



2009

**Survey of Occupational
Injuries, Illnesses, and Fatalities in the
Petroleum Industry Summary Report:
Aggregate Data Only**

***Covering Petroleum Operations of
Reporting Companies***

API Publication 2388
April 2010



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INTRODUCTION

The Survey on Petroleum Industry Occupational Injuries, Illnesses and Fatalities (OII) is conducted annually. Participation is voluntary and the number of participating companies varies from year to year. Therefore, exercise caution when using this data to characterize the performance of the industry as a whole.

The Survey's results are documented in the *2009 Benchmarking Survey of Occupational Injuries, Illnesses, and Fatalities in Petroleum Industry: Report to Participants*. This Report is only available on *The Occupational Injuries, Illnesses and Fatalities Reporting System website* (<http://oii.api.org>). Access to this report is limited to companies that gave API permission to share their 2009 data.

Participants are asked to submit data according to the Bureau of Labor Statistics (BLS) guidelines. Therefore, this report provides incidence rates per 200,000 hours worked on the same basis as those reported by BLS.

BACKGROUND

API has been collecting data regarding workplace injuries, illnesses and fatalities in *The Survey on Occupational Injuries, Illnesses and Fatalities (OII)* since 1931. Prior to the 1999 survey, companies submitted employee data for their U.S. operations only. In 2000, API expanded the scope of the *OII* and began collecting employee and contract worker data for operations both inside and outside of the U.S.

A second change introduced in 2000 gave participants the ability to submit their data electronically over the Internet using *The Occupational Injuries, Illnesses and Fatalities Reporting System* at <http://oii.api.org/>. Features of this online database include automatic data checks, online instructions, and reports. In addition, for companies willing to share their data have the ability to produce customized benchmarking reports.

While conducting the 2001 survey, API learned that a number of companies no longer track certain data. Consequently, it was decided to make those data fields optional in the 2002 survey. These optional data fields are "The Average Number of Employees", "Job Transfer or Restriction", "All Injury Cases" and "All Illness Cases".

The Occupational Injuries, Illnesses, and Fatalities Reporting System generates two broad categories of online reports for each type of worker—Full Benchmarking and Limited Benchmarking. Companies submitting data for both required and optional fields as well as giving API permission to share their data with other participants have access to Full Benchmark reports. Companies that only submit data for required fields only have access to Limited Benchmarking reports.

SUMMARY

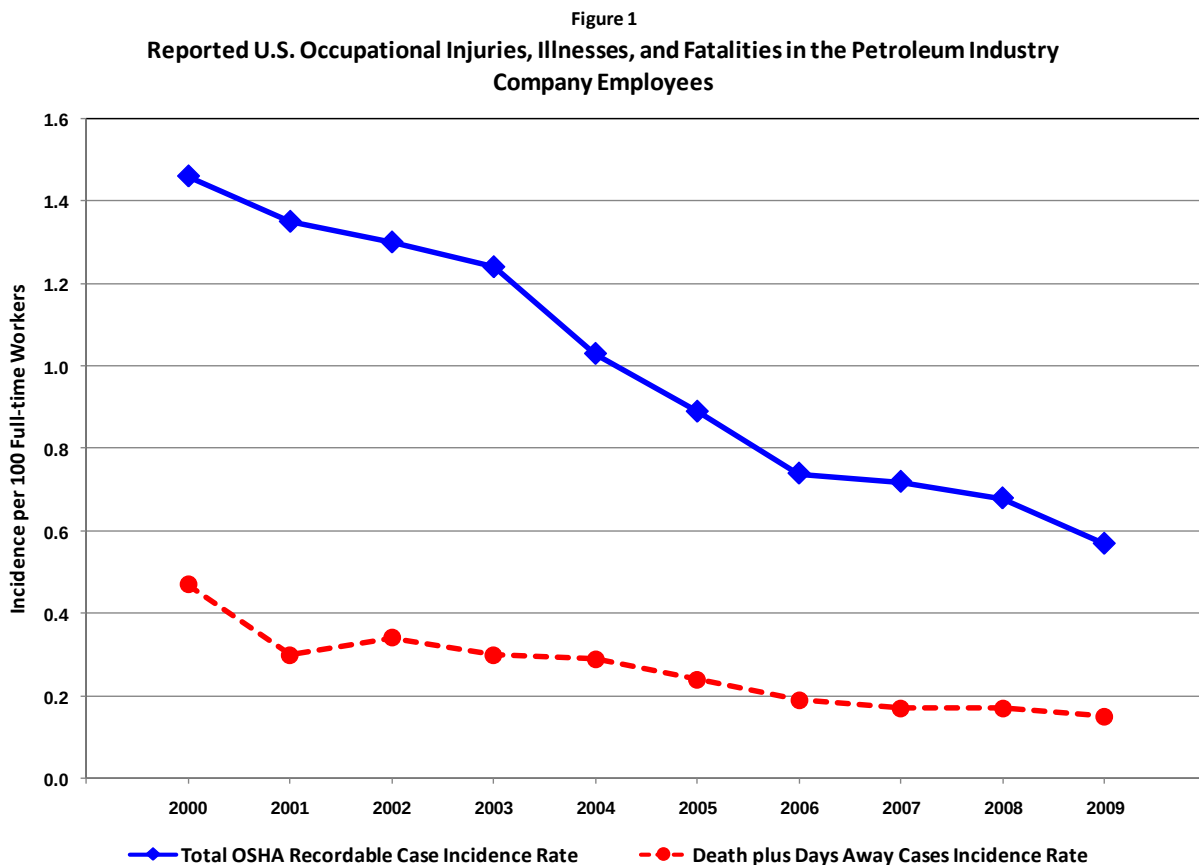
U.S. Operations: Company Employees

2009 data pertaining to U.S. occupational injuries, illnesses and fatalities for an employer's own employees were submitted to the American Petroleum Institute (API) by forty-six oil and natural gas companies and their subsidiaries, employing persons with a total work experience of 294 million hours. In 2008, forty-five companies reported 369 million hours.

In 2009, the *Total OSHA Recordable Case Incidence Rate* reported was 0.58, compared to 0.68 for 2008. 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.

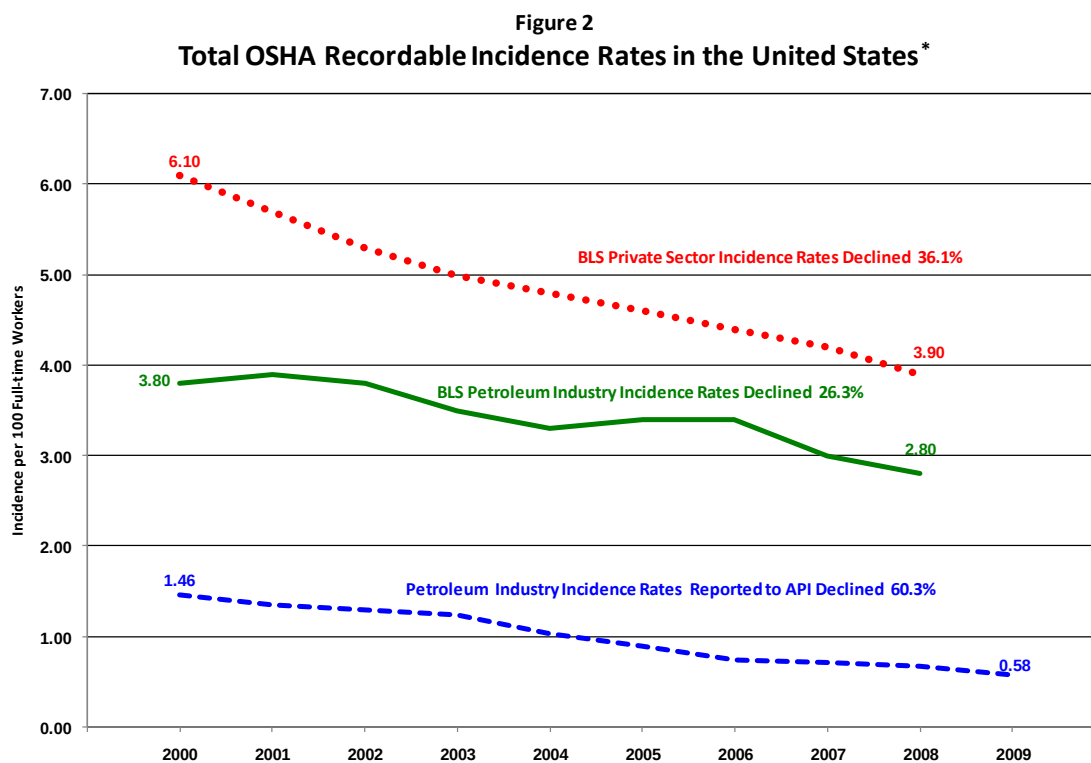
The *Death Plus Days Away Incidence Rate* reported for 2009 was 0.15 per 200,000 hours worked—or one case for every 667 employees, compared to 0.17 in 2008—or one case for every 588 employees.

Since 2000, the reported *Total OSHA Recordable Case Incidence Rate* and *Death plus Days Away Incidence Rate* have improved an average of 9.6 and 10.2 percent per year, respectively (see the figure below).



Significant differences exist among companies regarding return-to-work policies and practices. Therefore, use of the *Death plus Days Away Incidence Rates* alone to judge and compare company safety performance is not recommended.

The total OSHA recordable incidence rate as reported to API declined 60.3 percent during the past ten years. The following graphs show the ten-year trend for selected U.S. petroleum industry sectors.



*BLS will release 2009 injuries and illnesses data in October 2010.

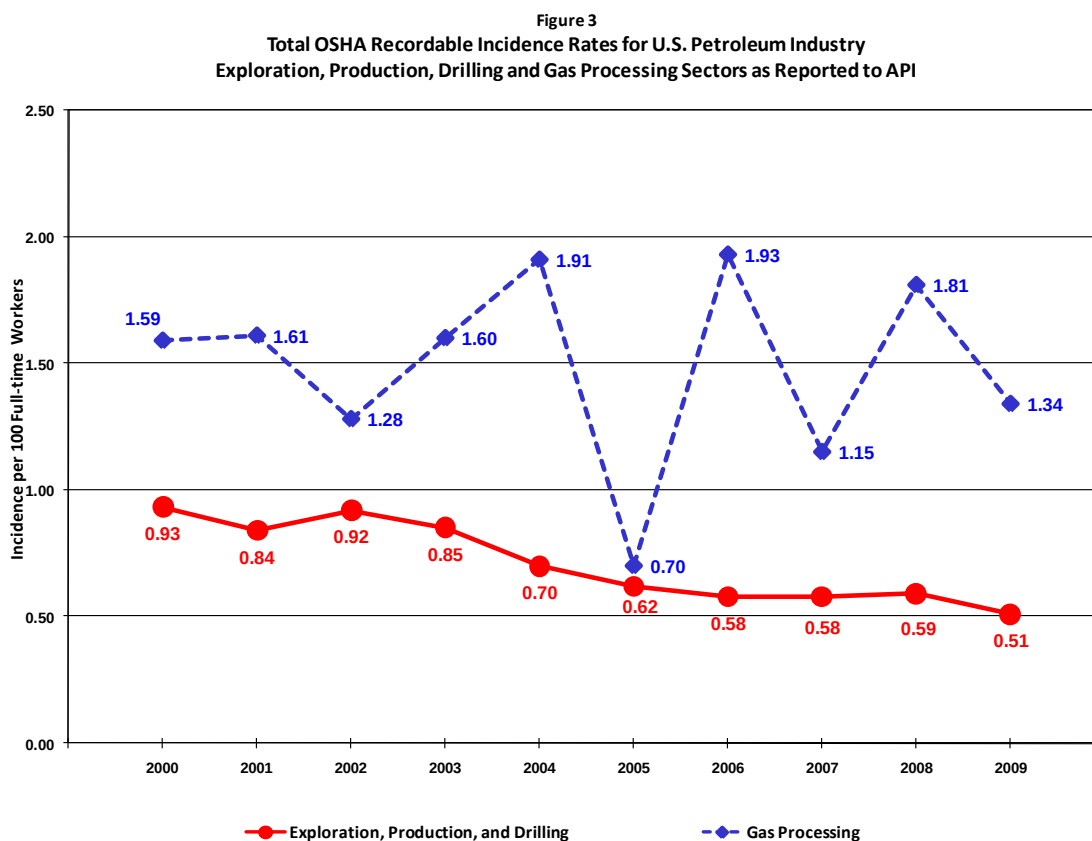


Figure 4
Total OSHA Recordable Incidence Rates for U.S. Petroleum Industry
Marketing and Refining Sectors as Reported to API

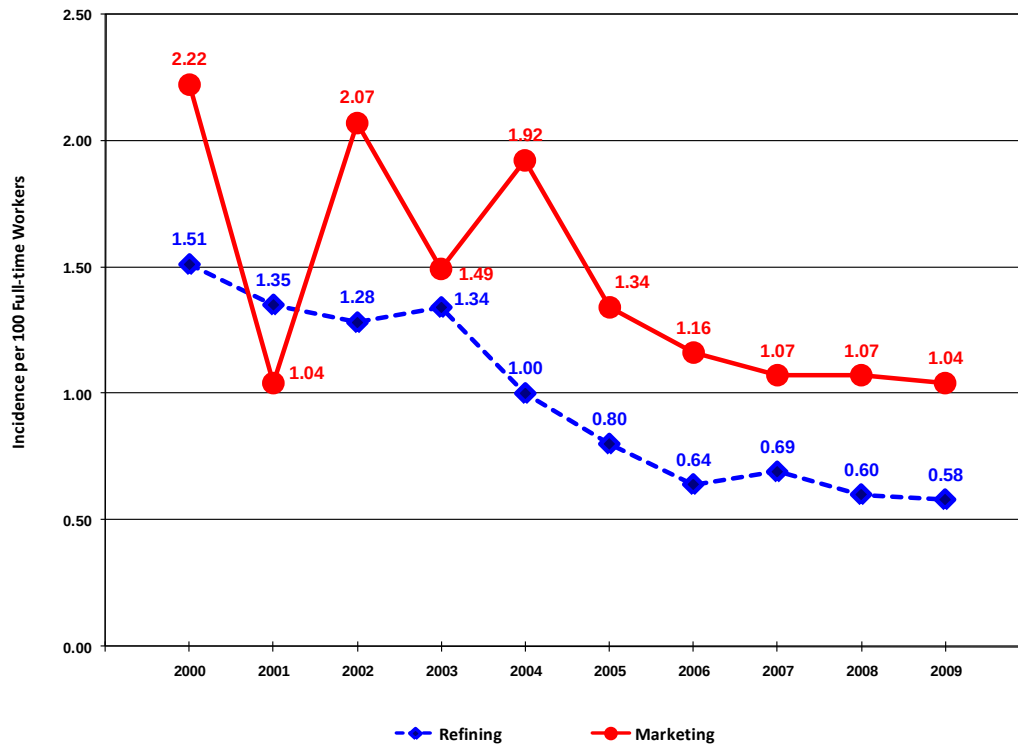
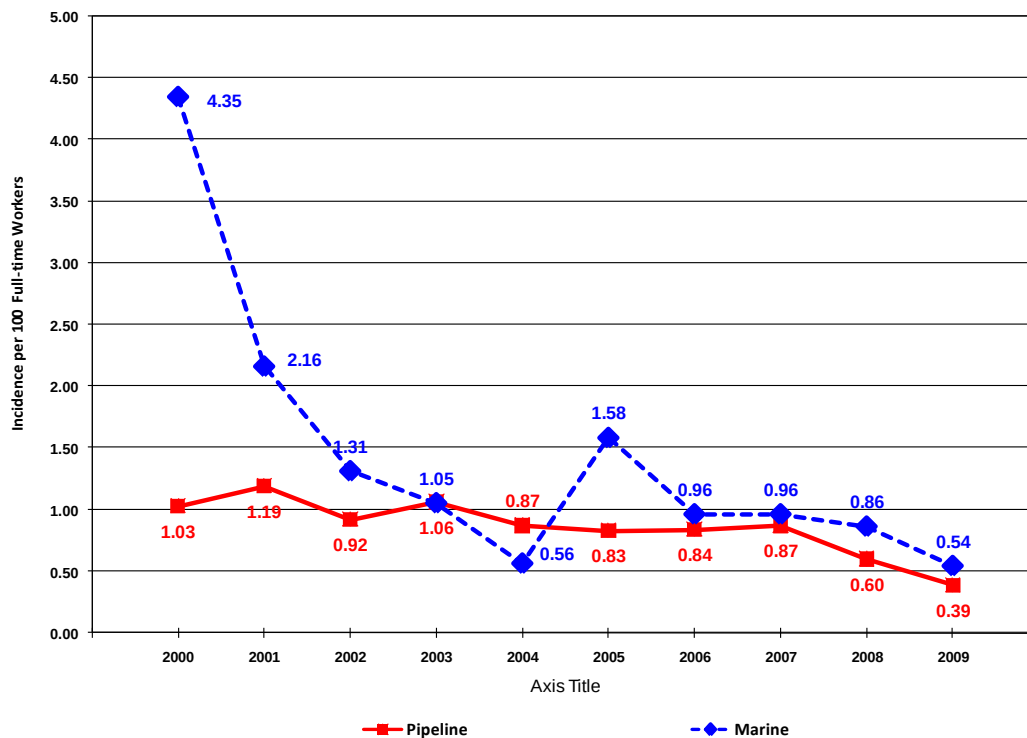


Figure 5
Total OSHA Recordable Incidence Rates for U.S. Petroleum Industry
Pipeline and Marine Sectors as Reported to API



U.S. Operations: Contract Workers

In 2009, thirty-nine oil and natural gas companies and their subsidiaries submitted contract worker data for their U.S. operations. These workers provided 318 million hours of service to these companies. The *Total OSHA Recordable Case Incidence Rate* reported for these contract workers was 0.53. The *Death plus Days Away Incidence Rate* reported for this group of workers was 0.09 per 200,000 hours worked—or one case for every 1,111 workers.

Non-U.S. Operations: Company Employees

Ten companies reported non-U.S. employee data. During 2009, these employees had a total work experience of 233 million hours. For this group, the reported *Total OSHA Recordable Case Incidence Rate* was 0.21.

Their *Death plus Days Away Incidence Rate* was 0.05 per 200,000 hours worked—or one case for every 2,000 employees.

Non-U.S. Operations: Contract Workers

Nine companies reported data for non-U.S. contract workers. In 2009, this category of worker performed a total of 571 million hours in their non-U.S. operations. The *Total OSHA Recordable Case Incidence Rate* reported for these contract workers was 0.31. The *Death plus Days Away Incidence Rate* reported for this group of workers was 0.08 per 200,000 hours worked—or one case for every 1,250 workers.

Survey on Petroleum Industry Occupational Injuries, Illnesses and Fatalities
Limited Benchmarking: All Sharing Companies
U.S. Operations: Company Employees for 2009
Totals by Function

Function	Total Hours Worked (Thousands)	OSHA Recordable Cases Classified by Severity		Total OSHA Recordable Cases	Incidence Rates*		
		Cases of Death	Cases of Days Away From Work		Incidence Rate Total OSHA Recordable Cases	Death plus Days Away From Work Cases	Days Away From Work Cases
Total U.S. Operations: Company Employees 2009	294,255	5	214	847	.58	.15	.15
A . UPSTREAM							
Offshore Expl & Prodn & Drilling ¹	7,420	0	4	16	.43	.11	.11
Onshore Expl & Prodn & Drilling ¹	33,547	2	17	89	.53	.11	.10
Expl & Prodn & Drilling Subtotal	40,967	2	21	105	.51	.11	.10
Gas Processing	1,194	0	2	8	1.34	.34	.34
Upstream Support Services	10,129	0	0	10	.20	0.00	0.00
Upstream Subtotal	52,290	2	23	123	.47	.10	.09
B . DOWNSTREAM							
Marketing-Wholesale	10,366	0	12	29	.56	.23	.23
Marketing-Retail	45,211	0	79	296	1.31	.35	.35
Marketing-Not separated ²	15,907	1	9	46	.58	.13	.11
Marketing Subtotal	71,484	1	100	371	1.04	.28	.28
Refining ¹	62,580	1	43	183	.58	.14	.14
Lubricants/Specialties	10,241	0	2	9	.18	.04	.04
Downstream Support Services	15,129	0	18	35	.46	.24	.24
Downstream Subtotal	159,434	2	163	598	.75	.21	.20
C . PIPELINE							
Pipeline-Liquid	13,995	0	13	46	.66	.19	.19
Pipeline-Gas	24	0	0	0	0.00	0.00	0.00
Pipeline-Not separated ⁴	11,816	0	1	5	.08	.02	.02
Pipeline Subtotal	25,835	0	14	51	.39	.11	.11
MARINE	3,711	1	3	10	.54	.22	.16
RESEARCH & DEV	9,166	0	3	15	.33	.07	.07
SUPPORT SERVICES	43,819	0	8	50	.23	.04	.04

1 Include Power Generation personnel that support this function.

2 Marketing data unable to be separated into Wholesale or Retail functions.

3 Subsidiary data is not included in this table.

4 Pipeline data unable to be separated into Liquid or Gas functions.

5 Not covered under Operating Segments.

*API calculated fields: Total OSHA Recordable Case Incidence Rate = Total OSHA Recordable Cases multiplied by 200 divided by the hours worked (in thousands)

Death plus Days Away From Work Cases Incidence Rate = Death plus Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)

Days Away From Work Cases Incidence Rate = Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)

Survey on Petroleum Industry Occupational Injuries, Illnesses and Fatalities
Limited Benchmarking: All Sharing Companies
U.S. Operations: Contract Workers for 2009
Totals by Function

Function	Total Hours Worked (Thousands)	OSHA Recordable Cases Classified by Severity		Total OSHA Recordable Cases	Incidence Rates*		
		Cases of Death	Cases of Days Away From Work		Incidence Rate Total OSHA Recordable Cases	Death plus Days Away From Work Cases	Days Away From Work Cases
Total U.S. Operations: Contract Workers 2009	318,463	7	129	844	.53	.09	.08
A . UPSTREAM							
Offshore Expl & Prodn & Drilling ¹	19,390	1	5	55	.57	.06	.05
Onshore Expl & Prodn & Drilling ¹	96,730	2	61	327	.68	.13	.13
Expl & Prodn & Drilling Subtotal	116,120	3	66	382	.66	.12	.11
Gas Processing	1,984	0	2	14	1.41	.20	.20
Upstream Support Services	1,134	0	0	2	.35	0.00	0.00
Upstream Subtotal	119,238	3	68	398	.67	.12	.11
B . DOWNSTREAM							
Marketing-Wholesale	4,715	0	1	11	.47	.04	.04
Marketing-Retail	4,310	0	3	6	.28	.14	.14
Marketing-Not separated ²	2,768	0	0	11	.79	0.00	0.00
Marketing Subtotal	11,793	0	4	28	.47	.07	.07
Refining ¹	136,508	1	33	276	.40	.05	.05
Lubricants/Specialties	4,343	0	1	10	.46	.05	.05
Downstream Support Services	1,568	0	0	2	.26	0.00	0.00
Downstream Subtotal	154,212	1	38	316	.41	.05	.05
C . PIPELINE							
Pipeline-Liquid	11,962	1	7	47	.79	.13	.12
Pipeline-Gas	2	0	0	0	0.00	0.00	0.00
Pipeline-Not separated ⁴	8,724	1	4	29	.66	.11	.09
Pipeline Subtotal	20,688	2	11	76	.73	.13	.11
MARINE	269	0	0	0	0.00	0.00	0.00
RESEARCH & DEV	1,269	0	1	3	.47	.16	.16
SUPPORT SERVICES	22,787	1	11	51	.45	.11	.10

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Death plus Days Away From Work Cases Incidence Rate = Death plus Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)

Days Away From Work Cases Incidence Rate = Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)

Survey on Petroleum Industry Occupational Injuries, Illnesses and Fatalities
Limited Benchmarking: All Sharing Companies
Non-U.S. Operations: Company Employees for 2009
Totals by Function

Function	Total Hours Worked (Thousands)	OSHA Recordable Cases Classified by Severity		Total OSHA Recordable Cases	Incidence Rates*		
		Cases of Death	Cases of Days Away From Work		Incidence Rate Total OSHA Recordable Cases	Death plus Days Away From Work Cases	Days Away From Work Cases
Total Non-U.S. Operations: Company Employees 2009	232,926	1	56	247	.21	.05	.05
A . UPSTREAM							
Offshore Expl & Prodn & Drilling ¹	38,085	0	5	40	.21	.03	.03
Onshore Expl & Prodn & Drilling ¹	58,592	0	25	46	.16	.09	.09
Expl & Prodn & Drilling Subtotal	96,677	0	30	86	.18	.06	.06
Gas Processing	1,990	0	2	6	.60	.20	.20
Upstream Support Services	1,956	0	0	1	.10	0.00	0.00
Upstream Subtotal	100,623	0	32	93	.18	.06	.06
B . DOWNSTREAM							
Marketing-Wholesale	9,005	0	3	11	.24	.07	.07
Marketing-Retail	2,352	0	1	1	.09	.09	.09
Marketing-Not separated ²	55,513	1	6	68	.24	.03	.02
Marketing Subtotal	66,870	1	10	80	.24	.03	.03
Refining ¹	25,110	0	8	43	.34	.06	.06
Lubricants/Specialties	7,824	0	0	0	0.00	0.00	0.00
Downstream Support Services	406	0	0	0	0.00	0.00	0.00
Downstream Subtotal	100,210	1	18	123	.25	.04	.04
C . PIPELINE							
Pipeline-Liquid	19	0	0	0	0.00	0.00	0.00
Pipeline-Gas	0	0	0	0	0.00	0.00	0.00
Pipeline-Not separated ⁴	136	0	0	0	0.00	0.00	0.00
Pipeline Subtotal	155	0	0	0	0.00	0.00	0.00
MARINE	4,963	0	1	8	.32	.04	.04
RESEARCH & DEV	668	0	0	0	0.00	0.00	0.00
SUPPORT SERVICES	26,307	0	5	23	.17	.04	.04

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5 Not covered under Operating Segments.

*API calculated fields: Total OSHA Recordable Case Incidence Rate = Total OSHA Recordable Cases multiplied by 200 divided by the hours worked (in thousands)

Death plus Days Away From Work Cases Incidence Rate = Death plus Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)

Days Away From Work Cases Incidence Rate = Days Away From Work Cases multiplied by 200 divided by the hours worked (in thousands)