
1996

Summary of U.S. Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

As Reported to the
American Petroleum Institute

Covering U.S. Petroleum and Petrochemical
Operations of Reporting Companies for 1996

API Publication 2375
September 1997 Revised



One of the most significant long-term trends affecting the future vitality of the petroleum industry is the public's concerns about the environment. Recognizing this trend, API member companies have developed a positive, forward looking strategy called STEP: Strategies for Today's Environmental Partnership. This program aims to address public concerns by improving industry's environmental, health and safety performance; documenting performance improvements; and communicating them to the public. The foundation of STEP is the API Environmental Mission and Guiding Environmental Principles. API standards, by promoting the use of sound engineering and operational practices, are an important means of implementing API's STEP program.

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- To recognize and to respond to community concerns about our raw materials, products and operations.
- To operate our plants and facilities, and to handle our raw materials and products in a manner that protects the environment, and the safety and health of our employees and the public.
- To make safety, health and environmental considerations a priority in our planning, and our development of new products and processes.
- To advise promptly appropriate officials, employees, customers and the public of information on significant industry-related safety, health and environmental hazards, and to recommend protective measures.
- To counsel customers, transporters and others in the safe use, transportation and disposal of our raw materials, products and waste materials.
- To economically develop and produce natural resources and to conserve those resources by using energy efficiently.
- To extend knowledge by conducting or supporting research on the safety, health and environmental effects of our raw materials, products, processes and waste materials.
- To commit to reduce overall emissions and waste generation.
- To work with others to resolve problems created by handling and disposal of hazardous substances from our operations.
- To participate with government and others in creating responsible laws, regulations and standards to safeguard the community, workplace and environment.
- To promote these principles and practices by sharing experiences and offering assistance to others who produce, handle, use, transport or dispose of similar raw materials, petroleum products and wastes.

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**Prepared for the Health and Environmental Affairs Department
by the Finance, Accounting and Statistics Department**

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REPORTED U.S. OCCUPATIONAL INJURIES, ILLNESSES, AND FATALITIES IN THE PETROLEUM INDUSTRY: 1996

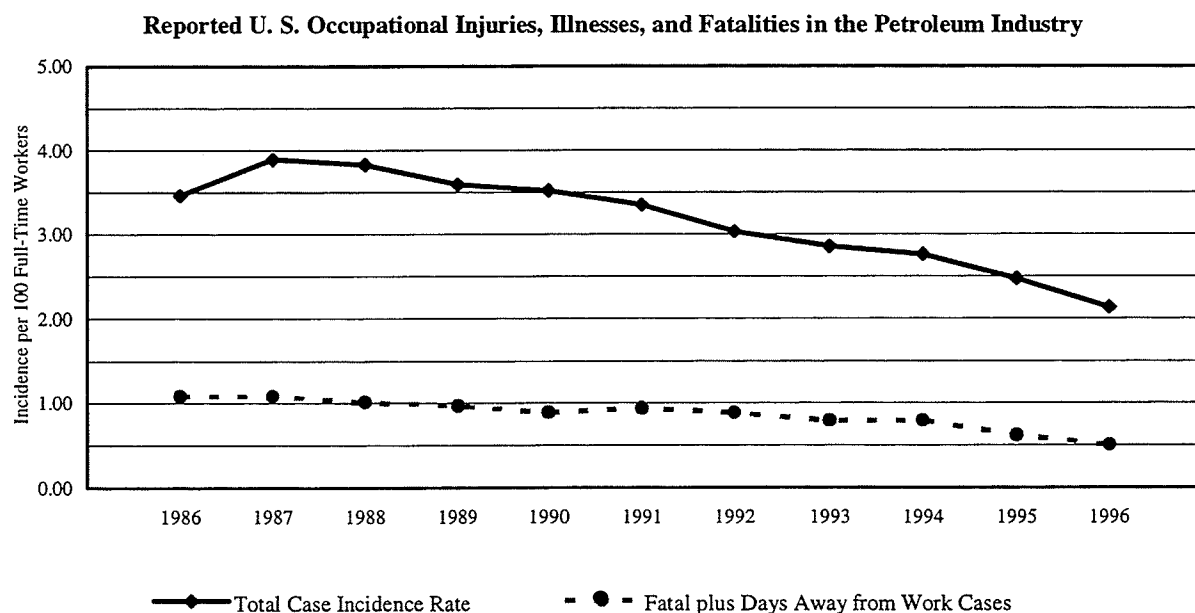
SUMMARY

This report is an aggregate of data submitted to the American Petroleum Institute (API) by 140 oil and gas companies (including 12 subsidiaries), employing 228,209 persons with a total work experience of 463 million hours during 1996. In 1995, 172 companies reported 261,183 employees with a work experience of 535 million hours. Individual company participation varies from year to year, yet 90 companies, representing 97 percent of the number of employees and 96 percent of the number of hours worked in 1996 had responded to this survey for the past 2 years.

In 1996, the *Total Case Incidence Rate* was 2.13, compared to 2.47 for 1995. This rate is the number of total recordable cases per 200,000 hours worked, or approximately the number of cases per 100 full-time workers per year.

The *Fatal Plus Days Away From Work Incidence Rate* for 1996 was .50 per 200,000 hours worked—or one case for every 200 employees, improving from .62 for 1995—or one case for every 161 employees.

Safety among reporting companies continues to improve, as shown in the figure below. Since 1986, the *Total Case Incidence Rate* and *Fatal plus Days Away from Work Incidence Rate* have improved an average of 4.5 and 7.1 percent per year, respectively.



The Survey

Company participation in the API annual statistical survey is voluntary. Participants were asked to submit data according to the Bureau of Labor Statistics (BLS) Recordkeeping Guidelines for Occupations Injuries and Illnesses, September 1986 edition. Therefore, this report provides incidence rates per 200,000 hours worked on the same basis as those reported by BLS. It should be noted, however, that this report covers *company employees* only; contract worker safety statistics are not included.

Significant differences exist among companies regarding return-to-work policies and practices, i.e., for returning injured or ill employees to restricted activity if they are unable to perform normal job activities and as part of their recoveries. Therefore, use of the *Fatal plus Days Away From Work Incidence Rates* alone to judge and compare company safety performance is not recommended.

The Bureau of Labor Statistics (BLS) publishes employment figures for different sectors of the petroleum industry. The following table shows the number of full-time employees given in this API report and the comparative total employment figures published by BLS. These figures can be used to calculate the API survey representation rate.

Employment in the Petroleum Industry				
	E&P and Drilling	Refining and Gas Processing	Oil Pipelines	Total Marketing
API	41.9	51.0	12.0	53.6
BLS	310.7	98.0	13.6	827.9
Representation Rate	13%	57%	95%	6%

Employment figures are in thousands. 1996 BLS figures are current as of April 1997

Caution should be used, however, when interpreting these representation rates. As mentioned above, the API survey is limited to *company employees* while the BLS has a more inclusive definition of employment (the BLS includes contract workers).

Of the 140 companies that responded, 83 agreed to have their company data published individually. However, the total listed for each function is the total for *all* reporting companies—not just the sum of the individual companies appearing in that section of the report.

Additional copies of this report may be obtained by contacting the API Publications and Distribution Department at (202) 682-8375.



U.S. Occupational Injuries and Illnesses for 1996
Covering Petroleum and Petrochemical Operations of Reporting Companies

Table 1 -- Total (Including Offshore Activities)

1		2		3		4			5							6		
Function	K e y ^s	Average Number of Employees	Hours Worked (Thousands)	Recordable Cases			Extent and Outcome of Injury and Illness							Incidence Rates				
				a	b	c	d	e	f	g	h	i	j	k	l			
																Lost Workday Cases		
				Injuries	Illnesses	Total	Fatalities	Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal plus Days Away from Work Cases	Lost Work Days-- Days Away From Work			
Exploration	a	979	1,903	11	1	12	0	5	5	78	0	7	126	0.53	820			
Production	b	12,774	27,915	258	32	290	1	141	77	1,898	1,797	148	208	0.56	13,60			
E&P-Not sep ¹	ab	27,728	57,100	420	38	458	3	221	182	3,669	743	234	140	0.65	12,36			
E&P Subtotal		41,481	86,818	689	71	760	4	387	264	5,645	2,540	389	175	0.62	12,99			
Gas Processing	c	4,722	8,928	72	12	84	0	34	21	949	279	50	188	0.47	21,26			
Drilling	d	397	809	27	0	27	0	16	8	68	75	11	667	1.88	16,81			
Petrochemical Mfg	e	17,895	37,646	330	25	355	0	183	68	1,333	2,695	172	189	0.36	7,08			
Refining	f	46,290	97,783	1,229	66	1,295	2	651	252	6,705	9,811	642	265	0.62	13,71			
Marketing-Whole.	g	12,242	25,145	386	12	398	0	257	105	2,357	2,313	141	317	0.84	18,76			
Marketing-Retail	h	22,110	38,587	1,008	15	1,023	1	456	136	2,010	4,821	566	530	0.71	10,42			
Mrkt.-Not sep ²	gh	19,228	38,166	216	29	245	0	122	66	1,319	838	123	128	0.35	6,91			
Mrkt Subtotal		53,540	101,898	1,610	66	1,666	1	835	307	5,686	7,972	830	327	0.60	11,16			
Pipeline-Liquid	i	11,995	24,035	218	17	235	0	106	79	1,966	848	129	186	0.66	16,88			
Pipeline-Gas	j	80	166	8	0	8	0	4	4	189	15	4	984	4.82	227,71			
Pipeline-Not sep ³	ii	2,718	5,651	82	8	90	0	37	26	254	253	53	319	0.92	8,69			
Pipeline Subtotal		14,793	29,852	308	25	333	0	147	109	2,409	1,116	166	239	0.73	16,14			
Marine-Tanker	k	544	1,202	17	3	20	0	3	3	194	0	17	333	0.50	92,28			
Marine-Inland	l	444	612	23	1	24	0	9	4	181	19	15	784	1.31	59,15			
Marine-Not sep ⁴	kl	1,469	3,619	25	0	25	0	19	8	599	70	6	138	0.44	93,10			
Marine Subtotal		2,457	5,433	65	4	69	0	31	15	874	89	38	254	0.55	35,86			
Research & Dev.	m	7,614	15,433	66	14	80	0	20	16	94	486	60	104	0.21	122			
General Services	n	3,131	6,210	48	1	49	0	28	21	421	389	21	158	0.68	13,59			
Admin., Eng., Other	o	35,849	72,338	157	64	221	0	91	73	1,808	1,114	130	661	0.20	5,09			
Total		228,209	463,248	4,601	398	4,939	7	2,403	1,154	26,092	26,566	2,629	213	0.50	11,36			





U.S. Occupational Injuries and Illnesses for 1996
Covering Petroleum and Petrochemical Operations of Reporting Companies

Table 2 -- Offshore Activities

1 Function	2 Average Number of Employees	3 Hours Worked (Thousands)	4 Recordable Cases			5 Extent and Outcome of Injury and Illness						6 Incidence Rates		
			a	b	c	d	e	f	g	h	i	j	k	l
			Injuries	Illnesses	Total	Fatalities	Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity	Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal plus Days Away from Work Cases	Lost Work days-- Days Away From Work
Offshore Exploration	a	16	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
Offshore Production	b	2,887	63	6	69	0	38	22	741	438	31	2.23	0.71	23.92
Offshore Drilling	d	360	3	0	3	0	0	0	0	0	3	0.83	0.00	0.00
Combinations of Above-Not Sep ^e	abd	4,380	88	2	90	0	53	40	480	182	37	1.99	0.89	10.62
Total Offshore		7,643	154	8	162	0	91	62	1,221	620	71	2.03	0.78	15.27

Incidence Rate Formulas

$$\text{Column 6(f)} = \frac{\text{Column 4(c)} \times 200}{\text{Column 3}}$$

$$\text{Column 6(k)} = \frac{(\text{Column 5(d)} + \text{Column 5(f)}) \times 200}{\text{Column 3}}$$

$$\text{Column 6(l)} = \frac{\text{Column 5(d)} \times 200}{\text{Column 3}}$$

Endnotes

- ¹ E&P data unable to be separated into Exploration or Production functions.
- ² Marketing data unable to be separated into Wholesale or Retail functions.
- ³ Pipeline data unable to be separated into Liquid or Gas functions.
- ⁴ Marine data unable to be separated into Tanker or Inland.
- ⁵ Keyed to definitions outlined in the API Fire and Safety Data System User's Manual.
- ⁶ Exploration, Production, and Drilling data unable to be separated as listed.
- ⁷ Includes restricted activity.



U.S. Occupational Injuries and Illnesses for 1996 Covering Petroleum and Petrochemical Operations of Reporting Companies

a - Exploration d - Drilling h - Marketing - Retail (ij) - Pipeline - Not Sep. m - Research & Development
 b - Production e - Petrochemical Manufacturing (gh) - Marketing - Not Sep. k - Marine - Tanker n - General Services
 (ab) - Exploration & Production - Not Sep. f - Refining i - Pipeline - Liquid l - Marine - Inland o - Admin., Engineering, & Other
 c - Gas Processing g - Marketing - Wholesale j - Pipeline - Gas (kl) - Marine - Not Sep.

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates				
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases			Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays	
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

All Functions

Total	228,209	463,248	4,601	338	4,939	7	2,403	1,154	26,092	26,566	2,529	2.13	0.50	11.26
11	2,651	5,483	72	2	74	0	42	12	213	741	32	2.70	0.44	7.77 (ab),e,f,g,h,(ij),m,o
13	25,964	45,532	1,201	36	1,237	1	581	123	2,456	6,218	655	5.43	0.54	10.79 b,e,f,g,h,i,j,m,n,o
14	9,287	20,174	135	8	143	0	60	35	875	661	83	1.42	0.35	8.67 a,(ab),b,c,d,f,(gh),i,k,m,n,o
17	625	1,371	24	4	28	0	17	14	428	65	11	4.08	2.04	62.44 i
24	22,955	45,342	287	82	369	1	212	193	3,146	2,168	156	1.63	0.86	13.88 (ab),c,e,f,(gh),(ij),m,n,o
27	1,112	2,301	9	2	11	0	6	6	88	0	5	0.96	0.52	7.65 (ab),o
29	658	1,356	9	0	9	0	5	5	97	0	4	1.33	0.74	14.31 i
32	11,155	23,220	115	6	121	0	60	16	964	720	61	1.04	0.14	8.30 (ab),c,e,f,(gh),i,(kl),m,n,o
33	16	33	1	0	1	0	0	0	0	0	1	6.06	0.00	0.00 i
38	128	266	3	0	3	0	1	1	54	241	2	2.26	0.75	40.60 i
41	17,387	35,510	194	12	206	0	125	24	791	2,087	81	1.16	0.14	4.46 b,f,(gh),i,(kl),n,o
43	388	894	61	5	66	0	11	11	218	0	55	14.77	2.46	48.77 f
58	755	2,240	11	1	12	0	4	4	27	21	8	1.07	0.36	2.41 a,b
60	371	779	3	0	3	0	0	0	0	0	3	0.77	0.00	0.00 i

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Days Away From Work
						Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

All Functions

(Cont.)

65	6,868	13,107	97	2	99	0	39	10	300	578	60	1.51	0.15	4.58	a,b,c,d,f,g,i,m,n,o
73	1,542	3,325	84	3	87	0	58	24	349	630	29	5.23	1.44	20.99	e,f,g,i,m,o
74	327	667	16	0	16	0	5	5	191	15	11	4.80	1.50	57.27	j,n,o
90	17,029	35,404	248	21	269	1	115	55	1,280	782	153	1.52	0.32	7.23	(ab),c,e,f,g,h,i,m,n,o
91	255	504	1	0	1	0	1	1	1	0	0	0.40	0.40	0.40	i
93	47	89	1	0	1	0	1	1	149	0	0	2.25	2.25	334.83	i,o
99	18,299	36,304	147	27	174	0	83	25	834	1,554	91	0.96	0.14	4.59	a,b,c,d,e,f,g,i,m,o
106	20,763	43,189	306	19	325	2	154	60	1,236	2,233	169	1.51	0.29	5.72	(ab),e,f,(gh),i,(kl),o
109	14,054	29,691	270	40	310	1	127	85	1,101	1,008	182	2.09	0.58	7.42	(ab),b,c,f,g,(gh),h,(ij),m,o
118	5,319	10,170	177	0	177	0	68	28	511	931	109	3.48	0.55	10.05	(ab),f,(gh),(ij),(kl),o
126	728	1,426	16	4	20	0	2	2	143	0	18	2.81	0.28	20.06	i
140	660	1,320	19	0	19	0	15	15	680	0	4	2.88	2.27	103.03	(ab)
233	980	2,017	12	4	16	0	5	5	106	0	11	1.59	0.50	10.51	i
239	485	983	5	0	5	0	1	1	53	0	4	1.02	0.20	10.78	i
258	20	48	1	0	1	0	1	1	3	5	0	4.17	4.17	12.50	i
260	50	103	2	0	2	0	0	0	0	0	2	3.88	0.00	0.00	i
261	30	65	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	i
301	55	3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	i
10001	3,891	8,512	70	9	79	0	30	4	70	570	49	1.86	0.09	1.64	(ab),e,f,g,i,o
10014	28	56	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	i



Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

All Functions

(Cont.)

10015	69	128	1	0	1	0	0	0	0	0	1.56	0.00	0.00 i
10030	5	15	0	0	0	0	0	0	0	0	0.00	0.00	0.00 a
10203	5	10	0	0	0	0	0	0	0	0	0.00	0.00	0.00 b
10218	2	4	0	0	0	0	0	0	0	0	0.00	0.00	0.00 a,b
10403	12	29	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
10412	3	3	0	0	0	0	0	0	0	0	0.00	0.00	0.00 b
10420	21,861	44,792	449	9	458	0	269	175	3,785	2,531	2.05	0.78	16.90 (ab),e,f,g,h,(j),(k),m,o
10421	3,216	7,393	49	2	51	0	22	22	1,316	0	1.38	0.60	35.60 f,g,h
10509	2	4	1	0	1	0	1	1	2	2	50.00	50.00	100.00 (ab)
10519	2	4	0	0	0	0	0	0	0	0	0.00	0.00	0.00 (ab),o
10523	3	4	1	0	1	0	1	1	20	30	50.00	50.00	1,000.00 b
10534	9	10	0	0	0	0	0	0	0	0	0.00	0.00	0.00 a,b
10540	93	176	4	0	4	0	3	3	5	6	4.55	3.41	5.68 f
10544	58	121	2	0	2	0	0	0	0	0	3.31	0.00	0.00 i
10560	30	51	1	0	1	0	0	0	0	0	3.92	0.00	0.00 (ab),o
10570	118	241	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
10575	575	1,106	17	5	22	0	11	8	86	91	3.98	1.45	15.55 f,i
10607	10	14	0	4	4	0	4	1	4	3	57.14	14.29	57.14 (ab),b,o
10608	33	68	0	0	0	0	0	0	0	0	0.00	0.00	0.00 b,c
10611	6	15	0	0	0	0	0	0	0	0	0.00	0.00	0.00 b

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness						Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Non-Fatal Cases Without Lost Workdays	Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays- Days Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

All Functions

(Cont.)

10616	169	316	11	0	11	0	5	4	149	25	6	6.96	2.53	94.30 i,o
10617	511	1,023	15	4	19	0	8	2	45	117	11	3.71	0.39	8.80 b,c,d,o
10620	483	1,065	3	0	3	0	1	1	4	0	2	0.56	0.19	0.75 c,i,o
10622	483	1,012	17	0	17	0	6	6	72	24	11	3.36	1.19	14.23 c,(gh),i,o
10626	1,349	3,265	34	3	37	0	19	7	450	426	18	2.27	0.43	27.57 f
10629	170	356	2	0	2	0	0	0	0	0	2	1.12	0.00	0.00 c,e,g,(ii),o
10645	739	1,487	16	2	18	0	12	11	173	271	6	2.42	1.48	23.27 f,g,h,i,o
11564	48	101	1	0	1	0	0	0	0	0	1	1.98	0.00	0.00 i
12421	102	240	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
13421	31	84	1	0	1	0	0	0	0	0	1	2.38	0.00	0.00 i
20006	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 (ab)
20029	366	814	18	0	18	0	4	4	29	14	14	4.42	0.98	7.13 f,g,h,i
20032	48	96	1	0	1	0	1	1	17	0	0	2.08	2.08	35.42 (ab)
20035	72	151	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
20037	5	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
20038	1,077	2,288	11	0	11	0	4	4	143	0	7	0.96	0.35	12.50 (ab)
20050	2	3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
20051	25	59	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i
20111	4	18	1	0	1	0	1	0	0	33	0	11.11	0.00	0.00 i
30101	68	155	4	0	4	0	0	0	0	0	4	5.16	0.00	0.00 g,j

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases			Extent and Outcome of Injury and Illness					Incidence Rates		
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Lost Workdays Away From Work
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity			

All Functions

(Cont.)

30103	3	6	0	0	0	0	0	0	0	0	0.00	0.00	0.00 a,b
30107	209	473	4	0	4	0	2	2	54	0	1.69	0.85	22.83 f
30111	184	382	10	0	10	0	6	6	47	0	5.24	3.14	24.61 f
90001	124	307	1	0	1	0	0	0	0	0	0.65	0.00	0.00 i
90024	741	1,434	13	9	22	0	11	6	139	119	3.07	0.84	19.39 (ij)
90041	460	997	1	0	1	0	1	0	0	30	0.20	0.00	0.00 i
90099	700	1,370	4	1	5	0	2	2	239	0	0.73	0.29	34.89 i
90118	96	206	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i,o
99118	22	39	0	0	0	0	0	0	0	0	0.00	0.00	0.00 i,o

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Covering Petroleum and Petrochemical Operations of Reporting Companies

Company ID	Average Number of Employees	Hours Worked in Thousands	Recordable Cases		Extent and Outcome of Injury and Illness						Incidence Rates			
			Injuries	Illnesses	Total	Fatalities	Lost Workday Cases				Total Cases	Fatal Plus Days Away From Work Cases	Non-Fatal Cases Without Lost Workdays	Lost Workdays
							Total Lost Workday Cases*	Cases Involving Days Away From Work	Number of Days Away From Work	Number of Days of Restricted Activity				

Exploration

Total	979	1,903	11	1	12	0	5	5	78	0	7	1.26	0.53	8.20
14	175	359	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
58	136	287	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
65	286	516	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99	151	251	0	1	1	0	0	0	0	0	1	0.80	0.00	0.00
10030	5	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10218	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10534	4	1	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
30103	1	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00