

9 February, 06:00:41.6. Intensity VII--Continued.

Canoga Park:

**Topanga Plaza Shopping Center (May Company store; from Headlines, a May Company publication, undated).** "Twenty-five plate glass windows in the escalator well shattered. Approximately 50 percent of merchandise and display fixtures damaged or destroyed in the China Department. The bedding and linen stock-rooms were a tangle of toppled shelving and merchandise. Ceiling tiles and complete light casings fell. On the roof, four 4-ton fans were sheared from their bolts, and the fans moved 2 to 9 inches out of position. The Lamp, Mirror, Picture, and Television Department also received extensive damage to merchandise. The Lower Level and Middle Level also received damage. The major problem was water. Three inches of water had seeped into these levels by mid-morning as the result of damaged waterpipes in an adjacent department store in the shopping mall. The building was carefully inspected by engineers and building inspectors before storemembers were permitted to enter. Damage to the structure was only surface damage, and the building was found to be in good condition."

**21301 Saticoy Street (Alcon Liquor and Delicatessen Store).** Felt by, awakened, and frightened all (observer sleeping in well-built, one-story brick building). Trees and bushes shook; vehicles rocked. Exterior walls cracked and separated about 1.9 cm. in some places. Hanging objects swung violently in all directions. Small objects fell. Plaster cracked. Two windows broke. Damage slight. "The events took place in Canoga Park. The building is a small shopping complex. One of the stores sells liquor and groceries. Damage to bottles was extensive--40 percent of the stock fell off shelves, even though the shelves were wired to prevent falling. Movement seemed to be north-south and west-east." Ground: Compact, level.

**20749 Arminta Street. (VI)** Felt by, awakened, and frightened all in 10-year-old, well-built, one-story wood frame building. Loud, roaring and rumbling earth noises. Water splashed from swimming pool. Garage floor cracked; numerous superficial plaster cracks; one wall crack, about 45 cm. long, extended through wall. Hanging objects swung violently east-west. Small objects, too numerous to mention, fell. Furniture shifted. "Our home was shifting so violently that it was difficult to walk. We did not see any cracks immediately after the initial shock. All the cracks seemed to develop after that and during the aftershocks. All cracks and damage occurred at west end of the house. We are located on a corner and the section of the house on the corner suffered all the damage. We have found that several other 'corner' houses in our tract suffered much more damage than the houses situated between two other houses." Damage slight. Ground: Compact, level.

**7733 Delco Avenue. (VI)** Felt by all and frightened many in community; awakened all in fairly new, well-built, one-story wood frame building. Water escaped from street hydrants. Electricity off 1 hour. "Awakened by mild rolling motion of several seconds' duration, pause of a few seconds, then a sharp jolt followed by violent shaking in all directions, both lateral and vertical. The

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intensity built up during a period of 30 to 60 seconds, then abruptly stopped; then after a short pause was followed by more, milder, rolling shocks. Electric power went out at the end of the violent shock period. Flashes of light were observed during shocks. I lost all sense of direction during violent shaking. It was difficult to locate exit door in dark bedroom. Immediately after the shock a check was made for gas leaks, water leaks, broken electric cords or wires both inside and outside--none was found. No neighbors were observed outside. Power failure apparently general in the neighborhood. No structural damage noted. Many books fell from tops of bookcases and from a shelf in one closet. Bookcases did not overturn. One table lamp, 0.9 m. tall, in corner of living room, was found in middle of room about 3 m. from its original position; other table lamp just toppled over. All fallen objects were from locations on inside walls. Nothing along outside walls of house fell or moved. Water in aquarium sloshed out and water in neighbor's swimming pool sloshed out." Ground: Compact, level; mostly adobe.

7233 Kelvin Avenue. (VI) Felt by, awakened, and frightened all in home and community (observer lying down on first floor of well-built, two-story stone building). Building rocked. Closet and cupboard doors opened; articles on floor. Loud earth noises, like an approaching train. Trees and bushes shook; vehicles rocked. Portable TV (on stand) shifted. Brick garden wall fell on neighbor's car. About 0.8 m. of pool water sloshed out. Damage slight. Store windows broke. Ground: Compact, level.

7701 Canoga Avenue (Post Office). (VI) Felt by, awakened, and frightened many in community (observer walking in old, one-story concrete block building). Building shook violently. Moderate, rumbling earth noises. Weaving motion made standing difficult. Hanging objects swung violently in all directions. Small objects and furniture shifted. Protective shields on fluorescent fixtures fell along with some tubes. Poles and wires shook. "Flashing between dock shed and building needs repairs, but no obvious structural damage." Ground: Compact, level.

22435 Marlin Place. (VI) Felt by all in home and community; awakened all in well-built, one-story wood frame (slab on grade) building. Main motion seemed east-west. Building shook rapidly. "Block wall, running north-south, fell in next lot to west of us." Ground: About 0.6 m. of compacted fill over former farmland, level.

23012 Gilmore Street. (VI) Felt by and awakened all in community; frightened all in old, well-built, one-story wood frame building (observer sleeping). Trees and bushes shook. Water sloshed from neighbor's swimming pool. Small objects shifted and fell; furniture shifted. Few minor plaster cracks. "Minor foundation cracks, but possibly due to other causes." Damage slight. Ground: Compact, level.

8742 Farralone Avenue. (VI) Felt by, awakened, and frightened all in community (observer lying down in two-story wood frame building). Doors swung. Small objects and lamps overturned; knickknacks, books, and pictures fell. Dishes broke. Damage slight. Motion rapid; lasted 1 minute. Ground: Rocky; hilltop.

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Valley Park Highlands. (VI) Felt by, awakened, and frightened all in community (observer sleeping in well-built, one-story wood frame building). Entire house rattled; sound of nails being pulled. Moderate earth noises. Pool water sloshed out. Minor plaster cracks. Ground: Compact, sloping.

20002 Blythe Street (Winnetka district of Canoga Park). (VI) Felt by, awakened, and frightened all in community (observer sleeping in new, well-built, one-story wood frame building). Small objects overturned to west. Furniture shifted, overturned, and broke. Minor damage. Ground: Alluvium.

Other observers at Canoga Park reported: 23952 Archwood Street (west area): "I heard a rumbling noise just prior to feeling the shock. Predominantly east-west vibration with some north-south motion. Felt more like several quick vibrations, then a little slower, then several quick motions, with a total response effort similar to a boat action in water." 23825 Vanowen Street (west area): "No dishes, glasses in cupboards broken or noticeably moved. No books fell from bookcase. Lost about 3.8 cm. of water from 28-l. fish tank; light hood on tank bounced out of place but did not fall off. Many pictures on walls did not move or shift. The large, heavy, hanging lamp over dining table swung more than moderately but not violently in an east-west direction. During the first aftershock, about a half hour later, the lamp swung in a north-south direction but not as hard this time." 6911 McLaren Avenue (northwest area): "Shock was felt for a considerable length of time. Rattling, creaking, etc., noises were continuous. Telephone and power out. Water was running, but during the day it became contaminated and remained so for about 1 day."

Encino:

4710 Noeline Avenue. Felt by, awakened, and frightened all in old, well-built, one-story wood frame building. Building sounded as if it were coming apart. Two palm trees knocked over. Flagstone and concrete driveway cracked; concrete and flagstone pool deck raised 1.3 cm. above pool tile; steel support column of porch roof shifted 3.8 cm. out of concrete base; garage roof support timber, 10 by 30 cm. and 6.1 m. long, shifted about 2.5 cm. on north end. Hanging objects swung violently north-south. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked. About 0.3 m. of water sloshed from pool. Damage about \$4,000. Ground: Compact.

4581 White Oak Place. (VI) Felt by, awakened, and frightened all in community (observer sleeping in well-built, one-story wood frame building). Twisting and rubbing of lumber in building. Faint earth noises. Waterlines broke. Hanging objects swung violently northeast-southwest. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked. Ground: Level (hillside cut).

16657 Oldham Street. (VI) Felt by and awakened all in community; frightened many (observer sitting in 10-year-old, well-built, one-story wood frame building). Loud earth noises. Trees and bushes shook; vehicles rocked. Electricity out. Block walls broke. Hanging objects swung violently. Pool water sloshed out on east side of pool. Ground: Silty, clayey gravel, level pads in hills.

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No address given. (VI) Felt by and awakened all in well-built, one-story wood frame building (observer sitting); frightened few. Windows, doors, dishes, etc., rattled severely; building creaked severely. Trees shook violently. Pool water sloshed out, swamping yard with water. Hanging objects swung violently; swag light fell. Small objects shifted. Plaster cracked; some chimney cracks. Damage moderate. Ground: Compact, level.

Fillmore. Felt by, awakened, and frightened all in community (observers sitting and sleeping in old, well-built, one-story wood frame buildings). Loud earth noises. Vehicles rocked. Water sloshed from swimming pools. Chimneys, plaster, and windows cracked. Hanging objects swung violently east-west. Small objects overturned and fell. Furniture shifted. "We lost one building in town--a dress shop--when the roof caved in. Two other business buildings were damaged: One furniture store lost part of the roof in the rear of the building and a hardware store lost part of the brick firewall on the north side of the building. All of the grocery and liquor stores in town suffered losses when canned and bottled goods fell off the shelves and display counters. Electrical service was out in the surrounding rural areas for a short time, about 5 to 15 minutes." "I was awakened by a terrific shaking of the bed and a terrible noise. Seemed as if the house would fall to pieces, but the only damage to the structure was to an outside brick chimney which was separated from the house by about 1.9 cm. About 2-1/2 city blocks away, the side of a two-story brick building fell on a one-story frame roof and demolished the smaller building. There was some damage to an orange-packing house. The lights were out for a few minutes." Ground: Compact, level.

Flintridge (southwest of La Canada;  $34^{\circ}11' N.$ ,  $118^{\circ}10' W.$ ). Felt by all in community; awakened all in old, well-built, two-story wood frame building (observer standing). Building creaked loudly. Loud earth noises. Trees and bushes shook; vehicles rocked. Water sloshed from swimming pool. Heavy chimney sheared off at roofline. Plaster cracked throughout interior. Minimum cracking of exterior stucco. Roof tiles shifted and broke. Torsion of building visually observed. Interior wood and lath and plaster failed (both horizontally and diagonally) in shear, and vertically in tension. Also some compression parallel to wave travel. Wall damage was extensive; ceiling damage was moderate. "Very little displacement, horizontal or vertical, at right angles to direction of wave travel (bookshelves at right angles to maximum displacement line were emptied, those parallel were not; same for shelves and cabinets)." Ground: Gravelly, compact, level.

#### Glendale:

The following, from Steinbrugge and others<sup>8</sup>, does not include publicly owned structures: "31 buildings posted unsafe; buildings demolished or to be demolished-- residential, 13; commercial, 23; churches and schools, 5; 3,250 chimneys damaged; estimated total dollar loss, \$2 million." Press reported the Glendale Presbyterian Church (built in 1923) was severely damaged. The First Methodist Church was not damaged, but in the 54-year-old former sanctuary

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- behind it, towers fell through the roof. A Glendale press report (dated Apr. 7, 1971) stated earthquake damage to Glendale schools had reached an estimated \$272,561. Repairs and damage ranged from a low of \$18 at Daily High School to a high of \$57,400 at Crescenta Valley High School. Damage at Clark Junior High School was set at \$56,250. Students probably will not be allowed to use the Hoover High School auditorium this year as the structure apparently has to be beefed up, brick facing removed, etc. Another press report (dated Apr. 22, 1971) stated demolition occurred at 40 separate general locations and included 400 chimney projects. Major demolitions were the Glendale Presbyterian Church sanctuary at 219 E. Harvard Street (\$70,283) and the First United Methodist Church at Jackson Street and Wilson Avenue (\$47,317). Repair of public buildings, utilities, and related costs amounted to \$342,589. The Public Service Building, costing \$257,000 in restoration from quake damage, was hit the worst.
- 1414 Virginia Avenue. Felt by and awakened all in community; frightened few in old, well-built, one-story wood frame building (observers walking and sleeping). Too much noise from breaking glass to hear building noise. Three chimneys broken off at roofline across street; two cracked next door. Hanging objects swung moderately. Small objects shifted and fell (25 percent of dishes broke). Furniture shifted. Minor plaster cracking. Ground: Compact, slightly sloping.
- 126 Burchett Street. Felt by all in community (observer sitting in old, one-story wood frame building). Rapid rocking and trembling of building. Windows opened. Trees shook. Water brownish color. Chimneys collapsed. Street lights flashed. Electricity off. Small objects shifted and fell along west side of building. Furniture shifted. Plaster cracked at northwest corner of building. Damage slight at observer's home. Ground: Gravelly, level.
- 241 N. Jackson Street. Felt by and awakened all in community; frightened few (observer sleeping on third floor of new, well-built, three-story wood frame building). Loud building noise, mainly from roof area. Trees and bushes shook. Few chimneys overturned in area. Hanging objects swung moderately east-west. Only glasses fell. Furniture shifted slightly. Plaster cracked in area. Many windows cracked in community. Moderate damage to several nearby buildings. Ground: Compact, level.
- Post Office. Felt by, awakened, and frightened all in community (observer on main floor of old, well-built, three-story granite block building). Building sounded as if it would collapse. Loud earth noises. Ground cracked. Chimneys overturned. Hanging objects swung violently north-south. Small objects fell. Furniture overturned and broke. Plaster and windows cracked. Damage moderate (no structural damage). Ground: Level.
- 322-1/2 N. Kenwood Street. Felt by all and awakened many in community (observer lying down on second floor of older-type, two-story wood frame building). Felt as if building would collapse. Faint, rumbling earth noises. Chimney across street collapsed. Two lamps broke. Plaster cracked. Bookcase fell (west wall); refrigerator moved out about 8 cm. from south wall. One brick (quite heavy) from brick bookcase was thrown about 2 m. Ground: Level.

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- 1155 N. Brand Boulevard. Felt by, awakened, and frightened many (observer sleeping on ninth floor of well-built, 11-story reinforced concrete building). Building moved in circular motion. Too much noise within building to hear earth noises. Hanging objects swung north-south and east-west. Small objects shifted, overturned, and fell; many items broke. Furniture overturned and broke. Plaster cracked, broke, and fell at lath and plaster partitions at ends of walls. The two elevators in building were put out of commission due to counter balances being knocked out of their guiderails. No structural damage. Ground: Sand and gravel, alluvial fill.
- 3039 San Gabriel Avenue. Felt by, awakened, and frightened all (observer lying down in strongly built building). Loud earth noises. Trees and bushes shook strongly. All lights swung. All small objects and furnishings shifted; vases, etc., small objects and furniture overturned. Plaster, windows, walls, chimneys, and ground cracked. Knickknacks, books, pictures, and plaster fell. Dishes, windows, and furniture broke. Damage considerable. Ground: Compact.
- 1340 Barrington Way. (VI) Chimney broke. Substantial plaster cracking.
- 641 W. Lexington Drive. (VI) Felt by and awakened all lying down in old, well-built, one- and one-half-story wood frame building. Building shook and creaked very strongly. About 1.8-m.-high block wall fence down. Glasses and dishes broke. Lamps, etc., fell. Plaster cracked on bedroom ceiling. Ground: Level.
- 705 E. Cypress Street. (VI) Felt by and awakened all; frightened many (observer in old, well-built, two-story wood frame building). Hanging objects swung violently. Small objects shifted, overturned, and fell. Plaster cracked. Damage slight. Water sloshed from swimming pool. All clocks stopped; some were damaged in fall from shelves and mantel. Ground: Rocky, sloping.
- 1824 Wabasso Way. (VI) Felt by, awakened, and frightened all in community (observer standing in strongly built, one-story wood frame building). Faint earth noises. Hanging objects swung east-west. Trees and bushes shook slightly. Small objects and furnishings shifted. Vases, etc., small objects overturned; knickknacks, books, and pictures fell. Dishes broke. Damage considerable. Ground: Compact, level.
- 1416 Highland Avenue. (VI) Felt by, awakened, and frightened all in community (observer in well-built, one-story wood frame building). Chimneys damaged. Hanging objects swung violently. Small objects shifted, overturned, and fell. Furniture shifted. Damage slight. Ground: Gravelly, sloping.
- 3472 Roselawn Avenue. (VI) Felt by, awakened, and frightened all in community (observer in new, well-built, one-story wood frame building). Hanging objects swung moderately. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked slightly around openings. Fireplace displaced about 0.2 cm. from wall. Damage slight. Ground: Gravelly, sloping.
- 1615 Don Carlos Avenue. (VI) Felt by and frightened all (observer standing in old, fairly well-built, two-story wood frame building). Loud, roaring earth noises. About 0.3 m. of water splashed from pool. Hanging objects swung violently

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east-west. Dishes thrown out of cupboards; books fell. Mirror broke. Ground: Gravelly, sloping.

723 E. Chestnut Street. (VI) Felt by, awakened, and frightened many in community; all in old, two-story wood frame building. Moderate earth noises. Trees and bushes shook; vehicles rocked. Several swimming pools lost 0.3 to 0.6 m. of water. Hanging objects swung moderately. Small objects overturned and fell; most lamps and items on tables fell to the floor. Furniture shifted; 20-l. water cooler overturned. Plaster cracked. Damage slight. "Motion very jerky rather than rolling; lasted about 1 minute. Noise, mostly building noise, was very loud. Felt strong shock about 2 to 3 minutes later. Aftershocks have been numerous. Several felt every night until February 20. Many were strong enough to overturn a lamp or two. Very difficult to sleep. Most were felt at night between 10 p.m. and 3 a.m." Ground: Compact, level.

La Canada:

Press reported powerlines down.

1001 Ridgecliff Lane. Felt by all in community (observer standing on second floor of strongly built, wood frame building). Noise seemed to come from all directions. Trees and bushes shook strongly. Small objects shifted and overturned. Knickknacks fell. Chimneys fell. Damage considerable.

200 Michigan Avenue (St. Francis High School). Felt by all and frightened many in strongly built, brick and concrete building (observer lying down). Small objects and furnishings shifted; 160-l. fish tank moved about 15 cm. Vases and small objects overturned; knickknacks, pictures, books (from east-facing bookshelf), and plaster fell; low, false ceiling bent and fell. Chimneys fell. Damage slight at observer's home. Ground: Soil, compact.

4914 Alta Canyada. (VI) Felt by, awakened, and frightened all (observer lying down in weakly built, one-story wood frame building). Loud earth noises from north. Hanging objects swung north, northeast, and east-west. Trees and bushes shook strongly. Small objects and furnishings shifted; vases and small objects overturned. Plaster, windows, and walls cracked. Knickknacks, books, and plaster fell. Ground: Rocky, loose, sloping.

936 Craig Avenue. (VI) Felt by, awakened, and frightened all in community (observer standing in old, one-story wood frame building). Very loud earth noises. Chimney cracked. Hanging objects swung east-west. Small objects overturned and fell. Furniture overturned. Plaster cracked. Windows broke. Damage moderate. Ground: Compact, sloping.

4234 Shepherds Lane. (VI) Felt by and awakened all in community; frightened many (observer in well-built, one-story wood frame building). Rumbling earth noises. Hanging objects swung violently. Small objects overturned. Plaster fell. Damage slight. Ground: Gravelly, loose, level and sloping.

4607 Hillard Avenue. (VI) Felt by, awakened, and frightened all in old, well-built, one-story wood frame building. Hanging objects swung violently north-south. Small objects fell. Furniture shifted. Plaster cracked, broke, and fell. One small window broke. Damage moderate. Ground: Compact, sloping.

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2216 Fairhurst Drive. (VI) Felt by, awakened, and frightened all in community (observer in one-story wood frame building). Loud rumble. Hanging objects swung east-west. Trees and bushes shaken strongly. Stove moved. Vases and ashtrays overturned. Chimney cracked. Knickknacks, books, and pictures fell east-west. Dishes and jars broke. Damage slight. Ground: Rocky.

5429 Burning Tree Drive. (VI) Felt by, awakened, and frightened all in community (observer in strongly built, two-story wood frame building). Rumbling earth noises at first, then a deafening roar. Doors slammed; hinges pulled loose. Trees and bushes shook strongly. Furnishings shifted. Small objects fell. Damage slight. Ground: Rocky, granitic.

5008 Crown Avenue. (VI) Felt by, awakened, and frightened all in old, well-built, one-story wood frame building. Building popped and crackled. About 5 cm. of water sloshed from swimming pool. Hanging objects swung moderately north-south. Small objects shifted and overturned. Plaster cracked (two small vertical cracks at corners). Damage slight. "At 6:10 a.m. surface of pool showed violent action. At 7:00 a.m., pool surface was smooth but water was still swaying about 3 cm. from end to end." Ground: Compact, sloping.

4143 Forest Hill Drive. (VI) Felt by and awakened all in community; frightened many (observer in well-built, one-story wood frame building). Building creaked loudly and continuously during shock. Faint earth noises. Trees and bushes shook. Pool water sloshed violently. Hanging objects swung moderately north-south. Small objects shifted. "There was a distinct feeling of significant vertical acceleration during the early moments of the shock." Ground: Weathered granite, sloping.

No address given. (VI) Felt by, awakened, and frightened all in well-built, one-story wood frame building. Loud earth noises. Trees and bushes shook; vehicles rocked. Chimney cracked. Slab in patio raised and cracked. Hanging objects swung violently north-south. Small objects fell. Pictures tilted. Plaster cracked. Ground: Compact, level.

#### La Crescenta:

4946 Pennsylvania Avenue. Felt by, awakened, and frightened many in community (observer in well-built, one-story wood frame building). Vehicles rocked. "I was driving on steep road about 1-1/2 km. from home; returned home." Chimneys cracked and overturned. Many false fronts of buildings were damaged badly. Hanging objects swung in seemingly north-south direction. Small objects fell. Furniture overturned and broke. Plaster cracked by fireplace; fireplace damaged from floor to ceiling. Water and furnace pipes broke. Damage moderate. Ground: Rocky, sloping.

4904 Pennsylvania Avenue. Felt by, awakened, and frightened all in community (observers sleeping and standing in old, well-built, one-story wood frame building). Violent up-and-down motion accompanied by loud earth noises. Vehicles rocked. Lath house down. Chimneys cracked; had to be removed immediately. Hot water tank lines broke. Hanging objects swung violently. Small objects overturned and fell; furniture shifted. Plaster cracked and broke. Interior and



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exterior stucco cracked at corners. Damage moderate. Damage to building and contents estimated at \$3,000. Ground: Rocky, level.

5542 Pine Glen Road. Felt by and awakened all in community; frightened many (observer in shower on second floor of new, well-built, two-story wood frame building). Moderate, rumbling earth noises. Chimneys cracked, twisted, and overturned. Hanging objects swung moderately north-south. Small objects shifted and overturned, mostly in east-west direction, some north-south. Old plaster cracks opened. Unreinforced (pre-1933) brick parapet failures. "We had very little breakage from dishes and knickknacks, probably due to the bed-rock foundation, but friends living out in the center of the canyon or on deeper alluvial deposits had considerable glass and dish breakage. One friend on third floor of wood frame apartment building had a wall-mounted a.c. unit fly east half-way across the room. I tried to analyze the direction of motion at my house from swinging of lamps and displacement of objects and finally decided it had to be east-west, even though swag lights in bedroom were swinging north-south." Ground: Decomposed granite; level pad with steep cut in rear.

2938 Henrietta Avenue. Felt by and awakened all in community; frightened many (observer sleeping on second floor of old, well-built, two-story wood frame building). Deep, pronounced earth rumble. Trees and bushes shook. Tops on few chimneys broken off. Some old stone walls cracked. Small objects shifted, overturned, and fell; stores suffered greatly from fallen merchandise. Furniture on hard surfaces shifted. Plaster cracked, broke, and fell, principally in older buildings. Many windows cracked in old and new buildings. "Damage slight in my immediate location." Ground: Rocky, large boulders with rock and gravel, compact, sloping (about 10 percent grade).

3939 Santa Carlotta Street. Felt by, awakened, and frightened all in community (observer lying down on second floor of well-built, two-story wood frame building). Everything rattled. Loud earth noises. About 15 cm. of water splashed from swimming pool. Concrete and stone supporting wall dislocated; concrete pool deck cracked. Hanging objects swung, seemingly in northwestern direction. Small objects shifted, overturned, and fell. Furniture on casters shifted. Hair-line plaster cracks in ceiling. Putty fell from windows. Concrete and wood connection shifted about 0.9 cm. Ground: Rocky, gravelly, sloping.

#### Los Angeles:

Moderate damage occurred in downtown Los Angeles, especially to older-type buildings with brick and masonry facings. Portions of an old building, the Mission Inn, collapsed, killing one person. Extensive damage occurred to some of the old historic buildings on Olvera Street. Press reported "unsafe" and "potentially unsafe" signs were posted at some buildings in "Little Tokyo" and along Main and Los Angeles Streets. Considerable nonstructural damage occurred to some of the larger buildings and to some high-rise buildings--plaster partitions cracked; fall of plaster and tile; broken windows. Many elevators were knocked out of service. Press reported the City Hall (27 stories; built in 1927) was a shambles from fallen plaster and cracked walls from the 15th floor up; extensive

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damage was reported in the Hall of Justice (15 stories; built in 1925) where windows were broken and plaster and tile fell to the floor; an 8-cm. crack was reported in the jail section. At the Hall of Administration (eight stories), roof cracked; seismic joints cracked throughout. At the Occidental Tower (built in 1965), ceiling tile fell, and there were a number of broken windows. There was some damage, largely cracked plaster, at the 42-story Union Bank Square Building where elevators were knocked out of commission. At the Roosevelt Building, marble was shaken loose in the lobbies and walls cracked. It was reported the 32-story Bunker Hill Tower, with its two 19-story buildings, sustained only minor damage to ceilings and walls. The old Los Angeles High School (a four-story, 92-classroom building; built in 1917 and rebuilt after the 1933 earthquake) was ordered razed because of damage. It was reported the May Company store was closed to customers because of extensive interior damage. Chimneys fell, plaster cracked and fell, and windows broke in many other areas and districts of Los Angeles City. The California Institute of Technology<sup>2</sup> reported that there were reports of ruptured gaslines in Highland Park, and in Eagle Rock, it was reported a ruptured gasline blew a crater in a freeway overpass bridge.

The following reports were received from private observers:

Abbey Hotel (825 W. Eighth Street). Frightened all in the building. "Old, poorly built, four-story building. Section about 1.5 by 2.4 m. fell away from lobby wall; waterpipe damage at this break. Primary shock was moderate shaking for first 5 to 10 seconds, then grew rapidly in intensity; stayed at maximum for about 40 seconds, with immediate aftershocks of strong rolling motion, floating feeling; building noise almost ceased during this period. It seemed that during these aftershocks ground noises could be heard, sounding like large masses of rock, at great depth, being shifted against one another. Some damage: Cracks, about 0.6 to 0.9 cm. in width, opening on wall corners adjacent to stairway entrances on each floor; on ground floor (lobby), plaster fell from ceiling above last flight of stairs and adjacent ceiling area where wall fill and plaster fell out. Lights in room flickered on and off during the main shake, with floor lamp in great agitation. Damage slight to building. Much masonry-facing damage one block away; much window breakage and masonry-facing damage on taller buildings."

May Company store (from Headlines, a May Company publication, undated). "The downtown store was closed to storemembers early Tuesday morning while building inspectors, store security and engineers checked every area of the store. The building was considered structurally sound and safe for entry; but because of the damages to the interior the store remained closed to customers. The 'back' stairwell, escalators and elevator wells seemed to have suffered the most damage. Walls surrounding the back stairs and the walls in the adjacent halls sustained much surface damage in cracked and fallen plaster, and in some cases, holes in walls and at corners were visible. Main wall supports were in good condition and were not damaged. The escalators were extensively damaged. Exterior damage to the store was confined to display windows and decorative

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treatment on the building. Well over 60 percent of the plate glass windows were shattered. Some slight damage was noticeable on cornices and ornamental trim."

Olympic Boulevard and Alameda Street (about 3 km. south by east of Civic Center).

"The building in which I work (Olympic and Alameda) sustained approximately 400 broken windowpanes, about 35 by 51 cm., all steel sash. Almost 100 percent of these were on the north and south sides of the building. One or two freight-type elevators were inoperative owing to guide tracks warping and permitting counter-balance weights to swing free."

127 S. Serrano Avenue (in area about 2 km. southwest of Los Angeles City College).

Felt by and awakened all in community; frightened many (observer sleeping on second floor of old, well-built, two-story wood frame building). Two loud cracking sounds of building, then many creaking sounds. Pool water splashed about 6 m. horizontally. Almost all nearby chimneys fractured. Small objects shifted, overturned, and fell; dishes and glasses broke. Bookcase fell; dresser moved. Many new plaster cracks appeared in all eight rooms. Damage slight. Ground: Compact, level.

3812 Terry Street (in area about 1.2 km. northwest of Silver Lake). Felt by, awakened, and frightened all in community (observer standing on second floor of fairly new, two-story wood frame building). Building creaked severely. Loud, crackling earth noises. Vehicles rocked (cracked water hose to radiator).

Water shaken from house gutters. Hanging objects swung violently north-south. Small objects overturned and fell; some "flew" through the air. Furniture shifted; heavy chest moved 30 to 38 cm. away from wall. Plaster cracked, broke, and fell; ceramic tile fell. "Everything in front apartment that was movable shifted. I attempted to walk across the room but was unable to do so." Damage moderate. Ground: Compact, adobe.

932 Maltman Avenue (Silver Lake area, about 0.8 km. from southwest shore). Felt by and awakened all in community; frightened many (observer sleeping on second floor of new, two-story wood frame building). Moderate earth noises. Trees and bushes shook; vehicles rocked. Chimneys cracked and overturned. Water splashed from swimming pools in the area. Hanging objects swung moderately. Small objects shifted. Some plaster cracked, broke, and fell; one window cracked. Damage slight. Ground: Compact, sloping.

4411 Los Feliz Boulevard (south of Griffith Park). Felt by, awakened, and frightened all in community (observer standing on second floor of new, well-built, 13-story reinforced concrete building). Building creaked. Moderate earth noises. Chimneys cracked, twisted, and overturned. "Older masonry buildings generally damaged." Hanging objects swung violently east-west. Small objects and furniture shifted. Plaster cracked. Damage moderate. Ground: Alluvial deposits and decomposed granite, sloping.

2835 Sunset Place (about 4 km. west by north of Civic Center, near Lafayette Park). Felt by observers lying down on first floor of old, two-story wood frame building. Everything shook and rattled; building creaked. Powerlines flashed at rear of building. "Chimneys in same block fell; some cracked and will be removed.

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There were reports of broken dishes in the area. We had nothing broken; one small mirror fell." Ground: Very compact, slightly sloping.

Hollywood area. Sidewalks buckled. Windows broke. Chimneys cracked and fell. Buildings were damaged, especially brick buildings. "After the earthquake, people were outside on sidewalks and would not go back inside because of the aftershocks. I thought the building would disintegrate. Part of a brick wall on roof fell. Arch over building entrance cracked, creating danger. Brick buildings seemed to be more damaged than single-structure cement buildings."

"Lights out almost immediately and things overturned. Saw flashes of light from shorted telephone pole transformers--thought the whole city was ablaze. Got dressed and went outside; sat in car, as I thought there would be aftershocks, and there were. Noted some traffic lights were inoperative. People went outside after the shock, then attempted to go back inside, but aftershocks kept them outside for about 25 minutes." Observer at 1627 N. Normandie Avenue reported: "Older brick buildings received the most damage. Chimneys cracked. Heavy objects moved. Water sloshed from toilet bowls. This area where I live was apparently jolted heavier than other sections of Hollywood. Perhaps adobe soil is responsible."

5238 College View Avenue (south of Ventura Freeway and just southeast of southeast corner of Glendale city limits). Felt by all, awakened most, and frightened many in community (observer sitting in 60-year-old, well-built, one-story wood frame building). Trees and bushes shook; vehicles rocked. Hanging objects swung moderately. Small objects shifted, overturned, and fell. Furniture shifted slightly. Observer reported there was no damage to his home, but most neighbors' chimneys were cracked, twisted, and overturned. Ground: Decomposed granite and alluvium, slightly sloping.

5415 Wameda Avenue (Eagle Rock area). Felt by, awakened, and frightened all in community (observer lying down in strongly built, one-story wood frame building). Very loud earth noises. Whole house shook violently--had to "hold on." Hanging objects swung back and forth. Trees and bushes shook moderately. Drawers opened. Furniture moved. Plaster cracked and fell; window broke. Books and pictures fell; everything askew. Dishes "flew" out of cupboards and shattered. Air raid siren short-circuited. Car fell off jack stands in garage. Ground: Level.

5151 State College Drive (California State College, just northeast of Monterey Park city limits). "On the California State College Campus the new eight-story Administration Building is built on about 7 pairs of reinforced concrete columns (no first floor). Column pairs 1 and 7 exhibit tension cracks. No other columns show any damage. Plaster cracks, 45° diagonal, only in east-west walls. Corners of rooms and steel door frames show separation cracks. Bookcases fell if facing east-west; generally did not fall if facing north-south."

3566 Lowry Road (in area about 0.8 km. southeast of Griffith Park, west of Golden State Freeway). Felt by all in community; awakened and frightened all in new, well-built, two-story wood frame building. Building swayed and vibrated.

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Chimneys cracked, twisted, and overturned in older homes. Hanging objects swung, seemingly east-west. Small objects shifted, overturned, and fell. Considerable ceiling and glass damage in vicinity. "Many pre-1933 masonry buildings severely damaged, some beyond repair, within about a 3-km. radius of my house." Ground: Rocky, sloping.

Fifth and Spring Streets (Alexandria Hotel). (VI) "I saw substantial to heavy plaster cracking on sixth and eighth floors. Minor cracking elsewhere in the building."

545 S. Figueroa Street. (VI) Felt by observer in basement of old, well-built, 13-story concrete and steel building. Building made grinding noise. Vehicles rocked; light poles swayed. Hanging objects swung north-south. Portions of plaster fell in elevator shafts. Rapid ground motion. "I walked outside and looked up at the Atlantic Richfield Towers; could hear cracking sounds throughout the 52-story structure, but did not observe anything falling."

234 S. Figueroa Street. (VI) Felt by and awakened all in community; frightened many (observer on sixth floor of new, well-built, 19-story concrete and steel apartment building). Too much building noise to have heard earth noises. Water disturbed. Hanging objects swung violently. Small objects shifted, overturned, and fell; furniture shifted. Hairline plaster cracks. Damage slight. Ground: Level.

222 S. Figueroa Street. (VI) Felt by, awakened, and frightened all in community (observer sleeping on 19th floor of new, well-built, 19-story reinforced concrete building). Building creaked with very solid sound. Loud noise; may have been building noise. Hanging objects swung violently north-south. Small objects overturned and fell; furniture shifted, overturned, and broke. Ground: Level.

900 N. Alameda Street (Terminal Annex Post Office Building). (VI) Felt by and awakened all in community; frightened many (observer walking in basement of old, well-built, five-story building). Stairwells creaked. Moderate earth noises. Trees and bushes shook; vehicles rocked. Hanging objects swung violently east-west. Small objects shifted, overturned, and fell; furniture shifted, overturned, and broke. Plaster cracked, broke, and fell. Damage slight. "Damage to the building was mainly due to falling light fixtures and plaster. Stairwells seemed to receive the greatest plaster damage. Expansion joint between the old and new wings was damaged." Ground: Compact, level.

34° N., 118°15' W. (no specific address given but coordinates place the area about 1-1/2 miles west of Vernon). (VI) Felt by, awakened, and frightened all in community (observer sleeping in old, well-built, one-story wood frame building). Rolling, pitching and swaying motion. Loud earth noises. Trees and bushes shook; vehicles rocked. Chimney cracked. House and foundation moved up. Hanging objects swung violently in all directions. Small objects shifted, overturned, and fell; furniture shifted, overturned, and broke. Plaster cracked, broke, and fell. Damage slight. "Aftershocks at 21:00 on same day were almost as violent as the main shock, but not as long." Ground: Rocky, sloping.

1426 Carroll Avenue (about 1.6 km. north by west of Civic Center). (VI) Felt by and awakened all in community; general panic (observer sleeping on second floor of old, two-story wood frame building). Moderate earth noises. Hanging objects

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swung. Small objects shifted, overturned, and fell. Some plaster cracks in wall. Ground: Compact; top of a small hill.

111 N. Hope Street (in area about 2.4 km. southwest of Civic Center). (VI) Felt by, awakened, and frightened many in community (observer sitting on 11th floor of new, 15-story reinforced concrete and steel building). Doors closed; file drawers opened; blinds moved. Hanging objects swung east-west. Small objects fell out of cabinets. Plaster cracked and fell. Only one window broke in the building. "Radio Station KMPC went off the air same time as shock hit." Ground: Level.

2140 W. Olympic Boulevard (about 3.2 km. west by south of Civic Center). (VI) New, L-shaped, concrete block building. Observer's office on fifth floor at corner end of building. A bookcase, about 1.8 m. high, full of books, was overturned. Objects fell off desks and shelves. Cracks in brick at second floor.

961 S. Elden Avenue (about 4 km. southeast of Civic Center, near Olympic Blvd.). (VI) Felt by, awakened, and frightened all in community (observer lying down on second floor of poorly built, three-story building). Loud, rumbling earth noises. Hanging objects swung violently. Small objects shifted, overturned, and fell. Furniture shifted, overturned, and broke. Plaster cracked, broke, and fell. Damage moderate. Ground: Compact, level.

2827 W. Seventh Street (about 3.6 km. west by north of Civic Center). (VI) Felt by and frightened all (observer walking on first floor of old, two-story wood frame building). All building joints creaked and rattled. Chimneys cracked next door. Hanging objects swung violently east-west. Small objects shifted, overturned, and fell; furniture shifted. Windows cracked. Damage slight.

538 S. Oxford Avenue (about 4.4 km. west by north of Civic Center). (VI) Felt by and awakened all in new, well-built, three-story reinforced concrete and steel building (observer on second floor); frightened many. Violent north-south jerking motion. Bed shook violently. Faint earth noises. Considerable creaking and snapping of building. Telephone wires arced. Hanging objects swung moderately north-south. Small objects fell; wine rack fell off refrigerator and bottles broke. Furniture shifted. Small areas of plaster fell; noticeable crack on wall in stairwell between floors 1 and 2. A number of people ran into the street. "Considerable and frequent aftershocks." Ground: Alluvium, compact, level.

960 S. Oxford Avenue (about 6.4 km. west of Civic Center). (VI) Felt by, awakened, and frightened all in community (observer sleeping on third floor of old, well-built, three-story wood frame building). The rattling and noise of overturning objects masked any other sounds. Most objects under 4.5 kg. shifted, overturned, and fell; some heavy furniture shifted slightly. Plaster cracked, broke, and fell, and windows cracked in nearby houses. Damage slight. "Although there was no damage to my building, brick and block buildings nearby did have damage, though not great, excepting the Los Angeles High School. I noted that cupboards, shelves, etc., facing north-south had little thrown out, while those facing east-west were emptied. Most spectacular effect was the shorting of transformers--it was like a bomb attack." Ground: Compact, filled in, sloping (landscaped).

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210 S. Citrus Avenue (about 9.2 km. northwest of Civic Center). (VI) Felt by and awakened all on second floor of old, well-built, two-story wood frame building; frightened few. Fences rattled. Moderate earth noises. Upper portion of brick chimney shattered. Hanging objects swung moderately east-west. Small objects fell. Plaster cracked. Damage slight. Ground: Compact, level.

1037 Ridgeley Drive (near Olympic and San Vicente Blvds.). (VI) Felt by all and awakened many in community (observer sleeping in well-built, one-story building); frightened few. Building moved back and forth. Moderate earth noises. Trees and bushes shook; vehicles rocked. Hanging objects swung east-west. Small objects shifted, overturned, and fell. Plaster cracked, broke, and fell. Damage slight. Ground: Compact, level.

435 S. Curson Avenue (east of Beverly Hills). (VI) Felt by all; awakened and frightened many in community (observer sleeping on 13th floor of fairly new, 13-story reinforced concrete building). Walls and windows made cracking sounds. Trees and bushes shook; vehicles rocked. Water disturbed. Hanging objects swung violently in roughly north-south direction. Small objects fell from bookcases, etc. Tropical fish aquarium moved. Plaster cracks on several walls but none serious. Ground: Compact, level.

Century Plaza Hotel (Century City district, southwest of Beverly Hills). (VI) Felt by, awakened, and frightened all in new, reinforced concrete and steel building (observer on 11th floor; 18 stories). Building made grinding noise. Loud, roaring and rumbling earth noises. Hanging objects swung violently. Plaster cracked and fell. "We were told that the Century Plaza Hotel was built to vibrate and sway during an earthquake, and indeed it did. Only a few small pieces of plaster fell in our room on the 11th floor, but a friend's room on the seventh floor was covered with small bits of plaster. We also noticed, walking down the fire stairs, that the further down we got, the more the plaster was cracked, and the larger the pieces that had fallen out. Everyone we saw in the lobby was frightened; one woman was hysterical."

Crenshaw May Company Store (from Headlines, a May Company publication, undated). (VI) "Crenshaw experienced damage in the Liquor Department, and display windows around the store splintered during the sharp jolt. Surface damage to the interior was also apparent."

2053 Meadow Valley Terrace (Elysian Park area). (VI) Felt by and frightened all in community; awakened many (observer sleeping on first floor of old, two-story wood frame building). Seemed as though walls might fall. Water disturbed. Chimneys twisted. Lights flickered off and on (not turned on). Knickknacks thrown off shelves and tables. Plaster cracked. "I was scared 'to death.'" Ground: Silty sand, sloping; on hillside.

4622 Verdugo Road (1 block southeast of Glendale city limits). (VI) Awakened and frightened all in community (observer active in one-story wood frame building; duplex). Felt as if one were on choppy water in a boat. Thudding sounds underneath the house, along with strong vibrations. One dish thrown to floor. Small settling cracks in house. Two doors away, a chimney was cracked at top. Every

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aftershock was preceded by a rumbling-type noise. Several of the shocks rattled a china cabinet much more than the main shock."

- 122 N. Citrus (south Hollywood area, near Beverly Blvd. and Highland Ave.). (VI) Felt by, awakened, and frightened all in old, one-story wood and stucco building. Building creaked moderately. Moderate to loud earth noises. About 5 cm. of water sloshed from swimming pool. Hanging objects swung violently north-south. Small objects shifted and fell. Minor plaster cracks. "No chimneys damaged in this block; however, at least five or six chimneys were damaged 2 blocks south of us." Ground: Compact, level, underlain by adobe.
- 2400 N. Gower Street (Hollywood Hills). (VI) Felt by and awakened all in community; frightened all (observer in old, well-built, one and one-half story wood frame building). Building creaked strongly. Trees and bushes shook; vehicles rocked. Chimneys cracked. Some earth moved north-south. Hanging objects swung moderately north-south. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked, broke, and fell. "We noticed that plaster cracks seemed far more numerous later than just after the main shock." Ground: Gravelly, sloping.
- 6311 Yucca Street (east Hollywood area). (VI) Felt by and awakened all; general panic (observer standing on second floor of old, four-story wood frame building). Hanging objects swung violently southwest and north. Small objects shifted, overturned, and fell. Small items of furniture overturned. Plaster cracked, broke, and fell. Damage great. Ground: Compact, level.
- 806 N. Genesee Avenue (west Hollywood area). (VI) Felt by, awakened, and frightened many in community (observer lying down in old, well-built, one-story wood frame building). Chimneys cracked slightly. Plaster cracked in all corners of house; old cracks enlarged. "It seemed a miracle that the house was still standing and functioning normally after all that shaking. No major damage other than plaster cracks of which there were many." Ground: Loose soil, level.
- 433 S. Mansfield Avenue (southwest Hollywood area). (VI) Felt by and awakened all in community; frightened many (observer in old, well-built, one-story wood frame building). Loud earth noises. Trees and bushes shook; vehicles rocked. Chimneys cracked. Hanging objects swung moderately. Small objects shifted. Ground: Adobe clay, compact, level.
- 1711 N. Gramercy Place (Hollywood area). (VI) Felt by and awakened all in new, one-story wood frame building; frightened few. Building creaked. Loud, rumbling earth noises. Trees and bushes shook; vehicles rocked. "Water in the street (water main probably opened at joint). The only aftershocks felt in this building were those with a magnitude of 4 or greater." No damage. Ground: Decomposed granite, compact fill, slightly sloping.
- 219 N. Manhattan Place (south Hollywood area). (VI) Felt by and awakened many in old, well-built, two-story building; three small children on second floor were not awakened; frightened many. Building rocked east-west. Small objects shifted, overturned, and fell. Plaster cracked, broke, and fell. Chimney displaced about 0.6 cm. at about 15 cm. above roof. Ground: Level.



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1202 N. Fuller Avenue (west Hollywood area). (VI) Felt by, awakened, and frightened all in community (observer in new, well-built, two-story wood frame building). Faint earth noises. Hanging objects swung north-south. Small objects shifted, overturned, and fell. Plaster cracked and broke. "General plaster cracking; outside stairs cracked." Damage slight. Ground: Alluvial fill, compact, very gently sloping.

753 N. Las Palmas Avenue (south of Hollywood, near Beverly Blvd. and Highland Ave.). (VI) Felt by many; awakened all (observer in well-built, one-story wood frame building). Moderate earth noises. Trees and bushes shook; vehicles rocked. Ground cracked. Swimming pool lost about 0.9 m. of water. Hanging objects swung violently east-west. Small objects overturned. Refrigerator, washer, dryer, etc., shifted slightly. Wide cracks in block wall and warping cracks in backyard cement floor. Ground: Filled in, level.

6827 S. Cimarron Street (just west of Inglewood city limits). (VI) Felt by and awakened all in one-story wood frame building; frightened many. Moderate earth noises. Small objects fell. Furniture shifted. Plaster fell. Chimney cracked. "At my place some sidewalks buckled and a few trees were leaning. Most neighbors complained of a few minor cracks, mostly on outside of structure." Damage slight. Ground: Sloping.

Lincoln Park area (Holiday Inn, Marengo St. at Mission Rd., about 1 km. southwest of Lincoln Park). (VI) Awakened all and frightened many in new, seven-story reinforced concrete building. Partitions and ceilings shifted. Hanging objects swung violently. Small objects overturned. Furniture shifted. Plaster cracked in stairwell. "Power failed in hotel. All stoplights in vicinity out. Much glass broken in area stores and restaurants." Ground: Sloping.

519-1/2 N. Heliotrope Drive (south of Los Feliz district, near Los Angeles City College). (VI) Felt by, awakened, and frightened all in community (observer walking on second floor of old, well-built, two-story building; four flats). Some people ran from houses. Building shook severely. Some earth rumble heard. Vehicles rocked. Hanging objects swung violently east-west. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked. Cabinet doors and drawers all opened. Lights and phone out. "Others in the apartment building had a few things broken too. So many aftershocks, so close together, too many to count. Plaster also cracked during the aftershocks. Aftershocks were mostly sharp jerks on the house; direction east-west; some north-south shakes." Damage slight. Ground: Level.

3549 Ashwood Avenue (Mar Vista area). (VI) Felt by, awakened, and frightened all in rather old, one-story wood frame building. Loud earth noises. Ground cracked; sidewalks and streets cracked. Hanging objects swung violently in circular motion. Small objects overturned and fell. Furniture shook. Ground: Level.

3611 Stewart Avenue (Mar Vista area). (VI) Felt by and awakened all in community; frightened many; all in old, well-built, one-story wood frame building. Loud, rumbling and rolling earth noises. Minor cracks in patio cement. Many cracks in cement seams of cinder block fence. Numerous cracks in stucco foundation.

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Hanging objects swung moderately. Some small objects fell from shelves. Some lightweight furniture shifted slightly. Small hairline plaster cracks in some rooms. "Damage considered nil by construction and building safety inspectors; that is, nothing needs repairing. Motion was like that which one would feel while riding on a train, but of much greater magnitude. We also felt most of the aftershocks during the first 2 to 3 weeks; jolting motions, as if one's car were bumped in the rear by another vehicle." Ground: Compact, level.

3605 Globe Avenue (Mar Vista area). (VI) Felt by and awakened all; frightened few (observer on fifth floor of well-built, 10-story brick building). Loud earth noises. Fence broke. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked, broke, and fell. Windows cracked. Damage slight. Ground: Gravelly, steep.

4043 McLaughlin Avenue (Mar Vista area). (VI) Felt by and awakened all in community; frightened many (observer in old, one-story wood frame building). Loud earth noises. Landslides. Hanging objects swung violently. Small objects fell. Furniture broke. Windows cracked. Damage moderate.

3647 Barry Avenue (Mar Vista area). (VI) Felt by, awakened, and frightened many in community; all in well-built, one-story wood frame building. Loud earth noises. Trees and bushes shook; vehicles rocked. Books and other objects fell. Hanging objects swung violently east-west. Plaster cracked. Ground cracked. Damage slight. Ground: Gravelly, level.

3612 Grandview Boulevard (Mar Vista area). (VI) Felt by all in well-built, one-story building; awakened and frightened many in community. Moderate earth noises. Ground cracked. Water disturbed. Hanging objects swung moderately in circular direction. Damage slight. Ground: Gravelly, sloping.

3658 Centinela Avenue (Mar Vista area). (VI) Felt by and frightened all on second floor of rather old, two-story wood frame building. Building shook very strongly. Trees and bushes shook; vehicles rocked. Lights flashed. Hanging objects swung moderately. Small objects fell. Damage slight. "Horses disturbed. Store windows broke. Burglar alarms rang. Fire in restaurant at Westwood." Ground: Steep.

12546 Pacific Avenue (Mar Vista area). (VI) Felt by and awakened all; frightened few (observer sitting in poorly built, two-story wood frame building). Moderate earth noises. Trees and bushes shook; vehicles rocked. Water disturbed. Chimneys cracked. Hanging objects swung violently back and forth. Small objects fell. Furniture shifted. Plaster cracked, broke, and fell. Damage slight. Ground: Compact, level.

3333 Cabrillo Boulevard (Mar Vista area). (VI) Frightened all in well-built, one-story wood frame building. Loud earth noises. Trees and bushes shook. Chimneys cracked. Ground cracked. Hanging objects swung moderately in circular direction. Small objects shifted. Furniture overturned. Plaster cracked. Damage slight. Ground: Filled in, level.

4609 McConnell Avenue (south Mar Vista area). (VI) Felt by all in community; awakened and frightened many (observer in fairly well-built, one-story wood frame

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building). Moderate earth noises. Crack in back wall of house. Hanging objects swung violently east-west. Some small objects shifted. Plaster cracked. Damage slight. Ground: Marshy, level.

13017 Psomas Way (Mar Vista area). (VI) Felt by and awakened all in stone building; frightened few. Moderate earth noises. Chimneys cracked. Hanging objects swung moderately. Small objects fell. Plaster cracked. Damage slight. Ground: Filled in, sloping.

10567 Cushdon Avenue (Rancho Park area). (VI) Felt by, awakened, and frightened all in community (observer in old, well-built, one-story wood frame building). Building creaked loudly. Trees and bushes shook; vehicles rocked. Hanging objects swung violently north-south. Small objects shifted, overturned, and fell. Furniture shifted. Plaster cracked. Damage slight. Ground: Level.

2864 McConnell Drive (Rancho Park area). (VI) Felt by, awakened, and frightened all on second floor of partly old and new, well-built, two-story wood frame building. Building swayed strongly. Loud earth noises. Furniture rocked. Trees and bushes shook. Swimming pool lost about 0.3 m. of water. Hanging objects swung moderately. Flowerpots fell off table. A little paint popped off walls. "Could hardly stand up and move. Everything seemed covered with dust. Lights flashed in sky; thought house was on fire. Seemed strongest in east-west direction, at least that is the direction in which most objects were moved or which caused objects to be broken." Ground: Rocky, clay, compact, slightly sloping.

1908 Walcott Way (Silver Lake area). (VI) Felt by and awakened all in community; frightened many (observer on upper level of well-built, two-level wood frame building). Chimneys cracked. Heavy cement statue, weight about 113 kg., thrown from pedestal. Hanging objects swung violently east-west. Small objects shifted, overturned, and fell. Plaster cracked. Few foundation cracks. Water in toilet and pets' dishes almost emptied. "Heavy objects such as planters and pottery thrown from shelves, while lighter objects just shifted around." Damage slight. Ground: Clay, compact, steep (on top of hill).

2431 Moreno Drive (Silver Lake area). (VI) Felt by and awakened all in community; frightened many (observer lying down in 20-year-old, well-built, one-story wood frame building). Loud roar heard. Small landslide 1 block to north. Hanging objects swung violently northwest-southeast. Small objects shifted, overturned, and fell. Ground: Shale and sandstone, sloping (on hillside).

1955 Monon Street (about 1 km. northwest of Silver Lake). (VI) Felt by, awakened, and frightened all in community (observer in well-built, two-story wood frame building). Loud earth noises. Fish pool overflowed. Top 0.9 m. of chimney (across street) demolished. Hanging objects swung moderately east-west. Small area of plaster fell to floor. Damage slight. "Very slight structural damage to residences. Some plate glass broke in stores. Not much swaying motion; best described as a snappy, sharp shock." Ground: Rocky, sloping.

13141 Valley Vista Boulevard (Studio City area). (VI) Felt by, awakened, and frightened all (observer lying down in old, well-built, one-story wood frame building). Building shook in up-and-down direction. Moderate earth noises. Hanging

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objects swung violently in all directions. Small objects fell from shelves.

Plaster cracked. Ground: Sloping.

3704 Broadlawn Drive (about 0.8 km. south of Universal City, just south of Cahuenga Blvd.). (VI) Felt by and awakened all in 20-year-old, well-built, one-story wood frame building; awakened and frightened many in community. Rumbling earth noises, like approaching train. Lost about 5 cm. of water from pool. Hanging objects swung moderately north-south. Books shifted about 10 cm. Furniture shifted. Minor plaster cracks. "Felt as a severe bumping motion while southbound on San Diego Freeway about 500 feet south of interchange with Ventura Freeway." Ground: Hillside.

3145 La Suvida Drive (just southeast of Universal City, between Universal City and Hollywood Reservoir). (VI) Felt by all in old, well-built, two-story building; awakened all; frightened many. Plaster walls and ceilings cracked. Furniture shifted. Ground: Silty sand, sloping.

4843 Ledge Avenue (just northwest of Universal City). (VI) Felt by and awakened all in well-built, one-story wood frame building; frightened few. Hanging objects swung moderately northwest-southeast. Small objects fell. Furniture shifted. Plaster cracked. Damage slight. Ground: Compact, level.

1631 E. 48th Place (about 1.6 km. west of Vernon, between Vernon Ave. and Slauson Ave.). (VI) Felt by, awakened, and frightened many in community (observer sleeping in old, well-built, one-story wood frame building). Building shook. Small objects shifted, overturned, and fell. "One house in my block had chimney overturned." Ground: Compact, slightly sloping.

9422 Wilmington Avenue (Watts area). (VI) Felt by all and frightened many in community (observer sleeping in old, well-built, one-story wood frame building). Hanging objects swung moderately east-west. Small objects overturned; furniture overturned. Plaster broke. Damage slight. Ground: Level.

325 W. 118th Street (southeast Watts area). (VI) Felt by, awakened, and frightened all in old, one-story wood frame building. Loud earth noises. Trees and bushes shook. Ground cracked. Large crack in front porch. Hanging objects swung violently. Small objects shifted and fell. Furniture overturned. Plaster cracked and fell. Windows cracked. Damage moderate. Ground: Level.

8939 S. Sepulveda Boulevard (Westchester area). (VI) "In our office building, near International Airport, the third floor of building showed some damage from the main shock. The building is steel frame with shear walls at the stair and elevator wells. Extent of damage is very minor, but cracks in the shear walls appear to be deeper than the paint. We also felt aftershocks on evening of the 9th."

West Los Angeles area (May Company store, from Headlines, a May Company publication, undated). (VI) "West Los Angeles store also sustained earthquake damage to merchandise and displays in the Upper Level. The China Department had considerable breakage. Ceiling tiles around the outer edges were loosened and/or fell. The large plate glass windows in the skylight shattered to the floor. The Liquor Department suffered and the 'good spirits' leaked into the engine room on the Lower Level. The parking garage also showed some damage."