IADC
ISP PROGRAM
2014
Summary of Occupational Incidents
(Industry Totals)
Issued 15 June 2015
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Summary of Occupational Incidents Introductory Briefing:

Data gathered in the IADC Incident Statistics Program (ISP) data base, shows that the oil and gas well drilling industry continues work toward reducing incidents on rigs. Even though there was a slight decrease in rig demand in 2014, the incidence rates improved slightly over 2013. Although IADC ISP calculates both Incidence rates and Frequency rates, this report is based on Incidence rates which are calculated on incidents per 200,000 man-hours.

The Summary of Occupational Incidents (SOI) is compiled annually from data volunteered by drilling contractors worldwide to the IADC ISP Program. During 2014, 107 contractors participated in the ISP representing a total of 601,351,971 million man-hours worked. Contractors striving for safety improvement by participating in the ISP program reported 2,264 Recordable incidents, 663 Lost Time incidents including 21 fatalities.

Regional Reporting

Safety data is compiled separately for Land and Offshore operations for nine geographic regions. This report is not designed to measure region against region, but to provide companies operating within each region tools to measure their efforts and make improvement in their safety efforts year over year.

Industry Improvement

2014 saw the drilling industry’s worldwide Lost Time Incidence Rate improve to 0.23 which is an 11.54% improvement of the 2013 report of 0.26. The 2014 Recordable Incident rate improved to 0.75 which is a 7.41% improvement over the 2013 report of 0.81. The oil and gas well drilling industry’s efforts towards safety have resulted in the industry’s occupational LTI Incidence rate to remain the same from more than 14.00 in 1963 to 0.23 in 2014, which is a 60 fold improvement.

Fatalities:

In 2014 the industry’s fatalities decreased to 21 incidents compared to 22 incidents reported in 2013. According to the data reported in 2014, three (3) fatalities occurred to employees who had ten or more years of service with the company. Seven (7) fatalities occurred to employees who had more than one year but less than five years of service and three (3) with less than three months of service. Four (4) of the victims had worked for the company between six months to one year and three (3) victims had worked for the company between five years and ten years. Six (6) fatalities occurred during tripping in/out and four (4) during rig/equipment repairs or maintenance. Eight (8) victims were struck-by while five (5) were due to caught between incidents. Three (3) of the fatalities occurred to floormen and four (4) fatalities occurred to motormen.
Regional Summaries: Man-Hours vs Fatalities

European Land and Offshore categories together worked more than 89 million man-hours in 2014 with one (1) fatality. European offshore accounted for 39.3 million man-hours with no fatalities while European Land had 49.83 million man-hours and one (1) fatality. US Land and Offshore contractors together worked more than 144.85 million man-hours with ten (10) fatalities. US Land had 103.73 million man-hours with ten (10) fatalities while US water had 41.12 million man-hours and no fatalities. Canadian contractors accounted for 4.17 million man-hours and one (1) fatality. Canadian Land had 2.74 million man-hours and one (1) fatality while offshore had 1.43 million man-hours and no fatalities. Central America and Caribbean accounted for 15.50 million man-hours with two (2) fatalities. Land operations reported 8.35 million man-hours and no fatalities while water operations reported just over 7.14 million man-hours and two (2) fatalities. Africa combined land and offshore accounted for 74.59 million man-hours with two (2) fatalities. Africa Land accounted for 42.08 million man-hours with one (1) fatality while Africa Water had 32.5 million man-hours and one (1) fatality. The Middle East region accounted for 136.54 million man-hours with no fatalities. The Land division had 98.53 million man-hours and no fatalities while there were 38.01 million man-hours and no fatalities for the offshore division. Asia Pacific accounted for 74.94 million man-hours and three
(3) fatalities. Water had 51.99 million man-hours and three (3) fatalities while the Land Division had 22.94 million man-hours with no fatalities. **South America** made up 52.3 million man-hours with two (2) fatalities. Land had 31.97 million man-hours and no fatalities while Water had 20.32 million man-hours and two (2) fatalities. **Australasia** made up 9.28 million man-hours with no fatalities. Land had 6 million man-hours with no fatalities while offshore had 3.28 million man-hours with no fatalities.

**Lost Time and Recordable Incidents by Region**

Lost time incidents among **US Offshore** workers was better by 6.67% from 0.15 in 2013 to 0.14 in 2014. The Total Recordable Incidence Rate also improved 17.95% from 0.78 in 2013 to 0.64 in 2014. **US Land** LTI Incidence rate improved 19.61% from 0.51 in 2013 to 0.41 in 2014 and Recordable Incidence Rate improved 2.53% from 1.58 in 2013 to 1.54 in 2014. **European Land** workers saw their LTI rate improve 29% from 0.34 for 2013 to 0.24 for 2014. The Recordable Incidence Rate also improved 27% from 0.48 in 2013 to 0.35 in 2014. **European Offshore** workers LTI rate improved 29.6% from 0.27 in 2013 to 0.19 in 2014 while the Recordable Incidence rate improved 14% from 0.85 in 2013 to 0.73 in 2014. **Canada Land** had a 2013 LTI rate of 0.61 which improved 52% to 0.29 for 2014, while their Recordable Incidence worsened 17.68% from 1.98 in 2013 to 2.33 for 2014. **Canada Offshore** workers saw their 2013 LTI rate of 0.0 remain the same for 2014. The Recordable Incidence rate of 0.24 for 2013 worsened 191.67% to 0.70 for 2014. **Central America and Caribbean Land** 2013 LTI rate of 0.27 worsened 59% to 0.43 for 2014. Their 2013 Recordable Incidence rate of 0.64 worsened 15.6% to 0.65 for 2014. **Central America and Caribbean Water** 2013 LTI Rate of 0.22 worsened 54.55% to 0.34 in 2014. The Recordable rate of 0.54 for 2013 worsened 66% to 0.90 for 2014. **Africa Land** LTI rate for 2013 was 0.38 improved 16% for 0.32 in 2014. The Recordable Incidence rate improved 2.8% from 1.07 in 2013 to 1.04 in 2014. **Africa Water** LTI rate of 0.16 for 2013 worsened 12.5% to 0.18 for 2014 and their Recordable Incidence rate worsened 25% from 0.52 in 2013 to 0.65 in 2014. In 2013, **Middle East Land** had a LTI rate of 0.14 which remained the same in 2014. Their 2013 Recordable Incidence rate of 0.65 improved 16.9% to 0.54 in 2014. **Middle East Water** LTI rate of 0.08 in 2013 remained the same in 2014 and their Recordable Incidence rate worsened 20.7% from 0.29 in 2013 to 0.35 in 2014. **Asia Pacific Land** 2013 LTI rate was 0.22 and slightly worsened 9% to 0.24 in 2014, while their Recordable Incidence rate improved 52% from 0.94 in 2013 to 0.45 in 2014. **Asia Pacific Water** 2013 LTI rate of 0.15 remained the same for 2014 and their Recordable Incidence rate improved 26% from 0.54 in 2013 to 0.40 in 2014. In 2013, **South America Land** had an LTI rate of 0.16 which worsened 18.6% to 0.19 in 2014 and a 2013 Recordable rate of 0.51 which worsened 5.5% to 0.54 in 2014. **South America Water** 2013 LTI rate was 0.27 which improved 3.7% to 0.26 in 2014 and a 2013 Recordable rate of 0.66 that also improved 18% to 0.54 in 2014. **Australasia Land** had a 2014 LTI rate of 0.23 and Recordable incident rate of 1.37 for 2014. **Australasia Water** had a 2014 LTI rate of 0.06 and Recordable incident rate of 0.61.

**Greatest Risks:**

Incidents occur in many places around the rig and to all crewmembers. Many types of equipment and rig operations are involved in incidents and all parts of the body are at risk. Incident data are analyzed by occupation, body part, incident type, equipment type, operation, location time in service and time of day the incident occurred.
Data from the IADC ISP show that of all the categories, as with previous years, the Floorman position suffers the largest percentage of Lost Time and Recordable injuries.

Fingers remained the most vulnerable part of the body.

Caught Between accounted for most Lost Time and Recordable injuries and was closely followed by Struck by injuries.

“Other” equipment is the category responsible for the most Lost Time and Recordable incidents.
“Rig Up/Down” is the operation that involves the most Lost Time injuries while “Tripping in/out” involves the most Recordable injuries.

It is no surprise that by far the most Lost Time and Recordable injuries in drilling operations occur on the rig floor.

Lost Time and Recordable injuries based on Time in Service were led by employees with between one to five years of service.
The Most LTI and Recordable incidents occurred between 09:00-16:00 hours.

February and March accounted for the most Lost Time. The most Recordable incidents occurred in July.

26 – 35 age range accounted for the most Lost Time and Recordable incidents.

**Conclusion:**

Activity in most sectors of the industry decreased in 2014. Overall, Lost Time incidents rates and Recordable incident rates slightly improved in 2014 as compared to 2013. The industry also saw the number of fatalities decrease to 21 for 2014 compared to 22 in 2013. Although some regions did not see improvement in 2014, the overall incident and frequency rates are still trending downward even as man-hours continue to trend upwards.
## 2014 ISP Program Industry Totals

**IADC ISP Program**  
**2014 Final Report** (Table 1)  
January – December  
*Note: Figures are unaudited*

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>TOTAL MANHOURS</th>
<th>TOTAL MTOs</th>
<th>TOTAL RWCs</th>
<th>TOTAL LTIs</th>
<th>TOTAL FTLs</th>
<th>TOTAL RCRD</th>
<th>LTI INCD RATE</th>
<th>LTI FREQ RATE</th>
<th>DART INCD RATE</th>
<th>DART FREQ RATE</th>
<th>RCRD INCD RATE</th>
<th>RCRD FREQ RATE</th>
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<td>113</td>
<td>66</td>
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<td>218</td>
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<td>0.86</td>
<td>4.28</td>
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<td>0.19</td>
<td>0.97</td>
<td>0.42</td>
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<td><strong>US Combined</strong></td>
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<td><strong>Canada Combined</strong></td>
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<td>157</td>
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<td>0.48</td>
<td>6.75</td>
<td>0.75</td>
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**MTO=Medical Treatment Only**  
**RWC =Restricted Work Case**  
**LTI =Lost Time Incident**  
**FTL =Fatalities**  
**RCRD =Total Recordables**

**RCRD** = Total

**FREQ** = Frequency Rate (1,000,000 man-hours):

- **LTI FREQ** Rate = (LTI s + FTLs) * 100000 / Total Man-hours
- **DART FREQ** Rate = (RWC + LTI + FTL) * 100000 / Total Man-hours

**DART INCD** Rate = (MTOs + RWCs + LTIs + FTLs) * 200000 / Total Man-hours

**INCD = Incidence Rate (200,000 man-hours)**:

- **LTI INCD** Rate = (LTI s + FTLs) * 200000 / Total Man-hours
- **DART INCD** Rate = (RWC + LTI + FTL) * 200000 / Total Man-hours
- **RCRD INCD** Rate = (MTOs + RWCs + LTIs + FTLs) * 200000 / Total Man-hours

**Issued 15 June 2015**

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For Australasia data prior to 2014 contact IADC
### 2014 - IADC INDUSTRY TOTALS (Table 3)

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<td>3.74</td>
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MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Number of participating companies: 107 – Total; 70 – Land; 55 – Water

#### Total Industry LTI & Recordable Incidence Rates vs Man-hours (Figure 1)
Total Industry Land LTI & Recordable Incidence Rates vs Man-hours (Figure 2)

Total Industry Water LTI & Recordable Incidence Rates vs Man-hours (Figure 3)
IADC 2014 Total Industry Charts
Total Industry Lost Time Incidents by Month (Chart 1)
Based on 647 incidents

January 8.96%
February 9.89%
March 9.89%
April 7.88%
May 7.11%
June 8.66%
July 8.19%
August 9.74%
September 6.80%
October 7.42%
November 7.26%
December 8.19%
Total Industry Recordable Incidents by Month (Chart 2)
Based on 2223 Incidents
Note: Some pie charts may not appear to show all the slices due to the small percentage the slice represents.
Total Industry Lost Time Incidents by Occupation (Chart 3)
Based on 647 Incidents

- Floorman: 33.69%
- Driller (Asst. Driller): 14.06%
- Derrickman: 11.13%
- Roustabout: 12.52%
- Other: 5.87%
- Mechanical: 3.55%
- Motorman: 5.72%
- Electrician: 2.01%
- Toolpusher: 2.16%
- Crane/Forklift Oper: 1.08%
- Barge Engin./BCO: 0.62%
- Superintendent/Super: 0.46%
- Other: 5.87%
- Rig Helper: 1.55%
- Welder: 2.47%
- Deck Super.: 0.93%
- Subsea Eng.: 1.08%
- Marine Crew: 0.46%
- Truck Driver/Pusher: 0.62%
- Superintendent/Super.: 0.46%
Total Industry Recordable Incidents by Occupation (Chart 4)
Based on 2223 Incidents

- Derrickman: 11.79%
- Floorman: 37.25%
- Roustabout: 13.81%
- Marine Crew: 0.45%
- Subsea Eng.: 1.08%
- Radio Oper.: 0.04%
- Deck Super.: 0.49%
- Motorman: 5.71%
- Toolpusher: 1.98%
- Electrician: 2.43%
- Driller: 9.94%
- Derrickman: 11.79%
- Catering Personnel: 0.94%
- Rig Helper: 0.81%
- Truck Helper: 1.39%
- Mechanic: 3.73%
- Barge Engin./BCO: 0.45%
- Crane/Forklift Oper: 0.81%
- Truck Driver/Pusher: 0.58%
- Electrician: 2.43%
- Maint. Super: 0.13%
- Superint./Supervisors: 0.27%
- Catering Personnel: 0.94%
- Marine Crew: 0.45%
- Other: 5.80%
- Roustabout: 13.81%
- Floorman: 37.25%
- Other: 5.80%
## Total Industry Lost Time Incidents by Body Part (Chart 5)

Based on 647 Incidents

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<td>10.82%</td>
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<tr>
<td>Feet/Ankles</td>
<td>11.90%</td>
</tr>
<tr>
<td>Arm(s)</td>
<td>6.65%</td>
</tr>
<tr>
<td>Trunk/Torso</td>
<td>6.03%</td>
</tr>
<tr>
<td>Hand(s) / Wrist(s)</td>
<td>7.88%</td>
</tr>
<tr>
<td>Back</td>
<td>6.03%</td>
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<tr>
<td>Head</td>
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<tr>
<td>Shoulders</td>
<td>4.02%</td>
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<tr>
<td>Neck</td>
<td>0.62%</td>
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<tr>
<td>Toes</td>
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<tr>
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<td>0.31%</td>
</tr>
<tr>
<td>Other</td>
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<tr>
<td>Skin</td>
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<td>Elbows</td>
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<td>Knee(s)</td>
<td>3.86%</td>
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</table>

**Total: 100%**
Total Industry Recordable Incidents by Body Part (Chart 6)
Based on 2223 Incidents

- Finger(s): 32.30%
- Hand(s) / Wrist(s): 9.49%
- Arm(s): 4.50%
- Trunk/Torso: 4.00%
- Back: 5.89%
- Head: 11.83%
- Shoulders: 3.78%
- Neck: 0.58%
- Toes: 1.21%
- Feet/Ankles: 9.04%
- Legs: 7.02%
- Total Industry Recordable Incidents: 2223

- Skin: 0.09%
- Knee(s): 2.97%
- Elbow(s): 1.03%
- Lungs/Resp.: 0.09%
- Digestive/Inter.: 0.18%
- Other: 3.60%
- Eyes (eyelid): 2.38%
- Shoulder(s): 3.78%
- Neck: 0.58%
- Toes: 1.21%
- Feet/Ankles: 9.04%
- Leg(s): 7.02%

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Total Industry Lost Time Incidents by Incident Type (Chart 7)
Based on 647 Incidents

- Slip/Fall: Different Level: 12.67%
- Struck By: 25.81%
- Struck Against: 4.64%
- Caught Between/In: 28.13%
- Slip/Fall: Same Level: 8.04%
- Caught On: 0.46%
- Other: 3.25%
- Struck On: 0.15%
- Sprain: 1.55%
- Heat Exh./Stroke: 0.93%
- Other: 3.25%
- Sprain: 1.55%
- Exposure to Gas: 0.15%
- Exposure to Weather: 0.15%
- Electrical Shock: 0.46%
- Chemicals/Fluids Contact: 1.70%
- Debris: 0.31%
- Flame/heat/steam: 2.32%
- Electrical Shock: 0.46%
- Strain/Overexertion: 5.56%
- Slip/Fall: Same Level: 8.04%
- Slip/Fall: Different Level: 12.67%
Total Industry Recordable Incidents by Incident Type (Chart 8)
Based on 2223 Incidents

- Caught Between/In: 29.10%
- Struck Against: 4.95%
- Struck By: 26.99%
- Strain/Overexertion: 5.40%
- Chemicals/Fluids Contact: 1.84%
- Fl...
Total Industry Lost Time Incidents by Equipment (Chart 9)
Based on 647 Incidents
Total Industry Recordable Incidents by Equipment (Chart 10)
Based on 2223 Incidents

- Anchor Chains/Cables/Winch: 0.85%
- Rig Floor Winch/Deck Winch: 1.03%
- Boat Cargo: 0.45%
- Other: 26.99%
- Anchor Chains/Cables/Winch: 0.85%
- Top Drive (blocks, swivel, kelly): 1.84%
- Chemicals: 1.48%
- Welding, Cutting, Grinding Equipment: 0.54%
- Decks (grating, walkway): 3.87%
- Ladders: 1.30%
- Forklift: 1.08%
- Winch Truck: 0.09%
- Pressure Hoses/Lines: 3.73%
- BOP Stack well-head, tree: 3.10%
- Stairs: 2.83%
- Iron Roughneck, Pipe Spinner, etc.: 2.76%
- Rotory: 0.76%
- Pipes/Collars/Tubulars/Csg.: 12.64%
- Cathead/Drawworks: 0.49%
- Slings: 3.46%
- Hand Tools: Manual: 7.69%
- Hand Tools: Power: 1.26%
- Engines/Pumps/Machinery: 4.45%
- Trans. - Boat: 0.18%
- Trans. - Car, truck, bus: 1.08%
- Kelly/Master Bushings: 0.36%
- Trans. - Car, truck, bus: 1.08%
- Decks (grating, walkway): 3.87%
- Material: 2.74%
- Crane: 1.93%
Total Industry Lost Time Incidents by Operation (Chart 11)
Based on 647 Incidents

- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
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- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
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- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
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- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
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- Making Connection: 3.71%
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- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
- Run/Retrieve Anchors: 0.31%
- Travel/Transport: 1.55%
- Other: 7.57%
- Trip in/out, etc.: 13.29%
- Making Connection: 3.71%
- Routine Drilg Oper.: 8.96%
- Run Casing/Tubing: 6.03%
- Lay Down/Pick up Pipe/Tub.: 6.34%
- Material Handling: Manual: 6.18%
- Rig Up/Down Rig Move: 13.91%
- Paint & related tasks: 0.15%
- Abrasive Blasting/Paint/Scale: 0.31%
- Well Testing: 0.46%
- Walking: 5.87%
- Special Ops.: 1.24%
- Cementing: 1.24%
- Mud Mix/Pump: 2.01%
- Rig/Equip. Repairs/Maint.: 9.74%
- BOP Stack, well head/tree: 4.48%
- Handle Riser: 0.31%
Total Industry Recordable Incidents by Operation (Chart 12)
Based on 2222 Incidents

- Run/Retrieve Anchors: 0.09%
- Painting & related tasks: 0.32%
- Abrasive Blasting/Paint/Scale Removal: 0.27%
- Well Testing: 0.36%
- Training: 0.09%
- Walking: 5.18%
- Special Ops: 1.08%
- Cementing: 1.08%
- Mud Mix/Pump: 1.80%
- Rig/Equip. Repairs/Maint.: 12.38%
- Rig Up/Down Rig Move: 13.73%
- BOP Stack, well head/tree Install/Maint.: 4.28%
- Jack Up/Down Oper.: 0.05%
- Handle Riser: 0.32%
- Travel/Transport: 1.17%
- Trip in/out, etc.: 14.45%
- Making Connection: 3.65%
- Routine Dril Oper: 8.82%
- Run Casing/Tubing: 5.09%
- Lay Down/Pick up Pipe/Tub.: 5.90%
- Material Handling Manual: 5.90%
- Material Handling Crane/Cherry Picker: 2.61%
- Material Handling Winch Truck: 0.05%
- Material Handling Rig Floor Winch: 0.41%
- Material Handling Forklift: 1.35%
- Other: 9.63%
- Other: 14.45%
Total Industry Lost Time Incidents by Location (Chart 13)
Based on 647 Incidents

- Rig Floor: 36.01%
- Rig Pad/Rig Decks: 12.36%
- Work, change, storage, room/house: 1.39%
- Stairs/Ladders: 2.78%
- Cellar/Sub./Moonpool: 6.18%
- Engine/Gen. Room: 1.55%
- SCR/Electrical Room: 0.31%
- Mud Mixing Tank/Area: 3.09%
- Mud Pits/Tanks: 2.47%
- Shale Shaker: 0.93%
- Mud Pump Room: 3.40%
- Fuel/Water Stor. Tanks: 0.46%
- Forklift: 0.31%
- Other: 5.72%
- Catwalk/V-door: 3.55%
- Derrick/Mast: 5.41%
- BOP Stack, Well-head/tree Area: 3.25%
- Truck, Car, Bus: 1.24%
- Machinery Spaces: 1.24%
- Crew/Work Boats: 0.46%
- Camp/Accom.: 2.01%
- Stairs/Ladders: 2.78%
- Cellar/Sub./Moonpool: 6.18%
- Engine/Gen. Room: 1.55%
- SCR/Electrical Room: 0.31%
- Mud Mixing Tank/Area: 3.09%
- Mud Pits/Tanks: 2.47%
- Shale Shaker: 0.93%
- Mud Pump Room: 3.40%
- Fuel/Water Stor. Tanks: 0.46%
- Forklift: 0.31%
- Other: 5.72%
- Catwalk/V-door: 3.55%
- Derrick/Mast: 5.41%
- BOP Stack, Well-head/tree Area: 3.25%
- Truck, Car, Bus: 1.24%
- Machinery Spaces: 1.24%
Total Industry Recordable Incidents by Location (Chart 14)
Based on 2223 Incidents

- Rig Floor 34.55%
- Mud Pits/Tanks 3.33%
- Shale Shaker 1.53%
- Engine/Gen. Room 1.53%
- Stairs/Ladders 1.84%
- SCR/Electrical Room 0.36%
- Mud Mixing Tank/Area 3.01%
- BOP Stack, Well-head/Tree Area 3.78%
- Derrick/Mast 5.22%
- Catwalk/V-door 2.65%
- Pipe Rack/Pipe Deck 6.25%
- Rig Pad/Rig Decks 9.67%
- Work, change, storage, room/house 1.48%
- Crew/Work Boats 0.27%
- Cellar/Sub./Moonpool 5.76%
- Helicopter 0.04%
- Truck, Car, Bus 1.12%
- Machinery Spaces 0.76%
- Camp/Accom. 2.70%
- Jack. House 0.09%
- Cherry Picker/Crane 0.09%
- Forklift 0.40%
- Other 9.50%
Total Industry Lost Time Incidents by Time in Service (Chart 15)
Based on 633 Incidents

- 10+ yrs. 8.37%
- >5 yrs. < 10 yrs. 14.22%
- >1 yr. < 5 yrs. 38.39%
- >6 mos. < 1 yr. 13.59%
- >3 mos. < 6 mos. 10.43%
- 0 mo. < 3 mos. 15.01%
Total Industry Recordable Incidents by Time in Service (Chart 16)
Based on 2170 Incidents

- 10+ yrs.: 6.92%
- >5 yrs. < 10 yrs.: 15.46%
- >1 yr. < 5 yrs.: 38.53%
- >6 mos. < 1 yr.: 13.98%
- >3 mos. < 6 mos.: 10.71%
- 0 mo. < 3 mos.: 14.40%
Total Industry Lost Time Incidents by Time of Day (Chart 17)
Based on 641 Incidents

- 11:00: 5.63%
- 10:00: 4.38%
- 12:00: 5.16%
- 13:00: 6.41%
- 14:00: 5.63%
- 15:00: 4.38%
- 16:00: 3.91%
- 17:00: 3.28%
- 18:00: 3.28%
- 19:00: 4.69%
- 20:00: 4.22%
- 21:00: 4.22%
- 22:00: 5.00%
- 23:00: 3.28%
- 24:00: 2.34%
- 3:00: 3.75%
- 4:00: 3.91%
- 5:00: 3.99%
- 6:00: 3.13%
- 7:00: 2.19%
- 8:00: 4.84%
- 9:00: 4.53%
- 10:00: 3.91%
- 11:00: 2.97%
- 12:00: 2.34%
- 13:00: 2.81%
- 14:00: 2.34%
- 15:00: 2.97%
- 16:00: 3.28%
- 17:00: 3.28%
- 18:00: 3.28%
- 19:00: 3.28%
- 20:00: 3.28%
- 21:00: 3.28%
- 22:00: 3.28%
- 23:00: 3.28%
- 24:00: 3.28%

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Total Industry Lost Time Incidents by Age (Chart 19)
Based on 536 incidents

- 18-25: 19.40%
- 26-35: 41.98%
- 36-45: 21.83%
- 46-55: 12.69%
- 56-65: 4.10%
- 66-75: 41.98%
Total Industry Recordable Incidents by Age (Chart 20)
Based on 1860 Incidents

- 18-25: 19.30%
- 26-35: 45.91%
- 36-45: 22.15%
- 46-55: 9.89%
- 56-65: 2.69%
- 66 & Above: 0.05%
## 2014 ISP Program Regional Totals
### Combined Land & Water
#### IADC 2014 Africa Totals (Table 4)

<table>
<thead>
<tr>
<th></th>
<th>LAND</th>
<th>WATER</th>
<th>COMBINED</th>
</tr>
</thead>
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<tr>
<td>TOTAL MANHOURS</td>
<td>42,085,855</td>
<td>32,506,703</td>
<td>74,592,558</td>
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<tr>
<td>TOTAL MEDICAL TREATMENT INCIDENTS</td>
<td>38</td>
<td>39</td>
<td>77</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
<td>113</td>
<td>38</td>
<td>151</td>
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<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>66</td>
<td>28</td>
<td>94</td>
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<tr>
<td>TOTAL FATALITIES</td>
<td>1</td>
<td>1</td>
<td>2</td>
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<tr>
<td>TOTAL RECORDABLES</td>
<td>218</td>
<td>106</td>
<td>324</td>
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<tr>
<td>MTO INCIDENCE RATE</td>
<td>0.18</td>
<td>0.24</td>
<td>0.21</td>
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<tr>
<td>RWC INCIDENCE RATE</td>
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<td>0.23</td>
<td>0.40</td>
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<tr>
<td>LTI INCIDENCE RATE</td>
<td>0.32</td>
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<tr>
<td>LTI FREQUENCY RATE</td>
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<td>DART INCIDENCE RATE</td>
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<td>DART FREQUENCY RATE</td>
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<td>RECORDABLE INCIDENCE RATE</td>
<td>1.04</td>
<td>0.65</td>
<td>0.87</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>5.18</td>
<td>3.26</td>
<td>4.34</td>
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MEDICAL TREATMENT INCIDENT RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENT RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENT RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENT RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 14 Water – 26

#### Africa Total LTI & Recordable Incidence Rates vs Man-hours (Figure 4)
IADC 2014 Asia Pacific Totals (Table 5)

<table>
<thead>
<tr>
<th></th>
<th>LAND</th>
<th>WATER</th>
<th>COMBINED</th>
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<tbody>
<tr>
<td>TOTAL MANHOURS</td>
<td>22,946,866</td>
<td>51,996,092</td>
<td>74,942,958</td>
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<tr>
<td>TOTAL MEDICAL TREATMENT INCIDENTS</td>
<td>17</td>
<td>28</td>
<td>45</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
<td>8</td>
<td>39</td>
<td>47</td>
</tr>
<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>27</td>
<td>35</td>
<td>62</td>
</tr>
<tr>
<td>TOTAL FATALITIES</td>
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<td>3</td>
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<tr>
<td>TOTAL RECORDABLES</td>
<td>52</td>
<td>105</td>
<td>157</td>
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<tr>
<td>MTO INCIDENCE RATE</td>
<td>0.15</td>
<td>0.11</td>
<td>0.12</td>
</tr>
<tr>
<td>RWC INCIDENT RATE</td>
<td>0.07</td>
<td>0.15</td>
<td>0.13</td>
</tr>
<tr>
<td>LTI INCIDENT RATE</td>
<td>0.24</td>
<td>0.15</td>
<td>0.17</td>
</tr>
<tr>
<td>LTI FREQUENCY RATE</td>
<td>1.18</td>
<td>0.73</td>
<td>0.87</td>
</tr>
<tr>
<td>DART INCIDENT RATE</td>
<td>0.31</td>
<td>0.30</td>
<td>0.30</td>
</tr>
<tr>
<td>DART FREQUENCY RATE</td>
<td>1.53</td>
<td>1.48</td>
<td>1.49</td>
</tr>
<tr>
<td>RECORDABLE INCIDENCE RATE</td>
<td>0.45</td>
<td>0.40</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>2.27</td>
<td>2.02</td>
<td>2.09</td>
</tr>
</tbody>
</table>

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting:  Land – 14   Water – 33

Asia Pacific Total LTI & Recordable Incidence Rates vs Man-hours (Figure 5)
### IADC 2014 Australasia Totals (Table 6)

<table>
<thead>
<tr>
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<th>LAND</th>
<th>WATER</th>
<th>COMBINED</th>
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<tbody>
<tr>
<td>TOTAL MANHOURS</td>
<td>6,011,767</td>
<td>3,280,928</td>
<td>9,282,695</td>
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<tr>
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<td>TOTAL RESTRICTED WORK INCIDENTS</td>
<td>14</td>
<td>6</td>
<td>20</td>
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<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>7</td>
<td>1</td>
<td>8</td>
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<tr>
<td>TOTAL FATALITIES</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>TOTAL RECORDABLES</td>
<td>41</td>
<td>10</td>
<td>51</td>
</tr>
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</table>

- **MTO INCIDENCE RATE**: 0.67 (Land), 0.18 (Water), 0.49 (Combined)
- **RWC INCIDENCE RATE**: 0.47 (Land), 0.37 (Water), 0.43 (Combined)
- **LTI INCIDENCE RATE**: 0.23 (Land), 0.06 (Water), 0.17 (Combined)
- **LTI FREQUENCY RATE**: 1.17 (Land), 0.30 (Water), 0.86 (Combined)
- **DART INCIDENCE RATE**: 0.70 (Land), 0.43 (Water), 0.60 (Combined)
- **DART FREQUENCY RATE**: 3.50 (Land), 2.13 (Water), 3.02 (Combined)
- **RECORDABLE INCIDENCE RATE**: 1.37 (Land), 0.61 (Water), 1.10 (Combined)
- **RECORDABLE FREQUENCY RATE**: 6.83 (Land), 3.05 (Water), 5.49 (Combined)

**MEDICAL TREATMENT INCIDENCE RATE** = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

**RESTRICTED WORK INCIDENCE RATE** = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

**LOST TIME INCIDENCE RATE** = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

**LOST TIME FREQUENCY RATE** = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

**DART INCIDENCE RATE** = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

**DART FREQUENCY RATE** = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

**RECORDABLE INCIDENCE RATE** = RECORDABLES X 200,000 / MAN-HOURS

**RECORDABLE FREQUENCY RATE** = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 7; Water – 7

### Australasia Total LTI & Recordable Incidence Rates vs Man-hours (Figure 6)
### IADC 2014 Canada Totals (Table 7)

<table>
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<th></th>
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<th>COMBINED</th>
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</thead>
<tbody>
<tr>
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<td>1,433,556</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
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<td>9</td>
</tr>
<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>3</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>TOTAL FATALITIES</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL RECORDABLES</td>
<td>32</td>
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<td>37</td>
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<td>MTO INCIDENCE RATE</td>
<td>1.60</td>
<td>0.28</td>
<td>1.15</td>
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<tr>
<td>RWC INCIDENCE RATE</td>
<td>0.44</td>
<td>0.42</td>
<td>0.43</td>
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<tr>
<td>LTI INCIDENCE RATE</td>
<td>0.29</td>
<td>0.00</td>
<td>0.19</td>
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<tr>
<td>LTI FREQUENCY RATE</td>
<td>1.46</td>
<td>0.00</td>
<td>0.96</td>
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<td>DART INCIDENCE RATE</td>
<td>0.73</td>
<td>0.42</td>
<td>0.62</td>
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<td>DART FREQUENCY RATE</td>
<td>3.64</td>
<td>2.09</td>
<td>3.11</td>
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<tr>
<td>RECORDABLE INCIDENCE RATE</td>
<td>2.33</td>
<td>0.70</td>
<td>1.77</td>
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<td>RECORDABLE FREQUENCY RATE</td>
<td>11.66</td>
<td>3.49</td>
<td>8.85</td>
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</table>

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
REstricted WORK INCIDENT RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENTAL RATE = (LTIs + FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs + FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENT RATE = (LTIs + FTLs + RWCs) X 200,000 / MAN-HOURS
DART FREQUENCY RATE = (LTIs + FTLs + RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENTAL RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting:    Land – 4     Water – 4

### Canada Total LTI & Recordable Incidence Rates vs Man-hours (Figure 7)
## IADC 2014 Central America & Caribbean Totals (Table 8)

<table>
<thead>
<tr>
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<th>COMBINED</th>
</tr>
</thead>
<tbody>
<tr>
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<td>7,148,806</td>
<td>15,500,530</td>
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<tr>
<td>TOTAL MEDICAL TREATMENT INCIDENTS</td>
<td>7</td>
<td>16</td>
<td>23</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>18</td>
<td>10</td>
<td>28</td>
</tr>
<tr>
<td>TOTAL FATALITIES</td>
<td>0</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL RECORDABLES</td>
<td>27</td>
<td>32</td>
<td>59</td>
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<td>MTO INCIDENCE RATE</td>
<td>0.17</td>
<td>0.45</td>
<td>0.30</td>
</tr>
<tr>
<td>RWC INCIDENCE RATE</td>
<td>0.05</td>
<td>0.11</td>
<td>0.08</td>
</tr>
<tr>
<td>LTI INCIDENCE RATE</td>
<td>0.43</td>
<td>0.34</td>
<td>0.39</td>
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<tr>
<td>LTI FREQUENCY RATE</td>
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<td>1.68</td>
<td>1.94</td>
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<td>DART INCIDENCE RATE</td>
<td>0.48</td>
<td>0.45</td>
<td>0.46</td>
</tr>
<tr>
<td>DART FREQUENCY RATE</td>
<td>2.39</td>
<td>2.24</td>
<td>2.32</td>
</tr>
<tr>
<td>RECORDABLE INCIDENCE RATE</td>
<td>0.65</td>
<td>0.90</td>
<td>0.76</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>3.23</td>
<td>4.48</td>
<td>3.81</td>
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</table>

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENCE RATE (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 6   Water – 9

---

### Central America & Caribbean Total LTI & Recordable Incidence Rates vs Man-hours

(Figure 8)
## IADC 2014 European Totals (Table 9)

<table>
<thead>
<tr>
<th></th>
<th>LAND</th>
<th>WATER</th>
<th>COMBINED</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOTAL MANHOURS</td>
<td>49,839,013</td>
<td>39,307,901</td>
<td>89,146,914</td>
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<tr>
<td>TOTAL MEDICAL TREATMENT INCIDENTS</td>
<td>13</td>
<td>67</td>
<td>80</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
<td>16</td>
<td>38</td>
<td>54</td>
</tr>
<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
<td>58</td>
<td>38</td>
<td>96</td>
</tr>
<tr>
<td>TOTAL FATALITIES</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>TOTAL RECORDABLES</td>
<td>88</td>
<td>143</td>
<td>231</td>
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</tbody>
</table>

- **MTO INCIDENCE RATE**: 0.05, 0.34, 0.18
- **RWC INCIDENCE RATE**: 0.06, 0.19, 0.12
- **LTI INCIDENCE RATE**: 0.24, 0.19, 0.22
- **LTI FREQUENCY RATE**: 1.18, 0.97, 1.09
- **DART INCIDENCE RATE**: 0.30, 0.39, 0.34
- **DART FREQUENCY RATE**: 1.50, 1.93, 1.69
- **RECORDABLE INCIDENCE RATE**: 0.35, 0.73, 0.52
- **RECORDABLE FREQUENCY RATE**: 1.77, 3.64, 2.59

### Incidence Rate Formulas:
- **MEDICAL TREATMENT INCIDENCE RATE** = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
- **RESTRICTED WORK INCIDENCE RATE** = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
- **LOST TIME INCIDENCE RATE** = (LTIs+FTLs) X 200,000 / MAN-HOURS
- **LOST TIME FREQUENCY RATE** = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
- **DART INCIDENCE RATE** = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
- **DART INCIDENCE RATE** = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
- **RECORDABLE INCIDENCE RATE** = RECORDABLES X 200,000 / MAN-HOURS
- **RECORDABLE FREQUENCY RATE** = RECORDABLES X 1,000,000 / MAN-HOURS

**Companies Reporting:** Land – 14 Water – 22

### European Total LTI & Recordable Incidence Rates vs Man-hours (Figure 9)

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**Issued 15 June 2015**

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### IADC 2014 Middle East Totals (Table 10)

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<tbody>
<tr>
<td>TOTAL MANHOURS</td>
<td>98,533,479</td>
<td>38,015,673</td>
<td>136,549,152</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
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<tr>
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<tr>
<td>TOTAL FATALITIES</td>
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<td>0</td>
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<tr>
<td>TOTAL RECORDABLES</td>
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<td>332</td>
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<tr>
<td>MTO INCIDENCE RATE</td>
<td>0.22</td>
<td>0.09</td>
<td>0.18</td>
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<tr>
<td>RWC INCIDENCE RATE</td>
<td>0.18</td>
<td>0.17</td>
<td>0.18</td>
</tr>
<tr>
<td>LTI INCIDENCE RATE</td>
<td>0.14</td>
<td>0.08</td>
<td>0.12</td>
</tr>
<tr>
<td>LTI FREQUENCY RATE</td>
<td>0.68</td>
<td>0.42</td>
<td>0.61</td>
</tr>
<tr>
<td>DART INCIDENCE RATE</td>
<td>0.32</td>
<td>0.26</td>
<td>0.30</td>
</tr>
<tr>
<td>DART FREQUENCY RATE</td>
<td>1.59</td>
<td>1.29</td>
<td>1.51</td>
</tr>
<tr>
<td>RECORDABLE INCIDENCE RATE</td>
<td>0.54</td>
<td>0.35</td>
<td>0.49</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>2.70</td>
<td>1.74</td>
<td>2.43</td>
</tr>
</tbody>
</table>

**Medical Treatment Incidence Rate** = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

**Restricted Work Incidence Rate** = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

**Lost Time Incidence Rate** = (LTIs+FTLs) X 200,000 / MAN-HOURS

**Lost Time Frequency Rate** = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

**DART Incidence Rate** = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

**DART Frequency Rate** = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

**Recordable Incidence Rate** = RECORDABLES X 200,000 / MAN-HOURS

**Recordable Frequency Rate** = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 25   Water – 20

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**Middle East Total LTI & Recordable Incidence Rates vs Man-hours (Figure 10)**

- LTI Rate
- Rec. Rate
- DART Rate
- Man-hours
IADC 2014 South American Totals (Table 11)

<table>
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<th>LAND</th>
<th>WATER</th>
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</thead>
<tbody>
<tr>
<td>TOTAL MANHOURS</td>
<td>31,975,404</td>
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<td>TOTAL MEDICAL TREATMENT INCIDENTS</td>
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<tr>
<td>TOTAL RESTRICTED WORK INCIDENTS</td>
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<td>49</td>
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<tr>
<td>TOTAL LOST TIME INCIDENTS</td>
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<tr>
<td>TOTAL FATALITIES</td>
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<td>2</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL RECORDABLES</td>
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<td>141</td>
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<tr>
<td>MTO INCIDENCE RATE</td>
<td>0.12</td>
<td>0.16</td>
<td>0.13</td>
</tr>
<tr>
<td>RWC INCIDENCE RATE</td>
<td>0.23</td>
<td>0.13</td>
<td>0.19</td>
</tr>
<tr>
<td>LTI INCIDENCE RATE</td>
<td>0.19</td>
<td>0.26</td>
<td>0.22</td>
</tr>
<tr>
<td>LTI FREQUENCY RATE</td>
<td>0.97</td>
<td>1.28</td>
<td>1.09</td>
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<tr>
<td>DART INCIDENCE RATE</td>
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<td>0.41</td>
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<td>DART FREQUENCY RATE</td>
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<td>1.92</td>
<td>2.03</td>
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<tr>
<td>RECORDABLE INCIDENCE RATE</td>
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<td>0.54</td>
<td>0.54</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>2.69</td>
<td>2.71</td>
<td>2.70</td>
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MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 8  Water – 14

South America Total LTI & Recordable Incidence Rates vs Man-hours (Figure 11)
IADC 2014 US Totals (Table 12)

<table>
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<tr>
<th>Category</th>
<th>LAND</th>
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<td>234</td>
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<tr>
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<td>0</td>
<td>10</td>
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<tr>
<td>TOTAL RECORDABLES</td>
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<td>932</td>
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<td>MTO INCIDENCE RATE</td>
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<td>0.32</td>
<td>0.53</td>
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<tr>
<td>RWC INCIDENCE RATE</td>
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<td>0.18</td>
<td>0.42</td>
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<td>LTI INCIDENCE RATE</td>
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<td>0.34</td>
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<td>LTI FREQUENCY RATE</td>
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<td>1.29</td>
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<tr>
<td>RECORDABLE FREQUENCY RATE</td>
<td>7.72</td>
<td>3.19</td>
<td>6.43</td>
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MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS
DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS
RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 34; Water – 15

US Total LTI & Recordable Incidence Rates vs Man-hours (Figure 12)