Table 1. Socioeconomic Indicators by Sample Strata, Whittier Narrows.

		Area				
	High-Impact	t Los Angeles	County			
A. Education % College degree or more	13.1	23.8				
% High school degree	42.4	44.3				
# of years completed	12.5	13.0				
<pre>% Trade or technical training</pre>	32.5	33.5				
3. Employment % Employed full-time	59.2	55.5				
<pre>% Employed part-time</pre>	7.3	12.8				
<pre>% of not employed ever employed</pre>	86.7	82.8				
Mean SEI	33.6	37.3				
C. <u>Income</u> Median household income	\$36,250	\$33,750				
% with Income >\$40,000	38.8	38.4				
# contributing to income*	2.0	1.7				
# ≥ 18 dependent on income*	2.2	1.9				
<pre># &lt; 18 dependent on income</pre>	0.9	0.7	2.6			
Per capita income within household	\$11,694	\$12,981				
t Female	57.1	53.1				
Mean age	44.9	43.7				
Married*	55.9	49.7				
Total N	191	499				

<sup>\* &</sup>lt;u>p</u> < .05 \*\* <u>p</u> < .001

Table 2. Socioeconomic Indicators by Sample Strata, Loma Prieta.

		Area	
	5-County	San Francisco/ Oakland	Santa Cruz
A. Education % College degree or more*	60.6	50.6	31.1
% High school degree	41.5	32.5	45.9
# of years completed	14.3	14.5	14.2
<pre>% Trade or technical training</pre>	36.8	45.8	45.9
<pre>B. Employment</pre>	56.1	60.2	52.5
<pre>% Employed part-time</pre>	12.0	9.6	18.9
<pre>% of not employed ever employed</pre>	89.5	92.3	100.0
Mean SEI	43.3	42.9	42.2
<u>C. Income</u> Median household income	\$37,500	\$27,500	\$37,500
% with Income >\$40,000	55.9	40.5	52.3
<pre># contributing to income*</pre>	1.8	1.5	1.8
# ≥ 18 dependent on income**	1.97	1.5	1.9 7
<pre># &lt; 18 dependent on income**</pre>	0.6	.5	0.5
Per capita income within household	\$15,000	\$16,208	\$15,625
% Female	56.1	59.0	52.5
Mean age	45.7	46.8	45.6
% Married*	51.0	20.5	45.9
Total N	451	83	122

<sup>\* &</sup>lt;u>p</u> < .05 \*\* <u>p</u> < .001

Table 3. Earthquake Experience and Impact by Sample Strata, Whittier Narrows.

	A	rea
Earthquake Experience	High-Impact	Los Angeles County
Mean Mercalli at home**	7.3	6.2
<pre># of prior earthquakes**</pre>	12.6	10.0
% with damage**	31.3	11.9
<pre>\$ estimate of damage**</pre>	\$1,111	\$162
% evacuated	4.7	2.2
# of hours evacuated*	5.0	0.7
% had others stay with the	m 4.6	3.2
<pre>% know families with substantial loss**</pre>	41.5	16.8
# of families known*	3.7	2.2
% know injured**	6.3	4.2
Total N	191	499

<sup>\* &</sup>lt;u>p</u> < .05 \*\* <u>p</u> < .001

Table 4. Earthquake Experience and Impact by Sample Strata, Loma Prieta.

		Area		
Earthquake Experience	5-County	San Francisco/ Oakland	Santa	Cruz
Mean Mercalli at home**	6.7	8.3		8.2
Mean Mercalli where R. was	<sup>1</sup> ** 6.7	7.3		7.9
<pre># of prior earthquakes**</pre>	20.4	14.6	:	27.9
% with damage**	32.2	33.7	(	56.4
<pre>\$ estimate of damage**</pre>	\$717	\$2,292	\$12,7	68
<pre>% evacuated**</pre>	17.5	16.9	4	42.6
# of hours evacuated*	7.3	65.6	-	73.7
% had others stay with the	m** 8.6	14.5	:	20.5
<pre>% know families with substantial loss**</pre>	41.9	34.9	•	74.6
% know injured**	10.0	9.6	:	22.1
# injured	0.2	0.2		0.6
Total N	451	83	12	22

<sup>\*</sup> p < .05 \*\* p < .001

 $<sup>^{1}</sup>$  Excludes 23 residents who were outside the 5-county area at the time of the earthquake.

Table 5. Identity of Person Reported Injured by Sample Strata Where the Respondent Lives, Whittier Narrows.

		Are	a	
Identity of	High-Impact Co			geles nty 499)
Injured Person	8	N	8	N
R reports no injuries	94.2	180	96.2	480
R reports injury to:				
Self	2.6	5	0.6	3
Other HH member	0	0	0.2	3 1
Relative	1.0	2	0.8	
Neighbor	2.6	2	0.4	2
Co-worker	0.5	1	1.0	5
Friend	1.0	2	1.2	6
Total injuries described:		12		21
by () respondents:		11		19
Rate of injury to R				
per 1,000	26		6	

 $<sup>\</sup>underline{p} = .03$ 

Table 6. How the Injury Occurred by Sample Strata Where Respondent Lives, Whittier Narrows.

	Area				
How Injury Occurred	High-Impact %	Los Angeles County %			
Objects fell	50.0	14.3			
Parts of building fell	25.0	9.5			
Building collapsed	0	4.8			
Power outage	0	9.5			
Behavior of person	8.0	23.8			
Fell during earthquake	16.7	9.5			
Mental	0	14.3			
Don't know	0	9.5			
No information	0	4.8			
Total N	12	21			

Table 7. Type of Injury Reported by Sample Strata Where Respondent Lives, Whittier Narrows.

	Area					
Type of Injury	High-Impact %	Los Angeles County %				
Death	0	4.8				
Broken bones	0	9.5				
Cuts, bruises	50.0	52.4				
Concussion	8.3	0				
Panic at time	0	4.8				
Post-quake emotional	0	4.8				
Heart attack	0	9.5				
All else	41.7	4.8				
Total N	12	21				

Table 8. Identity of Person Reported Injured by Sample Strata Where the Respondent Lives, Loma Prieta.

			Are	a		
			San Fra	ncisc	0/	
	5-Co	ınty	Oakl	and	Santa	Cruz
	(N =	(N = 451)		83)	(N =	122)
Identity of Injured Person	*	'n	*	N	*	N
R reports no injuries	90.0	406	90.0	75	77.9	95
R reports injury to:						
Self	4.7	3	0	0	9.3	4
Other HH member	3.1	2	0	0	14.0	6
Relative	4.7	3	14.3	2	9.3	4
Neighbor	1.6	1	0	0	9.3	4
Co-worker	34.4	22	14.3	2	11.6	5
Friend	43.8	28	71.4	10	34.9	15
Other	7.8	5	0	0	11.6	5
Total injuries described:		64		14		43
by () respondents:		45		8		27
Rate of injury to R						
per 1,000	6.7		0		32.8	

 $<sup>\</sup>underline{p} = .016$ 

Table 9. How the Injury Occurred by Sample Strata Where the Respondent Lives, Loma Prieta.

			<u> </u>			
			San Fra			_
		unty		and		
	•	451)	•	83)	.*	122)
How Injury Occurred	*	N	*	N	*	N
R reports no injuries	90.0	406	90.0	75	77.9	95
Reason R gives for injury:	<b>;</b>					
Objects fell	9.4	6	7.1	1	7.0	3
Parts of building fell	12.5	8	7.1	1	14.0	6
Glass/Windows/Doors Building/Freeway	4.7	3	0	0	14.0	6
collapsed	14.1	9	28.6	4	7.0	3
Earthquake caused fall, vehicle collision,	14.1	9	20.0	*	7.0	3
trapped, etc.	26.6	17	7.1	1	9.3	4
Other aspects of quake						
experience	3.1	2	50.0	7	2.3	1
Person ran/jumped/						
caught objects	3.1	2	0	0	7.0	3
Not reported	26.6	17	0	0	39.5	17
Total injuries described:		64		14		43
<pre>by () respondents:</pre>		45		8		27

p < .01

Table 10. How a Reported Injury Occurred by Who Was Injured, Loma Prieta.

		Person Rep	orted Injur	ed		
		Member or				
How Injured	Respondent %	Relative %	Co-Worker %	Other %		
Objects fell		4.5	10.3	9.5		
Glass from windows, doors, mirrors, etc.	14.3	13.6	3.4	6.3		
Parts of building fell		9.1	27.6	7.9		
Collapse of freeway/ building		4.5	17.2	15.9		
Behavior of individual	14.3	4.5		4.8		
Experience of being in earthquake		13.6		11.1		
Earthquake caused fall, trapped, or accident	42.9	13.6	17.2	17.5		
Not reported	28.6	36.4	24.1	27.0		
Total Injuries Reported	7	22	29	63		

 $<sup>2</sup>N = \underline{q}$ 

Table 11. Nature of the Injury Reported by Sample Strata Where the Respondent Lives, Loma Prieta.

			Area San Franc		/	
Nature of Injury	5-County (N = 451)		Oaklaı	Oakland (N = 83)		Cruz 122)
	`%	N	`*	Ň	<b>%</b>	N
R reports no injuries	90.0	406	90.0	75	77.9	95
Injury that R reports:				_		_
Death	15.6	10	35.7	5	9.3	4
Crushed	1.6	1	0	0	9.3	4
Paralysis	0	0	0	0	2.3	1
Amputation	1.6	1	0	0	2.3	1
Multiple severe	1.6	1	0	0	0	0
Internal	0	0	0	0	4.7	2
Concussion	0	0	0	0	4.7	2
Broken bones	9.4	6	7.1	1	2.3	1
Wrenched/Torn	6.3	4	0	0	7.0	3
Sprain	0	0	7.1	1	2.3	1
Minor head	3.1	2	0	0	0	0
Cuts/Bruises	45.3	29	0	0	41.9	18
Panic	1.6	1	0	0	0	0
Post-quake emotional	1.6	1	50.0	7	7.0	3
Not reported	12.5	8	0	0	7.0	3
Total injuries described:		64		14		43
by () respondents:		45		8		27

g = NS

Table 12. Type of Injury Reported by Who Was Injured, Loma Prieta.

	Person Reported Injured Other HH						
Type of Injury		Friend/					
	Respondent %	Relative %	Co-Worker %	Other &			
Emotional	1.00	13.6		14.3			
Cuts, bruises, etc. Wrenched/Concussions,	71.4	40.9	55.2	33.3			
etc.	14.3	13.6		7.9			
Broken bones		13.6	6.9	4.8			
Severe		9.1	17.2	6.3			
Death		9.1	13.8	20.6			
Not reported	14.3		6.9	12.7			
Total Injuries Reported	7	22	29	63			

 $\mathbf{g} = \mathbf{N}\mathbf{S}$ 

Table 13. Type of Injury Reported by How Injury Occurred, Loma Prieta

Type of Injury	Objects Fell %	Glass %	Parts of Bldg %	Structure Collapsed	Indiv.'s Behavior %	Quake Exper. %	Quake Caused Fall	Not Rep.
Emotional						100.0	0	5.9
Cuts, bruises, etc.	70.0	66.7	33.3	6.3	80.0	0	31.8	61.8
Wrenched/Concus- sions, etc.	10.0		7.9	6.3	20.0	0	18.2	ເນ ໝ ຜູ້ຜູ້
Severe	1		33.3	25.0			4.0	20.0
Death Not reported	10.0	33.3	6.7	6.29			18.2	ຸທຸ
Total Injuries Reported	10	ō	15	16	ഗ	10	22	34

D < .01

"Thinking back to your feelings and experiences during and immediately after the October 17, 1989 earthquake, which of the following best describes your overall feelings?" Table 14. Level of Fear Expressed by Sample Strata, Whittier Narrows and Loma Prieta.

	Whittier	ı		Loma Prieta	ja.
	L.A. High-Impact County %	L.A. County %	5-County	San Francisco/ Oakland %	Santa Cruz
Very frightened & upset	32.3	23.5	28.2	36.1	40.2
Somewhat frightened & upset	33.9	31.3	35.7	30.1	32.0
Not very frightened & upset	18.3	21.3	18.4	16.9	14.8
Not at all frightened & upset	12.9	19.6	14.0	10.8	5,7
Enjoyed the experience	2.7	4.3	3.8	6.0	7.4
Total N	191	499	451	83	122
<b>₩</b>	.055		.055		

Table 15. Mean Score on the 9-Item Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory by Sample Strata, Whittier Narrows and Loma Prieta.

	Mean Score 9-Item BSI PTSD	И	
Whittier Narrows			
Los Angeles County	0.27	499	
High-Impact Area	0.25	191	
<u>p</u> =	n.s.		
<u>Loma Prieta</u>			
5-County	0.29	451	
San Francisco/Oakland Santa Cruz-Watsonville	0.26	83	
Boulder Creek	0.36	122	
<u>p</u> =	N.S.		

Table 16. Relationship Between the 9-Item Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory and Level of Fear Reported Following the Earthquake, Whittier Narrows and Loma Prieta.

	<u>Mean P</u>	Mean PTSD Score		
Level of Fear	Whittier	Loma Prieta		
Very Upset	0.33	0.42		
Somewhat Upset	0.29	0.27		
Not Very Upset	0.30	0.23		
Not at All Upset	0.15	0.14		
Enjoyed Earthquake	0.13	0.26		
<u>p</u> <	.05	.05		

Table 17. Relationships Between Demographic Characteristics and Scores on the 9-Item Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory, Whittier Narrows and Loma Prieta.

	1	Whittier	Loi	<u>Loma Prieta</u>	
	N	Mean PTSD	N	Mean PTSD	
A. One-Way Analysi	. <u>s</u>				
<u>of Variance</u>					
<u>Gender</u>					
Female	359	0.30*	366	0.34*	
Male	311	0.22	288	0.24	
Ethnicity					
White	366	0.25*	468	0.29	
Black	57	0.28	51	0.33	
Asian	42	0.12	50	0.24	
Chicano	147	0.26	39	0.34	
Other His	panic 49	0.39	38	0.34	
Marital Status					
Never Mar	ried 167	0.29*	177	0.35*	
Married	354	0.19	323	0.25	
Formerly	Married 165	0.29	154	0.33	
Home Ownership	2				
Own	399		371	0.24*	
Rent	291	0.31	285	0.38	
B. Pearson Correla	tions				
<u>with:</u>					
Age # of Chil	.dren	-0.11*		-0.14*	
in Hous	ehold	0.05		-0.03	
Education	l .	-0.09*		-0.08*	
Income		-0.11*		-0.12*	
Years in					
Califor	nia	-0.02		-0.04	

<sup>\*</sup> p < .05

Table 18. Relationships Between the 9-Item Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory and Earthquake Experiences, Whittier Narrows and Loma Prieta.

	Wh	nittier	_Lon	na Prieta
Earthquake Experiences		Mean PTSD	N	Mean PTSD
Damage				
Yes	151	0.27	254	0.38*
No	521	0.26	402	0.25
<u>Evacuated</u>				
Yes	20	0.48*	145	0.42*
No	652	0.26	511	0.26
Housed Others				
Yes	24	0.42	80	0.42*
No	648	0.26	576	0.28
Knew Injured				
Yes	30	0.31	80	0.40*
No	660	0.26	576	0.28
Knew Families With Substantial Loss				
Yes	162	0.32	309	0.31*
No	510	0.25	347	0.25

<sup>\*</sup> p < .05

Table 19. Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory by Gender and Damage Status, Whittier Narrows and Loma Prieta.

Gender and	Whit	tier Narrows <sup>1</sup>	Lo	ma Prieta <sup>2</sup>
Damage Status	N	Mean Score	N	Mean Score
Males				
Report Damage Do Not Report	30	0.30	104	0.31
Damage	281	0.22	184	0.20
<u>Females</u>				
Report Damage Do Not Report	54	0.32	150	0.43
Damage	305	0.29	216	0.28

<sup>&</sup>lt;sup>1</sup> Main effect for gender only significant at p < .05.

 $<sup>^{2}\,</sup>$  Main effects for gender and damage significant at  $\underline{p}\,<\,.01.$ 

Table 20. Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory by Gender and Evacuation Status, Whittier Narrows and Loma Prieta.

Gender and	Whit	tier Narrows <sup>1</sup>	Lom	a Prieta <sup>2</sup>
Evacuation Status	N	Mean Score	N	Mean Score
Males				
Evacuated	5	0.31	56	0.41
Did Not Evacuate	306	0.22	232	0.20
Females				
Evacuated	15	0.54	89	0.43
Did Not Evacuate	344	0.29	277	0.31

<sup>&</sup>lt;sup>1</sup> Main effects for gender and evacuation significant at  $\underline{p}$  < .05.

 $<sup>^{2}\,</sup>$  Main effects for gender and evacuation significant at  $\underline{p}\,<\,.01.$ 

Table 21. Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory by Home Ownership and Damage Status, Whittier Narrows and Loma Prieta.

Ownership and	Whit	tier Narrows¹	_Lor	ma Prieta <sup>2</sup>
Damage Status	N	Mean Score	N	Mean Score
Owns Home				
Reports Damage Does Not	56	0.28	151	0.29
Report Damage	329	0.22	218	0.20
Rents Home				
Reports Damage Does Not	28	0.37	103	0.51
Report Damage	259	0.30	182	0.30

<sup>&</sup>lt;sup>1</sup> Main effects for ownership and damage significant at  $\underline{p}$  < .05.

<sup>&</sup>lt;sup>2</sup> Main effects for ownership and damage significant at p < .001; interaction significant at p < .05.

Table 22. Post-Traumatic Stress Disorder (PTSD) Scale from the Brief Symptom Inventory by Home Ownership and Evacuation Status, Whittier Narrows and Loma Prieta.

Ownership and	Whittier Narrows 1		Loma Prieta <sup>2</sup>	
Evacuation Status	N	Mean Score	N	Mean Score
Owns Home		•		<del></del>
Evacuated	7	0.59	72	0.36
Did Not Evacuate	378	0.23	297	0.21
Rents Home				
Evacuated	13	0.43	73	0.49
Did Not Evacuate	274	0.30	212	0.34

<sup>&</sup>lt;sup>1</sup> Main effects for ownership and evacuation significant at p < .05.

 $<sup>^2</sup>$  Main effects for ownership and evacuation significant at p < .001.

## LITERATURE CITED

- Alexander D. (1985) Death and injury in earthquakes. <u>Disasters</u> 9(1):57-60.
- Aneshensel C. (1985) The natural history of depressive symptoms: Implications for psychiatric epidemiology. Pp. 45-75 in Greenley J (ed.), Research in Community and Mental Health, Volume 5. Greenwich, CT: JAI Press.
- Baum A, Solomon S, Ursano R. (1987) "Emergency/Disaster Research Issues: A guide to the preparation and evaluation of grant applications dealing with traumatic stress." Bethesda, MD: Uniformed Services University of the Health Sciences.
- Beinin L. (1981) An examination of health data following two major earthquakes in Russia. <u>Disasters</u> 5(2):142-146.
- Bolin R. (1989) "Temporary Sheltering After the Whittier Narrows Earthquake." Final Report to the National Science Foundation. Las Cruces, NM: New Mexico State University.
- Bourque L, Reeder L, Cherlin A, Raven B, Walton D. (1973) "The Unpredictable Disaster in a Metropolis: Public response to the Los Angeles earthquake of February, 1971." Los Angeles: Survey Research Center, University of California, Los Angeles.
- Committee on the Alaska Earthquake. (1969) Toward Reduction of Losses from Earthquakes: Conclusions from the Great Alaska Earthquake of 1964. Washington, DC: National Academy of Sciences.
- De Bruycker M, Greco D, Lechat M. (1985) The 1980 earthquake in Southern Italy--morbidity and mortality. International Journal of Epidemiology 14(1):113-117.
- Derogatis L, Melisaratos N. (1983) The Brief Symptom Inventory:
  An introductory report. <u>Psychological Medicine</u> 13:595-605.
- Derogatis L, Spencer P. (1982) <u>The Brief Symptom Inventory</u>
  (BSI). Clinical Psychometric Research.
- Frankel M. (1983) Sampling theory. Pp. 21-67 in Rossi P and Wright J, <u>Handbook of Survey Research</u>. New York: Academic Press.
- Fritz C. (1961) Disaster. In Merton R and Nisbet R (eds.),
  Social Problems. New York: Harcourt, Brace & World.
- Glass R, Urrutia J, Sibony S, Smith H, Garcia B, Rizzo L. (1977) Earthquake injuries related to housing in a Guatemalan village. <u>Science</u> 197:638-643.
- Green B, Lindy J, Grace M, Gleser G, Leonard A, Korol M, Winget C. (1990) Buffalo Creek survivors in the second decade: Stability and change of stress symptoms over 14 years.

  American Journal of Orthopsychiatry 60(1):43-54.
- Hoffman M. (ed.) (1991) <u>The World Almanac and Book of Facts</u>. New York: Pharos Books.
- Janis I. (1951) <u>Air War and Emotional Stress: Psychological Studies of Bombings and Civilian Defense</u>. New York: McGraw-Hill.
- Keane T, Caddell J, Taylor K. (1988) Mississippi Scale for Combat-Related Posttraumatic Stress Disorder: Three studies in reliability and validity. <u>Journal of Consulting and</u> <u>Clinical Psychology</u> 56(1):85-90.

- Keane T, Wolfe J, Taylor K. (1987) Post-Traumatic Stress
  Disorder: Evidence for diagnostic validity and methods of psychological assessment." Journal of Clinical Psychology 43(1):32-43.
- Kessler R, Price R, Wortman C. (1985) Social factors in psychopathology: Stress, social support, and coping processes. Annual Review of Psychology 36:531-572.
- Kish L. (1965) <u>Survey Sampling</u>. New York: John Wiley & Sons, Inc.
- Lechat M. (1979) Disasters and public health. <u>Bulletin of the World Health Organization</u> 57(1):11-17.
- Logue J, Hansen H, Struening E. (1979) Emotional and physical distress following Hurricane Agnes in Wyoming Valley of Pennsylvania. <u>Public Health Reports</u> 94:495-502.
- Mahoney L, Reutershan T. (1987) Catastrophic disasters and the design of disaster medical care systems. <u>Annals of Emergency Medicine</u> 16:1085-1091.
- Melick M, Logue J. (1985-1986) The effect of disaster on the health and well-being of older women. <u>International Journal of Aging and Human Development</u> 21(1):27-38.
- Mileti D, O'Brien P. (1991) "Public Response to Aftershock Warnings During the Loma Prieta Earthquake Emergency." Draft Report to the National Science Foundation. Ft. Collins, CO: Colorado State University.
- Morbidity and Mortality Weekly Report. (1990) Earthquake disaster: Luzon, Philippines. Morbidity and Mortality Weekly Report 39(34):573-577.
- Noji E. (1989) The 1988 earthquake in Soviet Armenia: Implications for earthquake preparedness. <u>Disasters</u> 13(3):255-262.
- Noji E, Kelen G, Armenian H, Oganessian A, Jones N, Sivertson K. (1990) The 1988 earthquake in Soviet Armenia: A case study. Annals of Emergency Medicine 19:891-897.
- Norris F. (1989) Screening for traumatic stress: A scale for use in the general population. <u>Journal of Applied Social</u>

  <u>Psychology</u> 20:1704-1718.
- O'Brien P, Mileti D. (1991) "Citizen Participation in Emergency Response Following the Loma Prieta Earthquake." Draft Report to the National Science Foundation. Ft. Collins, CO: Colorado State University.
- Ortiz M, Roman M, Latorre A, Soto J. (1986) Brief description of the effects on health of the earthquake of 3rd March 1985— Chile. <u>Disasters</u> 10(2):125-140.
- Chile. <u>Disasters</u> 10(2):125-140.

  Pollander G, Rund D. (1989) Analysis of medical needs in disasters caused by earthquake: The need for a uniform injury reporting scheme. <u>Disasters</u> 13(4):365-369.
- Quarantelli E. (1985) An assessment of conflicting views on mental health: The consequence of traumatic events. Pp. 173-215 in Figley C. (ed.), <u>Trauma and Its Wake</u>, <u>Volume 1</u>. New York: Brunner-Mazel.
- Sapir D, Lechat M. (1986) Reducing the impact of natural disasters: Why aren't we better prepared? Health Policy and Planning 1(2):118-126.

- Shah B. (1983) Is the environment becoming more hazardous? A global survey 1947 to 1980. <u>Disasters</u> 7(3):202-209.
- Sheng C. (1987) Medical support in the Tangshan earthquake: A review of the management of mass casualties and certain major injuries. <u>Journal of Trauma</u> 27(10):1130-1135.
- Sudman S. (1983) Applied sampling. Pp. 145-194 in Rossi P, Wright J, <u>Handbook of Survey Research</u>. New York: Academic Press.
- Thoits P. (1983) Dimensions of life events that influence psychological distress: An evaluation and synthesis of the literature. Pp. 33-103 in Kaplan H (ed.), <u>Psychological Stress: Trends in Theory and Research</u>. New York: Academic Press.
- Tierney K. (1985) "Report on the Coalinga Earthquake of May 2, 1983." Seismic Safety Commission, State of California, September 1985.
- Tierney K. (1986) "Disasters and Mental Health: A Critical Look at Knowledge and Practice." Disaster Research Center, University of Delaware.
- Trent R. (1990) "Injury Surveillance in the Aftermath of an Earthquake." Presentation to Bay Area Regional Earthquake Preparedness Project, October 1990.
- Turner R, Nigg J, Heller Paz D. (1986) <u>Waiting for Disaster:</u>
  <u>Earthquake Watch in Southern California</u>. Los Angeles:
  University of California Press.
- Wheaton B. (1988) "When More Stress is Stress Relief: Life Events as the Resolution of Ongoing Stress." Presentation to Society for the Study of Social Problems, August 1988.