AWARENESS OF FLASH FLOODING AMONG CLARK COUNTY RESIDENTS

Prepared For:

REGIONAL FLOOD CONTROL DISTRICT



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I. INTRODUCTION

A. Background and Objectives

For the past two years, THE MERICA AGENCY has executed an advertising campaign for the CLARK COUNTY REGIONAL FLOOD CONTROL DISTRICT. District management is interested in ascertaining to what degree the advertising is reaching the market and whether any specific groups of residents are being missed. Based on the information from this survey, possible adjustments can be made by redirecting portions of the advertising budget toward lower incidence communities or demographic groups.

The specific objectives of this study were to determine, among Clark County residents . . .

- -> unaided and aided awareness of the dangers of flash flooding in Clark County.
- -> from which sources they obtained information about flash flooding.
- -> to what degree they were affected by the July 8, 1999 flooding.

B. Methods and Procedures

To meet the stated objectives, a telephone survey was conducted with 500 Clark County residents who are 18 years or older between Wednesday, October 6, 1999 and Tuesday, October 19, 1999.

One of the largest and most respected suppliers of scientific samples was employed to provide a representative sample of all working residential telephone numbers in Clark County.

During the call attempts, when a no answer, busy signal or answering machine was reached. at least four call backs were made on different days and at different times of the day before the number was replaced with a number from a replicate sample.

Based on the final sample distribution proportions across the county, we believe this sample accurately represents both listed and unlisted telephone households and is projectable to all of Clark County.

The maximum margin of error for the 500 sample is plus or minus 4.4% at the 95% level of confidence. Where appropriate, statistically significant differences are indicated on the tables.

Each interview took approximately 5 minutes to complete.

The flow of the interview and the exact wording of the questions can be discerned by examining the questionnaire in the Appendix.

For analytical purposes, the Las Vegas valley was divided into quadrants. A map showing the quadrant zip code boundaries can be found in the Appendix.

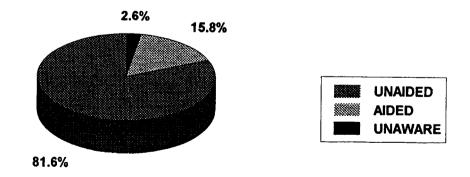
II. EXECUTIVE SUMMARY

Five hundred respondents, composing a representative sample of Clark County adult residents, were interviewed by telephone during the first half of October, 1999. Fifty-nine percent were women and 41% were men. Their median age is 49.4 years, they've lived in Clark County an average of 9.8 years, and there are 2.3 household members.

When asked if they could name the types of natural disasters that can be a danger to Clark County residents, 81.6% said "Flash Flooding/Flooding," significantly more than all other mentions, which included earthquakes (37.2%), wind/dust/sand storms (14.0%), fires (11.0%), tornados (6.0%), and several other natural and non-natural dangers. By sub-sample, "Flash Flooding/Flooding" was named more frequently by those under 50 years old and households with three or more members. There were no significant differences in flooding mentions by years lived in Clark County, gender, or area of Clark County lived in.

Those who did not spontaneously say flooding were asked if they were aware of the dangers of flash flooding in Clark County. In this aided or prompted situation, 15.8% said they were, thus providing a total awareness of 97.4% (unaided 81.6% + aided 15.8%).

Awareness of Dangers of Flash Floods

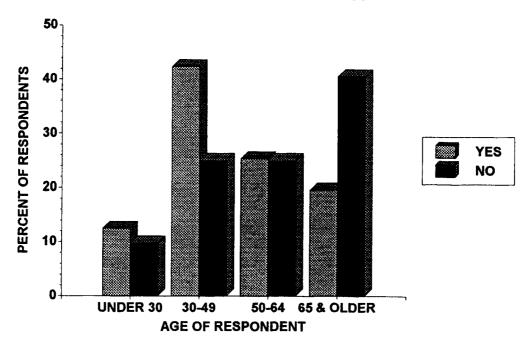


Although total awareness numbers are at a very high level overall, women (99.0%) are significantly more aware of flooding dangers than men (95.1%). There are no other significant differences by sub-sample.

Because of the very high level of total awareness, differences were looked at within the category of unaided awareness - those who had "top of mind," unprompted awareness compared to those who did not say flooding when probed for natural disaster dangers in Clark County.

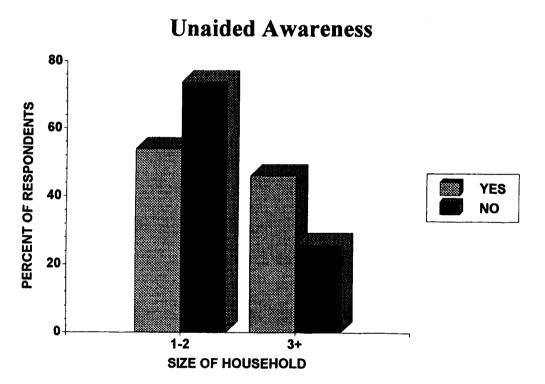
Interestingly, those who did not at first say flooding are significantly older (58.5 years) than those who did say flooding (47.9 years). More specifically, a significantly greater proportion of those who did not initially say flooding are 65 years or older while a greater proportion of those who did say flooding are between 30 and 49 years old. This can be observed in the following chart by looking at the differences within each age group. The higher the "Yes" (said "flooding"), the better.

Unaided Awareness



Correlated with age is household size. Generally, older households tend to be one or two person households. A difference in unaided awareness was also discovered in the household size variable. Those who did not initially say flooding have smaller households (1.9 members), while those who did say flooding have larger households (2.4 members).

More specifically, a significantly greater proportion of those who did not say flooding are in one or two person households, while those who did say flooding are in three or larger person households.



When those who are aware of flooding dangers were asked how they learned about the dangers of flash flooding in Clark County, by far the most frequent response (67.4%) was that they learned about it "by living here/seeing it happen/through personal experience." Other mentions, in

rank order, were TV (14.0%), news-unspecified (11.3%) TV news (9.4%), newspaper (6.4%), family/parents/friends (3.3%), radio (2.3%), and many others which are all less than 2% of the sample.

Respondents were then asked whether they had heard or read about flash flooding dangers from eleven specified sources, which were read to them one at a time. In this aided situation, TV News (96.9%) was cited significantly more than all other sources. And although the Flood Control District does not, to our knowledge, do much in the way of TV advertising, TV Advertising was selected as the second most frequent source (74.9%). This may be due to a "halo effect," wherein people get so much information from TV they may have considered any type of flood warning on television as a form of advertising. Following is the complete list of sources in rank order.

74.9% TV Advertising
74.5% Newspaper or Magazine Story
65.1% Radio News
53.2% Newspaper of Magazine Ad
50.7% Radio Advertising
46.6% Friends or Relatives
39.4% Billboard
20.1% Brochure
16.0% Children
12.3% Bus Stop Shelter Ad

There are some interesting sub-sample differences for these flood information sources. Younger (under 50) residents are significantly more likely than older residents to cite TV News, TV Advertising, Radio News, Radio Advertising, Friends or Relatives, Billboard, Children and Bus Stop Shelter Ad. Larger (3+) households are significantly more likely than smaller households to cite Newspaper or Magazine Ad, Radio Advertising, Friends or Relatives, Billboard and Children. And those living in Clark

County 6 or more years are significantly more likely than newer residents to cite Newspaper or Magazine Ad, Brochure and Children.

There are also some differences in flood information sources by geographic area. Residents in the Northeast and Southeast valley are significantly more likely to say Newspaper or Magazine Story and Friends and Relatives than residents in the Northwest valley. Residents in the Southwest valley are significantly more likely to say Billboard than residents in the Northeast or Southeast. Residents in the Hispanic area are significantly more likely to say Newspaper or Magazine Ad than Green Valley residents, while Green Valley residents are more likely to say Billboard than Hispanic area residents.

A great majority (95.4%) of these residents remember the July 8th flooding. Of those who recalled it, 29.4% said they were affected by it. Younger (under 50) residents were more likely to have been affected by it than older residents. The most frequent way they were affected was "driving delay/getting around" (31.4%). Other mentions, in rank order, were "car/truck damage" (15.0%), "home water damage" (14.3%), "couldn't get home" (10.0%), "couldn't get out of home" (8.6%), "couldn't get to work" (7.1%), "our street flooded" (5.7%), and several other mentions, all less than 3%.

Finally, residents were asked if they believed that other household members are aware of the dangers of flooding. These respondents felt that virtually all of the other adults in the household were aware (99.5%), virtually all of the teen-agers (98.6%) and three-fourths (74.5%) of the younger children were aware of flash flooding dangers.

III. CONCLUSIONS AND RECOMMENDATIONS

There is a very high level of awareness of the dangers of flash flooding throughout Clark County. This may be due in part to the July 8th "100 Year Flood," which is still fresh in many residents' minds.

Based on the high awareness level, flood danger advertising is in the third, or retentive, stage of advertising. As time passes and should there not be any serious flooding for a while, it is advisable that a retentive advertising campaign be run to remind old residents and educate new residents about the dangers of flash flooding.

Other than experiencing flash flooding first hand, TV news is the primary source of information about flash flooding, when it happens. Based on this study, it would appear that radio and billboards are effective advertising ways to remind residents about flash flooding, and if it can be afforded - TV advertising. Bus stop shelter ads do not appear to reach a large audience because most residents may not see them, and those who do see them may not register them.

Based on this study, it would appear that an effective allocation of increased advertising dollars be directed toward older residents, those primarily 65 years and older. This can be accomplished by advertising in senior publications, radio stations that target seniors, and any other media outlets that appeal to seniors.

IV. DETAILED FINDINGS

Five hundred respondents, constituting a representative sample of Clark County adult residents, were interviewed by telephone during the first half of October, 1999.

In addition to reporting information by total respondents, data was cross-tabulated by years lived in Clark County, gender, age, number of people in the household, quadrant of the valley lived in, three specific areas, and by whether or not they said "flash flooding/flooding" when asked to name types of natural disasters that can be a danger to residents.

A. Awareness of Flooding

After first verifying their Zip code and asking how long they have lived in Clark County, respondents were asked if they could name the types of natural disasters that can be a danger to residents of Clark County. In this unaided situation, 81.6% of all residents said "Flash Flooding" or "Flooding," significantly higher than all other mentions. The second most frequent mention was earthquakes (37.2%), followed by wind/dust/sand storms (14.0%), fires (11.0%), tornados (6.0%), and several other natural and non-natural dangers - such as the Nuclear Test Site/Yucca Mountain. Ten percent of respondents could not name any natural disasters that can be a danger to Clark County residents.

By sub-sample, "Flash Flooding/Flooding" was significantly more likely to be mentioned by under 50 year old residents (87.5%) than by 50 and older residents (75.3%); and by households with three or more people (88.7%) than by one or two member households (76.4%). There was no significant difference in mentions of "Flash Flooding/Flooding" by years lived in Clark County, gender, or area of Clark County lived in.

(See Tables 1a & 1b)

The 92 residents who did not spontaneously mention "Flash Flooding/ Flooding" were then asked if they were aware of the dangers of flash flooding here in Clark County. In this aided situation, 85.9% of these residents (15.8% of all respondents) said they were aware of the dangers of flooding.

The only sub-sample difference in aided awareness is that women (93.8%) were more likely to be aware of the dangers of flooding than men (77.3%).

(See Tables 2a & 2b)

Total awareness was derived by combining the previous unaided and aided responses. Across the total sample, 97.4% of these residents are aware of the dangers of flash flooding. Just 2.6% (13 of the 500 respondents) are not aware of this danger. By sub-sample, women (99.0%) are significantly more aware than men (95.1%). There are no other significant sub-sample differences.

(See Tables 3a & 3b)

B. Sources of Information

The residents who were aware of the dangers of flooding were asked questions about how they obtained information about flooding before their awareness and experience with the July 8th flood and their demographic characteristics were obtained; while those not aware of the dangers of flooding were skipped ahead to the July 8th questioning.

The 487 residents who were aware of the flooding dangers were asked how they learned about the dangers of flash flooding in Clark County.

Close to two-thirds (62.4%) of these residents in this unaided situation said they learned about flash flooding "by living here/seeing it happen/through personal experience." This response was significantly far above all other answers. Because of the way some responses were given and recorded, especially regarding TV and News, responses were tabulated as given and no assumptions were made. Thus, "TV" was the second most frequent mention (14.0%), followed by "News - unspecified" (11.3%) and "TV News" (9.4%). Continuing on, the fifth mention is "newspaper" (6.4%), then "family/parents/friends" (3.3%), "radio" (2.3%), "media" (1.6%), "billboard" (1.2%), "in school" (1.2%), "work for city/county/government" (1.2%), and several other mentions, all less than 1%. The reader may wish to inspect the sub-sample frequencies for any useful patterns.

(See Tables 4a & 4b)

Respondents were then read a list of eleven possible sources and asked to indicate whether they heard or read about flash flooding dangers from each source. In this aided situation, TV News (96.9%) was cited significantly more than all other sources. Next, TV Advertising (74.9%) and Newspaper or Magazine Story (74.5%) were chosen significantly more than the remaining sources. Radio News (65.1%) is in fourth place, significantly higher than the remaining sources. Newspaper or Magazine Ad (53.2%) is significantly higher than all others except Radio Advertising (50.7%), which is significantly higher than all others except Friends or Relatives (46.6%). Friends or Relatives is significantly higher than the remaining four sources, and each of the four - Billboard (39.4%), Brochure (20.1%), Children (16.0%), Bus Stop Shelter Ad ((12.3%) - is significantly higher than those below it.

By sub-sample, compared to those who've lived in Clark County 5 years or less, those who've lived in Clark County 6 years or more were significantly more likely to cite Newspaper or Magazine Ad, Brochure and Children. Compared to women, men were significantly more likely to say Brochure.

Compared to those 50 and older, those under 50 were significantly more likely to say TV News, TV Advertising, Radio News, Radio Advertising, Friends or Relatives, Billboard, Children and Bus Stop Shelter Ad. Compared to one or two person households, those with three or more in the home were significantly more likely to say Newspaper or Magazine Ad, Radio Advertising, Friends or Relatives, Billboard and Children.

(See Table 5a)

Continuing with sub-sample differences in information sources, residents in the Northeast and Southeast valley are significantly more likely to cite Newspaper or Magazine Story and Friends or Relatives than residents in the Northwest valley. Residents in the Southwest are significantly more likely to state Billboard than residents in the Northeast or Southeast. And residents in the Southeast are significantly more likely to say Children than residents in the Northwest. Finally, residents in the Hispanic area are significantly more likely to say Newspaper or Magazine Ad than Green Valley residents, while Green Valley residents are more likely to say Billboard than Hispanic area residents.

(See Table 5b)

Respondents were also asked if they could think of any other ways they may have heard or say information about flash flooding. The vast majority said they couldn't. The few responses offered (25) included "word of mouth/talking to people," "through school/classes," "online/ Internet," "posted signs on the road," "Girl Scouts," "Red Rock Canyon tour," "the Weather Channel," "poster at work" and "parents taught me."

(See Tables 6a & 6b)

C. July 8th, 1999 Flooding

All respondents, whether they said they were aware of the dangers of flash flooding or not, were asked if they recall the flash flooding last July 8th. As would be expected, a preponderance (95.4%) said they did recall the flooding. There was just one significant difference in sub-sample comparisons. Compared to one and two person household (94.1%), those with three or more household members are more likely to recall the flooding (97.2%). It should be noted that residents in Clark County areas outside of the valley (such as Laughlin, Moapa Valley, Searchlight, etc.) were at a lower 86.7%, but statistical significance was not calculated because of a small sample size.

(See Tables 7a & 7b)

Those who recalled the July 8th flooding were asked if they were affected in any way by that flooding and 29.4% said that they were. The only sub-sample significant difference is that those under 50 years old were more likely to be affected by the flood (37.1%) than those 50 and older (21.2%). Again, note that the outlying areas were less affected (7.7%), but that statistical significance was not calculated.

(See Tables 8a & 8b)

The residents who said they were affected were asked how they were affected. The most frequent response was "driving delay/getting around" (31.4%). This was followed by "car/truck damage" (15.0%), "home water damage" (14.3%), "couldn't get home" (10.0%), "couldn't get out of home" (8.6%), "couldn't get to work" (7.1%), "our street flooded" (5.7%), "trapped in car" (2.9%), "getting children from school" (2.1%), "waded in water to cross the street" (2.1%) and several other mentions, all under 2%. An inspection of the tables will indicate sub-sample differences.

(See Tables 9a & 9b)

D. Characteristics of the Sample

In our sampling procedure, we asked to speak to either the male or female head of the household. If neither was available, the interview was conducted with a permanent resident of the household who is 18 years or older.

There was a good sampling by gender, with 40.6% of the total sample being men and 59.4% being women. A significantly greater proportion of those who've lived in Clark County 6 or more years were men and a significantly greater proportion of those who've lived in Clark County 5 years or less were women. A significantly greater proportion of one or two member households were men while a significantly greater proportion of three or more member households were women.

(See Tables 10a & 10b)

For the most part, one of the heads of household were interviewed (92.8%). When an other member of the household was interviewed, that person was significantly more likely to be female, under 50 years old, and from a household with three or more members.

(See Tables 11a & 11b)

The median age of these residents is 49.4 years. Residents who have lived in Clark County 6 or more years are significantly older (51.8) than those who have lived in Clark County 5 years or less (45.1). Residents from one or two member households are significantly older (58.7) than those from three or more member households (41.4). There are no statistically significant differences in age by area lived in, although the trends in the data indicate that older residents live in the Southeast and Northwest and

younger residents live in the Northeast and Southwest. Additionally, although not statistically significant, Summerlin residents are older than Green Valley residents, who are older than Hispanic residents.

(See Tables 12a & 12b)

The median time these residents have lived in Clark County is 9.8 years. Residents who are 50 or older have lived in Clark County significantly longer (12.6 years) than those under 50 (8.9 years). Residents who live in the Southeast have lived in Clark County significantly longer (12.3 years) than residents in the Southwest (7.7 years). And although not statistically significant, on trend residents in the Northeast have lived in Clark County longer (12.6 years) while residents in the Northwest have lived in Clark County a shorter time (8.9 years). Additionally, Hispanic area residents have lived in Clark County significantly longer (15.5 years) than Green Valley residents (7.8 years) and, although not statistically significant because of sample size, longer than Summerlin residents (7.1 years).

(See Tables 13a & 13b)

The median number of household members is 2.3. Female respondent households are significantly larger (2.4) than male respondent households (2.2). Under 50 year old households are significantly larger (3.1) than 50 and older households (1.9). Hispanic area households are significantly larger (2.5) than Green Valley households (2.3) and, again although not statistically significant, larger than Summerlin households (2.2).

(See Tables 14a & 14b)

Excluding single person households, virtually all households interviewed (98.8%) had another adult in addition to the respondent. Thus, 1.2% were homes with just one adult and one or more children. Across the total sample, 18.5% of the households had children between 13 and 17 years old. A third (34.2%) had children under 13 years old. By sub-sample, as would be expected, younger households and those with 3 or more household members are more likely to have children in the household.

(See Tables 15a & 15b)

When the respondent was asked if he or she believed that other people in the household in the different age groups are aware of the dangers of flash flooding, the respondents felt that virtually all of the adults (99.5%), virtually all of the teen-agers (98.6%), and three-fourths (74.5%) of the younger children were aware of flash flooding dangers. This lower proportion is logical because some of the children are very young or infants. There were no sub-sample significant differences in awareness by age group.

(See Tables 16a - 19b)

E. Comparison by Unaided Awareness

In this section, differences in demographic and other characteristics are noted between those residents who initially named "Flash Flooding/ Flooding" as a natural disaster danger in Clark County and those who did not spontaneously mention flooding as a danger. These comparisons look at the previous data from a different perspective. All of the differences cited below are statistically significant.

Looking at unprompted awareness of flooding by area of Clark County, proportionately more Northwest valley residents said flooding (24.3% vs. 16.3% Northwest residents not initially saying flooding).

And proportionately more outlying area residents did not initially say flooding (8.7% vs. 1.7% outlying residents initially saying flooding).

A greater proportion of those who initially said flooding were aware of the July 8th flash flooding while a greater proportion of those who did not initially say flooding were not aware of the July 8th flash flooding.

A greater proportion of those who initially said flooding were affected by the July 8th flash flooding while a greater proportion of those who did not initially say flooding were not affected by the July 8th flash flooding.

A greater proportion of those who did not initially say flooding are 65 years or older while a greater proportion of those who did initially say flooding are between 30 and 49 years old. Across the entire distribution, those who did not initially say flooding are significantly older (58.5 years) than those who did initially say flooding (47.9 years).

A greater proportion of those who did not initially say flooding are one person households while a greater proportion of those who did initially say flooding are in three member households. Across the entire distribution, those who initially said flooding have larger households (2.4 members) than those who did not initially say flooding (1.9 members).

Looking at unaided awareness by household composition, proportionately more households with children under 13 said flooding (36.0% vs. 24.2% of under 13 households not saying flooding).

(See Tables 20 - 33)

For those readers interested in inspecting unaided awareness by individual Zip Code, this data can be found in Table 22.

V. SUPPORTING TABLES

Table 1a

UNAIDED AWARENESS: NAME: TYPES OF NATURAL DISASTERS THAT CAN BE A DANGER
TO RESIDENTS OF CLARK COUNTY

***************************************		IN CLA	LIVED RK CO	RESPO	ER OF ONDENT	RESPO	AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL	5 YRS. & LESS	6 YRS. & MORE		FENALE	UNDER 50 YRS	50 & OLDER		3 OR Nore	
No, Can't Name Any		14 9.9			23 7.7		37 15.2			
Flash Flooding/ Flooding		117 83.0						220 76.4		
Earthquakes	186 37.2%	48 34.0						112 38.9		
Wind/Dust/Sand Storms	70 14.0%	19 13.5				42 16.4		36 12.5		
Fires	55 11.0%	16 11.3		19 9.4		24 9.4			21 9.9	
Tornados	30 6.0%	8 5.7		14 6.9					12 5.7	
Nuclear Test Site/ Yucca Mountain	24 4.8%	5 3.5	19 5.3	7 3.4	17 5.7		13 5.3		7 3.3	
Lightning	18 3.6%	6 4.3	12 3.3	9 4.4	9 3.0	9 3.5	9 3.7	12 4.2	6 2.8	
Pollution/Smog	8 1.6%		5 1.4	2 1.0	6 2.0	4 1.6	4 1.6		4 1.9	
Storms (unspecified)	8 1.6%			4 2.0					2 0.9	
Nuclear/Chemical Spills		1 0.7				2 0.8				
High Temperature/ Heat	6 1.2%	0.7	5 1.4	1 0.5	5 1.7	4 1.6	2 0.8	3 1.0	3 1.4	
Hail Storms	4 0.8%	0.7	3 0.8	1 0.5	3 1.0	1 0.4	3 1.2	3 1.0	1 0.5	
Natural Gases	2 0.4%	0.7	1 0.3	1 0.5	1 0.3	0	0.8	1 0.3	1 0.5	
All Other Single Mentions	12 2.48	0.7	11 3.1	8 3.9	4 1.3		5 2.1		5 2.4	
0k!										

Continued...

(Table Continued)

TOTAL RESPONSES	889	242	647	355	534	450	436	517	372
BASE=NET RESPONDENTS									
NET RESPONDENTS	500	141	359	203	297		243	288	212

NOTE: For the "Flash Flooding/Flooding" row, arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 1b

UNAIDED AWARENESS: NAME TYPES OF NATURAL DISASTERS THAT CAN BE A DANGER
TO RESIDENTS OF CLARK COUNTY

OUADRANT OF VALLEY SPECIFIC AREAS NORTH NORTH SOUTH SOUTH OUT- HIS- GREEN SUMMER TOTAL EAST WEST EAST WEST LYING PANIC VALLEY LIN No, Can't Name Any 52 13 9 19 6 2 5 4 2 10.4% 12.3 7.9 9.7 8.6 33.3 11.1 6.3 8.7 Flash Flooding/ 408 87 99 159 56 30 27 20 Flooding 81.6% 82.1 86.8 81.5 80.0 46.7 83.3 84.4 87.0 Earthquakes 186 35 53 65 28 5 12 11 12 37.2% 33.0 46.5 33.3 40.0 33.3 33.3 34.4 52.2 Wind/Dust/Sand 70 15 20 24 8 5 14.2 Storms 14.0% 17.5 12.3 11.4 20.0 19.4 12.5 21.7 Fires 55 12 13 18 9 3 3 11.0% 11.3 11.4 9.2 12.9 20.0 8.3 9.4 13.0 Tornados 30 16 1 2 6.0% 6.6 5.3 8.2 1.4 11.1 9.4 8.7 Nuclear Test Site/ 24 3 15 2 4 0 1 3 Yucca Mountain 4.88 2.8 3.5 7.7 2.9 2.8 9.4 Lightning 18 . 4 5 5 2 3.6% 3.8 4.4 2.6 5.7 5.6 6.3 Pollution/Smoq 8 3 1 3 1 1 1 0 1.5 1.6% 2.8 0.9 1.4 2.8 3.1 Storms (unspecified) 8 2 2 3 1 0 0 0 1 1.6% 1.9 1.8 1.5 1.4 4.3 Nuclear/Chemical 6 0 4 1 1 0 0 2 1 Spills 1.28 3.5 0.5 1.4 3.1 8.7 High Temperature/ 6 1 1 4 0 0 0 0 Heat 1.2% 0.9 0.9 2.1 Hail Storms 1 2 0 0 0 1 0 0 0.8 0.9 1.8 0.5 Natural Gases 2 1 0 1 0 0 0 1 0 0.48 0.9 0.5 3.1 All Other Single 12 5 3 2 1 1 2 0 0 Mentions 2.48 0.9 1.5 2.9 6.7 4.7 5.6

Continued...

(Table Continued)

TOTAL RESPONSES 889	189	220	337	119	24	66	58	47
BASE=NET RESPONDENTS 177.8%	178.3	193.0	172.8	170.0	160.0	183.3	181.3	204.3
NET RESPONDENTS 500	106	114	195	70	15	36	32	23

NOTE: For the "Flash Flooding/Flooding" row, there are no statistically significant differences between sub-samples at the 95% level of confidence.

Significance not calculated for samples below 30 respondents.

Table 2a

AIDED AWARENESS: (AMONG THOSE NOT SAYING "FLOODING" IN PREVIOUS QUESTION)

AWARE OF DANGERS OF FLASH FLOODING HERE IN CLARK COUNTY

		YEARS LIVED IN CLARK CO			GENDER OF RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL		6 YRS.		FENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More	
Yes	79 85.9%	19 79.2	60 88.2	34 77.3		27 84.4	52 86.7		21 87.5	
No	13 14.1%	_	-		\rightarrow 6.3	-	8 13.3	10 14.7	3 12.5	
TOTAL RESPONSES BASE=NET RESPONDENTS	92 100.0%	24 100.0	68 100.0	44 100.0	48 100.0	32 100.0	60 100.0	68 100.0	24 100.0	

NOTE: Arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 2b

AIDED AWARENESS: (AMONG THOSE NOT SAYING "FLOODING" IN PREVIOUS QUESTION)

AWARE OF DANGERS OF FLASH FLOODING HERE IN CLARK COUNTY

*************			QUADRA	NT OF V	SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Yes	79 85.9%	17 89.5	12 80.0	33 91.7	12 85.7	5 62.5	5 83.3	4 80.0	3 100.0
No	13 14.1	2 10.5		3 8.3		3 37.5	1 16.7		0
TOTAL RESPONSES BASE=NET RESPONDENTS	92 100.0	19 100.0	15 100.0	36 100.0	14 100.0	8	6 100.0	5 100.0	3

NOTE: There are no statistically significant differences between sub-samples at the 95% level of confidence.

Significance not calculated for samples below 30 respondents.

Table 3a

TOTAL AWARENESS:
UNAIDED AND AIDED AWARENESS OF FLASH FLOODING DANGERS

		YEARS LIVED GENDER OF IN CLARK CO RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD			
	TOTAL	5 YRS. & LESS		NALE	FENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
Aware Of Flash									
Flooding	487	136	351	193	294	251	235	278	209
•	97.4%	96.5	97.8	95.1	€-99.0	98.0	96.7	96.5	98.6
Not Aware Of Flash									
Flooding	13	5	8	10	3	5	8	10	3
·	2.6%	3.5	2.2	4.9	→ 1.0	2.0	3.3	3.5	1.4
TOTAL RESPONDENTS BASE=NET RESPONDENTS	500 100.0	141 100.0	359 100.0	203 100.0	297 100.0	256 100.0	243 100.0	288	212 100.0

NOTE: Arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 3b

TOTAL AWARENESS:
UNAIDED AND AIDED AWARENESS OF FLASH FLOODING DANGERS

			QUADRA	INT OF V	SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Aware Of Flash Flooding	487 97.4%	104 98.1	111 97.4	192 98.5	68 97.1	12 80.0	35 97.2	31 96.9	23 100.0
Not Aware Of Flash Flooding	13	2	37.4	3	2	3	1	1	0
TOTAL RESPONDENTS	2.6	1.9	2.6	1.5 195	2.9 70	20.0	2.8	3.1	23
BASE=NET RESPONDENTS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

NOTE: There are no statistically significant differences between sub-samples at the 95% level of confidence.

Significance not calculated for samples below 30 respondents.

Table 4a

HOW LEARN ABOUT DANGERS OF FLASH FLOODING IN CLARK COUNTY
(UNAIDED - AMONG ALL WHO ARE AWARE OF DANGERS OF FLOODING)

			YEARS LIVED GENDER IN CLARK CO RESPOND				OF INDENT	NUMBER IN HOUSEHOLD	
	TOTAL	5 YRS.		NALE	FENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR MORE
By Living Here/Saw It Happen/Experience				132 68.4	172 58.5	156 62.2	147 62.6	168 60.4	136 65.1
TV	68 14.0%	20 14.7	48 13.7	20 10.4	48 16.3	23 9.2	45 19.1	44 15.8	24 11.5
News (unspecified)	55 11.3%	21 15.4	34 9.7	19 9.8	36 12.2		15 6.4	31 11.2	24 11.5
TV News	46 9.48	7 5.1	39 11.1	15 7.8	31 10.5	27 10.8	19 8.1	25 9.0	21 10.0
Newspaper	31 6.4%	6 4.4	25 7.1	13 6.7	18 6.1	8 3.2	23 9.8	23 8.3	8 3.8
Family/Parents/ Friends	16 3.3%	8 5.9	8 2.3	4 2.1	12 4.1	12 4.8	4 1.7	8 2.9	8 3.8
Radio	11 2.3	2 1.5	9 2.6	6 3.1	5 1.7	7 2.8	4 1.7	5 1.8	6 2.9
Media	8 1.6%	4 2.9	4 1.1	2 1.0	6 2.0	5 2.0	3 1.3	4 1.4	4 1.9
Billboard	6 1.2 %	1 0.7	5 1.4	1 0.5	5 1.7	6 2.4	0	2 0.7	4 1.9
In School	6 1.2	2 1.5	4 1.1	1 0.5	5 1.7	6 2.4	0	0	6 2.9
Work For City/County /Government	6 1.2 %		5 1.4	3 1.6	3 1.0				2 1.0
Signs/Road Signs	3 0.6%	0.7	2 0.6	0	3 1.0	2 0.8	1 0.4	1 0.4	2 1.0
Flood Insurance	3 0.6%	0	3 0.9	0	3 1.0	2 0.8	1 0.4	1 0.4	2 1.0
Told About Flood Zones	3 0.6%	0.7	2 0.6	0	3 1.0	2 0.8	1 0.4	1 0.4	2 1.0
TV Ad/Commercial	2 0.4%	0	2 0.6	1 0.5	1 0.3	2 0.8	0	0	2 1.0

Continued...

(Table Continued)

Public Service Announcements	2 0.4%	0	2 0.6	1 0.5	0.3	0.8	0	0	2 1.0
Reading	2 0.4%	1 0.7	0.3	0	2 0.7	1 0.4	1 0.4	2 0.7	0
All Other Single Mentions	6 1.2\$	1 0.7	5 1.4	4 2.1	2 0.7	3 1.2	3 1.3	4 1.4	2 1.0
TOTAL RESPONSES BASE=NET RESPONDENTS	578 118.7%	160 117.6	418 119.1	222 115.0	356 121.1	306 121.9	271 115.3	323 116.2	255 122.0
NET RESPONDENTS	487	136	351	193	294	251	235	278	209

Table 4b

HOW LEARN ABOUT DANGERS OF FLASH FLOODING IN CLARK COUNTY (UNAIDED - AMONG ALL WHO ARE AWARE OF DANGERS OF FLOODING)

		QUADRA	NT OF V		SPECIFIC AREAS			
TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC		SUMMER LIN
	65 62.5	65 58.6	122 63.5	44 64.7	8 66.7	20 57.1	18 58.1	16 69.6
68 14.0%	13 12.5	16 14.4	26 13.5	13 19.1	0	6 17.1	5 16.1	6 26.1
55 11.3%	17 16.3	9 8.1	16 8.3	12 17.6	1 8.3	5 14.3	7 22.6	0
46 9.4 %	8 7.7	17 15.3	16 8.3	2 2.9	3 25.0	3 8.6	1 3.2	2 8.7
31 6.4%	4 3.8	12 10.8	12 6.3	1 1.5	2 16.7	3 8.6	1 3.2	5 21.7
16 3.3	4 3.8	0	10 5.2	2 2.9	0	1 2.9	1 3.2	0
11 2.3%	3 2.9	4 3.6	3 1.6	0	1 8.3	3 8.6	0	0
8 1.6%	3 2.9	5 4.5	0	0	0	3 8.6	0	1 4.3
6 1.2	0	1 0.9	3 1.6	2 2.9	0	0	2 6.5	0
6 1.2%	1.0	0	4 2.1	1 1.5	0	1 2.9	1 3.2	0
6 1.2	2 1.9	1 0.9	3 1.6	0	0	0	1 3.2	0
3 0.6%	0	0	2 1.0	1 1.5	0	0	1 3.2	0
3 0.6%	0	0	2 1.0	1 1.5	0	0	1 3.2	0
3 0.6%	0	1 0.9	1 0.5	1 1.5	0	0	0	0
2 0.4}	0	0	2 1.0	0	0	0	1 3.2	0
	304 62.4% 68 14.0% 55 11.3% 46 9.4% 31 6.4% 16 3.3% 11 2.3% 6 1.2% 6 1.2% 6 1.2% 3 0.6%	TOTAL EAST 304 65 62.4\$ 62.5 68 13 14.0\$ 12.5 55 17 11.3\$ 16.3 46 8 9.4\$ 7.7 31 4 6.4\$ 3.8 16 4 3.3\$ 3.8 11 3 2.3\$ 2.9 8 3 1.6\$ 2.9 6 0 1.2\$ 1.0 6 2 1.2\$ 1.0 0.6\$ 3 0.6\$ 0 0.6\$ 3 0.6\$ 2	NORTH NORTH TOTAL EAST WEST 304 65 65 62.4\$ 62.5 58.6 68 13 16 14.0\$ 12.5 14.4 55 17 9 11.3\$ 16.3 8.1 46 8 17 9.4\$ 7.7 15.3 31 4 12 6.4\$ 3.8 10.8 16 4 0 3.3\$ 3.8 11 3 4 2.3\$ 2.9 3.6 8 3 5 1.6\$ 2.9 4.5 6 0 1 1.2\$ 0.9 6 1 0 1.2\$ 0.9 6 1 0 1.2\$ 0.9 3 0 0 0.6\$ 3 0 0 0.6\$ 3 0 0 0.6\$ 3 0 0 0.6\$ 3 0 0 0.6\$ 3 0 0 0.6\$	NORTH NORTH EAST 304 65 65 122 62.4\$ 62.5 58.6 63.5 68 13 16 26 14.0\$ 12.5 14.4 13.5 55 17 9 16 11.3\$ 16.3 8.1 8.3 46 8 17 16 9.4\$ 7.7 15.3 8.3 31 4 12 12 6.4\$ 3.8 10.8 6.3 16 4 0 10 3.3\$ 3.8 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 4 3 3 5.2 11 3 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	TOTAL EAST WEST EAST WEST 304 65 65 122 44 62.4 62.5 58.6 63.5 64.7 68 13 16 26 13 14.0 13.5 19.1 55 17 9 16 12 11.3 16.3 8.1 8.3 17.6 46 8 17 16 2 9.4 7.7 15.3 8.3 2.9 31 4 12 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NORTH NORTH SOUTH SOUTH OUTTOTAL EAST WEST EAST WEST LYING	NORTH NORTH SOUTH SOUTH OUT HISTOTAL EAST WEST EAST WEST LYING PANIC	NORTH NORTH SOUTH SOUTH SOUTH SOUTH LYING PANIC VALLEY

Continued...

(Table Continued)

Public Service Announcements	2 0.4%	0	0	2 1.0	0	0	0	1 3.2	0
Reading	2 0.4%	0	1 0.9	0	1 1.5	0	0	0	0
All Other Single Mentions	6 1.2 %	3 2.9	2 1.8	1 0.5	0	0	1 2.9	0	0
TOTAL RESPONSES BASE=NET RESPONDENTS	578 5 118.7%	123 118.3	134 120.7	225 117.2	81 119.1	15 125.0	46 131.4	41 132.3	30 130.4
NET RESPONDENTS	487	104	111	192	68	12	35	31	23

Table 5a
WHETHER HEARD OR READ ABOUT FLASH FLOODING DANGERS
FROM SPECIFIED SOURCES

(AMONG THOSE AWARE OF FLASH FLOODING)

		YEARS LIVED GENDER OF IN CLARK CO RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD			
	TOTAL	5 YRS. & LESS	6 YRS. & More	MALE	FEMALE	50 YRS		1 OR 2	
TV News	472 96.98					247 98.4	224 →95.3	268 96.4	_
TV Advertising	365 74.9%	97 71.3	268 76.4	141 73.1		201 80.1	163 →69.4	203 73.0	
Newspaper or Magazine Story			264 75.2	137 71.0			181 77.0	209 75.2	
Radio News	317 65.1%		225 64.1	124 64.2			131 →55.7		143 68.4
Newspaper or Magazine Ad	259 53.2%	63 46.3	196 ← 55.8						124 ← 59.3
Radio Advertising	247 50.7%					156 62.2	90 → 38.3	125 45.0	122 [- 58.4
Friends or Relatives	227 46.6%	67 49.3	160 45.6	83 43.0		145 57.8	82 →34.9	116 41.74	111 -53.1
Billboard	192 39.4%	51 37.5	141 40.2	82 42.5			55 →23.4		93 44.5
Brochure	98 20.1%	14 10.3	84 —23.9		50 → 17.0		50 21.3		48 23.0
Children	78 16.0%		62 ← 17.7		46 15.6		21 >8.9	24 8.6	54 -25.8
Bus Stop Shelter Ad	60 12.3		46 13.1		36 12.2	37 14.7	23 →9.8	33 11.9	27 12.9
TOTAL RESPONDENTS BASE=NET RESPONDENTS		100.0		100.0		100.0		100.0	

NOTE:

For the Total Sample, each percentage is significantly higher (at the 95% level of confidence) than the percentages below it - except for the differences between TV Advertising and Newspaper or Magazine Story, Newspaper or Magazine Ad and Radio Advertising, and Radio Advertising and Family or Relatives.

Arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 5b

WHETHER HEARD OR READ ABOUT FLASH FLOODING DANGERS FROM SPECIFIED SOURCES (AMONG THOSE AWARE OF FLASH FLOODING)

QUADRANT OF VALLEY SPECIFIC AREAS NORTH NORTH SOUTH SOUTH OUT-HIS- GREEN SUMMER TOTAL EAST EAST WEST LYING PANIC VALLEY TV News 472 103 21 106 184 68 11 30 35 96.98 99.0 95.5 95.8 100.0 91.7 100.0 96.8 91.3 7 TV Advertising 365 74 86 143 55 24 13 74.98 71.2 77.5 74.5 80.9 58.3 77.1 77.4 56.5 Newspaper or 363 83 76 149 47 26 8 32 18 Magazine Story 74.5% 79.8 68.5 77.6 69.1 66.7 91.4 83.9 78.3 Radio News 122 317 69 77 43 6 17 63.5 65.1% 66.3 69.4 63.2 50.0 71.4 74.2 73.9 Newspaper or 259 59 55 103 34 8 22 11 11 Magazine Ad $62.9 \longrightarrow 35.5$ 53.28 56.7 49.5 53.6 50.0 66.7 Radio Advertising 247 59 57 95 33 3 21 17 10 50.7 56.7 51.4 49.5 48.5 25.0 60.0 54.8 43.5 Friends or Relatives 227 56 39 97 31 46.6% 53.8 35.1 50.5 45.6 33.3 48.6 61.3 34.8 Billboard 192 36 48 70 35 9 3 14 39.4% 36.5 51.5 25.0 34.6 43.2 25.7**←4**5.2 Ł 98 Brochure 21 17 42 17 1 5 20.1% 20.2 15.3 21.9 25.0 8.3 14.3 29.0 13.0 Children 78 16 12 36 13 1 16.0% 15.4 10.8 18.8 19.1 8.3 14.3 12.9 15 Bus Stop Shelter Ad 60 13 21 10 1 2 12.3 12.5 13.5 10.9 14.7 8.3 20.0 22.6 8.7 TOTAL RESPONSES 487 104 111 192 68 12 35 31 BASE=NET RESPONDENTS 100.0% 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0

NOTE:

For the Total Sample, each percentage is significantly higher (at the 95% level of confidence) than the percentages below it - except for those noted on the previous table.

Arrows indicate differences between sub-samples which were found to be statistically significant at the 95 % level of confidence. Significance not calculated for samples below 30 respondents.

Table 6a
ANY OTHER WAYS HEARD OR SAW INFORMATION ABOUT FLASH FLOODING

		YEARS LIVED IN CLARK CO		GENDER OF RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL		6 YRS.			UNDER 50 YRS			3 OR More
Word of Mouth/ Talking to People	12 2.4%	4 2.8	8 2.2	5 2.5	7 2.4	7 2.7	5 2.1	8 2.8	
Through School/ Classes	3 0.6%	1 0.7	2 0.6	1 0.5	2 0.7	1 0.4	2 0.8	2 0.7	
Online/Internet	3 0.6%	1 0.7	2 0.6	1 0.5	2 0.7	0	3 1.2	2 0.7	
Posted Signs on Road	2 0.4%				0	2 0.8	0		1 0.5
Girl Scouts	1 0.2%		0	0	1 0.3		1 0.4		1 0.5
Red Rock Canyon Tour	1 0.2%		0	0		0	1 0.4	0	1 0.5
Weather Channel	1 0.2%	-	1 0.3	0	1 0.3	0	1 0.4		0
Poster at Work	0.28	0	1 0.3	0	1 0.3			0	1 0.5
Parents Taught Me	1 0.2%	0	0.3	1 0.5	0	0.4	0	0.3	0
BASE=ALL RESPONDENTS	25 5.0%	6.4	16 4.5	10 4.9	15 5.1	12 4.7	13 5.3	15 5.2	10 4.7
NET RESPONDENTS ALL RESPONDENTS	25 500	9		10	15	12	13	15	10

Table 6b

ANY OTHER WAYS HEARD OR SAW INFORMATION ABOUT FLASH FLOODING

*		QUADRANT OF VALLEY					SPECIFIC AREAS		
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUNNER LIN
Word of Mouth/ Talking to People	12	4 3.8	0	6 3.1	1 1.4	1 6.7	2 5.6	1 3.1	0
Through School/ Classes	3 0.6	0	1 0.9	2 1.0	0	0	0	0	0
Online/Internet	3 0.6%	0	1 0.9	0	2 2.9	0	0	0	0
Posted Signs on Road	2 0.4%	0	0	2 1.0	0	0	0	1 3.1	0
Girl Scouts	1 0.2%	0	0	1 0.5	0	0	0	0	0
Red Rock Canyon Tour	1 0.2	0	1 0.9	0	0	0	0	0	0
Weather Channel	0.2	0	1 0.9	0	0	0	0	0	0
Poster at Work	0.28	1 0.9	0	0	0	0	0	0	0
Parents Taught Ne	1 0.2%	0	1 0.9	0	0	0	0	0	0
TOTAL RESPONSES BASE=ALL RESPONDENTS	25 5.0%	5 4.7	5 4.4	11 5.6	3 4.3	6.7	2 5.6	2 6.3	0
NET RESPONDENTS ALL RESPONDENTS	25 500	5 106	5 114	11 195	3 70	1 15	2 36	2 32	0 23

Table 7a

RECALL JULY 8TH FLASH PLOODING

		YEARS LIVED IN CLARK CO			GENDER OF RESPONDENT		AGE OF RESPONDENT		ER IN EHOLD
	TOTAL		6 YRS. & MORE			UNDER 50 YRS	50 & OLDER		3 OR NORE
Yes	477 95.4%	131 92.9	346 96.4	194 95.6	283 95.3			271 94.1	206 ← 97.2
No	23 4.6%	10 7.1		9 4.4		11 4.3		17 5.9	
TOTAL RESPONSES BASE=NET RESPONDENTS	500 100.0\$	141 100.0	359 100.0	203	297 100.0		243 100.0	288 100.0	212 100.0

Table 7b

RECALL JULY 8TH FLASH FLOODING

			QUADRA	NT OF V		SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING		GREEN VALLEY	SUMMER LIN	
Yes	477 95.48	105 99.1	107 93.9	185 94.9	67 95.7	13 86.7	36 100.0		22 95.7	
Но	23 4.6%	0.9			3 4.3		0	1 3.1	1 4.3	
TOTAL RESPONSES BASE=NET RESPONDENTS	500 100.0	106 100.0	114 100.0	195 100.0	70 100.0	15 100.0	36 100.0		23 100.0	

Table 8a

WERE YOU AFFECTED IN ANY WAY BY THAT FLOODING (AMONG THOSE RECALLING THE JULY 8TH FLOODING)

			YEARS LIVED IN CLARK CO		GENDER OF RESPONDENT		AGE OF RESPONDENT		ER IN CHOLD
	TOTAL	5 YRS. & LESS		NALE	FENALE	UNDER 50 YRS		1 OR 2	3 OR MORE
Yes	140 29.4%	40 30.5	100 28.9	54 27.8	86 30.4		49 →21.2	_	64 31.1
No	337 70.6%	91 69.5	246 71.1	140 72.2			182 ← 78.8		142 68.9
TOTAL RESPONSES BASE=NET RESPONDENT	477 S 100.0	131 100.0	346 100.0	194 100.0	283 100.0	245 100.0	231 100.0	271 100.0	206 100.0

Table 8b

WERE YOU AFFECTED IN ANY WAY BY THAT FLOODING (AMONG THOSE RECALLING THE JULY 8TH FLOODING)

			QUADRA	INT OF V		SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH	OUT- LYING		GREEN VALLEY	SUMMER LIN	
Yes	140 29.4%	35 33.3	28 26.2	55 29.7	21 31.3	1 7.7			7 31.8	
No	337 70.6%	70 66.7	79 73.8	130 70.3	46 68.7	12 92.3	24 66.7		15 68.2	
TOTAL RESPONSES BASE=NET RESPONDENT	477 S 100.0	105 100.0	107 100.0	185 100.0		13 100.0	36 100.0		22 100.0	

Table 9a
HOW AFFECTED BY THAT FLOODING

			LIVED ARK CO		ER OF ONDENT	AGE RESPO	OF ONDENT	NUMBE House	
	TOTAL		6 YRS.		FENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR MORE
Driving Delay/ Getting Around	44	14	30 30.0			27 29.7		23	
·									
Car/Truck Damage	21 15.0%			7 13.0		14 15.4		14 18.4	
Home Water Damage	20 14.3%	6 15.0	14 14.0	9 16.7					9 14.1
Couldn't Get Home	14 10.0%	7 17.5	7 7.0	3 5.6					8 12.5
Couldn't Get Out Of Home	12 8.6%	3 7.5	9 9.0	4 7.4					6 9.4
Couldn't Get To Work	10 7.1%	3 7.5	7 7.0	5 9.3					3 4.7
Our Street Flooded	8 5.7%		5 5.0	3 5.6	5 5.8		2 4.1	3 3.9	5 7.8
Trapped In Car	4 2.9		3 3.0	1 1.9	3 3.5		2 4.1	4 5.3	0
Getting Children From School	3 2.1	1 2.5	2 2.0	2 3.7			1 2.0		1 1.6
Waded In Water To Cross Street			3 3.0		1 1.2		3 6.1		1 1.6
Office/Store Lost Business	2 1.4%	0	2 2.0	0	2.3		0	1.3	1 1.6
Property Owned Flooded	2 1.4%	1 2.5	1 1.0	1 1.9	1 1.2	1.1	1 2.0	1 1.3	1 1.6
Flooded At Work	2 1.48	1 2.5	1 1.0	0	2 2.3	2 2.2	0	0	2 3.1
All Other Single Mentions	12 8.6%	4 10.0	8 8.0	2 3.7	10 11.6	9 9.9	3 6.1	5 6.6	7 10.9

Continued...

(Table Continued)

TOTAL RESPONSES	157	48	109	59	98	104	53	85	72
BASE=NET RESPONDENTS	112.18	120.0	109.0	109.3	114.0	114.3	108.2	111.8	112.5
NET RESPONDENTS	140	40	100	54	86	91	49	76	64

Table 9b
HOW AFFECTED BY THAT FLOODING

			QUADRA	NT OF V		SPECIFIC AREAS			
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Driving Delay/ Getting Around	44 31.4 %	10 28.6	8 28.6	16 29.1		0	4 33.3		
Car/Truck Damage	21 15.0	11 31.4	4 14.3	5 9.1		0	4 33.3		0
Home Water Damage	20 14.3	5 14.3	4 14.3	6 10.9		0	3 25.0	0	1 14.3
Couldn't Get Home	14 10.0\$	1 2.9	1 3.6	9 16.4	3 14.3	0	0	1 11.1	0
Couldn't Get Out Of Home	12 8.6%	4 11.4	2 7.1	6 10.9	0	0	1 8.3		1 14.3
Couldn't Get To Work	10 7.1%	4 11.4	1 3.6	3 5.5	2 9.5	0	1 8.3	_	0
Our Street Flooded	8 5.7 %	2 5.7	7.1	4 7.3	0	0	0	0	0
Trapped In Car	4 2.98	2 5.7	0	2 3.6	0	0	0	1 11.1	0
Getting Children From School	3 2.1%	1 2.9	0	2 3.6	0	0	0	0	0
Waded In Water To Cross Street	3 2.18	0	1 3.6	1.8	1 4.8	0	0	0	1 14.3
Office/Store Lost Business	2 1.48	0	1 3.6	0	1 4.8	0	0	0	0
Property Owned Flooded	2 1.4%	0	0	2 3.6	0	0	0	0	0
Flooded At Work	2 1.48	1 2.9	1 3.6	0	0	0	0	0	1 14.3
All Other Single Mentions	12 8.6%	2 5.7	5 17.9	3 5.5	1 4.8	100.0	2 16.7	2 22.2	2 28.6

Continued...

(Table Continued)

TOTAL RESPONSES	157	43	30	59	24	1	15	9	7
BASE=NET RESPONDENTS									100.0
NET RESPONDENTS	140	35	28	55		1		a	7
NET VENLONDENTS	140	22	20	99	21		12	7	,

Table 10a RESPONDENT GENDER

		YEARS LIVED IN CLARK CO		GENDER OF RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL	5 YRS. & LESS		NALE	FEMALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR MORE
Male	203 40.6%	48 34.0	155 (43.2	203	0	102 39.8	100 41.2	130 45.1	73 →34.4
Female	297 59.4%	93 66.0	204 →56.8	0	297 100.0		143 58.8	158 54.9	139 ← 65.6
TOTAL RESPONSES BASE=NET RESPONDENTS	500 100.0%	141	359 100.0	203			243 100.0	288	212

Table 10b
RESPONDENT GENDER

***************************************	-		QUADRA	NT OF V		SPECIFIC AREAS			
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUNNER LIN
Male	203	48	40	83	26	6	15	13	8
	40.6	45.3	35.1	42.6	37.1	40.0	41.7	40.6	34.8
Female	297	58	74	112	44	9	21	19	15
	59.4	54.7	64.9	57.4	62.9	60.0	58.3	59.4	65.2
TOTAL RESPONSES BASE=NET RESPONDENTS	500	106	114	195	70	15	36	32	23
	5 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Table 11a

RESPONDENT IS MALE OR FEMALE HEAD OF HOUSEHOLD OR OTHER HOUSEHOLD MEMBER

		YEARS LIVED IN CLARK CO			GENDER OF RESPONDENT		E OF ONDENT	NUMBER IN HOUSEHOLD		
	TOTAL	5 YRS. & LESS		MALE	FEMALE	UNDER 50 YRS		1 OR 2	3 OR MORE	
Head of Household	464 92.8%	129 91.5	335 93.3	194 95.6	270 → 90.9	226 88.3	237 97.5	282 97.9	182 →85.8	
Other Household Member	36 7.2%	12 8.5	24 6.7		27 ← 9.1	30 11.7	6 → 2.5	2.1	30 ←14.2	
TOTAL RESPONSES BASE=NET RESPONDENTS	500 100.0%	141 100.0	359 100.0	203 100.0	297 100.0	256 100.0	243 100.0	288 100.0	212	

 ${\tt Table~11b} \\ {\tt RESPONDENT~IS~NALE~OR~FENALE~HEAD~OF~HOUSEHOLD~OR~OTHER~HOUSEHOLD~NENBER} \\$

***********			QUADRA	NT OF V	*****	SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN	
Head of Household	464	97	103	183	69	12	34	31	21	
	92.8	91.5	90.4	93.8	98.6	80.0	94.4	96.9	91.3	
Other Household	36	9	11	12	1		2	1	2	
Member	7.2%	8.5	9.6	6.2	1.4		5.6	3.1	8.7	
TOTAL RESPONSES BASE=NET RESPONDENTS	500	106	114	195	70	15	36	32	23	
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

Table 12a

AGE OF RESPONDENT

		IN CL	ARK CO	RESP	ONDENT	AGI RESPO	ONDENT	Hous	CLIOHE
		5 YRS. & LESS	& MORE	MALE	FEMALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
(19) 18 to 20		6	9	6 3.0	9 3.0	15 5.9	0	6	9
(25) 21 to 29	45 9.0%	22 15.6	23 6.4	14 6.9	31 10.4	45 17.6	0	22 7.6	23 10.8
(35) 30 to 39	83 16.6%								64 30.2
(45) 40 to 49	113 22.6%	36 25.5	77 21.4	45 22.2	68 22.9	113 44.1	0	43 14.9	70 33.0
(55) 50 to 59		28 19.9		32 15.8	57 19.2	0	89 36.6	62 21.5	
(62) 60 to 64	37 7.4%	7 5.0	30 8.4	18 8.9	19 6.4	0	37 15.2	27 9.4	10 4.7
(70) 65 or Older						0		109 37.8	
Refused	0.2%		0.3	0.5		0	0		0.5
TOTAL RESPONSES BASE=NET RESPONDENT	500	141	359	203	297			288	212
MEDIAN T-Value	49.42		4.27			38.19 -3		1	

Table 12b

AGE OF RESPONDENT

				QUADRA	NT OF		SPE	CIFIC A	reas 	
		TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING			
(19)	18 to 20		3 2.8				0	0	0	0
(25)	21 to 29	45 9.0%	4 3.8	8 7.0	19 9.7	12 17.1	2 13.3	3 8.3	8 25.0	1 4.3
(35)	30 to 39	83 16.68				8 11.4				
(45)	40 to 49	113 22.6			40 20.5	18 25.7	2 13.3	9 25.0	3 9.4	1 4.3
(55)	50 to 59	89 17.8%				15 21.4				
(62)	60 to 64	37 7.4 %	9 8.5	5 4.4	18 9.2	5 7.1	0	2 5.6	2 6.3	2 8.7
(70)	65 or Older	117 23.4 %			54 27.7		5 33.3			
Refus		1 0.2				1 1.4	0	0	0	0
	RESPONSES NET RESPONDENT		106							23 100.0
	N ue	49.42				48.06 1.39				58.75

Table 13a
YEARS LIVED IN CLARK COUNTY

			ARK CO	RESP	ONDENT	AGI RESPO	ONDENT	HOUS	EHOLD
	TOTAL	5 YRS. & LESS	& MORE	MALE	FEMALE	UNDER 50 YRS	OLDER	1 OR 2	
(1) 2 Years or Less	51	51	0	18	33		20	33	18
(4) 3 to 5 Years	90 18.0%	90 63.8	0	30 14.8	60 20.2	57 22.3	33 13.6	50 17.4	40 18.9
(8) 6 to 10 Years	114 22.8%	0	114 31.8	54 26.6	60 20.2	56 21.9	58 23.9	60 20.8	54 25.5
(13) 11 to 15 Years	53 10.6	0	53 14.8	24 11.8	29 9.8	28 10.9	25 10.3	35 12.2	18 8.5
(18) 16 to 20 Years	53 10.6%	0	53 14.8	24 11.8	29 9.8	29 11.3	23 9.5	29 10.1	24 11.3
(25) 21 to 30 Years	72 14.4 %	0	72 20.1	32 15.8	40 13.5	33 12.9	39 16.0	39 13.5	33 15.6
(35) 31 or More Years	13.4%		18.7	10.3	15.5	8.6	18.5	14.6	11.8
TOTAL RESPONSES BASE=NET RESPONDENTS	500 100.0\$	141	359	203	297	256	243	288	212
MEDIAN T-Value	9.82					-			

Table 13b
YEARS LIVED IN CLARK COUNTY

			QUADRA	ANT OF		SPECIFIC AREA			
		EAST	WEST	EAST	SOUTH WEST	LYING	PANIC	VALLEY	LIN
(1) 2 Years or Less		5	12	22		2	1	5	1
(4) 3 to 5 Years	90 18.0%	18 17.0	20 17.5	31 15.9	18 25.7	3 20.0	5 13.9	7 21.9	8 34.8
(8) 6 to 10 Years	114 22.8\$	25 23.6	34 29.8	36 18.5	17 24.3	2 13.3	8 22.2	9 28.1	9 39.1
(13) 11 to 15 Years					4 5.7				
(18) 16 to 20 Years	53 10.6	14 13.2	5 4.4	24 12.3	9 12.9	6.7	3 8.3	2 6.3	0
(25) 21 to 30 Years	72 14.4 %	13 12.3	17 14.9	32 16.4	9 12.9	1 6.7	5 13.9	4 12.5	2 8.7
(35) 31 or More Years	67 13.4%	19 17.9	16 14.0	26 13.3	3 4.3	3 20.0	10 27.8	2 6.3	2 8.7
TOTAL RESPONSES BASE=NET RESPONDENTS	500 .	106	114	195	70	15	36	32	23
MEDIAN T-Value	9.82	12.58	8.94 1.34 -	12.27 0.79	7.65 2.89	11.33	15.50	7.78 2.86	7.11

Table 14a

NUMBER OF PEOPLE LIVING IN HOUSEHOLD

					AGI RESPO			
	TOTAL	6 YRS. & MORE			UNDER 50 YRS		1 OR 2	
(1)					23 9.0			
(2)	189 37.8%				67 26.2			0
(3)					60 23.4			84 39.6
(4)					57 22.3			68 32.1
(5)	35 7.0%				27 10.5		0	35 16.5
(7) 6 or More	25 5.0%				22 8.6			25 11.8
TOTAL RESPONSES BASE=NET RESPONDENTS	100.0%							212 100.0
MEDIAN T-Value			•	-2.45	3.13	1.00		

Table 14b

NUMBER OF PEOPLE LIVING IN HOUSEHOLD

			QUADRA	NT OF V				reas 	
	TOTAL	NORTH EAST			SOUTH WEST				
(1)	99 19.88	19 17.9							
(2)	189 37.8%	41 38.7							
(3)	84 16.8\$	17 16.0	18 15.8	40 20.5	9 12.9	0	3 8.3	6 18.8	4 17.4
(4)	68 13.6 %	14 13.2	17 14.9	23 11.8	12 17.1	2 13.3	7 19.4	3 9.4	2 8.7
(5)	35 7.0%	9 8.5	7 6.1	14 7.2	5 7.1	0	5 13.9	3 9.4	1 4.3
(7) 6 or More	25 5.0%	6 5.7	9 7.9	5 2.6	3 4.3	2 13.3	3 8.3	0	2 8.7
TOTAL RESPONSES BASE=NET RESPONDEN	TS 100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
MEDIAN T-Value		2.33	2.36	2.28		2.00	2.50	2.26 1.85	

Table 15a

HOUSEHOLD COMPOSITION BY AGE GROUP
(DOES NOT INCLUDE SINGLE PERSON HOUSEHOLDS)

		YEARS LIVED GENDER OF IN CLARK CO RESPONDENT				NUMBER IN HOUSEHOLD			
•••••	TOTAL	5 YRS. & LESS				UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
Other Adult 18 Years or Older									211 99.5
Children Between 13 to 17 Years Old							—————————————————————————————————————	3 1.6	71 ← 33.5
Children Under 13 Years Old		37 31.1					→8.4		133 ← 62.7
TOTAL RESPONSES BASE=NET RESPONDENTS				156 100.0		233 100.0	167 100.0	189 100.0	

Table 15b

HOUSEHOLD COMPOSITION BY AGE GROUP
(DOES NOT INCLUDE SINGLE PERSON HOUSEHOLDS)

			QUADRA	INT OF V		SPECIFIC AREAS			
	TOTAL	NORTH EAST	North West	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Other Adult 18 Years or Older	• • • •	86 98.9		151 98.1		11 100.0	32 100.0		18 100.0
Children Between 13 to 17 Years Old	74 18.5%	17 19.5			8 14.3			3 10.3	4 22.2
Children Under 13 Years Old	137 34.2%	31 35.6	32 34.4	51 33.1		3 27.3	15 46. 9	8 27.6	6 33.3
TOTAL RESPONSES BASE=NET RESPONDENTS	401 100.03	87 100.0	93 100.0	154 100.0	56 100.0	11 100.0	32 100.0	29 100.0	18 100.0

Table 16a

SUNNARY TABLE
AWARENESS OF DANGERS OF FLOODING BY OTHER HOUSEHOLD MEMBERS

		YEARS LIVED IN CLARK CO		GENDER OF RESPONDENT		AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL	5 YRS. 6		NALE	PENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR NORE
Other Adults 18 Year or Older	s 99.5 %	99.2	99.6	98.7	100.0	100.0	98.8	99.5	99.5
Children Between 13 to 17 Years Old	98.6%	100.0	98.1	95.8	100.0	100.0	92.3	100.0	98.6
Children Under 13 Years Old	74.5	75.7	74.0	77.6	72.7	73.8	78.6	75.0	74.4

NOTE: Respondent base varies by age group. See following tables for detailed responses.

There are no statistically significant differences in awareness levels between age group sub-samples at the 95% level of confidence.

Table 16b

SUMMARY TABLE AWARENESS OF DANGERS OF FLOODING BY OTHER HOUSEHOLD MEMBERS

			QUADRA	NT OF V		SPECIFIC AREAS			
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	green Valley	SUNNER LIN
Other Adults 18 Year or Older	rs 99.5%	100.0	98.9	98.3	100.0	100.0	100.0	100.0	100.0
Children Between 13 to 17 Years Old	98.6%	100.0	95.0	100.0	100.0	100.0	100.0	100.0	75.3
Children Under 13 Years Old	74.5%	77.4	68.8	76.5	75.0	66.7	93.3	62.5	50.0

 ${\tt NOTE:}\ \ {\tt Respondent}\ \ {\tt base}\ \ {\tt varies}\ \ {\tt by}\ \ {\tt age}\ \ {\tt group.}\ \ \ {\tt See}\ \ {\tt following}\ \ {\tt tables}\ \ {\tt for}\ \ {\tt detailed}$ responses.

There are no statistically significant differences in awareness levels between age group sub-samples at the 95% level of confidence.

Table 17a

AWARENESS OF DANGERS OF FLOODING BY OTHER ADULTS IN HOUSEHOLD 18 OR OLDER (AMONG HOUSEHOLDS WITH OTHER ADULTS 18 OR OLDER)

			YEARS LIVED IN CLARK CO		GENDER OF RESPONDENT		AGE OF RESPONDENT		ER IN EHOLD
	TOTAL	5 YRS.		MALE	FENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
Aware	394 99.5%	118 99.2	276 99.6	153 98.7		229 100.0	164 98.8	184 99.5	210 99.5
Not Aware	2 0.5%	0.8	1 0.4	2 1.3	0	0	2 1.2		1 0.5
TOTAL RESPONSES BASE=NET RESPONDENTS	396 100.0%	119 100.0	277 100.0	155 100.0	241 100.0	229 100.0	166 100.0	185 100.0	211 100.0

Table 17b

AWARENESS OF DANGERS OF FLOODING BY OTHER ADULTS IN HOUSEHOLD 18 OR OLDER (AMONG HOUSEHOLDS WITH OTHER ADULTS 18 OR OLDER)

			QUADRA	NT OF V		SPECIFIC AREAS				
	TOTAL	NORTH EAST	north West	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN	
λware	394 99.5%	86 100.0	91 98.9	150 99.3	56 100.0	11 100.0	32 100.0	29 100.0	18 100.0	
Not Aware	2 0.5%	0	1.1	1 0.7	0	0	0	0	0	
TOTAL RESPONSES BASE=NET RESPONDEN	396 TS 100.0\$	86 100.0	92 100.0	151 100.0	56 100.0	11 100.0	32 100.0	29 100.0	18	

Table 18a

AWARENESS OF DANGERS OF FLOODING BY CHILDREN IN HOUSEHOLD 13 TO 17 YEARS OLD

(AMONG HOUSEHOLDS WITH CHILDREN 13 TO 17 YEARS OLD)

*		YEARS LIVED IN CLARK CO			er of ondent	AGE OF RESPONDENT		NUMBER IN HOUSEHOLD	
	TOTAL		6 YRS.	MALE	PENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
Aware	73 98.6%	21 100.0	52 98.1	23 95.8		• -	12 92.3	-	70 98.6
Not Sure	1.48	0	1 1.9		_	0	1 7.7	0	1 1.4
TOTAL RESPONSES BASE=NET RESPONDENTS	74 100.0%	21 100.0	53 100.0	24 100.0	50 100.0	60 100.0	13 100.0	3 100.0	71 100.0

Table 18b

AWARENESS OF DANGERS OF FLOODING BY CHILDREN IN HOUSEHOLD 13 TO 17 YEARS OLD
(AMONG HOUSEHOLDS WITH CHILDREN 13 TO 17 YEARS OLD)

***************************************		QUADRANT OF VALLEY			SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Aware	73 98.6 \$	17 100.0	19 95.0	26 100.0	8 100.0	3	9	3 100.0	3 75.0
Not Sure	1 1.4	0	1 5.0	0	0	0	0	0	1 25.0
TOTAL RESPONSES BASE=NET RESPONDENTS	74 100.0	17 100.0	20 100.0	26 100.0	8 100.0	3	9	3 100.0	4 100.0

Table 19a

AWARENESS OF DANGERS OF FLOODING BY CHILDREN IN HOUSEHOLD UNDER 13 YEARS OLD
(AMONG HOUSEHOLDS WITH CHILDREN UNDER 13 YEARS OLD)

		YEARS IN CLA			ER OF ONDENT		OF ONDENT	NUMB! House	
	TOTAL	5 YRS. & LESS		NALE	PENALE	UNDER 50 YRS	50 & OLDER	1 OR 2	3 OR More
Aware	102 74.5%	28 75.7	74 74.0	38 77.6	64 72.7		11 78.6	3 75.0	99 74.4
Not Aware	27 19.7%	9 24.3	18 18.0	8 16.3		27 22.1	0	1 25.0	26 19.5
Not Sure	8 5.8%	_	_			5 4.1		0	8 6.0
TOTAL RESPONSES BASE=NET RESPONDENTS	137 100.0%	37 100.0	100 100.0	49 100.0			14 100.0	4 100.0	133 100.0

Table 19b

AWARENESS OF DANGERS OF FLOODING BY CHILDREN IN HOUSEHOLD UNDER 13 YEARS OLD

(AMONG HOUSEHOLDS WITH CHILDREN UNDER 13 YEARS OLD)

*****		QUADRANT OF VALLEY			SPECIFIC AREAS				
	TOTAL	NORTH EAST	NORTH WEST	SOUTH EAST	SOUTH WEST	OUT- LYING	HIS- PANIC	GREEN VALLEY	SUMMER LIN
Aware	102 74.5	24 77.4	22 68.8	39 76.5	15 75.0	2 66.7	14 93.3	5 62.5	3 50.0
Not Aware	27 19.7%	6 19.4	7 21.9		3 15.0		1 6.7		2 33.3
Not Sure	8 5.8 k	3.2	3 9.4		2 10.0	0	0	1 12.5	1 16.7
TOTAL RESPONSES BASE=NET RESPONDENTS	137 100.0	31 100.0	32 100.0	51 100.0	20 100.0	3 100.0	15 100.0	8 100.0	6 100.0

Table 20

COMPARISON BY UNAIDED AWARENESS

QUADRANT OF VALLEY

		NATURAL DISASTERS?		
	TOTAL	SAID FLOODS	DIDN'T SAY FLOODS	
North East Valley		87 21.3		
North West Valley		99 24.3		
South East Valley		159 39.0		
South West Valley		56 13.7		
Outlying Areas		7		
TOTAL RESPONSES BASE=NET RESPONDENTS				

Table 21

COMPARISON BY UNAIDED AWARENESS
SPECIFIC ZIP CODE AREAS

		NATURAL DISASTERS?		
	TOTAL	SAID FLOODS	DIDN'T SAY FLOODS	
Hispanic Zip Codes	36	30	6	
	39.6 %	39.0	42.9	
Green Valley	32	27	5	
Zip Codes	35.2	35.1	35.7	
Summerlin Zip Codes	23	20	3	
	25.3	26.0	21.4	
TOTAL RESPONSES	91	77	14	
BASE=NET RESPONDENTS	100.0 \$	100.0	100.0	

NOTE: Significance not calculated when one or more sub-samples being compared are below 30 respondents.

Table 22

COMPARISON BY UNAIDED AWARENESS
ZIP CODE OF RESPONDENT

NATURAL
DISASTERS?

		DISASTERS?		
***************************************	TOTAL	SAID FLOODS		
89005	9 1.8 \$	6	3.3	
89006	1 0.2\$	1 0.2	0	
89007	1 0.2%	1 0.2	0	
89012	4 0.8	4 1.0	0	
89014	26 5.2 %	22 5.4		
89015	47 9.4 %	40 9.8		
89019	2 0.4%	2 0.5	0	
89027	1 0.2	0	1 1.1	
89028	1 0.2	0	1.1	
89029	3 0.6	0	3 3.3	
89030	18 3.6%	16 3.9		
89031	16 3.2 %	13 3.2	3 3.3	
89032	6 1.2 	6 1.5	0	
89046	2 0.4 %	1 0.2	1 1.1	
89052	2 0.4%	1 0.2	1 1.1	

Continued...

89101		7· 1.7	
89102		7 1.7	2.2
89103		16 3.9	
89104		16 3.9	
89105	2 0.4%	1 0.2	1 1.1
89106	8 1.6 \$	7 1.7	1 1.1
89107	17 3.4%		0
89108	33 6.6 %	27 6.6	6 6.5
89109		5 1.2	2 2.2
89110		32 7.8	
89113		1 0.2	1.1
89115		11 2.7	
89117	18 3.6\$	16 3.9	2 2.2
89118	3 0.6 \$	3 0.7	0
89119	9 1.8%	8 2.0	1 1.1
89120	11 2.2 %	9 2.2	2 2.2
89121	31 6.2%	22 5.4	9 9.8
89122	13 2.6%	11 2.7	2 2.2

Continued...

(Table Continued)

89123	10 2.0\$	10 2.5	0
89124	1 0.2%	0	1 1.1
89128	12 2.4%	9 2.2	3 3.3
89129	7 1.48	6 1.5	
89130	11 2.2 \$	10 2.5	
89131	1 0.2\$	1 0.2	0
89134	10 2.0	10 2.5	0
89139	1 0.2	0	1 1.1
89140	1 0.2	1 0.2	0
89142	6 1.2	5 1.2	
89144	1 0.2%	1 0.2	0
89145	4 0.8\$	3 0.7	1 1.1
89146	4 0.8\$	3 0.7	
89147		10 2.5	
89149		2 0.5	
89156	2.0%	8 2.0	
TOTAL RESPONSES BASE=NET RESPONDENTS	100.0	408 100.0	92 100.0

Table 23

COMPARISON BY UNAIDED AWARENESS
RECALL JULY 8TH FLASH FLOODING

		NATU	JRAL		
		DISASTERS?			

			DIDN'T		
		SAID	SAY		
	TOTAL	FLOODS	FLOODS		
Yes	477	396	81		
	95.4%	97.1	→88.0		
No	23	12	11		
	4.6	2.9	←12.0		

TOTAL RESPONSES	500	408	92		
BASE=NET RESPONDENTS	100.0	100.0	100.0		

Table 24

COMPARISON BY UNAIDED AWARENESS
WERE YOU AFFECTED BY THAT PLOODING

		NATURAL DISASTERS?	
	TOTAL	SAID FLOODS	
Yes	140	128	12
les		32.3	
No	337	268	69
	70.6%	67.7	€ 85.2
TOTAL RESPONSES	477	396	81
BASE=NET RESPONDENTS	100.0	100.0	100.0

Table 25

COMPARISON BY UNAIDED AWARENESS
RESPONDENT GENDER

		NATURAL DISASTERS?	
		DIDH'T	
		SAID	Say
	TOTAL	FLOODS	FLOODS
Male	203	159	44
	40.6%	39.0	47.8
Female	297	249	48
	59.4%	61.0	52.2
MARIE BRADAVADA		400	^^
TOTAL RESPONSES	500	408	92
BASE=NET RESPONDENTS	100.08	100.0	100.0

Table 26

COMPARISON BY UNAIDED AWARENESS
AGE OF RESPONDENT

						JRAL STERS?
				TOTAL		DIDN'T SAY FLOODS
(19)	18	to 20		15 3.0	14 3.4	1.1
(25)	21	to 29		45 9.0	37 9.1	8 8.7
(35)	30	to 39		83 16.6%	74 18.1	9 → 9.8
(45)	40	to 49		113 22.6%	99 24.3	14 →15.2
(55)	50	to 59		89 17.8%	75 18.4	14 15.2
(62)	60	to 64		37 7.48	28 6.9	9 9.8
(70)	65 (or Olde	r	117 23.4%	80 19.6	
Refus	ed			1 0.2	1 0.2	
				500 100.0\$		
MEDIA T-Val				49.42	47.93	3.83

NOTE: Arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 27

COMPARISON BY UNAIDED AWARENESS
YEARS LIVED IN CLARK COUNTY

		NATURAL DISASTERS?	
	TOTAL	SAID FLOODS	
(1) 2 Years or Less			
(4) 3 to 5 Years	90 18.0	78 19.1	12 13.0
(8) 6 to 10 Years	114 22.8%	92 22.5	22 23.9
(13) 11 to 15 Years		47 11.5	
(18) 16 to 20 Years	53 10.6 %	46 11.3	7 7.6
(25) 21 to 30 Years		56 13.7	
(35) 31 or More Years		50 12.3	
TOTAL RESPONSES BASE=NET RESPONDENTS			
MEDIAN T-Value	9.82	9.78	10.50 1.24

NOTE: There are no statistically significant differences between sub-samples at the 95% level of confidence.

Table 28

COMPARISON BY UNAIDED AWARENESS
NUMBER OF PEOPLE LIVING IN HOUSEHOLD

		NATURAL DISASTERS?		
***************************************		SAID	DIDN'T SAY	
	TOTAL	FLOODS	ricous	
(1)	99	69		
(-/		16.9		
(2)	189	151	38	
. ,	37.8%	37.0	41.3	
(3)	84	77	7	
(-)		18.9		
(4)	68	58	10	
(•)		14.2		
(5)	35	31	4	
1-7		7.6		
(7) 6 or More	25	22	3	
(// 0 02020		5.4		
TOTAL RESPONSES	500	408	92	
BASE=NET RESPONDENTS	100.0	100.0	100.0	
MEDIAN	2.30	2.39	1.92	
T-Value			3.28	
		<u> </u>	^	

NOTE: Arrows indicate differences between sub-samples which were found to be statistically significant at the 95% level of confidence.

Table 29

COMPARISON BY UNAIDED AWARENESS HOUSEHOLD COMPOSITION BY AGE GROUP (DOES NOT INCLUDE SINGLE PERSON HH)

		NATURAL DISASTER?	
			DIDN'T
		SAID	SAY
	TOTAL	FLOODS	FLOODS
Other Adults 18 Years	396	335	61
or Older	98.88	98.8	98.4
Children Between	74	64	10
13 to 17 Years Old	18.5%	18.9	16.1
Children Under	137	122	15
13 Years Old	34.28	36.0	> 24.2
TOTAL RESPONSES	401	339	62
BASE=NET RESPONDENTS	100.0%	100.0	100.0

NOTE: Arrow indicates a difference between sub-samples which was found to be statistically significant at the 95% level of confidence.

Table 30

COMPARISON BY UNAIDED AWARENESS SUMMARY TABLE AWARENESS OF DANGERS OF FLOODING BY OTHER HOUSEHOLD NEMBERS

			TURAL ASTER?	
	TOTAL	SAID	DIDN'T SAY FLOODS	
Other Adults 18 Years or Older	99.58	100.0	96.7	
Children Between 13 to 17 Years Old	98.6%	98.4	100.0	
Children Under 13 Years Old	74.5%	73.8	80.0	

NOTE: Respondent base varies by age group. See following tables for detailed responses.

There are no statistically significant differences in awareness levels between age group sub-samples at the 95% level of confidence.

Significance not calculated for samples below 30 respondents.

Table 31

COMPARISON BY UNAIDED AWARENESS
AWARENESS BY OTHER ADULTS IN HOUSEHOLD

		NATURAL DISASTERS?		
	TOTAL	SAID FLOODS	DIDN'T SAY FLOODS	
Aware	394 99.5%	335 100.0	59 96.7	
Not Aware	2 0.5	0	2 3.3	
TOTAL RESPONSES BASE=NET RESPONDENTS	396 100.0\$	335 100.0	61 100.0	

NOTE: There is no statistically significant difference between sub-samples at the 95% level of confidence.

Table 32

COMPARISON BY UNAIDED AWARENESS
AWARENESS BY CHILDREN 13 TO 17 YEARS OLD

		NATURAL DISASTERS?		
	TOTAL	SAID FLOODS	DIDN'T SAY FLOODS	
Aware	73 98.6%	63 98.4	10 100.0	
Not Sure	1 1.48	1.6	0	
TOTAL RESPONSES BASE=NET RESPONDENTS	74 100.0	64	10 100.0	

NOTE: Significance not calculated when one or more sub-samples being compared are below 30 respondents.

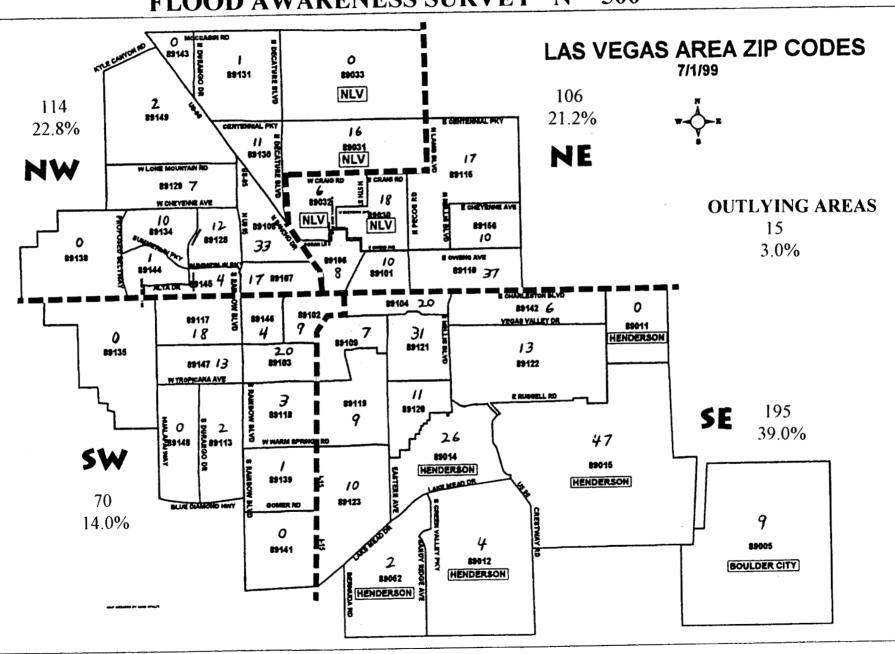
Table 33

COMPARISON BY UNAIDED AWARENESS
AWARENESS BY CHILDREN UNDER 13 YEARS OLD

		NATURAL		
		DISASTERS?		
			DIDN'T	
		SAID	SAY	
	TOTAL	FLOODS	FLOODS	
Aware	102	90	12	
	74.5%	73.8	80.0	
W. A. D	02	25	•	
Not Aware	27	25	2	
	19.78	20.5	13.3	
Not Sure	8	7	1	
	5.88	5.7	6.7	
TOTAL RESPONSES	137	122	15	
BASE=NET RESPONDENTS	100.0%	100.0	100.0	

NOTE: Significance not calculated when one or more sub-samples being compared are below 30 respondents.

VI. APPENDIX



CLARK COUNTY RESIDENTS SURVEY

EN	TER PHONE NUMBER FROM CALL LIST		
	llo, my name is and I'm calling on behalf of Clar could like to speak to either the male or female head of the ho		vices.
	NEITHER AVAILABLE) Are you 18 years or older and a usehold, or is anyone available who's 18 or older and a permanant		old? ATE)
A.	INDICATE: 1 HEAD OF HOUSEHOLD 2 OTHER HOUSEHOLD MEMBER		(1)
	e are conducting a survey among Clark County residents and vestions. (IF RESPONDENT ASKS HOW LONG IT WILL TAKE — SA		
B.	INDICATE RESPONDENT GENDER: 1 MALE 2 (PLEASE ASK GENDER IF YOU CAN'T TELL BY THE VOICE)	FEMALE	(2)
C.	I would like to verify your Zip Code. Is it (READ NUMBE)	R FROM CALL LIST)?	
	IF CORRECT, ENTER NUMBER IF NOT CORRECT, ENTER CORRECT NUMBER. 8	_9	(3) (4) (5)
D.	How long have you lived in Clark County? Years.		(6) (7)
1.	Can you name the types of natural disasters that can be a d County?	anger to residents of Clark	
		Anything else?	(8)
		Anything else?	(9)
		Anything else?	(10)
			(11)

2. Are you aware of the dangers of flash flooding here in Clark County?

3. How did you learn about the dangers of flash flooding in Clark County?

(14)

(15)

(16)

(17)

4. From the list I am going to read, please tell me - with a Yes or No - whether you heard or read about flash flood dangers from that source. (READ LIST)

	<u>YES</u>	<u>NO</u>	
BROCHURE	1	2	(18)
BUS STOP SHELTER AD	1	2	(19)
BILLBOARD	1	2	(20)
TV ADVERTISING	1	2	(21)
TV NEWS	1	2	(22)
RADIO ADVERTISING	1	2	(23)
RADIO NEWS	1	2	(24)
NEWSPAPER OR MAGAZINE AD	1	2	(25)
NEWSPAPER OR MAGAZINE STORY	1	2	(26)
CHILDREN TOLD YOU ABOUT IT	1	2	(27)
FRIENDS/RELATIVES TOLD YOU ABOUT IT	1	2	(28)

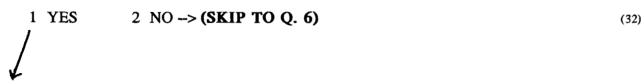
4a. Can you think of any other ways you heard or saw information about flash floods?

(29)

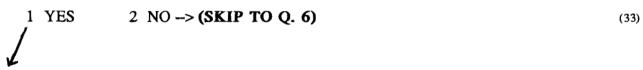
(30)

(31)

5. Do you recall the flash flooding we had last July 8th?



5a. Were you affected in any way by that flooding?



(34)

(37)

- 5b. In what ways were you affected by that flooding?
 - (35) (36)

6. Including yourself, how many people live in your household?

7.	Other than yourself, which of the following age grown household? (READ LIST)	ups are repr	resented in	your	
	(21222 2227)		<u>YES</u>	<u>NO</u>	
	ONE OR MORE CHILDREN LESS THAN 13 YEARS	OLD	1	2	(40)
	ONE OR MORE CHILDREN BETWEEN 13 TO 17 YE	ARS OLD	1	2	(41)
	ONE OR MORE ADULTS 18 YEARS OR OLDER		1	2	(42)
8.	(FOR EACH CATEGORY CIRCLED "YES" ABOV Do you believe that the other people in your househ are aware of the dangers of flash flooding?				
		AWARE	NOT <u>AWARE</u>	NOT <u>SURE</u>	
	LESS THAN 13 YEARS OLD	1	2	3	(43)
	13 TO 17 YEARS OLD	1	2	3	(44)
	18 YEARS OR OLDER	1	2	3	(45)
9.	One final question. Is your age (READ LIST)				
,	•				(46)
	1 18 TO 20 5 50 TO 59				(46)
	2 21 TO 29 6 60 TO 64				
	3 30 TO 39 7 65 OR OI	LDEK			(47)
	4 40 TO 49				(48)
Tha	nk you so much for your time. Good-bye.				(49)
DA'	TE: TIME INTERVIEW COM	MPLETED:		AM or	PM
	FFIRM THAT THE ABOVE INFORMATION IS ACCUR. SPONDENT'S STATEMENTS.	ATELY RE	CORDED FI	ROM THE	
INT	ERVIEWER'S SIGNATURE				

,

;