	-10.22	-8.34	-7.28	-3.64	-5.72	-.31	-6.56	-1.62	-.03		

POPULATION DENSITY = 2003 (SITES 1503, 1609, 1501, 1502, 0005, 0403)

NUMBER OF RESPONDENTS = 461

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	63.56	36.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	.48	461	
3	0.00	0.00	7.42	12.88	10.70	8.52	8.08	8.30	9.39	34.72	6.33	2.52	458	
4	0.00	52.71	37.53	8.24	1.08	.22	0.00	0.00	0.00	.22	1.58	.71	460	
5	0.00	18.00	75.96	0.00	0.00	0.00	0.00	0.00	2.60	.43	Z = -13.20		447	BINOMIAL
6	0.00	11.06	76.36	0.00	0.00	0.00	0.00	0.00	10.20	2.39	Z = -14.99		483	BINOMIAL
7	0.00	8.33	62.47	0.00	0.00	0.00	0.00	0.00	21.04	8.46	Z = -13.62		325	BINOMIAL
8	0.00	6.51	29.91	0.00	0.00	0.00	0.00	0.00	44.25	19.31	Z = -8.33		169	BINOMIAL
9	0.00	11.90	87.20	0.00	0.00	0.00	0.00	0.00	1.08	.22	Z = -16.36		455	BINOMIAL
10	0.00	0.00	11.50	0.20	0.00	0.00	0.00	0.00	0.00	88.50	Z = -7.28		53	BINOMIAL
						NOISE								
11	0.00	83.08	12.80	4.12	0.00	0.00	0.00	0.00	0.00	0.00	Z = 15.41		461	BINOMIAL
12-A	0.00	0.00	6.53	34.12	43.86	10.44	0.00	0.00	.52	.52	3.59	.76	379	
12-B	0.00	0.00	15.95	54.24	18.64	11.17	0.00	0.00	0.00	0.00	3.22	.95	59	
13	0.00	62.47	37.11	0.00	0.00	0.00	0.00	0.00	0.00	.22	Z = 5.41		460	BINOMIAL
14	0.00	5.23	41.46	30.23	16.28	4.65	0.00	0.00	0.00	1.74	2.73	.98	169	
15	0.00	33.95	5.43	15.77	15.77	15.70	0.00	0.00	1.16	2.33	2.61	1.53	166	
16	0.00	33.72	1.74	6.40	53.49	.58	0.00	0.00	.58	3.49	2.35	1.41	165	
17	0.00	78.95	33.53	13.60	0.00	0.00	0.00	0.00	1.16	1.74	1.79	.74	167	
18	0.00	26.74	33.14	37.79	0.00	0.00	0.00	0.00	0.00	2.33	2.11	.80	168	
						SOURCES								
19	58.72	13.95	8.72	6.40	8.72	1.16	0.00	0.00	0.00	2.33	.63	1.39	168	
20	51.16	27.91	9.59	7.56	1.16	.58	0.00	0.00	0.00	1.74	.79	1.04	169	
21	19.19	17.44	19.19	13.95	18.60	9.88	0.00	0.00	0.00	1.74	2.25	1.64	169	
22	36.63	34.88	10.47	8.14	7.56	1.16	0.00	0.00	0.00	1.16	1.18	1.28	170	
23	33.14	34.30	9.14	6.96	9.68	4.65	0.00	0.00	0.00	2.91	1.33	1.50	167	
24	73.84	9.30	5.23	2.33	2.33	1.49	0.00	0.00	0.00	3.49	.55	1.23	166	
25	37.21	33.14	12.79	9.88	2.33	2.33	0.00	0.00	0.00	2.33	1.12	1.22	168	
26	23.44	15.70	19.77	13.37	10.47	5.23	0.00	0.00	0.00	11.63	1.86	1.55	152	
27	15.47	22.67	2.91	8.14	8.96	1.74	0.00	0.00	0.00	22.09	1.16	1.43	134	
28	23.26	25.58	9.88	8.72	8.14	2.91	0.00	0.00	0.00	21.51	1.51	1.46	135	
29	47.67	22.67	3.45	1.16	1.74	1.74	0.00	0.00	0.00	21.51	.62	1.06	135	
30	42.44	16.28	8.14	6.40	2.91	2.91	0.00	0.00	0.00	20.93	.99	1.37	136	
31	13.37	10.47	13.95	15.70	15.12	9.30	0.00	0.00	0.00	22.09	2.47	1.63	134	
32	55.21	13.37	2.91	4.07	.58	2.33	0.00	0.00	0.00	21.51	.58	1.14	135	
33	55.81	11.63	4.07	2.91	2.91	1.16	0.00	0.00	0.00	21.51	.59	1.14	135	
34-A	63.95	4.07	2.33	4.65	3.49	4.07	0.00	1.74	0.00	15.70	.82	1.69	145	
34-B	0.00	0.00	13.89	1.74	1.74	.58	0.00	0.00	0.00	79.07	2.33	.75	36	
						ACTIVITY								
35	77.91	2.33	2.91	8.14	3.49	2.91	0.00	0.00	0.00	2.33	.63	1.35	168	
36	64.53	3.49	9.30	9.30	6.98	3.49	0.00	0.00	0.00	2.91	.98	1.54	167	
37	47.67	4.65	6.98	9.88	15.70	12.21	0.00	0.00	0.00	2.91	1.77	1.98	167	
38	74.42	3.49	7.56	2.91	6.98	1.74	0.00	0.00	0.00	2.91	.66	1.33	167	
39	61.61	2.91	6.40	12.47	9.88	6.40	0.00	0.00	0.00	2.33	1.21	1.74	168	
						INDIVIDUAL								
40	0.00	79.47	18.02	0.00	0.00	0.00	0.00	0.00	0.00	2.91	Z = 6.20		167	BINOMIAL
41	0.00	72.02	27.55	0.00	0.00	0.00	0.00	0.00	.22	.22	Z = 9.67		459	BINOMIAL
42											17.02	5.09	456	
43											37.42	10.32	436	
44	0.00	26.50	37.06	32.32	0.00	0.00	0.00	0.00	.87	.22	2.03	.79	456	
45	0.00	95.69	3.90	0.00	0.00	0.00	0.00	0.00	0.00	.22	Z = 19.77		460	BINOMIAL
46											1.58	1.46	457	
51	1.20	3.13	0.00	3.37	2.69	7.47	6.27	15.90	17.11	42.65	7.32	2.16	415	
52	0.00	.07	9.11	26.03	15.16	9.76	4.77	7.61	7.16	19.31	3.94	1.52	339	

POPULATION DENSITY = 6300|SITES 1509, 1604, 1607, 0404, 0307, 0105, 0004, 05021

NUMBER OF RESPONDENTS = 669

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.30	63.98	35.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	.49	669	
3	0.00	1.37	8.34	8.35	7.89	4.35	6.37	4.48	3.34	55.39	6.93	2.06	659	
4	0.30	29.00	44.54	20.78	4.48	.90	0.00	0.00	.30	0.00	2.03	.87	667	
5	0.00	17.64	76.92	0.00	0.00	0.00	0.00	0.00	2.54	1.49	Z = -16.34		642	BINOMIAL
6	0.00	8.87	73.55	0.00	0.00	0.00	0.00	0.00	12.71	4.87	Z = -14.23		526	BINOMIAL
7	0.00	10.76	55.01	0.00	0.00	0.00	0.00	0.00	18.54	15.70	Z = -14.11		440	BINOMIAL
8	0.00	5.53	27.35	0.00	0.00	0.00	0.00	0.00	36.77	30.34	Z = -9.84		220	BINOMIAL
9	0.00	18.96	79.12	0.00	0.00	0.00	0.00	0.00	1.20	0.00	Z = -15.53		661	BINOMIAL
10	0.00	.90	17.34	0.00	0.00	0.00	0.00	0.00	0.00	81.76	Z = -9.96		122	BINOMIAL
						CHOICE								
11	0.30	64.72	29.10	5.83	0.00	0.00	0.00	0.00	.15	0.00	Z = 9.45		668	BINOMIAL
12-A	.46	0.00	3.54	47.61	36.49	8.76	0.00	0.00	0.00	.92	3.48	.77	429	
12-B	0.00	0.00	15.33	48.47	27.55	7.14	1.00	0.00	.51	0.00	3.26	.81	196	
13	0.30	56.35	43.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 3.29		669	BINOMIAL
14	0.00	6.61	27.05	39.34	16.07	10.62	0.00	0.00	.68	.68	2.96	1.06	268	
15	0.00	20.19	12.67	19.18	20.21	21.63	0.20	0.00	2.40	1.03	3.13	1.47	282	
16	0.00	34.91	.34	2.74	57.53	1.71	0.00	0.00	1.71	1.03	2.90	1.48	284	
17	0.00	25.68	42.12	26.71	0.00	0.00	0.00	0.00	3.77	1.71	2.01	.74	276	
18	0.00	20.98	26.71	50.34	0.00	0.00	0.00	0.00	.68	1.37	2.30	.80	286	
						SOURCES								
19	52.74	10.27	14.38	10.27	7.53	3.08	0.00	0.00	0.00	1.37	1.18	1.51	268	
20	31.16	25.00	14.73	13.36	9.59	4.11	0.00	0.00	0.00	2.05	1.87	1.50	286	
21	24.32	21.23	14.73	12.67	14.38	11.30	0.00	0.00	0.00	1.37	2.06	1.72	253	
22	31.16	25.48	17.12	12.67	5.48	2.05	0.00	0.00	0.00	2.05	1.37	1.31	286	
23	36.01	30.49	14.38	4.79	6.16	4.79	0.00	0.00	0.00	1.37	1.24	1.42	253	
24	59.93	16.10	8.50	4.45	6.51	2.40	0.00	0.00	0.00	1.71	.87	1.36	287	
25	52.40	27.74	6.85	5.48	3.77	1.03	0.00	0.00	.34	2.40	.80	1.15	284	
26	11.09	15.07	16.44	20.55	23.29	9.93	0.00	0.00	.34	2.40	2.60	1.54	294	
27	42.12	15.41	7.53	6.91	12.67	5.14	0.00	0.00	.34	10.27	1.41	1.69	261	
28	14.10	29.08	14.38	16.78	11.99	2.74	0.00	0.00	0.00	9.93	1.87	1.42	363	
29	36.59	23.63	10.62	11.99	6.16	2.74	0.00	0.00	0.00	10.27	1.33	1.43	262	
30	29.77	19.36	6.85	12.67	12.67	7.53	0.00	0.00	0.00	11.64	1.81	1.72	258	
31	17.81	13.01	12.67	12.33	21.23	13.01	0.00	0.00	0.00	9.93	2.50	1.75	263	
32	50.64	21.92	7.53	4.11	4.11	1.37	0.00	0.00	0.00	10.27	.81	1.21	262	
33	15.95	15.41	15.71	14.38	7.53	2.40	0.00	0.00	0.00	13.62	1.63	1.48	261	
34-A	88.84	1.37	1.42	3.77	6.16	4.79	0.00	3.42	.34	7.88	1.00	1.93	268	
34-B	0.00	0.00	14.38	1.03	2.74	0.00	0.00	0.00	0.00	81.85	2.36	.73	53	
						ACTIVITY								
35	89.93	2.40	8.22	10.27	10.96	6.85	0.00	0.00	0.00	1.37	1.30	1.77	285	
36	58.22	2.05	8.90	7.53	14.38	7.88	0.00	0.00	0.00	1.03	1.41	1.84	289	
37	40.75	1.37	10.62	10.62	17.47	17.47	0.00	0.00	0.00	1.71	2.15	2.02	287	
38	84.84	3.42	10.27	7.53	10.62	2.74	0.00	0.00	0.00	1.37	1.04	1.67	288	
39	52.05	3.42	8.22	11.64	15.79	7.53	0.00	0.00	0.00	1.37	1.58	1.85	289	
						INDIVIDUAL								
40	0.00	79.79	13.15	0.00	0.00	0.00	0.00	0.00	0.00	1.03	Z = 6.09		286	BINOMIAL
41	0.00	55.74	43.66	0.00	0.00	0.00	0.00	0.00	0.00	.60	Z = 4.69		665	BINOMIAL
42											15.99	5.24	651	
43											36.76	11.63	636	
44	0.00	31.99	43.50	22.42	0.00	0.00	0.00	0.00	1.35	.75	1.90	.74	655	
45	0.00	94.02	5.38	0.00	0.00	0.00	0.00	0.00	.45	.15	Z = 23.00		665	BINOMIAL
46											.78	1.29	646	
51	3.54	8.92	.34	5.72	4.21	9.09	7.56	13.64	16.33	30.64	6.43	3.04	594	
52	0.00	18.68	14.95	15.25	10.76	5.98	3.44	3.29	6.88	20.78	2.92	1.69	484	

POPULATION DENSITY = 20000 (SITES 1601, 0503, 0104, 0506, 0036)

NUMBER OF RESPONDENTS = 421

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.10	39.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	.49	421	
3	0.00	2.63	16.03	6.85	6.94	5.98	6.94	3.59	1.67	47.37	6.35	2.94	418	
4	0.00	21.85	36.34	28.74	6.41	5.70	0.00	0.00	.48	.48	2.37	1.07	417	
5	0.00	11.64	78.36	0.00	0.00	0.00	0.00	0.00	2.14	7.84	Z = -14.43		379	BINOMIAL
6	0.00	6.18	65.32	0.00	0.00	0.00	0.00	0.00	12.83	15.66	Z = -14.35		301	BINOMIAL
7	0.00	11.88	61.26	0.00	0.00	0.00	0.00	0.00	13.78	13.06	Z = -11.85		308	BINOMIAL
8	0.00	6.12	35.15	0.00	0.00	0.00	0.00	0.00	29.93	28.74	Z = -9.25		174	BINOMIAL
9	0.00	40.14	57.96	0.00	0.00	0.00	0.00	0.00	1.19	.71	Z = -3.69		413	BINOMIAL
10	0.00	1.43	38.95	0.00	0.00	0.00	0.00	0.00	.71	58.91	Z = -12.12		170	BINOMIAL
						NOISE								
11	0.00	50.12	43.14	9.50	0.00	0.00	0.00	0.00	0.00	.24	Z = 2.15		420	BINOMIAL
12-A	.47	0.00	7.58	54.43	30.81	5.21	0.00	0.00	.47	.47	3.33	.73	235	
12-B	0.00	0.00	9.47	41.42	34.91	14.20	0.00	0.00	0.00	0.00	3.54	.85	169	
13	0.00	46.08	53.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = -1.61		421	BINOMIAL
14	0.00	7.05	25.55	33.04	25.99	8.37	0.00	0.00	0.00	0.00	3.03	1.05	227	
15	0.00	18.50	12.76	11.01	24.67	32.84	0.00	0.00	1.76	.44	3.37	1.50	222	
16	0.00	40.09	.88	3.08	51.98	1.32	0.00	0.00	2.20	.44	2.73	1.47	221	
17	0.00	32.18	39.21	26.87	0.00	0.00	0.00	0.00	1.32	.44	1.95	.77	223	
18	0.00	25.11	23.35	50.66	0.00	0.00	0.00	0.00	.44	.44	2.26	.54	225	
						SOURCES								
19	52.42	10.11	12.78	7.05	9.69	6.61	0.00	0.00	0.00	1.32	1.30	1.68	224	
20	21.35	33.04	14.54	9.25	13.66	5.73	0.00	0.00	0.00	.44	1.74	1.54	226	
21	20.36	28.61	14.98	7.63	19.38	8.37	0.00	0.00	0.00	.44	2.03	1.65	226	
22	29.52	40.53	14.98	8.37	5.29	.44	0.00	0.00	0.00	.88	1.20	1.14	225	
23	43.17	25.52	12.33	5.73	5.29	2.20	0.00	0.00	0.00	1.76	1.05	1.28	223	
24	59.47	21.99	6.17	3.08	7.05	1.76	0.00	0.00	0.00	.88	.81	1.25	225	
25	48.93	34.36	6.17	3.08	5.29	0.00	0.00	0.00	0.00	2.20	.79	1.06	222	
26	12.78	16.30	18.06	19.38	22.03	8.37	0.00	0.00	.88	2.20	2.48	1.53	220	
27	40.93	13.66	7.05	7.93	8.37	6.61	0.00	0.00	.44	15.42	1.40	1.71	191	
28	10.57	25.55	13.66	14.54	14.54	6.17	0.00	0.00	0.00	14.99	2.18	1.91	193	
29	29.52	22.91	13.66	8.37	5.29	4.85	0.00	0.00	0.00	15.42	1.43	1.44	192	
30	27.31	16.74	8.81	11.86	13.22	7.49	0.00	0.00	0.00	14.54	1.88	1.73	194	
31	20.70	16.50	10.13	12.33	15.86	8.81	0.00	0.00	0.00	13.66	2.12	1.72	196	
32	42.73	22.47	3.09	7.93	4.41	4.85	0.00	0.00	0.00	14.54	1.10	1.51	194	
33	27.75	19.35	12.78	10.67	8.81	5.73	0.00	0.00	0.00	14.98	1.65	1.60	193	
34-A	54.63	3.52	6.61	4.85	6.37	7.05	0.00	4.41	0.00	10.57	1.46	2.14	203	
34-B	0.00	0.00	24.23	1.32	4.85	.44	0.00	0.00	0.00	69.16	2.40	.80	70	
						ACTIVITY								
35	56.39	3.08	8.37	10.57	13.22	7.05	0.00	0.00	1.32		1.42	1.81	224	
36	58.55	3.04	8.37	6.17	12.78	9.25	0.00	0.00	1.76		1.36	1.84	223	
37	40.97	2.64	6.17	4.41	26.19	16.74	0.00	0.00	.88		2.27	2.01	225	
38	57.27	6.17	9.69	6.17	11.45	7.93	0.00	0.00	1.32		1.31	1.78	224	
39	52.46	2.20	7.93	11.01	13.66	10.57	0.00	0.00	.44	1.32	1.61	1.91	223	
						INDIVIDUAL								
40	0.00	77.97	21.59	0.00	0.00	0.00	0.00	0.00	0.00	.44	Z = 5.65		226	BINOMIAL
41	0.00	63.90	36.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 5.70		421	BINOMIAL
42											17.31	5.29	417	
43											36.66	11.56	410	
44	0.00	37.05	39.43	21.85	0.00	0.00	0.00	0.00	1.43	.24	1.86	.76	414	
45	0.00	91.69	7.60	0.00	0.00	0.00	0.00	0.00	.48	.24	Z = 17.31		418	BINOMIAL
46											.82	1.51	397	
51	1.29	11.85	0.90	6.46	3.10	8.27	11.11	13.18	17.57	27.13	6.38	3.10	387	
52	0.00	20.19	17.81	19.46	9.98	4.28	1.66	2.38	4.51	19.71	2.67	1.50	319	

POPULATION DENSITY = 63000 (SITES 1005, 0105, 0511, 1001, 1003)

NUMBER OF RESPONDENTS = 385

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.72	37.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	.48	339	
3	0.00	2.07	17.62	11.80	8.81	6.99	5.70	3.89	2.45	36.27	5.66	2.91	336	
4	0.00	18.25	34.96	34.19	8.23	3.34	0.00	0.00	.77	.26	2.43	.99	335	
5	0.00	7.45	83.03	0.00	0.00	0.00	0.00	0.00	1.54	7.97	Z = -15.67		352	BINOMIAL
6	0.00	4.11	68.76	0.00	0.00	0.00	0.00	0.00	4.86	22.62	Z = -14.69		282	BINOMIAL
7	0.00	17.99	56.56	0.00	0.00	0.00	0.00	0.00	4.38	20.57	Z = -8.31		290	BINOMIAL
8	0.00	4.37	36.50	0.00	0.00	0.00	0.00	0.00	13.11	46.02	Z = -9.91		159	BINOMIAL
9	0.00	25.19	70.44	0.00	0.00	0.00	0.00	0.00	4.37	0.00	Z = -9.13		372	BINOMIAL
10	0.00	2.06	21.59	0.00	0.00	0.00	0.00	0.00	.77	75.58	Z = -7.92		92	BINOMIAL
						NOISE								
11	0.00	48.07	42.42	9.25	0.00	0.00	0.00	0.00	.26	0.00	Z = 1.17		338	BINOMIAL
12-A	.53	0.00	10.70	55.61	25.13	8.02	0.00	0.00	0.00	0.00	3.29	.83	187	
12-B	0.00	0.00	31.52	41.21	41.21	6.06	0.00	0.00	0.00	0.00	3.42	.77	165	
13	0.00	49.61	49.61	0.00	0.00	0.00	0.00	0.00	0.00	.77	Z = 0.00		366	BINOMIAL
14	0.00	3.63	24.47	29.53	31.09	10.88	0.00	0.00	0.00	0.00	3.21	1.05	193	
15	0.00	16.58	10.46	9.64	27.96	32.64	0.00	0.00	1.55	.52	3.50	1.47	189	
16	0.00	41.97	.52	4.15	47.67	.52	0.00	0.00	5.18	0.00	2.62	1.47	193	
17	0.00	33.68	44.56	20.73	0.00	0.00	0.00	0.00	1.04	0.00	1.87	.73	191	
18	0.00	15.03	13.99	70.47	0.00	0.00	0.00	0.00	.52	0.00	2.56	.74	192	
						SOURCES								
19	54.92	13.47	7.77	8.81	9.84	5.18	0.00	0.00	0.00	0.00	1.21	1.63	193	
20	18.13	19.69	23.32	14.51	16.58	7.77	0.00	0.00	0.00	0.00	2.15	1.55	193	
21	41.45	15.03	12.95	7.25	18.65	4.15	0.00	0.00	0.00	.52	1.59	1.69	192	
22	45.60	29.53	11.92	4.66	5.70	2.07	0.00	0.00	.52	0.00	1.01	1.27	192	
23	44.56	27.98	11.92	4.15	5.70	3.11	0.00	0.00	1.55	1.04	1.09	1.34	128	
24	54.40	10.88	7.25	8.29	12.44	6.22	0.00	0.00	0.00	.52	1.32	1.73	192	
25	86.01	8.81	2.07	1.55	1.04	0.00	0.00	0.00	0.00	.52	.22	.66	192	
26	14.51	11.40	15.54	21.24	24.87	6.74	0.00	0.00	0.00	1.55	2.52	1.51	193	
27	44.04	11.42	9.33	6.22	12.44	3.11	0.00	0.00	.52	12.44	1.32	1.63	166	
28	11.40	20.21	19.69	19.69	13.47	3.11	0.00	0.00	0.00	12.44	2.15	1.37	169	
29	39.90	19.17	6.81	9.84	5.70	2.07	0.00	0.00	1.04	13.47	1.16	1.41	165	
30	30.57	16.58	9.33	12.95	11.92	4.66	0.00	0.00	1.04	12.95	1.69	1.65	166	
31	17.62	13.47	14.51	12.95	20.73	7.77	0.00	0.00	0.00	12.95	2.23	1.68	168	
32	48.70	14.51	5.70	6.74	7.25	3.63	0.00	0.00	0.00	13.47	1.03	1.54	167	
33	24.35	19.17	9.33	22.23	9.33	1.55	0.00	0.00	0.00	13.99	1.74	1.46	166	
34-A	59.07	5.70	4.66	6.22	8.29	5.18	0.00	1.55	0.00	9.33	1.14	1.82	175	
34-B	0.00	0.00	14.51	1.55	6.74	2.07	0.00	0.00	0.00	75.13	2.65	1.08	48	
						ACTIVITY								
35	55.44	2.59	12.44	9.33	18.13	1.55	0.00	0.00	0.00	.52	1.36	1.68	192	
36	55.37	3.63	8.81	7.77	13.47	6.74	0.00	0.00	0.00	.52	1.33	1.79	192	
37	35.23	5.18	14.51	13.88	21.76	10.88	0.00	0.00	0.00	1.55	2.12	1.66	190	
38	63.21	3.11	9.33	5.70	16.58	1.04	0.00	0.00	0.00	1.04	1.13	1.62	191	
39	42.49	3.63	12.95	14.06	16.58	6.22	0.00	0.00	.52	1.55	1.79	1.77	189	
						INDIVIDUAL								
40	0.00	82.90	17.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 6.56		193	BINOMIAL
41	0.00	91.00	8.48	0.00	0.00	0.00	0.00	0.00	.26	.26	Z = 16.32		387	BINOMIAL
42											17.27	5.23	378	
43											36.61	11.48	375	
44	0.00	33.68	43.62	21.65	0.00	0.00	0.00	0.00	3.08	.77	1.88	.75	374	
45	0.00	93.63	3.60	0.00	0.00	0.00	0.00	0.00	2.31	.26	Z = 15.03		379	BINOMIAL
46											.73	1.56	387	
51	1.74	14.49	.29	10.72	4.06	8.99	8.76	11.30	14.20	25.51	5.83	2.91	345	
52	0.00	24.05	23.69	15.17	6.68	3.60	1.29	3.08	6.68	16.50	2.37	1.52	321	

MALE POPULATION FROM THE TOTAL SAMPLE

NUMBER OF RESPONDENTS = 762

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	762	
3	0.00	2.11	13.65	12.27	8.44	6.07	7.12	5.41	3.96	40.77	6.10	2.85	758	
4	0.00	29.00	41.99	21.92	4.20	2.36	0.00	0.00	.39	.13	2.08	.94	758	
5	0.00	14.30	80.31	0.00	0.00	0.00	0.00	0.00	2.16	3.28	Z =	-18.73	721	BINOMIAL
6	0.00	7.74	84.77	0.00	0.00	0.00	0.00	0.00	11.42	12.07	Z =	-19.26	583	BINOMIAL
7	0.00	13.12	57.48	0.00	0.00	0.00	0.00	0.00	14.83	14.57	Z =	-14.57	538	BINOMIAL
8	0.00	4.77	32.81	0.00	0.00	0.00	0.00	0.00	30.97	30.45	Z =	-12.01	294	BINOMIAL
9	0.00	28.77	71.39	0.00	0.00	0.00	0.00	0.00	1.44	.39	Z =	-12.43	748	BINOMIAL
10	0.00	1.44	24.54	0.00	0.00	0.00	0.00	0.00	.52	73.49	Z =	-12.51	198	BINOMIAL
						NOISE								
11	0.00	99.59	30.45	5.77	6.00	0.00	0.00	0.00	.13	.13	Z =	9.42	760	BINOMIAL
12-A	.62	0.00	6.40	49.38	33.83	8.88	0.00	0.00	.21	.62	3.44	.79	480	
12-B	.43	0.00	12.07	46.55	30.60	10.34	0.00	0.00	0.00	0.00	3.38	.86	232	
13	0.00	53.02	46.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.67	762	BINOMIAL
14	0.00	4.31	29.33	35.47	17.32	11.45	0.00	0.00	.28	.84	3.00	1.07	354	
15	0.00	22.35	13.97	11.17	21.79	28.54	0.00	0.00	3.07	1.12	3.17	1.54	343	
16	0.00	41.98	.84	2.79	48.60	1.68	0.00	0.00	3.07	1.12	2.66	1.49	343	
17	0.00	31.01	37.43	27.65	0.00	0.00	0.00	0.00	3.07	.84	1.97	.78	344	
18	0.00	20.39	21.23	56.15	0.00	0.00	0.00	0.00	1.12	1.12	2.37	.81	350	
19	47.21	14.90	13.69	9.50	9.22	3.91	0.00	0.00	0.00	1.68	1.29	1.55	352	
						SOURCES								
20	28.49	27.37	15.76	12.57	8.31	5.31	0.00	0.00	0.00	1.12	1.60	1.49	354	
21	24.86	26.95	18.99	11.45	13.97	8.10	0.00	0.00	0.00	1.48	1.93	1.63	352	
22	29.61	37.43	13.41	11.61	2.42	1.40	0.00	0.00	0.00	1.12	1.30	1.26	354	
23	38.87	31.44	10.61	5.59	7.54	3.63	0.00	0.00	0.00	1.96	1.21	1.41	351	
24	57.24	14.72	6.98	5.59	6.15	2.79	0.00	0.00	0.00	2.51	.90	1.38	349	
25	57.24	22.35	6.98	6.98	3.07	1.12	0.00	0.00	0.00	2.23	.77	1.16	350	
26	12.67	16.76	16.76	20.11	19.83	8.66	0.00	0.00	.28	5.03	2.46	1.54	339	
27	39.11	14.76	7.26	9.72	10.34	4.75	0.00	0.00	0.00	12.57	1.42	1.65	313	
28	16.68	25.14	14.53	16.76	10.34	4.47	0.00	0.00	0.00	12.29	1.92	1.47	314	
29	35.47	24.86	9.22	10.34	4.75	2.51	0.00	0.00	0.00	12.85	1.21	1.38	312	
30	29.61	28.47	6.98	12.85	11.17	5.87	0.00	0.00	0.00	12.85	1.69	1.66	312	
31	16.68	19.83	12.85	11.41	17.60	7.54	0.00	0.00	0.00	12.29	2.21	1.63	314	
32	46.09	20.39	5.87	9.50	2.23	3.35	0.00	0.00	0.00	12.57	.99	1.37	313	
33	36.87	15.92	13.01	11.17	7.26	3.63	0.00	0.00	0.00	13.13	1.39	1.53	311	
34-A	57.26	4.03	4.75	6.68	6.70	6.15	0.00	2.23	.28	10.61	1.22	1.91	319	
34-B	0.00	0.00	17.88	1.40	3.35	.84	0.00	0.00	0.00	76.54	2.45	.86	84	
35	60.06	3.63	8.94	10.89	10.06	4.47	0.00	0.00	0.00	1.96	1.19	1.66	351	
						ACTIVITY								
36	60.34	5.31	9.50	6.42	9.78	6.42	0.00	0.00	0.00	2.23	1.17	1.70	350	
37	37.15	5.87	10.89	10.89	19.83	13.41	0.00	0.00	0.00	1.96	2.11	1.93	351	
38	62.67	5.87	7.54	6.98	10.89	4.47	0.00	0.00	0.00	1.68	1.10	1.65	352	
39	53.91	4.19	8.38	11.45	12.29	7.54	0.00	0.00	.28	1.96	1.45	1.81	350	
40	0.00	86.17	18.44	0.00	0.00	0.00	0.00	0.00	0.00	1.40	Z =	6.22	353	BINOMIAL
						INDIVIDUAL								
41	0.00	69.29	30.45	0.00	0.00	0.00	0.00	0.00	.13	.13	Z =	10.74	760	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.94	4.69	751	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.66	11.64	734	
44	0.00	36.09	41.08	21.00	0.93	0.00	0.00	0.00	1.44	.39	1.85	.75	748	
45	0.00	94.23	4.99	0.00	0.00	0.00	0.00	0.00	.56	.13	Z =	24.73	756	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.77	1.27	730	
51	.57	8.27	.14	5.99	2.85	10.41	9.64	10.68	15.69	35.24	6.74	2.77	701	
52	0.00	14.17	17.59	20.73	11.42	7.22	4.20	4.72	3.67	16.27	3.14	1.68	610	

FEMALE POPULATION FROM THE TOTAL SAMPLE

NUMBER OF RESPONDENTS = 1274

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	1274	
3	0.00	1.51	11.12	10.25	8.58	6.12	6.20	4.53	4.29	47.42	6.49	2.78	1259	
4	0.00	36.85	37.44	23.31	5.65	2.04	0.00	0.00	.39	.31	2.10	.97	1265	
5	0.00	13.74	79.67	0.00	0.00	0.00	0.00	0.00	2.35	4.24	Z =	-24.35	1190	BINOMIAL
6	0.00	7.22	71.04	0.00	0.00	0.00	0.00	0.00	9.97	11.77	Z =	-25.75	997	BINOMIAL
7	0.00	11.62	59.26	0.00	0.00	0.00	0.00	0.00	14.68	14.44	Z =	-20.20	963	BINOMIAL
8	0.00	5.69	31.32	0.00	0.00	0.00	0.00	0.00	31.48	31.32	Z =	-14.88	474	BINOMIAL
9	0.00	21.19	76.69	0.60	0.00	0.00	0.00	0.00	1.46	.16	Z =	-20.02	1247	BINOMIAL
10	0.00	.94	19.70	0.00	0.00	0.00	0.00	0.00	.31	79.04	Z =	-14.74	263	BINOMIAL
						NOISE								
11	0.00	60.44	31.87	7.54	0.00	0.00	0.00	0.00	.08	.08	Z =	10.61	1272	BINOMIAL
12-A	.13	0.00	7.40	46.36	37.14	8.18	0.00	0.00	.26	.52	3.46	.76	764	
12-B	0.00	0.00	13.30	47.60	33.59	5.36	0.00	0.00	.25	0.00	3.39	.83	405	
13	0.00	53.53	46.08	0.00	0.00	0.00	0.00	0.00	0.00	.39	Z =	2.67	1269	BINOMIAL
14	0.00	5.79	28.79	33.22	23.34	8.35	0.00	0.00	.17	.34	3.00	1.05	584	
15	0.00	22.15	9.88	17.72	21.29	26.42	0.00	0.00	1.19	.85	3.21	1.51	575	
16	0.00	34.07	.85	4.26	56.73	.68	0.00	0.00	2.39	1.02	2.89	1.42	567	
17	0.00	31.35	42.76	23.17	0.00	0.00	0.00	0.00	1.70	1.02	1.92	.74	571	
18	0.00	21.47	24.53	52.98	0.00	0.00	0.00	0.00	0.00	1.02	2.32	.81	581	
19	57.75	10.58	9.88	7.84	9.03	4.89	0.00	0.00	0.00	.85	1.11	1.57	582	
						SOURCES								
20	29.81	25.89	15.47	10.90	12.10	4.69	0.00	0.00	0.00	1.02	1.63	1.53	581	
21	24.70	21.29	14.48	10.73	19.54	8.52	0.00	0.00	0.00	.68	2.05	1.70	583	
22	35.40	31.88	14.92	8.69	5.96	1.87	0.00	0.00	.17	1.02	1.22	1.29	580	
23	42.89	30.15	11.53	4.40	5.45	3.41	0.00	0.00	.51	1.36	1.09	1.34	576	
24	62.81	14.14	7.67	4.09	7.50	3.58	0.00	0.00	0.00	1.02	.91	1.46	581	
25	55.71	29.13	6.64	3.07	3.07	.68	0.00	0.00	.17	1.53	.68	1.03	577	
26	15.16	14.14	18.57	17.89	22.32	8.35	0.00	0.00	.34	3.24	2.45	1.57	566	
27	41.60	14.02	6.81	6.64	10.90	4.43	0.00	0.00	1.02	13.97	1.34	1.66	499	
28	12.96	26.69	15.16	14.99	13.63	3.75	0.00	0.00	0.00	13.63	2.02	1.45	567	
29	34.29	22.32	10.05	8.35	5.28	3.41	0.00	0.00	.34	13.97	1.23	1.44	503	
30	32.20	16.52	8.86	10.65	10.56	7.50	0.00	0.00	.34	13.97	1.68	1.73	503	
31	18.91	11.58	12.61	13.29	19.08	11.07	0.00	0.00	0.00	13.46	2.41	1.74	508	
32	49.91	18.74	5.62	3.41	5.45	3.07	0.00	0.00	0.00	13.80	.90	1.39	506	
33	34.58	17.21	9.54	13.80	7.84	3.07	0.00	0.00	0.00	13.97	1.45	1.53	505	
34-A	64.60	3.58	3.92	3.58	6.30	5.28	0.00	3.24	0.00	9.71	1.07	1.94	530	
34-B	0.00	0.00	16.35	1.53	3.92	.68	0.00	0.00	0.00	77.51	2.51	.88	132	
35	60.82	2.56	7.84	9.20	13.12	5.62	0.00	0.00	0.00	.85	1.27	1.76	582	
						ACTIVITY								
36	57.58	2.39	8.35	5.35	13.97	8.35	0.00	0.00	0.00	1.02	1.63	1.85	581	
37	41.23	1.87	8.66	7.84	22.49	16.18	0.00	0.00	0.00	1.53	2.17	2.03	578	
38	64.05	3.41	9.88	6.13	11.75	3.41	0.00	0.00	0.00	1.36	1.07	1.62	579	
39	51.28	2.56	9.03	12.10	15.50	8.18	0.00	0.00	.17	1.19	1.62	1.86	579	
40	0.00	77.39	19.93	0.00	0.00	0.00	0.00	0.00	0.00	.68	Z =	5.97	583	BINOMIAL
						INDIVIDUAL								
41	0.00	70.25	29.28	0.00	0.00	0.00	0.00	0.00	.08	.39	Z =	14.66	1268	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.39	5.06	1245	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.18	10.84	1215	
44	0.00	32.03	35.17	26.37	0.00	0.00	0.00	0.00	1.73	.71	1.94	.77	1243	
45	0.00	93.17	5.41	0.00	0.00	0.00	0.00	0.00	.78	.24	Z =	31.34	1261	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	1.56	1253	
51	3.09	10.24	.18	7.15	3.97	8.12	7.41	15.00	16.42	28.42	6.28	2.95	1133	
52	0.00	20.02	15.86	17.08	10.13	4.95	1.96	3.45	7.69	18.37	2.78	1.62	942	

DIFFERENCE MATRIX OF (MALE - FEMALE) POPULATIONS FROM THE TOTAL SAMPLE

QUESTION	RESPONSE CATEGORIES 0 *	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00		
3	0.00	.66	2.73	2.62	-.13	-.05	.93	.88	-.33	-6.65	-.39	.07		
4	0.00	-1.85	4.55	-1.40	-1.45	.32	0.00	0.00	.00	-.18	-.02	-.03		
5	0.00	.57	.64	0.00	0.00	0.00	0.00	0.00	-.26	-.96	Z =	5.62		BINOMIAL
6	0.00	.52	-2.27	1.00	0.00	0.00	0.00	0.00	1.45	.30	Z =	6.49		BINOMIAL
7	0.00	1.51	-1.78	0.00	0.00	0.00	0.00	0.00	.15	.12	Z =	5.63		BINOMIAL
8	0.00	-.11	1.49	0.00	0.00	0.00	0.00	0.00	-.50	-.87	Z =	2.87		BINOMIAL
9	0.00	5.58	-5.30	0.00	0.00	0.00	0.00	0.00	-.52	.24	Z =	7.59		BINOMIAL
10	0.00	.50	4.44	0.00	0.00	0.00	0.00	0.00	.21	-5.55	Z =	2.23		BINOMIAL
						NOISE								
11	0.00	3.98	-1.42	-1.76	0.00	0.00	0.00	0.00	.05	.05	Z =	-1.20		BINOMIAL
12-A	.49	0.00	-1.00	3.02	-3.26	.70	0.00	0.00	-.05	.10	-.02	.03		
12-B	.43	0.00	-1.23	2.96	-2.89	.99	0.00	0.00	-.25	0.00	-.01	.03		
13	0.00	-.51	.91	0.00	0.00	0.00	0.00	0.00	0.00	-.39	Z =	-1.00		BINOMIAL
14	0.00	-.48	.54	2.26	-6.02	3.10	0.00	0.00	.11	.50	.01	.03		
15	0.00	.20	.09	-6.54	.49	-.38	0.00	0.00	1.86	.27	-.04	.04		
16	0.00	7.83	-.01	-1.47	-6.13	.99	0.00	0.00	.69	.10	-.23	.07		
17	0.00	-.34	-5.33	4.48	0.00	0.00	0.00	0.00	1.37	-.18	.05	.04		
18	0.00	-1.07	-3.30	3.16	0.00	0.00	0.00	0.00	1.12	.10	.05	-.00		
19	-10.54	4.24	3.81	1.66	.19	-.18	0.00	0.00	0.00	.82	.18	-.02		
						SOURCES								
20	-1.32	1.48	1.09	1.67	-3.72	.71	0.00	0.00	0.00	.10	-.03	-.04		
21	.16	-.34	4.51	.72	-5.82	-.42	0.00	0.00	0.00	.99	-.12	-.07		
22	-6.00	5.57	-1.41	1.93	.46	-.48	0.00	0.00	-.17	.10	.08	-.03		
23	-3.76	1.69	-1.31	.99	2.09	.22	0.00	0.00	-.51	.59	.12	.07		
24	-4.75	4.56	-.68	1.50	-1.35	-.78	0.00	0.00	0.00	1.49	-.00	-.08		
25	1.56	-4.78	.34	3.92	.01	.44	0.00	0.00	-.17	.70	.08	.14		
26	-2.59	2.62	-1.81	2.22	-2.48	.31	0.00	0.00	-.06	1.79	.02	-.03		
27	-2.29	1.94	.45	2.57	-.57	.32	0.00	0.00	-1.02	-1.40	.08	-.01		
28	3.53	-.75	-.64	1.77	-3.29	.72	0.00	0.00	0.00	-1.34	-.10	.02		
29	-.81	2.54	-.83	1.99	-.53	-.89	0.00	0.00	-.34	-1.12	-.02	-.06		
30	-2.58	4.15	-1.48	2.60	.61	-1.63	0.00	0.00	-.34	-1.12	.01	-.07		
31	-2.43	8.25	.24	.12	-1.48	-3.53	0.00	0.00	0.00	-1.17	-.20	-.11		
32	-3.83	1.65	.24	6.09	-3.22	.29	0.00	0.00	0.00	-1.23	.09	-.02		
33	2.29	-1.28	2.47	-2.63	-.57	.56	0.00	0.00	0.00	-.64	-.06	.00		
34-A	-7.13	1.45	.83	3.41	.40	.86	0.00	-1.00	.28	.90	.15	-.03		
34-B	0.00	0.00	1.52	-.14	-.57	.16	0.00	0.00	0.00	-.98	-.06	-.02		
35	-.76	1.66	1.10	1.69	-3.06	-1.15	0.00	0.00	0.00	1.10	-.08	-.09		
						ACTIVITY								
36	2.75	2.92	1.15	-1.92	-4.19	-1.92	0.00	0.00	0.00	1.21	-.26	-.15		
37	-4.68	3.99	2.04	3.06	-2.65	-2.78	0.00	0.00	0.00	.42	-.06	-.11		
38	-1.48	2.48	-2.34	.85	-.86	1.06	0.00	0.00	0.00	.31	.03	.03		
39	2.63	1.63	-.65	-.64	-3.21	-.64	0.00	0.00	.11	.76	-.17	-.05		
40	0.00	.76	-1.50	0.00	0.00	0.00	0.00	0.00	0.00	.72	Z =	.25		BINOMIAL
						INDIVIDUAL								
41	0.00	-.96	1.17	0.00	0.00	0.00	0.00	0.00	.05	-.26	Z =	-3.92		BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.44	-.36		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.52	.80		
44	0.00	4.06	1.91	-5.38	0.00	0.00	0.00	0.00	-.26	-.31	-.10	-.02		
45	0.00	1.05	-.82	0.00	0.00	0.00	0.00	0.00	-.13	-.10	Z =	-6.61		BINOMIAL
46	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.29	-.29		
51	-2.62	-1.46	-.03	-1.16	-1.12	2.29	2.43	-4.02	-.72	6.82	.45	-.18		
52	0.00	-5.84	1.73	3.15	1.29	2.27	2.24	1.27	-4.02	-2.09	.36	.06		

RESPONDENTS OF AGE > 45 (ALL SITES)

NUMBER OF RESPONDENTS = 688

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	63.95	35.90	.15	0.00	0.00	0.00	0.00	0.00	0.00	1.36	.49	688	
3	0.00	.44	4.38	4.67	3.94	4.09	4.67	3.94	3.36	70.51	7.76	2.20	685	
4	0.00	30.23	37.65	22.82	5.67	2.91	0.00	0.00	.44	.29	2.13	1.01	683	
5	0.00	12.15	80.81	0.00	0.00	0.00	0.00	0.00	1.74	5.09	Z = -16.60		641	BINOMIAL
6	0.00	7.56	65.84	0.00	0.00	0.00	0.00	0.00	11.05	15.55	Z = -17.84		505	BINOMIAL
7	0.00	9.88	55.81	0.00	0.00	0.00	0.00	0.00	15.99	18.31	Z = -14.86		452	BINOMIAL
8	0.00	3.92	28.49	0.00	0.00	0.00	0.00	0.00	32.27	35.32	Z = -11.32		223	BINOMIAL
9	0.00	20.93	76.89	0.00	0.00	0.00	0.00	0.00	2.03	.15	Z = -16.84		673	BINOMIAL
10	0.00	.29	19.77	0.00	0.00	0.00	0.00	0.00	.29	79.65	Z = -11.41		138	BINOMIAL
						NOISE								
11	0.00	61.05	30.67	7.99	0.00	0.00	0.00	0.00	.15	.15	Z =	8.32	686	BINOMIAL
12-A	.48	0.00	4.52	46.67	37.14	10.00	0.00	0.00	.71	.48	3.52	.78	415	
12-B	0.00	0.00	11.85	43.13	36.02	8.53	0.00	0.00	.47	0.00	3.41	.81	213	
13	0.00	59.01	40.84	0.00	0.00	0.00	0.00	0.00	0.00	.15	Z =	4.77	687	BINOMIAL
14	0.00	6.76	25.62	35.23	22.42	8.99	0.00	0.00	.36	.71	3.31	1.06	278	
15	0.00	22.06	10.32	13.17	20.22	30.60	0.00	0.00	2.49	1.07	3.24	1.56	271	
16	0.00	31.67	.71	3.56	61.57	.36	0.00	0.00	1.07	1.07	2.98	1.39	275	
17	0.00	33.45	44.84	19.22	0.00	0.00	0.00	0.00	1.42	1.07	1.85	.72	274	
18	0.00	22.42	24.91	50.53	0.00	0.00	0.00	0.00	.71	1.42	2.29	.81	275	
						SOURCES								
19	61.21	14.59	8.19	6.76	6.05	1.78	0.00	0.00	0.00	1.42	.86	1.34	277	
20	29.54	26.83	13.88	9.61	12.10	5.34	0.00	0.00	0.00	.71	1.62	1.55	279	
21	26.33	23.13	12.81	9.25	18.86	8.19	0.00	0.00	0.00	1.42	1.96	1.71	277	
22	28.83	38.79	15.30	8.90	5.34	1.07	0.00	0.00	0.00	1.78	1.25	1.19	276	
23	38.79	37.37	11.74	3.56	3.56	2.85	0.00	0.00	.36	1.78	1.02	1.21	275	
24	59.43	17.44	5.34	2.85	8.90	4.27	0.00	0.00	0.00	1.78	.95	1.51	276	
25	50.18	32.74	6.05	4.63	3.56	.71	0.00	0.00	0.00	2.14	.78	1.08	275	
26	18.15	16.01	17.08	19.22	18.86	6.41	0.00	0.00	1.07	3.20	2.25	1.57	269	
27	34.52	15.30	9.96	5.69	11.74	3.20	0.00	0.00	1.42	18.15	1.43	1.61	226	
28	11.03	28.11	14.59	14.23	12.31	1.42	0.00	0.00	0.00	17.79	1.93	1.35	231	
29	32.03	29.54	9.61	4.93	4.98	.71	0.00	0.00	0.00	18.15	1.07	1.20	230	
30	26.33	24.56	8.90	8.90	9.25	3.20	0.00	0.00	0.00	18.86	1.50	1.51	228	
31	15.66	14.95	9.61	12.46	21.00	8.54	0.00	0.00	0.00	17.79	2.41	1.78	231	
32	46.98	22.06	3.56	4.98	3.91	.71	0.00	0.00	0.00	17.79	.77	1.17	231	
33	26.47	22.42	10.32	12.10	7.83	1.07	0.00	0.00	0.00	17.79	1.41	1.40	231	
34-A	62.99	3.20	3.56	3.56	8.19	3.20	0.00	2.85	0.00	12.46	1.02	1.88	246	
34-B	0.00	0.00	14.95	1.07	3.91	.36	0.00	0.00	0.00	79.72	2.49	.86	57	
						ACTIVITY								
35	68.85	3.20	8.54	8.19	12.46	5.34	0.00	0.00	0.00	1.42	1.23	1.73	277	
36	66.55	2.49	8.19	6.76	9.96	4.27	0.00	0.00	0.00	1.78	1.02	1.63	276	
37	48.75	4.27	9.61	8.54	17.79	9.96	0.00	0.00	0.00	1.07	1.72	1.91	273	
38	73.31	6.76	6.76	2.49	8.54	.71	0.00	0.00	0.00	1.42	.66	1.30	277	
39	55.16	4.63	11.03	10.32	12.46	4.27	0.00	0.00	.71	1.42	1.32	1.69	275	
						INDIVIDUAL								
40	0.00	78.29	21.00	0.00	0.30	0.00	0.00	0.00	0.00	.71	Z =	5.75	279	BINOMIAL
41	0.00	68.75	30.96	0.00	0.00	0.00	0.00	0.00	0.00	.29	Z =	9.93	686	BINOMIAL
42											18.36	5.07	671	
43											39.29	10.67	659	
44	0.00	33.43	45.20	19.33	0.00	0.00	0.00	0.00	1.60	.44	1.86	.72	674	
45	0.00	94.77	4.22	0.00	0.00	0.00	0.00	0.00	.58	.44	Z =	23.87	691	BINOMIAL
46											.41	1.09	675	
51	1.91	12.24	.32	6.66	3.82	9.70	10.17	13.83	18.25	23.05	6.14	2.99	629	
52	0.00	22.53	16.20	14.53	9.59	4.80	2.47	3.05	5.38	21.37	2.69	1.65	504	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

RESPONDENTS OF AGE ≥ 30 (ALL SITES)

NUMBER OF RESPONDENTS = 618

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	59.87	40.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	.49	614	
3	0.00	3.42	24.92	19.06	13.68	7.98	5.54	3.91	2.93	18.57	4.56	2.64	614	
4	0.00	23.62	44.17	24.11	5.83	1.62	0.00	0.00	.49	.16	2.17	.91	614	
5	0.00	13.27	82.69	0.00	0.00	0.00	0.00	0.00	1.45	2.59	Z = -17.62		593	BINOMIAL
6	0.00	8.74	74.27	0.00	0.00	0.00	0.00	0.00	9.06	7.93	Z = -17.85		513	BINOMIAL
7	0.00	16.34	63.27	0.00	0.00	0.00	0.00	0.00	12.62	7.77	Z = -13.07		492	BINOMIAL
8	0.00	8.09	40.45	0.00	0.00	0.00	0.00	0.00	27.51	23.96	Z = -11.55		300	BINOMIAL
9	0.00	31.39	66.99	0.00	0.00	0.00	0.00	0.00	1.62	0.00	Z = -5.92		603	BINOMIAL
10	0.00	2.27	28.48	0.00	0.00	0.00	0.00	0.00	.49	68.77	Z = -11.75		199	BINOMIAL
						NOISE								
11	0.00	55.34	36.89	7.77	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.77	616	BINOMIAL
12-A	.29	0.00	8.77	51.17	33.33	6.43	0.00	0.00	0.00	0.00	3.37	.76	342	
12-B	.44	0.00	9.65	47.81	31.58	10.53	0.00	0.00	0.00	0.00	3.42	.84	228	
13	0.00	44.50	55.34	0.00	0.00	0.00	0.00	0.00	0.00	.16	Z =	-2.70	617	BINOMIAL
14	0.00	4.09	29.24	34.21	21.35	11.11	0.00	0.00	0.00	0.00	3.56	1.05	342	
15	0.00	19.01	14.62	15.50	23.68	25.44	0.00	0.00	1.46	.29	3.22	1.47	326	
16	0.00	42.69	1.17	2.05	48.54	.88	0.00	0.00	4.39	.29	2.62	1.48	326	
17	0.00	29.24	35.67	31.87	0.00	0.00	0.00	0.00	2.63	.58	2.03	.79	331	
18	0.00	14.62	19.88	65.20	0.00	0.00	0.00	0.00	0.00	.29	2.51	.74	341	
						SOURCES								
19	46.78	10.23	15.20	9.65	12.57	5.26	0.00	0.00	0.00	.29	1.47	1.66	341	
20	25.15	22.51	19.30	15.79	9.36	7.31	0.00	0.00	0.00	.58	1.84	1.55	340	
21	23.39	19.88	19.30	13.16	16.37	7.31	0.00	0.00	0.00	.58	2.01	1.61	340	
22	40.06	27.78	13.74	8.77	5.85	3.22	0.00	0.00	.29	.29	1.22	1.38	340	
23	49.42	24.27	11.70	5.26	5.26	3.51	0.00	0.00	0.00	.58	1.03	1.37	342	
24	56.73	15.79	9.36	7.89	5.56	3.51	0.00	0.00	0.00	1.17	.59	1.44	338	
25	65.50	19.88	6.43	4.39	2.63	.29	0.00	0.00	0.00	.88	.58	1.01	339	
26	11.70	11.70	19.59	19.88	25.44	10.53	0.00	0.00	0.00	1.17	2.60	1.52	338	
27	45.03	13.74	6.43	8.77	10.82	4.68	0.00	0.00	.58	9.94	1.34	1.67	336	
28	13.45	21.35	16.67	20.47	13.16	4.97	0.00	0.00	0.00	9.94	2.15	1.46	309	
29	38.89	16.37	11.70	12.87	5.85	4.09	0.00	0.00	.29	9.94	1.36	1.52	307	
30	33.04	11.70	8.48	12.28	14.62	9.36	0.00	0.00	.29	10.23	1.91	1.83	306	
31	26.32	14.33	12.87	13.45	14.62	8.48	0.00	0.00	0.00	9.94	2.01	1.72	338	
32	45.91	19.30	7.89	7.60	4.68	4.39	0.00	0.00	0.00	10.23	1.10	1.48	307	
33	35.67	12.28	11.40	17.25	9.06	3.51	0.00	0.00	0.00	10.82	1.58	1.59	305	
34-A	57.60	5.26	4.68	6.43	7.02	8.48	0.00	3.22	.29	7.02	1.37	2.05	317	
34-B	0.00	0.00	19.59	1.75	3.80	.88	0.00	0.00	0.00	73.98	2.46	.46	89	
						ACTIVITY								
35	54.97	2.34	9.36	10.53	16.67	5.85	0.00	0.00	0.00	.29	1.49	1.61	341	
36	51.46	4.39	8.48	7.89	16.37	10.82	0.00	0.00	0.00	.58	1.66	1.93	340	
37	29.53	3.22	11.40	10.23	24.85	20.18	0.00	0.00	0.00	.58	2.59	1.95	343	
38	55.26	3.22	9.65	9.36	15.20	6.43	0.00	0.00	0.00	.88	1.45	1.80	339	
39	45.91	2.63	8.48	16.08	14.91	11.11	0.00	0.00	0.00	.88	1.85	1.90	339	
						INDIVIDUAL								
40	0.00	82.16	17.54	0.00	0.00	0.00	0.00	0.00	0.00	.29	Z =	6.47	341	BINOMIAL
41	0.00	73.14	26.70	0.00	0.00	0.00	0.00	0.00	0.00	.16	Z =	11.55	617	BINOMIAL
42											15.34	4.86	615	
43											32.29	11.47	601	
44	0.00	40.78	29.45	26.16	0.00	0.00	0.00	0.00	.81	.81	1.87	.83	608	
45	0.00	89.97	9.90	0.00	0.00	0.00	0.00	0.00	1.13	0.00	Z =	20.27	611	BINOMIAL
46											.99	1.31	599	
51	.18	7.47	0.00	5.87	3.02	8.36	8.90	13.52	14.95	37.72	6.93	2.75	562	
52	0.00	17.48	20.71	24.76	11.33	5.34	2.10	3.07	6.47	8.74	2.82	1.49	524	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF RESPONDENTS OF AGE (≤30 - >45) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-4.06	4.23	-.15	0.00	0.00	0.00	0.00	0.02	0.00	.04	.01		
3	0.00	2.98	20.54	14.38	9.74	3.89	.67	-.03	-.43	-51.94	-3.20	.44		
4	0.00	-6.61	6.53	1.29	.16	-1.29	0.00	0.00	.05	-.13	.04	-.09		
5	0.00	.91	1.87	0.00	0.00	0.00	0.00	0.00	-.23	-2.50	Z =	.99		BINOMIAL
6	0.00	1.18	8.43	0.00	0.00	0.00	0.00	0.00	-1.99	-7.62	Z =	-.04		BINOMIAL
7	0.00	6.46	7.45	0.00	0.00	0.00	0.00	0.00	-3.37	-10.55	Z =	1.79		BINOMIAL
8	0.00	4.17	11.96	0.00	0.00	0.00	0.00	0.00	-4.76	-11.37	Z =	-.23		BINOMIAL
9	0.00	10.46	-9.90	0.00	0.00	0.00	0.00	0.00	-.42	-.15	Z =	5.92		BINOMIAL
10	0.00	1.97	8.71	0.00	0.00	0.00	0.00	0.00	.19	-10.88	Z =	-.35		BINOMIAL
						NOISE								
11	0.00	-5.71	6.22	-.23	0.00	0.00	0.00	0.00	-.15	-.15	Z =	-3.55		BINOMIAL
12-A	-.16	0.00	4.25	4.50	-3.81	-3.57	0.00	0.00	-.71	-.48	-.15	-.02		
12-B	.44	0.00	-2.20	4.66	-4.44	2.00	0.00	0.00	-.47	0.00	.00	.03		
13	0.00	-14.51	14.50	0.00	0.00	0.00	0.00	0.00	0.00	.02	Z =	-7.47		BINOMIAL
14	0.00	-2.67	3.62	-1.02	-1.07	2.21	0.00	0.00	-.36	-.71	.05	-.00		
15	0.00	-3.06	4.30	2.33	3.40	-5.17	0.00	0.00	-1.03	-.76	-.06	-.09		
16	0.00	11.02	.46	-1.51	-13.03	.52	0.00	0.00	3.32	-.78	-.36	.09		
17	0.00	-4.21	-9.17	12.65	0.00	0.00	0.00	0.00	1.21	-.48	.17	.07		
18	0.00	-7.80	-5.03	14.67	0.00	0.00	0.00	0.00	-.71	-1.13	.22	-.06		
						SOURCES								
19	-14.43	-4.36	7.02	2.89	6.52	3.48	0.00	0.00	0.00	-1.13	.61	.32		
20	-4.39	-6.31	5.42	6.18	-2.74	1.97	0.00	0.00	0.00	-.13	.22	.00		
21	-2.94	-3.25	6.49	3.91	-2.49	-.68	0.00	0.00	0.00	-.84	.06	-.09		
22	11.23	-11.01	-1.56	-.12	.51	2.15	0.00	0.00	-.29	-1.49	-.03	.19		
23	10.63	-13.10	-.05	1.70	1.70	.66	0.00	0.00	-.36	-1.19	.00	.16		
24	-2.71	-1.65	4.02	5.05	-3.34	-.76	0.00	0.00	0.00	-.61	.04	-.08		
25	15.32	-12.80	.38	-.24	-.93	-.42	0.00	0.00	0.00	-1.26	-.20	-.07		
26	-6.45	-4.32	2.51	.67	6.54	4.12	0.00	0.00	-1.07	-2.03	.43	-.04		
27	10.51	-1.56	-3.53	3.08	-.93	1.48	0.00	0.00	-.84	-8.21	-.10	.05		
28	2.42	-6.77	2.08	6.23	.35	3.55	0.00	0.00	0.00	-7.85	.22	.11		
29	6.86	-11.16	2.09	7.48	.87	3.38	0.00	0.00	.29	-8.21	.30	.33		
30	6.71	-1.[illegible]8	-.42	3.38	5.37	6.15	0.00	0.00	.29	-8.63	.40	.32		
31	10.66	-.32	3.26	.99	-6.34	-.06	0.00	0.00	0.00	-7.85	-.40	.03		
32	-1.07	-2.77	4.34	2.62	.76	3.67	0.00	0.00	0.00	-7.56	.33	.31		
33	7.20	-10.14	1.08	5.15	1.24	2.44	0.00	0.00	0.00	-6.97	.17	.19		
34-A	-5.39	2.06	1.12	2.87	-1.17	5.28	0.00	.37	.29	-5.44	.34	.19		
34-B	0.00	0.00	4.64	.69	-.11	.52	0.00	0.00	0.00	-5.74	-.03	.00		
						ACTIVITY								
35	-5.88	-.86	.82	-2.34	4.21	.51	0.00	0.00	0.00	-1.13	.26	.08		
36	-15.09	1.69	.29	1.13	6.41	6.55	0.00	0.00	0.00	-1.19	.63	.30		
37	-19.22	-1.05	1.79	1.69	7.06	10.21	0.00	0.00	0.00	-.48	.67	.04		
38	-18.05	-3.55	2.89	6.87	6.66	5.72	0.00	0.00	0.00	-.55	.78	.50		
39	9.25	-1.99	-2.55	5.76	2.46	6.84	0.00	0.00	-.71	-.55	.53	.22		
						INDIVIDUAL								
40	4.00	3.87	-3.45	0.00	0.00	0.00	0.00	0.00	0.00	-.42	Z =	.72		BINOMIAL
41	0.00	4.39	-4.26	0.00	0.00	0.00	0.00	0.00	0.00	-.13	Z =	1.63		BINOMIAL
42											-3.01	-.21		
43											-7.01	.81		
44	0.00	7.35	-15.75	8.82	0.00	0.00	0.00	0.00	-.79	.37	.02	.11		
45	0.00	-4.80	4.80	0.00	0.00	0.00	0.00	0.00	.55	-.44	Z =	-3.61		BINOMIAL
46											.58	.22		
51	-1.73	-4.77	-.32	-.81	-.79	-1.33	-1.28	-.31	-3.34	14.67	.79	-.24		
52	0.00	-5.05	4.43	10.22	1.73	.54	-.37	.02	1.09	-12.63	.13	-.16		

QUESTION 51 = CATEGORIES 0 THROUGH 4 (ALL SITES)

NUMBER OF RESPONDENTS = 404

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	69.06	30.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	.46	404	
3	0.00	2.51	11.53	6.77	8.02	4.76	6.52	4.01	4.51	51.38	6.67	2.80	399	
4	0.00	15.54	35.15	37.13	7.67	2.47	0.00	0.00	.50	.50	2.49	.95	400	
5	0.00	19.55	69.80	0.00	0.00	0.00	0.00	0.00	2.72	7.92	Z =	-10.68	361	BINOMIAL
6	0.00	5.45	62.87	0.00	0.00	0.00	0.00	0.00	10.89	20.79	Z =	-13.96	276	BINOMIAL
7	0.00	10.69	52.97	0.00	0.00	0.00	0.00	0.00	15.84	20.30	Z =	-10.58	256	BINOMIAL
8	0.00	2.48	26.22	0.00	0.00	0.00	0.00	0.00	25.55	43.81	Z =	-9.34	124	BINOMIAL
9	0.00	25.74	69.80	0.00	0.00	0.00	0.00	0.00	3.96	.50	Z =	-9.96	326	BINOMIAL
10	0.00	1.96	21.29	0.00	0.00	0.00	0.00	0.00	.25	76.49	Z =	-8.25	94	BINOMIAL
NOISE														
11	0.00	54.70	35.64	9.41	0.00	0.00	0.00	0.00	0.00	.25	Z =	4.03	403	BINOMIAL
12-A	.90	0.00	4.98	51.13	32.58	10.41	0.00	0.00	0.00	0.00	3.44	.82	221	
12-B	0.00	0.00	13.89	35.42	40.97	9.72	0.00	0.00	0.00	0.00	3.47	.85	144	
13	0.00	56.44	43.07	0.00	0.00	0.00	0.00	0.00	0.00	.50	Z =	2.69	402	BINOMIAL
14	0.00	5.17	23.56	30.40	28.16	12.07	0.00	0.00	.57	0.00	3.18	1.09	173	
15	0.00	16.67	8.62	20.69	21.26	30.46	0.00	0.00	2.30	0.00	3.41	1.44	170	
16	0.00	21.26	.57	6.75	69.54	0.00	0.00	0.00	2.87	0.00	3.27	1.23	169	
17	0.00	31.61	45.40	22.41	0.00	0.00	0.00	0.00	.57	0.00	1.91	.73	173	
18	0.00	18.97	23.56	57.47	0.00	0.00	0.00	0.00	0.00	0.00	2.39	.78	174	
SOURCES														
19	57.47	14.37	5.17	5.75	13.22	3.45	0.00	0.00	0.00	.57	1.13	1.61	173	
20	22.41	22.41	16.09	13.79	16.67	8.05	0.00	0.00	0.00	.57	2.04	1.63	173	
21	29.31	20.11	14.37	11.49	16.09	8.62	0.00	0.00	0.00	0.00	1.91	1.70	174	
22	29.89	39.66	13.22	8.62	8.05	.57	0.00	0.00	0.00	0.00	1.27	1.23	174	
23	45.40	31.61	12.07	4.02	2.87	2.30	0.00	0.00	1.15	.57	.92	1.17	171	
24	59.77	16.67	6.90	4.60	7.47	4.60	0.00	0.00	0.00	0.00	.97	1.50	174	
25	62.07	28.16	4.02	2.30	2.30	0.00	0.00	0.00	.57	.57	.53	.67	172	
26	14.94	21.84	17.24	10.79	23.56	6.32	0.00	0.00	.57	1.72	2.29	1.56	170	
27	47.13	14.37	4.02	6.32	8.05	5.75	0.00	0.00	0.00	14.37	1.19	1.67	149	
28	9.77	27.59	12.64	14.94	17.82	2.87	0.00	0.00	0.00	14.37	2.14	1.44	149	
29	38.51	23.56	12.64	5.17	4.02	1.15	0.00	0.00	0.00	14.94	1.01	1.22	140	
30	36.78	16.39	8.05	9.20	6.62	4.02	0.00	0.00	0.00	14.94	1.37	1.58	148	
31	25.11	18.97	12.64	12.07	18.39	4.60	0.00	0.00	0.00	13.22	2.04	1.61	151	
32	51.15	21.84	6.32	1.15	3.45	2.30	0.00	0.00	0.00	13.79	.73	1.20	150	
33	29.89	24.71	1.49	11.49	5.17	1.72	0.00	0.00	0.00	15.52	1.32	1.35	147	
34-A	66.39	3.45	1.72	3.45	7.47	4.60	0.00	1.15	0.00	9.77	.87	1.71	157	
34-B	0.00	0.00	6.62	0.00	5.75	.57	0.00	0.00	0.00	85.06	2.88	1.05	26	
ACTIVITY														
35	53.45	4.02	9.20	10.34	15.52	6.32	0.00	0.00	0.00	1.15	1.49	1.80	172	
36	53.45	2.87	5.75	12.64	16.67	8.05	0.00	0.00	0.00	.57	1.60	1.88	173	
37	39.08	4.02	9.77	8.05	23.56	14.37	0.00	0.00	0.00	1.15	2.16	1.98	172	
38	64.37	4.02	9.77	5.17	13.22	2.87	0.00	0.00	0.00	.57	1.07	1.61	173	
39	51.72	3.45	6.32	12.64	17.24	7.47	0.00	0.00	.57	.57	1.62	1.87	172	
INDIVIDUAL														
40	0.00	86.21	13.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.24	174	BINOMIAL
41	0.00	75.74	24.01	0.00	0.00	0.00	0.00	0.00	0.00	.25	Z =	10.41	403	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.07	5.31	396	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.87	11.06	308	
44	0.00	38.86	37.62	19.31	0.00	0.00	0.00	0.00	3.22	.99	1.88	.75	327	
45	0.00	92.08	6.44	0.00	0.00	0.00	0.00	0.00	1.49	0.00	Z =	17.34	398	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.88	1.58	394	
51	9.65	43.07	.74	30.45	16.09	0.00	0.00	0.00	0.00	0.00	2.00	1.33	404	
52	0.00	39.69	22.03	12.87	4.21	.50	.25	.50	11.14	8.91	1.83	1.05	323	

QUESTION 51 - CATEGORIES 5 THROUGH 9 (ALL SITES)

NUMBER OF RESPONDENTS = 1633

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.93	39.01	.06	0.00	0.00	0.00	0.00	0.00	0.00	1.39	.49	1633	
3	0.00	1.54	12.29	12.04	8.65	6.42	6.55	5.06	4.08	43.36	6.27	2.81	1619	
4	0.00	33.74	40.17	19.23	4.47	1.84	0.00	0.00	.37	.18	2.00	.94	1624	
5	0.00	12.55	82.42	0.00	0.00	0.00	0.00	0.00	2.14	2.88	Z = -12.96		1591	BINOMIAL
6	0.00	7.90	72.01	0.00	0.00	0.00	0.00	0.00	10.41	9.68	Z = -12.96		1305	BINOMIAL
7	0.00	12.49	59.95	0.00	0.00	0.00	0.00	0.00	14.45	13.10	Z = -10.08		1183	BINOMIAL
8	0.00	6.67	32.76	0.00	0.00	0.00	0.00	0.00	32.70	27.86	Z = -7.51		644	BINOMIAL
9	0.00	22.72	75.87	0.00	0.00	0.00	0.00	0.00	1.22	.18	Z = -9.67		1610	BINOMIAL
10	0.00	.98	21.56	0.00	0.00	0.00	0.00	0.00	.43	77.04	Z = -7.33		368	BINOMIAL
						NOISE								
11	0.00	63.26	30.31	6.25	0.20	0.00	0.00	0.00	.12	.06	Z = 6.16		1630	BINOMIAL
12-A	.19	0.00	7.45	46.76	36.59	8.03	0.30	0.00	.29	.68	3.45	.76	1023	
12-B	.20	0.00	12.53	47.47	29.90	9.70	0.00	0.00	.20	0.00	3.34	.84	494	
13	0.00	52.54	47.27	0.00	0.00	0.00	0.00	0.00	0.00	.18	Z =	.95	1630	BINOMIAL
14	0.00	5.70	36.16	34.97	19.43	8.74	0.00	0.00	.13	.65	2.96	1.04	766	
15	0.00	23.45	12.85	13.97	21.63	25.91	0.00	0.00	1.81	1.17	3.15	1.54	749	
16	0.00	40.67	.91	3.24	50.00	1.30	0.00	0.00	2.59	1.30	2.69	1.48	742	
17	0.00	31.22	39.64	25.39	0.00	0.00	0.00	0.00	2.59	1.17	1.94	.76	743	
18	0.00	21.50	23.19	53.50	0.00	0.00	0.00	0.00	.52	1.30	2.33	.81	758	
						SOURCES								
19	52.90	11.66	12.69	9.07	8.16	4.15	0.00	0.00	0.00	1.30	1.19	1.55	762	
20	30.83	27.33	16.06	11.01	9.33	4.27	0.00	0.00	0.00	1.17	1.53	1.48	768	
21	23.70	21.37	18.58	11.01	17.75	8.29	0.00	0.00	0.00	1.30	2.03	1.66	762	
22	34.07	32.77	14.51	9.59	5.70	1.54	0.00	0.00	.13	1.30	1.25	1.27	761	
23	40.16	30.70	11.27	5.18	6.99	3.76	0.00	0.00	.13	1.81	1.18	1.40	757	
24	60.23	15.80	7.51	4.66	6.87	2.98	0.00	0.00	0.00	1.94	.89	1.41	757	
25	54.92	26.30	7.38	5.05	3.24	1.04	0.00	0.00	0.00	2.07	.76	1.12	756	
26	13.69	13.60	10.13	19.82	20.85	8.94	0.00	0.00	.26	4.40	2.49	1.55	735	
27	39.12	15.80	7.64	7.90	11.27	4.27	0.00	0.00	.78	13.21	1.41	1.65	684	
28	15.28	25.13	15.54	15.80	11.14	4.27	0.00	0.00	0.00	12.82	1.95	1.44	673	
29	35.36	23.19	9.20	9.97	5.31	3.50	0.00	0.00	.26	13.21	1.27	1.45	662	
30	29.92	16.61	8.29	11.53	11.27	7.51	0.00	0.00	.26	13.21	1.75	1.72	663	
31	17.62	13.73	12.69	13.60	18.52	10.68	0.00	0.00	0.00	12.95	2.39	1.72	672	
32	47.93	18.78	5.57	6.74	4.40	3.37	0.00	0.00	0.00	13.21	.97	1.42	670	
33	36.66	15.03	10.23	13.00	8.16	3.63	0.00	0.00	0.00	13.21	1.45	1.57	670	
34-A	62.10	4.27	4.79	5.18	6.22	5.96	0.00	3.24	.13	10.10	1.19	1.98	693	
34-B	0.00	0.00	16.78	1.81	3.24	.78	0.00	0.00	0.00	75.39	2.43	.84	190	
						ACTIVITY								
35	62.18	2.72	8.63	9.72	11.14	4.92	0.00	0.00	0.00	1.30	1.19	1.73	762	
36	59.72	3.63	9.59	6.48	11.40	7.51	0.00	0.00	0.00	1.68	1.28	1.76	759	
37	39.90	3.24	9.59	9.20	20.98	15.28	0.00	0.00	0.00	1.81	2.14	2.00	758	
38	63.36	4.60	8.81	6.74	11.01	4.02	0.00	0.00	0.00	1.68	1.08	1.63	759	
39	52.46	3.11	9.33	11.66	13.60	8.03	0.00	0.00	.13	1.68	1.54	1.83	758	
						INDIVIDUAL								
40	0.20	78.24	20.60	0.00	0.00	0.00	0.00	0.00	0.00	1.17	Z =	2.55	763	BINOMIAL
41	0.00	68.40	31.17	0.00	0.00	0.00	0.00	0.00	.12	.31	Z =	6.74	1626	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.84	5.14	1601	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.33	11.29	1562	
44	0.00	32.27	40.42	25.60	0.00	0.00	0.00	0.00	1.22	.49	1.93	.76	1665	
45	0.00	93.94	5.27	0.00	0.00	0.00	0.00	0.00	.55	.24	Z =	16.09	1625	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.97	1.44	1590	
51	0.00	0.00	0.00	0.00	0.00	11.53	10.69	17.26	20.68	39.83	7.72	1.73	1431	
52	0.00	12.49	15.13	20.21	12.19	7.10	3.43	4.78	4.96	19.72	3.21	1.67	1230	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 51 (CATEGORIES 0 TO 4 - 5 TO 9) FOR ALL SITES

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	8.13	-8.07	-.06	0.00	0.00	0.00	0.00	0.00	0.00	-.08	-.03		
3	0.00	.96	-.76	-5.28	-.63	-1.66	-.03	-1.35	.43	8.02	.41	-.01		
4	0.00	-16.15	-5.02	17.90	3.20	1.63	0.00	0.00	.13	.31	.46	.03		
5	0.00	7.00	-12.62	0.00	0.00	0.00	0.00	0.00	.58	5.04	Z =	2.27		BINOMIAL
6	0.00	-2.45	-9.14	0.00	0.00	0.00	0.00	0.00	.48	11.12	Z =	-1.00		BINOMIAL
7	0.00	-1.60	-6.98	0.00	0.00	0.00	0.00	0.00	1.39	7.19	Z =	-.51		BINOMIAL
8	0.00	-4.20	-4.54	0.00	0.00	0.00	0.00	0.00	-7.21	15.95	Z =	-1.83		BINOMIAL
9	0.00	3.02	-6.07	0.00	0.00	0.00	0.00	0.00	2.74	.31	Z =	.61		BINOMIAL
10	0.00	1.08	-.27	0.00	0.00	0.00	0.00	0.00	-.18	-.55	Z =	-.21		BINOMIAL
						NOISE								
11	0.00	-8.55	5.33	3.16	0.00	0.00	0.00	0.00	-.12	.19	Z =	-2.12		BINOMIAL
12-A	.71	0.00	-2.48	4.37	-4.01	2.37	0.00	0.00	-.29	-.68	.01	.05		
12-B	-.20	0.00	1.36	-12.06	11.07	.03	0.00	0.00	-.20	0.00	.14	.01		
13	0.00	3.89	-4.21	0.00	0.00	0.00	0.00	0.00	0.00	.31	Z =	1.74		BINOMIAL
14	0.00	-.63	-4.82	-4.51	8.73	3.13	0.00	0.00	.45	-.65	.23	.04		
15	0.00	-6.78	1.43	6.70	-.37	4.55	0.00	0.00	.49	-1.17	.24	-.10		
16	0.00	-15.41	-.33	2.51	10.54	1.30	0.00	0.00	.28	-1.30	.52	-.24		
17	0.00	.39	5.76	-2.97	0.00	0.00	0.00	0.00	-2.02	-1.17	-.03	-.03		
18	0.00	-2.54	.38	3.97	0.00	0.00	0.00	0.00	-.52	-1.30	.06	-.03		
						SOURCES								
19	4.49	2.71	-7.62	-3.32	5.06	-.70	0.00	0.00	0.00	-.72	-.06	.06		
20	-8.42	-4.52	.03	2.78	7.34	3.77	0.00	0.00	0.00	-.59	.51	.16		
21	5.61	-1.26	-2.21	.48	-1.65	.33	0.00	0.00	0.00	-1.30	-.12	.04		
22	-4.18	6.64	-1.29	-.96	2.35	-1.37	0.00	0.00	-.13	-1.30	.02	-.05		
23	5.25	.91	.00	-1.16	-4.12	-1.46	0.00	0.00	1.02	-1.24	-.25	-.22		
24	-.46	.86	-.62	-.07	.61	1.62	0.00	0.00	0.00	-1.94	.08	.09		
25	7.15	1.87	-3.36	-2.75	-.94	-1.04	0.00	0.00	.57	-1.50	-.23	-.25		
26	.95	8.24	-.89	-6.03	2.71	-2.62	0.00	0.00	.32	-2.68	-.20	.01		
27	8.81	-1.44	-3.62	-1.58	-3.22	1.47	0.00	0.00	-.78	1.16	-.22	.02		
28	-5.51	2.46	-2.90	-.66	6.68	-1.49	0.00	0.00	0.00	1.54	-.26	-.02		
29	3.14	.38	3.45	-4.90	-1.24	-2.35	0.00	0.00	-.26	1.73	-.26	-.23		
30	6.86	.39	-.24	-2.33	-2.65	-3.49	0.00	0.00	-.26	1.73	-.38	-.14		
31	2.50	5.23	-.05	-1.83	-.11	-6.28	0.00	0.00	0.00	.27	-.35	-.18		
32	3.22	3.16	.75	-5.69	-.96	-1.07	0.00	0.00	0.00	.58	-.24	-.22		
33	-6.77	9.69	1.26	-1.59	-2.96	-1.90	0.00	0.00	0.00	2.30	-.13	-.22		
34-A	8.25	-.63	-3.07	-1.73	1.26	-1.36	0.00	-2.09	-.13	-.33	-.32	-.26		
34-B	0.00	0.00	-10.16	-1.81	2.51	-.20	0.00	0.00	0.00	9.67	.45	.21		
						ACTIVITY								
35	-8.72	1.36	1.16	.63	4.38	1.40	0.00	0.00	0.00	-.15	.36	.10		
36	-6.27	-.75	-3.84	6.17	5.27	.53	0.00	0.00	0.00	-1.11	.33	.11		
37	-.82	.78	.18	-1.15	2.52	-.92	0.00	0.00	0.00	-.66	.02	-.01		
38	1.81	-.38	.96	-1.56	2.21	-1.14	0.00	0.00	0.00	-1.11	-.01	-.02		
39	-.74	.34	-3.00	.99	3.84	-.56	0.00	0.00	.45	-.11	.08	.03		
						INDIVIDUAL								
40	0.00	7.97	-6.80	0.00	0.00	0.00	0.00	0.00	0.00	-1.17	Z =	4.65		BINOMIAL
41	0.00	7.34	-7.16	0.00	0.00	0.00	0.00	0.00	-.12	-.06	Z =	3.67		BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.23	.16		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.53	-.24		
44	0.00	6.56	-2.79	-6.29	0.00	0.00	0.00	0.00	1.99	.50	-.14	-.01		
45	0.00	-1.86	1.17	0.00	0.00	0.00	0.00	0.00	.93	-.24	Z =	1.25		BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.16	.14		
51	9.65	43.07	.74	30.45	16.09	-11.53	-10.69	-17.26	-20.68	-39.83	-5.71	-.40		
52	0.00	27.11	6.90	-7.34	-7.98	-6.61	-3.18	-4.28	6.18	-16.81	-1.38	-.62		

QUESTION 52 - CATEGORIES 1 AND 2 (ALL SITES)

NUMBER OF RESPONDENTS = 700

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	65.29	34.57	.14	0.00	0.00	0.00	0.00	0.00	0.00	1.35	.48	720	
3	0.00	2.31	16.71	8.93	8.21	5.19	5.48	4.32	3.17	45.68	6.21	2.96	694	
4	0.00	15.29	37.43	34.43	8.43	3.43	0.00	0.00	.57	.43	2.47	.97	693	
5	0.00	16.00	75.43	0.00	0.00	0.00	0.00	0.00	2.57	6.00	Z = -16.44		660	BINOMIAL
6	0.00	6.14	66.66	0.00	0.00	0.00	0.00	0.00	10.00	17.00	Z = -18.60		511	BINOMIAL
7	0.00	13.43	56.71	0.00	0.00	0.00	0.00	0.00	10.71	19.14	Z = -13.67		691	BINOMIAL
8	0.00	5.29	35.57	0.00	0.00	0.00	0.00	0.00	21.00	34.14	Z = -12.54		286	BINOMIAL
9	0.00	29.26	67.14	0.00	0.00	0.00	0.00	0.00	3.00	.57	Z = -10.20		676	BINOMIAL
10	0.00	1.57	26.57	0.00	0.00	0.00	0.00	0.00	.71	71.14	Z = -12.47		197	BINOMIAL
NOISE														
11	0.00	52.86	38.00	0.86	0.00	0.00	0.00	0.00	.14	.14	Z = 4.13		698	BINOMIAL
12-A	.54	0.00	7.03	47.57	37.03	7.03	0.00	0.00	.27	.54	3.43	.77	367	
12-B	.38	0.00	11.28	42.86	36.44	8.65	0.00	0.00	0.00	0.00	3.43	.83	266	
13	0.00	51.57	44.14	0.00	0.00	0.00	0.00	0.00	0.00	.29	Z = .91		698	BINOMIAL
14	0.00	5.64	24.95	35.81	22.26	11.57	0.00	0.00	.36	.30	3.00	1.06	335	
15	0.00	17.86	10.39	14.86	24.04	30.86	0.00	0.00	1.73	.26	3.41	1.47	350	
16	0.00	29.38	1.19	3.86	59.35	1.78	0.00	0.00	4.15	.30	3.03	1.39	322	
17	0.00	27.60	42.14	28.69	0.00	0.00	0.00	0.00	1.78	0.00	2.01	.76	331	
18	0.00	16.62	21.07	61.72	0.00	0.00	0.00	0.00	.59		2.45	.76	335	
SOURCES														
19	52.52	14.24	11.28	7.12	6.31	5.23	0.00	0.00	.30		1.83	1.62	334	
20	19.29	24.84	15.68	13.65	14.24	8.31	0.00	0.00	0.00	.30	2.95	1.57	336	
21	25.52	28.19	16.91	11.67	17.21	7.72	0.00	0.00	0.00	.89	1.96	1.66	334	
22	28.35	36.31	12.76	10.68	8.61	2.97	0.00	0.00	0.00	.30	1.43	1.39	336	
23	44.81	29.67	11.28	4.15	5.64	3.56	0.00	0.00	.59	.89	1.04	1.33	332	
24	54.81	16.32	9.50	4.75	9.79	4.45	0.00	0.00	0.00	1.19	1.12	1.56	333	
25	66.77	21.36	4.15	2.46	3.26	.59	0.00	0.00	0.00	1.72	.83	.99	331	
26	10.48	17.51	23.18	18.99	23.74	7.42	0.00	0.00	.33	1.19	2.61	1.48	332	
27	44.81	12.76	5.34	9.20	12.17	4.75	0.00	0.00	.59	10.39	1.39	1.71	300	
28	12.17	25.82	15.13	14.66	13.95	4.45	0.00	0.00	0.00	9.79	2.11	1.44	324	
29	32.94	25.42	11.57	10.61	5.34	2.97	0.00	0.00	.30	10.09	1.39	1.40	302	
30	29.97	20.47	8.01	10.39	12.46	8.01	0.00	0.00	0.00	10.68	1.74	1.73	301	
31	22.26	16.62	12.46	13.95	15.73	6.26	0.00	0.00	0.00	9.79	2.13	1.71	304	
32	47.48	20.47	6.53	6.53	5.34	3.56	0.00	0.00	0.00	10.09	1.63	1.43	303	
33	32.05	19.66	8.39	14.64	8.90	3.26	0.00	0.00	0.00	10.68	1.53	1.53	301	
34-A	66.24	4.75	2.08	6.71	8.31	2.12	0.00	2.08	0.00	5.50	1.21	1.95	305	
34-B	0.00	0.00	15.13	1.44	5.04	1.19	0.00	0.00	77.15		2.66	.99	77	
ACTIVITY														
35	51.93	2.97	9.20	9.79	12.61	8.01	0.00	0.00	.59		1.62	1.87	335	
36	52.82	3.26	9.79	9.20	13.35	11.28	0.00	0.00	0.00	.30	1.61	1.91	336	
37	40.36	2.67	10.39	8.90	22.55	14.54	0.00	0.00	0.00	.59	2.14	1.99	335	
38	66.24	4.75	8.61	6.64	14.84	4.45	0.00	0.00	0.00	.30	1.24	1.72	336	
39	51.63	3.26	9.20	9.50	14.84	10.39	0.00	0.00	.30	.89	1.63	1.91	333	
INDIVIDUAL														
40	0.00	83.36	16.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 6.68		337	BINOMIAL
41	0.00	75.29	24.57	0.00	0.00	0.00	0.00	0.00	0.00	.14	Z = 13.43		699	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.54	5.31	695	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.65	11.24	681	
44	0.00	36.14	37.71	21.86	0.00	0.00	0.00	0.00	2.86	1.43	1.89	.76	670	
45	0.00	91.29	7.00	0.00	0.00	0.00	0.00	0.00	1.43	.29	Z = 22.49		686	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78	1.50	682	
51	4.71	17.74	.31	11.15	5.18	13.50	8.95	12.40	11.77	14.29	5.03	2.91	637	
52	0.00	52.00	48.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	.50	700	

QUESTION 52 = CATEGORIES 5, 6 AND 7 (ALL SITES)

NUMBER OF RESPONDENTS = 258

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	51.76	48.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	.50	255	
3	0.00	1.97	10.63	14.57	8.27	5.12	8.66	8.69	4.72	39.37	6.17	2.77	254	
4	0.00	57.25	34.90	6.67	.78	.39	0.00	0.00	0.00	0.00	1.52	.69	255	
5	0.00	8.24	91.96	0.00	0.00	0.00	0.00	0.00	.39	.39	Z = -13.27		253	BINOMIAL
6	0.00	16.81	76.47	0.00	0.00	0.00	0.00	0.00	6.27	5.10	Z = -11.57		226	BINOMIAL
7	0.00	12.56	45.15	3.00	0.00	0.00	0.00	0.00	13.33	8.63	Z = -9.43		199	BINOMIAL
8	0.00	6.67	58.43	0.00	0.00	0.00	0.00	0.00	32.94	21.96	Z = -7.55		115	BINOMIAL
9	0.00	14.12	84.71	0.00	0.00	0.00	0.00	0.00	1.18	0.00	Z = -11.34		252	BINOMIAL
10	0.00	.25	12.94	0.00	0.00	0.00	0.00	0.00	0.00	86.27	Z = -5.24		35	BINOMIAL
						NOISE								
11	0.00	72.55	23.53	3.92	0.00	0.00	0.00	0.00	0.00	0.00	Z = 7.99		255	BINOMIAL
12-A	0.00	0.00	5.95	40.37	41.08	12.43	0.00	0.00	.54	0.00	3.63	.78	184	
12-B	0.00	0.00	11.67	61.67	16.67	10.00	0.00	0.00	0.00	0.00	3.25	.79	60	
13	0.00	54.12	45.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 1.32		255	BINOMIAL
14	0.00	3.62	32.48	43.17	15.34	5.98	0.00	0.00	0.00	2.56	2.68	.93	114	
15	0.00	22.22	12.62	17.09	15.34	26.50	0.00	0.00	2.56	3.42	3.12	1.56	110	
16	0.00	47.01	0.00	1.71	46.15	0.00	0.00	0.00	1.71	3.42	2.50	1.49	111	
17	0.00	26.50	41.03	24.79	0.00	0.00	0.00	0.00	4.27	3.42	1.99	.75	108	
18	0.00	17.09	31.62	46.15	0.00	0.00	0.00	0.00	1.71	3.42	2.31	.76	111	
						SOURCES								
19	50.43	9.40	10.26	16.24	7.69	7.56	0.00	0.00	0.00	3.42	1.27	1.54	113	
20	29.91	35.04	13.68	7.69	9.40	.85	0.00	0.00	0.00	3.42	1.32	1.30	113	
21	23.08	22.22	22.22	5.13	15.38	11.26	0.00	0.00	0.00	1.71	1.98	1.67	115	
22	29.06	41.88	15.38	6.84	4.27	.85	0.00	0.00	0.00	1.71	1.17	1.11	116	
23	32.48	35.04	13.68	5.98	3.42	5.13	0.00	0.00	0.00	4.27	1.25	1.36	112	
24	56.12	21.37	5.13	.85	7.69	2.56	0.00	0.00	0.00	4.27	.61	1.35	112	
25	45.30	31.62	7.69	7.69	3.42	.85	0.00	0.00	0.00	3.42	.91	1.15	113	
26	11.11	9.40	18.80	24.79	19.66	6.84	0.00	0.00	0.00	9.40	2.58	1.44	106	
27	26.50	19.66	16.24	11.11	10.26	7.69	0.00	0.00	0.00	8.55	1.80	1.63	107	
28	13.68	36.75	13.68	11.97	12.82	1.71	0.00	0.00	0.00	9.40	1.76	1.35	106	
29	29.06	35.04	11.11	8.55	6.84	0.00	0.00	0.00	0.00	9.40	1.22	1.21	106	
30	29.06	23.08	7.69	14.53	12.82	3.42	0.00	0.00	0.00	9.40	1.66	1.58	106	
31	12.26	15.38	17.09	16.24	17.09	16.53	0.00	0.00	0.00	9.40	2.66	1.61	106	
32	48.72	12.80	5.13	7.69	5.13	4.27	0.00	0.00	0.00	10.26	1.05	1.49	105	
33	42.74	12.82	11.97	12.82	5.13	4.27	0.00	0.00	0.00	10.26	1.70	1.54	105	
34-A	54.70	2.56	9.40	.85	7.69	7.69	0.00	6.84	0.00	10.26	1.57	2.30	105	
34-B	0.00	0.00	24.79	1.71	5.98	0.00	0.00	0.00	0.00	67.52	2.42	.78	36	
						ACTIVITY								
35	58.38	1.71	0.00	5.13	7.69	4.27	0.00	0.00	0.00	3.42	.91	1.56	113	
36	61.54	3.42	5.98	6.84	14.53	5.13	0.00	0.00	0.00	3.42	1.21	1.76	113	
37	33.33	7.69	9.40	9.40	22.22	14.53	0.00	0.00	0.00	3.42	2.24	1.94	113	
38	63.25	5.13	10.26	7.69	5.98	4.27	0.00	0.00	0.00	3.42	.97	1.53	113	
39	56.43	3.42	10.26	13.68	13.68	5.13	0.00	0.00	0.00	3.42	1.50	1.75	113	
						INDIVIDUAL								
40	0.00	76.07	20.51	0.00	0.00	0.00	0.00	0.00	0.00	3.42	Z =	5.65	113	BINOMIAL
41	0.00	56.47	43.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 2.07		255	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.83	4.94	253	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.20	10.88	245	
44	0.00	30.59	35.22	29.80	0.00	0.00	0.00	0.00	.39	0.00	1.99	.78	254	
45	0.00	95.29	4.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 14.47		255	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.22	1.45	254	
51	.40	1.20	0.00	0.00	.40	1.61	2.81	7.63	23.69	62.25	8.31	1.33	249	
52	0.00	0.00	0.00	0.00	0.00	44.27	22.35	31.37	0.00	0.00	5.85	.87	255	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 52 (CATEGORIES 1 + 2 = 5,6,7) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	13.52	-13.66	.14	0.00	0.00	0.00	0.00	0.00	0.00	-.11	-.02		
3	0.00	.34	6.08	-5.63	-.05	.07	-3.19	-2.37	-1.55	6.31	.04	.18		
4	0.00	-41.97	2.53	27.76	7.66	3.04	0.00	0.00	.57	.43	.95	.28		
5	0.00	7.76	-15.55	0.00	0.00	0.00	0.00	0.00	2.18	5.61	Z =	-3.18	BINOMIAL	
6	0.00	-4.05	-11.67	0.00	0.00	0.00	0.00	0.00	3.73	11.90	Z =	-7.23	BINOMIAL	
7	0.00	.49	-5.38	0.00	0.00	0.00	0.00	0.00	-2.62	10.52	Z =	-4.25	BINOMIAL	
8	0.00	-1.34	-2.86	0.00	0.00	0.00	0.00	0.00	-11.44	16.18	Z =	-4.98	BINOMIAL	
9	0.00	15.17	-17.56	0.00	0.00	0.00	0.00	0.00	1.82	.57	Z =	1.14	BINOMIAL	
10	0.00	.79	11.61	0.00	0.00	0.00	0.00	0.00	.71	-15.13	Z =	-7.23	BINOMIAL	
						NOISE								
11	0.00	-19.69	14.47	4.94	0.00	0.00	0.00	0.00	.14	.14	Z =	-3.86	BINOMIAL	
12=A	.54	0.00	1.08	2.67	-4.05	-5.41	0.00	0.00	-.27	.54	-.18	-.01		
12=B	.38	0.00	-.39	-18.81	20.14	-1.35	0.00	0.00	0.00	0.00	.17	.04		
13	0.00	-2.55	2.24	0.00	0.00	0.00	0.00	0.00	0.00	.29	Z =	-.41	BINOMIAL	
14	0.00	2.22	-7.55	-5.16	6.87	5.59	0.00	0.00	-.30	-2.27	.22	.15		
15	0.00	-4.42	2.43	-2.26	6.65	4.36	0.00	0.00	-.78	-3.12	.29	-.06		
16	0.00	-17.63	1.19	2.13	13.15	1.76	0.00	0.00	2.46	-3.12	.54	-.10		
17	0.00	1.10	1.11	5.79	0.00	0.00	0.00	0.00	-2.46	-3.42	.03	.01		
18	0.00	-.48	-10.56	15.47	0.00	0.00	0.00	0.00	-1.71	-2.83	.15	.01		
						SOURCES								
19	2.39	4.64	1.02	-9.12	.62	1.67	0.00	0.00	0.00	-3.12	-.04	-.08		
20	-13.63	-11.01	6.21	6.25	4.64	7.46	0.00	0.00	0.00	-3.12	.71	.27		
21	2.44	-2.94	-5.31	6.44	1.83	-2.54	0.00	0.00	0.00	-.62	-.00	-.01		
22	.32	-6.57	-2.62	3.84	4.33	2.11	0.00	0.00	0.00	-1.41	.26	.28		
23	12.33	-5.37	-2.40	-1.03	1.63	-1.57	0.00	0.00	.55	-3.38	-.21	-.03		
24	-4.11	-5.65	4.37	3.69	2.10	1.89	0.00	0.00	0.00	-3.09	.31	.21		
25	21.42	-16.26	-3.54	-5.62	-.15	-.26	0.00	0.00	0.00	-1.64	-.38	-.16		
26	-.43	8.11	1.37	-5.69	4.68	.58	0.00	0.00	.30	-3.21	-.08	.04		
27	18.31	-6.96	-11.95	-1.91	1.91	-2.94	0.00	0.00	.59	1.84	-.42	.07		
28	-1.51	-16.54	1.46	6.71	1.13	2.74	0.00	0.00	0.00	.39	.34	.09		
29	3.68	-5.23	.46	2.43	-1.56	2.97	0.00	0.00	.30	.65	.14	.19		
30	.91	-2.60	.37	-4.14	-.36	4.59	0.00	0.00	0.00	1.28	.14	.15		
31	12.30	1.23	-4.61	-2.29	-1.37	-5.33	0.00	0.00	0.00	.39	-.51	.10		
32	-1.24	1.67	1.40	-1.16	.21	-.71	0.00	0.00	0.00	-.17	-.02	-.05		
33	-10.69	7.06	-1.58	2.02	3.77	-1.01	0.00	0.00	0.00	.43	.23	-.01		
34=A	-5.54	2.19	-2.32	5.38	.32	-.57	0.00	-4.76	0.00	-.76	-.16	-.36		
34=B	0.00	0.00	-9.65	-.21	-.54	1.19	0.00	0.00	0.00	9.63	.24	.21		
						ACTIVITY								
35	-16.45	1.26	-.20	4.66	9.32	-3.74	0.00	0.00	0.00	-2.83	.71	.31		
36	-8.72	-.15	3.81	3.22	-1.18	.6.15	0.00	0.00	0.00	-3.12	.39	.15		
37	7.02	-5.82	.98	-.59	.31	.01	0.00	0.00	0.00	-2.83	-.14	.04		
38	-3.31	-.33	-1.65	-.87	8.85	.18	0.00	0.00	0.00	-3.12	.27	.19		
39	1.20	-.15	-1.06	-.18	1.16	5.28	0.00	0.00	.30	-2.53	.17	.16		
						INDIVIDUAL								
40	0.00	7.31	-3.90	0.00	0.00	0.30	0.00	0.00	0.00	-3.42	Z =	1.02	BINOMIAL	
41	0.00	18.82	-18.96	0.00	0.00	0.00	0.00	0.00	0.00	.14	Z =	11.36	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.71	.37		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	.32		
44	0.00	5.55	-1.53	-7.95	0.00	0.00	0.00	0.00	2.46	1.43	-.14	-.01		
45	0.00	-4.81	2.29	0.00	0.00	0.00	0.00	0.00	1.43	.29	Z =	8.03	BINOMIAL	
46	0.00	0.00	3.83	-9.00	0.00	0.00	0.00	0.00	0.00	0.00	-.45	.85		
51	4.31	16.53	.31	11.15	4.78	11.89	6.14	4.77	-11.92	-47.96	-3.28	1.58		
52	0.00	52.00	48.00	0.00	0.00	-44.27	-22.35	-31.37	0.00	0.00	-4.37	-.37		

RESPONDENTS WITH DURATION OF RESIDENCE ≤ 6 MONTHS (ALL SITES)

NUMBER OF RESPONDENTS = 35

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	54.29	45.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.46	.50	35	
3	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	35	
4	0.00	14.29	42.86	25.71	11.43	0.00	0.00	0.00	2.86	2.86	2.36	.88	33	
5	0.00	8.57	85.71	0.00	0.00	0.00	0.00	0.00	2.86	2.86	Z =	-4.70	33	BINOMIAL
6	0.00	11.43	68.57	0.00	0.00	0.00	0.00	0.00	5.71	14.29	Z =	-3.78	28	BINOMIAL
7	0.00	11.43	60.00	0.00	0.00	0.00	0.00	0.00	22.86	5.71	Z =	-3.40	25	BINOMIAL
8	0.00	5.71	48.57	0.00	0.00	0.00	0.00	0.00	25.71	20.00	Z =	-3.44	19	BINOMIAL
9	0.00	34.29	62.86	0.00	0.00	0.00	0.00	0.00	2.86	0.00	Z =	-1.71	34	BINOMIAL
10	0.00	2.86	28.57	0.00	0.00	0.00	0.00	0.00	2.86	65.71	Z =	-2.71	11	BINOMIAL
NOISE														
11	0.00	51.43	42.86	5.71	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.92	35	BINOMIAL
12-A	0.00	0.00	5.56	38.89	50.00	5.56	0.00	0.00	0.00	0.00	3.56	.66	18	
12-B	0.00	0.00	13.33	46.67	33.33	6.67	0.00	0.00	0.00	0.00	3.33	.79	15	
13	0.00	34.29	65.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.86	35	BINOMIAL
14	0.00	4.35	43.48	30.43	17.39	4.35	0.00	0.00	0.00	0.00	2.74	.94	23	
15	0.00	8.70	21.74	13.04	30.43	21.74	0.00	0.00	4.35	0.00	3.36	1.30	23	
16	0.00	30.43	0.00	0.00	26.09	0.00	0.00	0.00	43.48	0.00	2.34	1.50	13	
17	0.00	26.09	26.09	34.78	0.00	0.00	0.00	0.00	13.04	0.00	2.10	.83	23	
18	0.00	17.39	8.70	73.91	0.00	0.00	0.00	0.00	0.00	0.00	2.57	.77	23	
SOURCES														
19	65.22	4.35	13.04	4.35	8.70	4.35	0.00	0.00	0.00	0.00	1.00	1.56	23	
20	13.04	34.78	13.04	13.04	17.39	8.70	0.00	0.00	0.00	0.00	2.13	1.57	23	
21	34.78	26.09	21.74	8.70	4.35	4.35	0.00	0.00	0.00	0.00	1.39	1.37	23	
22	39.13	30.43	4.35	17.39	8.70	0.00	0.00	0.00	0.00	0.00	1.26	1.36	23	
23	65.22	17.39	4.35	4.35	8.70	0.00	0.00	0.00	0.00	0.00	.74	1.26	23	
24	43.48	26.09	4.35	13.04	8.70	4.35	0.00	0.00	0.00	0.00	1.30	1.54	23	
25	69.57	13.04	4.35	4.35	0.00	0.00	0.00	0.00	0.00	8.70	.38	.79	21	
26	8.70	13.04	21.74	13.04	30.43	13.04	0.00	0.00	0.00	0.00	2.83	1.50	23	
27	39.13	13.04	4.35	13.04	17.39	0.00	0.00	0.00	0.00	13.04	1.50	1.63	20	
28	8.70	21.74	17.39	26.09	17.39	0.00	0.00	0.00	0.00	8.70	2.24	1.27	21	
29	30.43	21.74	13.04	21.74	0.00	4.35	0.00	0.00	0.00	8.70	1.62	1.60	21	
30	30.43	17.39	4.35	8.70	17.39	13.04	0.00	0.00	0.00	8.70	2.05	1.91	21	
31	30.43	21.74	13.04	13.04	4.35	8.70	0.00	0.00	0.00	8.70	1.62	1.62	21	
32	43.48	26.09	8.70	0.70	0.00	4.35	0.00	0.00	0.00	8.70	1.00	1.31	21	
33	26.09	21.74	8.70	17.39	17.39	0.00	0.00	0.00	0.00	8.70	1.76	1.51	21	
34-A	60.87	13.04	0.00	4.35	0.00	13.04	0.00	0.00	0.00	8.70	1.00	1.77	21	
34-B	0.00	0.00	8.70	0.00	4.35	0.00	0.00	0.00	0.00	86.96	9.67	.94	3	
ACTIVITY														
35	73.91	0.00	4.35	13.04	4.35	4.35	0.00	0.00	0.00	0.00	.87	1.54	23	
36	52.17	8.70	8.70	13.04	13.04	4.35	0.00	0.00	0.00	0.00	1.39	1.69	23	
37	47.83	4.35	4.35	8.70	17.39	17.39	0.00	0.00	0.00	0.00	1.96	2.07	23	
38	52.17	8.70	8.70	13.04	13.04	4.35	0.00	0.00	0.00	0.00	1.39	1.69	23	
39	52.17	4.35	8.70	21.74	13.04	0.00	0.00	0.00	0.00	0.00	1.39	1.58	23	
INDIVIDUAL														
40	0.00	91.30	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.26	23	BINOMIAL
41	0.00	80.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.55	35	BINOMIAL
42											16.29	4.99	35	
43											32.91	12.23	34	
44	0.00	48.57	28.57	20.00	0.00	0.00	0.00	0.00	2.86	0.00	1.71	.79	34	
45	0.00	94.29	5.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.24	35	BINOMIAL
46											1.09	1.70	32	
51	0.00	15.15	0.00	12.12	3.03	6.06	12.12	6.06	12.12	33.33	6.06	2.93	33	
52	0.00	40.00	5.71	14.29	11.43	5.71	5.71	2.86	2.86	11.43	2.60	1.82	30	

RESPONDENTS WITH DURATION OF RESIDENCE > 60 MONTHS (ALL SITES)

NUMBER OF RESPONDENTS = 1126

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	65.19	34.72	.09	0.00	0.00	0.00	0.00	0.00	0.00	1.35	.48	1126	
3	0.00	0.00	0.00	0.00	0.00	0.00	1.63	8.85	7.59	81.93	8.70	.70	1107	
4	0.00	30.11	38.19	23.45	5.06	2.75	0.00	0.00	.09	.36	2.12	.99	1121	
5	0.00	14.39	78.86	0.00	0.00	0.00	0.00	0.00	2.40	4.35	Z = -22.40		1050	BINOMIAL
6	0.00	6.66	69.19	0.00	0.00	0.00	0.00	0.00	10.75	13.41	Z = -24.09		854	BINOMIAL
7	0.00	9.86	55.60	0.00	0.00	0.00	0.00	0.00	16.96	17.58	Z = -18.97		737	BINOMIAL
8	0.00	4.17	27.44	0.00	0.00	0.00	0.00	0.00	32.95	35.44	Z = -13.89		356	BINOMIAL
9	0.00	19.63	78.42	0.00	0.00	0.00	0.00	0.00	1.60	.36	Z = -19.92		1104	BINOMIAL
10	0.00	.80	18.21	0.00	0.00	0.00	0.00	0.00	.18	80.82	Z = -13.40		214	BINOMIAL
						NOISE								
11	0.00	64.48	29.95	6.39	0.00	0.00	0.00	0.00	.09	.09	Z = 12.33		1124	BINOMIAL
12-A	.41	0.00	5.65	46.69	36.91	9.23	0.00	0.00	.28	.83	3.49	.78	713	
12-B	0.00	0.00	15.96	45.71	29.45	8.59	0.00	0.00	.31	0.00	3.31	.84	325	
13	0.00	57.10	42.81	0.00	0.00	0.00	0.00	0.00	0.00	.09	Z = 4.88		1125	BINOMIAL
14	0.00	6.55	28.34	34.65	19.92	8.71	0.00	0.00	.41	.62	2.95	1.06	477	
15	0.00	24.69	9.75	19.56	19.71	27.18	0.00	0.00	2.07	1.04	3.15	1.56	467	
16	0.00	33.92	0.00	4.36	56.51	1.04	0.00	0.00	1.24	1.04	2.93	1.42	471	
17	0.00	32.16	42.74	23.03	0.00	0.00	0.00	0.00	1.24	.83	1.91	.74	472	
18	0.00	23.44	23.86	51.04	0.00	0.00	0.00	0.00	.41	1.24	2.28	.82	474	
						SOURCES								
19	60.37	14.32	8.92	6.43	6.64	1.87	0.00	0.00	0.00	1.45	.69	1.36	475	
20	32.78	27.59	14.11	9.75	11.00	3.73	0.00	0.00	0.00	1.04	1.49	1.49	477	
21	25.31	19.71	14.73	10.58	18.58	9.34	0.00	0.00	0.00	1.45	2.06	1.72	475	
22	25.46	37.55	14.73	9.34	5.81	1.45	0.00	0.00	0.00	1.66	1.28	1.23	474	
23	36.72	34.44	12.03	4.15	6.64	3.94	0.00	0.00	.21	1.87	1.20	1.37	472	
24	64.11	15.77	5.60	3.11	6.43	2.90	0.00	0.00	0.00	2.07	.78	1.36	472	
25	50.83	30.91	6.22	5.60	3.73	.62	0.00	0.00	0.00	2.07	.80	1.10	472	
26	18.05	17.22	15.98	18.46	21.37	5.81	0.00	0.00	.41	2.70	2.26	1.57	467	
27	38.17	16.60	6.22	5.60	11.00	4.56	0.00	0.00	1.04	16.80	1.37	1.66	396	
28	14.73	28.42	12.24	13.07	12.24	2.70	0.00	0.00	0.00	15.60	1.85	1.44	402	
29	34.02	27.39	6.85	7.26	6.19	1.87	0.00	0.00	.21	17.22	1.13	1.33	398	
30	29.86	21.78	7.05	10.17	9.54	4.36	0.00	0.00	.21	17.01	1.53	1.99	393	
31	16.60	13.49	11.20	11.83	21.78	9.13	0.00	0.00	0.00	15.98	2.43	1.71	405	
32	49.79	19.71	3.73	5.94	4.77	1.66	0.00	0.00	0.00	16.39	.79	1.27	403	
33	35.89	18.26	9.96	10.58	6.43	2.28	0.00	0.00	0.00	16.60	1.28	1.45	402	
34-A	64.32	4.15	3.94	3.32	6.85	3.32	0.00	2.49	0.00	11.62	.94	1.80	426	
34-B	0.00	0.00	14.73	1.45	2.07	.83	0.00	0.00	0.00	80.91	2.42	.85	92	
						ACTIVITY								
35	64.52	2.49	6.22	9.96	10.37	4.98	0.00	0.00	0.00	1.45	1.13	1.69	475	
36	62.45	3.11	9.54	6.85	9.06	6.43	0.00	0.00	0.00	1.66	1.17	1.71	474	
37	44.81	3.53	9.13	8.09	19.50	12.86	0.00	0.00	0.00	2.07	1.92	1.98	472	
38	69.29	4.15	8.71	5.60	8.51	2.07	0.00	0.00	0.00	1.66	.84	1.45	474	
39	57.05	3.73	9.54	9.34	12.86	5.39	0.00	0.00	.41	1.66	1.32	1.74	472	
						INDIVIDUAL								
40	0.00	78.63	20.12	0.00	0.00	0.00	0.00	0.00	0.00	1.24	Z =	5.89	476	BINOMIAL
41	0.00	64.92	34.64	0.00	0.00	0.00	0.00	0.00	0.00	.44	Z =	10.18	1121	BINOMIAL
42											17.62	5.27	1054	
43											36.04	11.23	1069	
44	0.00	33.30	42.54	21.67	0.00	0.00	0.00	0.00	1.95	.53	1.88	.74	1098	
45	0.00	95.83	4.17	0.00	0.00	0.00	0.00	0.00	.53	.27	Z =	30.61	1117	BINOMIAL
46											.85	1.42	1102	
51	2.88	10.14	.10	7.06	4.27	8.85	10.04	13.92	16.30	26.44	6.26	3.06	1006	
52	0.00	16.70	17.05	17.23	9.24	5.33	2.58	3.82	6.93	21.14	2.90	1.66	810	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF RESIDENCY (≤6 MONTHS - >60 MONTHS) FOR ALL SITES

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-10.00	10.99	-.09	0.00	0.00	0.00	0.00	0.00	0.00	.11	.02		
3	0.00	100.00	0.00	0.00	0.00	0.00	-1.63	-6.85	-7.59	-81.93	-7.70	-.70		
4	0.00	-15.82	4.67	2.27	6.37	-2.75	0.00	0.00	2.77	2.50	.25	-.11		
5	0.00	-5.82	6.85	0.00	0.00	0.00	0.00	0.00	.46	-1.49	Z =	17.70		BINOMIAL
6	0.00	4.77	-.61	0.00	0.00	0.00	0.00	0.00	-5.03	.88	Z =	20.31		BINOMIAL
7	0.00	1.57	4.40	0.00	0.00	0.00	0.00	0.00	5.89	-11.87	Z =	15.57		BINOMIAL
8	0.00	1.54	21.13	0.00	0.00	0.00	0.00	0.00	-7.23	-15.44	Z =	10.44		BINOMIAL
9	0.00	14.66	-15.56	0.00	0.00	0.00	0.00	0.00	1.26	-.36	Z =	16.21		BINOMIAL
10	0.00	2.06	10.37	0.00	0.00	0.00	0.00	0.00	2.65	-15.10	Z =	10.68		BINOMIAL
						NOISE								
11	0.00	-13.05	13.91	-.66	0.00	0.00	0.00	0.00	-.09	-.09	Z =	-11.81		BINOMIAL
12-A	-.41	0.00	-.09	-7.81	13.09	-3.67	0.00	0.00	-.28	-.83	.07	-.09		
12-B	0.00	0.00	-2.62	.96	3.89	-1.92	0.00	0.00	-.31	0.00	.03	-.05		
13	0.00	-22.82	22.91	0.00	0.00	0.00	0.00	0.00	0.00	-.09	Z =	-6.66		BINOMIAL
14	0.00	-2.50	14.64	-4.21	-2.53	-4.37	0.00	0.00	-.41	-.62	-.21	-.12		
15	0.00	-15.99	11.99	-2.52	10.73	-5.44	0.00	0.00	2.27	-1.04	.31	-.26		
16	0.00	-3.38	0.00	-4.36	-32.42	-1.04	0.00	0.00	42.23	-1.04	-.54	.07		
17	0.00	-6.07	-16.65	11.75	0.00	0.00	0.00	0.00	11.83	-.83	.15	.09		
18	0.00	-6.05	-15.16	22.88	0.00	0.00	0.00	0.00	-.41	-1.24	.28	-.05		
						SOURCES								
19	4.84	-9.97	4.12	-2.08	2.06	2.48	0.00	0.00	0.00	-1.45	.11	.20		
20	-19.74	7.19	-1.06	3.29	6.40	4.96	0.00	0.00	0.00	-1.04	.64	.08		
21	9.47	6.38	7.01	-1.89	-14.53	-4.99	0.00	0.00	0.00	-1.45	-.71	-.35		
22	9.67	-7.12	-10.38	8.06	2.89	-1.45	0.00	0.00	0.00	-1.66	-.02	.13		
23	28.50	-17.05	-7.69	.20	2.06	-3.34	0.00	0.00	-.21	-1.87	-.46	-.11		
24	-20.63	10.32	-1.25	9.93	2.26	1.44	0.00	0.00	0.00	-2.07	.52	.16		
25	18.74	-17.87	-1.88	-1.25	-3.73	-.62	0.00	0.00	0.00	6.62	-.42	-.32		
26	-9.35	-4.18	5.76	-5.42	9.07	7.23	0.00	0.00	-.41	-3.70	.56	-.05		
27	.96	-3.59	-1.88	7.44	6.40	-4.56	0.00	0.00	-1.04	-3.76	.13	-.04		
28	-6.03	-6.68	5.15	13.02	5.15	-2.70	0.00	0.00	0.00	-7.90	.38	-.17		
29	-3.59	-5.65	6.20	14.48	-5.19	2.48	0.00	0.00	-.21	-8.57	.35	.08		
30	.58	-4.39	-2.71	-1.47	7.85	8.69	0.00	0.00	-.21	-8.32	.52	.32		
31	13.64	8.25	1.84	1.22	-17.44	-.43	0.00	0.00	0.00	-7.28	-.81	-.09		
32	-6.31	6.38	4.96	4.75	-4.77	2.69	0.00	0.00	0.00	-7.69	.21	.04		
33	-9.81	3.48	-1.26	6.81	10.36	-2.28	0.00	0.00	0.00	-7.90	.43	.06		
34-A	-3.45	8.89	-3.94	1.03	-6.85	9.72	0.00	-2.49	0.00	-2.92	.06	-.02		
34-B	0.00	0.00	-6.03	-1.45	2.27	-.63	0.00	0.00	0.00	6.04	.24	.09		
						ACTIVITY								
35	9.39	-2.49	-1.88	3.08	-6.03	-.63	0.00	0.00	0.00	-1.45	-.26	-.15		
36	-10.27	5.58	-.85	0.20	3.08	-2.06	0.00	0.00	0.00	-1.66	.22	-.03		
37	3.01	.82	-4.78	.60	-2.11	4.53	0.00	0.00	0.00	-2.07	.03	.09		
38	-17.12	4.55	-.02	7.44	4.54	2.27	0.00	0.00	0.00	-1.66	.55	.23		
39	-4.88	.61	-.85	12.40	.18	-5.39	0.00	0.00	-.41	-1.66	.07	-.16		
						INDIVIDUAL								
40	0.00	12.67	-11.43	0.00	0.00	0.00	0.00	0.00	0.00	-1.24	Z =	2.37		BINOMIAL
41	0.00	15.08	-14.64	0.00	0.00	0.00	0.00	0.00	0.00	-.44	Z =	-6.64		BINOMIAL
42											-1.34	-.28		
43											-5.13	1.00		
44	0.00	15.27	-13.97	-1.67	0.00	0.00	0.00	0.00	.90	-.53	-.17	.05		
45	0.00	-.74	1.54	0.00	0.00	0.00	0.00	0.00	-.53	-.27	Z =	-25.37		BINOMIAL
46											.24	.28		
51	-2.88	5.01	-.10	5.06	-1.24	-2.79	2.08	-7.86	-4.18	6.89	-.20	-.13		
52	0.00	23.30	-11.34	-2.94	2.19	.39	3.14	-.96	-4.07	-9.71	-.30	.16		

BOLT BERANEK AND NEWMAN INC. — EPA 24 SITE SURVEY

QUESTION 4 - CATEGORIES 1 AND 2 (ALL SITES)

NUMBER OF RESPONDENTS = 1412

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	61.61	38.31	.07	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	1412	
3	0.00	1.43	11.44	12.01	6.93	6.15	6.86	5.15	4.57	43.46	6.32	2.70	1399	
4	0.00	43.48	56.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	.50	1412	
5	0.00	16.93	80.95	0.00	0.00	0.00	0.00	0.00	1.35	.78	Z = -24.32		1382	BINOMIAL
6	0.00	8.99	75.99	0.00	0.00	0.00	0.00	0.00	8.85	6.18	Z = -27.31		1200	BINOMIAL
7	0.00	12.18	52.90	0.00	0.00	0.00	0.00	0.00	18.56	16.36	Z = -18.97		916	BINOMIAL
8	0.00	5.81	26.42	0.00	0.00	0.00	0.00	0.00	36.26	31.52	Z = -13.66		495	BINOMIAL
9	0.00	15.37	83.43	0.00	0.00	0.00	0.00	0.00	.99	.21	Z = -25.73		1395	BINOMIAL
10	0.00	.50	14.02	0.00	0.00	0.00	0.00	0.00	.50	84.99	Z = -13.34		205	BINOMIAL
						NOISE								
11	0.00	72.59	21.67	5.52	0.00	0.00	0.00	0.00	.07	.14	Z = 19.71		1409	BINOMIAL
12-A	.39	0.00	6.73	43.61	39.22	9.27	0.00	0.00	.29	.49	3.56	.79	1017	
12-B	.33	0.00	15.03	50.65	26.47	7.19	0.00	0.00	.33	0.00	3.25	.83	395	
13	0.00	39.28	60.58	0.00	0.00	0.00	0.00	0.00	0.00	.14	Z = 7.03		1410	BINOMIAL
14	0.00	7.50	34.21	33.33	16.75	6.98	0.00	0.00	.35	.87	2.81	1.03	566	
15	0.00	26.70	12.57	13.26	19.55	24.26	0.00	0.00	2.09	1.57	3.09	1.56	552	
16	0.00	43.63	.87	3.37	45.60	1.57	0.00	0.00	2.27	1.75	2.60	1.49	550	
17	0.00	32.11	37.87	26.00	0.00	0.00	0.00	0.00	2.44	1.57	1.94	.78	550	
18	0.00	22.34	24.94	50.44	0.00	0.00	0.00	0.00	.70	1.57	2.29	.81	860	
19	53.40	12.04	11.52	9.25	8.38	3.84	0.00	0.00	0.00	1.57	1.17	1.55	534	
						SOURCES								
20	35.43	31.41	14.66	8.55	5.24	3.14	0.00	0.00	0.00	1.57	1.25	1.34	564	
21	24.78	24.26	17.28	12.22	11.87	8.20	0.00	0.00	0.00	1.40	1.87	1.61	566	
22	31.76	35.25	15.71	8.90	5.58	1.40	0.00	0.00	0.00	1.40	1.24	1.23	565	
23	35.08	33.33	12.22	6.29	6.63	6.01	0.00	0.00	.35	2.09	1.25	1.37	559	
24	62.83	17.28	7.50	3.84	4.19	2.09	0.00	0.00	0.00	2.27	.73	1.34	563	
25	50.96	28.45	8.38	5.76	3.14	1.05	0.00	0.00	.17	2.09	.62	1.13	569	
26	15.61	15.18	19.20	19.20	19.55	6.28	0.00	0.00	.17	5.41	2.34	1.52	561	
27	35.95	18.67	8.73	7.68	9.60	4.36	0.00	0.00	.70	14.31	1.46	1.60	487	
28	15.18	28.10	15.18	14.14	10.30	3.74	0.00	0.00	0.00	13.36	1.83	1.41	493	
29	35.08	25.31	10.30	7.85	4.89	2.09	0.00	0.00	.35	14.14	1.16	1.33	470	
30	30.02	20.24	7.85	12.39	10.30	5.06	0.00	0.00	.17	13.96	1.63	1.63	492	
31	16.56	15.18	12.57	13.61	18.32	10.12	0.00	0.00	0.00	11.61	2.37	1.69	495	
32	47.99	20.24	5.06	5.24	4.19	3.49	0.00	0.00	0.00	13.79	.93	1.39	494	
33	38.57	17.10	9.95	10.82	6.81	2.79	0.00	0.00	0.00	13.96	1.29	1.49	493	
34-A	62.83	5.06	4.89	4.89	4.19	5.41	0.00	2.79	0.00	9.95	1.03	1.86	516	
34-B	0.00	0.00	19.02	.87	2.79	.70	0.00	0.00	0.00	75.61	2.37	.81	134	
35	67.02	2.79	6.90	7.50	9.08	3.14	0.00	0.00	0.00	1.57	.97	1.55	564	
						ACTIVITY								
36	61.78	4.19	9.25	7.16	10.12	5.58	0.00	0.00	0.00	1.92	1.15	1.88	562	
37	42.66	4.71	9.95	8.38	19.55	13.26	0.00	0.00	0.00	2.09	1.98	1.97	561	
38	66.84	4.01	9.77	5.76	8.73	3.14	0.00	0.00	0.00	1.75	.93	1.62	563	
39	57.24	3.49	6.73	10.99	11.87	5.76	0.00	0.00	0.00	1.92	1.33	1.74	562	
40	0.00	82.20	16.23	0.00	0.00	0.00	0.00	0.00	0.00	1.57	Z = 6.65		564	BINOMIAL
						INDIVIDUAL								
41	0.00	68.98	30.59	0.00	0.00	0.00	0.00	0.00	.14	.28	Z = 14.45		1406	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.04	5.16	1388	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.74	11.02	1353	
44	0.00	31.16	41.71	25.50	0.00	0.00	0.00	0.00	1.27	.35	1.94	.76	1389	
45	0.00	95.68	3.75	0.00	0.00	0.00	0.00	0.00	.28	.28	Z = 34.64		1404	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.94	1.38	1379	
51	1.42	7.28	.16	4.19	3.16	7.91	7.91	12.74	18.99	35.23	6.00	2.64	1264	
52	0.00	11.47	14.66	19.19	11.97	7.44	3.68	5.52	5.95	20.11	3.30	1.71	1044	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 4 = ALL CATEGORIES EXCEPT 1 AND 2 (ALL SITES)

NUMBER OF RESPONDENTS = 625

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	64.64	35.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	.48	625	
3	0.00	2.42	13.73	3.72	7.59	5.98	5.82	4.20	3.23	48.30	6.41	2.88	619	
4	0.00	0.00	0.00	74.24	16.44	7.04	0.00	0.00	1.28	.80	3.31	.60	612	
5	0.00	7.20	77.60	0.00	0.00	0.00	0.00	0.00	4.32	10.88	Z = -19.11		530	BINOMIAL
6	0.00	3.84	57.12	0.00	0.00	0.00	0.00	0.00	14.24	24.80	Z = -17.06		381	BINOMIAL
7	0.00	12.16	71.36	0.00	0.00	0.00	0.00	0.00	6.08	10.40	Z = -16.19		522	BINOMIAL
8	0.00	5.92	44.16	0.00	0.00	0.00	0.00	0.00	20.00	29.92	Z = -13.51		313	BINOMIAL
9	0.00	41.28	54.88	0.00	0.00	0.00	0.00	0.00	3.52	.32	Z = -3.47		601	BINOMIAL
10	0.00	2.72	39.40	0.00	0.00	0.00	0.00	0.00	.16	58.72	Z = -13.91		257	BINOMIAL
						NOISE								
11	0.00	36.64	53.28	9.92	0.00	0.00	0.00	0.00	.16	0.00	Z = -4.39		624	BINOMIAL
12-A	0.00	0.00	8.30	65.07	20.96	4.80	0.00	0.00	0.00	.87	3.22	.66	227	
12-B	0.00	0.00	10.81	39.34	37.84	12.01	0.00	0.00	0.00	0.00	3.51	.84	333	
13	0.00	39.84	59.68	0.00	0.00	0.00	0.00	0.00	0.00	.48	Z = -4.97		622	BINOMIAL
14	0.00	2.68	20.91	35.39	27.61	13.40	0.00	0.00	0.00	0.00	3.28	1.02	373	
15	0.00	15.28	9.65	18.23	24.66	30.50	0.00	0.00	1.61	0.00	3.46	1.41	367	
16	0.00	27.08	.80	4.29	64.34	.27	0.00	0.00	3.22	0.00	3.10	1.34	361	
17	0.00	30.03	45.04	23.06	0.00	0.00	0.00	0.00	1.88	0.00	1.93	.73	365	
18	0.00	19.03	20.64	60.05	0.00	0.00	0.00	0.00	0.00	.27	2.41	.79	372	
19	54.42	12.23	10.99	7.24	10.19	4.29	0.00	0.00	0.00	.54	1.19	1.59	371	
						SOURCES								
20	19.84	18.77	18.23	16.09	19.03	7.77	0.00	0.00	0.00	.27	2.19	1.60	372	
21	24.66	16.35	14.48	9.38	26.01	8.58	0.00	0.00	0.00	.54	2.22	1.74	371	
22	35.66	32.17	12.06	10.19	6.97	2.14	0.00	0.00	.27	.54	1.26	1.34	370	
23	50.40	27.68	10.19	2.95	5.63	2.68	0.00	0.00	.27	.80	.93	1.29	369	
24	56.03	13.94	7.24	5.90	11.26	5.09	0.00	0.00	0.00	.54	1.17	1.64	371	
25	64.34	23.86	4.29	2.68	2.95	.54	0.00	0.00	0.00	1.34	.56	.98	368	
26	12.87	15.01	16.09	17.96	24.13	11.80	0.00	0.00	.54	1.61	2.62	1.60	365	
27	47.72	10.72	4.29	7.51	12.33	4.83	0.00	0.00	.54	12.06	1.32	1.73	326	
28	12.87	21.72	14.75	17.96	15.55	5.36	0.00	0.00	0.00	11.80	2.29	1.50	329	
29	37.27	20.11	9.12	10.99	5.36	4.56	0.00	0.00	0.00	12.60	1.32	1.52	326	
30	32.98	14.75	8.85	9.12	11.53	9.65	0.00	0.00	.27	12.87	1.77	1.81	324	
31	20.39	13.94	12.87	12.87	18.77	9.12	0.00	0.00	0.00	12.06	2.25	1.72	328	
32	49.33	17.96	6.70	6.43	4.29	2.68	0.00	0.00	0.00	12.60	.93	1.36	326	
33	39.56	16.35	11.26	15.82	8.85	4.02	0.00	0.00	0.00	13.14	1.63	1.57	324	
34-A	59.79	2.68	3.22	4.83	9.92	6.17	0.00	2.95	.27	10.19	1.28	2.03	334	
34-B	0.00	0.00	13.67	2.41	5.09	.80	0.00	0.00	0.00	78.02	2.68	.95	82	
35	50.67	3.22	7.24	13.40	16.35	8.31	0.00	0.00	0.00	.80	1.66	1.87	370	
						ACTIVITY								
36	53.62	2.41	8.31	8.31	15.82	10.72	0.00	0.00	0.00	.80	1.62	1.93	370	
37	36.19	1.34	9.12	9.92	24.40	17.96	0.00	0.00	0.00	1.07	2.39	2.01	369	
38	58.45	4.83	7.77	7.51	15.55	4.83	0.00	0.00	0.00	1.07	1.31	1.75	369	
39	44.77	2.68	8.85	13.14	17.96	11.26	0.00	0.00	.54	.80	1.90	1.93	368	
40	0.00	75.87	24.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 5.17		373	BINOMIAL
						INDIVIDUAL								
41	0.00	71.84	27.84	0.00	0.00	0.00	0.00	0.00	0.00	.32	Z = 11.02		623	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.19	5.28	609	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.07	11.89	597	
44	0.00	39.04	35.68	21.76	0.00	0.00	0.00	0.00	2.40	1.12	1.82	.77	503	
45	0.00	88.83	9.44	0.00	0.00	0.00	0.00	0.00	1.76	0.00	Z = 20.02		614	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.98	1.64	605	
51	3.68	14.36	.18	12.26	4.39	11.38	9.26	15.06	9.81	19.61	5.49	3.15	571	
52	0.00	32.32	20.64	17.76	7.62	2.08	.80	.32	6.72	11.84	2.14	1.20	509	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 4 (CATEGORIES 1 AND 2 = THE REST) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-3.03	2.95	.07	0.00	0.00	0.00	0.00	0.00	0.00	.03	.01		
3	0.00	-.49	-2.30	3.28	1.34	.17	1.05	.95	1.34	-4.84	-.09	-.10		
4	0.00	43.48	56.52	-74.24	-16.64	-7.04	0.00	0.00	-1.28	-.80	-1.75	-.10		
5	0.00	9.73	3.35	0.00	0.00	0.00	0.00	0.00	-2.97	-10.10	Z =	-5.20	BINOMIAL	
6	0.00	5.15	18.87	0.00	0.00	0.00	0.00	0.00	-5.39	-18.64	Z =	-10.25	BINOMIAL	
7	0.00	.02	-18.46	0.00	0.00	0.00	0.00	0.00	12.48	5.96	Z =	-2.77	BINOMIAL	
8	0.00	-.11	-17.74	0.00	0.00	0.00	0.00	0.00	16.26	1.60	Z =	-.13	BINOMIAL	
9	0.00	-25.91	26.55	0.00	0.00	0.00	0.00	0.00	-2.53	-.11	Z =	-22.26	BINOMIAL	
10	0.00	-2.22	-24.38	0.00	0.00	0.00	0.00	0.00	.34	26.27	Z =	.57	BINOMIAL	
						NOISE								
11	0.00	35.95	-31.61	-4.40	0.00	0.00	0.00	0.00	-.09	.14	Z =	24.09	BINOMIAL	
12-A	.39	0.00	-1.57	-21.46	18.26	4.40	0.00	0.00	.29	-.39	.28	-.13		
12-B	.33	0.00	4.22	11.31	-11.37	-4.62	0.00	0.00	.33	0.00	-.26	-.02		
13	0.00	19.44	-19.10	0.00	0.00	0.00	0.00	0.00	0.00	-.34	Z =	12.00	BINOMIAL	
14	0.00	4.82	13.29	-2.06	-10.86	-5.42	0.00	0.00	.35	.87	-.47	.01		
15	0.00	11.42	2.91	-4.97	-5.12	-6.30	0.00	0.00	.45	1.57	-.44	.15		
16	0.00	16.55	.07	-.97	-17.75	1.30	0.00	0.00	-.95	1.75	-.50	.15		
17	0.00	2.08	-7.17	2.95	0.00	0.00	0.00	0.00	.57	1.57	.01	.04		
18	0.00	3.30	4.31	-9.62	0.00	0.00	0.00	0.00	.70	1.30	-.12	.02		
19	-1.02	-.29	.53	2.01	-1.81	-.45	0.00	0.00	0.00	1.03	-.01	-.04		
						SOURCES								
20	15.59	12.65	-3.57	-7.53	-13.80	-4.63	0.00	0.00	0.00	1.30	-.96	-.27		
21	.12	7.90	2.80	2.83	-14.14	-.38	0.00	0.00	0.00	.86	-.35	-.13		
22	-3.89	3.08	3.64	-1.29	-1.39	-.75	0.00	0.00	-.27	.86	-.02	-.11		
23	-15.32	6.26	2.03	3.33	1.00	1.33	0.00	0.00	.08	1.29	.33	.10		
24	6.80	3.34	.27	-2.06	-7.07	-3.00	0.00	0.00	0.00	1.73	-.45	-.40		
25	-13.38	4.59	4.09	3.08	.19	.51	0.00	0.00	.17	.75	.24	.15		
26	2.14	.17	3.11	1.23	-4.58	-5.51	0.00	0.00	-.36	3.80	-.28	-.08		
27	-11.77	7.95	4.44	.17	-2.73	-.46	3.00	0.00	.16	2.25	.09	-.13		
28	2.31	6.38	.44	-3.83	-5.25	-2.22	0.00	0.00	0.00	2.17	-.37	-.09		
29	-2.19	5.20	1.18	-3.14	-.48	-2.48	0.00	0.00	.35	1.94	-.14	-.19		
30	-2.96	5.50	-.99	3.28	-1.23	-4.59	0.00	0.00	-.09	1.95	-.15	-.18		
31	-3.80	1.24	-.30	.74	-.44	1.01	0.00	0.00	0.00	1.55	.11	-.02		
32	-1.34	2.28	-1.64	-1.20	-.10	.81	0.00	0.00	0.00	1.19	.03	.03		
33	8.81	.75	-1.31	-5.00	-2.04	-1.29	0.00	0.00	0.00	.82	-.35	-.08		
34-A	3.04	2.36	1.67	.06	-5.73	-.75	0.00	-.16	-.27	-.24	-.25	-.17		
34-B	0.00	0.00	5.35	-1.54	-2.30	-.11	0.00	0.00	0.00	-1.43	-.32	-.14		
35	16.35	-.42	1.46	-5.90	-7.28	-5.17	0.00	0.00	0.00	.77	-.70	-.32		
						ACTIVITY								
36	8.16	1.78	.94	-1.16	-5.70	-5.14	0.00	0.00	0.00	1.12	-.47	-.25		
37	5.87	3.37	.83	-1.54	-4.85	-4.70	0.00	0.00	0.00	1.02	-.41	-.04		
38	8.40	-.81	2.00	-1.75	-6.82	-1.66	0.00	0.00	0.00	.67	-.38	-.23		
39	12.47	.81	-.12	-2.14	-6.10	-5.50	0.00	0.00	-.54	1.12	-.58	-.19		
40	0.00	6.33	-7.90	0.00	0.00	0.00	0.00	0.00	0.00	1.57	Z =	1.48	BINOMIAL	
						INDIVIDUAL								
41	0.00	-2.86	2.75	0.00	0.00	0.00	0.00	0.00	.14	-.04	Z =	3.44	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.15	-.12		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.33	-.88		
44	0.00	-7.88	6.03	3.74	0.00	0.00	0.00	0.00	-1.13	-.77	.12	-.02		
45	0.00	6.88	-5.69	0.00	0.00	0.00	0.00	0.00	-1.48	.20	Z =	14.62	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.04	-.25		
51	-2.25	-7.08	-.02	-8.07	-1.21	-3.47	-1.37	-2.32	9.18	16.62	1.41	-.52		
52	0.00	-20.85	-5.98	1.43	4.45	5.30	2.88	5.20	-.77	8.27	1.16	.51		

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 11 - CATEGORY 1 (ALL SITES)

NUMBER OF RESPONDENTS = 1254

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	61.40	38.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.39	.49	1254	
3	0.00	1.45	10.22	11.10	0.37	5.87	6.19	5.15	4.34	47.30	6.52	2.76	1243	
4	0.00	39.39	42.34	14.99	1.83	.86	0.00	0.00	.24	.32	1.82	.82	1247	
5	0.00	19.94	76.71	0.00	0.00	0.00	0.00	0.00	1.67	1.67	Z = -20.45		1212	BINOMIAL
6	0.00	10.13	72.17	0.00	0.00	0.00	0.00	0.00	9.57	8.13	Z = -24.22		1032	BINOMIAL
7	0.00	6.30	56.70	0.00	0.00	0.00	0.00	0.00	19.22	17.78	Z = -22.49		790	BINOMIAL
8	0.00	3.19	24.72	0.00	0.00	0.00	0.00	0.00	37.80	34.29	Z = -14.43		350	BINOMIAL
9	0.00	18.50	80.22	0.00	0.00	0.00	0.00	0.00	1.04	.24	Z = -22.00		1238	BINOMIAL
10	0.00	.08	17.86	0.00	0.00	0.00	0.00	0.00	.40	81.66	Z = -14.87		225	BINOMIAL
						NOISE								
11	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 35.41		1254	BINOMIAL
12-A	.32	0.00	7.02	47.53	35.89	8.45	0.00	0.00	.24	.56	3.45	.77	1244	
12-B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
13	0.00	69.85	29.98	0.08	0.00	0.00	0.00	0.00	0.00	.16	Z = 14.13		1252	BINOMIAL
14	0.00	10.37	44.41	27.93	10.11	5.85	0.00	0.00	.27	1.08	2.56	1.01	371	
15	0.00	32.71	12.77	14.89	15.16	26.74	0.00	0.00	2.13	1.60	2.78	1.97	362	
16	0.00	42.02	.80	3.19	47.34	1.86	0.00	0.00	2.66	2.13	2.65	1.49	358	
17	0.00	36.44	40.16	20.21	0.00	0.00	0.00	0.00	1.86	1.33	1.83	.75	364	
18	0.00	25.00	27.39	45.21	0.00	0.00	0.00	0.00	.53	1.86	2.21	.82	367	
						SOURCES								
19	56.65	14.89	11.97	6.12	6.65	1.86	0.00	0.00	1.86	.95	1.36	369		
20	38.30	31.12	14.89	7.45	3.72	2.66	0.00	0.00	0.00	1.86	1.14	1.27	369	
21	22.61	28.46	17.02	10.37	14.10	5.85	0.00	0.00	0.00	1.60	1.82	1.55	376	
22	31.38	38.03	14.10	8.76	5.85	.53	0.00	0.00	0.00	1.33	1.20	1.18	371	
23	33.51	34.31	13.56	5.85	5.85	4.52	0.00	0.00	.27	2.13	1.28	1.39	367	
24	63.03	17.55	6.65	3.46	4.26	2.93	0.00	0.00	0.00	2.13	.74	1.29	368	
25	46.28	33.24	7.18	7.45	2.13	.80	0.00	0.00	.27	2.66	.85	1.03	365	
26	17.55	22.34	20.74	17.02	13.03	3.19	0.00	0.00	.53	5.59	1.95	1.42	353	
27	35.64	22.07	7.18	5.59	6.36	3.46	0.00	0.00	.80	18.88	1.20	1.46	302	
28	17.55	30.32	13.30	12.23	6.65	1.86	0.00	0.00	0.00	18.09	1.58	1.32	306	
29	36.97	26.86	7.98	6.12	2.13	1.33	0.00	0.00	0.00	18.62	.94	1.16	306	
30	34.31	21.01	8.24	9.31	5.59	3.46	0.00	0.00	.27	17.82	1.28	1.48	308	
31	13.56	18.09	13.83	14.63	14.63	7.45	0.00	0.00	0.00	17.82	2.26	1.59	309	
32	50.00	18.88	5.85	4.26	1.86	1.60	0.00	0.00	0.00	17.55	.71	1.15	310	
33	46.28	18.62	9.04	5.85	2.13	.53	0.00	0.00	0.00	17.55	.79	1.12	310	
34-A	63.03	6.12	3.99	4.52	4.52	2.39	0.00	3.46	0.00	11.97	.93	1.81	331	
34-B	0.00	0.00	18.09	1.60	1.56	.27	0.00	0.00	0.00	78.19	2.28	.87	82	
						ACTIVITY								
35	74.73	3.19	6.65	5.85	3.99	3.46	0.00	0.00	0.00	2.13	.69	1.38	368	
36	66.76	4.52	6.78	5.85	7.71	3.99	0.00	0.00	0.00	2.39	.93	1.54	367	
37	51.06	5.05	7.98	7.45	14.89	10.64	0.00	0.00	0.00	2.93	1.61	1.92	365	
38	74.20	3.99	7.98	3.19	5.85	2.13	0.00	0.00	0.00	2.66	.65	1.32	366	
39	65.16	3.19	8.78	7.45	8.78	4.52	0.00	0.00	0.00	2.13	1.03	1.61	368	
						INDIVIDUAL								
40	0.00	81.12	17.02	0.00	0.00	0.00	0.00	0.00	0.00	1.86	Z = 6.47		366	BINOMIAL
41	0.00	70.26	29.35	0.00	0.00	0.00	0.00	0.00	.08	.32	Z = 14.52		1249	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.04	5.24	1229	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.12	11.37	1200	
44	0.00	32.30	40.91	24.68	0.00	0.00	0.00	0.00	1.52	.40	1.92	.76	1233	
45	0.00	97.21	2.07	0.00	0.00	0.00	0.00	0.00	.40	.32	Z = 33.61		1245	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.93	1.40	1230		
51	2.39	7.33	.27	5.74	3.80	8.37	8.30	13.25	18.02	32.51	6.62	2.62	1132	
52	0.00	13.64	15.87	18.74	11.00	6.78	3.67	4.31	6.78	19.22	3.13	1.68	928	

BOLT BERANEK AND NEWMAN INC. — QUESTION 11 = CATEGORY 2 (ALL SITES) — EPA 24 SITE SURVEY

NUMBER OF RESPONDENTS = 639

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	63.54	36.31	.16	0.00	0.00	0.00	0.00	0.00	0.00	1.37	.49	639	
3	0.00	2.38	15.65	10.62	9.03	6.50	6.50	4.75	4.28	40.10	6.02	2.89	631	
4	0.00	15.02	32.66	35.68	11.58	4.23	0.00	0.00	.47	.16	2.57	1.02	635	
5	0.00	3.60	85.45	0.00	0.00	0.00	0.00	0.00	2.97	7.98	Z =	-9.81	589	BINOMIAL
6	0.00	2.97	67.61	0.00	0.00	0.00	0.00	0.00	12.05	17.37	Z =	-8.70	451	BINOMIAL
7	0.00	24.10	61.50	0.00	0.00	0.00	0.00	0.00	6.73	7.67	Z =	-4.57	547	BINOMIAL
8	0.00	11.42	45.85	0.00	0.00	0.00	0.00	0.00	19.56	23.16	Z =	-5.14	366	BINOMIAL
9	0.00	30.99	65.88	0.00	0.00	0.00	0.00	0.00	2.97	.16	Z =	-4.01	619	BINOMIAL
10	0.00	3.44	26.60	0.00	0.00	0.00	0.00	0.00	.47	69.48	Z =	-4.78	192	BINOMIAL
						NOISE								
11	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-11.30	639	BINOMIAL
12-A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
12-B	.16	0.00	12.63	44.76	32.39	9.70	0.00	0.00	.16	0.00	3.39	.84	636	
13	0.00	20.66	79.19	0.00	0.00	0.00	0.00	0.00	0.00	.16	Z =	-6.62	636	BINOMIAL
14	0.00	1.98	16.01	38.54	30.24	12.69	0.00	0.00	.20	.20	3.36	.96	504	
15	0.00	14.03	11.07	15.81	24.90	32.02	0.00	0.00	1.78	.40	3.51	1.41	495	
16	0.00	34.39	.79	4.35	57.31	.59	0.00	0.00	2.37	.20	2.89	1.42	493	
17	0.00	27.47	41.11	28.66	0.00	0.00	0.00	0.00	2.17	.59	2.01	.76	492	
18	0.00	18.58	20.36	60.47	0.00	0.00	0.00	0.00	.20	.40	2.42	.79	503	
						SOURCES								
19	52.77	9.49	10.67	10.28	10.67	5.34	0.00	0.00	0.00	.59	1.33	1.67	503	
20	22.73	22.53	16.80	14.62	16.01	6.92	0.00	0.00	0.00	.40	1.99	1.60	504	
21	25.49	16.60	15.61	11.26	20.16	10.28	0.00	0.00	0.00	.59	2.15	1.74	503	
22	34.98	30.83	14.03	10.47	6.32	2.57	0.00	0.00	0.00	.79	1.29	1.35	502	
23	48.22	27.47	8.70	4.35	6.52	3.16	0.00	0.00	.40	1.19	1.01	1.37	496	
24	58.50	14.23	7.71	5.34	9.29	3.95	0.00	0.00	0.00	.99	1.04	1.64	501	
25	63.64	22.33	6.13	2.57	3.36	.99	0.00	0.00	0.00	.99	.61	1.06	501	
26	11.07	9.49	15.42	19.76	28.26	13.84	0.00	0.00	.20	2.77	2.86	1.54	491	
27	43.28	11.07	7.11	9.29	14.43	5.34	0.00	0.00	.59	8.89	1.52	1.75	458	
28	12.05	20.55	16.21	19.57	17.39	5.34	0.00	0.00	0.00	8.89	2.28	1.48	461	
29	35.57	19.76	10.67	12.66	7.91	4.15	0.00	0.00	.40	9.29	1.44	1.54	457	
30	29.05	15.22	8.10	12.65	15.22	9.68	0.00	0.00	.20	9.88	1.99	1.80	455	
31	21.34	12.65	12.45	12.45	20.75	11.46	0.00	0.00	0.00	8.89	2.36	1.77	461	
32	48.02	18.97	5.34	7.31	6.13	4.55	0.00	0.00	0.00	9.68	1.09	1.52	457	
33	28.66	14.23	10.87	18.58	11.86	5.73	0.00	0.00	0.00	10.08	1.87	1.65	455	
34-A	59.88	2.57	4.74	5.14	8.10	8.30	0.00	2.77	.20	8.30	1.32	2.04	463	
34-B	0.00	0.00	16.60	1.38	5.34	1.19	0.00	0.00	0.00	75.49	2.64	.98	124	
						ACTIVITY								
35	49.81	2.96	9.49	12.06	18.58	6.52	0.00	0.00	0.00	.59	1.66	1.84	503	
36	52.17	2.77	9.29	8.89	15.61	10.47	0.00	0.00	0.00	.79	1.64	1.92	502	
37	31.23	2.17	10.08	9.68	26.68	19.37	0.00	0.00	0.00	.79	2.57	1.97	502	
38	56.13	4.55	9.09	8.89	15.61	5.14	0.00	0.00	0.00	.59	1.38	1.76	503	
39	42.89	2.77	8.89	14.82	19.17	10.28	0.00	0.00	.40	.79	1.95	1.90	500	
						INDIVIDUAL								
40	0.00	78.06	21.74	0.00	0.00	0.00	0.00	0.00	0.00	.20	Z =	2.52	505	BINOMIAL
41	0.00	69.64	29.89	0.00	0.00	0.00	0.00	0.00	.16	.31	Z =	4.50	636	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.02	5.13	626	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.16	11.16	613	
44	0.00	33.49	38.97	24.73	0.00	0.00	0.00	0.00	1.88	.94	1.91	.77	621	
45	0.00	86.07	12.52	0.00	0.00	0.00	0.00	0.00	1.41	0.00	Z =	8.37	630	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.95	1.52	617	
51	1.91	11.65	0.00	8.35	3.13	8.87	9.39	12.70	13.39	30.61	6.34	3.31	575	
52	0.00	23.79	17.84	18.94	10.02	4.38	1.72	3.29	4.38	15.65	2.65	1.58	511	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 11 (CATEGORY 1 - CATEGORY 2) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-2.13	2.29	-.16	0.00	0.00	0.00	0.00	0.00	0.00	.02	.00		
3	0.00	-.93	-5.63	.46	-.47	-.62	-.30	.39	.07	7.21	.58	-.13		
4	0.00	24.37	9.48	-20.69	-9.75	-3.39	0.00	0.00	-.23	.16	-.75	-.20		
5	0.00	16.34	-6.73	0.00	0.00	0.00	0.00	0.00	-1.30	-.31	Z =	-10.65		BINOMIAL
6	0.00	7.15	4.56	0.00	0.00	0.00	0.00	0.00	-2.48	-9.24	Z =	-15.52		BINOMIAL
7	0.00	-17.80	-4.80	0.00	0.00	0.00	0.00	0.00	12.49	13.11	Z =	-17.92		BINOMIAL
8	0.00	-8.23	-21.13	0.00	0.00	0.00	0.00	0.00	18.24	11.13	Z =	-9.29		BINOMIAL
9	0.00	-12.49	14.34	0.00	0.00	0.00	0.00	0.00	-1.94	.08	Z =	-17.99		BINOMIAL
10	0.00	-3.35	-8.74	0.00	0.00	0.00	0.00	0.00	-.07	12.16	Z =	-10.09		BINOMIAL
						NOISE								
11	0.00	100.00	-00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	46.72		BINOMIAL
12-A	.32	0.00	7.02	47.53	35.89	8.45	0.00	0.00	.24	.56	3.45	.77		
12-B	-.16	0.00	-12.83	-44.76	-32.39	-9.70	0.00	0.00	-.16	0.00	-3.39	-.84		
13	0.00	49.20	-49.20	0.00	0.00	0.00	0.00	0.00	0.00	.00	Z =	20.79		BINOMIAL
14	0.00	8.40	28.41	-10.61	-26.13	-6.99	0.00	0.00	.07	.87	-.80	.04		
15	0.00	18.68	1.70	-.92	-9.74	-11.27	0.00	0.00	.35	1.20	-.73	.16		
16	0.00	7.63	.01	-1.16	-9.97	1.27	0.00	0.00	.29	1.93	-.24	.07		
17	0.00	8.97	-.95	-8.44	0.00	0.00	0.00	0.00	-.31	.74	-.18	-.01		
18	0.00	6.42	7.04	-15.26	0.00	0.00	0.00	0.00	.33	1.47	-.21	.04		
						SOURCES								
19	3.88	5.41	1.30	-4.16	-4.22	-3.47	0.00	0.00	0.00	1.27	-.38	-.31		
20	15.57	8.59	-1.90	-7.18	-12.26	-4.26	0.00	0.00	0.00	1.47	-.86	-.33		
21	-2.89	11.86	1.41	-.89	-6.06	-4.43	0.00	0.00	0.00	1.00	-.33	-.19		
22	-3.60	7.20	.06	-1.78	-.47	-2.64	0.00	0.00	0.00	.54	-.09	-.17		
23	-14.71	6.84	4.87	1.58	-.67	1.58	0.00	0.00	-.13	.94	.27	.02		
24	4.53	3.32	-1.06	-1.88	-5.03	-1.03	0.00	0.00	0.00	1.14	-.29	-.25		
25	-17.36	10.51	1.05	4.88	-1.23	-.19	0.00	0.00	.27	1.67	.24	.02		
26	6.49	12.85	5.33	-2.74	-15.23	-9.85	0.00	0.00	.33	2.62	-.91	-.12		
27	-7.64	11.01	.07	-3.78	-8.64	-1.88	0.00	0.00	.20	9.99	-.32	-.28		
28	5.50	9.77	-2.91	-7.32	-10.74	-3.47	0.00	0.00	0.00	9.19	-.70	-.16		
29	1.39	7.10	-2.89	-5.94	-5.78	-2.02	0.00	0.00	-.40	9.33	-.58	-.30		
30	5.26	5.79	.14	-3.34	-9.63	-6.23	0.00	0.00	.07	7.94	-.70	-.33		
31	-7.78	5.44	1.38	2.18	-9.12	-4.02	0.00	0.00	0.00	8.93	-.11	-.18		
32	1.98	-.09	.52	-3.06	-4.26	-2.95	0.00	0.00	0.00	7.87	-.38	-.34		
33	17.62	4.39	-1.63	-12.73	-9.73	-5.20	0.00	0.00	0.00	7.47	-1.07	-.53		
34-A	3.15	3.55	-.75	-.62	-3.58	-5.91	0.00	.69	-.20	3.67	-.39	-.23		
34-B	0.00	0.00	1.48	.21	-3.47	-.92	0.00	0.00	0.00	2.70	-.36	-.51		
						ACTIVITY								
35	24.93	.23	-2.84	-6.20	-14.59	-3.06	0.00	0.00	0.00	1.33	-.97	-.46		
36	14.58	1.75	-.51	-3.04	-7.90	-6.48	0.00	0.00	0.00	1.60	-.72	-.38		
37	19.84	2.68	-2.10	-2.24	-11.79	-8.73	0.00	0.00	0.00	2.14	-.96	-.05		
38	18.08	-.56	-1.11	-5.70	-9.76	-3.01	0.00	0.00	0.00	2.07	-.73	-.44		
39	22.27	.42	-.12	-7.38	-10.39	-5.76	0.00	0.00	-.40	1.34	-.92	-.29		
						INDIVIDUAL								
40	0.00	3.05	-4.72	0.00	0.00	0.00	0.00	0.00	0.00	1.66	Z =	3.95		BINOMIAL
41	0.00	.62	-.54	0.00	0.00	0.00	0.00	0.00	-.08	.01	Z =	10.01		BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.11		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	.19		
44	0.00	-1.19	1.54	.15	0.00	0.00	0.00	0.00	-.36	-.54	.61	-.01		
45	0.00	11.14	-10.45	0.00	0.00	0.00	0.00	0.00	-1.01	.32	Z =	25.44		BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.02	-.12		
51	.47	-4.32	.27	-2.61	.67	-.48	-1.09	.56	4.63	1.90	.27	-.69		
52	0.00	-10.15	-1.97	-.20	.99	2.40	1.95	1.02	2.40	3.67	.48	.11		

BOLT BERANEK AND NEWMAN INC. CPA 24 SITE SURVEY

QUESTION 13 - CATEGORY 1 (ALL SITES)

NUMBER OF RESPONDENTS = 1046

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.50	37.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	.48	1086	
3	0.00	1.12	9.60	10.90	8.20	5.31	7.18	4.47	4.19	49.02	6.62	2.72	1073	
4	0.00	35.91	41.16	18.05	2.85	1.10	0.00	0.00	.64	.29	1.91	.67	1076	
5	0.00	14.60	77.16	0.00	0.00	0.00	0.00	0.00	2.12	2.12	Z =	-19.72	1340	BINOMIAL
6	0.00	9.02	69.71	0.00	0.00	0.00	0.00	0.00	10.87	10.41	Z =	-22.54	855	BINOMIAL
7	0.00	5.89	52.30	0.00	0.00	0.00	0.00	0.00	20.07	21.73	Z =	-20.05	632	BINOMIAL
8	0.00	2.30	21.09	0.00	0.00	0.00	0.00	0.00	37.94	38.67	Z =	-12.80	254	BINOMIAL
9	0.00	18.32	79.43	0.00	0.00	0.00	0.00	0.00	1.47	.37	Z =	-20.46	1066	BINOMIAL
10	0.00	.28	17.40	0.00	0.00	0.00	0.00	0.00	.46	81.86	Z =	-13.42	192	BINOMIAL
						NOISE								
11	0.00	80.65	12.15	7.09	0.00	0.00	0.00	0.00	.09	0.00	Z =	23.43	1035	BINOMIAL
12-A	.46	0.00	4.79	43.95	39.50	10.39	0.00	0.00	.23	.68	3.55	.73	868	
12-B	0.00	0.00	30.33	56.06	11.36	1.52	0.00	0.00	.76	0.00	2.84	.67	131	
13	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	32.45	1086	BINOMIAL
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
						SOURCES								
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
34-A	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
34-B	0.00	0.00	.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
						ACTIVITY								
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	
						INDIVIDUAL								
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	0.00	0	BINOMIAL
41	0.00	70.35	29.10	0.00	0.00	0.00	0.00	0.00	.18	.37	Z =	13.63	1080	BINOMIAL
42											17.12	5.31	1059	
43											37.31	11.50	1029	
44	0.00	34.44	41.44	21.92	0.00	0.00	0.00	0.00	1.66	.55	1.87	.79	1062	
45	0.00	98.80	.83	0.00	0.00	0.00	0.00	0.00	0.00	.37	Z =	32.35	1082	BINOMIAL
46											.93	1.44	1064	
51	2.71	10.44	.21	7.10	3.34	10.13	8.14	14.51	16.03	27.35	6.21	2.77	958	
52	0.00	16.76	16.49	17.50	9.58	6.26	2.85	3.59	6.91	20.07	2.43	1.66	793	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 11 - CATEGORY 2 (ALL SITES)

NUMBER OF RESPONDENTS = 945

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.05	37.94	.11	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	946	
3	0.00	2.44	14.68	11.16	8.82	6.91	5.84	5.31	4.14	40.49	6.05	2.84	941	
4	0.00	23.68	36.89	28.01	7.72	1.38	0.00	0.00	.11	.21	2.30	1.02	943	
5	0.00	8.56	83.19	0.00	0.00	0.00	0.00	0.00	2.43	5.41	Z = -23.96		864	BINOMIAL
6	0.00	5.60	71.04	0.00	0.00	0.00	0.00	0.00	10.04	13.32	Z = -22.99		725	BINOMIAL
7	0.00	19.34	65.75	0.00	0.00	0.00	0.00	0.00	8.67	6.24	Z = -15.47		805	BINOMIAL
8	0.00	9.94	44.19	0.00	0.00	0.00	0.00	0.00	23.78	22.09	Z = -14.32		512	BINOMIAL
9	0.00	29.19	68.71	0.00	0.00	0.00	0.00	0.00	2.11	0.00	Z = -12.29		926	BINOMIAL
10	0.00	2.22	28.32	0.00	0.00	0.00	0.00	0.00	.32	71.14	Z = -13.88		270	BINOMIAL
						NOISE								
11	0.00	39.75	53.49	6.55	0.00	0.00	0.00	0.00	.11	.11	Z = -4.34		944	BINOMIAL
12-A	0.00	0.00	11.97	55.85	27.66	3.99	0.00	0.00	.27	.27	3.24	.71	374	
12-B	.20	0.00	8.30	41.70	37.94	11.86	0.00	0.00	0.00	0.00	3.53	.82	506	
13	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = -30.75		946	BINOMIAL
14	0.00	5.60	28.96	34.14	21.04	9.51	0.00	0.00	.21	.53	3.00	1.05	939	
15	0.00	22.20	11.42	15.22	21.56	26.74	0.00	0.00	1.90	.95	3.20	1.52	919	
16	0.00	17.10	.45	3.70	53.59	1.06	0.00	0.00	2.64	1.06	2.80	1.45	911	
17	0.00	31.29	40.70	24.84	0.00	0.00	0.00	0.00	2.22	.45	1.93	.76	916	
18	0.00	21.04	23.26	54.23	0.00	0.00	0.00	0.00	.42	1.06	2.34	.81	932	
						SOURCES								
19	53.41	12.16	11.31	8.46	9.09	4.02	0.00	0.00	0.00	1.16	1.18	1.56	935	
20	29.28	26.43	16.07	11.52	10.68	4.97	0.00	0.00	0.00	1.05	1.62	1.52	936	
21	24.74	21.14	16.17	11.10	17.44	6.35	0.00	0.00	0.00	1.06	2.00	1.67	936	
22	33.30	34.04	14.27	9.41	6.13	1.69	0.00	0.00	.11	1.06	1.25	1.29	935	
23	41.12	30.87	11.42	4.97	6.24	3.49	0.00	0.00	.32	.53	1.13	1.36	928	
24	60.15	15.96	7.40	4.65	6.98	3.28	0.00	0.00	0.00	1.53	.90	1.43	931	
25	56.24	26.64	6.77	4.55	3.07	.85	0.00	0.00	.11	1.40	.72	1.05	928	
26	14.16	15.12	17.97	18.71	21.35	8.46	0.00	0.00	.12	3.91	2.45	1.58	906	
27	40.59	15.54	6.98	7.61	10.68	4.55	0.00	0.00	.63	13.42	1.37	1.65	813	
28	14.27	25.55	15.01	15.64	12.37	4.02	0.00	0.00	0.00	13.11	1.99	1.45	822	
29	35.94	23.26	9.43	9.09	5.07	3.07	0.00	0.00	.21	13.53	1.23	1.41	816	
30	31.18	18.09	8.25	11.10	10.78	6.87	0.00	0.00	.21	13.53	1.69	1.73	816	
31	18.84	14.69	12.68	13.32	18.58	9.73	0.00	0.00	0.00	13.00	2.33	1.76	823	
32	48.52	19.34	5.71	5.71	4.23	3.17	0.00	0.00	0.00	13.32	.93	1.34	820	
33	35.41	16.81	10.47	12.79	7.61	3.28	0.00	0.00	0.00	13.64	1.42	1.53	817	
34-A	61.63	4.12	4.23	4.86	6.45	5.71	0.00	2.85	.11	10.04	1.13	1.93	850	
34-B	0.00	0.00	16.91	1.48	3.70	.74	0.00	0.00	0.00	77.17	2.49	.85	216	
						ACTIVITY								
35	60.57	2.36	8.25	9.83	11.95	5.18	0.00	0.00	0.00	1.27	1.24	1.72	934	
36	58.56	3.49	8.68	7.61	12.37	7.61	0.00	0.00	0.00	1.44	1.34	1.83	932	
37	39.75	1.38	9.62	8.99	21.46	15.13	0.00	0.00	0.00	1.69	2.15	1.99	930	
38	63.53	4.33	8.99	6.45	11.42	3.61	0.00	0.00	0.00	1.48	1.06	1.61	932	
39	52.33	3.17	8.77	11.84	14.27	7.93	0.00	0.00	.21	1.48	1.56	1.84	930	
						INDIVIDUAL								
40	0.00	79.70	19.34	0.00	0.00	0.00	0.00	0.00	0.00	.95	Z = 6.06		937	BINOMIAL
41	0.00	69.24	30.55	0.00	0.00	0.00	0.00	0.00	0.00	.21	Z = 11.91		944	BINOMIAL
42											17.03	5.06	933	
43											36.26	11.03	916	
44	0.00	32.56	38.16	27.06	0.00	0.00	0.00	0.00	1.59	.63	1.94	.78	925	
45	0.00	87.53	10.89	0.00	0.00	0.00	0.00	0.00	1.59	0.00	Z = 23.76		931	BINOMIAL
46											.98	1.49	915	
51	1.49	8.26	.11	6.29	3.78	7.67	8.58	12.36	16.25	35.24	6.74	2.97	874	
52	0.00	19.03	16.60	20.30	11.84	5.29	2.75	4.33	5.14	14.69	2.92	1.65	758	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 13 (CATEGORY 1 - CATEGORY 2) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES
						NEIGHBORHOOD							
2	0.00	.75	-.64	-.11	0.00	0.00	0.00	0.00	0.00	0.00	-.01	-.00	
3	0.00	-1.33	-9.28	-.25	-.62	-1.60	1.33	-.84	.05	8.53	.56	-.15	
4	0.00	12.23	4.27	-9.96	-4.66	-2.28	0.00	0.00	.54	.06	-.39	-.15	
5	0.00	10.04	-6.03	0.00	0.00	0.00	0.00	0.00	-.31	-3.70	Z =	4.24	BINOMIAL
6	0.00	3.42	-1.33	0.00	0.00	0.00	0.00	0.00	.82	-2.91	Z =	.45	BINOMIAL
7	0.00	-13.45	-13.45	0.00	0.00	0.00	0.00	0.00	11.41	15.49	Z =	-4.58	BINOMIAL
8	0.00	-7.63	-23.10	0.00	0.00	0.00	0.00	0.00	14.15	16.98	Z =	1.52	BINOMIAL
9	0.00	-10.85	11.12	0.00	0.00	0.00	0.00	0.00	-.64	.37	Z =	-8.17	BINOMIAL
10	0.00	-1.94	-8.92	0.00	0.00	0.00	0.00	0.00	.14	19.72	Z =	.45	BINOMIAL
						NOISE							
11	0.00	40.92	-41.33	.54	0.00	0.00	0.00	0.00	-.01	-.11	Z =	27.81	BINOMIAL
12-A	.46	0.00	-7.17	-11.90	11.84	6.40	0.00	0.00	-.04	.42	.31	.07	
12-B	-.20	0.00	22.00	14.36	-26.58	-10.34	0.00	0.00	.76	0.00	-.69	-.15	
13	0.00	100.00	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	63.71	BINOMIAL
14	0.00	-5.60	-28.96	-34.14	-21.04	-9.51	0.00	0.00	-.21	-.53	-3.00	-1.05	
15	0.00	-22.20	-11.42	-15.22	-21.56	-26.74	0.00	0.00	-1.90	-.95	-3.20	-1.52	
16	0.00	-37.10	-.85	-3.70	-53.59	-1.06	0.00	0.00	-2.64	-1.06	-2.80	-1.45	
17	0.00	-31.29	-40.70	-24.64	0.00	0.00	0.00	0.00	-2.22	-.95	-1.93	-.76	
18	0.00	-21.04	-23.26	-54.23	0.00	0.00	0.00	0.00	-.42	-1.06	-2.34	-.81	
						SOURCES							
19	-53.81	-12.16	-11.31	-8.46	-9.09	-4.02	0.00	0.00	0.00	-1.16	-1.18	-1.56	
20	-29.28	-26.43	-16.07	-11.52	-10.64	-4.97	0.00	0.00	0.00	-1.06	-1.62	-1.52	
21	-24.74	-21.14	-16.17	-11.10	-17.44	-8.35	0.00	0.00	0.00	-1.06	-2.00	-1.67	
22	-33.10	-34.04	-14.27	-9.41	-6.13	-1.69	0.00	0.00	-.11	-1.06	-1.25	-1.23	
23	-41.12	-30.87	-11.42	-4.97	-6.24	-3.49	0.00	0.00	-.32	-1.59	-1.13	-1.36	
24	-60.19	-15.96	-7.43	-4.65	-6.98	-3.28	0.00	0.00	0.00	-1.59	-.96	-1.43	
25	-56.24	-26.64	-6.77	-4.55	-3.07	-.85	0.00	0.00	-.11	-1.83	-.72	-1.04	
26	-14.16	-15.12	-17.97	-18.71	-21.35	-8.46	0.00	0.00	-.32	-1.91	-2.46	-1.58	
27	-40.59	-15.54	-6.35	-7.61	-10.68	-4.55	0.00	0.00	-.63	-13.42	-1.37	-1.25	
28	-14.27	-25.58	-15.01	-15.64	-12.37	-4.02	0.00	0.00	0.00	-13.11	-1.98	-1.45	
29	-35.94	-23.26	-9.83	-9.09	-5.07	-3.07	0.00	0.00	-.21	-13.53	-1.23	-1.41	
30	-31.19	-19.08	-8.25	-11.10	-10.76	-6.87	0.00	0.00	-.21	-13.53	-1.69	-1.70	
31	-18.05	-14.69	-12.68	-13.32	-18.50	-9.73	0.00	0.00	0.00	-13.00	-2.33	-1.73	
32	-48.52	-19.34	-5.71	-5.71	-4.23	-3.17	0.00	0.00	0.00	-13.32	-.91	-1.36	
33	-15.41	-16.81	-10.47	-12.79	-7.61	-3.28	0.00	0.00	0.00	-13.64	-1.42	-1.53	
34-A	-61.63	-4.12	-4.23	-4.86	-6.45	-5.71	0.00	-2.55	-.11	-10.04	-1.13	-1.93	
34-B	0.00	0.00	-16.91	-1.48	-3.70	-.74	0.00	0.00	0.00	-77.17	-2.49	-.88	
						ACTIVITY							
35	-60.57	-2.95	-8.25	-9.83	-11.95	-5.18	0.00	0.00	0.00	-1.27	-1.24	-1.72	
36	-58.56	-3.49	-8.58	-7.61	-12.37	-7.61	0.00	0.00	0.00	-1.48	-1.34	-1.80	
37	-39.75	-3.36	-9.62	-8.99	-21.46	-15.12	0.00	0.00	0.00	-1.69	-2.15	-1.99	
38	-63.63	-4.33	-8.99	-6.45	-11.42	-3.81	0.00	0.00	0.00	-1.48	-1.08	-1.63	
39	-62.33	-3.17	-8.77	-11.84	-14.27	-7.93	0.00	0.00	-.21	-1.48	-1.56	-1.84	
						INDIVIDUAL							
40	0.00	-79.70	-19.34	0.00	0.00	0.00	0.00	0.00	0.00	-.95	Z =	-6.06	BINOMIAL
41	0.00	1.11	-1.45	0.00	0.00	0.00	0.00	0.00	.16	.16	Z =	1.72	BINOMIAL
42											.09	.26	
43											1.06	.47	
44	0.00	1.88	3.28	-5.15	0.00	0.00	0.00	0.00	.07	-.08	-.07	-.03	
45	0.00	11.26	-10.06	0.00	0.00	0.00	0.00	0.00	-1.59	.37	Z =	8.59	BINOMIAL
46											-.05	-.24	
51	1.23	2.20	.09	.81	-.44	2.46	-.44	2.15	-.17	-7.89	-.53	-.20	
52	0.00	-2.27	-.11	-2.80	-2.26	.98	.11	-.74	1.73	5.34	.02	.00	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 14 = CATEGORIES 4 AND 5 (ALL SITES)

NUMBER OF RESPONDENTS = 292

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	64.73	35.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	.48	292	
3	0.00	1.72	15.17	11.03	8.62	7.93	0.28	4.48	4.14	36.62	6.01	2.82	290	
4	0.00	16.78	30.48	31.85	13.70	7.19	0.00	0.00	0.00	0.00	2.64	1.13	292	
5	0.00	4.45	81.51	0.00	0.00	0.00	0.00	0.00	4.45	9.59	Z = -14.20		251	BINOMIAL
6	0.00	2.40	63.01	0.00	0.00	0.00	0.00	0.00	14.04	20.55	Z = -12.81		191	BINOMIAL
7	0.00	25.68	65.07	0.00	0.00	0.00	0.00	0.00	4.79	4.45	Z = -7.06		265	BINOMIAL
8	0.00	15.37	49.66	0.00	0.00	0.00	0.00	0.00	17.47	17.81	Z = -7.35		189	BINOMIAL
9	0.00	34.93	61.30	0.00	0.00	0.00	0.00	0.00	3.77	0.00	Z = -4.59		291	BINOMIAL
10	0.00	5.48	28.42	0.00	0.00	0.00	0.00	0.00	0.00	66.10	Z = -6.73		99	BINOMIAL
						NOISE								
11	0.00	20.89	75.34	3.77	0.00	0.00	0.00	0.00	0.00	0.00	Z = -9.49		292	BINOMIAL
12=A	0.00	0.00	16.39	52.46	22.95	6.56	0.00	0.00	1.64	0.00	3.20	.79	60	
12=B	0.00	0.00	4.09	21.82	50.91	23.18	0.00	0.00	0.00	0.00	3.93	.78	220	
13	0.00	.68	98.97	0.01	0.00	0.00	0.00	0.00	0.00	.34	Z = -16.82		291	BINOMIAL
14	0.00	0.00	0.00	0.00	68.36	31.14	0.00	0.00	0.00	0.00	4.31	.46	289	
15	0.00	17.38	14.88	12.80	21.30	30.80	0.00	0.00	2.08	.35	3.35	1.49	292	
16	0.00	35.64	1.38	5.54	52.25	1.38	0.00	0.00	3.81	0.00	2.82	1.44	278	
17	0.00	32.19	37.10	26.44	0.00	0.00	0.00	0.00	1.73	.35	1.94	.77	283	
18	0.00	20.07	20.07	59.52	0.00	0.00	0.00	0.00	.35	0.00	2.40	.80	286	
19	51.21	7.96	10.38	8.30	14.88	4.57	0.00	0.00	0.00	.69	1.47	1.77	287	
						SOURCES								
20	26.64	20.07	10.38	10.73	20.42	11.42	0.00	0.00	0.00	.35	2.13	1.79	288	
21	23.53	17.30	11.76	7.61	26.30	13.15	0.00	0.00	0.00	.35	2.35	1.82	288	
22	37.37	31.49	10.38	11.07	6.23	3.11	0.00	0.00	0.00	.35	1.26	1.38	286	
23	44.64	28.37	9.34	4.50	6.23	5.88	0.00	0.00	.35	.69	1.16	1.49	286	
24	54.67	15.57	6.23	4.84	11.07	6.92	0.00	0.00	0.00	.69	1.22	1.70	287	
25	63.32	21.45	5.54	2.77	5.19	.69	0.00	0.00	0.00	1.04	.66	1.13	289	
26	12.46	11.07	9.00	13.15	32.87	17.65	0.00	0.00	.35	3.46	3.00	1.67	278	
27	35.64	13.49	3.81	9.69	17.30	8.65	0.00	0.00	.69	10.73	1.84	1.87	256	
28	11.42	20.42	10.38	15.57	22.49	9.00	0.00	0.00	0.00	10.73	2.50	1.61	288	
29	34.60	19.38	7.96	11.07	8.30	7.27	0.00	0.00	0.00	11.42	1.56	1.68	286	
30	28.03	16.96	5.54	9.69	16.26	11.42	0.00	0.00	0.00	12.11	2.04	1.87	264	
31	17.30	13.84	9.69	9.00	23.18	15.92	0.00	0.00	0.00	11.07	2.61	1.82	257	
32	49.83	17.65	4.84	5.19	5.88	5.54	0.00	0.00	0.00	11.07	1.04	1.56	257	
33	31.83	15.22	6.57	12.80	15.22	6.57	0.00	0.00	0.00	11.76	1.82	1.76	255	
34=A	56.06	3.11	1.04	5.19	9.00	13.15	0.00	3.11	.35	9.00	1.59	2.23	262	
34=B	0.00	0.00	17.65	1.04	6.92	1.38	0.00	0.00	0.00	73.01	2.71	1.01	76	
35	46.71	2.42	6.92	11.76	22.49	9.34	0.00	0.00	0.00	.35	1.89	1.94	288	
						ACTIVITY								
36	50.17	3.81	7.27	5.54	19.72	13.15	0.00	0.00	0.00	.35	1.89	2.01	288	
37	22.84	2.42	6.57	7.96	31.83	27.68	0.00	0.00	0.00	.69	3.07	1.91	287	
38	49.13	4.50	6.92	9.34	21.11	8.65	0.00	0.00	0.00	.35	1.75	1.92	288	
39	37.72	3.46	4.15	13.49	24.91	14.28	0.00	0.00	.69	.69	2.29	2.00	285	
40	0.00	69.20	30.45	0.00	0.00	0.00	0.00	0.00	0.00	.35	Z = 3.98		288	BINOMIAL
						INDIVIDUAL								
41	0.00	70.21	29.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 6.91		292	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.19	5.13	290	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.66	11.12	282	
44	0.00	27.40	36.64	33.90	0.00	0.00	0.00	0.00	1.71	.34	2.07	.79	286	
45	0.00	75.00	23.29	0.00	0.00	0.00	0.00	0.00	1.71	0.00	Z = 8.91		287	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.87	1.41	231	
51	1.87	9.74	0.00	10.49	4.49	9.36	6.74	10.86	14.98	31.46	6.39	3.31	267	
52	0.00	20.89	18.49	17.47	11.64	1.71	2.40	4.49	5.82	17.12	2.74	1.64	225	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 14 - ALL CATEGORIES EXCEPT 4 AND 5 (ALL SITES)

NUMBER OF RESPONDENTS = 1745

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.18	37.77	.06	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	1745	
3	0.00	1.74	11.63	11.00	9.51	5.79	6.25	4.92	4.17	45.01	6.40	2.81	1728	
4	0.00	32.38	40.63	21.26	3.67	1.32	0.60	0.00	.46	.29	2.00	.90	1732	
5	0.00	15.53	79.66	0.60	0.00	0.00	0.00	0.00	1.89	2.92	Z = -27.46		1661	BINOMIAL
6	0.00	8.25	71.40	0.00	0.00	0.00	0.00	0.00	9.91	10.43	Z = -29.56		1390	BINOMIAL
7	0.00	9.91	57.48	0.00	0.00	0.00	0.00	0.00	16.39	16.22	Z = -24.20		1176	BINOMIAL
8	0.00	4.30	26.28	0.00	0.00	0.00	0.00	0.00	33.58	33.24	Z = -17.83		579	BINOMIAL
9	0.00	21.38	76.91	0.00	0.00	0.00	0.00	0.00	1.43	.29	Z = -23.40		1715	BINOMIAL
10	0.00	.46	20.34	0.00	0.00	0.00	0.00	0.00	.46	78.74	Z = -18.21		363	BINOMIAL
						NOISE								
11	0.00	68.37	24.01	7.39	0.00	0.00	0.00	0.00	.11	.11	Z = 19.28		1741	BINOMIAL
12-A	.34	0.00	6.54	47.28	36.55	8.55	0.00	0.00	.17	.59	3.46	.77	1184	
12-B	.24	0.00	17.42	56.80	22.67	2.63	0.00	0.00	.24	0.00	3.10	.72	418	
13	0.00	62.12	37.65	0.00	0.00	0.00	0.00	0.00	0.00	.23	Z = 10.23		1741	BINOMIAL
14	0.00	8.07	41.70	49.16	0.00	0.00	0.00	0.00	.30	.76	2.42	.64	659	
15	0.00	24.35	9.89	16.29	21.46	24.96	0.00	0.00	1.63	1.22	3.13	1.53	837	
16	0.00	37.75	.61	2.89	54.19	.91	0.00	0.00	2.13	1.52	2.79	1.46	633	
17	0.00	30.90	41.60	24.05	0.00	0.00	0.00	0.00	2.44	1.22	1.93	.75	633	
18	0.00	21.46	24.66	51.90	0.00	0.00	0.00	0.00	.46	1.52	2.31	.81	644	
19	54.95	14.00	11.72	8.52	6.54	2.89	0.00	0.00	0.00	1.37	1.05	1.44	648	
						SOURCES								
20	30.44	29.22	18.57	11.87	6.39	2.13	0.00	0.00	0.00	1.37	1.40	1.32	648	
21	25.27	22.83	18.11	12.63	13.55	6.24	0.00	0.00	0.00	1.37	1.65	1.57	648	
22	31.51	35.16	19.98	8.69	6.09	1.07	0.00	0.00	.15	1.37	1.25	1.23	647	
23	39.57	31.96	12.33	5.16	6.24	2.44	0.00	0.00	.30	1.98	1.17	1.30	642	
24	62.56	16.13	7.91	4.57	5.16	1.67	0.00	0.00	0.00	1.98	.74	1.26	644	
25	53.12	28.92	7.31	5.33	2.13	.91	0.00	0.00	.15	2.13	.74	1.06	642	
26	14.92	16.89	21.92	21.16	16.29	4.41	0.00	0.00	.30	4.11	2.21	1.44	628	
27	42.77	16.44	8.37	6.70	7.76	2.74	0.00	0.00	.61	11.61	1.16	1.50	557	
28	15.63	27.65	17.05	15.68	7.91	1.63	0.00	0.00	0.00	14.16	1.74	1.31	564	
29	36.53	24.96	10.65	8.22	3.65	1.22	0.00	0.00	.30	14.48	1.07	1.24	560	
30	32.57	18.57	9.44	11.72	8.37	4.87	0.00	0.00	.30	14.16	1.59	1.60	562	
31	18.42	15.27	14.00	15.22	14.64	7.00	0.00	0.00	0.00	13.85	2.20	1.63	566	
32	47.95	20.09	6.09	5.64	3.50	2.13	0.00	0.00	0.00	14.31	.87	1.29	563	
33	36.99	17.50	12.18	12.79	4.26	1.83	0.00	0.00	0.00	14.46	1.24	1.38	562	
34-A	64.08	4.57	5.63	4.72	5.33	2.44	0.00	2.74	0.00	10.50	.92	1.76	588	
34-B	0.00	0.00	16.59	1.67	2.28	.46	0.00	0.00	0.00	79.00	2.36	.76	138	
35	66.67	3.20	8.83	8.68	7.31	3.35	0.00	0.00	0.00	1.67	.78	1.53	646	
						ACTIVITY								
36	62.25	3.35	9.59	8.52	9.13	5.18	0.00	0.00	0.00	1.98	1.11	1.66	644	
37	47.18	3.81	10.96	9.44	16.89	9.59	0.00	0.00	0.00	2.13	1.73	1.89	643	
38	69.86	4.26	9.89	5.18	7.15	1.67	0.20	0.00	0.00	1.98	.78	1.38	644	
39	58.75	3.04	10.81	11.11	9.55	4.87	0.00	0.00	0.00	.83	1.23	1.67	645	
40	0.00	84.32	14.46	0.00	0.00	0.00	0.00	0.00	0.00	1.22	Z = 7.03		649	BINOMIAL
						INDIVIDUAL								
41	0.00	69.80	29.74	0.00	0.00	0.00	0.00	0.00	.11	.34	Z = 16.77		1737	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.07	9.21	1707	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.87	11.32	1665	
44	0.00	34.61	40.40	22.75	0.30	0.00	0.00	0.00	1.60	.63	1.86	.76	1706	
45	0.00	96.68	2.52	0.00	0.00	0.00	0.00	0.00	.57	.23	Z = 35.49		1731	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.97	1.47	1733	
51	2.17	9.44	.19	6.06	3.34	8.93	8.61	13.90	16.33	30.99	6.47	2.81	1568	
52	0.00	17.36	16.16	18.97	10.43	6.48	2.87	3.84	6.25	17.65	2.95	1.66	1328	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 14 (CATEGORIES 4 AND 5 = THE REST) FOR ALL SITES

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	2.65	-2.49	-.06	0.00	0.00	0.00	0.00	0.00	0.00	-.03	-.01		
3	0.00	-.01	3.54	.04	.11	2.14	2.03	-.44	-.03	-7.39	-.39	.02		
4	0.00	-15.00	-10.15	10.59	10.03	5.87	0.00	0.00	-.46	-.29	.64	.23		
5	0.00	-11.98	1.06	0.00	0.00	0.00	0.00	0.00	2.56	5.67	Z =	13.25		BINOMIAL
6	0.00	-5.85	-8.39	0.00	0.00	0.00	0.00	0.00	4.13	10.12	Z =	16.75		BINOMIAL
7	0.00	15.77	7.59	0.00	0.00	0.00	0.00	0.00	-11.60	-11.77	Z =	17.14		BINOMIAL
8	0.00	10.77	20.78	0.00	0.00	0.00	0.00	0.00	-16.12	-15.43	Z =	16.48		BINOMIAL
9	0.00	13.56	-15.60	0.00	0.00	0.00	0.00	0.00	2.33	-.29	Z =	18.81		BINOMIAL
10	0.00	5.02	8.08	0.00	0.00	0.00	0.00	0.00	-.46	-12.64	Z =	11.48		BINOMIAL
						NOISE								
11	0.00	-47.48	51.33	-3.63	0.00	0.00	0.00	0.00	-.11	-.11	Z =	-28.76		BINOMIAL
12-A	-.34	0.00	9.86	5.18	-13.60	-1.99	0.00	0.00	1.47	-.59	-.26	.02		
12-B	-.24	0.00	-13.33	-34.98	28.24	21.56	0.00	0.00	-.24	0.00	.89	.06		
13	0.00	-61.44	61.32	0.00	0.00	0.00	0.00	0.00	0.00	.11	Z =	-27.06		BINOMIAL
14	0.00	-8.97	-41.70	-49.16	68.86	31.14	0.00	0.00	-.30	-.76	1.96	-.17		
15	0.00	-7.05	4.99	-3.48	.34	5.63	0.00	0.00	.25	-.87	.22	-.04		
16	0.00	-2.11	.78	2.64	-1.94	.47	0.00	0.00	1.68	-1.52	.03	-.02		
17	0.00	1.28	-2.30	2.59	0.00	0.00	0.00	0.00	-.71	-.87	.01	.02		
18	0.00	-1.39	-4.59	7.61	0.00	0.00	0.00	0.00	-.11	-1.52	.05	-.01		
19	-3.74	-6.04	-1.34	-.22	8.33	3.68	0.00	0.00	0.00	-.68	.42	.33		
						SOURCES								
20	-3.80	-9.15	-8.19	-1.15	14.02	9.29	0.00	0.00	0.00	-1.02	.72	.47		
21	-1.74	-5.53	-6.35	-5.02	12.75	6.91	0.00	0.00	0.00	-1.02	.51	.25		
22	5.86	-3.67	-5.60	2.40	.14	2.05	0.00	0.00	-.15	-1.02	.02	.16		
23	5.06	-3.59	-2.59	-.60	-.01	3.45	0.00	0.00	.04	-1.29	.04	.16		
24	-7.89	-.56	-1.69	.28	5.90	5.25	0.00	0.00	0.00	-1.29	.44	.43		
25	10.20	-7.67	-1.77	-2.56	3.06	-.22	0.00	0.00	-.15	-1.09	-.09	.07		
26	-2.46	-5.82	-12.92	-8.01	16.59	13.23	0.00	0.00	.04	-.65	.78	.23		
27	-7.13	-2.94	-4.67	2.99	9.54	5.91	0.00	0.00	.08	-3.89	.68	.38		
28	-6.11	-7.44	-6.67	-.11	14.68	7.17	0.00	0.00	0.00	-3.43	.75	.29		
29	-1.93	-5.58	-2.70	2.84	4.65	4.65	0.00	0.00	-.30	-3.04	.44	.44		
30	-4.54	-1.61	-3.90	-2.63	7.89	6.55	0.00	0.00	-.30	-2.04	.61	.27		
31	-1.12	-1.23	-4.31	-6.22	6.75	8.92	0.00	0.00	0.00	-2.78	.42	.16		
32	1.88	-2.44	-1.24	-.75	2.33	3.41	0.00	0.00	0.00	-3.23	.19	.27		
33	-5.15	-2.28	-5.60	.02	10.96	4.75	0.00	0.00	0.00	-2.69	.58	.38		
34-A	-8.02	-1.45	-4.59	.47	3.67	10.71	0.00	.37	.35	-1.51	.67	.48		
34-B	0.00	0.00	1.06	-.64	4.64	.93	0.00	0.00	0.00	-5.99	.36	.25		
35	-19.95	-.77	-1.91	2.78	15.19	5.99	0.00	0.00	0.00	-1.33	.94	.41		
						ACTIVITY								
36	-12.08	.46	-2.32	-2.99	10.59	7.97	0.00	0.00	0.00	-1.63	.67	.35		
37	-24.35	-1.38	-4.38	-1.48	14.94	18.09	0.00	0.00	0.00	-1.44	1.34	.03		
38	-20.73	.24	-2.97	4.17	13.95	6.98	0.00	0.00	0.00	-1.63	.97	.56		
39	-21.04	.42	-6.65	2.38	15.32	10.01	0.00	0.00	.69	-1.13	1.07	.33		
40	0.00	-15.12	15.99	0.00	0.00	0.00	0.00	0.00	0.00	-.87	Z =	-3.15		BINOMIAL
						INDIVIDUAL								
41	0.00	.41	.09	0.00	0.00	0.00	0.00	0.00	-.11	-.34	Z =	-9.87		BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.12	-.09		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.21	-.20		
44	0.00	-7.22	-3.76	11.15	0.00	0.00	0.00	0.00	.11	-.29	.19	.33		
45	0.00	-21.68	20.77	0.00	0.00	0.00	0.00	0.00	1.14	-.23	Z =	-30.58		BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.10	-.06		
91	-.30	.30	-.19	-.43	1.11	.43	-1.67	3.04	-1.35	.47	-.08	.30		
92	0.00	3.53	2.33	-1.50	1.21	-4.76	-.47	.61	-.42	-.53	-.22	-.01		

BOLT BERANEK AND NEWMAN INC. — CPA 24 SITE SURVEY

QUESTION 36 = CATEGORIES 0: 1 AND 2 (ALL SITES)

NUMBER OF RESPONDENTS = 674

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	54.79	40.06	.15	0.00	0.00	0.00	0.00	0.00	0.00	1.40	.49	674	
3	0.00	2.39	11.30	11.21	7.42	7.17	4.93	5.83	4.04	43.20	6.22	2.86	669	
4	0.00	26.25	37.63	25.82	7.12	2.52	0.00	0.00	.15	.30	2.21	1.00	671	
5	0.00	9.35	83.23	0.00	0.00	0.00	0.00	0.00	2.52	5.19	Z = -20.05		622	BINOMIAL
6	0.00	6.35	70.33	0.00	0.00	0.00	0.00	0.00	9.79	13.50	Z = -18.96		517	BINOMIAL
7	0.00	18.69	63.66	0.00	0.00	0.00	0.00	0.00	3.64	8.01	Z = -12.86		555	BINOMIAL
8	0.00	8.46	43.21	0.00	0.00	0.00	0.00	0.00	25.37	25.96	Z = -11.62		328	BINOMIAL
9	0.00	26.41	72.40	0.00	0.00	0.00	0.00	0.00	1.19	0.00	Z = -12.61		685	BINOMIAL
10	0.00	1.19	24.48	0.00	0.00	0.00	0.00	0.00	.30	74.04	Z = -11.94		173	BINOMIAL
NOISE														
11	0.00	44.96	48.37	6.53	0.00	0.00	0.00	0.00	.15	0.00	Z = -.92		673	BINOMIAL
12-A	0.00	0.00	12.87	52.81	29.04	4.62	0.00	0.00	.33	.33	3.26	.76	301	
12-B	0.00	0.00	10.74	44.17	34.97	10.12	0.00	0.00	0.00	0.00	3.44	.81	326	
13	0.00	.15	94.55	0.00	0.00	0.00	0.00	0.00	0.00	.30	Z = -25.85		672	BINOMIAL
14	0.00	6.71	32.49	34.13	18.48	7.90	0.00	0.00	.30	0.00	2.68	1.04	659	
15	0.00	24.74	10.58	15.65	20.86	26.08	0.00	0.00	2.09	0.00	3.13	1.84	667	
16	0.00	39.94	.60	3.73	51.42	1.19	0.00	0.00	2.83	.30	2.72	1.47	650	
17	0.00	34.13	41.43	21.70	0.00	0.00	0.00	0.00	2.38	.30	1.87	.75	653	
18	0.00	22.65	23.99	52.46	0.00	0.00	0.00	0.00	.60	.30	2.38	.62	665	
19	58.87	12.37	12.22	7.45	6.56	2.09	0.00	0.00	0.00	.45	.96	1.39	668	
SOURCES														
20	34.13	26.97	16.10	10.13	7.45	5.07	0.00	0.00	0.00	.15	1.45	1.48	670	
21	26.68	22.65	16.84	9.84	16.24	7.45	0.00	0.00	0.00	.30	1.89	1.65	669	
22	36.81	35.17	13.41	7.61	5.07	1.14	0.00	0.00	.15	.60	1.12	1.20	666	
23	40.96	32.64	12.22	5.66	4.62	3.26	0.00	0.00	.15	.45	1.10	1.30	667	
24	62.59	14.39	7.36	4.17	6.11	2.68	0.00	0.00	0.00	.75	.89	1.35	666	
25	56.18	29.21	6.56	4.17	2.24	.45	0.00	0.00	.15	1.04	.67	.98	683	
26	16.69	18.93	20.42	18.93	15.50	6.26	0.00	0.00	.45	2.83	2.17	1.51	669	
27	40.83	16.18	7.15	7.30	7.75	3.13	0.00	0.00	.60	15.05	1.20	1.52	568	
28	16.10	28.46	15.50	13.86	8.64	2.66	0.00	0.00	0.00	14.75	1.75	1.37	572	
29	34.21	25.04	9.54	6.35	3.43	1.94	0.00	0.00	.30	15.20	1.16	1.29	567	
30	31.49	20.27	9.64	11.16	8.05	4.62	0.30	0.00	.30	15.05	1.49	1.58	568	
31	18.33	16.39	14.16	12.82	16.10	7.75	0.00	0.00	0.00	14.46	2.18	1.65	574	
32	50.07	19.67	5.22	5.07	3.28	1.94	0.00	0.00	0.00	14.75	.86	1.25	572	
33	37.26	18.48	10.13	11.18	5.81	1.79	0.00	0.00	0.00	15.35	1.27	1.41	568	
34-A	65.57	4.62	4.77	5.23	4.92	3.13	0.00	2.24	0.00	9.54	.69	1.71	607	
34-B	0.00	0.90	14.59	1.34	2.24	.30	0.00	0.00	0.00	79.73	2.33	.73	136	
35	67.06	3.43	8.04	8.64	8.64	3.28	0.00	0.00	0.00	.30	.98	1.55	669	
ACTIVITY														
36	82.56	4.92	12.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.30	.68	671	
37	48.58	4.17	11.33	7.90	16.99	10.28	0.00	0.00	0.00	.75	1.71	1.90	666	
38	72.88	4.32	8.49	4.92	7.45	1.49	0.00	0.00	0.00	.45	.74	1.36	668	
39	58.87	3.58	10.28	10.73	10.73	5.22	0.00	0.00	.30	.30	1.24	1.69	667	
40	0.00	82.12	17.44	0.00	0.00	0.00	0.00	0.00	0.00	.45	Z = 6.48		668	BINOMIAL
INDIVIDUAL														
41	0.00	69.73	29.97	0.00	0.00	0.00	0.00	0.00	0.00	.30	Z = 10.34		672	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.16	5.15	662	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.65	10.89	650	
44	0.00	34.72	39.02	23.89	0.00	0.00	0.00	0.00	1.63	.74	1.89	.77	658	
45	0.00	92.73	6.38	0.00	0.00	0.00	0.00	0.00	.89	0.00	Z = 22.52		668	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.94	1.44	654	
51	1.30	7.62	0.00	4.70	3.89	7.94	9.72	11.51	17.34	35.98	6.86	2.80	617	
52	0.00	16.17	16.77	21.96	11.13	5.19	3.12	4.15	5.64	15.88	2.98	1.63	529	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 36 - CATEGORIES 3, 4 AND 5 (ALL SITES)

NUMBER OF RESPONDENTS = 263

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	69.20	30.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	.46	263	
3	0.00	2.67	14.32	10.69	11.83	4.49	6.40	3.82	4.58	33.21	5.64	2.96	262	
4	0.00	15.21	34.98	34.60	9.89	5.32	0.00	0.00	0.00	0.00	2.55	1.03	263	
5	0.00	7.22	82.61	0.00	0.00	0.00	0.00	0.00	2.28	7.98	Z = -12.69		236	BINOMIAL
6	0.00	3.80	71.10	0.00	0.00	0.00	0.00	0.00	11.41	13.69	Z = -12.61		197	BINOMIAL
7	0.00	22.05	71.10	0.00	0.00	0.00	0.00	0.00	4.94	1.90	Z = -8.24		245	BINOMIAL
8	0.00	14.07	54.75	0.00	0.00	0.00	0.00	0.00	19.01	12.17	Z = -7.65		181	BINOMIAL
9	0.00	34.50	65.32	0.00	0.00	0.00	0.00	0.00	4.18	0.00	Z = -3.78		262	BINOMIAL
10	0.00	4.94	30.80	0.00	0.00	0.00	0.00	0.00	.38	63.88	Z = -7.01		94	BINOMIAL
NOISE														
11	0.00	25.10	68.06	6.84	0.00	0.00	0.00	0.00	0.00	0.00	Z = -7.22		263	BINOMIAL
12-A	0.00	0.00	10.61	69.70	18.18	1.52	0.00	0.00	0.00	0.00	3.11	.58	66	
12-B	.56	0.00	.91	36.47	43.58	15.08	0.00	0.00	0.00	0.00	3.69	.81	179	
13	0.00	.76	99.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = -15.97		263	BINOMIAL
14	0.00	2.38	28.31	34.87	28.55	14.18	0.00	0.00	0.00	0.00	3.32	1.02	261	
15	0.00	16.09	15.79	14.94	24.14	29.12	0.00	0.00	1.53	.38	3.37	1.45	258	
16	0.00	31.42	1.53	3.45	60.54	.77	0.00	0.00	2.30	0.00	2.98	1.40	255	
17	0.00	24.98	35.46	33.72	0.00	0.00	0.00	0.00	1.92	0.00	2.09	.77	246	
18	0.00	17.24	22.61	60.15	0.00	0.00	0.00	0.00	0.00	0.00	2.43	.77	261	
19	42.15	12.26	9.58	11.11	15.71	9.20	0.00	0.00	0.00	0.00	1.74	1.82	261	
SOURCES														
20	18.61	25.67	15.71	15.71	19.16	4.98	0.00	0.00	0.00	.77	2.67	1.54	259	
21	21.07	17.62	14.94	14.56	21.07	9.96	0.00	0.00	0.00	.77	2.27	1.64	259	
22	25.67	31.80	16.09	14.56	8.81	3.07	0.00	0.00	0.00	0.00	1.68	1.39	261	
23	43.30	26.44	9.96	5.49	10.34	4.21	0.00	0.00	.77	1.53	1.22	1.81	265	
24	56.32	14.94	7.28	6.13	9.58	4.98	0.00	0.00	0.00	.77	1.17	1.66	259	
25	58.62	20.69	7.66	5.36	5.36	1.92	0.00	0.00	0.00	.38	.83	1.28	260	
26	8.43	6.13	11.88	16.77	37.65	14.56	0.00	0.00	0.00	2.68	3.18	1.45	254	
27	41.00	9.20	6.51	8.81	18.77	8.43	0.00	0.00	.77	6.51	1.79	1.88	242	
28	9.96	19.54	14.18	19.92	22.61	7.66	0.00	0.00	0.00	6.13	2.52	1.51	245	
29	34.02	14.92	11.11	11.11	9.68	4.13	0.00	0.00	0.00	6.13	1.54	1.63	245	
30	30.65	12.64	7.66	11.11	18.35	13.03	0.00	0.00	0.00	6.51	2.14	1.69	244	
31	18.61	14.34	9.58	14.64	25.67	15.33	0.00	0.00	0.00	6.13	2.70	1.76	245	
32	45.74	18.77	6.90	7.66	6.90	6.51	0.00	0.00	0.00	6.51	1.24	1.62	244	
33	32.18	13.03	11.49	17.24	12.64	7.28	0.00	0.00	0.00	6.13	1.84	1.71	245	
34-A	54.41	2.68	3.07	9.21	10.34	12.26	0.00	4.60	.38	8.05	1.71	2.30	239	
34-B	0.00	0.00	18.39	1.92	7.66	1.92	0.00	0.00	0.00	70.11	2.77	1.04	78	
35	45.98	1.92	7.66	13.03	21.07	10.34	0.00	0.00	0.00	0.00	1.92	1.64	261	
ACTIVITY														
36	0.00	0.00	0.00	27.59	44.83	27.59	0.00	0.00	0.00	0.00	4.00	.74	261	
37	18.39	1.53	5.75	11.49	34.10	28.35	0.00	0.00	0.00	.38	3.27	1.79	260	
38	42.15	4.60	10.73	10.34	22.22	9.96	0.00	0.00	0.00	0.00	1.96	1.90	261	
39	37.55	2.30	5.36	15.33	23.75	15.33	0.00	0.00	0.00	.38	2.32	1.98	260	
40	0.00	75.48	24.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 5.10		261	BINOMIAL
INDIVIDUAL														
41	0.00	68.06	31.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 5.86		263	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.81	4.82	263	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.92	11.35	257	
44	0.00	27.00	36.12	34.98	0.00	0.00	0.00	0.00	1.52	.38	2.08	.79	258	
45	0.00	73.76	22.81	0.00	0.00	0.00	0.00	0.00	3.42	0.00	Z = 8.41		264	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.63	252	
51	1.63	10.16	.41	10.98	3.66	7.32	5.28	15.04	13.41	32.11	6.43	3.36	246	
52	0.00	27.38	16.35	19.59	13.31	5.70	1.90	3.80	4.18	11.79	2.70	1.68	221	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 36 (CATEGORIES 0,1,2 = 3,4,5) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-9.41	9.26	.15	0.00	0.00	0.00	0.00	0.00	0.00	.10	.03		
3	0.00	-.28	-5.02	.62	-3.91	.69	-3.46	2.01	-.54	9.99	.58	.00		
4	0.00	11.05	2.85	-8.78	-2.76	-2.80	0.00	0.00	.16	.30	-.34	-.04		
5	0.00	1.83	.72	0.00	0.00	0.00	0.00	0.00	.24	-5.79	Z =	-7.16	BINOMIAL	
6	0.00	2.58	-.78	0.00	0.00	0.00	0.00	0.00	-1.61	-.19	Z =	-6.34	BINOMIAL	
7	0.00	-3.35	-7.45	0.00	0.00	0.00	0.00	0.00	4.70	6.11	Z =	-4.62	BINOMIAL	
8	0.00	-5.41	-14.55	0.00	0.00	0.00	0.00	0.00	6.36	13.80	Z =	-3.86	BINOMIAL	
9	0.00	-10.09	13.09	0.00	0.00	0.00	0.00	0.00	-3.00	0.00	Z =	-8.23	BINOMIAL	
10	0.00	-3.76	-6.32	0.00	0.00	0.00	0.00	0.00	-.08	10.16	Z =	-4.92	BINOMIAL	
						NOISE								
11	0.00	19.86	-13.69	-.32	0.00	0.00	0.00	0.00	.15	0.00	Z =	6.30	BINOMIAL	
12-A	0.00	0.00	2.27	-16.89	10.86	3.11	0.00	0.00	.33	.33	-.15	-.16		
12-B	-.56	0.00	6.83	7.30	-8.61	-4.96	0.00	0.00	0.00	0.00	-.24	.00		
13	0.00	-.61	.32	0.00	0.00	0.00	0.00	0.00	0.00	.30	Z =	-9.80	BINOMIAL	
14	0.00	-6.61	12.18	-.74	-9.87	-6.28	0.00	0.00	.30	0.00	-.43	-.02		
15	0.00	3.65	-3.21	.71	-3.27	-3.04	0.00	0.00	.55	-.36	-.24	.10		
16	0.00	8.52	-.94	.26	-9.12	.43	0.00	0.00	.53	.30	-.25	.07		
17	0.00	-9.22	1.97	-11.96	0.00	0.00	0.00	0.00	.47	.30	-.77	-.02		
18	0.00	5.41	1.39	-7.69	0.00	0.00	0.00	0.00	.60	.30	-.13	.09		
19	16.72	.11	2.84	-3.66	-9.15	-7.11	0.00	0.00	0.00	.45	-.77	-.43		
						SOURCES								
20	16.12	1.30	.39	-5.57	-11.71	.09	0.00	0.00	0.00	-.62	-.62	-.06		
21	5.60	5.03	1.90	-4.72	-4.83	-2.51	0.00	0.00	0.00	-.47	-.38	-.04		
22	11.14	3.37	-2.68	-6.95	-3.75	-1.87	0.00	0.00	.15	.60	-.46	-.10		
23	-2.31	6.20	3.25	2.21	-5.72	-.94	0.00	0.00	-.62	-1.09	-.12	-.21		
24	6.27	1.45	.02	-1.96	-3.47	-2.30	0.00	0.00	0.00	-.02	-.30	-.24		
25	-2.44	8.52	-1.11	-1.19	-3.13	-1.47	0.00	0.00	.15	.66	-.17	-.30		
26	8.26	12.80	8.54	.15	-22.05	-8.30	0.00	0.00	.45	.15	-1.01	.06		
27	-.16	8.49	.64	-1.51	-11.02	-4.30	0.00	0.00	-.17	8.54	-.59	-.37		
28	6.13	8.92	-1.32	-6.06	-13.35	-4.98	0.00	0.00	0.00	6.62	-.77	-.14		
29	.20	5.11	-1.57	-2.77	-6.15	-4.14	0.00	0.00	.30	9.07	-.44	-.34		
30	1.24	7.62	.98	.07	-10.34	-8.41	0.00	0.00	.30	8.54	-.65	-.32		
31	-.32	6.05	-4.56	-2.13	-9.56	-7.58	0.00	0.00	0.00	8.32	-.52	-.11		
32	3.33	.90	-1.68	-2.60	-3.62	-4.68	0.00	0.00	0.00	8.24	-.44	-.37		
33	5.07	5.45	-.36	-6.06	-8.83	-5.49	0.00	0.00	0.00	9.22	-.67	-.36		
34-A	11.17	1.94	1.70	1.03	-5.42	-9.13	0.00	-2.36	-.36	1.49	-.81	-.69		
34-B	0.00	0.00	-2.00	-.67	-9.43	-1.82	0.00	0.00	0.00	9.62	-.44	-.31		
35	21.09	1.51	.98	-4.39	-12.43	-7.07	0.00	0.00	0.00	.30	-.94	-.39		
						ACTIVITY								
36	82.56	4.92	12.52	-27.59	-44.83	-27.59	0.00	0.00	0.00	0.00	-3.79	-.06		
37	30.19	2.64	5.58	-3.60	-17.11	-18.07	0.00	0.00	0.00	.36	-1.56	.12		
38	30.73	-.28	-2.23	-5.43	-14.77	-8.47	0.00	0.00	0.00	.45	-1.22	-.54		
39	21.32	1.28	4.92	-4.60	-13.02	-10.11	0.00	0.00	.30	-.09	-1.05	-.29		
40	0.00	6.84	-7.08	0.00	0.00	0.00	0.00	0.00	0.00	.45	Z =	1.39	BINOMIAL	
						INDIVIDUAL								
41	0.00	1.67	-1.97	0.00	0.00	0.00	0.00	0.00	0.00	.30	Z =	4.48	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.28	.33		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.72	-.45		
44	0.00	7.72	2.90	-11.09	0.00	0.00	0.00	0.00	.11	.36	-.19	-.02		
45	0.00	16.97	-16.43	0.00	0.00	0.00	0.00	0.00	-2.53	0.00	Z =	14.11	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.19	-.26		
51	-.33	-2.55	-.41	-6.74	.23	.62	4.44	-3.53	3.93	3.87	.41	-.56		
52	0.00	-11.20	.42	6.37	-2.18	-.51	1.21	.35	1.46	4.09	.28	-.04		

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BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 37 - CATEGORIES 0, 1 AND 2 (ALL SITES)

NUMBER OF RESPONDENTS = 502

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	61.16	38.65	.20	0.00	0.00	0.00	0.00	0.00	0.00	1.39	.49	502	
3	0.00	2.61	11.45	11.04	7.83	6.43	6.22	5.62	3.61	45.18	6.34	2.83	498	
4	0.00	26.69	38.25	26.89	5.78	1.99	0.00	0.00	0.00	.40	2.18	.96	500	
5	0.00	9.36	62.67	0.00	0.00	0.00	0.00	0.00	2.99	4.98	Z = -17.12		462	BINOMIAL
6	0.00	5.98	70.72	0.00	0.00	0.00	0.00	0.00	10.36	12.95	Z = -16.56		385	BINOMIAL
7	0.00	17.33	63.35	0.00	0.00	0.00	0.00	0.00	10.96	8.37	Z = -11.48		405	BINOMIAL
8	0.00	8.76	36.25	0.00	0.00	0.00	0.00	0.00	26.10	25.89	Z = -9.63		236	BINOMIAL
9	0.00	26.10	72.71	0.00	0.00	0.00	0.00	0.00	1.20	0.00	Z = -19.51		496	BINOMIAL
10	0.00	.40	25.10	0.00	0.00	0.00	0.00	0.00	0.00	74.50	Z = -19.06		148	BINOMIAL
						NOISE								
11	0.00	48.21	44.22	7.37	0.00	0.00	0.00	0.00	.20	0.00	Z =	.93	501	BINOMIAL
12-A	0.00	0.00	12.40	54.96	27.27	4.96	0.00	0.00	.41	0.00	3.25	.73	241	
12-B	0.00	0.00	13.51	44.14	34.68	7.66	0.00	0.00	0.00	0.00	3.36	.81	222	
13	0.00	.40	99.40	0.00	0.00	0.00	0.00	0.00	0.00	.20	Z = -22.20		501	BINOMIAL
14	0.00	8.52	37.27	35.47	13.23	5.21	0.00	0.00	.20	0.00	2.69	.98	498	
15	0.00	27.45	10.42	18.04	23.05	19.24	0.00	0.00	1.80	0.00	2.96	1.50	499	
16	0.00	38.88	1.20	3.61	51.70	1.00	0.00	0.00	3.21	.40	2.74	1.46	481	
17	0.00	34.87	40.08	22.85	0.00	0.00	0.00	0.00	2.20	0.00	1.88	.76	488	
18	0.00	24.85	28.06	46.49	0.00	0.00	0.00	0.00	.20	.40	2.22	.62	496	
19	57.31	13.83	13.43	7.62	5.81	1.80	0.00	0.00	0.00	.20	.96	1.35	493	
						SOURCES								
20	37.07	27.05	16.83	10.62	5.81	2.81	0.00	0.00	0.00	0.00	1.29	1.35	499	
21	31.46	23.85	17.03	9.82	12.22	5.41	0.00	0.00	0.00	.20	1.64	1.56	498	
22	32.25	37.68	14.23	8.82	5.01	1.60	0.00	0.00	.20	.20	1.21	1.22	497	
23	38.48	35.27	12.63	5.41	5.41	2.20	0.00	0.00	.20	.40	1.10	1.25	495	
24	66.33	17.23	6.81	3.01	4.01	1.00	0.00	0.00	0.00	.80	.65	1.19	499	
25	53.71	31.46	6.41	4.61	2.40	.60	0.00	0.00	.20	.60	.71	1.01	499	
26	16.43	20.24	21.84	20.24	14.83	3.21	0.00	0.00	.80	2.61	2.07	1.42	463	
27	42.89	18.44	8.02	7.01	6.41	3.01	0.00	0.00	.40	13.83	1.12	1.46	499	
28	16.03	31.26	13.43	16.03	8.42	1.40	0.00	0.00	0.00	13.43	1.70	1.32	432	
29	36.07	26.45	10.22	8.42	3.61	1.20	0.00	0.00	.40	13.63	1.08	1.24	429	
30	32.26	20.64	10.62	11.62	8.02	2.81	0.00	0.00	.20	13.83	1.43	1.49	429	
31	18.44	16.43	15.23	12.03	16.83	7.01	0.00	0.00	0.00	13.43	2.16	1.53	432	
32	50.70	21.44	4.41	4.41	3.01	1.80	0.00	0.00	0.00	13.43	.78	1.23	422	
33	36.67	20.44	12.22	10.42	5.41	1.00	0.00	0.00	0.00	13.83	1.19	1.33	430	
34-A	64.93	6.01	5.01	5.41	4.41	3.01	0.00	1.40	.20	9.62	.83	1.59	453	
34-B	0.00	0.00	16.23	1.20	2.40	.60	0.00	0.00	0.00	79.55	2.38	.60	102	
35	68.34	3.81	9.22	10.02	6.61	1.80	0.00	0.00	.20	.88	1.43	496		
						ACTIVITY								
36	69.94	4.01	12.22	4.61	6.61	2.20	0.00	0.00	0.00	.40	.80	1.39	497	
37	75.35	6.41	18.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.43	.78	499	
38	73.55	4.61	11.02	4.21	5.41	1.00	0.00	0.00	0.00	.20	.66	1.24	498	
39	65.73	4.01	11.42	9.62	5.81	2.81	0.00	0.00	.20	.40	.94	1.46	496	
40	0.00	86.38	11.42	0.00	0.00	0.00	0.00	0.00	0.00	.20	Z =	7.70	498	BINOMIAL
						INDIVIDUAL								
41	0.00	69.72	29.88	0.00	0.00	0.00	0.00	0.00	0.00	.40	Z =	8.94	500	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.27	5.15	494	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.57	10.70	487	
44	0.00	33.67	38.65	24.30	0.00	0.00	0.00	0.00	2.39	1.00	1.90	.77	495	
45	0.00	95.02	3.59	0.00	0.00	0.00	0.00	0.00	1.39	0.00	Z =	20.63	495	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.93	1.61	487	
51	1.32	6.57	0.00	5.93	4.40	7.47	10.77	11.21	17.14	33.19	6.66	2.96	455	
52	0.00	18.53	17.33	20.32	9.96	5.34	2.39	4.13	5.78	16.14	2.88	1.64	392	

BOLT BERANEK AND NEWMAN INC.

QUESTION 37 = CATEGORIES 3, 4 AND 5 (ALL SITES)

EPA 24 SITE SURVEY

NUMBER OF RESPONDENTS = 433

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	63.51	36.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	.48	433	
3	0.00	2.32	18.33	11.14	10.67	7.66	5.57	5.10	4.64	34.57	5.71	2.88	431	
4	0.00	18.94	35.80	29.79	10.39	4.85	0.00	0.00	.23	0.00	2.46	1.05	432	
5	0.00	7.39	83.83	0.00	0.00	0.00	0.00	0.00	1.85	6.93	Z = -16.65		365	BINOMIAL
6	0.00	5.31	70.67	0.00	0.00	0.00	0.00	0.00	9.93	14.09	Z = -15.60		329	BINOMIAL
7	0.00	21.94	69.05	0.00	0.00	0.00	0.00	0.00	5.31	3.70	Z = -10.29		294	BINOMIAL
8	0.00	11.55	51.73	0.00	0.00	0.00	0.00	0.00	20.32	16.40	Z = -10.51		274	BINOMIAL
9	0.00	33.26	63.74	0.00	0.00	0.00	0.00	0.00	3.00	0.00	Z = -6.44		420	BINOMIAL
10	0.00	4.39	27.94	0.00	0.00	0.00	0.00	0.00	.69	66.97	Z = -8.62		140	BINOMIAL
						NOISE								
11	0.00	28.87	65.36	5.77	0.00	0.00	0.00	0.00	0.00	0.00	Z = -7.82		433	BINOMIAL
12-A	0.00	0.00	12.80	58.40	25.60	2.40	0.00	0.00	0.00	.80	3.18	.67	124	
12-B	.35	0.00	4.24	39.58	40.64	15.19	0.00	0.00	0.00	0.00	3.66	.81	283	
13	0.00	.23	99.54	0.00	0.00	0.00	0.00	0.00	0.00	.23	Z = -20.69		432	BINOMIAL
14	0.00	1.86	19.72	33.18	30.39	14.85	0.00	0.00	0.00	0.00	3.37	1.02	431	
15	0.00	16.24	12.99	12.30	20.42	35.96	0.00	0.00	1.66	.23	3.48	1.50	422	
16	0.00	35.96	.46	3.94	56.51	1.16	0.00	0.00	1.66	0.00	2.86	1.44	423	
17	0.00	27.84	41.76	27.84	0.00	0.00	0.00	0.00	2.09	.46	2.00	.76	420	
18	0.00	17.17	18.10	64.27	0.00	0.00	0.00	0.00	.46	0.00	2.47	.77	429	
19	50.35	10.44	9.28	9.74	13.23	6.73	0.00	0.00	0.00	.23	1.45	1.75	430	
						SOURCES								
20	20.88	26.22	15.08	12.99	16.47	7.89	0.00	0.00	0.00	.46	2.02	1.61	429	
21	17.87	16.10	15.55	12.76	23.90	11.37	0.00	0.00	0.00	.46	2.41	1.69	429	
22	35.27	30.39	14.39	10.21	7.42	1.86	0.00	0.00	0.00	.46	1.29	1.34	429	
23	45.48	25.99	10.21	4.64	7.19	5.10	0.00	0.00	.46	.93	1.16	1.49	425	
24	54.52	14.62	8.35	6.50	10.67	4.87	0.00	0.00	0.00	.46	1.18	1.61	429	
25	60.56	21.35	7.42	4.64	3.94	1.16	0.00	0.00	0.00	.93	.72	1.16	427	
26	12.06	9.28	13.46	17.40	29.70	14.85	0.00	0.00	0.00	3.25	2.91	1.60	417	
27	38.28	12.53	6.03	8.58	16.01	6.50	0.00	0.00	.93	11.14	1.67	1.81	379	
28	12.30	19.72	16.94	15.79	17.17	7.19	0.00	0.00	0.00	10.90	2.31	1.53	384	
29	36.66	19.95	9.51	10.21	6.96	5.34	0.00	0.00	0.00	11.37	1.46	1.58	382	
30	30.86	18.31	5.57	10.90	14.39	11.60	0.00	0.00	.23	11.14	1.97	1.67	382	
31	18.10	12.69	9.74	14.39	20.88	13.23	0.00	0.00	0.00	10.67	2.52	1.76	385	
32	47.10	17.40	7.42	7.19	4.87	4.87	0.00	0.00	0.00	11.14	1.16	1.52	383	
33	35.03	12.76	8.82	15.79	10.44	6.03	0.00	0.00	0.00	11.14	1.68	1.70	383	
34-A	59.40	2.09	3.25	4.18	9.05	8.82	0.00	4.64	0.00	8.56	1.46	2.22	394	
34-B	0.00	0.00	17.97	1.62	5.34	.93	0.00	0.00	0.00	74.25	2.59	.93	111	
35	53.36	2.09	6.96	9.74	18.56	9.28	0.00	0.00	0.00	0.00	1.66	1.93	431	
						ACTIVITY								
36	46.87	2.78	5.10	11.37	19.49	13.92	0.00	0.00	0.00	.46	1.96	2.02	429	
37	0.00	0.00	0.00	19.72	47.10	33.18	0.00	0.00	0.00	0.00	4.13	.71	431	
38	53.60	4.18	6.50	9.28	18.79	7.19	0.00	0.00	0.00	.46	1.57	1.87	429	
39	38.28	2.09	6.03	14.62	24.59	13.92	0.00	0.00	.23	.23	2.27	1.97	429	
40	0.00	71.23	28.54	0.00	0.00	0.00	0.00	0.00	0.00	.23	Z = 4.27		430	BINOMIAL
						INDIVIDUAL								
41	0.00	68.62	31.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = 7.63		433	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.73	4.96	428	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.63	11.16	418	
44	0.00	30.95	37.88	30.25	0.00	0.00	0.00	0.00	.69	.23	1.99	.79	429	
45	0.00	78.52	19.63	0.00	0.00	0.00	0.00	0.00	1.85	0.00	Z = 12.37		425	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	1.47	417	
51	1.48	7.90	.25	7.16	3.21	8.15	5.43	13.83	15.56	37.04	6.80	3.00	405	
52	0.00	20.09	15.94	19.86	13.86	5.31	3.23	3.93	4.62	13.16	2.92	1.65	356	

BOLT BERANEK AND NEWMAN INC. — EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 37 (CATEGORIES 0+1+2 = 3+4+5) FOR ALL SITES

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	-2.36	2.16	.20	0.00	0.00	0.00	0.00	0.00	0.00	.03	.01		
3	0.00	.29	-6.66	-.09	-2.84	-1.23	.66	.52	-1.03	10.61	.64	-.05		
4	0.00	7.76	2.45	-2.90	-6.62	-2.86	0.00	0.00	-.23	.40	-.28	-.10		
5	0.00	1.97	-1.16	0.00	0.00	0.00	0.00	0.00	1.14	-1.95	Z =	-.47	BINOMIAL	
6	0.00	.66	.08	0.00	0.00	0.00	0.00	0.00	.43	-1.14	Z =	-.96	BINOMIAL	
7	0.00	-4.61	-5.71	0.00	0.00	0.00	0.00	0.00	5.64	4.67	Z =	-1.20	BINOMIAL	
8	0.00	-2.78	-13.49	0.00	0.00	0.00	0.00	0.00	5.77	10.50	Z =	.68	BINOMIAL	
9	0.00	-7.16	8.97	0.00	0.00	0.00	0.00	0.00	-1.81	0.00	Z =	-4.07	BINOMIAL	
10	0.00	-3.99	-2.84	0.00	0.00	0.00	0.00	0.00	-.69	7.53	Z =	-2.34	BINOMIAL	
						NOISE								
11	0.00	19.34	-21.13	1.60	0.00	0.00	0.00	0.00	.20	0.00	Z =	8.75	BINOMIAL	
12-A	0.00	0.00	-.40	-3.44	1.67	2.56	0.00	0.00	.41	-.80	.07	.06		
12-B	-.35	0.00	9.27	-.57	-5.95	-7.54	0.00	0.00	0.00	0.00	-.29	-.00		
13	0.00	.17	-.14	0.00	0.00	.0.00	0.00	0.00	0.00	-.03	Z =	-1.52	BINOMIAL	
14	0.00	6.76	17.55	2.29	-17.17	-9.54	0.00	0.00	.20	0.00	-.68	-.04		
15	0.00	11.21	-.57	5.74	2.93	-16.72	0.00	0.00	-.05	-.23	-.52	-.00		
16	0.00	2.91	.74	-.34	-4.91	-.16	0.00	0.00	1.35	.40	-.12	.02		
17	0.00	7.03	-1.68	-5.00	0.00	0.00	0.00	0.00	.12	-.49	-.17	.00		
18	0.00	7.66	9.96	-17.78	0.00	0.00	0.00	0.00	-.26	.40	-.26	.05		
19	6.97	3.39	4.15	-2.13	-7.41	-4.92	0.00	0.00	0.00	-.03	-.49	-.60		
						SOURCES								
20	16.19	.84	1.75	-2.37	-10.66	-5.28	0.00	0.00	0.00	-.46	-.73	-.27		
21	13.60	5.75	1.49	-2.94	-11.67	-5.96	0.00	0.00	0.00	-.26	-.77	-.12		
22	-3.00	7.28	-.16	-1.39	-2.41	-.25	0.00	0.00	.20	-.26	-.08	-.12		
23	-7.00	9.26	2.42	.77	-1.76	-2.90	0.00	0.00	-.26	-.53	-.04	-.24		
24	11.81	2.62	-1.54	-3.49	-6.66	-3.07	0.00	0.00	0.00	.34	-.53	-.43		
25	-6.65	10.12	-1.01	-.03	-1.54	-.56	0.00	0.00	.20	-.33	-.01	-.15		
26	4.37	10.96	8.39	2.84	-14.87	-11.64	0.00	0.00	.60	-.64	-.84	-.18		
27	4.60	5.91	1.98	-1.67	-9.60	-3.49	0.00	0.00	-.53	2.69	-.55	-.34		
28	3.74	11.54	-3.51	.25	-8.75	-5.79	0.00	0.00	0.00	2.52	-.61	-.22		
29	-.59	6.50	.71	-1.79	-3.35	-4.13	0.00	0.00	.40	2.26	-.32	-.24		
30	1.41	5.33	5.05	.72	-6.37	-8.60	0.00	0.00	-.33	2.69	-.54	-.39		
31	.34	3.44	5.49	-1.56	-4.25	-5.21	0.00	0.00	0.00	2.75	-.34	-.13		
32	3.60	4.04	-3.02	-2.78	-1.06	-3.07	0.00	0.00	0.00	2.29	-.32	-.28		
33	1.64	7.68	3.41	-5.36	-5.03	-5.03	0.00	0.00	0.00	2.69	-.49	-.37		
34-A	5.53	3.92	1.76	1.23	-4.64	-5.81	0.00	-3.24	.20	1.03	-.64	-.63		
34-B	0.00	0.00	-1.63	-.42	-2.93	-.33	0.00	0.00	0.00	5.31	-.20	-.13		
35	14.97	1.72	2.26	.28	-11.95	-7.48	0.00	0.00	0.00	.20	-.78	-.50		
						ACTIVITY								
36	23.07	1.22	7.12	-6.76	-12.88	-11.76	0.00	0.00	0.00	-.06	-1.15	-.63		
37	75.35	6.41	18.24	-19.72	-47.10	-33.18	0.00	0.00	0.00	0.00	-3.71	.07		
38	19.95	.43	4.53	-5.07	-13.36	-6.19	0.00	0.00	0.00	-.26	-.91	-.63		
39	27.45	1.92	5.39	-5.00	-18.78	-11.12	0.00	0.00	-.03	.17	-1.33	-.51		
40	0.00	17.15	-17.12	0.00	0.00	0.00	0.00	0.00	0.00	-.03	Z =	3.43	BINOMIAL	
						INDIVIDUAL								
41	0.00	.90	-1.30	0.00	0.00	0.00	0.00	0.00	0.00	.40	Z =	1.11	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.64	.21		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.96	-.46		
44	0.00	2.72	.77	-5.95	0.00	0.00	0.00	0.00	1.70	.77	-.09	-.02		
45	0.00	16.53	-16.04	0.00	0.00	0.00	0.00	0.00	-.45	0.00	Z =	6.26	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.12	.03		
51	-.16	.67	-.25	-1.23	1.19	-.68	5.34	-2.62	1.59	-3.65	-.11	-.04		
52	0.00	-1.57	1.40	.46	-3.90	.07	-.84	.26	1.16	2.97	-.05	-.01		

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 40 - CATEGORY 2 (ALL SITES)

NUMBER OF RESPONDENTS = 186

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	64.52	35.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.35	.48	186	
3	0.00	1.08	12.43	8.11	9.73	8.65	9.19	4.66	4.32	41.62	6.31	2.71	185	
4	0.00	21.51	25.27	33.87	10.22	4.84	0.00	0.00	0.00	0.00	2.47	1.08	186	
5	0.00	4.84	85.48	0.00	0.00	0.00	0.00	0.00	4.84	4.84	Z = -11.57		186	BINOMIAL
6	0.00	6.45	64.52	0.00	0.00	0.00	0.00	0.00	16.13	12.90	Z = -9.40		132	BINOMIAL
7	0.00	24.19	66.13	0.00	0.00	0.00	0.00	0.00	5.91	3.76	Z = -6.02		168	BINOMIAL
8	0.00	11.83	50.00	0.00	0.00	0.00	0.00	0.00	23.66	14.52	Z = -6.62		115	BINOMIAL
9	0.00	25.81	71.51	0.00	0.00	0.00	0.00	0.00	2.69	0.00	Z = -6.32		181	BINOMIAL
10	0.00	2.69	23.66	0.00	0.00	0.00	0.00	0.00	0.00	73.66	Z = -5.57		49	BINOMIAL
						NOISE								
11	0.00	34.95	60.22	4.84	0.00	0.00	0.00	0.00	0.00	0.00	Z = -3.51		186	BINOMIAL
12=A	0.00	0.00	15.38	53.85	21.54	6.15	0.00	0.00	1.54	1.54	3.19	.77	63	
12=B	0.00	0.00	8.04	37.50	38.39	16.07	0.00	0.00	0.00	0.00	3.63	.85	112	
13	0.00	1.08	98.39	0.00	0.00	0.00	0.00	0.00	0.00	.54	Z = -13.31		185	BINOMIAL
14	0.00	3.83	21.86	25.68	30.05	18.03	0.00	0.00	0.00	.55	3.27	1.12	182	
15	0.00	17.49	12.57	11.48	25.14	31.15	0.00	0.00	1.09	1.09	3.41	1.46	179	
16	0.00	34.43	1.09	5.46	53.55	1.64	0.00	0.00	2.73	1.09	2.84	1.43	176	
17	0.00	30.05	48.09	19.13	0.00	0.00	0.00	0.00	2.19	.55	1.89	.76	178	
18	0.00	18.58	20.22	58.47	0.00	0.00	0.00	0.00	1.64	1.09	2.41	.79	178	
						SOURCES								
19	50.27	14.75	9.29	8.74	8.20	7.10	0.00	0.00	0.00	1.64	1.30	1.67	186	
20	25.68	25.14	12.02	12.02	14.75	9.84	0.00	0.00	0.00	.55	1.95	1.70	182	
21	22.40	19.13	12.02	8.20	24.59	12.02	0.00	0.00	0.00	.64	2.38	1.79	180	
22	32.79	38.80	12.02	5.46	9.29	0.00	0.00	0.00	0.00	1.64	1.18	1.23	180	
23	34.43	36.61	12.57	2.73	7.10	4.92	0.00	0.00	0.00	1.64	1.25	1.41	183	
24	56.28	15.85	4.92	5.46	9.29	7.10	0.00	0.00	0.00	1.09	1.16	1.68	181	
25	53.01	27.87	7.10	4.92	3.28	1.64	0.00	0.00	0.00	2.19	.80	1.16	179	
26	14.21	9.84	14.75	16.94	26.23	13.11	0.00	0.00	0.00	4.92	2.74	1.64	174	
27	35.52	11.48	4.92	8.20	17.49	8.20	0.00	0.00	1.09	13.11	1.83	1.88	157	
28	11.48	25.14	13.11	16.39	14.21	6.56	0.00	0.00	0.00	13.11	2.19	1.52	159	
29	39.89	20.77	7.65	8.20	4.92	5.46	0.00	0.00	0.00	13.11	1.76	1.84	155	
30	29.51	16.94	9.29	8.74	13.11	9.84	0.00	0.00	0.00	12.57	1.87	1.86	160	
31	14.75	14.21	8.74	11.48	21.31	16.94	0.00	0.00	0.00	12.57	2.76	1.79	150	
32	47.54	21.31	4.37	8.74	1.64	3.83	0.00	0.00	0.00	12.57	.94	1.36	160	
33	30.60	18.03	10.38	13.11	9.29	6.01	0.00	0.00	0.00	12.57	1.66	1.64	160	
34=A	56.83	3.28	4.92	3.83	6.01	8.74	0.00	4.37	0.00	12.02	1.40	2.17	161	
34=B	0.00	0.00	17.49	1.09	3.83	1.09	0.00	0.00	0.00	76.50	2.51	.92	43	
						ACTIVITY								
35	55.19	4.37	4.92	10.38	15.85	8.20	0.00	0.00	0.00	1.09	1.61	1.58	151	
36	50.82	4.37	8.74	9.84	13.11	12.02	0.00	0.00	0.00	1.09	1.66	1.93	181	
37	21.31	3.28	6.56	9.84	28.96	28.42	0.00	0.00	0.00	1.64	3.69	1.90	180	
38	57.38	8.74	6.01	9.29	12.02	5.46	0.00	0.00	0.00	1.09	1.25	1.71	181	
39	43.72	2.19	8.74	9.29	20.22	14.75	0.00	0.00	0.00	1.09	2.04	2.01	181	
						INDIVIDUAL								
40	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z = -10.00		183	BINOMIAL
41	0.00	63.44	36.02	0.00	0.00	0.00	0.00	0.00	0.00	.54	Z = 3.75		185	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.46	4.90	184	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.65	11.50	181	
44	0.00	27.42	37.63	34.95	0.00	0.00	0.00	0.00	0.00	0.00	2.08	.79	186	
45	0.00	77.96	20.97	0.00	0.00	0.00	0.00	0.00	1.08	0.00	Z = 7.81		184	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.50	182	
51	1.14	7.43	0.00	5.14	.57	7.43	8.00	14.29	18.29	37.71	6.96	2.49	175	
52	0.00	15.59	15.05	25.81	13.98	4.30	2.69	5.91	4.30	12.37	3.10	1.65	155	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 40 = ALL CATEGORIES EXCEPT 2 (ALL SITES)

NUMBER OF RESPONDENTS = 1851

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.34	37.60	.05	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	1851	
3	0.00	1.80	12.11	11.29	0.40	5.84	6.27	4.86	4.15	45.28	6.35	2.82	1633	
4	0.00	31.01	40.14	21.46	4.59	1.89	0.00	0.00	.43	.27	2.06	.94	1836	
5	0.00	14.86	79.36	0.00	0.00	0.00	0.00	0.00	2.00	3.78	Z =	-20.59	1744	BINOMIAL
6	0.00	7.51	70.77	0.00	0.00	0.00	0.00	0.00	9.94	11.78	Z =	-30.76	1449	BINOMIAL
7	0.00	10.97	57.81	0.00	0.00	0.00	0.00	0.00	15.61	15.61	Z =	-24.30	1273	BINOMIAL
8	0.00	5.24	30.04	0.00	0.00	0.00	0.00	0.00	32.04	32.69	Z =	-17.24	653	BINOMIAL
9	0.00	23.07	74.99	0.00	0.00	0.00	0.00	0.00	1.67	.27	Z =	-22.56	1315	BINOMIAL
10	0.00	1.03	21.29	0.00	0.00	0.00	0.00	0.00	.43	77.26	Z =	-18.45	413	BINOMIAL
						NOISE								
11	0.00	64.24	28.47	7.08	0.00	0.00	0.00	0.00	.11	.11	Z =	15.98	1847	BINOMIAL
12=A	.34	0.00	6.56	47.18	36.67	8.58	0.00	0.00	.17	.50	3.47	.77	1181	
12=B	.19	0.00	13.25	46.30	31.12	8.35	0.00	0.00	.19	0.00	3.33	.83	526	
13	0.00	58.56	41.22	0.00	0.00	0.00	0.00	0.00	0.00	.22	2 =	7.47	1847	BINOMIAL
14	0.00	6.03	30.67	36.17	18.87	7.47	0.00	0.00	.26	.52	2.91	1.02	737	
15	0.00	23.33	11.14	16.12	20.71	25.69	0.00	0.00	2.10	.92	3.15	1.53	746	
16	0.00	37.75	.79	3.28	53.60	.92	0.00	0.00	2.62	1.05	2.78	1.46	735	
17	0.00	31.59	38.93	26.21	0.00	0.00	0.00	0.00	2.33	1.05	1.94	.77	738	
18	0.00	21.63	23.98	53.21	0.00	0.00	0.00	0.00	.13	1.05	2.32	.81	754	
						SOURCES								
19	54.65	11.53	11.80	8.39	9.31	3.28	0.00	0.00	0.00	1.05	1.15	1.54	755	
20	30.14	26.74	17.04	11.40	9.70	3.80	0.00	0.00	0.00	1.18	1.55	1.45	754	
21	25.29	21.63	17.17	11.80	15.73	7.47	0.00	0.00	0.00	.92	1.93	1.63	756	
22	33.42	32.90	14.81	10.35	5.37	2.10	0.00	0.00	.13	.92	1.27	1.29	755	
23	42.73	29.49	11.14	5.50	6.03	3.15	0.00	0.00	.39	1.57	1.10	1.35	742	
24	61.07	15.99	7.99	4.46	6.42	2.36	0.00	0.00	0.00	1.70	.84	1.35	750	
25	57.01	26.34	6.66	4.46	3.01	.66	0.00	0.00	.13	1.70	.70	1.06	749	
26	14.15	16.38	18.74	19.13	20.18	7.34	0.00	0.00	.39	3.67	2.38	1.53	732	
27	41.81	16.51	7.47	7.47	9.04	1.67	0.00	0.00	.52	13.50	1.26	1.54	656	
28	14.94	25.69	15.47	15.47	11.93	3.41	0.00	0.00	0.00	13.11	1.93	1.43	663	
29	34.99	23.65	10.35	9.31	5.11	2.49	0.00	0.00	.26	13.63	1.22	1.38	657	
30	31.59	18.35	7.99	11.66	10.22	6.16	0.00	0.00	.26	13.76	1.64	1.68	656	
31	18.87	14.81	13.63	13.76	17.82	7.99	0.00	0.00	0.00	13.11	2.24	1.67	663	
32	46.75	18.87	6.03	4.98	4.85	3.01	0.00	0.00	0.00	13.50	.93	1.39	660	
33	36.57	16.51	10.46	12.71	7.21	2.62	0.00	0.00	0.00	13.89	1.37	1.56	657	
34=A	62.78	4.33	4.06	5.11	6.55	4.98	0.00	2.49	.13	9.57	1.07	1.87	689	
34=B	0.00	0.00	16.78	1.57	3.67	.66	0.00	0.00	0.00	77.33	2.48	.86	173	
						ACTIVITY								
35	61.86	2.62	9.04	9.70	11.01	4.46	0.00	0.00	0.00	1.31	1.18	1.66	753	
36	60.42	3.28	8.91	7.08	12.19	6.55	0.00	0.00	0.00	1.57	1.26	1.76	751	
37	44.17	3.41	10.35	8.78	19.66	11.93	0.00	0.00	0.00	1.70	1.92	1.95	750	
38	65.01	3.28	9.70	5.77	11.27	3.41	0.00	0.00	0.00	1.57	1.04	1.61	751	
39	54.39	3.41	8.78	12.45	12.84	6.29	0.00	0.00	.26	.57	1.44	1.78	749	
						INDIVIDUAL								
40	0.00	98.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.18	Z =	9.94	754	BINOMIAL
41	0.00	70.50	29.12	0.00	0.00	0.00	0.00	0.00	.11	.27	Z =	17.84	1844	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.05	6.23	1813	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.86	11.27	1769	
44	0.00	34.20	46.09	23.28	0.00	0.00	0.00	0.00	1.78	.65	1.89	.76	1806	
45	0.00	95.14	3.94	0.00	0.00	0.00	0.00	0.00	.70	.22	Z =	39.42	1834	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.94	1.46	1802	
51	2.23	9.70	.18	6.87	3.86	9.16	8.37	13.37	15.90	30.36	6.41	2.92	1660	
52	0.00	18.10	16.64	18.04	10.26	5.94	2.81	3.73	6.37	18.10	2.90	1.66	1398	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 40 (CATEGORY 2 - THE REST) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	2.17	-2.12	-.05	0.00	0.00	0.00	0.00	0.00	0.00	-.02	-.01		
3	0.00	-.72	.32	-3.16	1.33	2.81	2.92	.01	.18	-3.66	-.04	-.11		
4	0.00	-9.50	-10.57	12.21	5.62	2.95	0.00	0.00	-.43	-.27	.62	.14		
5	0.00	-10.02	6.12	0.00	0.00	0.00	0.00	0.00	2.84	.06	Z =	17.02	BINOMIAL	
6	0.00	-1.06	-6.26	0.00	0.00	0.00	0.00	0.00	6.19	1.13	Z =	21.36	BINOMIAL	
7	0.00	13.23	-8.32	0.00	0.00	0.00	0.00	0.00	-9.70	-11.85	Z =	18.28	BINOMIAL	
8	0.00	6.59	19.96	0.00	0.00	0.00	0.00	0.00	-8.38	-18.17	Z =	11.34	BINOMIAL	
9	0.00	2.74	-3.48	0.00	0.00	0.00	0.00	0.00	1.01	-.27	Z =	14.24	BINOMIAL	
10	0.00	1.66	2.37	0.00	0.00	0.00	0.00	0.00	-.43	-3.60	Z =	12.96	BINOMIAL	
						NOISE								
11	0.00	-29.29	31.74	-2.24	0.00	0.00	0.00	0.00	-.11	-.11	Z =	-19.51	BINOMIAL	
12-A	-.34	0.00	8.82	6.66	-15.13	-2.42	0.00	0.00	1.37	1.03	-.28	.00		
12-B	-.19	0.00	-5.82	-8.80	7.27	7.72	0.00	0.00	-.19	0.00	.29	.02		
13	0.00	-57.49	57.17	0.00	0.00	0.00	0.00	0.00	0.00	.32	Z =	-20.78	BINOMIAL	
14	0.00	-2.20	-8.81	-10.49	11.16	10.56	0.00	0.00	-.26	.02	.44	-.11		
15	0.00	-5.84	1.43	-4.65	4.43	5.46	0.00	0.00	-1.00	.18	.26	-.04		
16	0.00	-3.32	.31	2.19	-.05	.72	0.00	0.00	.11	.04	.08	-.03		
17	0.00	-1.53	9.16	-7.09	0.00	0.00	0.00	0.00	-.04	-.50	-.06	-.07		
18	0.00	-3.05	-3.77	5.26	0.00	0.00	0.00	0.00	1.51	.04	.09	-.02		
						SOURCES								
19	-4.38	3.22	-2.61	.36	-1.11	3.83	0.00	0.00	0.00	-.59	.15	-.13		
20	-4.46	-1.60	-5.02	.62	5.06	6.04	0.00	0.00	0.00	-.63	.40	.24		
21	-2.89	-2.50	-5.15	-3.60	8.86	4.55	0.00	0.00	0.00	.72	.37	.16		
22	-.63	-5.90	-2.79	-4.89	3.93	-2.10	0.00	0.00	-.13	.72	-.09	-.07		
23	-8.30	7.12	1.43	-2.77	1.07	1.77	0.00	0.00	-.39	.07	.15	.05		
24	-4.79	-.14	-3.06	1.01	2.87	4.74	0.00	0.00	0.00	-.61	.39	.32		
25	-4.01	-1.53	-.62	-.46	.26	-.95	0.00	0.00	-.13	-.48	.10	-.15		
26	.05	-6.55	-3.99	-2.20	6.05	5.78	0.00	0.00	-.39	1.25	.36	.18		
27	-6.29	-5.04	-2.55	.73	8.44	4.53	0.00	0.00	.57	-.36	.57	.30		
28	-3.47	-.55	-2.35	-.93	2.38	-1.15	0.00	0.00	0.00	-.01	.26	-.08		
29	4.90	-3.09	-2.78	-1.11	-.19	2.97	0.00	0.00	-.26	-.52	.02	.18		
30	-2.08	-1.41	1.29	-2.92	2.89	3.68	0.00	0.00	-.26	-1.19	.21	.12		
31	-4.12	-.60	-4.39	-2.29	3.49	8.95	0.00	0.00	0.00	-.54	.46	.12		
32	-1.21	2.44	-1.66	3.76	-3.21	.81	0.00	0.00	0.00	-.93	.01	-.02		
33	-5.97	1.52	-.10	.40	2.08	3.39	0.00	0.00	0.00	-1.32	.38	.14		
34-A	-5.95	-1.05	.86	-1.29	-.54	3.76	0.00	1.88	-.13	2.45	-.31	.30		
34-B	0.00	0.00	.71	-.48	.16	.44	0.00	0.00	0.00	-.82	.03	.06		
						ACTIVITY								
35	-6.67	1.75	-4.13	-.65	4.84	1.74	0.00	0.00	0.00	-.22	.34	.26		
36	-9.60	1.10	-.17	2.76	.93	5.47	0.00	0.00	0.00	-.43	.40	.16		
37	-22.86	-.13	-3.80	1.05	9.30	16.49	0.00	0.00	0.00	-.36	1.17	-.06		
38	-7.63	-5.47	-3.69	-3.52	-.75	2.06	0.00	0.00	0.00	-.48	.27	.11		
39	-10.67	-1.22	-.04	-3.16	7.37	8.45	0.00	0.00	-.26	-.48	.61	.23		
						INDIVIDUAL								
40	0.00	-98.82	100.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.18	Z =	-19.94	BINOMIAL	
41	0.00	-7.06	6.90	0.00	0.00	0.00	0.00	0.00	-.11	.27	Z =	-14.09	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.41	-.32		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.21	.22		
44	0.00	-6.78	-2.45	11.66	0.00	0.00	0.00	0.00	-1.78	-.65	.19	.03		
45	0.00	-17.18	17.02	0.00	0.00	0.00	0.00	0.00	.37	-.22	Z =	-11.60	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.18	.04		
51	-1.09	-2.27	-.18	-1.72	-3.26	-1.73	-.37	.91	2.38	7.35	.55	-.44		
52	0.00	-2.51	-1.59	7.76	3.71	-1.64	-.12	2.19	-2.07	-5.73	.19	-.01		

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

RESPONDENTS SPENDING GREATER THAN 20 HOURS AT HOME ON WEEK DAYS (0+9)

NUMBER OF RESPONDENTS = 469

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	80.86	19.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.19	.39	659	
3	0.00	1.39	8.04	6.96	7.26	7.42	5.10	5.10	3.86	54.87	6.96	2.62	647	
4	0.00	31.56	36.27	22.00	5.77	3.49	0.00	0.00	.46	.46	2.13	1.04	653	
5	0.00	13.96	77.85	0.00	0.00	0.00	0.00	0.00	2.43	5.77	Z = -17.12		600	BINOMIAL
6	0.00	6.37	66.82	0.00	0.00	0.00	0.00	0.00	10.77	14.24	Z = -14.10		441	BINOMIAL
7	0.00	10.77	54.93	0.00	0.00	0.00	0.00	0.00	16.39	17.91	Z = -13.94		433	BINOMIAL
8	0.00	6.71	27.77	0.00	0.00	0.00	0.00	0.00	31.71	33.20	Z = -10.22		218	BINOMIAL
9	0.00	19.12	77.45	0.00	0.00	0.00	0.00	0.00	2.73	.30	Z = -16.21		629	BINOMIAL
10	0.00	.76	17.91	0.00	0.00	0.00	0.00	0.00	0.00	81.34	Z = -10.14		123	BINOMIAL
						NOISE								
11	0.00	61.31	33.20	5.19	0.00	0.00	0.00	0.00	0.00	.30	Z =	8.35	657	BINOMIAL
12-A	.74	0.00	6.93	44.07	38.61	9.41	0.00	0.00	.50	.74	3.49	.89	399	
12-B	0.00	0.00	14.47	41.21	35.66	8.54	0.00	0.00	0.00	0.00	3.76	.84	199	
13	0.00	55.54	43.85	0.00	0.00	0.00	0.00	0.00	0.00	.61	Z =	3.01	656	BINOMIAL
14	0.00	7.27	30.45	29.76	24.91	7.27	0.00	0.00	0.00	.35	2.94	1.07	238	
15	0.00	26.64	8.65	16.61	16.34	27.34	0.00	0.00	1.04	1.38	3.11	1.67	242	
16	0.00	34.95	1.84	4.15	56.40	.69	0.00	0.00	1.34	1.15	2.86	1.43	261	
17	0.00	37.72	40.48	20.42	0.00	0.00	0.00	0.00	0.00	1.38	1.82	.75	245	
18	0.00	27.34	21.50	49.13	0.00	0.00	0.00	0.00	0.00	1.73	2.22	.85	284	
						SOURCES								
19	60.66	11.42	8.65	6.67	9.34	2.08	0.00	0.00	0.00	1.36	.98	1.47	265	
20	35.29	25.95	12.40	10.03	11.07	3.81	0.00	0.00	0.00	1.04	1.47	1.52	289	
21	24.91	14.69	14.88	8.30	22.84	9.69	0.00	0.00	0.00	.69	2.15	1.75	287	
22	34.95	37.91	16.26	7.96	5.88	0.00	0.00	0.00	.35	.69	1.15	1.16	286	
23	43.25	32.18	10.73	3.81	5.88	1.73	0.00	0.00	1.04	1.39	1.80	1.24	262	
24	66.79	13.84	6.92	2.42	5.54	3.11	0.00	0.00	0.00	1.38	.74	1.34	246	
25	54.67	31.14	6.23	2.42	2.77	1.04	0.00	0.00	0.00	1.73	.68	1.02	284	
26	18.34	16.96	16.26	15.97	20.76	5.54	0.00	0.00	1.04	5.54	2.21	1.53	270	
27	40.14	13.49	4.14	5.19	12.46	4.15	0.00	0.00	.69	19.73	1.36	1.71	232	
28	14.19	25.61	15.57	10.73	12.11	3.46	0.00	0.00	0.00	18.34	1.40	1.45	236	
29	17.02	21.80	9.00	6.27	3.81	2.77	0.00	0.00	.35	19.03	1.09	1.36	233	
30	29.76	17.30	9.65	9.34	9.69	6.23	0.00	0.00	.35	18.69	1.64	1.68	234	
31	13.84	10.38	12.80	11.76	22.84	10.38	0.00	0.00	0.00	17.90	2.62	1.64	237	
32	49.48	16.96	3.81	3.46	4.84	3.11	0.00	0.00	0.00	18.34	.86	1.38	236	
33	13.56	18.34	9.34	10.03	6.57	3.11	0.00	0.00	0.00	19.03	1.35	1.50	234	
34-A	67.13	3.46	3.46	3.11	6.23	3.11	0.00	1.04	0.00	12.46	.77	1.59	253	
34-B	0.00	0.00	13.49	.35	3.81	0.00	0.00	0.00	0.00	82.35	2.45	.82	91	
						ACTIVITY								
35	69.20	3.11	9.19	6.92	10.36	3.11	0.00	0.00	0.00	2.04	.93	1.58	283	
36	64.71	3.11	6.57	5.54	12.11	5.54	0.00	0.00	0.00	2.42	1.12	1.72	262	
37	46.37	2.77	7.96	6.92	21.80	12.11	0.00	0.00	0.00	2.04	1.91	2.03	283	
38	78.24	3.46	9.88	3.46	11.42	3.11	0.00	0.00	0.00	2.42	.89	1.57	262	
39	54.33	7.81	8.30	10.38	14.53	6.23	0.00	0.00	.35	2.06	1.44	1.80	282	
						INDIVIDUAL								
40	0.00	78.89	20.07	0.00	0.00	0.00	0.00	0.00	0.00	1.04	Z =	5.91	386	BINOMIAL
41	0.00	71.62	27.77	0.00	0.00	0.00	0.00	0.00	0.00	.61	Z =	11.29	655	BINOMIAL
42											23.63	.81	619	
43											42.94	9.54	622	
44	0.00	30.80	42.34	23.98	0.00	0.00	0.00	0.00	2.28	.61	1.93	.75	640	
45	0.00	94.23	4.79	0.00	0.00	0.00	0.00	0.00	.78	.30	Z =	25.11	662	BINOMIAL
46											1.03	1.62	643	
51	4.79	13.12	.35	7.09	4.84	9.75	9.57	14.64	16.07	21.63	5.75	2.93	564	
52	0.00	26.10	11.36	13.81	6.68	3.49	1.52	3.19	9.26	24.58	2.51	1.67	436	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

RESPONDENTS SPENDING LESS THAN 14 HOURS AT HOME ON WEEK DAYS (Q 42)

NUMBER OF RESPONDENTS = 561

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	39.93	59.89	.18	0.00	0.00	0.00	0.00	0.00	0.00	1.60	.49	561	
3	0.00	2.33	16.85	12.72	9.14	4.30	6.09	4.84	3.94	39.78	5.92	2.93	558	
4	0.00	28.70	41.00	22.82	4.81	2.14	0.00	0.00	.53	0.00	2.10	.95	558	
5	0.00	16.76	79.14	0.00	0.00	0.00	0.00	0.00	2.14	1.96	Z =	-15.80	538	BINOMIAL
6	0.00	8.02	72.55	0.00	0.00	0.00	0.00	0.00	10.34	9.09	Z =	-17.03	492	BINOMIAL
7	0.00	13.73	59.29	0.00	0.00	0.00	0.00	0.00	14.80	13.19	Z =	-12.44	404	BINOMIAL
8	0.00	5.70	33.87	0.00	0.00	0.00	0.00	0.00	32.26	28.16	Z =	-10.63	722	BINOMIAL
9	0.00	27.27	71.12	0.00	0.00	0.00	0.00	0.00	1.25	.36	Z =	-10.47	552	BINOMIAL
10	0.00	1.25	25.49	0.00	0.00	0.00	0.00	0.00	.53	72.73	Z =	-11.10	190	BINOMIAL
						NOISE								
11	0.00	63.10	31.37	5.53	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.73	561	BINOMIAL
12-A	0.00	0.00	7.53	47.74	33.90	10.45	0.00	0.00	0.00	.28	3.47	.78	353	
12-B	.57	0.00	10.40	47.73	30.11	10.23	0.00	0.00	.57	0.00	3.38	.85	175	
13	0.00	53.83	46.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.82	561	BINOMIAL
14	0.00	4.25	27.80	35.52	10.53	12.74	0.00	0.00	.39	.77	3.00	1.27	256	
15	0.00	18.15	14.29	12.74	25.87	24.71	0.00	0.00	3.09	1.16	3.26	1.46	248	
16	0.00	40.54	.39	2.70	50.97	1.16	0.00	0.00	3.09	1.16	2.71	1.49	248	
17	0.00	24.19	42.47	23.94	0.00	0.00	0.00	0.00	3.86	1.54	1.96	.74	245	
18	0.00	16.72	23.17	59.07	0.00	0.00	0.00	0.00	.39	1.16	2.44	.76	255	
						SOURCES								
19	49.42	11.58	14.29	10.81	7.72	4.63	0.00	0.00	0.00	1.54	1.29	1.57	255	
20	26.64	27.41	16.22	11.20	10.04	6.56	0.00	0.00	0.00	1.93	1.70	1.65	254	
21	22.78	21.24	17.76	13.13	15.06	8.49	0.00	0.00	0.00	1.54	2.02	1.63	255	
22	33.98	34.75	13.51	8.88	3.47	3.86	0.00	0.00	0.00	1.54	1.24	1.32	255	
23	35.52	31.66	15.44	3.86	5.79	5.02	0.00	0.00	0.00	.70	1.26	1.41	252	
24	54.83	18.53	9.27	3.86	8.11	3.47	0.00	0.00	0.00	1.93	1.00	1.46	254	
25	55.98	25.48	7.34	4.63	3.47	.39	0.00	0.00	0.00	2.70	.72	1.07	252	
26	11.97	15.44	16.99	20.08	22.78	4.11	0.00	0.00	0.00	4.63	2.53	1.52	247	
27	40.15	19.31	7.72	8.49	8.88	4.63	0.00	0.00	.39	10.42	1.33	1.59	231	
28	16.99	26.	15.83	14.67	11.20	4.63	0.00	0.00	0.00	10.42	1.90	1.47	232	
29	35.52	[illegible]	7.72	10.42	4.63	4.25	0.00	0.00	.39	10.81	1.27	1.46	230	
30	34.75	[illegible]	6.18	10.81	11.97	6.95	0.00	0.00	.39	10.81	1.64	1.73	230	
31	21.62	[illegible]	11.97	11.97	18.15	8.11	0.00	0.00	0.00	10.81	2.13	1.71	231	
32	50.19	[illegible]	7.72	6.56	1.54	3.09	0.00	0.00	0.00	10.42	.46	1.28	232	
33	39.00	.09	10.42	11.58	6.95	3.09	0.00	0.00	0.00	11.97	1.32	1.50	226	
34-A	58.70	.41	5.02	5.02	7.34	7.72	0.00	3.86	.39	6.95	1.35	2.08	240	
34-B	[illegible]	.00	18.53	1.16	3.86	1.54	0.00	0.00	0.00	74.90	2.54	.96	65	
						ACTIVITY								
35	61.49	3.09	8.11	11.20	10.04	5.02	0.00	0.00	0.00	1.16	1.20	1.69	256	
36	59.85	3.09	7.72	7.72	12.74	7.72	0.00	0.00	0.00	1.16	1.33	1.82	256	
37	37.07	3.09	9.65	8.88	22.01	17.37	0.00	0.00	0.00	1.93	2.28	2.01	254	
38	61.71	4.25	6.56	7.72	11.97	4.25	0.00	0.00	0.00	1.54	1.11	1.67	255	
39	44	3.47	7.72	11.20	14.29	7.72	0.00	0.00	0.00	1.16	1.50	1.84	256	
						INDIVIDUAL								
40	[illegible]	82.24	16.99	0.00	0.00	0.00	0.00	0.00	0.00	.77	Z =	6.55	257	BINOMIAL
41	[illegible]	67.38	32.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.23	561	BINOMIAL
42											10.98	1.34	561	
43											31.01	12.40	542	
44	0.00	38.86	36.19	23.35	0.00	0.00	0.00	0.00	1.25	.36	1.84	.74	552	
45	0.00	95.01	4.10	0.00	0.00	0.00	0.00	0.00	.71	.18	Z =	21.63	556	BINOMIAL
46											.78	1.23	543	
51	.58	7.12	0.00	6.92	2.50	8.27	7.69	13.04	15.96	37.85	6.86	2.50	520	
52	0.00	12.83	19.51	22.28	11.59	7.49	4.10	4.99	3.92	13.19	3.16	1.65	465	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF RESPONDENTS SPENDING (<14 - >20) HOURS AT HOME ON WEEK DAYS

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES
						NEIGHBORHOOD							
2	0.00	-40.95	40.77	.18	0.00	0.00	0.00	0.00	0.00	0.00	.41	.10	
3	0.00	.94	8.51	5.77	1.84	-3.12	.99	-.26	.08	-15.88	-1.03	.32	
4	0.00	-2.86	4.73	.81	-.95	-1.35	0.00	0.00	.08	-.46	-.02	-.03	
5	0.00	2.80	1.30	0.00	0.00	0.00	0.00	0.00	-.29	-3.81	Z =	2.03	BINOMIAL
6	0.00	1.65	5.91	0.00	0.00	0.00	0.00	0.00	-.44	-7.15	Z =	1.07	BINOMIAL
7	0.00	2.95	3.36	0.00	0.00	0.00	0.00	0.00	-1.59	-4.72	Z =	1.55	BINOMIAL
8	0.00	.39	6.10	0.00	0.00	0.00	0.00	0.00	.55	-7.04	Z =	-.58	BINOMIAL
9	0.00	8.15	-6.72	0.00	0.00	0.00	0.00	0.00	-1.48	.05	Z =	4.84	BINOMIAL
10	0.00	.49	7.99	0.00	0.00	0.00	0.00	0.00	.53	-8.61	Z =	-.92	BINOMIAL
						NOISE							
11	0.00	1.80	1.18	-2.67	0.00	0.00	0.00	0.00	0.00	-.30	Z =	-.62	BINOMIAL
12-A	-.74	0.00	.70	4.67	-4.72	1.05	0.00	0.00	-.50	-.46	-.02	-.04	
12-B	.57	0.00	-3.74	6.52	-5.56	1.64	0.00	0.00	.57	0.00	.00	.02	
13	0.00	-1.71	2.31	0.00	0.00	0.00	0.00	0.00	0.00	-.61	Z =	-1.19	BINOMIAL
14	0.00	-3.02	-2.65	-.76	-6.38	5.47	0.00	0.00	.39	.43	.13	.01	
15	0.00	-8.50	5.64	-3.87	7.53	-2.63	0.00	0.00	2.05	-.21	.14	-.11	
16	0.00	5.69	-.65	-1.45	-5.44	.47	0.00	0.00	1.70	-.21	-.16	.05	
17	0.00	-9.53	1.99	3.52	0.00	0.00	0.00	0.00	3.86	.16	.13	-.01	
18	0.00	-11.12	1.17	9.94	0.00	0.00	0.00	0.00	.39	-.57	.21	-.10	
						SOURCES							
19	-11.13	.16	5.54	4.24	-1.62	2.56	0.00	0.00	0.00	.16	.31	.11	
20	-8.65	1.46	3.41	1.16	-1.03	2.76	0.00	0.00	0.00	.49	.23	.03	
21	-2.11	2.55	2.88	4.62	-7.76	-1.19	0.00	0.00	0.00	.85	-.13	-.12	
22	-.97	.84	-2.75	.92	-2.41	3.86	0.00	0.00	-.35	.45	.08	.15	
23	-7.73	-.52	4.72	.05	-.09	3.29	0.00	0.00	-1.04	1.32	.26	.17	
24	-11.96	4.69	2.35	1.44	2.57	.36	0.00	0.00	0.00	.55	.27	.12	
25	1.41	-5.66	1.11	2.21	.71	-.65	0.00	0.00	0.00	.97	.04	.09	
26	-6.17	-1.51	.73	4.51	2.02	2.57	0.00	0.00	-1.94	-.99	.32	-.06	
27	.92	5.91	2.64	1.30	-3.58	.46	0.00	0.00	-.31	-8.81	-.03	-.11	
28	2.80	.65	.26	3.95	-.91	1.17	0.00	0.00	0.00	-7.91	.00	.02	
29	-1.50	4.46	-1.27	4.20	.83	1.48	0.00	0.00	.04	-8.22	.18	.13	
30	4.99	.85	-2.47	1.47	2.28	.72	0.00	0.00	.04	-7.87	.02	.05	
31	7.78	6.99	-.43	.20	-4.69	-2.27	0.00	0.00	0.30	-7.18	-.43	.03	
32	.71	3.51	3.92	3.10	-3.30	-.23	0.00	0.00	0.00	-7.91	.01	-.12	
33	5.43	-1.35	1.08	1.55	.38	-.03	0.00	0.00	0.00	-7.06	-.03	.03	
34-A	-8.83	1.95	1.56	1.91	1.11	4.61	0.00	0.00	2.82	.39	-5.91	.58	.40
34-B	0.00	0.00	5.04	.81	.09	1.54	0.00	0.00	0.00	-7.45	.09	.14	
						ACTIVITY							
35	-7.81	-.03	2.92	4.28	-.34	1.91	0.00	0.00	0.00	-.92	.26	.11	
36	-4.86	-.03	1.15	2.19	-.63	2.19	0.00	0.00	0.00	-1.26	.21	.09	
37	-9.30	.32	1.69	1.96	.21	5.26	0.00	0.00	0.00	-.15	.37	.01	
38	-6.54	.79	.68	4.26	.55	1.13	0.00	0.00	0.00	-.94	.22	.10	
39	.11	-.33	-.58	.82	-.25	1.49	0.00	0.00	-.35	-.92	.06	.04	
						INDIVIDUAL							
40	0.00	3.15	-3.08	0.00	0.00	0.00	0.00	0.00	0.00	-.27	Z =	.64	BINOMIAL
41	0.00	-4.24	4.45	0.00	0.00	0.00	0.00	0.00	0.00	-.61	Z =	-3.05	BINOMIAL
42											-12.65	1.91	
43											-11.93	3.86	
44	0.00	8.05	-6.15	-.62	0.00	0.00	0.00	0.00	-1.03	-.25	-.09	.03	
45	0.00	.78	-.60	0.00	0.00	0.00	0.00	0.00	-.05	-.13	Z =	-1.43	BINOMIAL
46											-.25	-.40	
51	-4.21	-6.01	-.35	-.17	-1.58	-1.46	-1.88	-1.46	.83	16.25	1.11	-.43	
52	0.00	-13.27	8.23	8.47	4.91	4.00	2.58	1.43	-5.33	-11.39	.66	-.02	

BOLT BERANEK AND NEWMAN INC.

EPA 24 SITE SURVEY

QUESTION 44 - CATEGORY 3 (ALL SITES)

NUMBER OF RESPONDENTS = 496

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	67.74	32.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	.47	496	
3	0.00	1.43	14.52	13.09	11.25	4.91	7.16	5.32	3.07	39.26	5.97	2.84	489	
4	0.00	34.88	37.70	18.95	6.25	1.61	0.00	0.00	.60	0.00	2.01	.97	493	
5	0.00	14.52	79.84	0.00	0.00	0.00	0.00	0.00	1.61	3.83	Z = -14.98		468	BINOMIAL
6	0.00	8.47	72.38	0.00	0.00	0.00	0.00	0.00	9.27	9.88	Z = -15.33		461	BINOMIAL
7	0.00	12.70	65.52	0.00	0.00	0.00	0.00	0.00	13.71	8.06	Z = -13.38		388	BINOMIAL
8	0.00	7.46	40.12	0.00	0.00	0.00	0.00	0.00	29.23	23.19	Z = -10.55		236	BINOMIAL
9	0.00	24.19	74.19	0.00	0.00	0.00	0.00	0.00	1.61	0.00	Z = -11.23		488	BINOMIAL
10	0.00	1.81	21.77	0.00	0.00	0.00	0.00	0.00	.40	76.01	Z = -9.15		117	BINOMIAL
						NOISE								
11	0.00	62.90	31.85	5.24	0.00	0.00	0.00	0.00	0.00	0.00	Z = 7.10		496	BINOMIAL
12-A	.64	0.00	9.62	39.10	40.71	8.97	0.00	0.00	.32	.64	3.48	.84	309	
12-B	0.00	0.00	10.13	43.67	34.18	12.03	0.00	0.00	0.00	0.00	3.48	.84	158	
13	0.00	47.98	51.61	0.00	0.00	0.00	0.00	0.00	0.00	.40	Z = -.81		494	BINOMIAL
14	0.00	5.86	26.17	28.91	25.00	12.89	0.00	0.00	0.00	1.17	3.13	1.12	253	
15	0.00	22.27	13.28	16.41	21.09	21.83	0.00	0.00	1.17	1.95	3.11	1.56	248	
16	0.00	34.77	2.34	4.30	52.34	1.56	0.00	0.00	2.34	2.34	2.83	1.44	244	
17	0.00	23.44	41.80	30.86	0.00	0.00	0.00	0.00	1.95	1.95	2.08	.75	246	
18	0.00	14.45	28.12	55.47	0.00	0.00	0.00	0.00	0.00	1.95	2.42	.73	251	
						SOURCES								
19	49.61	8.20	12.11	7.42	12.50	7.81	0.00	0.00	0.00	2.34	1.47	1.77	250	
20	28.12	20.31	16.80	16.41	10.94	5.47	0.00	0.00	0.00	1.95	1.78	1.56	251	
21	21.87	21.48	14.45	12.11	19.92	8.20	0.00	0.00	0.00	1.95	2.12	1.67	251	
22	29.30	31.25	14.84	11.72	8.59	2.34	0.00	0.00	0.00	1.95	1.45	1.38	251	
23	37.11	28.91	11.33	7.42	6.64	6.25	0.00	0.00	.39	1.95	1.35	1.52	250	
24	55.86	11.33	10.16	5.47	6.59	6.25	0.00	0.00	0.00	2.34	1.16	1.64	250	
25	55.47	21.09	8.59	5.47	5.08	1.56	0.00	0.00	.39	2.34	.86	1.26	249	
26	14.06	10.94	16.02	16.80	23.05	10.94	0.00	0.00	1.17	7.03	2.62	1.62	236	
27	37.89	14.06	7.81	7.03	12.89	7.81	0.00	0.00	0.00	12.50	1.62	1.79	224	
28	15.62	18.75	18.36	15.62	12.89	6.64	0.00	0.00	0.00	12.11	2.13	1.53	225	
29	36.72	17.97	12.11	10.55	5.08	5.08	0.00	0.00	0.00	12.50	1.37	1.54	224	
30	30.08	14.06	7.03	9.77	16.80	10.16	0.00	0.00	0.00	12.11	2.00	1.86	225	
31	14.06	13.28	13.28	14.45	19.92	13.28	0.00	0.00	0.00	11.72	2.58	1.69	226	
32	50.00	14.84	5.86	7.81	3.91	4.69	0.00	0.00	0.00	12.89	1.07	1.50	223	
33	34.77	14.06	8.98	15.23	9.38	5.08	0.00	0.00	0.00	12.50	1.61	1.65	224	
34-A	58.98	3.91	3.13	5.08	5.86	7.42	0.00	2.34	.39	12.89	1.18	1.97	222	
34-B	0.00	0.00	18.75	1.95	3.13	1.17	0.00	0.00	0.00	75.00	2.47	.88	64	
						ACTIVITY								
35	52.34	1.95	5.77	10.55	15.23	8.20	0.00	0.00	0.00	1.95	1.58	1.86	251	
36	51.17	3.91	7.03	8.20	16.02	11.33	0.00	0.00	0.00	2.34	1.67	1.96	250	
37	35.55	3.13	8.59	8.59	20.31	21.48	0.00	0.00	0.00	2.34	2.40	2.06	253	
38	57.81	3.13	8.59	6.64	15.62	6.25	0.00	0.00	0.00	1.95	1.37	1.81	251	
39	44.14	2.34	8.98	13.28	18.75	9.77	0.00	0.00	.39	2.34	1.89	1.91	249	
						INDIVIDUAL								
40	0.00	73.44	24.61	0.00	0.00	0.00	0.00	0.00	0.00	1.95	Z = 4.93		251	BINOMIAL
41	0.00	67.94	31.65	0.00	0.00	0.00	0.00	0.00	.20	.20	Z = 8.10		494	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.14	5.17	496	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.01	11.09	473	
44	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	496	
45	0.00	88.51	10.28	0.00	0.00	0.00	0.00	0.00	1.01	.20	Z = 17.59		496	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.07	1.57	404	
51	.88	7.25	.44	6.15	2.43	9.01	5.71	12.75	17.80	37.58	6.85	2.54	455	
52	0.00	15.93	14.92	18.75	10.69	6.65	3.23	5.44	4.84	19.56	3.11	1.75	375	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 44 = ALL CATEGORIES EXCEPT 3 (ALL SITES)

NUMBER OF RESPONDENTS = 1541

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.87	39.07	.06	0.00	0.00	0.00	0.00	0.00	0.00	1.39	.49	1541	
3	0.00	1.83	11.38	10.33	7.65	6.47	5.34	4.71	4.51	46.76	6.47	2.79	1529	
4	0.00	28.62	39.65	24.61	4.73	2.34	0.00	0.00	.32	.32	2.12	.64	1531	
5	0.00	13.76	79.95	0.00	0.00	0.00	0.00	0.00	2.40	3.89	Z = -26.04		1444	BINOMIAL
6	0.00	7.07	69.50	0.00	0.00	0.00	0.00	0.00	10.40	13.02	Z = -28.30		1180	BINOMIAL
7	0.00	12.01	56.33	0.00	0.00	0.00	0.00	0.00	15.06	16.61	Z = -29.55		1053	BINOMIAL
8	0.00	5.33	29.20	0.00	0.00	0.00	0.00	0.00	31.93	33.55	Z = -15.99		832	BINOMIAL
9	0.00	23.04	74.82	0.00	0.00	0.00	0.00	0.00	1.82	.32	Z = -20.55		1508	BINOMIAL
10	0.00	.97	21.41	0.00	0.00	0.00	0.00	0.00	.39	77.22	Z = -16.65		345	BINOMIAL
						NOISE								
11	0.00	61.13	31.21	7.40	0.00	0.00	0.00	0.00	.13	.13	Z = 12.22		1537	BINOMIAL
12-A	.21	0.00	6.16	50.32	34.29	8.28	0.00	0.00	.21	.53	3.44	.75	935	
12-B	.21	0.00	13.72	45.11	31.81	8.94	0.00	0.00	.21	0.00	3.39	.84	480	
13	0.00	55.03	44.78	0.00	0.00	0.00	0.00	0.00	0.00	.19	Z = 4.00		1538	BINOMIAL
14	0.00	5.51	30.00	36.09	19.57	8.26	0.00	0.00	.29	.29	2.96	1.07	686	
15	0.00	22.17	3.72	14.78	21.74	27.83	0.00	0.00	2.17	.58	3.23	1.53	671	
16	0.00	37.97	.29	3.48	54.06	.87	0.00	0.00	2.75	.58	2.79	1.44	647	
17	0.00	34.20	40.29	22.61	0.00	0.00	0.00	0.00	2.32	.58	1.88	.76	670	
18	0.00	23.48	21.45	53.77	0.00	0.00	0.00	0.00	.58	.72	2.31	.89	691	
						SOURCES								
19	55.36	13.62	11.01	8.84	7.81	2.61	0.00	0.00	0.00	.72	1.67	1.47	555	
20	29.71	28.76	15.80	9.71	10.58	4.78	0.00	0.00	0.00	.72	1.97	1.58	555	
21	25.80	21.01	16.81	10.72	16.52	8.41	0.00	0.00	0.00	.72	1.96	1.67	695	
22	34.78	35.07	14.06	8.55	5.22	1.45	0.00	0.00	.14	.72	1.18	1.23	684	
23	42.61	31.59	11.45	4.66	6.09	2.46	0.00	0.00	.29	1.45	1.35	1.29	678	
24	61.74	17.68	6.38	4.35	6.38	2.17	0.00	0.00	0.00	1.30	.81	1.33	691	
25	56.52	28.70	6.09	4.20	2.32	.58	0.00	0.00	0.00	1.59	.67	1.00	679	
26	14.20	16.67	18.70	19.42	20.72	7.54	0.00	0.00	0.00	2.75	2.39	1.55	671	
27	41.59	16.09	6.67	7.83	9.86	3.33	0.00	0.00	.87	13.77	1.28	1.59	569	
28	13.77	28.12	13.77	15.65	12.17	3.04	0.00	0.00	0.00	13.48	1.92	1.42	597	
29	35.65	25.22	8.99	8.55	5.07	2.32	0.00	0.00	.29	13.91	1.17	1.36	592	
30	31.59	19.57	8.70	11.59	8.55	5.65	0.00	0.00	.29	14.06	1.67	1.63	591	
31	19.57	15.22	12.46	12.90	17.97	6.41	0.00	0.00	0.00	13.48	2.23	1.70	597	
32	47.97	21.01	5.65	4.93	4.35	2.61	0.00	0.00	0.00	13.48	.98	1.33	597	
33	35.65	17.83	11.01	11.88	6.96	2.61	0.00	0.00	0.00	14.06	1.35	1.48	593	
34-A	62.61	4.20	4.64	4.78	6.67	5.07	0.00	3.04	0.00	8.99	1.11	1.92	628	
34-B	0.00	0.00	16.23	1.30	3.91	.56	0.00	0.00	0.00	77.97	2.49	.87	152	
						ACTIVITY								
35	63.62	3.33	7.68	9.57	10.72	4.06	0.00	0.00	0.00	1.01	1.12	1.65	683	
36	61.30	3.33	9.57	7.39	11.01	6.23	0.00	0.00	0.00	1.16	1.21	1.73	682	
37	41.30	3.48	10.00	9.13	21.88	12.75	0.00	0.00	0.00	1.45	2.05	1.94	680	
38	65.65	4.78	5.13	6.38	9.86	2.90	0.00	0.00	0.00	1.30	.97	1.56	681	
39	55.36	3.48	6.70	11.30	12.61	7.25	0.00	0.00	.14	1.16	1.43	1.80	681	
						INDIVIDUAL								
40	0.00	82.03	17.39	0.00	0.00	0.00	0.00	0.00	0.00	.58	Z = 6.48		686	BINOMIAL
41	0.00	70.47	29.14	0.00	0.00	0.00	0.00	0.00	.06	.32	Z = 16.26		1535	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.07	5.21	1507	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.78	11.36	1477	
44	0.00	44.39	52.69	0.00	0.00	0.00	0.00	0.00	2.14	.78	1.54	.50	1496	
45	0.00	95.20	3.96	0.00	0.00	0.00	0.00	0.00	.65	.19	Z = 35.97		1528	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.92	1.43	1520	
51	2.54	10.22	.07	6.88	3.91	8.99	9.20	13.70	15.58	23.91	6.33	2.98	1380	
52	0.00	18.49	17.00	18.75	10.53	5.52	2.66	3.44	6.62	16.94	2.86	1.62	1178	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 44 (CATEGORY 3 = THE REST) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	6.87	-6.81	-.06	0.00	0.00	0.00	0.00	0.00	0.00	-.07	-.02		
3	0.00	-.40	3.14	2.75	3.60	-1.57	.61	.61	-1.45	-7.50	-.49	.05		
4	0.00	6.26	-1.95	5.06	1.51	-.72	0.00	0.00	.28	-.32	-.11	.01		
5	0.00	.76	-.11	0.00	0.00	0.00	0.00	0.00	-.59	-.06	Z =	11.87	BINOMIAL	
6	0.00	1.39	2.88	0.00	0.00	0.00	0.00	0.00	-1.61	-2.65	Z =	12.17	BINOMIAL	
7	0.00	.70	9.20	0.00	0.00	0.00	0.00	0.00	-1.35	-8.55	Z =	7.75	BINOMIAL	
8	0.00	2.14	10.92	0.00	0.00	0.00	0.00	0.00	-2.69	-10.38	Z =	5.41	BINOMIAL	
9	0.00	1.16	-.63	0.00	0.00	0.00	0.00	0.00	-.20	-.32	Z =	9.32	BINOMIAL	
10	0.00	.84	.36	0.00	0.00	0.00	0.00	0.00	.01	-1.21	Z =	7.81	BINOMIAL	
						NOISE								
11	0.00	1.77	.64	-2.15	0.00	0.00	0.00	0.00	-.13	-.13	Z =	-5.12	BINOMIAL	
12-A	.43	0.00	3.46	-11.22	6.42	-.69	0.00	0.00	.11	.11	.03	.09		
12-B	-.21	0.00	-3.59	-1.44	2.37	1.09	0.00	0.00	-.21	0.00	.13	-.01		
13	0.00	-7.05	6.84	0.00	0.00	0.00	0.00	0.00	0.00	.21	Z =	-4.84	BINOMIAL	
14	0.00	.35	-3.83	-7.18	5.43	4.65	0.00	0.00	-.29	.28	.18	.18		
15	0.00	.09	2.56	1.62	-.55	-4.00	0.00	0.00	-1.00	1.37	-.12	-.03		
16	0.00	-3.21	2.05	.82	-1.71	.69	0.00	0.00	-.41	1.76	.04	-.02		
17	0.00	-10.77	1.51	8.25	0.00	0.00	0.00	0.00	-.37	1.37	.20	-.01		
18	0.00	-9.03	6.68	1.70	0.00	0.00	0.00	0.00	-.58	1.23	.11	-.10		
						SOURCES								
19	-5.75	-5.42	1.00	-1.42	4.67	5.20	0.00	0.00	0.00	1.62	.40	.31		
20	-1.59	-8.38	1.00	6.70	.36	.69	0.00	0.00	0.00	1.23	.21	.05		
21	-3.92	.67	-2.36	1.38	3.40	-.20	0.00	0.00	0.00	1.23	.15	.00		
22	-5.49	-3.82	.79	3.17	3.38	.89	0.00	0.00	-.14	1.23	.27	-.15		
23	-5.50	-2.69	-.12	1.36	.55	1.79	0.00	0.00	.10	.50	.30	.23		
24	-5.88	-6.35	3.78	1.12	2.32	4.08	0.00	0.00	0.00	1.04	.35	.31		
25	-1.05	-7.60	2.51	1.27	2.76	.98	0.00	0.00	.39	.75	.18	.24		
26	-.14	-5.73	-2.68	-2.62	2.32	3.40	0.00	0.00	1.17	4.28	.22	.08		
27	-3.70	-2.02	1.15	-.79	3.04	4.48	0.00	0.00	-.67	-1.27	.34	.21		
28	-1.86	-9.37	4.59	-.03	.72	3.60	0.00	0.00	0.00	-1.37	-.20	.11		
29	1.07	-7.25	3.12	2.00	.01	2.76	0.00	0.00	-.29	-1.41	.19	.17		
30	-1.52	-5.50	-1.66	-1.83	8.25	4.60	0.00	0.00	-.29	-1.95	.41	.23		
31	-5.50	-1.94	.82	1.55	1.95	4.88	0.00	0.00	0.00	-1.76	.37	-.01		
32	2.03	-6.17	.21	2.68	-.44	2.08	0.00	0.00	0.00	-.59	.13	.17		
33	-.89	-3.76	2.03	3.35	2.42	2.47	0.00	0.00	0.00	-1.56	.25	.17		
34-A	-3.62	-.30	-1.51	.30	-.81	2.35	0.00	-.70	.39	3.91	.67	.05		
34-B	0.00	0.00	2.52	.65	-.79	.59	0.00	0.00	0.00	-2.97	-.02	.01		
						ACTIVITY								
35	-11.28	-1.38	2.08	.66	4.81	4.15	0.00	0.00	0.00	.94	.46	.21		
36	-10.13	.57	-2.53	.81	5.00	5.10	0.00	0.00	0.00	1.18	.44	.23		
37	-5.76	-.35	-1.41	-.54	-1.57	8.73	0.00	0.00	0.00	.69	.35	.09		
38	-7.84	-1.66	-.54	.26	5.77	3.35	0.00	0.00	0.00	.65	.39	.26		
39	-11.22	-1.13	.29	1.98	6.14	2.52	0.00	0.00	.25	1.18	.46	.11		
						INDIVIDUAL								
40	0.00	-8.59	7.22	0.00	0.00	0.00	0.00	0.00	0.00	1.37	Z =	-1.55	BINOMIAL	
41	0.00	-2.53	2.52	0.00	0.00	0.00	0.00	0.00	.14	-.12	Z =	-2.16	BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.07	-.03		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.22	-.27		
44	0.00	-44.39	-52.69	100.00	0.00	0.00	0.00	0.00	-2.14	-.78	1.44	-.50		
45	0.00	-6.69	6.32	0.00	0.00	0.00	0.00	0.00	.36	.01	Z =	18.44	BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.16	.14		
51	-1.66	-2.96	.37	.73	-1.50	.03	-3.49	-.95	2.22	8.67	.53	-.45		
52	0.00	-2.57	-2.68	-.00	.11	1.14	.57	2.00	-1.78	2.62	.29	.13		

QUESTION 45 - CATEGORIES 2 AND 3 (ALL SITES)

NUMBER OF RESPONDENTS = 112

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	66.07	33.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	.47	112	
3	0.00	1.83	21.10	10.09	11.01	4.26	7.34	9.17	4.59	26.61	5.44	2.76	109	
4	0.00	21.43	25.89	33.93	10.71	7.14	0.00	0.00	.89	0.00	2.56	1.15	111	
5	0.00	3.57	83.04	0.00	0.00	0.00	0.00	0.00	1.79	11.61	Z =	-9.64	97	BINOMIAL
6	0.00	3.57	66.07	0.00	0.00	0.00	0.00	0.00	10.71	19.64	Z =	-7.93	78	BINOMIAL
7	0.00	16.07	76.79	0.00	0.00	0.00	0.00	0.00	4.46	2.68	Z =	-6.67	104	BINOMIAL
8	0.00	14.29	52.68	0.00	0.00	0.00	0.00	0.00	15.18	17.86	Z =	-4.97	75	BINOMIAL
9	0.00	39.29	54.29	0.00	0.00	0.00	0.00	0.00	4.46	0.00	Z =	-1.64	137	BINOMIAL
10	0.00	7.14	30.36	0.00	0.00	0.00	0.00	0.00	.89	61.61	Z =	-4.01	42	BINOMIAL
						NOISE								
11	0.00	23.21	71.43	5.36	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-5.24	112	BINOMIAL
12-A	0.00	0.00	11.54	46.15	38.46	0.00	0.00	0.00	3.85	0.00	3.28	.64	25	
12-B	0.00	0.00	0.00	26.25	40.00	28.75	0.00	0.00	0.00	0.00	3.92	.86	80	
13	0.00	8.04	91.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-8.68	112	BINOMIAL
14	0.00	.97	5.83	27.18	40.78	24.27	0.00	0.00	0.00	.97	3.82	.90	103	
15	0.00	11.65	17.48	21.36	17.48	28.16	0.00	0.00	2.91	.97	3.34	1.38	99	
16	0.00	28.16	1.94	7.77	58.25	.97	0.00	0.00	1.94	.97	3.02	1.35	100	
17	0.00	28.16	37.86	32.04	0.00	0.00	0.00	0.00	1.94	0.00	2.04	.78	101	
18	0.00	21.36	28.21	51.46	0.00	0.00	0.00	0.00	0.00	.97	2.36	.80	102	
19	47.57	5.83	8.74	8.74	17.48	10.68	0.00	0.00	0.00	.97	1.75	1.92	102	
						SOURCES								
20	19.42	22.33	8.74	18.45	20.39	10.68	0.00	0.00	0.00	0.00	2.30	1.69	103	
21	24.27	11.65	12.62	13.59	26.27	11.65	0.00	0.00	0.00	1.94	2.54	1.78	101	
22	35.92	20.39	10.68	10.68	10.68	4.85	0.00	0.00	0.00	.97	1.54	1.56	102	
23	45.63	25.24	5.83	3.88	11.65	4.80	0.00	0.00	0.00	.97	1.39	1.65	102	
24	45.63	18.45	5.83	5.83	13.59	6.74	0.00	0.00	0.00	1.94	1.49	1.79	101	
25	61.17	15.53	10.68	2.91	7.77	.97	0.00	0.00	0.00	.97	.82	1.29	102	
26	8.74	4.85	10.68	10.68	35.92	26.24	3.00	0.00	0.00	3.88	3.41	1.54	99	
27	29.13	9.71	9.71	12.62	13.59	14.56	0.00	0.00	.97	9.71	2.17	1.90	92	
28	9.60	13.59	13.59	15.53	27.18	13.59	0.00	0.00	0.00	9.71	2.92	1.53	93	
29	27.18	14.56	10.68	13.59	13.59	10.68	0.00	0.00	0.00	9.71	2.04	1.76	93	
30	18.45	14.56	4.85	7.77	24.27	20.39	0.00	0.00	0.00	9.71	2.73	1.91	93	
31	13.59	12.62	8.74	10.68	23.30	21.36	0.00	0.00	0.00	9.71	2.96	1.79	93	
32	43.69	16.50	6.80	7.77	4.85	10.68	0.00	0.00	0.00	9.71	1.49	1.77	93	
33	23.30	9.71	.77	14.56	23.30	11.65	0.00	0.00	0.00	9.71	2.44	1.82	93	
34-A	53.40	2.91	1.94	2.91	7.77	14.56	0.00	4.85	0.00	11.65	1.74	2.37	91	
34-B	0.00	0.00	20.39	1.94	7.77	0.00	0.00	0.00	0.00	69.90	2.58	.87	91	
35	25.92	2.91	8.74	13.59	19.42	18.45	0.00	0.00	0.00	.97	2.33	1.99	102	
						ACTIVITY								
36	31.07	3.88	6.80	9.71	21.36	26.21	0.00	0.00	0.00	.97	2.66	2.05	102	
37	13.59	.97	2.91	6.80	34.95	39.81	0.00	0.00	0.00	.97	3.76	1.67	102	
38	32.04	5.83	7.77	13.59	23.30	16.50	0.00	0.00	0.00	.97	2.46	1.94	102	
39	26.21	0.00	2.91	13.59	29.13	27.18	0.00	0.00	0.00	.97	3.02	1.95	102	
40	0.00	63.11	36.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.62	103	BINOMIAL
						INDIVIDUAL								
41	0.00	69.64	30.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.16	112	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.37	4.67	112	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.05	10.35	109	
44	0.00	20.54	31.25	45.54	0.00	0.00	0.00	0.00	.89	1.79	2.24	.78	109	
45	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-10.58	112	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.56	107	
51	3.00	9.00	0.00	10.00	4.00	8.00	9.00	14.00	10.00	32.00	6.61	4.03	100	
52	0.00	30.36	13.39	17.86	15.18	1.79	2.68	6.25	5.36	7.14	2.74	1.77	98	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

QUESTION 45 - ALL CATEGORIES EXCEPT 2 AND 3 (ALL SITES)

NUMBER OF RESPONDENTS = 1925

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.34	37.61	.05	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	1925	
3	0.00	1.73	11.63	11.05	8.36	5.97	6.50	4.61	4.14	45.99	6.40	2.61	1909	
4	0.00	30.65	39.95	22.13	4.78	1.87	0.00	0.00	.36	.26	2.07	.94	1913	
5	0.00	14.55	79.74	0.00	0.00	0.00	0.00	0.00	2.29	3.43	Z = -29.46		1015	BINOMIAL
6	0.00	7.64	70.44	0.00	0.00	0.00	0.00	0.00	10.49	11.43	Z = -31.19		1503	BINOMIAL
7	0.00	11.95	57.51	0.00	0.00	0.00	0.00	0.00	15.32	15.22	Z = -23.98		1337	BINOMIAL
8	0.00	5.35	30.65	0.00	0.00	0.00	0.00	0.00	32.21	31.79	Z = -16.50		693	BINOMIAL
9	0.00	22.34	75.74	0.00	0.00	0.00	0.00	0.00	1.61	.26	Z = -23.69		1089	BINOMIAL
10	0.00	.83	20.99	0.00	0.00	0.00	0.00	0.00	.36	77.82	Z = -18.93		420	BINOMIAL
						NOISE								
11	0.00	03.79	29.04	0.96	0.00	0.00	0.00	0.00	.10	.10	Z = 15.83		1921	BINOMIAL
12-A	.33	0.30	0.92	47.56	35.83	8.63	0.00	0.00	.16	.57	3.46	.78	1219	
12-B	.16	0.00	13.95	47.41	31.31	6.48	0.00	0.00	.18	0.00	3.31	.81	558	
13	0.00	55.95	43.79	0.00	0.00	0.00	0.00	0.00	0.00	.26	Z = 5.34		1920	BINOMIAL
14	0.00	6.17	31.79	34.99	16.62	7.71	0.00	0.00	.24	.47	2.90	1.03	837	
15	0.00	25.49	10.68	14.47	22.06	26.57	0.00	0.00	1.78	.95	3.18	1.54	820	
16	0.00	36.20	.71	3.20	53.02	1.07	0.00	0.00	2.73	1.07	2.77	1.46	811	
17	0.00	31.67	41.04	23.96	0.00	0.00	0.00	0.00	2.25	1.07	1.92	.75	815	
18	0.00	21.00	22.69	54.67	0.00	0.00	0.00	0.00	.47	1.07	2.34	.81	830	
19	54.57	12.93	11.63	8.42	8.07	3.20	0.00	0.00	0.00	1.19	1.11	1.50	833	
						SOURCES								
20	30.49	26.93	16.96	10.68	9.49	4.27	0.00	0.00	0.00	1.19	1.54	1.48	833	
21	24.79	22.30	16.61	10.79	16.61	7.95	0.00	0.00	0.00	.95	1.96	1.65	835	
22	32.98	35.71	14.00	9.25	5.53	1.30	0.00	0.00	.12	1.07	1.22	1.23	833	
23	40.57	31.55	12.10	5.10	5.58	3.08	0.00	0.00	.36	1.66	1.11	1.32	826	
24	61.92	15.66	7.59	4.51	6.17	2.61	0.00	0.00	0.00	1.54	.83	1.36	830	
25	55.63	28.00	6.29	4.74	2.49	.63	0.00	0.00	.12	1.90	.76	1.05	826	
26	14.83	16.37	18.86	19.69	19.57	4.41	0.00	0.00	.36	3.91	2.33	1.52	807	
27	41.99	16.25	6.64	7.00	10.32	3.32	0.00	0.00	.59	13.88	1.27	1.59	721	
28	15.18	27.06	15.18	15.66	10.56	2.85	0.00	0.00	0.00	13.52	1.86	1.40	729	
29	37.01	24.32	9.73	8.54	4.03	2.14	0.00	0.00	.24	14.00	1.12	1.32	723	
30	32.74	18.51	8.66	11.51	9.13	5.22	0.00	0.00	.24	14.00	1.59	1.63	723	
31	18.62	14.95	13.17	13.64	17.91	8.30	0.00	0.00	0.00	13.40	2.26	1.68	735	
32	09.11	19.69	5.58	5.46	4.15	2.25	0.00	0.00	0.00	13.76	.87	1.31	727	
33	36.89	17.67	10.79	12.57	5.69	2.25	0.00	0.00	0.00	14.12	1.29	1.44	724	
34-A	62.63	4.27	4.51	5.10	6.29	4.63	0.00	2.61	.12	9.85	1.06	1.86	759	
34-B	0.00	0.00	16.49	1.42	3.20	.63	0.00	0.00	0.00	78.05	2.47	.88	185	
35	63.58	2.97	8.19	9.37	11.03	1.56	0.00	0.00	0.00	1.30	1.11	1.64	832	
						ACTIVITY								
36	61.92	3.44	9.13	7.35	11.27	5.34	0.00	0.00	0.00	1.54	1.17	1.73	830	
37	42.96	3.68	19.44	9.25	19.81	12.10	0.00	0.00	0.00	1.78	1.94	1.95	828	
38	67.38	4.15	9.13	5.58	9.96	2.25	0.00	0.00	0.00	1.54	.92	1.51	830	
39	55.52	3.56	9.49	11.63	12.46	5.58	0.00	0.00	.24	1.54	1.38	1.74	828	
40	0.00	81.73	17.20	0.00	0.00	0.00	0.00	0.00	0.00	1.07	Z = 6.49		834	BINOMIAL
						INDIVIDUAL								
41	0.00	69.87	29.71	0.00	0.00	0.00	0.00	0.00	.10	.31	Z = 17.66		1917	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.07	5.23	1885	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.90	11.34	1841	
44	0.00	34.34	40.36	23.12	0.00	0.00	0.00	0.00	1.66	.52	1.89	.76	1883	
45	0.00	99.01	0.00	0.00	0.00	0.00	0.00	0.00	.78	.21	Z = 43.66		1906	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.95	1.46	1877	
51	2.07	9.51	.17	6.51	3.52	9.05	8.30	13.54	16.31	31.01	6.45	2.81	1735	
52	0.00	17.14	16.68	18.81	10.34	6.03	2.61	3.79	6.23	18.18	2.93	1.65	1455	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF QUESTION 45 (CATEGORIES 2 AND 3 = THE REST) FOR ALL SITES

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	3.73	-3.68	-.05	0.00	0.00	0.00	0.00	0.00	0.00	-.04	-.01		
3	0.00	.11	9.47	-.96	2.63	2.29	.84	4.56	.45	-19.39	-.96	-.05		
4	0.00	-9.22	-14.06	11.80	5.94	5.27	0.00	0.00	.53	-.26	.49	.21		
5	0.00	-10.97	3.30	9.00	0.00	0.00	0.00	0.00	-.50	6.18	Z = 20.42		BINOMIAL	
6	0.00	-4.06	-4.37	0.00	0.00	0.00	0.00	0.00	.22	8.21	Z = 23.26		BINOMIAL	
7	0.00	4.12	19.28	0.00	0.00	0.00	0.00	0.00	-10.86	-12.54	Z = 17.32		BINOMIAL	
8	0.00	8.94	22.03	0.00	0.00	0.00	0.00	0.00	-17.03	-13.94	Z = 13.53		BINOMIAL	
9	0.00	16.98	-19.49	0.00	0.00	0.00	0.00	0.00	2.85	-.26	Z = 21.79		BINOMIAL	
10	0.00	6.31	9.37	0.00	0.00	0.00	0.00	0.00	.53	-16.21	Z = 14.92		BINOMIAL	
						NOISE								
11	0.00	-40.58	43.39	-1.60	0.00	0.00	0.00	0.00	-.10	-.10	Z = -21.07		BINOMIAL	
12-A	-.33	0.00	4.62	-1.40	2.63	-8.63	0.00	0.00	3.68	-.57	-.18	-.11		
12-B	-.18	0.00	-8.95	-21.16	8.69	21.77	0.00	0.00	-.18	0.00	.62	.05		
13	0.00	-47.91	48.17	0.00	0.00	0.00	0.00	0.00	0.00	-.26	Z = -14.22		BINOMIAL	
14	0.00	-5.20	-25.97	-7.81	22.15	16.56	0.00	0.00	-.24	.50	.93	-.13		
15	0.00	-11.84	6.60	6.69	-4.56	1.58	0.00	0.00	1.13	.02	.16	-.16		
16	0.00	-10.04	1.23	4.56	5.23	-.10	0.00	0.00	-.79	-.10	.26	-.11		
17	0.00	-3.52	-3.18	8.08	0.00	0.00	0.00	0.00	-.31	-1.07	.12	.03		
18	0.00	.36	3.32	-3.11	0.00	0.00	0.00	0.00	-.47	-.10	-.04	-.01		
19	-6.99	-7.10	-2.89	.32	9.41	7.48	0.00	0.00	0.00	-.22	.63	.42		
						SOURCES								
20	-11.07	-4.60	-8.23	7.77	13.90	6.41	0.00	0.00	0.00	-1.19	.76	.22		
21	-.52	-10.65	-3.99	2.80	7.66	3.70	0.00	0.00	0.00	.99	.42	.13		
22	2.94	-15.32	2.51	1.43	5.10	3.55	0.00	0.00	-.12	-.10	.32	.32		
23	5.06	-6.31	-6.27	-1.22	6.08	3.71	0.00	0.00	-.36	-.69	.19	.33		
24	-16.29	2.79	-1.77	1.32	7.42	6.13	0.00	0.00	0.00	.40	.65	.43		
25	5.53	-12.46	-4.39	-1.83	5.28	.14	0.00	0.00	-.12	-.93	.12	.24		
26	-6.09	-11.52	-8.18	-9.81	16.35	18.64	0.00	0.00	-.36	-.03	1.06	.03		
27	-12.87	-6.54	3.07	5.62	3.27	11.24	0.00	0.00	.38	-4.17	.91	.31		
28	-9.39	-13.45	-1.59	-.12	16.63	10.75	0.00	0.00	0.00	-3.81	1.06	.13		
29	-9.83	-4.75	.64	5.05	9.56	8.54	0.00	0.00	-.24	-4.25	.92	.46		
30	-14.29	-3.44	-1.81	-3.74	15.14	15.17	0.00	0.00	-.24	-4.29	1.18	.26		
31	-5.03	-2.33	-4.43	-2.96	5.39	13.06	0.00	0.00	0.00	-3.70	.46	.11		
32	-5.42	-3.19	1.22	2.31	.70	8.43	0.00	0.00	0.00	-4.05	.53	.45		
33	-13.59	-7.97	-3.03	1.99	17.61	9.40	0.00	0.00	0.00	-4.41	1.15	.38		
34-A	-9.24	-1.36	-2.57	-2.19	1.48	9.94	0.00	2.24	-.12	1.80	.66	.51		
34-B	0.00	0.00	3.90	.52	4.56	-.83	0.00	0.00	0.00	-8.15	.11	-.00		
35	-27.56	-.05	.55	4.22	8.39	14.69	0.00	0.00	0.00	-.23	1.23	.36		
						ACTIVITY								
36	-30.65	.44	-2.34	2.35	10.39	20.88	0.00	0.00	0.00	-.57	1.48	.35		
37	-29.35	-2.71	-7.53	-2.46	15.14	27.71	0.00	0.00	0.00	-.81	1.74	-.28		
38	-35.34	1.67	-1.37	-4.02	13.34	14.25	0.00	0.00	0.00	-.57	1.49	.43		
39	-29.30	-3.56	-6.58	1.97	16.67	21.61	0.00	0.00	-.24	-.57	1.64	.21		
40	0.00	-18.63	19.09	0.00	0.00	0.00	0.00	0.00	0.00	-1.07	Z = -3.67		BINOMIAL	
						INDIVIDUAL								
41	0.00	-.23	.64	0.00	0.00	0.00	0.00	0.00	-.10	-.31	Z = -13.50		BINOMIAL	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.30	-.56		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-1.04	-1.00		
44	0.00	-13.80	-9.11	22.42	0.00	0.00	0.00	0.00	-.77	1.27	.37	.03		
45	0.00	-99.01	100.00	0.00	0.00	0.00	0.00	0.00	-.78	-.21	Z = -54.24		BINOMIAL	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.07	-.10		
51	.93	-.51	-.17	3.49	.48	-1.05	.70	-1.54	-3.31	.99	.14	1.23		
52	0.00	13.21	-3.28	-.95	4.84	-4.24	-.13	2.46	-.68	-11.04	-.19	.13		

DIFFERENCE MATRIX OF LOS ANGELES (REGULAR - F TO F) SAMPLES (SITES 1601, 1691)

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES
						RESPONSE CATEGORIES							
						NEIGHBORHOOD							
2	0.00	-6.16	6.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.04	.01	
3	0.00	-6.00	-10.79	-.84	5.84	3.84	.53	-3.37	1.95	8.84	.87	-.29	
4	0.00	-4.44	9.25	-7.40	1.30	1.30	0.00	0.00	0.00	0.00	.04	.05	
5	0.00	-5.51	4.31	0.00	0.00	0.00	0.00	0.00	1.30	0.00	Z =	-2.07	BINOMIAL
6	0.00	2.30	-8.36	0.00	0.00	0.00	0.00	0.00	4.68	1.30	Z =	-.37	BINOMIAL
7	0.00	-2.03	-9.14	0.00	0.00	0.00	0.00	0.00	15.17	-4.00	Z =	.11	BINOMIAL
8	0.00	4.99	-10.73	0.00	0.00	0.00	0.00	0.00	9.14	-3.40	Z =	1.15	BINOMIAL
9	0.00	-3.92	1.32	0.00	0.00	0.00	0.00	0.00	2.60	0.00	Z =	-1.34	BINOMIAL
10	0.00	2.60	-6.57	0.00	0.00	0.00	0.00	0.00	2.60	1.32	Z =	.45	BINOMIAL
						NOISE							
11	0.00	-.26	-1.64	.60	0.00	0.00	0.00	0.00	0.00	1.30	Z =	.52	BINOMIAL
12-A	0.00	0.00	-11.16	0.52	-.72	5.36	0.00	0.00	0.00	0.00	.21	-.04	
12-B	0.00	0.00	.19	0.77	-18.98	9.02	0.00	0.00	0.00	0.00	-.01	.11	
13	0.00	48.94	-48.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.43	BINOMIAL
14	0.00	-10.58	-11.11	-3.70	16.67	8.73	0.00	0.00	0.00	0.00	.66	.04	
15	0.00	-21.16	7.26	-4.50	17.72	-5.03	0.00	0.00	0.00	3.70	.42	-.30	
16	0.00	-3.44	3.70	0.00	-2.91	-2.38	0.00	0.00	1.32	3.70	-.12	-.14	
17	0.00	-10.05	10.85	-4.50	0.00	0.00	0.00	0.00	0.00	3.70	.06	-.09	
18	0.00	-26.98	28.84	-3.17	0.00	0.00	0.00	0.00	-2.38	3.70	.25	-.26	
19	-5.82	10.05	-18.78	-11.64	23.54	-1.06	0.00	0.00	0.00	3.70	.33	.29	
						SOURCES							
20	7.14	-11.06	-.79	2.65	-4.50	-7.14	0.00	0.00	0.00	3.70	-.44	-.36	
21	2.12	-14.55	2.12	6.35	-1.06	1.32	0.00	0.00	0.00	3.70	.17	.14	
22	16.67	-13.23	-10.05	6.35	-3.44	0.00	0.00	0.00	0.00	3.70	.24	.09	
23	8.99	2.12	-22.22	10.32	-9.26	6.35	0.00	0.00	0.00	3.70	-.09	.27	
24	3.44	-6.61	-5.82	-1.06	2.65	0.00	0.00	0.00	0.00	7.41	-.06	.11	
25	20.63	-27.78	-5.56	-1.06	10.05	0.00	0.00	0.00	0.00	3.70	.03	-.44	
26	2.65	-11.90	-18.52	-.26	21.43	-4.50	0.00	0.00	0.00	11.11	.48	-.04	
27	20.11	-18.78	-3.17	-5.56	-11.64	11.38	0.00	0.00	0.00	7.67	-.16	.46	
28	14.81	-21.96	-1.59	-11.64	2.65	10.05	0.00	0.00	0.00	7.67	.19	.55	
29	18.78	-31.75	-.26	-4.50	8.73	1.32	0.00	0.00	0.00	7.67	.10	.46	
30	25.93	-23.54	-.53	-.53	5.29	-10.58	0.00	0.00	0.00	3.97	-.54	.15	
31	13.76	-14.02	6.61	-11.44	.79	.53	0.00	0.00	0.00	3.97	-.21	.26	
32	30.42	-32.80	3.70	-5.56	1.32	-1.06	0.00	0.00	0.00	3.97	-.41	.12	
33	25.13	-33.33	-15.08	17.46	-.79	2.65	0.00	0.00	0.00	3.97	.07	.41	
34-A	-14.40	9.73	-7.94	-2.12	0.00	1.32	0.00	3.97	0.00	12.43	.44	.38	
34-B	0.00	0.00	-12.17	0.00	8.73	0.00	0.00	0.00	0.00	3.44	.48	.45	
35	-45.24	-7.14	11.38	0.73	25.93	2.65	0.00	0.00	0.00	3.70	1.67	.56	
						ACTIVITY							
36	-19.58	-7.14	-4.50	8.73	22.22	-3.44	0.00	0.00	0.00	3.70	.88	.43	
37	-22.75	-1.06	-8.20	2.65	28.84	-3.17	0.00	0.00	0.00	3.70	1.00	-.03	
38	-36.77	-5.82	-7.67	-.26	23.54	-7.41	0.00	0.00	0.00	3.70	1.49	.80	
39	-28.57	-2.38	2.91	2.91	23.54	-2.12	0.00	0.00	0.00	3.70	1.04	.10	
40	0.00	-3.44	-.26	0.00	0.00	0.00	0.00	0.00	0.00	3.70	Z =	-.23	BINOMIAL
						INDIVIDUAL							
41	0.00	-6.57	6.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.20	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.18	-.57	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.96	-1.15	
44	0.00	7.27	-13.84	5.27	0.00	0.00	0.00	0.00	1.30	0.00	-.02	.10	
45	0.00	-10.39	7.79	0.00	0.00	0.00	0.00	0.00	0.00	2.60	Z =	.20	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.29	-.34	
51	3.13	0.00	0.00	1.56	3.13	4.69	11.62	-1.75	-6.31	-16.06	-.41	3.16	
52	0.00	5.69	-2.21	-1.82	-2.31	-2.81	-5.40	1.19	.60	7.06	-.37	.12	

BOLT BERANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF LOS ANGELES (REGULAR - F TO F) SAMPLES (SITES 1607, 1607)

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES
						RESPONSE CATEGORIES							
						NEIGHBORHOOD							
2	0.00	5.52	-5.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.06	-.01	
3	0.00	-.85	-3.40	13.24	2.05	4.90	-.80	-4.55	4.60	-15.17	-.72	.11	
4	0.00	22.07	-12.67	-10.55	1.15	0.00	0.00	0.00	0.00	0.00	-.30	-.07	
5	0.00	-15.95	16.51	0.00	0.00	0.00	0.00	0.00	-.55	0.00	Z =	-4.17	BINOMIAL
6	0.00	1.20	-4.99	0.00	0.00	0.00	0.00	0.00	5.79	-2.00	Z =	-1.30	BINOMIAL
7	0.00	.09	-.53	0.00	0.00	0.00	0.00	0.00	3.29	-2.85	Z =	-1.05	BINOMIAL
8	0.00	-3.95	-27.61	0.00	0.00	0.00	0.00	0.00	36.97	-5.40	Z =	1.28	BINOMIAL
9	0.00	-5.36	7.36	0.00	0.00	0.00	0.00	0.00	-2.00	0.00	Z =	-2.54	BINOMIAL
10	0.00	1.15	-7.66	0.00	0.00	0.00	0.00	0.00	0.00	6.51	Z =	.47	BINOMIAL
						NOISE							
11	0.00	.67	.74	.60	0.00	0.00	0.00	0.00	-2.00	0.00	Z =	.85	BINOMIAL
12-A	0.00	0.00	4.28	-19.17	12.33	-2.61	0.00	0.00	0.00	5.17	-.05	-.04	
12-B	0.00	0.00	9.71	-1.14	-9.43	-3.14	0.00	0.00	4.00	0.00	-.26	-.04	
13	0.00	36.07	-36.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.65	BINOMIAL
14	0.00	-2.38	.57	1.88	-7.13	4.01	0.00	0.00	0.00	3.03	-.05	-.02	
15	0.00	9.34	-4.75	-8.85	13.43	-9.50	0.00	0.00	-2.70	3.03	-.28	.00	
16	0.00	-20.39	0.00	0.00	28.17	-10.81	0.00	0.00	0.00	3.03	.47	-.18	
17	0.00	-16.30	25.47	-15.56	0.00	0.00	0.00	0.00	.33	6.06	-.01	-.23	
18	0.00	9.34	-8.19	-7.21	0.00	0.00	0.00	0.00	3.03	3.03	-.17	.05	
19	3.19	7.04	-6.47	-10.16	3.36	0.00	0.00	0.00	0.00	3.03	-.28	-.03	
						SOURCES							
20	21.79	-39.56	.98	4.34	6.39	0.00	0.00	0.00	0.00	6.06	.08	.44	
21	10.40	-14.50	-14.91	10.40	12.78	-7.13	0.00	0.00	0.00	3.03	.09	.09	
22	9.01	-12.94	-17.94	9.42	3.36	3.03	0.00	0.00	0.00	6.06	-.14	-.48	
23	18.51	-16.30	-9.17	.66	-6.47	9.75	0.00	0.00	0.00	3.03	-.01	.42	
24	17.04	-33.82	-8.11	6.06	6.72	9.09	0.00	0.00	0.00	3.03	.44	.87	
25	38.66	-25.06	-23.67	6.39	3.36	-2.70	0.00	0.00	0.00	3.03	-.51	-.18	
26	9.75	-15.56	-3.77	5.65	-.41	-1.72	0.00	0.00	0.00	6.06	-.00	.10	
27	48.81	-8.19	-15.89	-7.13	-10.16	-7.78	0.00	0.00	0.00	.33	-1.44	-.03	
28	42.75	-7.53	-21.29	-1.72	-7.13	-5.41	0.00	0.00	0.00	-.33	-1.14	-.01	
29	60.93	-19.00	-14.22	-10.16	-10.48	-5.41	0.00	0.00	0.00	.33	-1.55	-.33	
30	54.87	-19.33	-15.89	-10.48	-4.75	-7.78	0.00	0.00	0.00	3.36	-1.42	-.08	
31	9.09	-12.86	-10.16	-6.47	17.12	2.95	0.00	0.00	0.00	-.33	-.33	-.11	
32	18.67	-8.85	-4.75	-2.70	-2.70	0.00	0.00	0.00	0.00	.33	-.38	-.38	
33	22.44	-12.86	-3.77	-7.45	3.69	-2.38	0.00	0.00	0.00	.33	-.61	.03	
34-A	19.96	-6.06	-7.78	-10.81	-2.70	-2.38	0.00	-2.70	0.00	-.33	-.86	-.88	
34-B	0.00	0.00	-24.00	-2.70	.33	0.00	0.00	0.00	0.00	26.37	.75	.40	
35	14.25	-10.81	-2.38	.98	-5.41	.33	0.00	0.00	0.00	3.03	-.31	-.17	
						ACTIVITY							
36	9.58	-2.70	-4.10	3.69	-4.42	-5.08	0.00	0.00	0.00	3.03	-.46	-.21	
37	4.59	-5.41	-4.75	9.75	-4.10	-3.11	0.00	0.00	0.00	3.03	-.11	-.01	
38	6.80	-10.81	-10.16	4.01	9.42	-2.38	0.00	0.00	0.00	3.03	-.10	.21	
39	-5.57	-2.70	-1.39	13.43	3.69	-10.48	0.00	0.00	0.00	3.03	.09	-.23	
40	0.00	5.49	-8.52	0.00	0.00	0.00	0.00	0.00	0.00	3.03	Z =	1.49	BINOMIAL
						INDIVIDUAL							
41	0.00	5.89	-7.03	0.00	0.00	0.00	0.00	0.00	0.00	1.15	Z =	.01	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.78	.37	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-2.62	-3.19	
44	0.00	-6.71	10.87	-2.16	0.00	0.00	0.00	0.00	-2.00	0.00	.05	-.07	
45	0.00	9.40	-7.40	0.00	0.00	0.00	0.00	0.00	0.00	-2.00	Z =	3.18	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.43	.45	
51	0.00	1.27	0.00	0.00	1.27	-1.06	4.49	-3.18	-2.97	.18	-.16	.30	
52	0.00	-2.55	-7.10	2.49	12.99	-10.80	6.34	-5.10	-.55	4.09	.07	-.26	

HOLT HEDANEK AND NEWMAN INC. EPA 24 SITE SURVEY

DIFFERENCE MATRIX OF B O S T O N (REGULAR - F TO F) SAMPLES (SITES 000A, 009A)

RESPONSE CATEGORIES

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	-.71	.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.01	.00		
3	0.00	-6.68	1.85	-1.14	3.27	3.13	0.00	3.13	0.00	-3.55	.12	-.20		
4	0.00	-.57	-1.85	-6.97	6.26	3.13	0.00	0.00	0.00	0.00	.13	.13		
5	0.00	3.41	1.14	0.00	0.00	0.00	0.00	0.00	0.00	-4.55	7 =	-.75		BINOMIAL
6	0.00	10.23	-4.69	0.00	0.00	0.00	0.00	0.00	8.66	-14.20	7 =	.41		BINOMIAL
7	0.00	-12.36	4.12	0.00	0.00	0.00	0.00	0.00	-17.19	-8.95	7 =	-2.01		BINOMIAL
8	0.00	-5.68	8.38	0.00	0.00	0.00	0.00	0.00	22.02	-24.72	7 =	-1.79		BINOMIAL
9	0.00	-1.85	3.27	0.00	0.00	0.00	0.00	0.00	.85	-2.27	7 =	-.60		BINOMIAL
10	0.00	-3.69	6.39	0.00	0.00	0.00	0.00	0.00	-2.27	-.43	7 =	-1.70		BINOMIAL
						NOISE								
11	0.00	-.28	3.98	-1.42	0.00	0.00	0.00	0.00	0.00	-2.27	7 =	-.49		BINOMIAL
12-A	0.00	0.00	-5.13	-1.71	4.70	-1.71	0.00	0.00	0.00	3.85	.07	-.05		
12-B	0.00	0.00	16.67	-.24	-10.14	-6.28	0.00	0.00	0.00	0.00	-.39	.17		
13	0.00	6.25	-3.98	0.00	0.00	0.00	0.00	0.00	0.00	-2.27	7 =	.20		BINOMIAL
14	0.00	5.11	-10.51	7.95	6.53	-9.09	0.00	0.00	0.00	0.00	-.11	-.06		
15	0.00	7.95	.85	-5.68	9.66	-14.20	0.00	0.00	1.42	0.00	-.34	.03		
16	0.00	-1.14	-3.13	1.42	5.40	2.27	0.00	0.00	-4.83	0.00	.18	.02		
17	0.00	0.00	-2.84	-1.42	0.00	0.00	0.00	0.00	1.99	2.27	.00	-.01		
18	0.00	11.93	6.53	-17.61	0.00	0.00	0.00	0.00	0.00	-.85	-.31	.24		
19	-15.06	-18.18	10.23	19.32	.85	2.84	0.00	0.00	0.00	0.00	.78	-.34		
						SOURCES								
20	8.24	-12.50	4.55	1.14	-1.14	-2.56	0.00	0.00	0.00	2.27	-.13	.01		
21	26.42	-13.92	-11.07	-1.99	-5.68	8.24	0.00	0.00	0.00	0.00	-.28	.49		
22	17.05	-22.44	5.40	.28	3.69	-3.98	0.00	0.00	0.00	0.00	.14	-.05		
23	6.53	-7.95	2.27	2.27	-3.13	0.00	0.00	0.00	0.00	0.00	-.09	-.14		
24	25.85	-28.69	7.95	3.69	-4.83	-3.13	0.00	0.00	0.00	-.85	-.39	-.13		
25	20.17	-23.01	3.98	0.00	2.27	0.00	0.00	0.00	0.00	4.55	.21	.11		
26	0.00	-8.24	7.95	17.05	-8.52	-4.26	0.00	0.00	0.00	-3.98	-.09	-.23		
27	21.02	-7.39	-1.14	-16.48	6.53	-1.70	0.00	0.00	-3.13	2.27	-.44	.09		
28	11.36	-13.07	6.25	1.42	-5.11	-.85	0.00	0.00	0.00	0.00	-.21	.08		
29	14.20	-22.16	10.80	-.85	1.99	-3.98	0.00	0.00	0.00	0.00	-.15	.04		
30	5.11	-9.66	-4.83	10.23	12.22	-17.61	0.00	0.00	0.00	4.55	-.14	-.13		
31	12.50	-15.14	1.70	-3.01	3.13	6.82	0.00	0.00	0.00	0.00	.08	.32		
32	8.24	.28	-5.40	3.41	-1.70	-6.83	0.00	0.00	0.00	0.00	-.31	-.08		
33	1.14	-12.22	11.65	8.52	1.99	-13.35	0.00	0.00	0.00	2.27	-.17	-.34		
34-A	17.61	-28.12	-3.98	3.69	11.36	-2.56	0.00	-.85	0.00	2.84	.06	.19		
34-B	0.00	0.00	3.98	-3.98	2.27	-3.13	0.00	0.00	0.00	.85	-.31	-.36		
35	26.42	-7.10	-7.39	-1.99	-6.53	-3.41	0.00	0.00	0.00	0.00	-.71	.06		
						ACTIVITY								
36	.28	-14.20	5.97	6.53	5.11	-.57	0.00	0.00	0.00	-3.13	.20	.00		
37	3.98	-12.50	1.14	13.35	-2.27	-3.69	0.00	0.00	0.00	0.00	.02	-.08		
38	5.40	-8.81	5.97	3.41	1.99	-7.95	0.00	0.00	0.00	0.00	-.14	-.19		
39	-6.82	-4.83	6.82	7.39	1.70	-4.26	0.00	0.00	0.00	0.00	.16	-.13		
40	0.00	-6.53	6.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7 =	-1.31		BINOMIAL
						INDIVIDUAL								
41	0.00	-12.07	12.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7 =	-.88		BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.29	-.20		
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	2.31		
44	0.00	-22.02	10.94	6.25	0.00	0.00	0.00	0.00	4.69	.14	.30	-.06		
45	0.00	7.95	-8.81	0.00	0.00	0.00	0.00	0.00	.85	0.00	7 =	2.23		BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-.05	-.11		
51	-2.39	0.00	1.67	-10.71	1.67	-.48	-.48	-2.62	-5.95	19.29	.80	.05		
52	0.00	1.99	-.85	-5.54	.14	3.13	1.56	0.00	-.71	28	00	24		

ATLANTA - SITE NO. 0403

NUMBER OF RESPONDENTS = 80

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	.43	80	
3	0.00	0.00	0.00	7.50	1.25	3.75	3.75	8.75	20.00	55.00	7.85	1.78	80	
4	0.00	30.00	57.50	12.50	0.00	0.00	0.00	0.00	0.00	0.00	1.82	.63	80	
5	0.00	45.00	50.00	5.00	0.00	0.00	0.00	0.00	3.75	1.25	Z =	-.45	76	BINOMIAL
6	0.00	8.75	78.75	0.00	0.00	0.00	0.00	0.00	8.75	3.75	Z =	-6.69	70	BINOMIAL
7	0.00	5.00	52.00	0.00	0.00	0.00	0.00	0.00	27.50	17.50	Z =	-5.43	44	BINOMIAL
8	0.00	8.75	17.50	0.00	0.00	0.00	0.00	0.00	42.50	31.25	Z =	-1.53	21	BINOMIAL
9	0.00	10.00	87.50	0.00	0.00	0.00	0.00	0.00	1.25	1.25	Z =	-7.02	79	BINOMIAL
10	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	Z =	-2.63	8	BINOMIAL
						NOISE								
11	0.00	77.50	13.75	8.75	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.97	80	BINOMIAL
12-A	0.00	0.00	0.00	32.26	61.29	6.45	0.00	0.00	0.00	0.00	3.74	.57	62	
12-B	0.00	0.00	27.27	54.55	18.18	0.00	0.00	0.00	0.00	0.00	2.91	.67	11	
13	0.00	75.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.47	80	BINOMIAL
14	0.00	25.00	10.00	40.00	25.00	0.00	0.00	0.00	0.00	0.00	2.65	1.11	20	
15	0.00	45.00	5.00	20.00	5.00	25.00	0.00	0.00	0.00	0.00	2.60	1.66	20	
16	0.00	70.00	0.00	0.00	30.00	0.00	0.00	0.00	0.00	0.00	1.90	1.37	20	
17	0.00	60.00	5.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	1.75	.94	20	
18	0.00	45.00	20.00	35.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90	.89	20	
19	90.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	.40	1.20	20	
						SOURCES								
20	75.00	10.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	.45	.58	20	
21	50.00	5.00	20.00	10.00	10.00	0.00	0.00	0.00	0.00	5.00	1.21	1.44	19	
22	45.00	5.00	0.00	15.00	30.00	5.00	0.00	0.00	0.00	0.00	1.95	1.91	20	
23	40.00	0.00	5.00	10.00	35.00	10.00	0.00	0.00	0.00	0.00	2.30	1.93	20	
24	95.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.05	.22	20	
25	85.00	5.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.25	.62	20	
26	40.00	15.00	25.00	5.00	15.00	0.00	0.00	0.00	0.00	0.00	1.40	1.43	20	
27	65.00	5.00	0.00	10.00	5.00	0.00	0.00	0.00	0.00	15.00	.65	1.28	17	
28	55.00	5.00	5.00	10.00	10.00	0.00	0.00	0.00	0.00	15.00	1.00	1.50	17	
29	65.00	10.00	5.00	5.00	0.00	0.00	0.00	0.00	0.00	15.00	.41	.84	17	
30	65.00	0.00	5.00	10.00	5.00	0.00	0.00	0.00	0.00	15.00	.71	1.32	17	
31	45.00	5.00	10.00	5.00	20.00	0.00	0.00	0.00	0.00	15.00	1.41	1.66	17	
32	65.00	5.00	0.00	0.00	5.00	10.00	0.00	0.00	0.00	15.00	.88	1.78	17	
33	60.00	5.00	5.00	0.00	15.00	0.00	0.00	0.00	0.00	15.00	.88	1.53	17	
34-A	90.00	0.00	5.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	.30	.95	20	
34-B	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	2.00	0.00	2	
35	50.00	0.00	10.00	30.00	10.00	0.00	0.00	0.00	0.00	0.00	1.50	1.57	20	
						ACTIVITY								
36	65.00	0.00	10.00	10.00	10.00	0.00	0.00	0.00	0.00	0.00	1.10	1.59	20	
37	70.00	0.00	5.00	5.00	20.00	0.00	0.00	0.00	0.00	0.00	1.05	1.66	20	
38	65.00	0.00	10.00	15.00	10.00	0.00	0.00	0.00	0.00	0.00	1.05	1.50	20	
39	55.00	0.00	15.00	20.00	10.00	0.00	0.00	0.00	0.00	0.00	1.30	1.52	20	
40	0.00	65.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	5.00	Z =	7.69	19	BINOMIAL
						INDIVIDUAL								
41	0.00	26.25	73.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-4.25	80	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.12	4.80	80	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.78	10.13	77	
44	0.00	27.50	43.75	27.50	0.00	0.00	0.00	0.00	1.25	0.00	2.00	.75	79	
45	0.00	98.75	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.72	80	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.70	1.56	80	
51	2.74	4.59	0.00	10.96	6.85	15.07	4.11	17.81	8.22	24.66	5.82	2.74	73	

ATLANTA = SITE NO. 0404

NUMBER OF RESPONDENTS = 76

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	80.26	19.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	.40	76	
3	0.00	0.00	2.86	5.71	2.86	2.86	8.57	1.43	2.86	72.86	7.89	2.06	70	
4	0.00	17.11	46.05	30.26	5.26	1.32	0.00	0.00	0.00	0.00	2.28	.85	76	
5	0.00	34.21	60.53	0.00	0.00	0.00	0.00	0.00	2.63	2.63	Z =	-2.35	72	BINOMIAL
6	0.00	3.95	65.42	0.00	0.00	0.00	0.00	0.00	13.16	14.47	Z =	-6.41	55	BINOMIAL
7	0.00	5.26	44.74	0.00	0.00	0.00	0.00	0.00	17.11	32.89	Z =	-4.87	36	BINOMIAL
8	0.00	3.95	18.42	0.00	0.00	0.00	0.00	0.00	31.58	46.05	Z =	-2.67	17	BINOMIAL
9	0.00	11.84	86.84	0.00	0.00	0.00	0.00	0.00	1.32	0.00	Z =	-6.56	75	BINOMIAL
10	0.00	0.00	11.84	0.00	0.00	0.00	0.00	0.00	0.00	88.16	Z =	-3.00	9	BINOMIAL
NOISE														
11	0.00	80.26	14.47	5.26	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.89	76	BINOMIAL
12-A	1.64	0.00	3.28	27.87	47.54	19.67	0.00	0.00	0.00	0.00	3.79	.91	61	
12-B	0.00	0.00	9.09	72.73	18.18	0.00	0.00	0.00	0.00	0.00	3.09	.51	11	
13	0.00	77.63	22.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.82	76	BINOMIAL
14	0.00	11.76	11.76	58.82	11.76	5.88	0.00	0.00	0.00	0.00	2.88	.96	17	
15	0.00	52.94	0.00	35.29	0.00	5.88	0.00	0.00	0.00	5.88	2.00	1.22	16	
16	0.00	41.18	0.00	0.00	52.94	0.00	0.00	0.00	0.00	5.88	2.69	1.49	16	
17	0.00	35.29	41.18	17.65	0.00	0.00	0.00	0.00	0.00	5.88	1.81	.73	16	
18	0.00	35.29	23.53	35.29	0.00	0.00	0.00	0.00	0.00	5.88	2.00	.67	16	
19	82.35	0.00	0.00	5.88	5.88	0.00	0.00	0.00	0.00	5.88	.44	1.17	16	
SOURCES														
20	47.06	5.88	11.76	5.88	11.76	11.76	0.00	0.00	0.00	5.88	1.63	1.90	16	
21	58.82	5.88	0.00	11.76	11.76	5.88	0.00	0.00	0.00	5.88	1.25	1.79	16	
22	58.82	17.65	11.76	5.88	0.00	0.00	0.00	0.00	0.00	5.88	.63	.93	16	
23	52.94	23.53	11.76	0.00	5.88	0.00	0.00	0.00	0.00	5.88	.75	1.09	16	
24	82.35	5.88	0.00	0.00	5.88	0.00	0.00	0.00	0.00	5.88	.31	.79	16	
25	82.35	5.88	0.00	0.00	5.88	0.00	0.00	0.00	0.00	5.88	.31	.79	16	
26	29.41	23.53	5.88	23.53	5.88	5.88	0.00	0.00	0.00	5.88	1.69	1.87	16	
27	58.82	0.00	5.88	5.88	0.00	0.00	0.00	0.00	0.00	29.41	.42	.95	12	
28	17.65	11.76	11.76	29.41	0.00	0.00	0.00	0.00	0.00	29.41	1.75	1.83	12	
29	41.18	11.76	0.00	17.65	0.00	0.00	0.00	0.00	0.00	29.41	.92	1.26	12	
30	47.06	0.00	5.88	17.65	0.00	0.00	0.00	0.00	0.00	29.41	.92	1.32	13	
31	29.41	0.00	11.76	11.76	11.76	5.88	0.00	0.00	0.00	29.41	1.92	1.89	12	
32	58.82	0.00	5.88	0.00	5.88	0.00	0.00	0.00	0.00	29.41	.50	1.19	12	
33	23.53	5.88	17.65	11.76	11.76	0.00	0.00	0.00	0.00	29.41	1.75	1.48	12	
34-A	88.24	0.00	0.00	0.00	0.00	5.88	0.00	0.00	0.00	5.88	.31	1.21	16	
34-B	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	0.00	94.12	2.00	0.00	1	
35	58.82	0.00	11.76	11.76	5.88	5.88	0.00	0.00	0.00	5.88	1.19	1.87	16	
ACTIVITY														
36	82.35	0.00	5.88	0.00	0.00	5.88	0.00	0.00	0.00	5.88	.44	1.27	16	
37	82.35	0.00	5.88	0.00	5.88	0.00	0.00	0.00	0.00	5.88	.38	1.05	16	
38	70.59	0.00	5.88	5.88	11.76	0.00	0.00	0.00	0.00	5.88	.81	1.47	16	
39	76.47	0.00	5.88	5.88	0.00	5.88	0.00	0.00	0.00	5.88	.63	1.41	16	
40	0.00	88.24	11.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.65	17	BINOMIAL
INDIVIDUAL														
41	0.00	77.63	21.05	0.00	0.00	0.00	0.00	0.00	0.00	1.32	Z =	4.97	75	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.12	5.17	75	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.50	11.73	67	
44	0.00	19.74	67.11	10.53	0.00	0.00	0.00	0.00	2.63	0.00	1.91	.55	74	
45	0.00	97.37	2.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.26	76	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.41	1.64	76	
51	35.00	6.67	1.67	15.00	5.00	13.33	0.00	6.67	8.33	6.33	3.30	3.17	60	
52	0.00	48.68	15.79	3.95	3.95	0.00	0.00	0.00	18.42	9.21	1.49	.83	55	

NUMBER OF RESPONDENTS = 74

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	52.70	47.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	.50	74	
3	0.00	0.00	12.16	6.76	4.05	6.76	2.70	9.46	10.81	47.30	6.89	2.60	74	
4	0.00	70.27	27.03	2.70	0.00	0.00	0.00	0.00	0.00	0.00	1.32	.52	74	
5	0.00	9.46	90.54	0.00	0.00	0.00	0.00	0.00	1.35	0.00	Z =	-6.97	74	BINOMIAL
6	0.00	13.51	85.14	0.00	0.00	0.00	0.00	0.00	0.00	1.35	Z =	-6.20	73	BINOMIAL
7	0.00	2.70	72.97	0.00	0.00	0.00	0.00	0.00	6.76	17.57	Z =	-6.05	56	BINOMIAL
8	0.00	0.00	44.59	0.00	0.00	0.00	0.00	0.00	14.86	40.54	Z =	-5.74	33	BINOMIAL
9	0.00	8.11	91.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-7.21	74	BINOMIAL
10	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	91.89	Z =	-2.45	6	BINOMIAL
						NOISE								
11	0.00	93.24	5.41	1.35	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.61	74	BINOMIAL
12-A	0.00	0.00	5.70	31.86	44.93	14.49	0.00	0.00	0.00	0.00	3.65	.83	69	
12-B	0.00	0.00	25.00	75.00	0.00	0.00	0.00	0.00	0.00	0.00	2.75	.43	4	
13	0.00	54.55	45.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.70	74	BINOMIAL
14	0.00	2.94	55.88	23.53	11.76	5.88	0.00	0.00	0.00	0.00	2.82	.94	34	
15	0.00	47.06	2.94	23.53	2.94	20.59	0.00	0.00	2.94	0.00	3.45	1.60	33	
16	0.00	23.53	2.94	14.71	55.88	2.94	0.00	0.00	0.00	0.00	3.12	1.28	34	
17	0.00	20.59	67.65	11.76	0.00	0.00	0.00	0.00	0.00	0.00	1.91	.56	34	
18	0.00	8.82	50.00	41.18	0.00	0.00	0.00	0.00	0.00	0.00	2.32	.63	34	
19	82.35	11.76	2.94	2.94	0.00	0.00	0.00	0.00	0.00	0.00	.26	.66	34	
						SOURCES								
20	29.41	61.76	8.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.79	.58	34	
21	8.82	29.41	35.29	5.88	11.76	8.82	0.00	0.00	0.00	0.00	2.09	1.40	34	
22	20.59	52.94	8.82	14.71	2.94	0.00	0.00	0.00	0.00	0.00	1.26	1.04	34	
23	17.65	52.94	5.88	8.82	8.82	2.94	0.00	0.00	0.00	2.94	1.45	1.30	33	
24	73.53	14.71	5.88	0.00	2.94	2.94	0.00	0.00	0.00	0.00	.53	1.15	34	
25	11.76	41.18	17.65	23.53	2.94	2.94	0.00	0.00	0.00	0.00	1.74	1.20	34	
26	2.94	41.18	29.41	11.76	8.82	5.88	0.00	0.00	0.00	0.00	2.00	1.24	34	
27	17.65	55.88	5.88	17.65	2.94	0.00	0.00	0.00	0.00	0.00	1.32	1.05	34	
28	8.82	76.59	11.76	5.88	0.00	2.94	0.00	0.00	0.00	0.00	1.26	.92	34	
29	32.35	52.94	5.88	2.94	5.88	0.00	0.00	0.00	0.00	0.00	.97	1.01	34	
30	38.24	35.29	5.88	14.71	5.88	0.00	0.00	0.00	0.00	0.00	1.15	1.24	34	
31	17.65	23.53	23.59	20.59	11.76	5.88	0.00	0.00	0.00	0.00	2.03	1.46	34	
32	79.41	17.65	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.24	.49	34	
33	85.29	11.76	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.18	.45	34	
34-A	52.94	8.82	5.88	11.76	8.82	8.82	0.00	2.94	0.00	0.00	1.56	2.00	34	
34-B	0.00	0.00	44.12	5.89	0.00	0.00	0.00	0.00	0.00	50.00	2.12	.32	17	
35	94.12	0.00	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00	.29	1.18	34	
						ACTIVITY								
36	70.59	5.88	5.88	8.82	5.88	2.94	0.00	0.00	0.00	0.00	.82	1.44	34	
37	50.00	8.82	5.88	0.00	17.65	17.65	0.00	0.00	0.00	0.00	1.79	2.08	34	
38	85.29	2.94	5.88	2.94	0.00	2.94	0.00	0.00	0.00	0.00	.36	1.06	34	
39	76.47	2.94	2.94	2.94	11.76	2.94	0.00	0.00	0.00	0.00	.79	1.55	34	
40	0.00	79.41	20.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.88	34	BINOMIAL
						INDIVIDUAL								
41	0.00	46.65	51.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.23	74	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.63	4.37	73	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.76	9.29	67	
44	0.00	28.38	35.14	36.49	0.00	0.00	0.00	0.00	0.00	0.00	2.08	.80	74	
45	0.00	95.95	2.70	0.00	0.00	0.00	0.00	0.00	0.00	1.35	Z =	8.08	73	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.65	1.42	72	
51	0.00	0.00	0.00	0.00	1.37	1.37	1.37	4.11	26.03	65.75	8.69	.92	73	
52	0.00	1.35	4.05	13.51	12.16	18.92	12.16	18.92	4.05	14.86	4.92	1.62	60	

BOSTON - SITE NO. 0005

NUMBER OF RESPONDENTS = 78

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	39.74	60.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.60	.49	78	
3	0.00	3.85	43.59	14.10	8.97	3.85	7.69	6.41	0.00	11.54	3.03	2.45	78	
4	0.00	23.08	42.59	26.92	2.56	2.56	0.00	0.00	1.28	0.00	2.17	.90	77	
5	0.00	8.97	87.18	0.00	0.00	0.00	0.00	0.00	0.00	3.85	Z =	-7.04	78	BINOMIAL
6	0.00	1.28	84.62	0.00	0.00	0.00	0.00	0.00	8.97	5.13	Z =	-7.54	67	BINOMIAL
7	0.00	10.26	71.79	0.00	0.00	0.00	0.00	0.00	7.69	10.26	Z =	-6.00	64	BINOMIAL
8	0.00	10.26	47.44	0.00	0.00	0.00	0.00	0.00	16.67	25.64	Z =	-4.32	65	BINOMIAL
9	0.00	34.62	65.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-2.72	78	BINOMIAL
10	0.00	2.56	33.33	0.00	0.00	0.00	0.00	0.00	0.00	64.10	Z =	-4.54	26	BINOMIAL
						NOISE								
11	0.00	38.46	51.28	10.26	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.20	78	BINOMIAL
12-A	3.33	0.00	13.33	36.67	40.00	3.33	0.00	0.00	0.00	3.33	3.24	.97	26	
12-B	0.00	0.00	5.00	35.00	40.00	20.00	0.00	0.00	0.00	0.00	3.75	.53	40	
13	0.00	29.49	70.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-5.62	78	BINOMIAL
14	0.00	9.09	27.27	23.64	23.64	16.36	0.00	0.00	0.00	0.00	3.11	1.23	55	
15	0.00	16.36	16.36	10.91	23.64	29.09	0.00	0.00	3.64	0.00	3.34	1.63	55	
16	0.00	38.18	1.82	5.45	49.09	1.82	0.00	0.00	3.64	0.00	2.74	1.46	55	
17	0.00	41.82	30.91	25.45	0.00	0.00	0.00	0.00	1.82	0.00	1.93	.81	55	
18	0.00	21.82	16.36	61.82	0.00	0.00	0.00	0.00	0.00	0.00	2.40	.82	55	
19	18.18	12.73	21.82	10.91	16.36	20.00	0.00	0.00	0.00	0.00	2.55	1.77	55	
						SOURCES								
20	16.36	36.36	23.64	9.09	9.09	5.45	0.00	0.00	0.00	0.00	1.75	1.38	55	
21	23.64	36.18	14.55	7.27	9.09	7.27	0.00	0.00	0.00	0.00	1.62	1.51	55	
22	16.36	32.73	18.18	21.82	9.09	1.82	0.00	0.00	0.00	0.00	1.80	1.30	55	
23	76.36	20.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.64	.21	.41	53	
24	49.09	36.91	10.91	5.45	1.82	1.82	0.00	0.00	0.00	0.00	.85	1.12	55	
25	89.09	7.27	0.00	1.82	0.00	0.00	0.00	0.00	0.00	1.82	.13	.47	54	
26	5.45	18.18	29.09	16.36	21.82	18.18	0.00	0.00	0.00	0.00	2.05	1.53	55	
27	41.82	20.00	10.91	7.27	7.27	5.45	0.00	0.00	0.00	7.27	1.29	1.56	51	
28	9.09	23.64	12.73	21.82	12.73	12.73	0.00	0.00	0.00	7.27	2.47	1.56	51	
29	20.00	25.45	9.09	20.00	3.64	14.55	0.00	0.00	0.00	7.27	2.06	1.71	51	
30	14.55	7.27	7.27	16.36	30.91	16.36	0.00	0.00	0.00	7.27	2.93	1.69	51	
31	25.45	25.09	10.91	10.91	9.09	9.09	0.00	0.00	0.00	5.45	1.75	1.64	52	
32	21.82	27.27	10.91	10.91	9.09	12.73	0.00	0.00	0.00	7.27	1.96	1.73	51	
33	14.55	25.45	10.91	12.73	15.18	12.73	0.00	0.00	0.00	5.45	2.35	1.70	52	
34-A	45.45	3.64	3.64	3.64	10.91	16.36	0.00	5.45	0.00	10.91	2.08	2.41	49	
34-B	0.00	0.00	36.36	1.82	5.45	0.00	0.00	0.00	0.00	56.36	2.29	.63	24	
35	47.27	3.64	9.09	12.73	20.00	7.27	0.00	0.00	0.00	0.00	1.76	1.85	55	
						ACTIVITY								
36	43.64	5.45	10.91	7.27	12.73	18.18	0.00	0.00	0.00	1.82	1.94	2.02	54	
37	23.64	3.64	9.09	1.82	32.73	29.09	0.00	0.00	0.00	0.00	3.04	1.96	55	
38	40.00	3.64	14.55	5.45	16.36	20.00	0.00	0.00	0.00	0.00	2.15	2.03	55	
39	45.45	1.82	5.45	9.09	10.18	20.00	0.00	0.00	0.00	7.00	2.13	2.11	55	
40	0.00	76.36	23.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.27	55	BINOMIAL
						INDIVIDUAL								
41	0.00	65.38	34.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.72	78	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.88	5.21	78	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.72	12.52	75	
44	0.00	42.31	35.90	21.79	0.00	0.00	0.00	0.00	0.00	0.00	1.79	.77	78	
45	0.00	87.18	12.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.57	78	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.96	1.37	55	
51	0.00	9.09	0.00	2.60	2.60	9.09	11.69	6.49	10.39	48.05	7.04	2.54	77	
52	0.00	28.21	17.95	21.79	8.97	3.85	1.28	5.13	0.00	12.82	2.62	1.65	68	

BOSTON - SITE NO. 0007

NUMBER OF RESPONDENTS = 76

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	55.26	43.42	1.32	0.00	0.00	0.00	0.00	0.00	0.00	1.46	.52	76	
3	0.00	2.70	13.51	9.46	9.46	5.41	8.11	1.35	4.05	45.95	6.27	2.89	74	
4	0.00	9.21	46.68	31.58	7.89	1.32	0.00	0.00	1.32	0.00	2.43	.82	75	
5	0.00	14.47	78.95	0.00	0.00	0.00	0.00	0.00	5.26	1.32	Z =	-5.82	71	BINOMIAL
6	0.00	6.59	73.00	0.00	0.00	0.00	0.00	0.00	11.04	9.58	Z =	-8.30	62	BINOMIAL
7	0.00	16.53	61.04	0.00	0.00	0.00	0.00	0.00	11.64	15.79	Z =	-5.26	55	BINOMIAL
8	0.00	5.26	34.21	0.00	0.00	0.00	0.00	0.00	22.37	38.16	Z =	-4.62	38	BINOMIAL
9	0.00	26.32	72.37	0.00	0.00	0.00	0.00	0.00	1.32	0.00	Z =	-4.04	75	BINOMIAL
10	0.00	5.26	19.74	0.00	0.00	0.00	0.00	0.00	0.00	75.00	Z =	-2.52	19	BINOMIAL
						NOISE								
11	0.00	46.05	48.66	5.26	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.24	76	BINOMIAL
12-A	0.00	0.00	5.57	60.00	28.57	2.56	0.00	0.00	0.00	0.00	3.26	.65	35	
12-B	0.00	0.00	5.41	48.65	43.24	2.70	0.00	0.00	0.00	0.00	3.43	.64	37	
13	0.00	39.47	60.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.84	76	BINOMIAL
14	0.00	6.52	26.09	41.30	15.22	10.87	0.00	0.00	0.00	0.00	2.93	1.35	46	
15	0.00	6.52	6.52	30.43	30.43	26.09	0.00	0.00	0.00	0.00	3.63	1.13	46	
16	0.00	6.52	2.17	6.52	80.43	0.00	0.00	0.00	4.35	0.00	3.68	.82	44	
17	0.00	30.43	41.30	26.09	0.00	0.00	0.00	0.00	2.17	0.00	1.96	.76	45	
18	0.00	13.04	13.04	73.91	0.00	0.00	0.00	0.00	0.00	0.00	2.61	.71	46	
19	65.22	4.35	13.04	4.35	8.70	4.35	0.00	0.00	0.00	0.00	1.00	1.56	46	
						SOURCES								
20	23.91	10.87	19.57	23.91	10.87	10.87	0.00	0.00	0.00	0.00	2.20	1.64	46	
21	21.74	15.22	13.04	8.70	23.91	17.39	0.00	0.00	0.00	0.00	2.50	1.84	46	
22	17.39	17.39	17.39	26.09	15.22	4.35	0.00	0.00	0.00	2.17	2.16	1.46	46	
23	71.74	15.22	10.87	2.17	0.00	0.00	0.00	0.00	0.00	0.00	.43	.77	46	
24	65.22	15.22	8.70	4.35	0.52	0.00	0.00	0.00	0.00	0.00	.72	1.19	46	
25	80.43	13.04	0.00	4.35	0.00	0.00	0.00	0.00	2.17	0.00	.27	.58	45	
26	10.87	10.87	15.22	17.39	28.26	17.39	0.00	0.00	0.00	0.00	2.93	1.56	46	
27	60.87	4.35	4.35	8.52	13.04	6.52	0.00	0.00	0.00	4.35	1.23	1.79	44	
28	13.04	19.57	13.04	23.91	19.57	6.52	0.00	0.00	0.00	4.35	2.39	1.51	44	
29	73.91	4.35	8.70	2.17	2.17	4.35	0.00	0.00	0.00	4.35	.61	1.32	44	
30	54.35	10.87	8.70	6.52	4.35	10.87	0.00	0.00	0.00	4.35	1.25	1.76	44	
31	50.00	10.87	13.04	10.87	8.70	2.17	0.00	0.00	0.00	4.35	1.23	1.58	44	
32	76.09	10.87	4.35	0.00	0.00	4.35	0.00	0.00	0.00	4.35	.43	1.12	44	
33	67.39	4.35	4.35	8.70	4.35	4.35	0.00	0.00	0.00	6.52	.84	1.51	43	
34-A	60.87	0.00	2.17	4.35	8.70	13.04	0.00	0.00	2.17	0.00	8.70	1.45	2.16	42
34-B	0.00	0.00	0.00	0.00	2.17	0.00	0.00	0.00	0.00	97.83	4.00	0.00	1	
35	54.35	0.00	19.57	8.70	21.74	4.35	0.00	0.00	0.00	0.00	1.57	1.63	46	
						ACTIVITY								
36	45.65	0.00	13.87	8.70	28.26	6.52	0.00	0.00	0.00	0.00	1.93	1.90	46	
37	34.78	2.17	15.22	8.70	15.22	23.91	0.00	0.00	0.00	0.00	2.39	2.03	46	
38	76.09	0.00	10.87	4.35	8.70	0.00	0.00	0.00	0.00	0.00	.70	1.32	46	
39	50.00	0.00	6.52	15.22	21.74	6.52	0.00	0.00	0.00	0.00	1.78	1.89	46	
40	0.00	84.78	15.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.96	46	BINOMIAL
						INDIVIDUAL								
41	0.00	63.16	35.53	0.00	0.00	0.00	0.00	0.00	0.00	1.32	Z =	2.42	75	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.33	5.01	76	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.70	10.32	74	
44	0.00	34.21	43.42	21.05	0.00	0.00	0.00	0.00	0.00	1.32	1.87	.74	76	
45	0.00	89.47	10.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.86	76	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.91	1.26	64	
51	0.00	8.45	0.00	7.04	18.31	14.08	9.86	19.72	4.23	18.31	6.21	4.31	71	
52	0.00	26.32	22.37	15.79	6.58	0.00	0.00	1.32	14.47	13.16	2.13	1.18	55	

BOSTON (FACE TO FACE) - SITE NO. 0097

NUMBER OF RESPONDENTS = 49

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	59.18	40.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	.49	49	
3	0.00	4.08	16.33	6.12	12.24	0.00	4.08	2.04	2.04	53.06	6.37	3.07	49	
4	0.00	18.37	38.78	30.61	8.16	0.00	0.00	0.00	2.04	2.04	2.30	.87	47	
5	0.00	0.16	67.75	0.00	0.00	0.00	0.00	0.00	2.04	2.04	Z =	-5.69	47	BINOMIAL
6	0.00	6.12	59.18	0.00	0.00	0.00	0.00	0.00	16.33	16.37	Z =	-4.60	32	BINOMIAL
7	0.00	12.24	63.27	0.00	0.00	0.00	0.00	0.00	4.08	20.41	Z =	-4.11	37	BINOMIAL
8	0.00	2.04	38.78	0.00	0.00	0.00	0.00	0.00	14.29	44.90	Z =	-4.02	28	BINOMIAL
9	0.00	16.33	83.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-4.71	49	BINOMIAL
10	0.00	0.00	14.29	0.00	0.00	0.00	0.00	0.00	2.04	83.67	Z =	-2.65	7	BINOMIAL
						NOISE								
11	0.00	40.82	51.02	8.16	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.75	49	BINOMIAL
12-A	0.00	0.00	0.00	65.00	30.00	5.00	0.00	0.00	0.00	0.00	3.40	.58	20	
12-B	4.00	0.00	16.00	44.00	20.00	16.00	0.00	0.00	0.00	0.00	3.24	1.14	25	
13	0.00	40.82	59.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.29	49	BINOMIAL
14	0.00	0.00	34.48	37.93	17.24	10.34	0.00	0.00	0.00	0.00	3.03	.66	29	
15	0.00	13.79	10.34	20.69	17.24	34.48	0.00	0.00	3.45	0.00	3.50	1.43	29	
16	0.00	20.69	0.00	0.00	75.86	0.00	0.00	0.00	3.45	0.00	3.36	1.23	29	
17	0.00	24.14	44.83	31.03	0.00	0.00	0.00	0.00	0.00	0.00	2.07	.74	29	
18	0.00	13.79	6.90	79.31	0.00	0.00	0.00	0.00	0.00	0.00	2.66	.71	29	
19	72.41	13.79	6.90	6.90	0.00	0.00	0.00	0.00	0.00	0.00	.48	.90	29	
						SOURCES								
20	[illegible]	13.79	20.69	13.79	13.79	6.90	0.00	0.00	0.00	0.00	1.86	1.63	29	
21	13.24	10.34	27.59	20.69	24.14	3.45	0.00	0.00	0.00	3.45	2.90	1.35	28	
22	6.90	44.83	10.34	17.24	17.24	3.45	0.00	0.00	0.00	0.00	2.03	1.38	29	
23	82.17	34.48	3.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.41	.56	29	
24	66.77	6.90	10.34	10.34	0.00	3.45	0.00	0.00	0.00	0.00	.76	1.20	29	
25	65.52	24.14	6.90	0.00	0.00	3.45	0.00	0.00	0.00	0.00	.55	1.04	29	
26	3.45	20.69	13.79	17.24	27.59	17.24	0.00	0.00	0.00	0.00	2.97	1.50	29	
27	41.38	10.34	3.45	10.34	20.69	6.90	0.00	0.00	6.90	0.00	1.78	1.87	27	
28	6.90	31.03	24.14	13.79	10.34	13.79	0.00	0.00	0.00	0.00	2.31	1.51	29	
29	37.93	44.83	3.45	6.90	3.45	3.45	0.00	0.00	0.00	0.00	1.03	1.26	29	
30	51.72	31.03	6.90	3.45	0.00	6.90	0.00	0.00	0.00	0.00	.90	1.25	29	
31	34.48	17.24	6.90	17.24	13.79	10.34	0.00	0.00	0.00	0.00	1.90	1.79	29	
32	79.31	13.79	0.00	0.00	3.45	3.45	0.00	0.00	0.00	0.00	.45	1.16	29	
33	68.97	10.34	0.00	3.45	13.79	3.45	0.00	0.00	0.00	0.00	.93	1.62	29	
34-A	68.97	0.00	0.00	10.34	6.90	10.34	0.00	0.00	0.00	3.45	1.14	1.67	29	
34-B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0	
35	65.52	6.90	0.00	6.90	17.24	3.45	0.00	0.00	0.00	0.00	1.14	1.74	29	
						ACTIVITY								
36	44.83	3.45	13.79	6.90	20.69	10.34	0.00	0.00	0.00	0.00	1.86	1.91	29	
37	24.14	0.00	6.90	10.34	37.93	17.24	0.00	0.00	0.00	3.45	2.93	1.55	28	
38	62.07	0.00	3.45	17.24	13.79	3.45	0.00	0.00	0.00	0.00	1.31	1.74	29	
39	62.07	0.00	17.24	6.90	10.34	3.45	0.00	0.00	0.00	0.00	1.14	1.59	29	
40	0.00	62.07	37.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.41	29	BINOMIAL
						INDIVIDUAL								
41	0.00	69.39	30.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.71	49	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.47	4.89	49	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.42	11.11	48	
44	0.00	51.02	28.53	18.37	0.00	0.00	0.00	0.00	4.08	0.00	1.66	.78	47	
45	0.00	91.84	8.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.86	49	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.68	1.38	49	
51	2.08	10.42	0.00	10.42	4.17	29.17	12.50	6.25	10.42	14.58	5.38	2.48	46	
52	0.00	38.78	32.65	16.33	8.16	0.00	0.00	0.00	2.04	2.04	1.94	.95	47	

BOSTON - SITE NO. 0008

NUMBER OF RESPONDENTS = 64

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	51.56	48.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	.50	64	
3	0.00	4.69	35.94	12.50	7.81	3.13	0.00	3.13	0.00	32.81	4.70	3.14	64	
4	0.00	6.25	39.06	35.94	15.62	3.13	0.00	0.00	0.00	0.00	2.70	.91	64	
5	0.00	12.50	87.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-8.00	64	BINOMIAL
6	0.00	12.50	70.31	0.00	0.00	0.00	0.00	0.00	10.94	6.25	Z =	-5.03	53	BINOMIAL
7	0.00	17.19	60.94	0.00	0.00	0.00	0.00	0.00	17.19	4.69	Z =	-3.96	50	BINOMIAL
8	0.00	12.50	51.56	0.00	0.00	0.00	0.00	0.00	25.00	9.33	Z =	-3.00	41	BINOMIAL
9	0.00	39.06	57.81	0.00	0.00	0.00	0.00	0.00	3.13	0.00	Z =	-1.50	62	BINOMIAL
10	0.00	3.13	35.94	0.00	0.00	0.00	0.00	0.00	0.00	60.94	Z =	-4.20	25	BINOMIAL
						NOISE								
11	0.00	40.62	56.25	3.13	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.27	64	BINOMIAL
12-A	0.00	0.00	11.54	53.85	26.92	3.85	0.00	0.00	0.00	3.85	3.24	.71	26	
12-B	0.00	0.00	16.67	36.89	33.33	11.11	0.00	0.00	0.00	0.00	3.39	.69	36	
13	0.00	31.25	68.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-3.00	64	BINOMIAL
14	0.00	11.36	11.36	45.45	15.91	15.91	0.00	0.00	0.00	0.00	3.14	1.15	44	
15	0.00	20.45	27.73	6.82	15.91	29.55	0.00	0.00	4.55	0.00	3.12	1.58	42	
16	0.00	36.36	0.00	4.55	52.27	2.27	0.00	0.00	4.55	0.00	2.83	1.46	42	
17	0.00	25.00	15.91	45.45	0.00	0.00	0.00	0.00	11.36	2.27	2.24	.87	38	
18	0.00	16.15	15.91	63.64	0.00	0.00	0.00	0.00	0.00	2.27	2.47	.79	43	
19	6.82	6.82	22.73	31.82	22.73	9.09	0.00	0.00	0.00	0.00	2.84	1.30	44	
						SOURCES								
20	11.36	25.00	29.55	13.64	11.36	6.82	0.00	0.00	0.00	2.27	2.09	1.30	43	
21	29.55	20.45	18.18	13.64	6.82	11.36	0.00	0.00	0.00	0.00	1.62	1.67	44	
22	29.55	18.18	27.27	15.91	6.82	2.27	0.00	0.00	0.00	0.00	1.59	1.35	44	
23	65.91	29.55	2.27	2.27	0.00	0.00	0.00	0.00	0.00	0.00	.41	.65	44	
24	47.73	18.18	20.45	6.82	4.55	0.00	0.00	0.00	0.00	2.27	1.00	1.18	43	
25	79.55	11.36	2.27	0.00	2.27	0.00	0.00	0.00	0.00	4.55	.25	.73	42	
26	0.00	13.64	20.45	29.55	22.73	11.36	0.00	0.00	0.00	2.27	2.65	1.21	43	
27	52.27	11.36	11.36	2.27	15.91	4.55	0.00	0.00	0.00	2.27	1.30	1.69	43	
28	11.36	18.18	25.00	25.00	13.64	2.27	0.00	0.00	0.00	0.00	2.23	1.28	44	
29	20.45	9.09	27.55	27.27	11.36	2.27	0.00	0.00	0.00	0.00	2.07	1.55	44	
30	11.36	9.09	4.55	22.73	34.09	13.64	0.00	0.00	0.00	4.55	3.05	1.96	42	
31	25.00	15.91	20.45	6.82	25.00	6.82	0.00	0.00	0.00	0.00	2.11	1.58	44	
32	11.36	40.91	22.73	15.91	4.55	4.55	0.00	0.00	0.00	0.00	1.75	1.25	44	
33	13.64	15.91	27.27	27.27	11.36	2.27	0.00	0.00	0.00	2.27	2.14	1.29	43	
34-A	61.36	0.00	2.27	6.82	11.36	6.82	0.00	2.27	0.00	9.09	1.32	2.03	40	
34-B	0.00	0.00	22.73	2.27	2.27	0.00	0.00	0.00	0.00	72.73	2.25	.60	12	
35	54.55	2.27	11.36	13.64	9.09	9.09	0.00	0.00	0.00	0.00	1.48	1.90	44	
						ACTIVITY								
36	40.91	4.55	9.09	15.91	11.36	18.18	0.00	0.00	0.00	0.00	2.67	1.98	44	
37	22.73	0.00	13.64	22.73	22.73	18.18	0.00	0.00	0.00	0.00	2.77	1.76	44	
38	52.27	6.82	9.09	15.91	11.36	4.55	0.00	0.00	0.00	0.00	1.61	1.68	44	
39	43.18	4.55	6.82	13.64	20.45	11.36	0.00	0.00	0.00	0.00	1.98	1.94	44	
40	0.00	84.09	15.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.82	44	BINOMIAL
						INDIVIDUAL								
41	0.00	76.56	23.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.25	64	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.97	4.32	63	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.45	12.25	62	
44	0.00	23.44	35.94	31.25	0.00	0.00	0.00	0.00	4.69	4.69	2.09	.77	58	
45	0.00	87.50	9.38	0.00	0.00	0.00	0.00	0.00	3.13	0.00	Z =	6.35	62	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.35	.72	55	
51	0.00	16.67	1.67	8.33	1.67	6.67	6.67	11.67	8.33	38.33	6.18	3.03	60	
52	0.00	40.62	21.87	17.19	4.69	3.13	1.56	0.00	1.56	9.38	2.02	1.21	57	

BOSTON (FACE TO FACE) - SITE NO. 0098

NUMBER OF RESPONDENTS = 44

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	52.27	47.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	.51	44	
3	0.00	11.36	34.09	13.64	4.55	0.00	0.00	0.00	0.00	36.36	4.66	3.34	44	
4	0.00	6.82	40.91	40.91	11.36	0.00	0.00	0.00	0.00	0.00	2.57	.78	44	
5	0.00	9.09	86.36	0.00	0.00	0.00	0.00	0.00	0.00	4.55	Z =	-5.25	42	BINOMIAL
6	0.00	2.27	75.00	0.00	0.00	0.00	0.00	0.00	2.27	20.45	Z =	-5.49	34	BINOMIAL
7	0.00	29.55	56.82	0.00	0.00	0.00	0.00	0.00	0.00	13.64	Z =	-1.95	39	BINOMIAL
8	0.00	18.18	43.18	0.00	0.00	0.00	0.00	0.00	4.55	34.09	Z =	-2.12	27	BINOMIAL
9	0.00	40.91	54.55	0.00	0.00	0.00	0.00	0.00	2.27	2.27	Z =	-.93	42	BINOMIAL
10	0.00	6.82	29.55	0.00	0.00	0.00	0.00	0.00	2.27	61.36	Z =	-2.50	16	BINOMIAL
						NOISE								
11	0.00	40.91	52.27	4.55	0.00	0.00	0.00	0.00	0.00	2.27	Z =	-.78	43	BINOMIAL
12-A	0.00	0.00	16.67	55.56	22.22	5.56	0.00	0.00	0.00	0.00	3.17	.76	18	
12-B	0.00	0.00	0.00	39.13	43.48	17.39	0.00	0.00	0.00	0.00	3.78	.72	23	
13	0.00	25.00	72.73	0.00	0.00	0.00	0.00	0.00	0.00	2.27	Z =	-3.20	43	BINOMIAL
14	0.00	6.25	21.87	37.50	9.38	25.00	0.00	0.00	0.00	0.00	3.25	1.22	32	
15	0.00	12.90	21.97	12.90	6.25	43.75	0.00	0.00	3.13	0.00	3.48	1.64	31	
16	0.00	37.50	3.13	3.13	46.87	0.00	0.00	0.00	9.38	0.00	2.66	1.44	29	
17	0.00	25.00	18.75	46.87	0.00	0.00	0.00	0.00	9.38	0.00	2.24	.66	29	
18	0.00	6.25	9.38	81.25	0.00	0.00	0.00	0.00	0.00	3.13	2.77	.55	31	
19	21.87	25.00	12.50	12.50	21.87	6.25	0.00	0.00	0.00	0.00	2.06	1.64	32	
						SOURCES								
20	3.13	37.50	25.00	12.51	12.50	9.38	0.00	0.00	0.00	0.00	2.22	1.39	32	
21	3.13	34.37	31.25	15.62	12.50	3.13	0.00	0.00	0.00	0.00	2.09	1.18	32	
22	12.50	40.62	21.87	15.62	3.13	6.25	0.00	0.00	0.00	0.00	1.75	1.30	32	
23	59.37	37.50	0.00	0.00	3.13	0.00	0.00	0.00	0.00	0.00	.50	.79	32	
24	21.87	46.87	12.50	3.13	9.38	3.13	0.00	0.00	0.00	3.13	1.39	1.31	31	
25	59.37	34.37	6.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.47	.61	32	
26	0.00	21.87	12.50	12.50	31.25	15.62	0.00	0.00	0.00	6.25	3.07	1.44	30	
27	31.25	18.75	12.50	18.75	9.38	6.25	0.00	0.00	3.13	0.00	1.74	1.61	31	
28	0.00	31.25	18.75	28.12	18.75	3.13	0.00	0.00	0.00	0.00	2.44	1.20	32	
29	6.25	31.25	18.75	28.12	9.38	6.25	0.00	0.00	0.00	0.00	2.22	1.32	32	
30	6.25	18.75	9.38	12.50	21.87	31.25	0.00	0.00	0.00	0.00	3.19	1.69	32	
31	12.50	31.25	18.75	15.62	21.87	0.00	0.00	0.00	0.00	0.00	2.03	1.36	32	
32	3.13	40.62	28.12	12.50	6.25	9.38	0.00	0.00	0.00	0.00	2.06	1.22	32	
33	12.50	28.12	15.62	18.75	9.38	15.62	0.00	0.00	0.00	0.00	2.31	1.63	32	
34-A	43.75	28.12	6.25	3.13	0.00	9.38	0.00	3.13	0.00	6.25	1.27	1.84	30	
34-B	0.00	0.00	18.75	6.25	0.00	3.13	0.00	0.00	0.00	71.87	2.56	.96	9	
35	28.12	9.38	18.75	15.62	15.62	12.50	0.00	0.00	0.00	0.00	2.19	1.76	32	
						ACTIVITY								
36	40.62	18.75	3.13	9.38	6.25	18.75	0.00	0.00	0.00	3.13	1.77	1.98	31	
37	18.75	12.50	12.50	9.38	25.00	21.87	0.00	0.00	0.00	0.00	2.75	1.84	32	
38	46.87	15.62	3.13	12.50	9.38	12.50	0.00	0.00	0.00	0.00	1.59	1.87	32	
39	50.00	9.38	0.00	6.25	18.75	15.62	0.00	0.00	0.00	0.00	1.81	2.07	32	
40	0.00	90.62	9.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.13	32	BINOMIAL
						INDIVIDUAL								
41	0.00	88.64	11.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.13	44	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.26	4.52	42	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	35.54	9.94	41	
44	0.00	45.45	25.00	25.00	0.00	0.00	0.00	0.00	0.00	4.55	1.79	.83	42	
45	0.00	79.55	18.18	0.00	0.00	0.00	0.00	0.00	2.27	0.00	Z =	4.12	43	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.41	.83	44	
51	2.38	16.67	0.00	19.05	0.00	7.14	7.14	14.29	14.29	19.05	5.38	2.98	42	
52	0.00	38.64	22.73	22.73	4.55	0.00	0.00	0.00	2.27	9.09	1.92	.94	39	

BOLT BERANEK AND NEWMAN INC. CHICAGO - SITE NO. 0502 EPA 24 SITE SURVEY

NUMBER OF RESPONDENTS = 90

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	70.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	.46	90	
3	0.00	0.00	3.33	6.67	7.78	6.67	5.56	7.78	4.44	57.78	7.34	2.27	90	
4	0.00	25.56	45.56	24.44	4.44	0.00	0.00	0.00	0.00	0.00	2.08	.82	90	
5	0.00	12.22	85.56	0.00	0.00	0.00	0.00	0.00	0.00	2.22	Z =	-7.04	83	BINOMIAL
6	0.00	3.33	66.67	0.00	0.00	0.00	0.00	0.00	13.33	16.67	Z =	-7.18	63	BINOMIAL
7	0.00	7.78	50.00	0.00	0.00	0.00	0.00	0.00	3.33	38.89	Z =	-5.27	52	BINOMIAL
8	0.00	2.22	16.67	0.00	0.00	0.00	0.00	0.00	15.56	65.56	Z =	-9.15	17	BINOMIAL
9	0.00	17.78	80.00	0.00	0.00	0.00	0.00	0.00	2.22	0.00	Z =	-5.97	88	BINOMIAL
10	0.00	0.00	16.67	0.00	0.00	0.00	0.00	0.00	0.00	83.33	Z =	-3.87	15	BINOMIAL
						NOISE								
11	0.00	56.67	27.78	15.56	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.98	90	BINOMIAL
12-A	0.00	0.00	1.96	70.59	21.57	5.88	0.00	0.00	0.00	0.00	3.31	.61	51	
12-B	0.00	0.00	0.00	52.00	28.00	12.00	0.00	0.00	0.00	0.00	3.44	.80	25	
13	0.00	58.89	41.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.69	90	BINOMIAL
14	0.00	0.00	48.65	24.32	16.22	10.81	0.00	0.00	0.00	0.00	2.89	1.05	37	
15	0.00	8.11	13.51	18.92	37.84	21.62	0.00	0.00	2.70	0.00	3.65	1.19	36	
16	0.00	16.92	0.00	2.70	78.38	0.00	0.00	0.00	0.00	0.00	3.41	1.17	37	
17	0.00	21.62	32.43	43.24	0.00	0.00	0.00	0.00	2.70	0.00	2.22	.79	36	
18	0.00	13.51	37.84	43.65	0.00	0.00	0.00	0.00	0.00	0.00	2.35	.71	37	
19	91.89	0.00	2.70	5.41	0.00	0.00	0.00	0.00	0.00	0.00	.22	.74	37	
						SOURCES								
20	43.24	27.03	10.81	8.11	8.11	2.70	0.00	0.00	0.00	0.00	1.19	1.41	37	
21	32.43	24.32	10.22	13.51	13.51	0.00	0.00	0.00	0.00	0.00	1.51	1.41	37	
22	40.54	32.43	10.22	10.81	0.00	0.00	0.00	0.00	0.00	0.00	.97	1.66	37	
23	45.95	37.84	13.51	2.70	0.00	0.00	0.00	0.00	0.00	0.00	.73	.79	37	
24	83.78	2.70	2.70	2.70	5.41	2.70	0.00	0.00	0.00	0.00	.51	1.29	37	
25	35.14	43.24	5.41	8.11	8.11	2.70	0.00	0.00	0.00	0.00	1.22	1.36	37	
26	8.11	0.00	21.62	21.62	35.14	8.11	0.00	0.00	2.70	2.70	3.06	1.61	35	
27	32.43	10.81	10.21	8.11	21.62	2.70	0.00	0.00	2.70	10.81	1.81	1.72	32	
28	8.11	32.43	24.32	13.51	10.81	0.00	0.00	0.00	0.00	10.81	1.85	1.16	33	
29	8.11	40.54	8.11	18.92	10.81	2.70	0.00	0.00	0.00	10.81	1.91	1.33	33	
30	8.11	24.32	8.11	18.92	18.92	10.81	0.00	0.00	0.00	10.81	2.55	1.58	33	
31	5.41	2.11	5.41	16.22	35.14	18.92	0.00	0.00	0.00	10.81	3.39	1.43	33	
32	32.43	40.54	0.00	8.11	8.11	0.00	0.00	0.00	0.00	10.81	1.09	1.24	33	
33	2.70	32.43	10.81	29.73	10.81	2.70	0.00	0.00	0.00	10.81	2.24	1.23	33	
34-A	56.76	2.70	2.11	2.70	10.22	5.41	0.00	2.70	0.00	5.41	1.46	2.02	35	
34-B	0.00	0.00	29.73	2.70	5.41	0.00	0.00	0.00	0.00	62.16	2.36	.72	14	
35	54.05	2.70	2.70	16.22	21.62	2.70	0.00	0.00	0.00	0.00	1.57	1.81	37	
						ACTIVITY								
36	75.68	0.00	0.00	2.70	16.92	2.70	0.00	0.00	0.00	0.00	.97	1.73	37	
37	54.05	2.70	2.70	10.81	21.62	8.11	0.00	0.00	0.00	0.00	1.68	1.95	37	
38	59.46	2.70	10.81	0.00	27.03	0.00	0.00	0.00	0.00	0.00	1.32	1.74	37	
39	45.95	10.81	8.11	5.41	24.32	5.41	0.00	0.00	0.00	0.00	1.66	1.83	37	
40	0.00	86.49	13.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.30	37	BINOMIAL
						INDIVIDUAL								
41	0.00	46.67	53.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.63	90	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.93	5.33	66	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.64	11.35	85	
44	0.00	51.11	25.57	18.89	0.00	0.00	0.00	0.00	2.22	1.11	1.67	.78	87	
45	0.00	93.33	5.56	0.00	0.00	0.00	0.00	0.00	1.11	0.00	Z =	8.37	89	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.08	1.79	89	
51	0.00	12.50	0.00	2.50	3.75	13.75	6.25	12.50	21.25	27.50	6.46	2.62	80	
52	0.00	15.56	16.67	12.22	12.22	7.78	3.33	2.22	11.11	18.89	2.98	1.64	63	

CHICAGO - SITE NO. 0503

NUMBER OF RESPONDENTS = 79

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	65.82	34.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	.47	79	
3	0.00	0.00	6.33	2.53	3.80	2.53	3.80	0.00	1.27	79.75	7.99	2.17	79	
4	0.00	10.13	22.78	44.30	12.66	7.59	0.00	0.00	0.00	2.53	2.84	1.03	77	
5	0.00	10.13	72.15	0.00	0.00	0.00	0.00	0.00	0.00	17.72	Z =	-6.00	65	BINOMIAL
6	0.00	3.80	56.96	0.00	0.00	0.00	0.00	0.00	7.59	31.65	Z =	-6.06	48	BINOMIAL
7	0.00	2.53	69.62	0.00	0.00	0.00	0.00	0.00	5.06	22.78	Z =	-7.02	57	BINOMIAL
8	0.00	0.00	32.91	0.00	0.00	0.00	0.00	0.00	20.25	46.84	Z =	-5.10	26	BINOMIAL
9	0.00	77.22	25.25	0.00	0.00	0.00	0.00	0.00	1.27	1.27	Z =	5.13	77	BINOMIAL
10	0.00	1.27	74.68	0.00	0.00	0.00	0.00	0.00	1.27	22.78	Z =	-7.49	60	BINOMIAL
NOISE														
11	0.00	59.49	27.85	12.66	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.01	79	BINOMIAL
12-A	0.00	0.00	8.51	57.45	25.53	6.38	0.00	0.00	2.13	0.00	2.30	.72	45	
12-B	0.00	0.00	0.00	40.91	45.45	13.64	0.00	0.00	0.00	0.00	3.73	.69	22	
13	0.00	53.16	46.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.56	79	BINOMIAL
14	0.00	0.00	29.73	43.24	21.62	5.41	0.00	0.00	0.00	0.00	3.03	.65	37	
15	0.00	21.62	8.11	13.51	27.03	27.03	0.00	0.00	2.70	0.00	3.31	1.51	36	
16	0.00	18.92	0.00	5.41	75.68	0.00	0.00	0.00	0.00	0.00	3.38	1.17	37	
17	0.00	27.03	48.65	24.32	0.00	0.00	0.00	0.00	0.00	0.00	1.97	.72	37	
18	0.00	21.62	29.73	48.65	0.00	0.00	0.00	0.00	0.00	0.00	2.27	.79	37	
19	81.08	13.51	2.70	0.00	0.00	0.00	0.00	0.00	0.00	2.70	.19	.46	36	
SOURCES														
20	35.14	38.14	8.11	5.41	10.81	5.41	0.00	0.00	0.00	0.00	1.38	1.83	37	
21	18.92	29.73	10.81	13.51	21.62	5.41	0.00	0.00	0.00	0.00	2.05	1.59	37	
22	27.03	62.16	5.41	5.41	0.00	0.00	0.00	0.00	0.00	0.00	.69	.73	37	
23	48.65	40.54	8.11	2.70	0.00	0.00	0.00	0.00	0.00	0.00	.65	.74	37	
24	54.86	27.03	2.70	0.00	0.00	5.41	0.00	0.00	0.00	0.00	.59	1.17	37	
25	29.73	62.16	0.00	2.70	5.41	0.00	0.00	0.00	0.00	0.00	.92	.94	37	
26	24.32	21.62	2.70	16.22	21.62	5.41	0.00	0.00	5.41	0.00	2.09	1.70	35	
27	56.76	5.41	2.70	2.70	5.41	2.70	0.00	0.00	0.00	24.32	.71	1.44	28	
28	10.81	27.03	5.41	13.51	18.92	0.00	0.00	0.00	0.00	24.32	2.04	1.45	28	
29	40.54	21.62	5.41	2.70	0.00	2.70	0.00	0.00	0.00	27.03	.74	1.14	27	
30	43.24	18.92	0.00	10.81	0.00	0.00	0.00	0.00	0.00	27.03	.70	1.05	27	
31	13.51	16.22	5.00	16.22	16.22	5.11	0.00	0.00	0.00	24.32	2.00	1.79	23	
32	64.44	8.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.03	.11	.31	27	
33	48.65	18.92	5.41	2.70	0.00	0.00	0.00	0.00	0.00	27.03	.48	.79	27	
34-A	67.57	5.41	2.70	5.41	13.51	2.70	0.00	0.00	0.00	2.70	.97	1.62	36	
34-B	0.00	0.00	13.51	5.41	2.70	2.70	0.00	0.00	0.00	75.68	2.70	1.03	9	
35	64.86	2.70	2.70	13.51	8.11	8.11	0.00	0.00	0.00	0.00	1.22	1.79	37	
ACTIVITY														
36	59.46	0.00	8.11	8.11	18.92	5.41	0.00	0.00	0.00	0.00	1.43	1.84	37	
37	56.74	0.00	5.41	8.11	21.62	8.11	0.00	0.00	0.00	0.00	1.62	1.95	37	
38	64.86	10.81	8.11	5.41	5.41	5.41	0.00	0.00	0.00	0.00	.92	1.51	37	
39	59.46	5.41	5.41	13.51	8.11	8.11	0.00	0.00	0.00	0.00	1.30	1.77	37	
40	0.00	89.19	10.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.84	37	BINOMIAL
INDIVIDUAL														
41	0.00	54.43	45.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.79	79	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.05	5.51	79	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.19	11.96	77	
44	0.00	44.30	20.11	22.78	0.00	0.00	0.00	0.00	3.80	0.00	1.78	.80	76	
45	0.00	94.94	3.80	0.00	0.00	0.00	0.00	0.00	1.27	0.00	Z =	8.15	78	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	1.75	79	
51	1.41	18.31	0.00	5.63	2.82	15.49	14.08	18.31	15.49	8.45	5.37	2.65	71	
52	0.00	20.25	21.52	21.52	10.13	0.00	0.00	0.00	8.86	17.72	2.29	1.02	58	

CHICAGO - SITE NO. 0506

NUMBER OF RESPONDENTS = 65

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	69.23	30.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	.46	65	
3	0.00	3.13	4.69	7.81	4.69	7.81	3.13	4.69	0.00	64.06	7.22	2.61	64	
4	0.00	10.77	13.85	40.00	15.38	20.00	0.00	0.00	0.00	0.00	3.20	1.22	65	
5	0.00	6.15	72.31	0.00	0.00	0.00	0.00	0.00	6.15	15.38	Z =	-6.62	51	BINOMIAL
6	0.00	1.54	56.92	0.00	0.00	0.00	0.00	0.00	6.15	35.38	Z =	-5.04	38	BINOMIAL
7	0.00	0.00	73.85	0.00	0.00	0.00	0.00	0.00	7.69	18.46	Z =	-6.93	42	BINOMIAL
8	0.00	1.54	36.92	0.00	0.00	0.00	0.00	0.00	18.46	43.08	Z =	-6.69	25	BINOMIAL
9	0.00	67.69	29.23	0.00	0.00	0.00	0.00	0.00	1.54	1.54	Z =	3.15	63	BINOMIAL
10	0.00	0.00	67.69	0.00	0.00	0.00	0.00	0.00	0.00	32.31	Z =	-6.63	44	BINOMIAL
						NOISE								
11	0.00	30.46	50.77	18.77	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.05	65	BINOMIAL
12-A	0.00	0.00	12.00	52.00	28.00	8.00	0.00	0.00	0.00	0.00	3.32	.79	25	
12-B	0.00	0.00	9.09	30.30	45.45	15.15	0.00	0.00	0.00	0.00	3.67	.84	33	
13	0.00	44.23	54.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.12	65	BINOMIAL
14	0.00	0.00	15.10	39.36	39.39	6.06	0.00	0.00	0.00	0.00	3.33	.94	33	
15	0.00	15.15	6.06	9.09	21.21	45.45	0.00	0.00	3.03	0.00	3.78	1.47	32	
16	0.00	21.21	0.00	3.03	72.73	0.00	0.00	0.00	3.03	0.00	3.31	1.24	32	
17	0.00	33.33	48.48	12.12	0.00	0.00	0.00	0.00	6.06	0.00	1.77	.66	31	
18	0.00	30.30	39.39	30.30	0.00	0.00	0.00	0.00	0.00	0.00	2.00	.75	33	
19	93.94	3.03	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00	.15	.70	33	
						SOURCES								
20	27.27	21.21	9.09	18.18	24.24	0.00	0.00	0.00	0.00	0.00	1.91	1.36	33	
21	12.12	12.12	12.12	6.06	45.45	12.12	0.00	0.00	0.00	0.00	2.97	1.62	33	
22	42.42	39.39	12.12	0.00	6.06	0.00	0.00	0.00	0.00	0.00	.88	1.04	33	
23	69.70	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.30	.46	33	
24	66.67	6.06	6.06	3.03	18.18	0.00	0.00	0.00	0.00	0.00	1.00	1.58	33	
25	44.44	33.33	9.09	3.03	6.06	0.00	0.00	0.00	0.00	3.03	.84	1.12	32	
26	21.21	15.15	15.15	15.15	30.30	0.00	0.00	0.00	0.00	0.00	2.18	1.53	33	
27	63.64	3.03	0.00	3.03	6.06	0.00	0.00	0.00	3.03	21.21	.48	1.20	25	
28	18.15	12.12	3.03	12.12	30.30	3.03	0.00	0.00	0.00	21.21	2.42	1.71	26	
29	51.52	15.15	3.03	3.00	9.09	0.00	0.00	0.00	0.00	21.21	.73	1.29	26	
30	45.45	21.21	0.00	3.03	9.09	0.00	0.00	0.00	0.00	21.21	.85	1.32	26	
31	33.33	9.09	6.06	12.12	18.18	0.00	0.00	0.00	0.00	21.21	1.55	1.66	26	
32	60.61	12.12	0.00	0.00	6.06	0.00	0.00	0.00	0.00	21.21	.46	1.08	26	
33	33.33	15.15	15.15	9.09	3.03	0.00	0.00	0.00	0.00	24.24	1.12	1.21	25	
34-A	57.58	0.00	3.03	3.03	15.15	3.03	0.00	3.03	0.00	15.15	1.32	2.05	26	
34-B	0.00	0.00	21.21	0.00	9.09	0.00	0.00	0.00	0.00	69.70	2.60	.92	10	
35	60.61	0.00	3.03	15.15	18.18	0.00	0.00	0.00	0.00	3.03	1.28	1.70	32	
						ACTIVITY								
36	60.61	0.00	6.06	9.09	21.21	0.00	0.00	0.00	0.00	3.03	1.28	1.72	32	
37	42.42	0.00	3.03	6.06	42.42	6.06	0.00	0.00	0.00	0.00	2.24	1.69	33	
38	66.67	0.00	6.06	9.09	15.15	0.00	0.00	0.00	0.00	3.03	1.03	1.59	32	
39	63.64	0.00	6.06	6.06	18.18	0.00	0.00	0.00	3.03	3.03	1.10	1.65	31	
40	0.00	87.88	12.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.58	35	BINOMIAL
						INDIVIDUAL								
41	0.00	63.08	36.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.11	65	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.79	5.33	63	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.40	11.89	63	
44	0.00	52.31	27.69	16.92	0.00	0.00	0.00	0.00	3.08	0.00	1.63	.76	63	
45	0.00	86.15	13.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.83	65	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	2.16	64	
51	1.85	14.81	0.00	14.81	9.26	18.52	5.56	18.52	5.56	11.11	4.96	2.57	54	
52	0.00	24.62	21.54	18.46	7.69	3.08	0.00	0.00	7.69	16.92	2.24	1.13	49	

NUMBER OF RESPONDENTS = 82

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
	RESPONSE CATEGORIES													
NEIGHBORHOOD														
2	0.00	80.49	14.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	.40	82	
3	0.00	2.44	24.39	14.63	7.32	12.20	7.32	2.44	6.10	23.17	5.04	2.77	82	
4	0.00	1.22	15.29	57.32	17.07	6.10	0.00	0.00	0.00	0.00	3.09	.60	82	
5	0.00	2.44	75.05	0.00	0.00	0.00	0.00	0.00	1.22	18.29	Z =	-7.63	66	BINOMIAL
6	0.00	1.22	46.34	0.00	0.00	0.00	0.00	0.00	15.85	36.59	Z =	-5.02	39	BINOMIAL
7	0.00	3.66	76.83	0.00	0.00	0.00	0.00	0.00	6.10	13.41	Z =	-7.39	66	BINOMIAL
8	0.00	2.44	28.05	0.00	0.00	0.00	0.00	0.00	25.61	43.90	Z =	-4.20	25	BINOMIAL
9	0.00	25.61	62.20	0.00	0.00	0.00	0.00	0.00	12.20	0.00	Z =	-3.54	72	BINOMIAL
10	0.00	0.00	25.61	0.00	0.00	0.00	0.00	0.00	0.00	74.39	Z =	-4.58	21	BINOMIAL
NOISE														
11	0.00	34.15	45.12	20.73	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.12	82	BINOMIAL
12-A	0.00	0.00	7.14	64.29	21.43	7.14	0.00	0.00	0.00	0.00	3.29	.70	28	
12-B	0.00	0.00	16.22	37.84	40.54	5.41	0.00	0.00	0.00	0.00	3.35	.81	37	
13	0.00	41.46	56.10	0.00	0.00	0.00	0.00	0.00	0.00	2.44	Z =	-1.34	80	BINOMIAL
14	0.00	0.00	15.57	26.09	45.65	6.70	0.00	0.00	0.00	0.00	3.43	.69	46	
15	0.00	8.70	8.70	8.70	41.30	30.43	0.00	0.00	2.17	0.00	3.78	1.23	45	
16	0.00	17.39	0.00	6.52	73.91	0.00	0.00	0.00	2.17	0.00	3.40	1.14	45	
17	0.00	19.57	58.70	21.74	0.00	0.00	0.00	0.00	0.00	0.00	2.02	.64	46	
18	0.00	10.87	15.22	73.91	0.00	0.00	0.00	0.00	0.00	0.00	2.63	.67	46	
19	71.74	10.87	0.00	6.52	6.52	4.35	0.00	0.00	0.00	0.00	.78	1.49	46	
SOURCES														
20	6.70	17.39	17.39	15.22	32.61	8.70	0.00	0.00	0.00	0.00	2.72	1.59	46	
21	36.96	21.74	8.70	4.35	28.26	0.00	0.00	0.00	0.00	0.00	1.65	1.66	46	
22	45.65	28.26	13.04	4.35	6.70	0.00	0.00	0.00	0.00	0.00	1.02	1.24	46	
23	67.39	13.04	15.22	0.00	0.00	0.00	0.00	0.00	4.35	0.00	.65	.75	46	
24	32.61	8.70	8.92	13.04	34.78	4.35	0.00	0.00	0.00	0.00	2.22	1.50	46	
25	78.26	13.04	6.52	2.17	0.00	0.00	0.00	0.00	0.00	0.00	.23	.69	46	
26	30.43	10.87	21.74	13.04	17.39	6.52	0.00	0.00	0.00	0.00	1.96	1.65	46	
27	41.30	10.87	2.17	2.17	13.04	0.00	0.00	0.00	0.00	30.43	1.96	1.56	32	
28	2.17	19.57	15.04	15.22	15.22	4.35	0.00	0.00	0.00	30.43	2.50	1.35	32	
29	43.46	17.39	2.17	4.35	2.17	0.00	0.00	0.00	0.00	30.43	.63	1.02	32	
30	41.30	13.04	2.17	8.70	4.35	0.00	0.00	0.00	0.00	30.43	.88	1.29	32	
31	10.87	19.57	6.52	13.04	19.57	0.00	0.00	0.00	0.00	30.43	2.16	1.48	32	
32	52.17	10.87	4.35	2.17	0.00	0.00	0.00	0.00	0.00	30.43	.38	.74	32	
33	6.52	34.78	10.87	13.04	4.35	0.00	0.00	0.00	0.00	30.43	1.63	1.08	32	
34-A	69.87	2.17	4.35	0.00	23.91	2.17	0.00	0.00	0.00	6.52	1.26	1.82	43	
34-B	0.00	0.00	15.22	0.00	17.39	0.00	0.00	0.00	0.00	67.39	3.07	1.00	15	
35	60.87	4.35	0.00	15.22	19.57	0.00	0.00	0.00	0.00	0.00	1.28	1.70	46	
ACTIVITY														
36	60.87	0.00	4.35	8.70	23.91	2.17	0.00	0.00	0.00	0.00	1.41	1.82	46	
37	39.13	0.00	6.52	10.87	34.78	8.70	0.00	0.00	0.00	0.00	2.28	1.94	46	
38	56.52	2.17	10.87	6.52	23.91	0.00	0.00	0.00	0.00	0.00	1.39	1.71	46	
39	34.78	6.52	4.35	19.57	26.09	6.52	0.00	0.00	2.17	0.00	2.16	1.83	46	
40	0.00	82.61	17.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.52	46	BINOMIAL
INDIVIDUAL														
41	0.00	92.68	7.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.73	82	BINOMIAL
42	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.57	4.65	81	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	42.35	9.34	77	
44	0.00	51.22	24.39	20.73	0.00	0.00	0.00	0.00	3.66	0.00	1.68	.80	79	
45	0.00	92.65	4.88	0.00	0.00	0.00	0.00	0.00	2.44	0.00	Z =	8.05	80	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.37	2.41	82	
51	8.96	26.87	1.49	16.42	11.94	16.42	1.49	8.96	7.46	0.00	3.46	2.44	67	
52	0.00	47.56	25.61	8.54	0.00	0.00	0.00	0.00	10.98	7.32	1.52	.68	67	

LOS ANGELES - SITE NO. 1601

NUMBER OF RESPONDENTS = 77

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	55.94	44.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	.50	77	
3	0.00	0.00	9.21	13.16	11.84	11.84	10.53	2.63	3.95	36.84	6.09	2.60	76	
4	0.00	41.55	53.25	2.60	1.30	1.30	0.00	0.00	0.00	0.00	1.60	.71	77	
5	0.00	10.39	88.31	0.00	0.00	0.00	0.00	0.00	1.30	0.00	Z =	-6.88	78	BINOMIAL
6	0.00	10.34	63.64	0.00	0.00	0.00	0.00	0.00	24.68	1.30	Z =	-5.45	57	BINOMIAL
7	0.00	25.97	42.86	0.00	0.00	0.00	0.00	0.00	31.17	0.00	Z =	-1.79	53	BINOMIAL
8	0.00	12.99	27.27	0.00	0.00	0.00	0.00	0.00	57.14	2.60	Z =	-1.98	31	BINOMIAL
9	0.00	22.08	75.32	0.00	0.00	0.00	0.00	0.00	2.60	0.00	Z =	-4.73	75	BINOMIAL
10	0.00	2.60	19.48	0.00	0.00	0.00	0.00	0.00	2.60	75.32	Z =	-3.15	17	BINOMIAL
						NOISE								
11	0.00	55.74	38.36	2.60	0.00	0.00	0.00	0.00	0.00	1.30	Z =	2.09	76	BINOMIAL
12-A	0.00	0.00	2.17	56.52	32.61	8.70	0.00	0.00	0.00	0.00	3.46	.68	46	
12-B	0.00	0.00	10.71	57.14	17.86	14.29	0.00	0.00	0.00	0.00	3.36	.85	28	
13	0.00	64.94	35.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.62	77	BINOMIAL
14	0.00	3.70	22.22	29.63	33.33	11.11	0.00	0.00	0.00	0.00	3.26	1.04	27	
15	0.00	7.41	25.93	7.41	29.63	25.93	0.00	0.00	0.00	3.70	3.42	1.34	25	
16	0.00	70.27	3.70	0.00	18.92	0.00	0.00	0.00	3.70	3.70	1.64	1.20	25	
17	0.00	18.52	37.04	40.74	0.00	0.00	0.00	0.00	0.00	3.70	2.23	.75	26	
18	0.00	11.11	40.74	44.44	0.00	0.00	0.00	0.00	0.00	3.70	2.35	.88	26	
19	37.04	14.81	7.41	7.41	25.93	3.70	0.00	0.00	0.00	3.70	1.61	1.78	26	
						SOURCES								
20	33.33	37.04	11.11	7.41	7.41	0.00	0.00	0.00	0.00	3.70	1.15	1.20	26	
21	25.93	25.93	25.93	11.11	3.70	3.70	0.00	0.00	0.00	3.70	1.80	1.31	26	
22	33.33	29.63	15.52	11.11	3.70	0.00	0.00	0.00	0.00	3.70	1.19	1.14	26	
23	18.52	25.93	11.11	22.22	7.41	11.11	0.00	0.00	0.00	3.70	2.00	1.62	26	
24	62.96	14.81	3.70	3.70	7.41	0.00	0.00	0.00	0.00	7.41	.40	1.22	25	
25	44.44	22.22	11.11	3.70	14.81	0.00	0.00	0.00	0.00	3.70	1.19	1.44	25	
26	7.41	0.00	14.81	25.93	33.33	7.41	0.00	0.00	0.00	11.11	3.13	1.27	24	
27	29.63	7.41	11.11	11.11	7.41	18.52	0.00	0.00	0.00	14.81	2.17	1.97	35	
28	14.81	18.52	22.22	7.41	7.41	14.81	0.00	0.00	0.00	14.81	2.22	1.89	23	
29	25.93	11.11	25.93	7.41	11.11	3.70	0.00	0.00	0.00	14.81	1.74	1.51	23	
30	25.93	7.41	13.52	14.81	14.81	3.70	0.00	0.00	0.00	11.11	2.00	1.58	24	
31	18.52	7.41	18.52	7.41	22.22	14.81	0.00	0.00	0.00	11.11	2.65	1.75	24	
32	51.85	14.81	3.70	11.11	3.70	3.70	0.00	0.00	0.00	11.11	1.00	1.47	24	
33	37.04	0.00	11.11	22.22	11.11	7.41	0.00	0.00	0.00	11.11	1.92	1.78	24	
34-A	40.74	11.11	1.11	7.41	0.00	3.70	0.00	11.11	0.00	14.81	1.78	2.39	23	
34-B	0.00	0.00	25.93	0.00	11.11	0.00	0.00	0.00	0.00	62.96	2.60	.92	10	
35	33.33	0.00	18.52	11.11	25.93	7.41	0.00	0.00	0.00	3.70	2.19	1.80	26	
						ACTIVITY								
36	51.85	0.00	7.41	11.11	22.22	3.70	0.00	0.00	0.00	3.70	1.62	1.84	25	
37	29.63	3.70	3.70	7.41	40.74	11.11	0.00	0.00	0.00	3.70	2.62	1.92	25	
38	37.04	3.70	14.81	7.41	25.93	7.41	0.00	0.00	0.00	3.70	2.04	1.85	26	
39	33.33	0.00	14.81	14.81	22.93	7.41	0.00	0.00	0.00	3.70	2.23	1.80	26	
40	0.00	70.37	25.93	0.00	0.00	0.00	0.00	0.00	0.00	3.70	Z =	4.53	26	BINOMIAL
						INDIVIDUAL								
41	0.00	71.43	28.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.76	77	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.32	4.09	76	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	33.34	9.68	74	
44	0.00	27.27	44.16	27.27	0.00	0.00	0.00	0.00	1.30	0.00	2.00	.74	75	
45	0.00	84.81	7.79	0.00	0.00	0.00	0.00	0.00	0.00	2.60	Z =	7.27	75	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.25	.65	77	
51	3.13	0.00	0.00	1.56	3.13	4.69	15.62	6.25	29.69	35.94	7.95	3.95	64	
52	0.00	11.69	7.79	18.18	11.69	5.19	2.60	5.19	2.60	35.06	3.31	1.73	48	

LOS ANGELES (FACE TO FACE) SITE NO. 1601

NUMBER OF RESPONDENTS = 50

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.00	38.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	50	
3	0.00	6.00	20.00	14.00	6.00	8.00	10.00	6.00	2.00	28.00	5.22	2.69	50	
4	0.00	46.00	44.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64	.66	50	
5	0.00	16.00	84.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-4.61	50	BINOMIAL
6	0.00	8.00	72.00	0.00	0.00	0.00	0.00	0.00	20.00	0.00	Z =	-5.06	40	BINOMIAL
7	0.00	28.00	52.00	0.00	0.00	0.00	0.00	0.00	16.00	4.00	Z =	-1.90	40	BINOMIAL
8	0.00	8.00	38.00	0.00	0.00	0.00	0.00	0.00	48.00	6.00	Z =	-3.13	23	BINOMIAL
9	0.00	26.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-3.39	50	BINOMIAL
10	0.00	0.00	26.00	0.00	0.00	0.00	0.00	0.00	0.00	74.00	Z =	-3.61	13	BINOMIAL
						NOISE								
11	0.00	60.00	36.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.57	50	BINOMIAL
12-A	0.00	0.00	13.33	50.00	33.33	3.33	0.00	0.00	0.00	0.00	3.27	.73	30	
12-B	0.00	0.00	10.53	47.37	36.84	5.26	0.00	0.00	0.00	0.00	3.37	.74	19	
13	0.00	16.00	84.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-4.61	50	BINOMIAL
14	0.00	14.29	33.33	33.33	16.67	2.38	0.00	0.00	0.00	0.00	2.60	1.00	42	
15	0.00	28.57	14.67	11.90	11.90	30.95	0.00	0.00	0.00	0.00	3.00	1.63	42	
16	0.00	73.81	0.00	0.00	21.43	2.36	0.00	0.00	2.38	0.00	1.76	1.34	41	
17	0.00	28.57	26.19	45.24	0.00	0.00	0.00	0.00	0.00	0.00	2.17	.84	42	
18	0.00	38.10	11.90	47.62	0.00	0.00	0.00	0.00	2.38	0.00	2.10	.93	41	
19	42.86	4.76	28.19	19.05	2.38	4.76	0.00	0.00	0.00	0.00	1.48	1.48	42	
						SOURCES								
20	26.19	38.10	11.90	4.76	11.90	7.14	0.00	0.00	0.00	0.00	1.90	1.56	42	
21	23.81	40.48	23.81	4.76	4.76	2.38	0.00	0.00	0.00	0.00	1.95	1.17	42	
22	16.67	42.86	28.57	4.76	7.14	0.00	0.00	0.00	0.00	0.00	1.43	1.05	42	
23	9.52	23.81	33.33	11.90	16.67	4.76	0.00	0.00	0.00	0.00	2.17	1.34	42	
24	59.52	21.43	9.52	4.76	4.76	0.00	0.00	0.00	0.00	0.00	.74	1.11	42	
25	23.81	50.00	19.57	4.76	4.76	0.00	0.00	0.00	0.00	0.00	1.17	1.00	42	
26	4.76	11.90	33.33	28.19	11.90	11.90	0.00	0.00	0.00	0.00	2.64	1.31	42	
27	9.52	26.19	14.29	16.67	19.05	7.14	0.00	0.00	0.00	7.14	2.33	1.51	39	
28	0.00	40.48	23.81	19.05	4.76	4.76	0.00	0.00	0.00	7.14	2.03	1.14	39	
29	7.14	42.86	29.19	11.90	2.38	2.38	0.00	0.00	0.00	7.14	1.84	1.05	39	
30	0.00	30.95	19.05	19.05	9.52	14.29	0.00	0.00	0.00	7.14	2.54	1.43	39	
31	4.76	21.43	11.90	19.05	21.43	14.29	0.00	0.00	0.00	7.14	2.79	1.52	39	
32	21.43	47.62	0.00	16.67	2.38	4.76	0.00	0.00	0.00	7.14	1.41	1.38	39	
33	11.90	33.33	28.19	4.76	11.90	4.76	0.00	0.00	0.00	7.14	1.85	1.37	39	
34-A	57.14	2.38	19.05	9.52	0.00	2.38	0.00	7.14	0.00	2.38	1.34	2.02	41	
34-B	0.00	0.00	38.10	0.00	2.38	0.00	0.00	0.00	0.00	59.52	2.12	.47	17	
35	78.57	7.14	7.14	2.38	0.00	4.76	0.00	0.00	0.00	0.00	.52	1.22	42	
						ACTIVITY								
36	71.43	7.14	11.90	2.38	0.00	7.14	0.00	0.00	0.00	0.00	.74	1.42	42	
37	52.38	4.76	11.90	4.76	11.90	14.29	0.00	0.00	0.00	0.00	1.62	1.65	42	
38	73.81	9.52	7.14	7.14	2.38	0.00	0.00	0.00	0.00	0.00	.55	1.05	42	
39	61.90	2.38	11.90	11.90	2.38	9.52	0.00	0.00	0.00	0.00	1.19	1.71	42	
40	0.00	73.81	26.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.76	42	BINOMIAL
						INDIVIDUAL								
41	0.00	78.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.96	50	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.50	4.67	50	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.30	6.53	50	
44	0.00	28.00	58.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	.65	50	
45	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.07	50	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.56	.90	50	
51	0.00	0.00	0.00	0.00	0.00	0.00	4.00	8.00	36.00	52.00	8.36	.79	50	
52	0.00	6.00	10.00	20.00	14.00	8.00	8.00	4.00	2.00	28.00	3.69	1.62	35	

LOS ANGELES - SITE NO. 1607

NUMBER OF RESPONDENTS = 87

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	65.52	34.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	.48	87	
3	0.00	1.15	4.60	17.24	6.05	6.90	9.20	3.45	4.60	44.83	6.48	2.64	87	
4	0.00	62.07	33.33	3.45	1.15	0.00	0.00	0.00	0.00	0.00	1.44	.62	87	
5	0.00	0.00	86.51	0.00	0.00	0.00	0.00	0.00	3.45	0.00	Z =	-7.64	84	BINOMIAL
6	0.00	9.23	77.01	0.00	0.00	0.00	0.00	0.00	13.79	0.00	Z =	-6.81	75	BINOMIAL
7	0.00	16.09	57.47	0.00	0.00	0.00	0.00	0.00	25.29	1.15	Z =	-4.50	64	BINOMIAL
8	0.00	8.05	15.39	0.00	0.00	0.00	0.00	0.00	60.97	4.60	Z =	-1.88	23	BINOMIAL
9	0.00	12.64	87.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-6.97	87	BINOMIAL
10	0.00	1.15	10.34	0.00	0.00	0.00	0.00	0.00	0.00	88.51	Z =	-2.53	10	BINOMIAL
						NOISE								
11	0.00	66.67	28.74	4.60	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.62	87	BINOMIAL
12-A	0.00	0.00	10.34	29.31	51.72	3.45	0.00	0.00	0.00	5.17	3.51	.74	55	
12-B	0.00	0.00	24.00	56.00	12.00	4.00	0.00	0.00	4.00	0.00	2.96	.73	24	
13	0.00	62.07	37.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.25	87	BINOMIAL
14	0.00	3.13	31.25	43.75	9.09	12.12	0.00	0.00	0.00	3.03	2.97	1.02	32	
15	0.00	30.34	6.06	18.18	24.24	12.12	0.00	0.00	0.00	3.03	2.69	1.49	32	
16	0.00	36.36	0.00	0.00	60.61	0.00	0.00	0.00	0.00	3.03	2.86	1.45	32	
17	0.00	26.26	60.61	6.06	0.00	0.00	0.00	0.00	3.03	6.06	1.83	.54	30	
18	0.00	30.34	24.24	33.33	0.00	0.00	0.00	0.00	3.03	3.03	1.97	.86	31	
19	54.55	15.15	15.15	6.06	6.06	0.00	0.00	0.00	0.00	3.03	.91	1.23	32	
						SOURCES								
20	51.52	9.09	9.09	15.15	9.09	0.00	0.00	0.00	0.00	6.06	1.16	1.46	31	
21	21.21	15.15	12.12	21.21	18.18	9.09	0.00	0.00	0.00	3.03	2.28	1.66	32	
22	33.33	30.30	9.09	12.12	6.06	3.03	0.00	0.00	0.00	6.06	1.32	1.40	31	
23	21.21	24.24	15.15	6.06	15.15	15.15	0.00	0.00	0.00	3.03	2.16	1.79	32	
24	57.58	12.12	0.00	6.06	12.12	9.09	0.00	0.00	0.00	3.03	1.28	1.84	32	
25	57.58	15.15	6.06	9.09	6.06	0.00	0.00	0.00	0.00	3.03	.84	1.25	32	
26	15.15	6.06	15.15	27.27	21.21	9.09	0.00	0.00	0.00	6.06	2.65	1.54	31	
27	51.52	24.24	3.03	9.09	6.06	3.03	0.00	0.00	0.00	3.03	1.00	1.41	32	
28	48.48	30.30	3.03	9.09	9.09	0.00	0.00	0.00	0.00	3.03	1.03	1.31	32	
29	63.64	24.24	0.00	6.06	3.03	0.00	0.00	0.00	0.00	3.03	.56	1.00	32	
30	57.58	21.21	3.03	3.03	6.06	3.03	0.00	0.00	0.00	6.06	.81	1.35	31	
31	9.09	6.06	6.06	15.15	33.33	27.27	0.00	0.00	0.00	3.03	3.44	1.56	32	
32	78.78	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.03	.31	.58	32	
33	57.58	6.06	15.15	6.06	9.09	3.03	0.00	0.00	0.00	3.03	1.09	1.53	32	
34-A	84.85	6.06	3.03	0.00	0.00	3.03	0.00	0.00	0.00	3.03	.28	.94	32	
34-B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.94	3.00	1.00	2	
35	51.52	0.00	3.03	9.09	6.00	3.03	0.00	0.00	0.00	3.03	.50	1.22	32	
						ACTIVITY								
36	63.64	0.00	12.12	6.09	9.09	3.03	0.00	0.00	0.00	3.03	1.06	1.58	32	
37	42.42	0.00	6.06	15.15	12.12	21.21	0.00	0.00	0.00	3.03	2.19	2.08	32	
38	63.64	0.00	6.06	12.12	12.12	3.03	0.00	0.00	0.00	3.03	1.16	1.68	32	
39	48.48	0.00	12.12	24.24	9.09	3.03	0.00	0.00	0.00	3.03	1.53	1.64	32	
40	6.06	75.76	21.21	0.00	0.00	0.00	0.00	0.00	0.00	3.03	Z =	5.54	32	BINOMIAL
						INDIVIDUAL								
41	0.00	29.89	66.97	0.00	0.00	0.00	0.00	0.00	0.00	1.15	Z =	-3.67	86	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.86	5.67	85	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.70	13.51	81	
44	0.00	25.29	52.87	21.84	0.00	0.00	0.00	0.00	0.00	0.00	1.97	.69	87	
45	0.00	95.40	4.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.47	87	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05	1.32	77	
51	0.00	1.27	0.00	0.00	1.27	5.06	12.66	15.19	21.52	43.04	7.73	1.92	79	
52	0.00	3.85	6.38	21.84	22.99	9.20	10.34	6.90	3.45	16.09	4.07	1.54	70	

LOS ANGELES (FACE TO FACE) SITE NO. 1007

NUMBER OF RESPONDENTS = 50

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	60.00	40.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.40	.49	50	
3	0.00	2.00	8.00	4.00	6.00	2.00	10.00	8.00	0.00	60.00	7.20	2.54	50	
4	0.00	40.00	46.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	1.74	.69	50	
5	0.00	24.00	72.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	Z =	-3.46	48	BINOMIAL
6	0.00	6.00	62.00	0.00	0.00	0.00	0.00	0.00	8.00	2.00	Z =	-5.52	46	BINOMIAL
7	0.00	16.00	58.00	0.00	0.00	0.00	0.00	0.00	22.00	4.00	Z =	-3.45	37	BINOMIAL
8	0.00	12.00	46.00	0.00	0.00	0.00	0.00	0.00	32.00	10.00	Z =	-3.16	29	BINOMIAL
9	0.00	16.00	80.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00	Z =	-4.43	49	BINOMIAL
10	0.00	0.00	18.30	0.00	0.00	0.00	0.00	0.00	0.00	82.00	Z =	-3.00	9	BINOMIAL
						NOISE								
11	0.00	66.00	28.00	4.00	0.00	0.00	0.00	0.00	2.00	0.00	Z =	2.77	49	BINOMIAL
12-A	0.00	0.00	6.06	48.48	39.39	6.06	0.00	0.00	0.00	0.00	3.45	.70	33	
12-B	0.00	0.00	14.29	57.14	21.43	7.14	0.00	0.00	0.00	0.00	3.21	.77	14	
13	0.00	26.00	74.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-3.39	50	BINOMIAL
14	0.00	5.41	29.73	40.54	16.22	8.11	0.00	0.00	0.00	0.00	2.92	1.06	37	
15	0.00	27.03	19.51	27.03	10.81	21.62	0.00	0.00	2.70	0.00	2.69	1.49	35	
16	0.00	56.76	0.00	0.00	32.43	10.81	0.00	0.00	0.00	0.00	2.41	1.64	37	
17	0.00	40.54	35.14	21.62	0.00	0.00	0.00	0.00	2.70	0.00	1.81	.76	36	
18	0.00	27.03	32.43	40.54	0.00	0.00	0.00	0.00	0.00	0.00	2.14	.81	37	
19	51.35	8.11	21.62	16.22	2.70	0.00	0.00	0.00	0.00	0.00	1.11	1.27	37	
						SOURCES								
20	29.73	48.65	8.11	10.81	2.70	0.00	0.00	0.00	0.00	0.00	1.08	1.02	37	
21	10.81	29.73	27.03	10.81	5.41	16.22	0.00	0.00	0.00	0.00	2.19	1.57	37	
22	24.32	43.24	27.03	2.70	2.70	0.00	0.00	0.00	0.00	0.00	1.16	.92	37	
23	2.70	40.54	24.32	5.41	21.62	5.41	0.00	0.00	0.00	0.00	2.19	1.37	37	
24	40.54	45.95	8.11	0.00	5.41	0.00	0.00	0.00	0.00	0.00	.84	.97	37	
25	18.92	43.24	29.73	2.70	2.70	2.70	0.00	0.00	0.00	0.00	1.35	1.07	37	
26	5.41	21.62	18.92	21.62	21.62	10.81	0.00	0.00	0.00	0.00	2.65	1.44	37	
27	2.70	32.43	16.92	16.22	16.22	16.61	0.00	0.00	0.00	2.70	2.44	1.44	35	
28	2.70	37.84	29.32	10.81	16.22	5.41	0.00	0.00	0.00	2.70	2.17	1.32	36	
29	2.70	43.24	16.22	16.22	13.51	5.41	0.00	0.00	0.00	2.70	2.11	1.33	35	
30	2.70	40.54	18.92	13.51	10.81	10.81	0.00	0.00	0.00	2.70	2.22	1.44	36	
31	0.00	18.92	16.22	21.62	16.22	24.32	0.00	0.00	0.00	2.70	3.11	1.45	36	
32	54.05	27.03	10.81	2.70	2.70	0.00	0.00	0.00	0.00	2.70	.69	.97	35	
33	35.14	18.92	18.92	13.51	5.41	5.41	0.00	0.00	0.00	2.70	1.50	1.50	35	
34-A	64.86	0.00	10.81	10.81	2.70	5.41	0.00	2.70	0.00	2.70	1.14	1.63	36	
34-B	0.00	0.00	27.03	2.70	2.70	0.00	0.00	0.00	0.00	67.57	2.25	.60	12	
35	67.57	10.81	5.41	8.11	5.41	2.70	0.00	0.00	0.00	0.00	.81	1.39	37	
						ACTIVITY								
36	54.05	2.70	16.22	5.41	13.51	8.11	0.00	0.00	0.00	0.00	1.46	1.79	37	
37	37.84	5.41	13.51	5.41	15.22	24.32	0.00	0.00	0.00	0.00	2.30	2.09	37	
38	56.76	10.81	16.22	8.11	2.70	5.41	0.00	0.00	0.00	0.00	1.05	1.47	37	
39	54.05	2.70	13.51	10.81	5.41	13.51	0.00	0.00	0.00	0.00	1.51	1.67	37	
40	0.00	70.27	29.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.05	37	BINOMIAL
						INDIVIDUAL								
41	0.00	24.00	76.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-3.68	50	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.84	5.30	50	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.32	10.31	50	
44	0.00	32.00	42.00	24.00	0.00	0.00	0.00	0.00	2.00	0.00	1.92	.75	50	
45	0.00	86.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	Z =	5.29	49	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.62	.67	50	
51	0.00	0.00	0.00	0.00	0.00	6.12	8.16	18.37	24.49	42.86	7.90	1.22	49	
52	0.00	6.00	14.00	18.00	10.00	20.00	4.00	12.00	4.00	12.00	4.00	1.80	42	

LOS ANGELES - SITE NO. 1608

NUMBER OF RESPONDENTS = 82

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.20	37.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.48	82	
3	0.00	2.44	3.66	8.54	8.54	7.32	8.54	1.22	3.66	56.10	7.00	2.57	82	
4	0.00	52.44	43.90	3.66	0.00	0.00	0.00	0.00	0.00	0.00	1.51	.57	82	
5	0.00	14.63	85.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-6.41	82	BINOMIAL
6	0.00	9.76	75.61	0.00	0.00	0.00	0.00	0.00	10.96	3.66	Z =	-6.45	73	BINOMIAL
7	0.00	7.32	54.88	0.00	0.00	0.00	0.00	0.00	17.07	20.73	Z =	-5.46	51	BINOMIAL
8	0.00	6.10	25.61	0.00	0.00	0.00	0.00	0.00	35.37	32.93	Z =	-3.14	28	BINOMIAL
9	0.00	12.20	87.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-6.85	82	BINOMIAL
10	0.00	0.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00	87.80	Z =	-3.16	10	BINOMIAL
						NOISE								
11	0.00	78.05	18.29	3.66	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.51	82	BINOMIAL
12-A	0.00	0.00	1.56	50.00	32.81	15.62	0.00	0.00	0.00	0.00	3.63	.76	64	
12-B	0.00	0.00	26.67	53.33	13.33	6.67	0.00	0.00	0.00	0.00	3.00	.62	15	
13	0.00	75.61	24.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.84	82	BINOMIAL
14	0.00	0.00	20.00	30.00	25.00	15.00	0.00	0.00	5.00	5.00	3.39	1.31	18	
15	0.00	25.00	35.00	5.00	0.00	20.00	0.00	0.00	10.00	5.00	2.47	1.50	17	
16	0.00	65.00	0.00	0.00	25.00	0.00	0.00	0.00	5.00	5.00	1.80	1.36	15	
17	0.00	15.00	35.00	35.00	0.00	0.00	0.00	0.00	10.00	5.00	2.24	.73	17	
18	0.00	25.00	25.00	40.00	0.00	0.00	0.00	0.00	5.00	5.00	2.17	.83	18	
19	40.00	0.00	20.00	0.00	20.00	10.00	0.00	0.00	0.00	10.00	1.80	1.91	15	
						SOURCES								
20	45.00	20.00	0.00	20.00	5.00	0.00	0.00	0.00	0.00	10.00	1.11	1.37	18	
21	35.00	25.00	0.00	10.00	15.00	5.00	0.00	0.00	0.00	10.00	1.56	1.71	18	
22	40.00	25.00	5.00	15.00	5.00	0.00	0.00	0.00	0.00	10.00	1.11	1.29	18	
23	25.00	25.00	10.00	10.00	5.00	15.00	0.00	0.00	0.00	10.00	1.89	1.79	16	
24	60.00	10.00	10.00	5.00	5.00	0.00	0.00	0.00	0.00	10.00	.72	1.15	19	
25	55.00	15.00	5.00	5.00	5.00	0.00	0.00	0.00	0.00	15.00	.71	1.18	17	
26	20.00	10.00	20.00	10.00	25.00	5.00	0.00	0.00	0.00	10.00	2.08	1.93	16	
27	50.00	0.00	5.00	0.00	15.00	5.00	0.00	0.00	0.00	25.00	1.27	1.58	16	
28	35.00	10.00	5.00	5.00	20.00	0.00	0.00	0.00	0.00	25.00	1.53	1.71	15	
29	55.00	0.00	10.00	0.00	5.00	5.00	0.00	0.00	0.00	25.00	.87	1.59	15	
30	40.00	0.00	5.00	10.00	10.00	5.00	0.00	0.00	0.00	30.00	1.50	1.84	14	
31	15.00	5.00	20.00	0.00	25.00	15.00	0.00	0.00	0.00	20.00	2.75	1.79	16	
32	70.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.00	.07	.25	15	
33	45.00	0.00	5.00	10.00	15.00	0.00	0.00	0.00	0.00	25.00	1.33	1.70	15	
34-A	60.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	5.00	25.00	.50	1.24	14	
34-B	0.00	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	85.00	2.67	.94	3	
35	40.00	5.00	10.00	15.00	15.00	5.00	0.00	0.00	0.00	10.00	1.72	1.76	18	
						ACTIVITY								
36	50.00	5.00	20.00	5.00	5.00	10.00	0.00	0.00	0.00	5.00	1.37	1.72	19	
37	30.00	0.00	15.00	5.00	20.00	15.00	0.00	0.00	0.00	15.00	2.35	1.97	17	
38	50.00	0.00	15.00	5.00	15.00	5.00	0.00	0.00	0.00	10.00	1.44	1.77	18	
39	55.00	0.00	10.00	10.00	15.00	0.00	0.00	0.00	0.00	10.00	1.22	1.62	18	
40	0.00	60.00	30.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	Z =	3.16	19	BINOMIAL
						INDIVIDUAL								
41	0.00	78.05	21.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.08	82	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.75	4.59	77	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.12	10.73	78	
44	0.00	24.39	37.80	36.59	0.00	0.00	0.00	0.00	1.22	0.00	2.12	.78	81	
45	0.00	96.34	3.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.39	82	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.78	1.29	82	
51	0.00	3.95	0.00	0.00	0.00	6.58	9.21	9.21	26.32	44.74	7.70	1.83	75	
52	0.00	4.88	6.10	21.95	10.98	8.54	7.32	6.10	2.44	31.71	3.89	1.66	54	

LOS ANGELES - SITE NO. 1609

NUMBER OF RESPONDENTS = 79

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	62.03	37.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.38	.49	79	
3	0.00	0.00	13.16	15.79	15.79	2.63	9.21	5.26	2.63	35.53	5.63	2.74	76	
4	0.00	72.15	22.78	3.80	0.00	0.00	0.00	0.00	0.00	1.27	1.31	.54	79	
5	0.00	11.39	88.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-6.86	79	BINOMIAL
6	0.00	18.99	70.89	0.00	0.00	0.00	0.00	0.00	10.13	0.00	Z =	-4.27	71	BINOMIAL
7	0.00	12.66	60.76	0.00	0.00	0.00	0.00	0.00	25.32	1.27	Z =	-4.99	58	BINOMIAL
8	0.00	7.59	31.65	0.00	0.00	0.00	0.00	0.00	51.90	8.86	Z =	-3.41	31	BINOMIAL
9	0.00	8.86	91.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-7.31	79	BINOMIAL
10	0.00	0.00	7.59	0.00	0.00	0.00	0.00	0.00	0.00	92.41	Z =	-2.45	6	BINOMIAL
						NOISE								
11	0.00	67.34	11.39	1.27	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.79	79	BINOMIAL
12-A	0.00	0.00	1.45	21.74	59.42	15.94	0.00	0.00	1.45	0.00	3.91	.66	69	
12-B	0.00	0.00	22.22	11.11	33.33	33.33	0.00	0.00	0.00	0.00	3.78	1.13	9	
13	0.00	73.42	25.32	0.00	0.00	0.00	0.00	0.00	0.00	1.27	Z =	4.50	79	BINOMIAL
14	0.00	0.00	5.00	35.00	25.00	20.00	0.00	0.00	0.00	15.00	3.71	.89	17	
15	0.00	15.00	15.00	15.00	30.00	5.00	0.00	0.00	5.00	20.00	3.00	1.26	15	
16	0.00	45.00	0.00	15.00	20.00	0.00	0.00	0.00	0.00	20.00	2.19	1.38	16	
17	0.00	35.00	25.00	25.00	0.00	0.00	0.00	0.00	0.00	15.00	1.88	.83	17	
18	0.00	30.00	25.00	25.00	0.00	0.00	0.00	0.00	0.00	20.00	1.94	.83	16	
19	35.00	0.00	0.00	20.00	20.00	5.00	0.00	0.00	0.00	20.00	2.06	1.89	16	
						SOURCES								
20	50.00	10.00	5.00	15.00	5.00	0.00	0.00	0.00	0.00	15.00	1.00	1.37	17	
21	20.00	10.00	0.00	10.00	35.00	15.00	0.00	0.00	0.00	10.00	2.50	1.66	18	
22	35.00	10.00	20.00	0.00	20.00	5.00	0.00	0.00	0.00	10.00	1.72	1.73	18	
23	25.00	10.00	10.00	5.00	20.00	10.00	0.00	0.00	0.00	20.00	2.19	1.80	16	
24	50.00	0.00	0.00	5.00	10.00	10.00	0.00	0.00	0.00	25.00	1.40	2.00	15	
25	65.00	0.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	20.00	.50	1.12	16	
26	35.00	0.00	5.00	0.00	15.00	5.00	0.00	0.00	0.00	40.00	1.58	1.98	12	
27	20.00	10.00	0.00	20.00	5.00	0.00	0.00	0.00	0.00	45.00	1.64	1.46	11	
28	35.00	10.00	0.00	5.00	5.00	0.00	0.00	0.00	0.00	45.00	.82	1.34	11	
29	35.00	10.00	0.00	0.00	5.00	5.00	0.00	0.00	0.00	45.00	1.00	1.71	11	
30	30.00	10.00	5.00	0.00	5.00	5.00	0.00	0.00	0.00	45.00	1.16	1.76	11	
31	10.00	0.00	5.00	15.00	15.00	10.00	0.00	0.00	0.00	45.00	3.00	1.65	11	
32	40.00	10.00	0.00	5.00	0.00	0.00	0.00	0.00	0.00	45.00	.45	.87	11	
33	30.00	15.00	5.00	0.00	0.00	5.00	0.00	0.00	0.00	45.00	.91	1.44	11	
34-A	60.00	5.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	25.00	.73	1.69	15	
34-B	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	2.00	0.00	2	
35	60.00	0.00	5.00	5.00	5.00	5.00	0.00	0.00	0.00	20.00	.88	1.52	16	
						ACTIVITY								
36	50.00	0.00	5.00	10.00	5.00	10.00	0.00	0.00	0.00	20.00	1.36	1.90	16	
37	25.00	0.00	5.00	15.00	10.00	25.00	0.00	0.00	0.00	20.00	2.75	2.05	16	
38	55.00	5.00	0.00	0.00	15.00	5.00	0.00	0.00	0.00	20.00	1.13	1.83	16	
39	40.00	0.00	5.00	5.00	20.00	10.00	0.00	0.00	0.00	20.00	1.94	2.05	16	
40	0.00	55.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	Z =	3.35	16	BINOMIAL
						INDIVIDUAL								
41	0.00	68.35	30.38	0.00	0.00	0.00	0.00	0.00	1.27	0.00	Z =	3.40	75	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.88	4.85	76	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.24	11.35	71	
44	0.00	15.19	40.51	44.30	0.00	0.00	0.00	0.00	0.00	0.00	2.29	.71	79	
45	0.00	92.41	7.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.54	79	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.70	1.14	79	
51	2.67	1.33	0.00	3.00	1.33	8.00	6.67	9.33	20.00	50.67	7.68	2.01	75	
52	0.00	0.00	5.06	2.53	15.19	11.39	10.13	21.52	6.33	27.85	5.27	1.57	52	

NUMBER OF RESPONDENTS = 65

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	57.65	42.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	.49	85	
3	0.00	3.53	23.53	12.94	7.06	7.06	7.06	4.71	2.35	31.76	5.33	2.55	85	
4	0.00	43.53	49.41	4.71	0.00	0.00	0.00	0.00	1.18	1.18	1.69	.56	83	
5	0.00	9.41	85.88	0.00	0.00	0.00	0.00	0.00	0.00	4.71	Z =	-7.22	81	BINOMIAL
6	0.00	4.71	75.29	0.00	0.00	0.00	0.00	0.00	1.18	18.82	Z =	-7.28	66	BINOMIAL
7	0.00	23.53	44.71	0.00	0.00	0.00	0.00	0.00	2.35	29.41	Z =	-2.36	56	BINOMIAL
8	0.00	9.41	23.24	0.00	0.00	0.00	0.00	0.00	10.59	51.76	Z =	-2.83	32	BINOMIAL
9	0.00	24.71	74.12	0.00	0.00	0.00	0.00	0.00	1.18	0.00	Z =	-4.56	84	BINOMIAL
10	0.00	0.00	21.18	0.00	0.00	0.00	0.00	0.00	2.35	76.47	Z =	-4.24	18	BINOMIAL
						NOISE								
11	0.00	64.71	32.94	2.35	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.56	85	BINOMIAL
12-A	0.00	0.00	12.73	60.00	25.45	1.82	0.00	0.00	0.00	0.00	3.16	.65	55	
12-B	0.00	0.00	7.14	53.57	39.29	0.00	0.00	0.00	0.00	0.00	3.32	.60	28	
13	0.00	58.82	41.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.63	85	BINOMIAL
14	0.00	8.57	25.71	40.00	22.86	2.86	0.00	0.00	0.00	0.00	2.86	.96	35	
15	0.00	14.29	17.14	11.43	17.14	37.14	0.00	0.00	0.00	2.86	3.47	1.59	35	
16	0.00	82.86	0.00	2.86	14.29	0.00	0.00	0.00	0.00	0.00	1.49	1.08	35	
17	0.00	57.14	25.71	14.29	0.00	0.00	0.00	0.00	2.86	0.00	1.56	.74	34	
18	0.00	8.57	8.57	80.00	0.00	0.00	0.00	0.00	2.86	0.00	2.74	.61	34	
19	57.14	2.86	11.43	14.29	14.29	0.00	0.00	0.00	0.00	0.00	1.26	1.67	35	
						SOURCES								
20	31.43	17.14	37.14	5.71	8.57	0.00	0.00	0.00	0.00	0.00	1.43	1.23	35	
21	62.86	14.29	8.57	5.71	5.71	2.86	0.00	0.00	0.00	0.00	.86	1.38	35	
22	51.43	28.57	11.43	2.86	2.86	2.86	0.00	0.00	0.00	0.00	.86	1.20	35	
23	57.14	28.57	2.86	5.71	2.86	0.00	0.00	0.00	0.00	2.86	.65	1.00	34	
24	82.86	8.57	0.00	8.57	0.00	0.00	0.00	0.00	0.00	0.00	.34	.06	35	
25	94.29	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	.03	.17	34	
26	5.71	5.71	14.29	28.57	37.14	2.86	0.00	0.00	0.00	5.71	3.00	1.21	33	
27	28.57	8.57	17.14	2.86	28.57	8.57	0.00	0.00	0.00	5.71	2.21	1.02	35	
28	5.71	22.86	14.29	34.29	17.14	0.00	0.00	0.00	0.00	5.71	2.33	1.20	33	
29	48.57	17.14	2.86	14.29	8.57	0.00	0.00	0.00	2.86	5.71	1.09	1.42	32	
30	37.14	17.14	5.71	14.29	14.29	2.86	0.00	0.00	2.86	5.71	1.56	1.64	32	
31	17.14	5.71	14.29	14.29	25.71	17.14	0.00	0.00	0.00	5.71	2.82	1.73	33	
32	45.71	8.57	3.57	8.57	14.29	5.71	0.00	0.00	0.00	8.57	1.50	1.77	30	
33	25.71	11.43	8.57	28.57	17.14	0.00	0.00	0.00	0.00	8.57	2.00	1.52	32	
34-A	68.57	2.86	5.71	5.71	2.86	2.86	0.00	2.86	0.00	8.57	.84	1.72	32	
34-B	0.00	0.00	17.14	0.00	0.00	5.71	0.00	0.00	0.00	77.14	2.75	1.30	8	
35	54.29	2.86	14.29	2.86	25.71	0.00	0.00	0.00	0.00	0.00	1.43	1.71	35	
						ACTIVITY								
36	80.00	2.86	0.00	5.71	5.71	5.71	0.00	0.00	0.00	0.00	.71	1.54	35	
37	31.43	8.57	22.86	11.43	22.86	2.86	0.00	0.00	0.00	0.00	1.94	1.62	35	
38	65.71	5.71	8.57	2.86	11.43	2.86	0.00	0.00	0.00	2.86	.94	1.55	34	
39	45.71	0.00	17.14	17.14	20.00	0.00	0.00	0.00	0.00	0.00	1.66	1.54	35	
40	0.00	88.57	11.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.71	35	BINOMIAL
						INDIVIDUAL								
41	0.00	98.82	1.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	9.00	85	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.58	4.80	84	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.01	10.21	82	
44	0.00	22.35	54.12	22.35	0.00	0.00	0.00	0.00	0.00	1.18	2.00	.67	84	
45	0.00	98.82	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.00	Z =	9.17	84	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.21	.83	84	
51	0.00	0.00	0.00	0.00	6.25	3.75	10.00	6.25	18.75	55.00	7.92	1.53	80	
52	0.00	7.06	16.47	16.47	8.24	9.41	4.71	14.12	8.24	15.29	3.88	1.98	65	

SAN FRANCISCO - SITE NO. 1003

NUMBER OF RESPONDENTS = 80

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						RESPONSE CATEGORIES								
						NEIGHBORHOOD								
2	0.00	58.75	41.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	.49	80	
3	0.00	0.00	15.19	29.11	8.86	5.06	3.80	5.06	0.00	32.91	5.33	2.85	79	
4	0.00	13.75	45.00	41.25	2.50	1.25	0.00	0.00	1.25	0.00	2.37	.80	79	
5	0.00	6.25	86.75	0.00	0.00	0.00	0.00	0.00	0.00	5.00	Z =	-7.87	76	BINOMIAL
6	0.00	6.25	75.00	0.00	0.00	0.00	0.00	0.00	2.50	16.25	Z =	-6.02	65	BINOMIAL
7	0.00	27.50	41.25	0.00	0.00	0.00	0.00	0.00	5.00	26.25	Z =	-1.48	55	BINOMIAL
8	0.00	6.25	37.50	0.00	0.00	0.00	0.00	0.00	10.00	46.25	Z =	-4.23	35	BINOMIAL
9	0.00	28.75	67.50	0.00	0.00	0.00	0.00	0.00	3.75	0.00	Z =	-3.53	77	BINOMIAL
10	0.00	7.50	21.25	0.00	0.00	0.00	0.00	0.00	0.00	71.25	Z =	-2.29	23	BINOMIAL
						NOISE								
11	0.00	38.75	51.25	10.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.18	80	BINOMIAL
12-4	0.00	0.00	6.45	51.61	29.03	12.90	0.00	0.00	0.00	0.00	3.45	.80	31	
12-5	0.00	0.00	7.32	41.46	43.90	7.32	0.00	0.00	0.00	0.00	3.51	.74	41	
13	0.00	47.50	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.43	80	BINOMIAL
14	0.00	4.76	23.81	23.81	35.71	11.90	0.00	0.00	0.00	0.00	3.26	1.09	42	
15	0.00	23.81	11.90	19.05	21.43	21.43	0.00	0.00	2.38	0.00	3.05	1.48	41	
16	0.00	59.52	2.38	2.38	30.95	0.00	0.00	0.00	4.76	0.00	2.05	1.40	40	
17	0.00	30.95	28.19	40.48	0.00	0.00	0.00	0.00	2.38	0.00	2.10	.85	41	
18	0.00	16.67	16.67	66.67	0.00	0.00	0.00	0.00	0.00	0.00	2.50	.76	42	
19	45.24	14.29	14.29	11.90	9.52	4.76	0.00	0.00	0.00	0.00	1.40	1.59	42	
						SOURCES								
20	26.57	11.90	21.43	19.05	4.76	14.29	0.00	0.00	0.00	0.00	2.02	1.71	42	
21	50.00	11.90	16.67	7.14	9.52	4.76	0.00	0.00	0.00	0.00	1.29	1.58	42	
22	59.52	7.14	11.90	9.52	4.76	4.76	0.00	0.00	2.38	0.00	1.05	1.53	41	
23	54.76	16.67	9.52	4.76	9.52	4.76	0.00	0.00	0.00	0.00	1.12	1.65	42	
24	64.29	0.00	11.90	11.90	7.14	2.38	0.00	0.00	0.00	2.38	1.02	1.52	41	
25	88.10	7.14	2.38	2.38	0.00	0.00	0.00	0.00	0.00	0.00	.19	.59	42	
26	11.90	2.38	16.67	21.43	30.95	16.67	0.00	0.00	0.00	0.00	3.07	1.52	42	
27	61.90	2.38	7.14	11.90	9.52	0.00	0.00	0.00	0.00	7.14	.97	1.48	39	
28	19.05	0.00	23.81	23.81	21.43	4.76	0.00	0.00	0.00	7.14	2.46	1.50	39	
29	35.33	2.38	19.05	14.29	16.67	7.14	0.00	0.00	0.00	7.14	2.00	1.74	39	
30	19.05	4.76	11.90	21.43	23.81	11.90	0.00	0.00	0.00	7.14	2.67	1.68	39	
31	23.81	9.52	14.29	11.90	21.43	11.90	0.00	0.00	0.00	7.14	2.36	1.79	39	
32	42.86	7.14	7.14	16.67	14.29	4.76	0.00	0.00	0.00	7.14	1.64	1.75	39	
33	19.05	2.38	11.90	26.19	23.81	7.14	0.00	0.00	0.00	9.52	2.41	1.60	38	
34-4	57.14	4.76	4.76	9.52	0.00	9.52	0.00	0.00	0.00	14.29	1.06	1.72	36	
34-8	0.00	0.00	11.90	4.76	7.14	2.38	0.00	0.00	0.00	73.81	3.00	1.04	11	
35	42.86	0.00	29.19	14.29	14.29	2.38	0.00	0.00	0.00	0.00	1.64	1.59	42	
						ACTIVITY								
36	50.00	4.76	11.90	9.52	11.90	11.90	0.00	0.00	0.00	0.00	1.64	1.89	42	
37	38.10	2.38	11.90	16.67	9.52	16.67	0.00	0.00	0.00	4.76	2.07	1.94	40	
38	50.00	2.38	14.29	9.52	21.43	2.38	0.00	0.00	0.00	0.00	1.57	1.73	42	
39	35.71	7.14	7.14	26.19	11.90	9.52	0.00	0.00	0.00	2.38	2.00	1.78	41	
40	0.00	90.48	9.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.10	42	BINOMIAL
						INDIVIDUAL								
41	0.00	95.00	2.50	0.00	0.00	0.00	0.00	0.00	1.25	1.25	Z =	8.38	78	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.45	4.75	73	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.21	12.34	76	
44	0.00	21.25	45.00	26.25	0.00	0.00	0.00	0.00	6.25	1.25	2.65	.71	74	
45	0.00	92.50	6.25	0.00	0.00	0.00	0.00	0.00	1.25	0.00	Z =	7.76	79	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.18	.41	79	
51	0.00	11.76	0.00	10.29	0.00	10.29	11.76	14.71	16.18	25.00	6.22	2.64	68	
52	0.00	22.50	30.00	20.00	7.50	0.00	0.00	0.00	0.00	20.00	2.16	.94	64	

SAN FRANCISCO - SITE NO. 1005

NUMBER OF RESPONDENTS = 70

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	55.71	44.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.44	.50	70	
3	0.00	21.86	14.29	15.71	12.86	5.71	7.14	4.29	2.86	34.29	5.63	2.84	70	
4	0.00	28.57	40.00	25.71	4.29	0.00	0.00	0.00	1.43	0.00	2.06	.85	69	
5	0.00	14.29	84.29	0.00	0.00	0.00	0.00	0.00	0.00	1.43	Z =	-5.93	69	BINOMIAL
6	0.00	2.86	85.71	0.00	0.00	0.00	0.00	0.00	0.00	11.43	Z =	-7.27	62	BINOMIAL
7	0.00	18.57	61.43	0.00	0.00	0.00	0.00	0.00	0.00	20.00	Z =	-4.01	56	BINOMIAL
8	0.00	1.43	40.00	0.00	0.00	0.00	0.00	0.00	2.86	55.71	Z =	-5.01	27	BINOMIAL
9	0.00	17.14	82.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-5.50	70	BINOMIAL
10	0.00	0.00	17.14	0.00	0.00	0.00	0.00	0.00	0.00	82.86	Z =	-3.46	12	BINOMIAL
						NOISE								
11	0.00	64.29	27.14	7.14	0.00	0.00	0.00	0.00	1.43	0.00	Z =	3.33	69	BINOMIAL
12-A	0.00	0.00	13.33	46.67	26.67	13.33	0.00	0.00	0.00	0.00	3.40	.88	43	
12-B	0.00	0.00	15.79	57.89	26.32	0.00	0.00	0.00	0.00	0.00	3.11	.64	19	
13	0.00	48.57	51.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.24	70	BINOMIAL
14	0.00	5.56	30.56	33.33	19.44	11.11	0.00	0.00	0.00	0.00	3.00	1.08	36	
15	0.00	13.89	11.11	2.78	33.33	33.33	0.00	0.00	0.00	0.00	3.50	1.44	36	
16	0.00	38.89	0.00	0.00	47.22	2.78	0.00	0.00	11.11	0.00	2.72	1.53	32	
17	0.00	27.78	61.11	11.11	0.00	0.00	0.00	0.00	0.00	0.00	1.83	.60	36	
18	0.00	19.44	5.56	75.00	0.00	0.00	0.00	0.00	0.00	0.00	2.86	.80	36	
19	50.00	13.89	8.33	2.78	11.11	13.89	0.00	0.00	0.00	0.00	1.53	1.91	36	
						SOURCES								
20	13.89	30.56	22.22	19.44	8.33	5.56	0.00	0.00	0.00	0.00	1.94	1.37	36	
21	22.22	13.89	19.44	13.89	22.22	8.33	0.00	0.00	0.00	0.00	2.25	1.66	36	
22	36.11	41.67	8.33	5.56	8.33	0.00	0.00	0.00	0.00	0.00	1.03	1.19	36	
23	25.00	44.44	11.11	5.56	8.33	5.56	0.00	0.00	0.00	0.00	1.44	1.42	36	
24	61.11	8.33	5.56	2.78	11.11	11.11	0.00	0.00	0.00	0.00	1.33	1.57	36	
25	88.89	8.33	0.00	2.78	0.00	0.00	0.00	0.00	0.00	0.00	.17	.55	36	
26	8.33	8.33	27.78	25.00	27.78	2.78	0.00	0.00	0.00	0.00	2.64	1.37	36	
27	38.89	13.89	19.44	11.11	8.33	2.78	0.00	0.00	2.78	2.78	1.41	1.69	36	
28	19.44	19.44	33.33	13.89	8.33	2.78	0.00	0.00	0.00	2.78	1.90	1.30	36	
29	55.56	22.22	8.33	8.33	0.00	2.78	0.00	0.00	0.00	2.78	.80	1.19	36	
30	38.89	11.11	13.89	13.89	13.89	5.56	0.00	0.00	0.00	2.78	1.56	1.69	36	
31	13.89	11.11	27.78	13.89	25.00	5.56	0.00	0.00	0.00	2.78	2.43	1.49	36	
32	52.33	19.44	2.78	5.56	2.78	8.33	0.00	0.00	0.00	2.78	.97	1.59	36	
33	50.00	11.11	5.56	30.56	0.00	0.00	0.00	0.00	0.00	2.78	1.17	1.34	36	
34-A	52.78	13.89	8.33	11.11	0.00	2.78	0.00	5.56	0.00	5.56	1.24	1.91	34	
34-B	0.00	0.00	27.78	2.78	5.56	0.00	0.00	0.00	0.00	63.89	2.38	.74	13	
35	61.11	2.78	13.89	11.11	8.33	2.78	0.00	0.00	0.00	0.00	1.11	1.54	36	
						ACTIVITY								
36	47.22	11.11	19.44	11.11	8.33	2.78	0.00	0.00	0.00	0.00	1.31	1.49	36	
37	22.22	13.89	16.67	11.11	25.00	11.11	0.00	0.00	0.00	0.00	2.36	1.73	36	
38	75.00	5.56	5.56	0.00	13.89	0.00	0.00	0.00	0.00	0.00	.72	1.41	36	
39	41.67	2.78	19.44	11.11	16.67	5.56	0.00	0.00	0.00	2.78	1.74	1.73	33	
40	0.00	69.44	30.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.89	36	BINOMIAL
						INDIVIDUAL								
41	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.37	70	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.31	4.62	70	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.96	11.18	69	
44	0.00	34.29	41.43	22.86	0.00	0.00	0.00	0.00	1.43	0.00	1.65	.75	69	
45	0.00	91.43	4.29	0.00	0.00	0.00	0.00	0.00	4.29	0.00	Z =	7.45	67	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.46	1.00	70	
51	0.00	6.25	0.00	4.69	0.00	6.25	9.38	17.19	26.56	29.69	7.08	2.19	64	
52	0.00	22.86	27.14	18.57	17.14	8.57	1.43	0.00	0.00	4.29	2.64	1.33	67	

SEATTLE - SITE NO, 1501

NUMBER OF RESPONDENTS = 74

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	66.22	33.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34	.47	74	
3	0.00	0.00	5.41	8.11	6.76	5.41	10.81	5.41	8.11	50.00	7.07	2.38	74	
4	0.00	59.46	35.14	5.41	0.00	0.00	0.00	0.00	0.00	0.00	1.46	.60	74	
5	0.00	28.36	65.22	0.00	0.00	0.00	0.00	0.00	5.41	0.00	Z =	-3.35	70	BINOMIAL
6	0.00	6.76	74.32	0.00	0.00	0.00	0.00	0.00	17.57	1.35	Z =	-6.45	63	BINOMIAL
7	0.00	9.46	62.16	0.00	0.00	0.00	0.00	0.00	23.97	5.41	Z =	-5.35	53	BINOMIAL
8	0.00	6.76	17.57	0.00	0.00	0.00	0.00	0.00	64.86	10.81	Z =	-1.69	10	BINOMIAL
9	0.00	8.11	90.54	0.00	0.00	0.00	0.00	0.00	1.35	0.00	Z =	-7.14	73	BINOMIAL
10	0.00	0.00	8.11	0.00	0.00	0.00	0.00	0.00	0.00	91.89	Z =	-2.45	6	BINOMIAL
						NOISE								
11	0.00	82.43	13.51	4.05	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.05	74	BINOMIAL
12-A	0.00	0.00	3.28	44.26	40.98	11.48	0.00	0.00	0.00	0.00	3.61	.73	61	
12-B	0.00	0.00	0.00	90.00	0.00	10.00	0.00	0.00	0.00	0.00	3.20	.60	10	
13	0.00	59.46	40.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.63	74	BINOMIAL
14	0.00	3.33	53.33	33.33	10.00	0.00	0.00	0.00	0.00	0.00	2.50	.72	30	
15	0.00	50.00	6.67	20.00	16.67	6.67	0.00	0.00	0.00	0.00	P.23	1.33	30	
16	0.00	30.00	3.33	0.00	66.67	0.00	0.00	0.00	0.00	0.00	3.33	1.38	30	
17	0.00	60.00	30.00	6.67	0.00	0.00	0.00	0.00	3.33	0.00	1.46	.82	29	
18	0.00	40.00	40.00	20.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	.75	30	
19	50.00	26.67	6.67	3.33	10.00	3.33	0.00	0.00	0.00	0.00	1.07	1.46	30	
						SOURCES								
20	70.00	26.67	0.00	0.00	0.00	3.33	0.00	0.00	0.00	0.00	.43	.96	30	
21	36.67	20.00	3.33	13.33	16.67	10.00	0.00	0.00	0.00	0.00	1.83	1.63	30	
22	26.67	53.33	6.67	13.33	0.00	0.00	0.00	0.00	0.00	0.00	1.07	.93	30	
23	30.00	56.67	3.33	6.67	0.00	3.33	0.00	0.00	0.00	0.00	1.00	1.06	30	
24	73.33	13.33	6.67	3.33	3.33	0.00	0.00	0.00	0.00	0.00	.50	.99	30	
25	25.87	55.33	6.67	10.00	0.00	3.33	0.00	0.00	0.00	0.00	1.13	1.12	30	
26	23.33	10.00	16.67	20.00	10.00	6.67	0.00	0.00	0.00	13.33	2.04	1.85	25	
27	33.33	20.00	0.00	6.67	10.00	6.67	0.00	0.00	0.00	23.33	1.48	1.77	23	
28	20.00	20.00	10.00	6.67	13.33	6.67	0.00	0.00	0.00	23.33	1.91	1.69	23	
29	50.00	20.00	0.00	0.00	0.00	6.67	0.00	0.00	0.00	23.33	.70	1.40	23	
30	43.33	16.67	10.00	0.00	0.00	6.67	0.00	0.00	0.00	23.33	.91	1.44	23	
31	0.00	10.00	16.67	23.33	13.33	13.33	0.00	0.00	0.00	23.33	3.04	1.27	23	
32	43.33	26.67	0.00	0.00	0.00	3.33	0.00	0.00	0.00	26.67	.59	1.07	22	
33	53.33	16.67	0.00	0.00	0.00	3.33	0.00	0.00	0.00	26.67	.45	1.05	22	
34-A	53.33	6.67	0.00	3.33	0.00	3.33	0.00	6.67	0.00	26.67	1.09	2.21	22	
34-B	0.00	0.00	13.33	3.33	3.33	0.00	0.00	0.00	0.00	80.00	2.50	.76	6	
35	90.00	3.33	0.00	3.33	3.33	0.00	0.00	0.00	0.00	0.00	.27	.89	30	
						ACTIVITY								
36	70.00	10.00	3.33	6.67	6.67	3.33	0.00	0.00	0.00	0.00	.80	1.45	30	
37	63.33	3.33	3.33	6.67	16.67	6.67	0.00	0.00	0.00	0.00	1.20	1.85	30	
38	83.33	6.67	3.33	0.00	5.33	3.33	0.00	0.00	0.00	0.00	.40	1.17	30	
39	70.00	6.67	3.33	10.00	6.67	3.33	0.00	0.00	0.00	0.00	.67	1.50	30	
40	0.00	93.33	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.67	30	BINOMIAL
						INDIVIDUAL								
41	0.00	94.59	4.05	0.00	0.00	0.00	0.00	0.00	0.00	1.35	Z =	7.84	73	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.70	5.24	74	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.77	10.88	73	
44	0.00	31.08	40.54	25.66	0.00	0.00	0.00	0.00	1.35	1.35	1.94	.76	72	
45	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.60	74	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	1.39	73	
51	0.00	5.08	0.00	5.08	1.69	8.47	13.56	23.73	10.17	32.20	6.88	2.16	59	
52	0.00	1.35	6.76	28.38	16.22	4.05	4.05	2.70	6.76	29.73	3.60	1.27	47	

SEATTLE - SITE NO. 1502

NUMBER OF RESPONDENTS = 75

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	66.00	32.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.32	.47	75	
3	0.00	0.00	2.67	30.67	18.67	10.67	9.33	6.67	4.00	17.33	5.16	2.26	75	
4	0.00	36.00	42.67	17.33	2.67	1.33	0.00	0.00	0.00	0.00	1.91	.87	75	
5	0.00	6.00	86.67	0.00	0.00	0.00	0.00	0.00	5.33	0.00	Z =	-7.00	71	BINOMIAL
6	0.00	10.67	72.00	0.00	0.00	0.00	0.00	0.00	16.00	1.33	Z =	-5.64	69	BINOMIAL
7	0.00	13.33	60.00	0.00	0.00	0.00	0.00	0.00	26.67	0.00	Z =	-4.72	55	BINOMIAL
8	0.00	6.67	32.00	0.00	0.00	0.00	0.00	0.00	61.33	0.00	Z =	-3.53	29	BINOMIAL
9	0.00	14.67	81.33	0.00	0.00	0.00	0.00	0.00	4.00	0.00	Z =	-5.59	72	BINOMIAL
10	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	Z =	-3.46	12	BINOMIAL
						NOISE								
11	0.00	73.33	20.00	6.67	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.78	75	BINOMIAL
12-A	0.00	0.00	16.36	61.82	14.55	7.27	0.00	0.00	0.00	0.00	3.13	.76	55	
12-B	0.00	0.00	6.67	60.00	33.33	0.00	0.00	0.00	0.00	0.00	3.27	.57	15	
13	0.00	64.00	36.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.42	75	BINOMIAL
14	0.00	0.00	44.44	37.04	18.52	0.00	0.00	0.00	0.00	0.00	2.74	.75	27	
15	0.00	22.22	7.41	22.22	37.04	11.11	0.00	0.00	0.00	0.00	3.07	1.33	27	
16	0.00	29.63	0.00	3.70	66.67	0.00	0.00	0.00	0.00	0.00	3.07	1.36	27	
17	0.00	29.63	37.04	33.33	0.00	0.00	0.00	0.00	0.00	0.00	2.04	.79	27	
18	0.00	22.22	22.22	55.56	0.00	0.00	0.00	0.00	0.00	0.00	2.33	.62	27	
19	29.63	18.52	29.63	11.11	11.11	0.00	0.00	0.00	0.00	0.00	1.56	1.31	27	
						SOURCES								
20	40.74	18.52	14.81	22.22	3.70	0.00	0.00	0.00	0.00	0.00	1.30	1.30	27	
21	7.41	18.52	14.81	25.93	29.63	3.70	0.00	0.00	0.00	0.00	2.63	1.36	27	
22	51.85	25.93	14.81	3.70	3.70	0.00	0.00	0.00	0.00	0.00	.81	1.06	27	
23	40.74	33.33	11.11	11.11	3.70	0.00	0.00	0.00	0.00	0.00	1.04	1.14	27	
24	85.19	0.00	3.70	7.41	0.00	0.00	0.00	0.00	0.00	3.70	.31	.67	26	
25	25.93	44.44	14.81	7.41	7.41	0.00	0.00	0.00	0.00	0.00	1.26	1.14	27	
26	25.93	3.70	18.52	25.93	14.81	3.70	0.00	0.00	0.00	7.41	2.12	1.56	25	
27	44.44	7.41	7.41	0.00	18.52	0.00	0.00	0.00	0.00	22.22	1.24	1.66	21	
28	11.11	14.81	14.81	14.81	18.52	3.70	0.00	0.00	0.00	22.22	2.05	1.49	21	
29	66.67	7.41	3.70	0.00	0.00	0.00	0.00	0.00	0.00	22.22	.19	.50	21	
30	37.04	7.41	18.52	11.11	0.00	3.70	0.00	0.00	0.00	22.22	1.24	1.41	21	
31	14.81	7.41	14.81	3.70	25.93	7.41	0.00	0.00	0.00	25.93	2.55	1.72	20	
32	62.96	3.70	3.70	7.41	0.00	0.00	0.00	0.00	0.00	22.22	.43	.95	21	
33	55.56	3.70	3.70	7.41	7.41	0.00	0.00	0.00	0.00	22.22	.81	1.40	21	
34-A	85.19	0.00	3.70	7.41	0.00	0.00	0.00	0.00	0.00	3.70	.31	.87	26	
34-B	0.00	0.00	7.41	0.00	3.70	3.70	0.00	0.00	0.00	85.19	3.25	1.30	4	
35	62.96	3.70	3.70	18.52	7.41	3.70	0.00	0.00	0.00	0.00	1.15	1.53	27	
						ACTIVITY								
36	51.85	0.00	22.22	18.52	7.41	0.00	0.00	0.00	0.00	0.00	1.30	1.44	27	
37	37.04	3.70	7.41	29.63	14.81	7.41	0.00	0.00	0.00	0.00	2.04	1.75	27	
38	70.37	0.00	11.11	3.70	14.81	0.00	0.00	0.00	0.00	0.00	.93	1.51	27	
39	51.85	7.41	7.41	18.52	7.41	7.41	0.00	0.00	0.00	0.00	1.44	1.73	27	
40	0.00	74.07	25.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	4.81	27	BINOMIAL
						INDIVIDUAL								
41	0.00	98.67	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.43	75	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.81	5.16	74	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.10	11.48	71	
44	0.00	41.33	30.67	26.67	0.00	0.00	0.00	0.00	1.33	0.00	1.85	.82	74	
45	0.00	97.33	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.20	75	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.97	1.37	74	
51	0.00	1.56	0.00	4.69	3.13	6.25	9.38	31.25	10.94	32.81	7.17	1.82	64	
52	0.00	0.00	5.33	45.33	16.00	6.67	1.33	1.33	4.00	20.00	3.44	.94	57	

SEATTLE - SITE NO. 1503

NUMBER OF RESPONDENTS = 78

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	58.97	41.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	.49	78	
3	0.00	0.00	11.54	0.97	17.95	21.79	12.82	14.10	10.26	2.56	5.12	1.89	78	
4	0.00	48.72	39.74	7.69	3.85	0.00	0.00	0.00	0.00	0.00	1.67	.78	78	
5	0.00	5.13	92.31	0.00	0.00	0.00	0.00	0.00	1.28	1.28	Z =	-7.59	78	BINOMIAL
6	0.00	7.69	76.92	0.00	0.00	0.00	0.00	0.00	7.69	7.69	Z =	-6.65	65	BINOMIAL
7	0.00	5.13	70.51	0.00	0.00	0.00	0.00	0.00	15.38	8.97	Z =	-6.64	59	BINOMIAL
8	0.00	8.97	37.18	0.00	0.00	0.00	0.00	0.00	29.49	24.36	Z =	-3.67	35	BINOMIAL
9	0.00	19.23	80.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-5.43	78	BINOMIAL
10	0.00	0.00	17.95	0.00	0.00	0.00	0.00	0.00	0.00	82.05	Z =	-3.74	14	BINOMIAL
						NOISE								
11	0.00	84.62	12.82	2.56	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.42	78	BINOMIAL
12-A	0.00	0.00	19.61	42.42	36.36	6.06	0.00	0.00	1.52	3.03	3.40	.77	63	
12-B	0.00	0.00	30.00	40.00	10.00	20.00	0.00	0.00	0.00	0.00	3.20	1.06	10	
13	0.00	47.44	52.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-.45	78	BINOMIAL
14	0.00	4.88	53.66	21.95	14.63	4.88	0.00	0.00	0.00	0.00	2.61	.96	41	
15	0.00	43.90	7.32	17.07	9.76	21.95	0.00	0.00	0.00	0.00	2.59	1.62	41	
16	0.00	24.39	2.44	7.32	58.54	0.00	0.00	0.00	2.44	4.88	3.88	1.31	36	
17	0.00	36.59	48.78	12.20	0.00	0.00	0.00	0.00	2.44	0.00	1.75	.66	40	
18	0.00	24.39	31.71	43.90	0.00	0.00	0.00	0.00	0.00	0.00	2.20	.80	41	
19	60.98	17.07	9.76	4.88	7.32	0.00	0.00	0.00	0.00	0.00	.80	1.23	41	
						SOURCES								
20	51.22	24.39	17.07	7.32	0.00	0.00	0.00	0.00	0.00	0.00	.80	.97	41	
21	7.32	14.63	29.27	17.07	14.63	17.07	0.00	0.00	0.00	0.00	2.68	1.51	41	
22	43.90	39.02	12.20	2.44	2.44	0.00	0.00	0.00	0.00	0.00	.00	.00	41	
23	43.90	31.71	12.20	2.44	4.88	4.88	0.00	0.00	0.00	0.00	1.07	1.37	41	
24	68.29	14.63	9.76	0.00	0.00	7.32	0.00	0.00	0.00	0.00	.71	1.37	41	
25	36.59	34.15	14.63	9.76	0.00	4.88	0.00	0.00	0.00	0.00	1.17	1.29	41	
26	26.83	14.63	19.51	12.20	4.88	7.32	0.00	0.00	0.00	14.63	1.71	1.58	39	
27	39.02	21.95	2.44	0.00	2.44	2.44	0.00	0.00	0.00	31.71	.71	1.19	28	
28	24.39	17.07	12.20	9.76	4.88	2.44	0.00	0.00	0.00	29.27	1.45	1.43	29	
29	43.90	21.95	4.88	0.00	0.00	0.00	0.00	0.00	0.00	29.27	.45	.62	29	
30	43.90	17.07	4.88	2.44	2.44	2.44	0.00	0.00	0.00	26.83	.77	1.26	30	
31	4.88	9.76	12.20	19.51	9.76	14.63	0.00	0.00	0.00	29.27	2.90	1.52	29	
32	41.46	12.20	7.32	9.76	0.00	2.44	0.00	0.00	0.00	26.83	.93	1.31	30	
33	43.90	14.63	7.32	7.32	0.00	0.00	0.00	0.00	0.00	26.83	.70	1.30	30	
34-A	56.10	2.44	0.00	2.44	4.88	2.44	0.00	0.00	0.00	31.71	.61	1.42	23	
34-B	0.00	0.00	9.76	0.00	2.44	0.00	0.00	0.00	0.00	87.80	2.40	.60	5	
35	87.80	4.88	2.44	2.44	0.00	2.44	0.00	0.00	0.00	0.00	.29	.94	41	
						ACTIVITY								
36	70.73	2.44	9.76	4.88	4.88	4.88	0.00	0.00	0.00	2.44	.82	1.50	40	
37	41.46	7.32	12.20	7.32	14.63	14.63	0.00	0.00	0.00	2.44	1.90	1.95	40	
38	75.61	4.88	12.20	0.00	4.88	0.00	0.00	0.00	0.00	0.00	.50	1.65	40	
39	63.41	0.00	7.32	9.76	7.32	12.20	0.00	0.00	0.00	0.00	1.34	1.09	41	
40	0.00	80.49	19.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.10	41	BINOMIAL
						INDIVIDUAL								
41	0.00	97.44	2.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.38	78	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.94	5.57	78	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.92	9.20	77	
44	0.00	34.62	30.77	33.33	0.00	0.00	0.00	0.00	1.28	0.00	1.99	.83	77	
45	0.00	91.03	8.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.25	78	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.04	1.40	78	
51	1.43	1.43	0.00	0.00	2.86	5.71	4.29	12.86	25.71	45.71	7.74	1.81	70	
52	0.00	0.00	6.41	32.05	19.23	16.67	1.28	2.56	5.13	16.67	3.77	1.12	61	

SEATTLE - SITE NO. 1605

NUMBER OF RESPONDENTS = 75

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	70.67	29.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	.46	75	
3	0.00	0.00	2.70	5.41	9.46	4.05	0.00	5.41	2.70	70.27	7.72	2.21	74	
4	0.00	34.67	53.33	9.33	1.33	0.00	0.00	0.00	1.33	0.00	1.77	.67	74	
5	0.00	17.33	80.00	0.00	0.00	0.00	0.00	0.00	2.67	0.00	Z =	-5.50	73	BINOMIAL
6	0.00	13.33	62.67	0.00	0.00	0.00	0.00	0.00	24.00	0.00	Z =	-4.98	57	BINOMIAL
7	0.00	1.33	56.00	0.00	0.00	0.00	0.00	0.00	38.67	4.00	Z =	-6.25	43	BINOMIAL
8	0.00	2.67	13.33	0.00	0.00	0.00	0.00	0.00	74.67	9.33	Z =	-2.31	12	BINOMIAL
9	0.00	16.00	82.67	0.00	0.00	0.00	0.00	0.00	1.33	0.00	Z =	-5.81	74	BINOMIAL
10	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	84.00	Z =	-3.46	12	BINOMIAL
						NOISE								
11	0.00	89.33	8.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	Z =	7.14	75	BINOMIAL
12-A	0.00	0.00	1.49	49.25	40.30	8.96	0.00	0.00	0.00	0.00	3.57	.67	67	
12-B	0.00	0.00	16.67	50.00	33.33	0.00	0.00	0.00	0.00	0.00	3.17	.69	6	
13	0.00	65.33	34.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.65	75	BINOMIAL
14	0.00	7.59	32.46	34.62	11.54	7.69	0.00	0.00	0.00	0.00	2.73	1.02	26	
15	0.00	23.08	11.54	11.54	30.77	23.08	0.00	0.00	0.00	0.00	3.19	1.49	26	
16	0.00	53.85	0.00	3.85	42.31	0.00	0.00	0.00	0.00	0.00	2.35	1.47	26	
17	0.00	26.92	57.69	15.38	0.00	0.00	0.00	0.00	0.00	0.00	1.88	.64	26	
18	0.00	23.08	38.46	38.46	0.00	0.00	0.00	0.00	0.00	0.00	2.15	.77	26	
19	69.23	26.92	3.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.35	.55	26	
						SOURCES								
20	30.77	38.46	11.54	7.69	3.85	7.69	0.00	0.00	0.00	0.00	1.35	1.47	26	
21	15.38	19.23	11.54	15.38	19.23	19.23	0.00	0.00	0.00	0.00	2.62	1.76	26	
22	30.77	42.31	15.38	3.85	3.85	3.85	0.00	0.00	0.00	0.00	1.19	1.24	26	
23	19.23	46.15	15.38	11.54	7.69	0.00	0.00	0.00	0.00	0.00	1.42	1.15	26	
24	61.54	19.23	7.69	3.85	3.85	3.85	0.00	0.00	0.00	0.00	.81	1.33	26	
25	15.38	65.38	0.00	11.54	3.85	3.85	0.00	0.00	0.00	0.00	1.35	1.21	26	
26	34.62	11.54	11.54	19.23	15.38	7.69	0.00	0.00	0.00	0.00	1.92	1.73	26	
27	23.08	23.08	3.85	0.00	7.69	0.00	0.00	0.00	0.00	42.31	1.67	1.29	15	
28	11.54	34.62	3.85	11.54	0.00	0.00	0.00	0.00	0.00	38.46	1.25	.97	16	
29	23.08	38.77	3.85	3.85	0.00	0.00	0.00	0.00	0.00	38.46	.81	.81	15	
30	15.38	23.08	7.69	7.69	3.85	0.00	0.00	0.00	0.00	38.46	1.25	1.21	15	
31	7.69	11.54	7.69	15.38	11.54	7.69	0.00	0.00	0.00	38.46	2.56	1.55	16	
32	30.77	15.38	3.85	3.85	7.69	0.00	0.00	0.00	0.00	38.46	1.04	1.39	16	
33	30.77	19.23	7.69	7.69	0.00	0.00	0.00	0.00	0.00	34.62	.85	1.02	17	
34-A	65.38	3.85	0.00	0.00	0.00	0.00	0.00	23.08	0.00	7.69	1.79	3.01	26	
34-B	0.00	0.00	23.08	0.00	3.85	0.00	0.00	0.00	0.00	73.08	2.29	.70	7	
35	80.77	0.00	7.69	0.00	3.85	7.69	0.00	0.00	0.00	0.00	.69	1.94	26	
						ACTIVITY								
36	65.38	7.69	7.69	3.85	7.69	7.69	0.00	0.00	0.00	0.00	1.04	1.68	26	
37	34.62	0.00	11.54	15.38	19.23	19.23	0.00	0.00	0.00	0.00	2.42	1.96	26	
38	76.92	7.69	7.69	3.85	0.00	3.85	0.00	0.00	0.00	0.00	.54	1.18	26	
39	57.69	7.69	3.85	7.69	19.23	3.85	0.00	0.00	0.00	0.00	1.35	1.77	26	
40	0.00	84.62	15.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.92	26	BINOMIAL
						INDIVIDUAL								
41	0.00	94.67	4.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	Z =	7.90	74	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.99	5.19	72	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.24	10.24	72	
44	0.00	30.67	53.33	16.00	0.00	0.00	0.00	0.00	0.00	0.00	1.85	.67	75	
45	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.66	75	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.95	1.33	74	
51	0.00	6.90	0.00	6.90	1.72	1.72	5.17	18.97	20.69	37.93	7.14	2.36	58	
52	0.00	1.33	6.67	16.00	14.67	4.00	1.33	0.00	4.00	52.00	3.39	1.94	33	

WASHINGTON - SITE NO. 0104

NUMBER OF RESPONDENTS = 72

QUESTION	0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	70.83	29.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.29	.45	72	
3	0.00	4.23	11.27	2.82	4.23	2.82	7.04	2.82	2.82	61.97	7.08	2.80	71	
4	0.00	5.56	40.28	44.44	5.56	2.78	0.00	0.00	1.39	0.00	2.59	.90	71	
5	0.00	19.44	66.67	0.00	0.00	0.00	0.00	0.00	5.56	8.33	Z =	=4.32	68	BINOMIAL
6	0.00	12.50	58.33	0.00	0.00	0.00	0.00	0.00	11.11	18.06	Z =	=4.42	91	BINOMIAL
7	0.00	8.33	55.56	0.00	0.00	0.00	0.00	0.00	15.28	20.83	Z =	=5.01	66	BINOMIAL
8	0.00	4.17	29.17	0.00	0.00	0.00	0.00	0.00	23.61	43.05	Z =	=3.57	24	BINOMIAL
9	0.00	11.11	86.11	0.00	0.00	0.00	0.00	0.00	1.39	1.39	Z =	=6.45	70	BINOMIAL
10	0.00	1.39	11.11	0.00	0.00	0.00	0.00	0.00	0.00	87.50	Z =	=2.33	9	BINOMIAL
						NOISE								
11	0.00	45.83	37.50	16.67	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.77	72	BINOMIAL
12-A	0.00	0.00	0.00	72.73	24.24	3.03	0.00	0.00	0.00	0.00	3.30	.52	33	
12-B	0.00	0.00	22.22	44.44	22.22	11.11	0.00	0.00	0.00	0.00	3.22	.92	27	
13	0.00	54.17	45.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.71	72	BINOMIAL
14	0.00	12.12	18.18	36.36	27.27	6.06	0.00	0.00	0.00	0.00	2.97	1.09	33	
15	0.00	18.18	3.03	12.12	39.39	27.27	0.00	0.00	0.00	0.00	3.55	1.39	33	
16	0.00	18.18	0.00	3.03	75.76	3.03	0.00	0.00	0.00	0.00	3.45	1.10	33	
17	0.00	36.36	51.52	12.12	0.00	0.00	0.00	0.00	0.00	0.00	1.76	.65	33	
18	0.00	24.24	12.12	63.64	0.00	0.00	0.00	0.00	0.00	0.00	2.29	.85	33	
19	60.61	12.12	9.09	0.00	12.12	3.03	0.00	0.00	0.00	3.03	.97	1.53	32	
						SOURCES								
20	6.06	27.27	18.18	12.12	21.21	15.15	0.00	0.00	0.00	0.00	2.61	1.55	33	
21	15.15	15.15	3.03	6.06	39.39	21.21	0.00	0.00	0.00	0.00	3.03	1.20	33	
22	54.55	36.36	3.03	0.00	3.03	0.00	0.00	0.00	0.00	3.03	.66	.03	32	
23	18.18	42.42	24.24	3.03	9.09	0.00	0.00	0.00	0.00	3.03	1.41	1.11	32	
24	60.61	21.21	6.06	0.00	15.15	3.03	0.00	0.00	0.00	0.00	.97	1.57	33	
25	39.39	42.42	3.03	3.03	6.06	0.00	0.00	0.00	0.00	6.06	.87	1.07	33	
26	18.18	27.27	15.15	15.15	18.18	0.00	0.00	0.00	0.00	6.06	1.87	1.61	33	
27	45.45	12.12	9.09	6.06	3.03	9.09	0.00	0.00	0.00	24.24	1.16	1.76	33	
28	15.15	27.27	15.15	6.06	15.15	0.00	0.00	0.00	0.00	21.21	1.73	1.57	33	
29	42.42	12.12	15.15	0.00	9.09	0.00	0.00	0.00	0.00	21.21	1.00	1.53	33	
30	48.48	15.15	9.09	6.06	6.06	3.03	0.00	0.00	0.00	18.18	.89	1.40	33	
31	39.39	15.15	15.15	3.03	12.12	6.06	0.00	0.00	0.00	18.18	1.65	1.68	33	
32	54.55	15.15	3.03	6.06	3.03	3.03	0.00	0.00	0.00	15.15	.74	1.35	33	
33	33.33	15.15	6.06	15.15	3.03	6.06	0.00	0.00	0.00	21.21	1.46	1.62	33	
34-A	60.61	0.00	0.00	0.00	9.09	9.09	0.00	0.00	0.00	21.21	1.04	1.91	33	
34-B	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	0.00	0	
35	48.48	3.03	12.12	9.09	9.09	15.15	0.00	0.00	0.00	3.03	1.72	1.96	33	
						ACTIVITY								
36	69.70	3.03	3.03	0.00	6.06	15.15	0.00	0.00	0.00	3.03	1.13	1.95	33	
37	45.45	3.03	0.00	0.00	24.24	24.24	0.00	0.00	0.00	3.03	2.23	2.25	33	
38	63.64	9.09	6.06	3.03	6.06	9.09	0.00	0.00	0.00	3.03	1.03	1.70	33	
39	51.52	3.03	6.06	12.12	12.12	12.12	0.00	0.00	0.00	3.03	1.66	1.65	33	
40	0.00	69.70	30.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	3.04	33	BINOMIAL
						INDIVIDUAL								
41	0.00	55.56	44.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.84	72	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.74	5.60	72	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.65	11.47	71	
44	0.00	31.94	47.22	19.44	0.00	0.00	0.00	0.00	0.00	1.39	1.07	.71	71	
45	0.00	93.06	5.56	0.00	0.00	0.00	0.00	0.00	1.39	0.00	Z =	7.46	71	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.78	1.37	72	
51	1.41	25.35	0.00	14.08	1.41	0.00	12.68	21.13	12.68	11.27	5.66	2.98	71	
52	0.00	27.78	26.39	16.67	8.33	6.94	0.00	0.00	5.56	8.33	2.31	1.24	62	

WASHINGTON - SITE NO. 0105

NUMBER OF RESPONDENTS = 72

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
NEIGHBORHOOD														
2	0.00	58.33	41.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	.49	72	
3	0.00	1.43	8.57	5.71	8.57	4.29	2.86	2.86	2.86	62.86	7.17	2.66	70	
4	0.00	1.39	26.39	43.06	19.44	9.72	0.00	0.00	0.00	0.00	3.10	.95	72	
5	0.00	5.56	75.39	0.00	0.00	0.00	0.00	0.00	8.33	9.72	Z =	-5.64	59	BINOMIAL
6	0.00	4.17	61.11	0.00	0.00	0.00	0.00	0.00	4.17	30.56	Z =	-5.05	47	BINOMIAL
7	0.00	16.67	61.11	0.00	0.00	0.00	0.00	0.00	9.72	12.50	Z =	-4.25	55	BINOMIAL
8	0.00	1.39	51.39	0.00	0.00	0.00	0.00	0.00	13.89	33.33	Z =	-5.84	59	BINOMIAL
9	0.00	29.17	66.67	0.00	0.00	0.00	0.00	0.00	4.17	0.00	Z =	-3.25	69	BINOMIAL
10	0.00	2.78	22.22	0.00	0.00	0.00	0.00	0.00	1.39	73.61	Z =	-3.30	18	BINOMIAL
NOISE														
11	0.00	37.50	56.94	5.56	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-1.70	72	BINOMIAL
12-A	3.70	0.00	11.11	59.26	22.22	3.70	0.00	0.00	0.00	0.00	3.07	.90	27	
12-B	0.00	0.00	14.63	26.83	46.34	12.20	0.00	0.00	0.00	0.00	3.56	.86	41	
13	0.00	51.39	47.22	0.00	0.00	0.00	0.00	0.00	0.00	1.39	Z =	.35	71	BINOMIAL
14	0.00	0.00	25.47	26.47	20.47	20.59	0.00	0.00	0.00	0.00	3.41	1.39	34	
15	0.00	23.53	0.00	5.88	23.53	44.12	0.00	0.00	2.94	0.00	3.67	1.51	35	
16	0.00	14.71	0.00	0.62	67.65	0.00	0.00	0.00	8.82	0.00	3.62	1.10	31	
17	0.00	36.24	50.00	11.76	0.00	0.00	0.00	0.00	0.00	0.00	1.74	.66	34	
18	0.00	20.59	23.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.38	.86	34	
19	47.06	26.47	5.88	8.82	5.82	2.94	0.00	0.00	0.00	0.00	1.15	1.46	34	
SOURCES														
20	8.82	23.53	29.59	11.76	26.47	0.82	0.00	0.00	0.00	0.00	2.50	1.52	34	
21	35.29	11.76	11.76	5.88	26.47	5.89	0.00	0.00	0.00	2.94	1.94	1.81	33	
22	32.35	47.06	14.71	0.00	2.94	2.94	0.00	0.00	0.00	0.00	1.03	1.10	34	
23	8.82	44.12	23.59	5.88	0.82	5.88	0.00	0.00	2.94	2.94	1.78	1.34	32	
24	35.29	32.35	11.76	2.94	2.94	14.71	0.00	0.00	0.00	0.00	1.50	1.72	34	
25	82.35	11.76	0.00	0.00	5.86	0.00	0.00	0.00	0.00	0.00	.35	.97	34	
26	11.76	32.35	17.65	23.59	11.76	2.94	0.00	0.00	0.00	2.94	1.97	1.34	33	
27	47.06	26.47	2.94	2.94	2.94	5.88	0.00	0.00	0.00	11.76	.93	1.44	30	
28	11.76	44.12	14.71	11.76	2.94	2.94	0.00	0.00	0.00	11.76	1.03	1.15	30	
29	17.65	41.18	11.76	8.82	0.00	0.00	0.00	0.00	2.94	17.65	1.15	.69	27	
30	14.71	41.19	14.71	5.88	2.94	2.94	0.00	0.00	2.94	14.71	1.39	1.18	28	
31	23.53	20.59	11.76	11.76	11.76	5.88	0.00	0.00	0.00	14.71	1.33	1.62	29	
32	44.12	29.41	5.88	0.00	5.86	0.00	0.00	0.00	0.00	14.71	.76	1.07	29	
33	26.47	35.29	8.82	14.71	0.00	0.00	0.00	0.00	0.00	14.71	1.14	1.04	29	
34-A	55.89	5.88	0.00	5.86	11.76	8.82	0.00	0.00	0.00	11.76	1.30	1.90	30	
34-B	0.00	0.00	0.00	0.00	0.00	2.94	0.00	0.00	0.00	97.06	9.00	0.00	1	
35	58.82	2.94	8.82	0.00	23.53	2.94	0.00	0.00	0.00	2.94	1.33	1.80	33	
ACTIVITY														
36	58.82	0.00	8.82	2.94	14.71	11.76	0.00	0.00	0.00	2.94	1.48	1.97	33	
37	44.12	2.94	17.65	2.94	14.71	14.71	0.00	0.00	0.00	2.94	1.55	1.96	33	
38	73.53	0.00	5.86	8.82	8.82	0.00	0.00	0.00	0.00	2.94	.76	1.39	35	
39	58.82	0.00	20.59	2.94	5.88	8.82	0.00	0.00	0.00	2.94	1.21	1.70	33	
40	0.00	82.35	17.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	6.47	34	BINOMIAL
INDIVIDUAL														
41	0.00	65.28	34.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	2.59	72	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.30	5.67	70	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	39.70	10.97	71	
44	0.00	40.28	37.50	16.67	0.00	0.00	0.00	0.00	4.17	1.39	1.75	.74	68	
45	0.00	94.44	2.78	0.00	0.00	0.00	0.00	0.00	2.78	0.00	Z =	7.89	72	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.35	.82	72	
51	0.00	30.30	0.00	24.24	1.52	9.09	10.61	12.12	1.52	10.61	4.11	2.73	66	
52	0.00	45.83	19.44	13.89	1.39	0.00	0.00	0.00	13.89	5.56	1.64	.82	58	

WASHINGTON - SITE NO. 0106

NUMBER OF RESPONDENTS = 74

QUESTION	RESPONSE CATEGORIES 0	1	2	3	4	5	6	7	8	9	MEAN	SDEV	CASES	
						NEIGHBORHOOD								
2	0.00	56.76	43.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.43	.50	74	
3	0.00	0.00	2.74	4.11	10.96	2.74	6.85	8.22	5.48	58.90	7.45	2.17	73	
4	0.00	10.81	44.59	36.49	5.41	2.70	0.00	0.00	0.00	0.00	2.45	.86	74	
5	0.00	20.27	67.57	0.00	0.00	0.00	0.00	0.00	5.41	6.76	Z =	-4.34	65	BINOMIAL
6	0.00	8.11	65.81	0.00	0.00	0.00	0.00	0.00	5.41	25.68	Z =	-5.46	51	BINOMIAL
7	0.00	17.57	52.70	0.00	0.00	0.00	0.00	0.00	10.92	10.81	Z =	-3.61	52	BINOMIAL
8	0.00	0.00	33.78	0.00	0.00	0.00	0.00	0.00	21.62	44.59	Z =	-5.00	25	BINOMIAL
9	0.00	21.62	78.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-4.82	74	BINOMIAL
10	0.00	0.00	20.27	0.00	0.00	0.00	0.00	0.00	0.00	79.73	Z =	-3.87	15	BINOMIAL
						NOISE								
11	0.00	56.76	37.84	5.41	0.00	0.00	0.00	0.00	0.00	0.00	Z =	1.67	74	BINOMIAL
12-A	2.38	0.00	11.90	50.00	33.33	2.38	0.00	0.00	0.00	0.00	3.19	.85	42	
12-B	0.00	0.00	28.57	35.71	25.00	10.71	0.00	0.00	0.00	0.00	3.18	.97	28	
13	0.00	55.41	44.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	.95	74	BINOMIAL
14	0.00	12.12	21.21	42.42	15.15	6.06	0.00	0.00	3.03	0.00	2.81	1.04	33	
15	0.00	12.12	12.12	18.18	15.15	39.39	0.00	0.00	3.03	0.00	3.55	1.43	33	
16	0.00	30.30	0.00	3.03	66.67	0.00	0.00	0.00	0.00	0.00	3.06	1.37	33	
17	0.00	12.12	69.70	18.18	0.00	0.00	0.00	0.00	0.00	0.00	2.06	.55	33	
18	0.00	9.09	36.36	54.55	0.00	0.00	0.00	0.00	0.00	0.00	2.45	.66	33	
19	33.33	30.30	21.21	9.09	3.03	3.03	0.00	0.00	0.00	0.00	1.27	1.26	33	
						SOURCES								
20	18.18	35.33	15.16	9.09	21.21	0.00	0.00	0.00	0.00	0.00	1.82	1.40	33	
21	12.12	30.30	18.18	12.12	15.15	12.12	0.00	0.00	0.00	0.00	2.24	1.60	33	
22	27.27	42.42	12.12	12.12	3.03	3.03	0.00	0.00	0.00	0.00	1.30	1.24	33	
23	15.15	36.36	27.27	6.06	3.03	12.12	0.00	0.00	0.00	0.00	1.82	1.49	33	
24	51.52	9.09	15.15	9.09	9.09	6.06	0.00	0.00	0.00	0.00	1.33	1.65	33	
25	36.36	39.39	9.09	9.09	3.03	0.00	0.00	0.00	0.00	0.00	.97	1.06	33	
26	6.06	42.42	15.15	9.09	21.21	6.06	0.00	0.00	0.00	0.00	2.15	1.46	33	
27	51.52	24.24	0.00	6.06	9.09	9.09	0.00	0.00	0.00	0.00	1.24	1.72	33	
28	12.12	48.48	9.09	12.12	9.09	6.06	0.00	0.00	3.03	0.00	1.75	1.41	33	
29	27.27	42.42	9.09	9.09	3.03	3.03	0.00	0.00	0.00	6.06	1.23	1.24	33	
30	30.30	36.36	0.00	12.12	12.12	3.03	0.00	0.00	0.00	6.06	1.45	1.52	33	
31	12.12	30.30	12.12	9.09	21.21	9.09	0.00	0.00	0.00	6.06	2.26	1.65	33	
32	63.64	15.15	6.06	0.00	9.09	0.00	0.00	0.00	0.00	6.06	.68	1.23	33	
33	42.42	30.30	12.12	6.06	3.03	0.00	0.00	0.00	0.00	6.06	.90	1.06	33	
34-A	87.88	0.00	0.00	0.00	3.03	0.00	0.00	0.00	0.00	9.09	.13	.72	30	
34-B	0.00	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	96.97	2.00	0.00	1	
35	48.48	0.00	12.12	9.09	9.09	21.21	0.00	0.00	0.00	0.00	1.94	2.07	33	
						ACTIVITY								
36	63.64	0.00	3.03	9.09	18.18	6.06	0.00	0.00	0.00	0.00	1.36	1.67	33	
37	51.52	0.00	12.12	3.03	16.16	15.15	0.00	0.00	0.00	0.00	1.82	2.04	33	
38	72.73	0.00	9.09	9.09	6.06	3.03	0.00	0.00	0.00	0.00	.85	1.48	33	
39	57.58	3.03	6.06	6.06	15.15	12.12	0.00	0.00	0.00	0.00	1.55	1.97	33	
40	0.00	78.79	21.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	5.76	33	BINOMIAL
						INDIVIDUAL								
41	0.00	35.14	64.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	-2.56	74	BINOMIAL
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.92	4.78	71	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	36.06	12.11	71	
44	0.00	44.59	33.78	21.62	0.00	0.00	0.00	0.00	0.00	0.00	1.77	.78	74	
45	0.00	97.30	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Z =	8.14	74	BINOMIAL
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	.57	1.01	74	
51	0.00	22.73	0.00	13.64	4.55	13.64	7.58	10.61	9.09	18.18	5.06	2.91	66	
52	0.00	24.32	27.03	10.81	6.76	5.41	1.35	2.70	1.35	20.27	2.45	1.53	58	

APPENDIX C

SUMMARY LIST OF PRODUCT-MOMENT CORRELATIONS AMONG QUESTIONNAIRE ITEMS COMPUTED ON AN INDIVIDUAL BASIS

AGE - RESIDNCE (.29)

AIRPLANE - HELICPTR (.36)

AUTOMOBL - BIGTRUCK (.31), BUSES (.24), FEARSTRT (.25), HEALTH (.21), HOWANYNG (.24), MOTORVEH (.46), NOISEJUD (.27), SLEEPINT (.22), SMLTRUCK (.34), SPRTSCAR (.25), TALKINT (.23), TRAFFIC (.39), VOICES (.21)

BIGTRUCK - AUTOMOBL (.31), BUSES (.44), CONSTRCT (.28), FEARSTRT (.23), HEALTH (.21), L_{dn} (.29), LISTNINT (.22), MOTORVEH (.36), NOISEJUD (.23), SMLTRUCK (.63), SPRTSCAR (.28), TALKINT (.30), TRAFFIC (.50)

BUSES - AUTOMOBL (.24), BIGTRUCK (.44), CONSTRCT (.21), L_{dn} (.28), MOTORVEH (.26), MOTRCYCL (.26), SMLTRUCK (.40), TALKINT (.24)

COMPLAIN - SLEEPINT (.22)

CONSTRCT - BIGTRUCK (.28), BUSES (.21), FEARSTRT (.26), SMLTRUCK (.27), TALKINT (.25), TRAFFIC (.25)

DENSITY - GARDEN (-.24), INCOME (-.30), L_{dn} (.52), NOISEJUD (.24), RADIORTV (.21), RATELIVE (.31), VOICES (.28)

EVERBTHR - HEALTH (.22), NOISEJUD (.50), RATELIVE (.21)

FEARSTRT - AUTOMOBL (.25), BIGTRUCK (.23), CONSTRCT (.26), HEALTH (.24), HOWANYNG (.20), MOTORVEH (.30), NOISEJUD (.21), TALKINT (.35), VOICES (.21), WINDOWS (.24)

GARDEN - DENSITY (-.24), HELICPTR (.21), L_{dn} (-.29)

HEALTH - AUTOMOBL (.21), BIGTRUCK (.21), EVERBTHR (.22), FEARSTRT (.24), HOWANYNG (.26), NOISEJUD (.23), SLEEPINT (.25), TALKINT (.25), WINDOWS (.27)

HELICPTR - AIRPLANE (.36), GARDEN (.21), L_{dn} (.23)

HOWANYNG - AUTOMOBL (.24), FEARSTRT (.20), HEALTH (.26), LISTNINT (.26), MOTORVEH (.26), NOISEJUD (.42), RATELIVE (.25), SLEEPINT (.34), TALKINT (.28), TRAFFIC (.21), VOICES (.30), WINDOWS (.30)

INCOME - DENSITY (-.30), L_{dn} (-.31), RATELIVE (-.39), VOICES (-.20)

INOROUT - TODANYNG (.30)

L_{dn} - BIGTRUCK (.29), BUSES (.28), DENSITY (.52), GARDEN (-.29), HELICPTR (-.23), INCOME (-.31), NOISEJUD (.29), RATELIVE (.31), SMLTRUCK (.25), TRAFFIC (.36), VOICES (.20)

LISTNINT - BIGTRUCK (.22), HOWANYNG (.26), MOTORVEH (.31), NOISEJUD (.29), RATELIVE (.21), SMLTRUCK (.27), TALKINT (.39), WINDOWS (.37)

LSTLIKE1 - MOVERESN (.25), NOISEJUD (-.25)

MOSTLIK1 - NOISEJUD (.22)

MOTRCYCL - BUSES (.26), MOTORVEH (.28), SMLTRUCK (.20), SPRTSCAR (.33)

MOTORVEH - AUTOMOBL (.46), BIGTRUCK (.36), BUSES (.26), FEARSTRT (.30), HOWANYNG (.26), LISTNINT (.31), MOTRCYCL (.38), NOISEJUD (.29), SLEEPINT (.28), SMLTRUCK (.31), SPRTSCAR (.35), TALKINT (.37), TRAFFIC (.37), WINDOWS (.31)

MOVERESN - LSTLIKE1 (.25), NOISEJUD (-.25), OTHRSRCE (-.20), SLEEPINT (-.24)

NOISEJUD - AUTOMOBL (.27), BIGTRUCK (.23), DENSITY (.24), EVERBTHR (.50), FEARSTRT (.21), HEALTH (.23), HOWANYNG (.42), L_{dn} (.29), LISTNINT (.29), LSTLIKE1 (-.25), MOSTLIK1 (.22), MOTORVEH (.29), MOVERESN (-.25), RATELIVE (.40), SLEEPINT (.24), TALKINT (.24), TODANYNG (.24), TRAFFIC (.35), VOICES (.30), WINDOWS (.26)

OTHRSRCE - MOVERESN (-.20)

PETNOISE - SLEEPINT (.25)

RATELIVE - DENSITY (.31), EVERBTHR (.21), HOWANYNG (.25), INCOME (-.39), L_{dn} (.31), LISTNINT (.21), NOISEJUD (.40), THNKMOVE (-.33), VOICES (.37)

RADIORTV - DENSITY (.21), VOICES (.30)

RESIDNCE - AGE (.29)

SLEEPINT - AUTOMOBL (.22), COMPLAIN (.22), HEALTH (.25), HOWANYNG (.34), MOTORVEH (.28), MOVERESN (-.24), NOISEJUD (.24), PETNOISE (.25), TALKINT (.28), VOICES (.26), WINDOWS (.37)

SMLTRUCK - AUTOMOBL (.34), BIGTRUCK (.63), BUSES (.40), CONSTRCT (.27), L_{dn} (.25), LISTNINT (.27), MOTORVEH (.31), MOTRCYCL (.20), SPRTSCAR (.28), TALKINT (.34), TRAFFIC (.45), WINDOWS (.21)

SPRTSCAR - AUTOMOBL (.25), BIGTRUCK (.28), MOTORVEH (.35), MOTRCYCL (.33), SMLTRUCK (.28), TRAFFIC (.22), WINDOWS (.21)

TALKINT - AUTOMOBL (.23), BIGTRUCK (.30), BUSES (.24), CONSTRCT (.25), FEARSTRT (.35), HEALTH (.25), HOWANYNG (.28), LISTNINT (.39), MOTORVEH (.37), NOISEJUD (.24), SLEEPINT (.28), SMLTRUCK (.34), TRAFFIC (.26), VOICES (.18), WINDOWS (.37)

THNKMOVE - RATELIVE (-.33), VOICES (-.21)

TODANYNG - INOROUT (.30), NOISEJUD (.24), VOICES (.22)

TRAFFIC - AUTOMOBL (.39), BIGTRUCK (.50), CONSTRCT (.25), HOWANYNG (.21), L_{dn} (.36), MOTORVEH (.37), NOISEJUD (.35), SMLTRUCK (.45), SPRTSCAR (.22), TALKINT (.26), WINDOWS (.20)

VOICES - AUTOMOBL (.21), DENSITY (.28), FEARSTRT (.21), HOWANYNG (.30), INCOME (-.20), L_{dn} (.20), NOISEJUD (.30), RADIORTV (.30), RATELIVE (.37), SLEEPINT (.26), TALKINT (.18), THNKMOVE (.21), TODANYNG (.22), WINDOWS (.20)

WINDOWS - FEARSTRT (.24), HEALTH (.27), HOWANYNG (.30), LISTNINT (.37), MOTORVEH (.31), NOISEJUD (.26), SLEEPINT (.37), SMLTRUCK (.21), SPRTSCAR (.21), TALKINT (.37), TRAFFIC (.20), VOICES (.20)

QUESTIONNAIRE ITEM NUMBER	VARIABLE NAME	RESPONSE CODE	CARD COLUMN(S)
11	QTORNSY	quiet-1 noisy-2 neither-3	19
12	NOISEJUD	slightly-2 moderately-3 very-4 extremely-5 neither noisy or quiet-0	20
13	EVERBTHR	no-1 yes-2	21
14	HOWANYNG	not at all-1 slightly-2 moderately-3 very-4 extremely-5	22
15	TODANYNG	no-1 morning-2 afternoon-3 evening-4 night-5	23
16	SOYANYNG	no-1 winter-2 spring-3 summer-4 fall-5	24
17	WKNDAY	no difference-1 weekends-2 weekdays-3	25
18	INOROUT	no difference-1 out-of-doors-2 in the house-3	26
19	CONSTRCT	(no-0	27
20	VOICES	not at all annoying-1	28
21	PETNOISE	slightly annoying-2	29
22	AIRPLANE	moderately annoying-3	30
23	HELICPTR	very annoying-4	31
24	RADIORTV	extremely annoying-5)	32

TECHNICAL REPORT DATA *(Please read Instructions on the reverse before completing)*		
1. REPORT NO. EPA 550-9-77-100	2.	3. RECIPIENT'S ACCESSION NO.
4. TITLE AND SUBTITLE The Urban Noise Survey		5. REPORT DATE August 1977
		6. PERFORMING ORGANIZATION CODE
7. AUTHOR(S) Sanford Fidell		8. PERFORMING ORGANIZATION REPORT NO.
9. PERFORMING ORGANIZATION NAME AND ADDRESS Bolt, Beranek,& Newman Canoga Park California		10. PROGRAM ELEMENT NO.
		11. CONTRACT/GRANT NO. 68-01-4184
12. SPONSORING AGENCY NAME AND ADDRESS U.S. Environmental Protection Agency Office of Noise Abatement and Control Washington D.C. 20460		13. TYPE OF REPORT AND PERIOD COVERED Final
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15. SUPPLEMENTARY NOTES		

16. ABSTRACT

Most of the existing social survey data base on community annoyance has been local in character and has been concerned primarily with airport and highway related noise. An essential element in assessing the impact of noise in urban areas away from airports and highways is the evaluation of the attitudes of people concerning the noise in the residential environment. A social survey was conducted to sample opinion over the entire range of noise exposure and population density characteristics of non-rural America. The objective of the Urban Noise Survey was to develop a first order relationship between noise exposure and human response as a function of situational and attitudinal variables associated with the life styles of people in various urban environments. This survey differed from prior surveys in the general area of noise pollution in several important aspects: (1) it was specifically designed to study noise exposure not directly related to airport and highway sources; (2) the social survey was made in conjunction with simultaneous physical measurements of noise exposure at sites with widely different noise environments; (3) it was national rather than local in character and was addressed to a broad rather than a narrow range of noise exposures and respondents' life styles.

(Continued)

17. KEY WORDS AND DOCUMENT ANALYSIS		
a. DESCRIPTORS	b. IDENTIFIERS/OPEN ENDED TERMS	c. COSATI Field/Group
Noise, Community Noise, Annoyance, Community Response		
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(Continued)

Some of the major conclusions are that:

a. exposure to noise typical of many urban (non-aircraft and non-highway) environments produces widespread annoyance, speech interference, and sleep disturbance.

b. a strong relationship was demonstrated between exposure level and the proportion of a community highly annoyed by noise.

c. the prevalence of speech interference is an especially good predictor of annoyance.

d. the number of complaints about noise is a poor predictor of the prevalence of annoyance.

e. demographic factors alone are relatively poor predictors of noise annoyance.

f. freedom from noise exposure is a component of neighborhood satisfaction, and quiet is highly valued.

g. noises associated with automotive sources are the most pervasive sources of annoying noise in urban areas.

h. annoyance associated with intrusive noise sources may be related to measurable noise exposure from such sources, even when their magnitudes are not as great as the level of overall exposure in a community.

i. there is some evidence that human response to noise exposure at L_{dn} values in excess of 70 dB is more acute than at lower levels.

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