

Table 1. Database of reported landslides that occurred during the 2001 - 2002 wet season in Seattle and neighboring areas.

Landslide Number	Reference Area	Description <sup>1</sup>	Damage/hazard <sup>1</sup>	Date/time of occurrence information (reference)	Field Checked (Y/N)
1	1600 block of 10th Ave E., Seattle	Reactivation of deep-seated landslide. Large volume of groundwater seepage from site was noted. Possible human influence cited (broken water pipes) (City of Seattle, unpub. data, 2002)	Residential area--extent of damage/hazard undetermined.	November 2, 2001 (City of Seattle, unpub. data, 2002)	Y
2	Schuster Parkway, Tacoma	Shallow flows originated from steep exposure near west side of Parkway.	Blocked southbound lane. Maintenance required.	"Wednesday's [11/14/01] drenching rain ...closed some roads...Several small mudslides blocked the southbound lane of Schuster Parkway, according to Tacoma Public Works officials. Crews worked from 7:30 a.m. to 1:30 p.m. before they reopened the lane." (Tribnet.com, 11/15/01)	Y
3	3000 block of W. Galer, Seattle	Shallow slide. Possible human influence (cut/fill location). Slide area is approximately 40-ft long, 30-ft wide, and 10 ft high.	Damaged back of small beach home and approximately 30 ft of roadway behind home. Additional movement could result in more damage to structure.	The slide occurred at approximately 8:00 a.m. on 11/14/01. The occupant of the home was nearly hit by the slide as she was leaving the house that morning (Dennis Callahan, local resident, oral commun. 2002).	Y
4	1800 block of West Lake Sammamish Parkway, Bellevue.	Shallow debris flow from slope along east side of highway. Granular slide material flowed down a 50 - 60 ft high slope to residential area below. Scar approximately 30-ft wide, 40-ft long, and as much as 10-ft deep. Human influence cited (plugged culvert apparently a major factor).	"The mudslide brought silt and water down the hill to Mallard Lane, below West Lake Sammamish Parkway, and affected at least three property owners below....one home bore the brunt of the slide, with up to a foot of mud oozing through the first floor of the house." (Eastsidejournal.com., 11/16/01; see SeattleP-I.com photo in 11/15/01 online issue).	"Bellevue road crews spent most of Wednesday [11/14/01] and part of yesterday [11/15/01] trucking in tons of quarry rock to stabilize the 1800 block of the parkway, which was weakened dangerously by a mudslide.... On Wednesday, a backup in the culvert caused flooding that provoked a mudslide...." (Eastsidejournal.com., 11/16/01).	Y
			"The mud was 16 inches thick at some points on the road" (Eastsidejournal.com 11/15/01).	"The slide in the 1800 block [of West Lake Sammamish Parkway] came just as the Eastside's commute was winding down." (SeattleP-I.com, 11/15/01).	
			The slope failure partly undermined the east side of West Lake Sammamish Parkway (see photo, Seattletimes.com., 11/15/01).		
5	North Ferdinand St (near North 46th St), Tacoma	Shallow debris flow on steep slope underlain by colluvium. Slide track is approx 10-ft wide and 30-ft long.	Temporarily closed North Ferdinand Street.	"Wednesday's [11/14/01] drenching rain ...closed some roads...Mudslide closed North Ferdinand Street about 11:30 a.m., but crews reopened the road to North 46th Street three hours later." (Tribnet.com., 11/15/01)	Y

\* Descriptive information missing or insufficient.

<sup>1</sup> 1 ft = 0.3048 m

Table 1 cont'd

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6	Opposite 12720 Riviera Pl. NE, Seattle	Shallow flow, 5 - 10 yds of material, 1-2 ft thick, track is 3-12 ft wide Fresh scar 6 - 10 ft below crest of bluff.	Debris covered or partly covered Burk-Gilman trail.	A slide (5-10 yds of material) occurred opposite 12720 Riviera, Report received at 4:45 p.m. on 11/14/01. Slide occurred at approximately 3:00 p.m. on 11/14/01. (Rex Allen, City of Seattle, oral commun. 2001).	Y
7	Soos Creek Trail at SE 240th, Kent	*	Blocked section of Soos Creek Trail.	"The first major rainstorm of the season brought mudslides to Western Washington yesterday [11/14/01].... Soos Creek Trail at Southeast 240th Street in Kent was closed when a mudslide blocked the path." (Seattle times.com, 11/15/01). "A mudslide blocked a section of Soos Creek Trail at Southeast 240th Street in Kent. Clean-up efforts had not started yesterday afternoon." (South countyjournal.com, 11/15/01).	N
8	West Valley Highway at 15th Street NW, Auburn	*	One lane of West Valley Highway at 15th Street blocked	"Auburn officials reported that one lane of West Valley Highway at 15th Street was blocked by a small slide for about an hour early yesterday afternoon before an Auburn maintenance crew was able to clear it." (Southcountyjournal.com, 11/15/01)	N
9	Near Highway 522 at Paradise Lake Rd., south Snohomish County,	Shallow debris flows from 30- to 40-ft high mound of fill. Human influence noted (mound appears to be a remnant of highway construction). Slope areas as much as 60 ft across covered with plastic to prevent further sliding/erosion.	Debris flow(s) shut down westbound lanes.	"Several roads in the suburbs east of Seattle were closed Wednesday [11/14/01].... Highway 522 in south Snohomish County was reopened to traffic Wednesday night, several hours after a mudslide shut down westbound lanes, said state Department of Transportation spokeswoman Melanie Moores." (HeraldNet.com, 11/16/01).	Y
10	Opposite 12582 Riviera Pl. NE, Seattle	Shallow slide scar exposes sand above ledge of fine-grained material (siltstone?). Scar is 15-20 ft high, 25-30 ft wide, and 1-3 ft thick.	Covered part of Burke-Gilman trail.	A slide (approximately 40 yds of material) occurred opposite 12582 Riviera Dr. NE between midnight and 7:00 a.m. on 11/15/01 (Rex Allen, City of Seattle, oral commun., 2001).	Y

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Landslide Number	Reference Area	Description <sup>1</sup>	Damage/hazard <sup>1</sup>	Date/time of occurrence information (reference)	Field Checked (Y/N)
11	Opposite 13038 Riviera Pl. NE, Seattle	Shallow slide 10-15 ft high. Most active part on south end is 10-30 ft wide. Trees had to be removed due	Covered part of Burke-Gilman trail. Required maintenance.	Another slide opposite 13038 Riviera Dr. NE occurred between midnight and 7:00 a.m. on 11/15/01.	Y
		the slide. Slide debris is fine-grained brown colluvium derived from horizontally bedded sediments. Total slide area is approximately 25-30 ft wide. Many drain lines cross slide area from bench above.		(Rex Allen, City of Seattle, oral commun., 2001).	
12	Opposite 11728 Riviera Pl. NE, Seattle	Small debris flow track 3-6 ft wide and ~20-30 ft high. Horizontally-bedded, brown natural sediments exposed in the scar. Deposit is several inches thick. Debris may have reached Burke-Gilman trail but has been cleared. Deposit consists of mixture of sand and fines with fragments of siltstone and claystone.	May have covered part of Burke-Gilman trail. Required maintenance.	Slide opposite 11728 Riviera Dr. NE occurred at or just before noon on 11/15/01 (Rex Allen, City of Seattle, oral commun., 2001).	Y
13	Opposite 12328 Riviera Pl. NE, Seattle	Minor slide where loose debris may have slid off ledge.	No damage to structures.	Slide opposite 12328 Riviera Dr. NE occurred between noon and 5:00 p.m. on 11/15/01 (Rex Allen, City of Seattle, oral commun., 2001).	Y
14	Opposite 13200 Riviera Pl. NE, Seattle	*	*	"Slide opposite 13200 Riviera Dr. NE occurred between noon and 5:00 p.m. on 11/15/01." (Rex Allen, City of Seattle, oral commun., 2001).	N
15	Discovery Park, northwest Seattle	*	Slide/debris flow took out part of trail.	Slide in Discovery Park occurred on 11/15/01. The slide took out part of a trail (Mark Orth, City of Seattle, oral commun., 2001).	N
16	Opposite 13200 Riviera Pl. NE, Seattle	Enlargement of slide (that occurred on 11/15/01) indicated by development of ground cracks 25-30 ft above slide on south side.	Continued movement in the area may threaten fire hydrant and water line.	New cracks have developed on hillside above slide that occurred on 11/15/01, opposite 13200 Riviera Dr. NE. The cracks are located 25-30 ft above slide. The new movement was reported at noon on 11/19/01 (Rex Allen, City of Seattle, oral commun., 2001).	Y
17	12000 block of 42nd Ave. NE, Seattle	*	*	City received notification/request regarding occurrence of landslide on 11/19/01 (unpub. City of Seattle database, 2/6/02)	N
18	3600 block of NW 65th Court, Seattle	Shallow slide. Human influence noted (approximately 15 ft of a 10-ft high retaining wall, and fill behind wall, failed onto street).	Estimated \$10,000 damage to retaining wall and yard. Maintenance required to clear and reopen NW 65th Court.	"It [the retaining wall/fill failure] occurred about 6:00 a.m. on 11/21/01. I was outside at the time and heard the noise". (Jana Davis, local resident, oral commun., 2002)	Y

Table 1 cont'd

Landslide Number	Reference Area	Description <sup>1</sup>	Damage/hazard <sup>1</sup>	Date/time of occurrence information (reference)	Field Checked (Y/N)
19	1900 block of 4th Ave. NW, Seattle	Shallow slide/garden wall failure. Possible human influence.	Estimated \$5,000 damage.	City received notificaton/request regarding garden wall failure on 11/21/01 (unpub. City of Seattle database, 2/6/02).	Y
20	12300 block of 25th Ave. NE, Seattle	Shallow sloughing and water erosion near culvert damaged part of roadway. Possible human influence.	Minor damage to 25th Ave. NE.	City received notificaton/request regarding road damage due to slide on 11/21/01 (unpub. City of Seattle database, 2/6/02).	Y
21	Fay Road NE near SR 203, approximately 4 mi south of of Duvall.		Major highway maintenance and slope repair required.	"SR 203 has been reopened. The state highway was closed for 19 hours Friday [11/23/01] when it was hit by several mudslides originating from blocked culverts along Fay Road northeast, east of SR 203. Crews have cleared debris from the roadway and removed unstable material from the slope located east of the roadway". (Eastsidejournal.com., 11/25/01) "The first slide covered one lane, but later slides blocked both lanes and sent entire trees and their root systems onto the road. The roadway was reopened at 8:40 p.m." (Seattletimes.com, 11/24/2001).	N
22	Opposite 12344 Riviera Pl. NE, Seattle	Shallow debris flow on steep slope beneath balcony at rear of residence. Slide scar (covered with plastic) is 20 ft wide, 15 - 20 ft high, 2 - 5 ft deep. Sand exposed in scar.	Covered Burke-Gilman trail at slide location. Cleanup required.	A slide (approx. 40 yds of material) opposite 12344 Riviera Pl. NE occurred between midnight and 9:00 a.m. on 11/23/01 (Rex Allen, City of Seattle, oral commun., 2001)	Y
23	Opposite 12344 Riviera Pl. NE, Seattle	Enlargement (by as much as 15 ft to the north) of slide that occurred on 11/23/01.	Undetermined	Slide opposite 12344 Riviera Dr. NE, widened by as much as 15 ft over the weekend [11/24-25/01] (Rex Allen, City of Seattle, oral commun., 2001)	Y
24	Opposite 12720 Riviera Pl. NE, Seattle	Additional sliding/enlargment along crest of slide that occurred on 11/14/01.	None to structures	Slide opposite 12720 Riviera Dr. NE that occurred on 11/14/01 had some additional sliding along the crest of the slide, prior to a 10:00 a.m. site visit on 11/26/01, that enlarged the slide area (Rex Allen, City of Seattle, oral commun., 2001).	Y
25	4000 block of NE 125th Street, Seattle	Shallow slide/retaining wall failure. Possible human influence.	Damaged retaining wall and exposed pipeline.	City received notificaton/request regarding garden wall failure/landslide on 11/26/01 (unpub. City of Seattle database, 2/6/02).	N

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26	Highway 305 at Agate Bridge, Bainbridge Island	*	Debris closed Highway 305	"Following the Wednesday [11/28/01] storm that left several inches of wet snow, a mudslide early Thursday [11/29/01] closed Highway 305 and the Agate Pass Bridge, snarling rush hour traffic from about 6:30 a.m. to 11:00 a.m." (Bainbridge Island Review online edition, 12/01/01).	N
27	Bluff along railroad tracks (Mile Post 29.2), Mukilteo	*	Blocked both sides of railroad tracks	"A mudslide closed railroad tracks north of Mukilteo early Thursday [11/29/01] morning forcing more than 100 Amtrack train passengers to be bused from Everett to Seattle...The mudslide which was 10 feet deep and 40 feet long, gave way at 3:30 a.m. Thursday. It blocked both sides of the tracks." (The Herald, Everett Wash., 11/30/01, p. B4).	N
28	3000 block of S. Dawson Street, Seattle	Failure on steep slope involving rockery. Plastic sheeting covers area approximately 25-ft wide and 30-ft high. Possible human influence.	Damage to rockery and front yard.	City received notification/request regarding garden wall failure/landslide on 12/3/01 (unpub. City of Seattle database, 2/6/02).	Y
29	10200 block of Waters Ave. S., Seattle	Shallow slide in yard onto sidewalk.	Removal of debris from sidewalk required.	City received notification/request regarding landslide on 12/13/01 (unpub. City of Seattle database, 2/6/02).	N
30	2700 block of 36th Ave. SW	Shallow colluvial slide. Possible human influence (keystone wall failure).	Movement of ground in yard onto walk and keystone wall failure.	Date of notification was 12/13/01 (City of Seattle unpub. database, 2002)	Y
31	17400 block of NE 27th Street, Redmond	*	House foundation anchoring and water line repair required.	"The city yesterday finished anchoring the foundation of a house in the path of a mudslide that has been creeping down a hillside since Thursday [12/14/01]. Heavy rains are blamed for sweeping away a large part of a backyard in the 17400 block of Northeast 27th Street. The mudslide also caused a six-inch water line to break, leaving about 12 residents without water service for a day or two." (Eastsidejournal.com, 12/19/2001).	N
32	9000 block of Renton Ave. S., Seattle	Shallow slide/debris flow on slope adjacent to Renton Ave. S. Slide/flow path is approximately 20 ft high and 5-10 ft wide. Slope is in a natural granular deposit (till?) and colluvium.	No structures affected	City received notification/request regarding landslide on 12/16/01 at about 4:00 p.m. (unpub. City of Seattle database, 2/6/02; J. Ege; City of Seattle, e-mail commun., 2001).	Y

Table 1 cont'd

Landslide Number	Reference Area	Description <sup>1</sup>	Damage/hazard <sup>1</sup>	Date/time of occurrence information (reference)	Field Checked (Y/N)
33	9800 block of Rainier Ave S., Seattle	Shallow debris flow adjacent to Rainier Ave. S. Slide is approximately 10 -12 ft wide and 30-ft long and is in a natural, granular deposit (till?) and colluvium.	Street cleanup required.	City received notificaton/request regarding landslide on 12/16/01 at about 4:00 p.m. (unpub. City of Seattle database, 2/6/02; J. Ege; City of Seattle, e-mail commun., 2001).	Y
34	Lake Washington Blvd. S. between 46th Ave. S. and 48th Ave S., Seattle	Shallow slide/debris flow on bluff adjacent to Lake Washington Blvd. S. Slide/flow path is approximately 30-ft high and 12- ft wide. Slide is in a natural granular, deposit (till?).	Street closure and maintenance required.	City received notificaton/request regarding landslide on 12/16/01 at about 6:00 p.m. (unpub. City of Seattle database, 2/6/02; J. Ege; City of Seattle, e-mail commun., 2001).	Y
35	2100 block of 18th Ave. S., Seattle	Small slide/debris flow on steep 50-60 ft high slope adjacent to 18th Ave. S. Slide/flow path is approximately 30-ft high and 10 -ft wide. Slide is in a natural granular deposit (till?)/colluvium).	Required minor street cleanup.	City received notificaton/request regarding landslide on 12/16/01 at about 4:00 p.m. (unpub. City of Seattle database, 2/6/02; J. Ege; City of Seattle, e-mail commun., 2001).	Y
36	2500 block of Gilman Dr. W. (below upper road of Gilman Dr. W. near 14th Ave. W.), Seattle	Slide on 40-ft high, steep slope adjacent to Gilman Dr. W. Slide debris composed mostly of sand, gravel, and silt. Slide area is approx. 25-ft high and 20-ft wide.	Crack and subsidence in pavement (crest area) on street above slide. indicate possible future enlargement that would damage upper Gilman Dr. W. and possibly deposit hazardous slide debris on lower Gilman Dr. W. Street repair/maintenance required.	City received notificaton/request regarding landslide on 12/16/01 at about 4:00 p.m. (unpub. City of Seattle database, 2/6/02)	Y
37	10300 block of Bedford Ct. NW, Seattle	"The deep failure has a semi-circular scarp face, approximately 250 ft across and 100 ft wide. The block dropped from 3 to 7 ft.....Initially, it appears to be about 40 ft deep." (Brian Smith, City of Seattle, e-mail commun., 2001)	Two structures compromised (Brian Smith, City of Seattle, e-mail commun., 2001)	"On Sunday [12/16/01] there was a massive slump block failure on Bedford Court NW." (Brian Smith, City of Seattle, e-mail commun., 12/21/01).	N
38	2400 block of SW 172nd St., Burien.	Debris flow originating from steep hillside behind homes on SW 172nd St. Slide scar is approximately 100-150 ft long and as much as 50-60 ft wide. Scarp along left flank is as much as 10-15 ft high. Slide scar exposes mostly sand and sand and gravel deposits. Remnant of approximately 6-inch diameter waterline, that previously traversed the hillside, protruding from head scarp. Possible human influence.	".....homes were damaged in the Three Tree Point area of South King County.... The mud almost completely buried three cars..." (SeattleTimes.com, 12/18/01). Slide debris (loose sand, gravel, and downed trees) appears susceptible to additional movement future heavy rains	"The mudslide occurred at 7:30 p.m. on 16 December, 2001." (anonymous local resident, oral commun., 2002). "Last night [night of 12/16/01], a mudslide near Southwest 172nd Street and 24th Avenue Southwest in Burien caused a large water pipe to break, flooding several homes. King County firefighters reported." (Seattle-I-nwsourse.com, 12/17/01).	Y
39	1200 block of NW Elford Dr., Seattle	Deep-seated slide/flow originating on bluff above railroad tracks. Slide area is approx. 10 -130 ft long and as much as 100 ft wide. Sand, gravel, and plastic, clayey silt are exposed in the slide debris.	Remedial work to drain and stabilize slide area has been performed. Enlargement of slide area could undermine foundation of nearby home. Additional downslope movement could impact railroad tracks located below slide area.	"Slide [in 1200 block of NW Elford] dated to Sunday, December 16...slide is under engineer and contractors guidance" (unpub. City of Seattle database, 2/6/02)	Y

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Landslide Number	Reference Area	Description <sup>1</sup>	Damage/hazard <sup>1</sup>	Date/time of occurrence information (reference)	Field Checked (Y/N)
40	1100 block of W. Garfield	Deep-seated slide. Slope height approximately 220 ft (get more info in database)	*	On or about 12/16/01 (unpub. City of Seattle database, 2002)	Y
41	12000 block of 42nd Ave. NE	Shallow colluvial slide. Slope height is approximately 20 ft. Scar is 10 - 12 ft wide and less than 2 ft deep.	*	On or about 12/18/01 (unpub. City of Seattle database, 2002)	Y
42	5300 block of S Hudson St.	Shallow colluvial slide. Slope height is approximately 35 feet.	Slide debris on roadway.	On or about 12/18/01 (unpub. City of Seattle database, 2002)	Y
43	1400 block of Van Burien Ave. W.	Shallow colluvial slide. Slope height is approximately 25 feet.	No structural damage reported.	On or about 12/19/01 (unpub. City of Seattle database, 2002)	Y
44	Highway 101 north of Lilliwaup	*	Debris in roadway caused road closure.	"Motorists pondered their options on Highway 101 north of Lilliwaup on Monday [1/7/02] after mudslide left fallen trees in the roadway. The highway was closed about 9:00 a.m. (photo caption, Thesunlink.com, 1/8/02).	N
45	1600 block of Harbor Ave. SW, Seattle	Shallow slide/debris flow in colluvium. Slope height approximately 50 feet.	No damage to structures.	City received notificaton/request regarding landslide on 1/8/02 (unpub. City of Seattle database, 2/6/02).	Y
46	1500 block of Alki Ave. SW, Seattle	Shallow slide/debris flow in colluvium. Slope height approximately 25 feet.	No damage to structures.	City received notificaton/request regarding landslide on 1/8/02 (unpub. City of Seattle database, 2/6/02).	Y
47	Highway 166 near Port Orchard	Shallow slides along Highway 166 between Gorst and Port Orchard.	Caused road closures.	"Numerous slides struck along Highway 166 between Gorst and Port Orchard, but all were superficial and road closures brief." (Thesunlink.com, 1/8/02).	Y
48	Big Valley Road, Poulsbo	*	"The road was closed for several hours as Puget Sound Energy stabilized the power lines and the county road department assessed the problem" (Thesunlink.com., 1/8/02).	"On Big Valley Road north of Poulsbo a 50-foot section of the 35-foot high bank slide down the road carrying power poles with it." (Thesunlink.com, 1/8/02).	N
49	Illahee Road, Brownsville	Small slides along Illahee Road.	Caused road closure.	"Illahee Road across from Brownsville closed as a precaution after small slides and movement of trees atop embankments there created worries of greater sliding." (Thesunlink.com, 1/8/02)	N
50	Front Street, Bremerton	*	Damaged vehicles and other personal property in garage of home.	"A mudslide clobbered the garage..... at Earhart and Front Street west of Bremerton." (Thesunlink.com, 1/8/02)	N

Table 1 cont'd

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51	Patten Ave. Bremerton	*	House above slide threatened.	"A mudslide along Patten Avenue above the Gateway Boulevard threatened a vacant house above the slide....." (Thesunlink.com., 1/8/02).	N
52	Price Road, Bremerton	*	Caused road closure.	"Also in Bremerton, Price Road from Hazel Avenue to Sixth Street, will be closed indefinitely because of slope failures." (Thesunlink.com., 1/9/02).	N
53	Mount Index Estates area, Snohomish County	*	Undetermined	"In Snohomish County, emergency-management officials remained concerned about a 150-foot wide mudslide along the Skykomish River's South Fork in the Mount Index Estates area." (Seattletimes.com., 1/9/02).	N
54	1000 block of West Lake Sammamish Parkway, Bellevue	Slide on steep slope on west side of West Lake Sammamish Parkway. Repaired area is approximately 50-70 ft high and 100-ft wide. Possible human influence. "City officials think the January 10 slide was caused in part by fill soil that was placed on the private property..." (Seattletimes.com, 1/26/02).	West Lake Sammamish Parkway closed for an extended period for repair and stabilization of slide area. Slide reportedly caused power outage and evacuation of nearby homes.	"The shift [landslide] occurred Thursday [1/10/02] morning, knocking out power to 1,500 customers, toppling several trees onto the road and causing the evacuation of nearby homes." (Seattletimes.com, 1/12/02).	Y
55	3100 block of W Harley St.	Shallow colluvial slide. Slope height is approximately 25 feet. Possible human influence (cutting of trees on slope).	Occurred just east of condominium. No structural damage reported.	On or before 1/10/02 (unpub. City of Seattle database, 2002)	Y
56	9200 block of 3rd Ave. SW	Shallow slide. Slope is approximately 10 ft. high. Possible human influence.	Movement of fill. Concrete curb broken.	On or before 1/15/02 (unpub. City of Seattle database, 2002)	Y
57	4500 block of W Dravus St.	Shallow colluvial slide. Slope height is approximately 110 feet.	Landslide debris on roadway.	On or before 1/25/02 (unpub. City of Seattle database, 2002)	Y
58	6700 block of 8th Ave. NE, Seattle	*	Retaining wall (16-ft high) failure onto sidewalk/street.	City received notification/request regarding retaining wall on 1/25/02 (unpub. City of Seattle database, 2/6/02).	Y
59	11900 block of Lakeside Pl. NE, Seattle	Shallow slide/ debris flow on steep slope adjacent to roadway. Slide area is approximately 25-ft wide and 30-40 ft long.	No damage to structures.	"The residents said the slide was first noticed on Wednesday (1/30/02)...." (Bill Benzer, City of Seattle, e-mail commun., 2/5/02).	Y

\* Descriptive information missing or insufficient.

<sup>1</sup> 1 ft = 0.3048 m