Table 3. Number and percent of nonfatal occupational injuries and illnesses involving days away from work¹ resulting from repetitive motion by selected worker and case characteristics, 2002

Number Percent Number Pe	Characteristic	All		Repetitive motion		Repetitive typing or		Repetitive use of		Repetitive placing,	
Number		Even	Events		·				ols	grasping, or moving	
Total:										objects, except tools	
Total: 1,436,194 100.0 58,576 100.0 10,750 100.0 7,949 100.0 18,006 11 Sex: Men 930,925 64.8 22,526 38.5 1,277 11.9 4,691 59.0 7,278 Women 500,592 34.9 35,967 61.4 9,471 88.1 3,230 40.6 10,683 34.40 Age: Under 14		Number	Doroont	Number	Doroont	Number	Doroont	Number	Doroont	Number	Doroont
Sex: Men 930,925 64.8 22,526 38.5 1,277 11.9 4,691 59.0 7,278 Age: Under 14 155 198 0.0	Total:										100.0
Men	Total.	1,400,104	100.0	00,070	100.0	10,700	100.0	7,040	100.0	10,000	100.0
Women 500,592 34.9 35,967 61.4 9,471 88.1 3,230 40.6 10,683 Age: Under 14 — <	Sex:										
Age: Under 14 1	Men	930,925	64.8	22,526	38.5	1,277	11.9	4,691	59.0	7,278	40.4
Under 14 14 to 15 198 0.0 38,387 2.7 327 0.6	Women	500,592	34.9	35,967	61.4	9,471	88.1	3,230	40.6	10,683	59.3
Under 14 14 to 15 198 0.0 0.0 198 0.0 0.0 198 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Age:										
14 to 15 16 to 19 38,387 2.7 327 0.6 6.7	•										
16 to 19 20 to 24 21 159,229 21 11.1 3,175 5.4 676 6.3 444 5.6 1,087 25 to 34 358,377 25.0 12,423 21.2 2,692 25.0 1,577 19.8 4,068 235 to 44 400,871 27.9 17,481 29.8 2,558 23.8 2,673 33.6 5,470 245 to 54 304,970 21.2 17,250 29.4 3,330 31.0 2,271 28.6 4,758 25 to 64 26 to 60 26 to 60 27 to 60 28 to 60 28 to 60 28 to 60 29 to 60 29 to 60 20 to 6		198	0.0								
20 to 24				327	0.6					192	1.1
25 to 34 35 to 44 400,871 27.9 17,481 29.8 2,558 23.8 2,673 33.6 5,470 45 to 54 304,970 21.2 17,250 29.4 3,330 31.0 2,271 28.6 4,758 55 to 64 143,523 10.0 7,181 12.3 1,383 12.9 896 11.3 2,189 65 and over 25,103 1.7 602 1.0 85 0.8 50 0.6 165 Occupation: Managerial and professional 192,967 16.5 18.8 5,525 18.8 5,525 18.8 5,525 18.8 5,525 18.8 1.2 1.2 469 5.9 2,007 7,871 11.2 469 5.9 2,007 7,871 11.2 469 5.9 2,007 7,871 11.2 469 5.9 2,007 7,871 11.2 469 5.9 2,007 7,872 11.1 11.2 11.3 1,128 11.2 1,128 11.3 1,128 1		<i>'</i>					6.3	444	5.6		6.0
35 to 44 45 to 54 304,970 21.2 17,250 29.4 3,330 31.0 2,271 28.6 4,758 55 to 64 65 and over Occupation: Managerial and professional Technical, sales, and administrative support Service 270,251 18.8 5,525 688 1.2 311 3.9 111 Precision production, craft, and repair Operators, fabricators, and laborers 552,886 38.5 29.2 24,235 41.4 109 1.0 211 212 213 218 221 213 218 221 214 222 202 26,297 2108 2108 221 221 211 232 242 253 33.6 5,470		•									22.6
45 to 54		<i>'</i>		,		· ·		,		,	30.4
55 to 64 143,523 10.0 7,181 12.3 1,383 12.9 896 11.3 2,189 65 and over 25,103 1.7 602 1.0 85 0.8 50 0.6 165 Occupation: Managerial and professional 92,967 6.5 4,040 6.9 2,059 19.2 366 4.6 469 Technical, sales, and administrative support 239,364 16.7 16,145 27.6 7,990 74.3 729 9.2 3,105 Service 270,251 18.8 5,525 9.4 131 1.2 469 5.9 2,007 Farming, forestry, and fishing 35,629 2.5 688 1.2 311 3.9 111 Precision production, craft, and repair 242,787 16.9 7,887 13.5 433 4.0 2,313 29.1 1,982 Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 </td <td></td> <td><i>'</i></td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>,</td> <td>26.4</td>		<i>'</i>		•						,	26.4
Coccupation: Managerial and professional 92,967 6.5 4,040 6.9 2,059 19.2 366 4.6 469 469 4.6 469 4.6 469 4.6 469 4.6 469 4.6 469 4.6 469 4.6 4.6 469 4.6		,		,		· ·				,	
Managerial and professional Technical, sales, and administrative support Service 92,967 6.5 4,040 6.9 2,059 19.2 366 4.6 469 Technical, sales, and administrative support Service 239,364 16.7 16,145 27.6 7,990 74.3 729 9.2 3,105 Service 270,251 18.8 5,525 9.4 131 1.2 469 5.9 2,007 Farming, forestry, and fishing 35,629 2.5 688 1.2 311 3.9 111 Precision production, craft, and repair 242,787 16.9 7,887 13.5 433 4.0 2,313 29.1 1,982 Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 3,758 47.3 10,323 Length of service with employer: 1 1.2 2,950 5.0 221 2.1 432 5.4 1,106 1 year to 5 years 534,192 37.2 22,680 <				-		,					
Managerial and professional Technical, sales, and administrative support Service 92,967 6.5 4,040 6.9 2,059 19.2 366 4.6 469 Technical, sales, and administrative support Service 239,364 16.7 16,145 27.6 7,990 74.3 729 9.2 3,105 Service 270,251 18.8 5,525 9.4 131 1.2 469 5.9 2,007 Farming, forestry, and fishing 35,629 2.5 688 1.2 311 3.9 111 Precision production, craft, and repair 242,787 16.9 7,887 13.5 433 4.0 2,313 29.1 1,982 Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 3,758 47.3 10,323 Length of service with employer: 1 1.2 2,950 5.0 221 2.1 432 5.4 1,106 1 year to 5 years 534,192 37.2 22,680 <	Occupation:										
Technical, sales, and administrative support Service 270,251 18.8 5,525 9.4 131 1.2 469 5.9 2,007 18.8 5,525 9.4 131 1.2 469 5.9 2,007 18.8 5,525 9.4 131 1.2 469 5.9 2,007 18.8 1.2 1.2 1.2 469 5.9 2,007 18.8 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	·	92,967	6.5	4,040	6.9	2,059	19.2	366	4.6	469	2.6
Service 270,251 18.8 5,525 9.4 131 1.2 469 5.9 2,007 Farming, forestry, and fishing 35,629 2.5 688 1.2 311 3.9 111 Precision production, craft, and repair 242,787 16.9 7,887 13.5 433 4.0 2,313 29.1 1,982 Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 3,758 47.3 10,323 Length of service with employer: Less than 3 months 176,701 12.3 2,950 5.0 221 2.1 432 5.4 1,106 3 months to 11 months 290,342 20.2 6,297 10.8 1,211 11.3 1,128 14.2 2,001 1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 More than 5 years 422,273 29.4 26,264 44.8 5,028		239,364	16.7	16,145			74.3	729	9.2	3,105	17.2
Farming, forestry, and fishing Precision production, craft, and repair Operators, fabricators, and laborers 552,886 1.2 1.5 1.8 1.5 1.6 1.6 1.7 1.8 1.7 1.8 1.8 1.8 1.8 1.8	Service	270,251	18.8	5,525	9.4	131	1.2	469	5.9	2,007	11.1
Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 3,758 47.3 10,323 Length of service with employer: Less than 3 months 176,701 12.3 2,950 5.0 221 2.1 432 5.4 1,106 3 months to 11 months 290,342 20.2 6,297 10.8 1,211 11.3 1,128 14.2 2,001 1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 More than 5 years 422,273 29.4 26,264 44.8 5,028 46.8 3,448 43.4 7,748 Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8	Farming, forestry, and fishing	35,629	2.5	688	1.2			311			0.6
Operators, fabricators, and laborers 552,886 38.5 24,235 41.4 109 1.0 3,758 47.3 10,323 48.8 47.3 10,323 47.3 10,323 47.3 10,323 47.3 10,323 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 47.3 10,323 48.8 48.2 48.2 48.2 48.2 48.2 48.2 48.2 48.2 48.2 48.2 48.8 48.2 48.8 48.3 49.8 48.8 49.6 48.8 49.4 48.8 49.6 48.8 49.6 48.8 49.6 48.8 49.6 48.8 49.6 48.8 49.6 48.8 49.6 48.8 49.9 54.1 99.4 <	Precision production, craft, and repair	242,787	16.9	7,887	13.5	433	4.0	2,313	29.1	1,982	11.0
Less than 3 months 176,701 12.3 2,950 5.0 221 2.1 432 5.4 1,106 3 months to 11 months 290,342 20.2 6,297 10.8 1,211 11.3 1,128 14.2 2,001 1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 More than 5 years 422,273 29.4 26,264 44.8 5,028 46.8 3,448 43.4 7,748 Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311		552,886	38.5	24,235			1.0	3,758	47.3		57.3
Less than 3 months 176,701 12.3 2,950 5.0 221 2.1 432 5.4 1,106 3 months to 11 months 290,342 20.2 6,297 10.8 1,211 11.3 1,128 14.2 2,001 1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 More than 5 years 422,273 29.4 26,264 44.8 5,028 46.8 3,448 43.4 7,748 Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311	Length of service with employer:										
3 months to 11 months 290,342 20.2 6,297 10.8 1,211 11.3 1,128 14.2 2,001 1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 More than 5 years 422,273 29.4 26,264 44.8 5,028 46.8 3,448 43.4 7,748 Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311		176.701	12.3	2.950	5.0	221	2.1	432	5.4	1.106	6.1
1 year to 5 years 534,192 37.2 22,680 38.7 4,258 39.6 2,784 35.0 7,056 35.0 3,448 43.4 7,748 46.8 3,448 43.4 7,748 46.8 3,448 43.4 7,748 46.8 3,448 43.4 7,748 46.8 3,448 43.4 7,748 46.8 3,448 43.4 7,748 47.9 48.8 4,569 42.5 4,299 54.1 9,145 48.8 4,569 42.5 4,299 54.1 9,145 48.8 4,569 42.5 4,299 54.1		•		,							11.1
More than 5 years 422,273 29.4 26,264 44.8 5,028 46.8 3,448 43.4 7,748 Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311		<i>'</i>								,	39.2
Not reported 12,685 0.9 386 0.7 158 2.0 95 Race or ethnic origin: White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311				-				-			43.0
White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 8.0 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311	, and the second			•		· ·				,	0.5
White, non-Hispanic 688,009 47.9 28,597 48.8 4,569 42.5 4,299 54.1 9,145 8.0 Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311	Race or ethnic origin:										
Black, non-Hispanic 114,453 8.0 3,982 6.8 720 6.7 475 6.0 1,443 Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311	_	688,009	47.9	28,597	48.8	4,569	42.5	4,299	54.1	9,145	50.8
Hispanic 180,419 12.6 5,490 9.4 811 7.5 789 9.9 1,898 Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311	· · · · · · · · · · · · · · · · · · ·	<i>'</i>		,						,	8.0
Asian or Pacific Islander 22,099 1.5 1,048 1.8 197 1.8 153 1.9 311		-									10.5
	·	•									1.7
ı American Indian or Alaskan Native - 1 8.2251 0.61 2721 0.51 361 0.3111 681	American Indian or Alaskan Native	8,225	0.6	272	0.5		0.3			68	0.4
								2.205	27.7		28.6

See footnotes at end of table.

Table 3. Number and percent of nonfatal occupational injuries and illnesses involving days away from work¹ resulting from repetitive motion by selected worker and case characteristics, 2002

Characteristic	All Events		Repetitive motion		Repetitive typing or keyentry		Repetitive use of tools		Repetitive placing, grasping, or moving objects, except tools	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Major industry division										
Agriculture, forestry, and fishing ²	31,520	2.2	689	1.2			195	2.5	110	0.6
Mining ³	11,355	0.8	43	0.1	8	0.1			12	0.1
Construction	163,641	11.4	2,866	4.9			1,095	13.8	701	3.9
Manufacturing	280,005	19.5	23,593	40.3	1,146	10.7	4,181	52.6	8,739	48.5
Transportation and public utilities 4	168,632	11.7	5,030	8.6	2,256	21.0	356	4.5		5.1
Wholesale trade	108,791	7.6	2,620	4.5	454	4.2	287	3.6	1,036	
Retail trade	263,401	18.3	8,367	14.3	713	6.6	697	8.8		19.9
Finance, insurance, and real estate	36,689	2.6	3,566	6.1	2,257	21.0	136	1.7	251	1.4
Services	372,159	25.9	11,803	20.1	3,857	35.9	999	12.6	2,640	14.7
Public sector										
Number of days away from work:										
Cases involving 1 day	214,923	15.0	4,198	7.2	936	8.7	593	7.5	1,316	7.3
Cases involving 2 days	161,426	11.2	3,027	5.2	530	4.9	262	3.3	927	5.1
Cases involving 3-5 days	266,511	18.6	7,181	12.3	1,471	13.7	882	11.1	2,554	14.2
Cases involving 6-10 days	178,778	12.4	5,843	10.0	1,147	10.7	1,127	14.2	1,588	8.8
Cases involving 11-20 days	158,609	11.0	7,695	13.1	1,414	13.2	1,164	14.6	2,631	14.6
Cases involving 21-30 days	95,886	6.7	5,340	9.1	1,316	12.2	831	10.5		7.4
Cases involving 31 or more days	360,061	25.1	25,292	43.2	3,936	36.6	3,090	38.9	7,666	42.6
Median days away from work	7		23		20		20		20	
Nature of injury, illness:										
Sprains, strains	617,186	43.0	13,326	22.7	1,208	11.2	2,176	27.4	5,362	29.8
Fractures	99,171	6.9								
Cuts, lacerations, punctures	128,061	8.9								
Bruises, contusions	126,986	8.8	19							
Heat burns	21,468	1.5								
Chemical burns	8,257	0.6								
Amputations	8,793	0.6								
Carpal tunnel syndrome	22,651	1.6	22,478	38.4	5,670	52.7	3,046	38.3		
Tendonitis	9,275	0.6	5,887	10.1	847	7.9	802	10.1	1,809	10.0
Multiple injuries	52,496	3.7	57	0.1						
With fractures	12,137	0.8								
With sprains	20,411	1.4								
Soreness, Pain	116,956	8.1	6,575	11.2	989	9.2	622	7.8		
Back pain	46,504	3.2	823	1.4			174	2.2		1.5
All other	224,896	15.7	10,225	17.5	2,037	18.9	1,303	16.4	2,939	16.3

See footnotes at end of table.

Table 3. Number and percent of nonfatal occupational injuries and illnesses involving days away from work¹ resulting from repetitive motion by selected worker and case characteristics, 2002

Characteristic		All Events		Repetitive motion		Repetitive typing or keyentry		Repetitive use of tools		Repetitive placing, grasping, or moving	
	Ever										
									objects, except tool		
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Part of body affected:											
Head	90,228	6.3	19	0.0					17	0.1	
Eye	42,286	2.9									
Neck	22,885	1.6	446	0.8	49	0.5	40	0.5	138	0.8	
Trunk	522,055	36.3	10,481	17.9	296	2.8	1,486	18.7	4,130	22.9	
Back	345,294	24.0	4,304	7.3	46	0.4	614	7.7	2,033	11.3	
Shoulder	83,924	5.8	5,180	8.8	225	2.1	780	9.8	1,831	10.2	
Upper extremities	328,274	22.9	42,356	72.3	9,236	85.9	6,057	76.2	12,368	68.7	
Finger	121,562	8.5	1,987	3.4	280	2.6	327	4.1	662	3.7	
Hand, except finger	55,894	3.9	2,270	3.9	255	2.4	525	6.6	948	5.3	
Wrist	69,187	4.8	28,998	49.5	6,993	65.1	3,903	49.1	7,919	44.0	
Lower extremities	304,453	21.2	1,222	2.1					266	1.5	
Knee	113,035	7.9	735	1.3					148	0.8	
Foot, toe	60,729	4.2	115	0.2							
Body systems	19,933	1.4	42	0.1							
Multiple	139,445	9.7	3,861	6.6	1,119	10.4	332	4.2	1,050	5.8	
All other	8,921	0.6	149	0.3					36	0.2	
Source of injury, illness:											
Chemicals, chemical products	20,652	1.4									
Containers	193,146	13.4									
Furniture, fixtures	52,393	3.6									
Machinery	92,560	6.4									
Parts and materials	147,553	10.3									
Worker motion or position	220,794	15.4	58,576	100.0	10,750	100.0	7,949	100.0	18,006	100.0	
Floor, ground surfaces	255,548	17.8									
Handtools	66,588	4.6									
Vehicles	118,569	8.3									
Health care patient	69,994	4.9									
All other	198,395	13.8									

¹ Days away from work include those that result in days away from work with or without job transfer or restriction.

NOTE: Because of rounding and data exclusion of nonclassifiable responses, data may not sum to the totals. "Repetitive motion" includes data for types of motion not classified or classifies as a motion other than the three shown separately. Dashes indicate data that do not meet publication guidelines. The scientifically selected probability sample used in 2002 was one of many possible samples, each of which could have produced different estimates. A measure of sampling variability for each estimate is available upon request.

SOURCE: Bureau of Labor Statistics U. S. Department of Labor March 2004

² Excludes farms with fewer than 11 employees.

³ Data for Mining (Division B in the Standard Industrial Classification Manual, 1987 edition) include establishments not governed by the Mine Safety and Health Administration (MSHA) rules and reporting, such as those in oil and gas extraction. Data for mining operators in coal, metal, and nonmetal mining are provided to BLS by the Mine Safety and Health Administration, U.S. Department of Labor. Independent mining contractors are excluded from the coal, metal, and nonmetal mining industries. These data do not reflect the changes OSHA made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable with estimates for other industries.

⁴ Data for employers in railroad transportation are provided to BLS by the Federal Railroad Administration, U.S. Department of Transportation. These data do not reflect the changes OSHA made to its recordkeeping requirements effective January 1, 2002; therefore estimates for these industries are not comparable with estimates for other industries.