

18 March, 10:56:28*. Intensity I to III. (cont.)

Moorpark. Motion slow. Earth noises heard by few. Felt by several. Ground: Loose.

Piru. Motion rapid, lasted 40 seconds. Earth noises from SE-NW heard. Felt by several; by observer (sitting). Hanging objects swung. Ground: Loose.

Reported not felt: Acton, Agoura, Altadena, Arlight, Beverly Hills, Buellton, Casmalia, Cuyama, Frazier Park, Gaviota, Glendale, Hawthorne, Hollywood, Huntington Beach, Inglewood, Lake Hughes, Lancaster, Lompoc, Los Alamos, Los Olivos, Malibu, Manhattan Beach, Maywood, Montebello, Newberry, Pasadena, San Nicolas Island, San Pedro, Santa Maria, Santa Monica, Santa Ynez, Simi, Surf, Taft, Torrance, Tujunga, Van Nuys, Venice, Westwood, Wheeler Ridge, and Wheeler Springs.

21 March, 00:34.

San Diego. Motion rapid. Felt by observer in home.

21 March, 06:15.

Oxnard (American Crystal Sugar Company). II. Motion rocking, abrupt onset. Felt by several. Ground: Sandy loam.

22 March, 08:38:01*. Foreshock of the March 22nd series.

Epicenter $37^{\circ}41'$ north, $122^{\circ}29'$ west, west of Colma, B.

Daly City (75 Wellington Ave.). Slightly felt.

San Bruno (990-3rd Ave.). Barely noticeable.

San Francisco (1733 Geneva Ave.). IV. "Both accompanied by rather loud explosive noise. Alarmed me considerably. After the big shock, aftershocks continued very frequently. The stronger ones are almost always accompanied by sounds first. Very mild quivers and vibrations are still being constantly felt (3-24-57)."

San Francisco (1870-9th Ave.). IV. Motion rapid, lasted 1 second. Felt by all in home. Direction E-W. Windows rattled slightly. "I was lying down on the floor watching T.V. It struck with a sharp jolting motion." Ground: Compact.

San Francisco (2264-19th Ave.). III. Felt by one of three in home. Severe bump, then slight trembling. Nothing rattled.

San Francisco (2542-45th Ave.). Definite shock felt.

San Francisco (380 Chester Ave.). "Constant tremors from 08:38 on 22 March to 11:52 on 24 March. One small tremor on morning of 25 March. Every shock felt."

San Francisco (250 San Benito Way). Definite shock.

San Francisco (245 Leavenworth St.). III. Awakened observer on 6th floor.

22 March, 10:18. Not recorded on seismographs at Berkeley or San Francisco, B.

San Bruno (909-3rd Ave.). IV. One sharp jolt, like heavy object striking house.

- 22 March, 10:48:23*. Foreshock of the March 22nd series.
Epicenter $37^{\circ}40'$ north, $122^{\circ}28'$ west, southwest of Colma, B.
Berkeley (University of California). Felt on 5th floor.
Daly City (75 Wellington Ave.). IV. Strongly felt. Noise
sounded like something was wrong with furnace. Bumping,
jolting motion.
Hollister (7 miles south of). Felt by one or two persons.
Kentfield. Felt.
Oakland (Chabot Observatory). IV. Motion rapid. Frightened
few. Windows, doors, and dishes rattled. Ground: Rocky;
on hill.
Oakland (1625 Clay St., PG&E). II. Slight shock. Motion slow,
lasted 5 seconds.
San Francisco (270 McAllister St., Astor Hotel). V. "Felt rapid
vibration while in bed. Bed shook. Ceiling plaster
cracked in room 408."
San Francisco (425 Mason St., 4th floor). V. Motion rapid,
chaotic. Small objects shifted. Ground: Compact sand
and clay.
San Francisco (Sansome and Pine Sts.). IV. Motion slow, lasted
3-4 seconds. Direction N-S. Felt by many on second
floor of strongly built masonry office building (sitting);
by others outdoors (quiet); frightened few. Windows
rattled. "This shock made me feel uneasy, as it did most
others." Ground: Compact, level.
San Francisco (465 California St.). IV. Lasted 2-3 seconds.
Felt by many on 10th floor of reinforced-concrete office
building (sitting). Ground: Level.
San Francisco (95 Brookdale Ave., Sunnydale Housing Project).
IV. Motion wrenching. Direction NE-SW. "Felt each after-
shock. Same direction."
San Francisco (2 Valdez Ave., south of Mt. Davidson and north of
Ocean Ave., Westwood Park). IV. "Sounded like the world's
biggest truck passed by, but the house creaked so much I
realized it was an earthquake and not a truck."
San Francisco (Federal Office Building, Rm. 557). IV. One sharp,
vertical shock, followed by a horizontal roll. Motion
rocking, N-S, abrupt onset. Felt by and alarmed many.
Rattling of windows heard by many. Disturbed objects ob-
served by many. Desks shook in N-S direction. Ground:
Sandy.
San Francisco (Old Mint Building, 5th & Mission Sts.). IV. Two
definite jolts close together. Felt on ground floor, also
on upper floors.
San Francisco (65 Market St., Southern Pacific Building). IV.
Sharp shock. Motion rapid, first vertical, then hori-
zontal, lasted 4 seconds. Direction W-E. Felt by several
(sitting) on 10th floor of reinforced-concrete and steel
office building. Hanging objects swung W-E. Ground:
Level; filled in; building on 125-foot piles.

22 March, 10:48:23*. (cont.)

San Francisco (35th Ave. and Judah Sts.). IV. Very definitely felt.

San Francisco (2542-45th Ave.). IV. Very strongly felt. House shook.

San Francisco (1698 Grove St.). IV. Small shake at first, causing pans to rattle, then two strong sways.

San Francisco (1966-35th Ave.). IV. Definitely felt. Objects rattled.

San Francisco (1750-48th Ave.). Fairly strong.

San Francisco (Presidio). Felt.

San Francisco (1711 Judah at 22nd Ave.). "I felt the shock but heard no noises. Thought it was the Navy. My next door neighbor said she heard earth noises."

San Francisco (133 Beulah St., off Stanyan, near Kezar Stadium). Felt.

San Francisco (1733 Geneva Ave.). Felt.

Santa Cruz. Felt.

22 March, 11:44:21*. Principal shock of the March 22nd series.

Epicenter $37^{\circ}40'$ north, $122^{\circ}29'$ west, east of Mussel Rock, B.

This was the strongest shock felt in the San Francisco area since 1906. Felt land area was approximately 12,000 square miles. (See map, page 195.) Magnitude 5.3. Maximum intensity VII. No lives were lost; about forty minor injuries reported. Damage of all types was estimated by engineers to be in the neighborhood of one million dollars. Principal building damage occurred to one- and two-story wood-frame houses in the Westlake Palisades tract west of Daly City along the ocean. Several dwellings in this tract sustained structural damage. The 1,600,000-gallon reinforced-concrete Westlake Palisades water reservoir (partly underground) had a 4-foot-long crack on one side extending upward from the ground. The largest of several landslides completely blocked State Highway No. 1 near Mussel Rock, and the shoulder of the highway pavement was extensively cracked. Building and dwelling damage in San Francisco was slight and consisted mainly of cracked plaster and broken windows. The road pavement (on unconsolidated soil and fill) along the southern edge of Lake Merced sloughed off into the lake, and both ends of a 200-foot-long pedestrian bridge collapsed. It was reported 2,395 emergency calls were received by plumbers, with 1,500 coming from the home areas south of Sloat Boulevard and north of the Colma cemeteries. There were 856 water heaters damaged, 125 of which required replacement; 62 toilets replaced; 175 wash basins damaged or fractured; 245 toilet tank covers broken; 173 boiler steam lines fractured or broken; 97 broken sewer lines; 422 fractured, broken or bent gas supply lines. At the Colma

22 March, 11:44:21*. (cont.)

cemeteries some headstones fell and many were twisted. About forty-four brick chimneys at Daly City were pulled down by the fire department up to 26 March.

All strong-motion seismographs in San Francisco, San Jose, and Oakland were operated by this shock, also the instrument located on the Carquinez Bridge at Martinez.

One foreshock and six aftershocks of magnitude $3\frac{1}{2}$ or higher were recorded on 22 and 23 March. Numerous smaller aftershocks were recorded.

22 March, 10:48:23*	Magnitude 3.8
13:07:47*	3.6
13:18:29*	3.8
15:14:35*	4.4
16:26:55*	4.0

23 March, 00:13:48*	4.2
04:54:33*	3.8

Intensity VII:

- Colma (Holy Cross Cemetery). Motion rapid, violent. Direction E-W. Loud earth noises heard. Plaster, windows, and walls cracked in old stone building. "The movement of monuments in some sections of this cemetery reflect the possibility that there was more than one type of earth motion. Some monuments were turned as much as 45° on a vertical axis on their stone base but were not dislodged, while other monuments were moved on their base as much as 6 inches in a westerly direction. Other monuments were toppled from the base." Ground: Sandy loam, sloping.
- Colma (Woodlawn Cemetery). Gable end of dormer fell. Tombstones shifted at few places; urn toppled.
- Colma (Eternal Home Cemetery). Tombstone toppled.
- Colma (Salem Memorial Park Cemetery). Brick chimney damaged.
- Colma (7778 Mission St.). Motion rapid, lasted 8 seconds. Direction E-W. Loud earth noises heard. Small objects and furnishings shifted. Plaster cracked. Twisting and fall of monuments, vases, and statue. Retaining wall shifted 3 inches toward E. Ground: Compact, level.
- Colma (Garden Village, 25 Village Lane). Motion rapid, lasted about 15 seconds. Direction N. Loud earth noises heard. Small and heavy objects shifted; heavy furniture moved 1-2 inches toward N. Dishes and furniture broke. Ground: Level.
- Colma (Broadmoor Village, 956 Foothill Dr.). VI. Motion rapid, lasted 30-45 seconds. Direction S-N. Loud earth noises heard. Small objects and furnishings shifted. Dishes

22 March, 11:44:21*. Intensity VII. (cont.)

broke. Small amount of plaster cracking. Damage slight.
Ground: Soil, compact, sloping.

Colma (536 B St., 3 miles east of Westlake area). VI. All in home very frightened and got under table for protection. Mirror and two pictures fell; canned goods fell in garage. Child awakened. Aftershocks felt for three days; none felt on 25th. Ground: Soil; formerly vegetable gardens.

Colma (Broadmoor Village, 835 Thornhill Dr.). VI. Motion rapid, lasted about 1 minute. Direction N-S. Loud earth noises heard. Small objects and furnishings shifted. Walls cracked. Damage slight. Ground: Clay, compact, sloping.

Colma (820-81st St.). VI. Motion rapid, increasing then decreasing, violent shaking. Direction NE-SW. Faint earth noises heard. Stove, tables, cabinets, etc., shifted. Dishes broke. Damage slight. Ground: Sloping, filled in.

Colma (464 C St.). VI. Motion rapid, lasted 28 seconds. Direction NE. Moderate earth noises heard. Small objects shifted. Dishes broke. Plaster cracked. Damage slight. Ground: Soil, compact.

Colma (Broadmoor Village, 731 Thornhill Dr.). VI. Motion slow, lasted 2-3 minutes. Small objects and furnishings shifted. Walls cracked. Damage slight. Ground: Soil, compact, sloping.

Colma (Broadmoor Village, 1072 Gilman Dr.). VI. Motion rapid, lasted about 30 seconds. Small and large objects shifted. Dishes broke. Damage slight. Ground: Soil, steep.

Colma (Broadmoor Village, 439-89th St.). V. Motion rapid. Loud earth noises heard. Small objects shifted. Dishes broke. Ground: Soil, compact, level.

Colma (Thornhill Dr.). V. Motion rapid, lasted about 10 seconds. "Was just parking the car. Car swayed E-W. Earth noises sounded like airplane overhead."

Colma (220 Castenada). V. Small objects and furnishings shifted.

Daly City, Westlake, and Westlake Palisades areas. Press reported damage in these areas was estimated by the city manager as follows: Personal belongings, \$400,000; homes in Westlake Palisades, \$62,500; Westlake Shopping Center, \$69,000. Of the 4,000 homes in the Westlake and Westlake Palisades areas, 200 were damaged, 20 seriously. It was reported the average cost of repairs should not exceed \$200, with the exception of the homes sustaining structural damage in the Westlake Palisades tract. It was reported forty-four brick chimneys were pulled down in Daly City by the fire department and that many more were probably damaged. The Westlake Reservoir, 1,600,000-gallon, 175 feet long, 108 feet wide, 23 feet deep (half submerged in the ground) had a 4-foot-long crack, extending upward from the ground, in the side

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of the concrete tank. The tank was to be drained to determine the extent of subsurface cracking.

Daly City (190 Irvington St.). Motion rapid, lasted 5-6 seconds. Loud earth noises heard. Small objects and furnishings shifted. Dishes, windows, and furniture broke. Walls cracked. Damage considerable to masonry. Ground: Soil, level.

Daly City (300 Templeton Ave.). Motion rapid, lasted about 1 minute. Direction E-W. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster and walls cracked. Damage considerable to brick and masonry in front and rear of house. "Felt like riding the waves." Ground: Sloping, filled in over rock.

Daly City (730 Templeton Ave.). Motion rapid, lasted about 10 seconds. Loud earth noises heard. Small objects and furnishings shifted. Dishes and furniture broke. Plaster, walls, and fireplace cracked. Damage considerable to brick, masonry, and concrete. Ground: Rocky, steep.

Daly City (325 Knowles Ave.). Motion rapid, lasted 35 seconds. Loud earth noises heard. Small objects and furnishings shifted. Dishes and windows broke. Plaster, windows, and walls cracked. Damage considerable to concrete. Ground: Compact, level.

Daly City (256 Citrus Ave.). Motion rapid, vertical, then E. Loud earth noises heard. Small objects and furnishings shifted. Plaster, walls, and ground cracked. Damage considerable to concrete. "For the past two years I have heard earth noises, and as time went on the acoustics in my house seemed to change. The floors used to give a little as we walked across them, making stoves, etc., rattle. Now the floors seem to be more solid and there's no more rattling, not even when cars go by. Before the big shock I felt very slight up-and-down motions like one would feel on a boat. Very loud noises heard during the big shock, and there have been several loud rumbles since. There still seems to be a throbbing sound almost constantly."

Daly City (147 Woodrow). Motion rapid, long duration (10 minutes). Direction E-W. Loud earth noises heard. Small objects and furnishings shifted. Dishes and furniture broke. Plaster, windows and walls cracked. Damage great to wood and concrete. Ground: Soil, compact, level.

Daly City (260 Winchester). Motion rapid, long duration (about 10 minutes). Direction N-S. Loud earth noises heard. Small objects and furnishings shifted. Dishes and furniture broke. Plaster and walls cracked. Damage considerable (about \$250). Ground: Soil, sloping.

Daly City (688 Florence St.). Motion rapid. Small objects and furnishings shifted. Dishes broke. Plaster and walls

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cracked. Damage considerable to masonry and concrete.
Ground: Soil, sloping.

Daly City (6748 Mission St., at Westlake). Grocery store nearby had everything on floor. "Our basement prevented cracks--not so in neighborhood." Ground: Rocky, clay, sloping toward west.

Daly City (672 Hanover St.). Motion rapid, lasted 10 seconds. Direction SW. Loud earth noises heard. Small objects and furnishings shifted. Dishes, windows, and furniture broke. Plaster and walls cracked. Damage considerable. Ground: Soil.

Daly City, near (28 Cassandra Court). Motion rapid and violent, long duration. Direction NE and up and down. Loud earth noises heard. Small objects, lamps, and furnishings shifted. Dishes and wall pictures broke. Plaster, walls, and front stairs cracked. Ripped sink from kitchen wall (slight). Damage considerable. Ground: Soil, loose.

Daly City (56 Miriam St.). Motion rapid, lasted about 15 minutes, including smaller shocks before and after. Direction SW. Very loud earth noises heard. Small objects and furnishings shifted. Dishes and windows broke. Plaster, windows, and walls cracked. Chimney fell. Damage slight. Ground: Soil, compact.

Daly City (266 Westridge Ave., Westlake). Front of brick fireplace thrown out.

Daly City (272 Westridge Ave., Westlake). Evidence of compression noted on north side of Westridge Avenue; on south side, sidewalk and curb damage due to compression.

Daly City (277 Westridge Ave., Westlake). Observer fainted. Motion rapid. Loud earth noises heard. Furnishings shifted. Plaster, walls, and chimneys cracked. Damage considerable to brick and masonry. Ground: Sloping, filled in.

Daly City (20 Crestview Ave., Westlake). Motion rapid, lasted 30-40 seconds. Direction NE. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Damage considerable. Ground: Rocky soil, level.

Daly City (90 Westlawn Ave., Westlake). Motion started slow, then increased. Direction E-W and vertical. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster, walls, and ground cracked. Damage considerable to masonry, brick, and concrete. Ground: Compact.

Daly City (1320 So. Mayfair, Westlake). Plaster and walls cracked. Concrete floor of garage had cracks 1 inch wide and 12-20 feet long. Dishes broke. Damage slight. Ground: Soil, compact, sloping.

Daly City (Westmoor Ave. and Morningside Dr., Westlake). Motion rapid. Direction N. Loud earth noises heard. Plaster, windows, walls, chimneys, and ground cracked. Damage considerable. Ground: Soil, sloping.

22 March, 11:44:21*. Intensity VII. (cont.)

Daly City (39 Park Manor Dr., Westlake). Motion rapid, rocking and rolling in all directions, lasted about 1 minute. Extremely loud earth noises heard. Appliances, stove, and furniture shifted. Threw many objects out of closets onto floor. Dishes and furniture broke. Plaster and ground cracked. Moved house about 1 inch east. Damage slight to considerable to concrete (not estimated yet). Ground: Almost level.

Daly City (south end of Westlake tract). Observer working (carpenter). Motion rapid, first jolt lasted about 30 seconds. Direction N-S. Loud earth noises heard. Plaster, windows, walls, chimneys, and ground cracked. Fireplace chimneys fell. Damage considerable to wood, brick, masonry, and concrete. Ground: Level, sloping, filled in.

Daly City (88 Garden Grove Dr.). Plaster, walls, and chimney cracked. Dishes broke. Damage considerable to concrete and stucco. Ground: Compact.

Daly City (113 Palisades Dr., Westlake Palisades). Probably the most severely damaged home. Ground movements are believed to have accentuated building damage.

Daly City (127 Palisades Dr., Westlake Palisades). Two-inch separation. Cracks also on other side of house.

Daly City (124 Morningside Dr., Westlake Palisades). Motion rapid at first then slow. Shock came from all directions. Loud earth noises heard. Small and large objects shifted. Dishes, windows, and furniture broke. Plaster, windows, walls, chimneys, and ground cracked. Twisting and fall of chimneys, columns, and monuments. Damage considerable to brick, masonry, and concrete. Ground: Steep.

Daly City (52 Crestview Ave., Westlake Palisades). Motion rapid, violent, side to side and up and down. Direction seemed to be E-W and up and down. Loud earth noises heard. Piano, refrigerator, T.V., radio, dishes (everything) shifted. Dishes broke. Plaster and ground cracked. Garage floor and exterior stucco walls cracked. "Most damage was done to the front of house, where garage and window openings prevent diagonal bracing. Direction of wall E-W (approx.). Stucco cracked at corners of all openings." Damage considerable to stucco. Ground: Clay, sand, and loam; east side level, west side mostly cut.

Daly City (51 Avalon Dr., Westlake Palisades). Motion rapid. Direction E. Very loud earth noises heard. Small objects and furnishings shifted. Plaster and walls cracked, and outside stairs split. Damage considerable. Ground: Sandy.

Daly City (93 Seacliff Ave., Westlake Palisades). Motion very rapid, lasted 3-4 minutes. Direction SW. Loud earth noises heard. Small objects and furnishings shifted. Dishes and furniture broke. Plaster, walls, chimneys, and ground cracked. Damage considerable to wood and concrete. Ground: Soil, level, steep.

22 March, 11:44:21*. Intensity VII. (cont.)

Daly City (56 Morningside Dr., Westlake Palisades.). Motion rapid. Direction N-S. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster, walls, and ground cracked. Damage considerable. Ground: Soil, compact, sloping.

INTENSITY VI - Daly City

Daly City (Penny's Store, 70 Westlake Court). Brick veneer on first story cracked (poor anchorage to back wall). Leg on cooling tower broke.

Daly City (538 Crocker Ave.). Motion rapid. Loud earth noises heard. Felt by observer indoors. Small objects shifted. Dishes broke. Plaster on ceilings cracked. Fireplace pulled from wall at joint. Damage slight: Glassware, dishes, etc., \$50; ceiling repairs, \$100; fallen objects, \$50. Ground: Sandy soil, steep.

Daly City (6137 Mission St.). Motion rapid, lasted about 1½ minutes. Direction N-S. Loud earth noises heard. Felt by observer indoors. Furniture shifted. Plaster, windows, and walls cracked. Both front side corners of office building cracked. Damage slight: Plaster cracks necessitate painting entire office, \$300; repairs to outside cracks, \$100. Ground: Compact, sandy.

Daly City Schools:

Jefferson Elementary School District:

Colma (formerly Market St.). Marked twisting and splitting of 8 x 8 wood posts carrying roof beams in one wing (NE). Similar framing in other wings not affected. Further study advisable. Few light fixtures dislodged; minor stucco and plaster cracks.

Franklin. Slight cracking in slabs.

Garden Village. Six glass panes broken in E-W walls. Acoustic tile loosened. Small stucco cracks in usual places and two rather large cracks in a foundation wall which retains about an 8-foot depth of fill.

Jefferson. Slight cracking in slabs.

Thornton. Patches of plaster fell from wood lath. Stucco cracks enlarged.

Westlake. Five panes of glass broken in E-W wall of north wing. None broke in two other similar wings. Slight stucco cracking.

Woodrow Wilson. Few small stucco cracks in usual places.

Jefferson Union High School: Patches of plaster fell from wood lath; light fixtures thrown down; cracks opened in plaster walls; brick chimney cracked (removal recommended). Gym and Pool: Rod bracing in roof showed signs of marked movement. Some rods loosened and ridge strut out of line. Water storage tank saddle in boiler

22 March, 11:44:21*. Intensity VII. (cont.)

INTENSITY VI - Daly City

room broke. Roof tile appeared to have shifted.
Cafeteria: Considerable movement between concrete frames and adjacent floor on west side. Base mold and tile damaged. Cement stucco broke off from edge of landing of concrete stairway. Few small cracks in interior plaster.

- Westmoor. Bricks fell from work under construction.
- Daly City (161 Crestwood Dr.). Dishes broke. Plaster cracked slightly. Chimney and water heater twisted. Damage slight. Ground: Soil.
- Daly City (432 Bellevue Ave.). Dishes broke. Plaster cracked. Damage slight to considerable. Ground: Sloping.
- Daly City (365 Winchester St., County Line). Dishes broke. Damage slight. Ground: Compact sand, sloping.
- Daly City (43 Royce Way). Dishes broke. Plaster cracked. Damage slight to concrete. Ground: Sloping.
- Daly City (65 Theta Ave.). Dishes broke. Plaster cracked. Damage slight. Ground: Compact.
- Daly City (137 Bismark St.). Dishes broke. Walls cracked. Damage slight. Ground: Loose, terraced.
- Daly City (154 Wyandette). Dishes broke. Plaster and walls cracked. Damage slight. Ground: Soil, compact, level.
- Daly City (27 Woodrow St.). Dishes broke. Plaster and walls cracked. Damage slight. Ground: Soil.
- Daly City (72 Wilson St.). Dishes broke. Plaster cracked. Damage slight.
- Daly City (227 Winchester St.). Dishes and furniture broke. Plaster and walls cracked. Damage slight (\$20). Ground: Soil, level.
- Daly City (3242 San Jose Ave.). Dishes broke. Plaster and walls cracked. Fireplace pulled away from wall. Few exterior hairline cracks. Bed, dressers, stove, and refrigerator shifted. Damage slight. Ground: Level, compact.
- Daly City (268 Evergreen Ave.). Moved wood stove 3 inches. Dishes broke. Windows cracked. Damage slight. Ground: Soil, loose, level.
- Daly City (91 San Joaquin). Dishes broke. Plaster cracked. Everything shifted. Slight stucco cracks. Damage slight. Ground: Soil, slightly sloping.
- Daly City (742 Templeton Ave.). Stove and refrigerator shifted about 2 inches. Dishes broke. Plaster and walls cracked. Ceiling and stucco cracked. Plaster fell. Damage slight. Ground: Rocky soil, compact, steep (hillside of San Bruno Mountains).
- Daly City (231 Acton St.). Knickknacks broke. Plaster cracked. Damage slight. Ground: Compact, sloping.

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INTENSITY VI - Daly City

- Daly City (6275 Mission St.). Dishes broke. Plaster and walls cracked. Heavy twisting and wrenching. Damage slight. Ground: Soil.
- Daly City (old Daly City business district). Dishes broke. Interior concrete walls and plaster cracked. Ground: Soil, compact.
- Daly City (884 Templeton Ave.). Dishes broke. Plaster, walls, and chimneys cracked. Damage slight. Ground: Soil, sand, sloping.
- Daly City (145 School St.). Dishes broke. Heavier furniture shifted a little. Many exterior plaster cracks on apartment building. Damage slight (\$20).
- Daly City (61 Fairway Dr.). Dishes broke. Plaster and walls cracked. Damage slight to concrete and stucco. Ground: Filled in.
- Daly City (606 San Diego Ave.). Dishes, windows, and furniture broke. Plaster cracked. Damage slight. Ground: Soil.
- Daly City (56 Market St. W). Dishes broke. Plaster and walls cracked. Damage slight to concrete. Ground: Compact, level.
- Daly City (488 Willits St., near Highway 101). Stove moved 2 inches. Vases broke. Plaster cracked; small exterior stucco cracks. Damage slight to concrete. Ground: Sandy, sloping.
- Daly City (748 Beechwood Dr.). Water heater pulled away from pipes. No cracks; no breakage. Damage slight.
- Daly City (1209 Mayfair, Westlake). Few dishes broke. Wallboard cracked slightly. Damage slight. Ground: Compact soil, sloping; cut, not fill.
- Daly City (234 No. Mayfair, Westlake). Dishes and windows broke. Plaster, windows, and walls cracked. Damage slight to brick, masonry, and concrete. Ground: Soil, level.
- Daly City (34 Cliffside Dr., Westlake). Dishes broke. Slight crack in one bedroom. Damage slight. Ground: Loose, level.
- Daly City (23 Westmont Dr., Westlake). Dishes broke. Plaster, walls, and ground cracked. Damage slight. Ground: Soil, sloping.
- Daly City (54 Wilshire Ave., Westlake). Dishes broke. Plaster and exterior wall cracked. Damage slight. Ground: Soil, level.
- Daly City (71 Baldwin Ave., Westlake). Dishes broke. Plaster and walls cracked. Pipes twisted. Damage slight. Ground: Filled in.
- Daly City (36 Oakmont Dr., Westlake). Dishes broke. Stove moved. Damage slight to concrete. Ground: Compact, sloping.

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INTENSITY VI - Daly City

- Daly City (791 So. Mayfair, Westlake). Dishes broke. Walls cracked. Damage slight. Ground: Soil, compact, sloping.
- Daly City (115 Fairway Dr., Westlake). Dishes broke. Plaster and walls cracked. Damage slight. Ground: Sloping.
- Daly City (691 So. Mayfair, Westlake). Dishes and one window broke. Plaster cracked. Damage slight. Ground: Compact, sloping; house faces Lake Merced.
- Daly City (67 Lake Vista, Westlake). Dishes broke. Plaster and walls cracked. Damage little more than slight. Ground: Soil, filled in.
- Daly City (91 Garden Grove, Westlake). Plaster and walls cracked. Damage slight. Ground: Soil, compact, level.
- Daly City (657 Stonyford Dr.). Cracks around fireplace. Water heater pipes broke. Damage slight. Ground: Soil, clay, sloping.
- Daly City (50 Lakewood Dr.). Dishes broke. Damage slight. Ground: Soil, slightly sloping, filled in.
- Daly City (111 So. Mayfair). Not much breakage. Stove, table, and refrigerator moved. Pictures askew but glass not broken.
- Daly City (181 Park Plaza Dr.). Dishes broke. Moved range 4 inches from wall. Damage slight.
- Daly City (382 Skyline Dr., Westlake Palisades). Dishes broke. Plaster and ground cracked. Damage considerable. Ground: Sandy, sloping.
- Daly City (15 Seacliff Ave., Westlake Palisades). Dishes broke. Three cracks in sheetrock walls. Damage slight. Ground: Rocky soil, steep.

INTENSITY V - Daly City

- Daly City (160 Northgate). Damage slight. (No details.) Ground: Soil, sloping.
- Daly City (47 Fairview Ave.). No damage. Ground: Sloping, compact.
- Daly City (Television Peak, KRON). "No damage as far as I know on Mt. San Bruno."
- Daly City (231 Station Ave.). Dishes broke. Damage slight. Ground: Soil, level.
- Daly City (57 Muirwood Dr.). No damage. "Most aftershocks felt like a big truck hitting west end of house and sounded like a loud blast. Motion E-W." Ground: Rocky, steep.
- Daly City (803 Ellis Dr.). Dishes broke. Ground: Soil, slight north slope.
- Daly City (83 Fairlawn Ave., Westlake). Dishes broke. Damage slight. Ground: Soil, compact, sloping.

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INTENSITY V - Daly City

- Daly City (340 Heathcliff, Westview; 3 miles south of Westlake on Skyline Blvd.). Damage slight. (No details.)
- Daly City (69 Cliffside Dr., Westlake). Dishes and bric-a-brac broke. Damage slight. Ground: Soil, compact.
- Daly City (55 Lake Forest Dr., Westlake). Paint cracked slightly - Damage slight. Ground: Soil.
- Daly City (1076 Wildwood Ave., Westlake). Dishes broke. Damage slight. Ground: Compact, sloping.
- Daly City (Olympic Section, 147 Glenwood Ave.). Dishes broke. Damage very slight. Ground: Sandy soil, loose.
- Daly City (60 Lynwood Dr., Westlake). Dishes broke. Damage slight. Ground: Level, sandy, filled in.
- Daly City (56 Oakmont Dr., Westlake). One small dish and a few fruit jars broke. Window broke (previously cracked). Damage slight. Ground: Soil, level.
- Daly City (115 Crestwood Dr., Westlake). Coffee warmer broke. Ground: Sloping.
- Daly City (625 Larchmont Dr., near Westlake). Dishes and one bottle broke. Ground: Soil, level.
- Daly City (689 Templeton Ave.). Nothing shifted or fell. No damage.

Mussel Rock, near (on State Highway No. 1). Landslide (loosely consolidated sandstone and sand) completely blocked the road at Thornton Bluffs, and highway was extensively cracked along shoulder. Two automobiles were partially buried by the slide. This was reported to be the worst of ten slides between Edgemar and Westlake. Estimated cost of removing dirt and repairing road, \$100,000.

San Bruno. Press reported gas main serving Rollingwood tract broke. Juke box toppled at the Rollingwood Kindergarten. Huge plate glass window completely shattered and furniture overturned at the San Bruno Maple Shop (intersection of El Camino Real and San Mateo Ave.). Several store windows broke. Tile shaken loose at Womacks Department Store on San Mateo Avenue. Tons of canned goods fell at Junipero Serra and Sneath Lane.

San Bruno (San Francisco International Airport). Underground pipe leaks and breaks in at least six locations. Damage to concrete walls and roof bracing system of one hangar. Airport located on former mud flats.

San Bruno (San Francisco International Airport). VI. Motion rapid, violent. Direction E-W. Small objects shifted. Plaster cracked. Damage slight to considerable. Ground: Filled in.

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San Bruno (San Francisco International Airport). VI. Motion rapid, lasted 15 seconds. Direction N-S. Loud earth noises heard. Small objects and furnishings shifted. Plaster cracked. Damage slight to masonry. Ground: Filled in.

San Bruno (2160 Fleetwood Dr.). Small objects and furnishings shifted. Dishes broke. Plaster, walls, and ground cracked. Chimney twisted and fell. House twisted and moved about 1/2 inch on foundation. Stucco off house at corner. Damage considerable to brick and masonry. Ground: Claylike soil, steep, filled in.

San Bruno (2660 Rollingwood Dr.). "All furniture moved; pictures, etc., down. Minor dish breakage. No actual damage to house. As to yard, upper backyard leading from telephone pole was all split open. Sidewalks all cracked and fence twisted. Back corner of yard is fill; behind us on slope (terraced with railroad ties) there was no damage. Backyard itself is not supposed to be on fill. Across the street (2651 Rollingwood) chimney broke and most all dishes, etc., broke. Other homes around us had hardly anything broken. Damage considerable to concrete in backyard."

San Bruno (2611 Rollingwood Dr.). Motion both rapid and slow. Direction E-W and up and down. Moderate earth noises heard. Small objects and furnishings shifted. Dishes broke. Exterior plaster and cement walks cracked. Tore hot water heater loose. Damage slight. Ground: Compact, sloping, filled in.

San Bruno (2485 Rollingwood Dr.). Motion rapid, lasted 1 minute or more. Direction W-E. Loud earth noises heard. Small objects and furnishings shifted. Dishes and glass broke. Ground cracked. Damage slight. Ground: Soil, compact, steep.

San Bruno (2031 Willow Way, Rollingwood). Motion rapid, lasted 20-30 seconds. Moderate (audible indoors above general household noises) earth noises heard. Small objects and furnishings shifted slightly. Exterior stucco and concrete walks cracked. Damage slight. Ground: Soil, filled in; steep slopes behind and across street.

San Bruno (2761 Plymouth Way). Motion rapid. Moderate earth noises heard. Small objects, furnishings, and water heater shifted. Plaster, chimneys, and ground cracked. Damage considerable to brick and masonry. Ground: Soil, gradual slope.

San Bruno (317 Acacia Ave.). Motion rapid. Direction N. Furnishings shifted. Dishes broke. Plaster, windows, and wall cracked. Chimney fell. Damage considerable. Ground: Soil, compact, level.

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INTENSITY VI - San Bruno

San Bruno Schools:

San Bruno Park School District:

BelleAir. Plaster and stucco cracked at usual places, particularly noticeable around doors. Wood trim moved considerably. Acoustical tile loosened.

Edgemont. Plaster cracks. Eight small panes of plate glass cracked.

El Crystal. Slight plaster and stucco cracks.

Elm. Patches of plaster fell from wood lath.

Northbrae. Slight cracks in plaster and stucco.

Parkside. Marked damage to plaster walls, particularly proscenium, in M.P. room. Considerable plaster dust down from ceilings. Considerable movement of precast concrete units indicated. Further study advisable.

San Bruno. Motion rapid. Loud earth noises heard by many. Felt by and frightened all in community. Windows, doors, and dishes rattled. Trees, bushes shaken slightly. Small objects and furnishings shifted; vases, etc., small objects, and furniture overturned. Ground: Soil.

San Bruno (2520 Heather Lane, Rollingwood). Motion rapid, lasted 1 minute. Direction ENE and up and down. Loud cracking earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster, walls, and stucco cracked. Damage slight to concrete and stucco. Ground: Soil, compact; on rolling hills.

San Bruno (near Southern Pacific Railway Station). Motion rapid, lasted 15-20 seconds. Furnishings shifted; cabinets rocked. Dishes broke; two water pipes broke. Plaster cracked. Damage slight. Ground: Soil, loose, level.

San Bruno (1092 Jenevein Ave.). Motion rapid. Loud earth noises heard. Small objects and furnishings shifted; lamps overturned. Dishes broke. Furniture shifted. Plaster on walls and ceiling cracked. Damage slight. Ground: Soil, compact, level.

San Bruno (2420 Trenton Dr.). Motion rapid, seemed from all directions and up and down. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Walls and ground cracked. Damage slight. Ground: Soil, compact, level and steep (Crestmoor Park No. 1).

San Bruno (1841 Donner Ave.). Motion rapid, lasted 25-30 seconds. Direction SW-NE. Loud earth noises heard. Small objects and furnishings shifted 2-3 inches. Dishes broke. Ground: Soil, sloping.

San Bruno (37 Lexington Ave.). Motion rapid, lasted 30 seconds. Direction NW. Moderate earth noises heard. Furnishings shifted. Large mirror broke. Walls cracked. Damage slight. Ground: Soil, compact, level.

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INTENSITY VI - San Bruno

- San Bruno (140 Palm Court). Motion rapid, seemed from all directions. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster, walls, and ground cracked. Damage slight. Ground: Rocky, level.
- San Bruno (2221 Valleywood Dr.). Motion rapid, lasted 20-30 seconds. Direction N. Loud earth noises heard. Small objects and furnishings shifted. Plaster cracked. Damage slight.
- San Bruno (1723 Hickory Ave., Mills Park). Motion rapid, lasted long enough for observer to go upstairs and downstairs. Loud earth noises heard. Small objects and furnishings shifted. Dishes, lamps, and water heater broke. Ground: Clay, sloping.
- San Bruno (420 Hawthorne Ave.). Motion slow, lasted 30 seconds. Faint earth noises heard. Small objects and furnishings shifted. Bookcase fell and broke pottery and bicycle. Ground: Sloping, filled in.
- San Bruno (2391 Valleywood Dr., Rollingwood). Motion rapid, lasted 20-30 seconds. Direction E-W. Earth noises masked by noise of falling objects. Small objects and furnishings shifted. Dishes and lamps broke. Plaster cracked. Water in sink (half full) splashed out considerably (E-W). Damage very slight. Ground: Soil, compact, sloping.
- San Bruno (504 Sylvan). Motion rapid, lasted at least 30 seconds. Direction NE. Moderate earth noises heard. Small objects and furnishings shifted. Dishes broke. Bookcase overturned. Damage slight. Ground: Soil, compact, level.
- San Bruno (San Bruno Drive at Angus). Motion shuddering, jarring, and up and down. Direction W-E. Moderate rumbling earth noises heard. Small objects and furnishings shifted. Few dishes and windows broke. Plaster cracked. Damage slight. Ground: Sandy soil, level. "Was in automobile on San Mateo Avenue (main street of San Bruno). Felt as a jarring motion from W-E and up and down, then slight rocking, lasting few seconds. Buildings appeared to be bouncing. Sounds ridiculous but that's the way they looked to us."
- San Bruno (Crestmoor Park No. 2). Motion rapid, lasted 6-10 seconds. Direction NE. Loud earth noises heard. Small objects and furnishings shifted. Dishes broke. Plaster cracked. Damage slight. Ground: Sloping.
- San Bruno (451 Chestnut Ave.). Motion rapid, lasted about 3 minutes. Direction N. Loud earth noises heard. Furnishings shifted. Dishes broke. Plaster cracked. Damage slight (about \$100). Ground: Compact, sloping.
- San Bruno (711-7th Ave.). Motion slow, then rapid, lasted 30-60 seconds. Direction SE-NW. Loud earth noises heard. Small

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INTENSITY VI - San Bruno

- objects shifted. Dishes broke. Ground: Soil, compact, level.
- San Bruno (583 Easton Ave.). Motion rapid, lasted about 25 seconds. Direction N. Loud earth noises heard. Small objects shifted. Dishes broke. Damage about \$100. Ground: Soil.
- San Bruno (500 Beech Ave.). Motion rapid, lasted 3-4 seconds. Direction E-W. Loud earth noises heard. Small objects and furnishings shifted. Dishes and one lamp broke. Ground: Soil, compact, sloping.
- San Bruno (723 Acacia Ave.). Jolt from W-E, lasted about 5 seconds. Moderate earth noises heard. Small objects shifted. Small plaster cracks. Damage slight. "Different motion than the shock of 1906. Would have caused much damage had it lasted longer." Ground: Compact, clay, sloping.

INTENSITY V - San Bruno

- San Bruno (515 Hazel). Dishes broke. Soil, compact, level.
- San Bruno (1781 Jenevein Ave.). Dishes broke. Soil, compact, sloping.
- San Bruno (703 Magnolia Ave.). Few small objects shifted; one trophy broke. Ground: Compact, level; concrete slab house.
- San Bruno (909-3rd Ave.). Dishes broke. Ground: Level; 1 foot topsoil fill.
- San Bruno (160 De Soto Way). Small objects shifted.
- San Bruno (2233 Rollingwood Dr.). Small objects shifted.
- San Bruno (560 Cedar Ave.). Dishes broke. Ground: Soil, level.
- San Bruno (743 Pepper Dr.). Small objects shifted. Ground: Clay, sandy.
- San Bruno (1052 Montgomery Ave.). Small objects shifted. Ground: Soil, compact, level.

San Francisco (Lake Merced and Harding Municipal Park area, southwest section of San Francisco). Highway skirting the south edge of Lake Merced cracked and sloughed off into the lake. Harding Park access road damaged. Both ends of a 200-foot-long pedestrian bridge collapsed. Sewer and gas lines to the Harding Park Golf Course broke.

INTENSITY VI - San Francisco

San Francisco. Press reported buildings in San Francisco were severely shaken, but no serious damage occurred. The State Building at Folk and McAllister Streets had numerous plaster cracks, also the California Building at 515 Van Ness Avenue,

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INTENSITY VI - San Francisco

where a light fixture fell on the third floor. Plaster fell from walls and ceilings in the Hall of Justice. Walls cracked and a skylight broke at the City Hall. The Presidio branch library at Sacramento near Baker was closed due to damage. The McCreery branch (built about 1903) on 16th near Market was condemned. The brick building was declared structurally unsafe. Repairs to the Presidio branch included chimney top, hanging light fixture supports, and plaster cracks. Several other branch libraries suffered damage, including the Ocean View branch at 111 Broad Street which was closed for five days. Steel book racks in the Main Library at the Civic Center moved during the shock, spewing books on the floor, but no damage was done to the building. No serious damage was reported in any of the city's hospitals. At the Mary's Help Hospital, 145 Guerrero Street, plaster was cracked and loosened on the upper floors. Loose masonry or falling mortar on upper floors caused the police to rope off areas at Post Street and Grant Avenue, at 140 Sansome Street, and at 625 Polk Street. The Seventh Day Adventist Church at 2897 California Street reported two long cracks in the steeple. Chimney fell at 3977 Clay Street and one was badly damaged at 420 Frederick Street. At Stonestown many windows were broken in one of the large apartment buildings. From the top floor of one of the 13-story Parkmerced Towers apartment building, a resident reported the building "rocked and rolled, knocked all the lamps down, and cracked all the plastering. The house looks like a wreck." It was reported the top floor of St. Anne's School, 1330-14th Ave., was badly damaged. Glass was broken in more than 400 city-owned street lights, mostly along Great Highway, Sunset Boulevard, Sloat Boulevard, and Junipero Serra Boulevard. The Pacific Gas and Electric Company had similar damage in the Richmond district. The PG&E's biggest chore was reconnecting gas water heaters. Most plumbing damage occurred west of Twin Peaks, generally in the area along Nineteenth Avenue, on Sloat Boulevard, east on Ocean Avenue to San Jose Avenue, and south on San Jose Avenue to Daly City. Grocery and liquor stores in San Francisco had fairly heavy damage from bottled goods breakage. The Safeway stores at Alemany and San Jose Avenues, and on West Portal Avenue, were a shambles. Plate glass windows buckled at the Alemany Store. Store front windows were shattered along Balboa Street from 35th to 40th Avenues in the Richmond district, and on Irving Street between 20th and 23rd Avenues in the Sunset district. All front windows of the Littleman supermarket, 1630 Ocean Avenue, were broken out. It was

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INTENSITY VI - San Francisco

reported light poles "waved like reeds in the breeze" at the Civic Center. Bells rang at St. Patrick's Church, Mission near Third Streets. A painter working on the south tower of the Golden Gate Bridge said the tower shook "like a tree in a gale." The deck of the bridge galloped up and down and the suspenders (cables) slipped back and forth. He ran to get off the bridge. At least 20 windows broke at the Administration Building and Toll Plaza. Bay Bridge authorities reported no structural damage and traffic moved smoothly. "But it was a real hard shake," said one employee. The Sheraton-Palace Hotel had a broken plate glass window and broken crockery. The telephone company reported no serious damage to its system, although many telephones were out. Repairing damage to the pipe organ located in the Civic Auditorium (Civic Center) was estimated to cost \$300. Air pipes broke and a portion of the organ called the harp unit fell askew when the 7,320 pipes were shaken. Scores of motorists on Bayshore Highway stopped immediately after the shock, thinking they had a flat tire. One motorist said, "We felt a shuddering sidewise motion."

San Francisco Schools. The following reports on San Francisco schools were taken from reports received from the State Department of Public Works, Division of Architecture. "None of the damage found was of such a nature that would endanger life and all the schools inspected were back in session. With the exception of two schools, Presidio Jr. High and Sheridan, where the chimneys suffered some damage, and the San Francisco City College, where some ceramic facing tiles fell off, all the damage observed consisted of cracked plaster on furred walls and fallen portions of plastered ceilings, particularly in buildings having wood lath. It can be generally stated that schools built prior to the Field Act suffered greater damage than those built after 1933. Most of the modern schools went through the earthquake practically unscathed. The following schools were selected for inspection after discussions with city officials brought out the fact that most of the damage was reported from schools falling in a line roughly paralleling the San Andreas Fault."

Presidio Jr. High, at 29th Ave. and Clement St. Three-story reinforced-concrete and steel-frame structure. A r.c. chimney rises about 35 feet above roof. Ornamentations atop this chimney became loose and fell off. One piece, weighing about 350 lbs., fell into the paved court and another fell through the skylights on the top floor which,

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INTENSITY VI - San Francisco

being of r.c. flat slab construction, suffered no damage. The chimney proper, probably r.c., does not show any sign of damage. An old vertical crack through the concrete wall showed at the junction of two wings of the building. Horizontal and 45° shear cracks appeared in the plaster of the stairwell.

George Washington, at 31st Ave., between Geary and Balboa. Three-story r.c. structure, built in 1936. The school has large window openings. Music room and auditorium added in 1952. No damage. Hardly any plaster cracks.

Abraham Lincoln, at 22nd Ave., between Quintara and Santiago. A substantial r.c. building, first built in 1940 with addition in 1952. The only noticeable damage was some slight cracks in the stairwells at floor levels.

City College, at Phelan Ave., and Ocean Ave. The Science building, built in 1940, has ceramic tile facing. This veneer, near the NE corner of the building, broke loose and fell off over an area of 4' x 8' (approx.). Some fractured tiles numbering three or four and a few other tiles bulged out. No other damage was reported.

Farragut School, between Capitol and Faxon Ave. This school is a stuccoed-wood-frame building, built in 1911, with r.c. walls up to the elevated first floor level. Extensive plaster cracks, particularly in the stairwells at the junction of the plastered stud wall and concrete. On the exterior the corners of what appeared to be a bond beam at the top of the elevated first floor showed spalling.

Sheridan School, at Capitol and Farallones St. Three-story stuccoed-wood-frame building, built in 1909, with r.c. walls up to the elevated first floor level. This building is practically identical with the Farragut School. Extensive plaster damage was noted, particularly in the stair walls, running horizontally. A 14-foot-high brick chimney tied together with angle irons fell off in sections. One bracing strut in the attic space broke, probably as a result of the impact suffered when the chimney hit the roof. Plaster ceiling was also damaged. It was also noticed that an empty water tank in the attic broke loose from its pipe connections.

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INTENSITY VI - San Francisco

Longfellow School, at Lowell St., near Mission. Built about 1907. First story r.c.; second story wood-frame. This school is just about to be replaced by a new building. The stairwell shows extensive horizontal cracks. There were also sizeable vertical cracks in the plastered stud wall partitions and ceilings.

West Portal School, Taraval St., Claremont Blvd., and Lenox Way (west portal of the streetcar tunnel). Two-story-type 1/b structure, built in 1927 and rehabilitated in 1932. Reinforced-concrete building. Numerous cracks in the corridor walls in horizontal and vertical directions. Most of the cracks, however, must have been in existence for some time and should be attributed to the result of continuous earth movement rather than to the effect of the recent earthquakes. There is a large old crack through the terraced yard and through the r.c. retaining walls. This crack roughly follows the center line of the streetcar tunnel which lies underneath. A few classroom doors are out of alignment and bind.

Lowell High, at Masonic and Hayes. Three-story-type III, r.c. and brick veneer building, built in 1912, rehabilitated in 1935. The corridors have been strengthened by struts. There are numerous cracks in the plaster along and around these struts. Horizontal cracks in the stairwell at floor levels. Plaster fell in sizeable chunks off the classroom ceilings in library, chemistry laboratory, and auditorium. These floors are very springy, and the plaster is on wood lath (with the exception of the rehabilitation work which was done with exp. metal lath). One vertical crack was observed through the center of the brick veneered pilaster on the west side of the Hayes Street facade.

James Lick Jr. High, at Noe and 25th Sts. Built in 1933. This three-story building suffered hardly any damage. Very few plaster cracks.

Other schools not inspected but reported on by school principals:

Alamo, 23rd Ave., between Clement and California. Plaster cracks (brick and terra cotta has been removed).

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INTENSITY VI - San Francisco

Alvarado, 22nd and Douglass Sts. Plaster cracks.

Andrew Jackson, Grove, near Clayton Sts. Cracks in marble facing at entrance.

Bayview, Bayview, between Pomona and Flora. Plaster cracks.

Benjamin Franklin, Scott, between O'Farrell and Geary Sts. Some plaster fell.

Brete Harte, Gilman and Griffith. Plaster cracked.

Bryant, Bryant, between 22nd and 23rd Sts. Few plaster cracks.

Burnett Annex, Newcomb and Lane. Few cracks in plaster ceiling.

Cleveland, Persia Ave., between Athens and Moscow Sts. Cracked plaster.

Columbus, 12th Ave., between Kirkham and Lawton Sts. Cracked plaster.

Commodore Sloat, Darien Way and Junipero Blvd. Plaster cracks in walls and ceilings.

Commodore Stockton, Washington, near Powell Sts. Few plaster cracks.

Daniel Webster, Missouri and 19th Sts. Plaster cracks.

Dudley Stone, Masonic Ave. and Haight St. Few plaster cracks.

Edison, 22nd St. and Chattanooga. Few plaster cracks.

E. R. Taylor, Burrows and Somerset Sts. Few plaster cracks.

El Dorado, Delta and Wilde Ave. Few plaster cracks.

Emerson, California, between Scott and Divisadero Sts. One-half inch movement between wall and ceiling (?).

Everett Jr. High, 16th and Church Sts. Some cracks behind Auditorium (probably old).

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INTENSITY VI - San Francisco

Excelsior, London St. and Excelsior Ave. Few cracks in plaster.

Francisco Jr. High, Powell, between Chestnut and Francisco Sts. Few cracks in plaster.

Frank McCoppin, 7th Ave., between Balboa and Cabrillo Sts. Few cracks in plaster.

George Peabody, 7th Ave. and Clement Sts. Plaster cracks.

Glen Park, Brompton Ave. and Bosworth St. Few plaster cracks.

Golden Gate, Golden Gate Ave., near Pierce St. Few plaster cracks.

Grant, Pacific, near Baker St. Few plaster cracks.

Grattan, Shrader and Grattan Sts. Broken glass and plaster cracks.

Hancock, Filbert St. and Taylor St. Few plaster cracks.

Horace Mann Jr. High, Valencia and 23rd Sts. Few plaster cracks.

Hawthorne, Shotwell, near 22nd St. Few plaster cracks.

Hearst, 3045 Santiago St. Few plaster cracks.

Hillcrest, Silver Ave. and Cambridge St. Incinerator cracked; walls moved (?); cracks in basement.

James Denman Jr. High, Oneida Ave., near Delano. Some plaster fell.

Jeanes Parker, Broadway, near Powell St. Plaster cracks.

Jefferson, 19th Ave., near Irving St. Plaster cracks.

John O'Connell, 21st St. and Treat. Broken windows.

John Swett, Golden Gate Ave., near Gough St. Bricks in front of building cracked.

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INTENSITY VI - San Francisco

Junipero Serra, Highland Ave. and Holly Park Circle.
Plaster cracks.

Lafayette, Anza, near 36th Ave. Plaster cracks.

Laguna Honda, 7th Ave., near Irving St. Few plaster cracks.

Lawton, 31st Ave., near Lawton St. Few plaster cracks.

Le Conte, Army and Harrison Sts. Few plaster cracks.

Louise Lombard, Hayes and Pierce Sts. Few plaster cracks.

Madison, Clay, near Cherry St. Few cracks in walls.

Mark Twain, 41st Ave. and Ortega St. Few plaster cracks.

Marshall, Capp and 15th Sts. Few plaster cracks.

McKinley, 14th and Castro Sts. Few plaster cracks.

Miraloma, Omar and Cresta View. Few plaster cracks.

Mission High, 18th St. and Delores. Cracks in plaster wall.

Monroe, Excelsior Ave. and Lisbon St. Few plaster cracks.

Noriega, Noriega St. and 44th Ave. Lighting fixture fell.

Ortega, 400 Sargent St. Few plaster cracks.

Portola Jr. High, Girard, near Bacon St. Plaster cracks in old building.

Raphael Weill, Buchanan and O'Farrell Sts. Few plaster cracks.

Redding, Pine and Larkin Sts. Few plaster cracks.

Roosevelt Jr. High, Arguello Blvd., near Geary St. Few cracks in walls and plaster (old?).

San Miguel, San Jose Ave., near Seneca St. Few plaster cracks.