IADC

IADC ISP PROGRAM

2013

Summary of Occupational Incidents
(US Water Totals)

Issued 20 May 2014
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### IADC 2013 US Water Totals (Table 1)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>43,216,007</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>72</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>65</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>32</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>169</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incident Rate</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.33</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.30</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.15</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.74</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.45</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>2.24</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.78</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>3.91</td>
</tr>
</tbody>
</table>

Companies Reporting: Water – 15

- Medical Treatment Incidence Rate = MTOs X 200,000
- Restricted Work Incidence Rate = RWCs X 200,000
- Lost Time Incidence Rate = LTIs + FTLs X 200,000
- Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
- DART Incidence Rate = LTIs + RWC X 200,000
- DART Frequency Rate = LTIs + RWC X 1,000,000
- Recordable Incidence Rate = RCRD X 200,000
- Recordable Frequency Rate = RCRD X 1,000,000

### US Water Total LTI & Recordable Incidence Rates vs Man-hours (Figure 1)

![Graph showing US Water Total LTI & Recordable Incidence Rates vs Man-hours](image-url)
IADC 2013 US Water Charts
US Water Total Lost Time Incidents by Month (Chart 1)
Based on 31 Incidents

- December 3.23%
- November 16.13%
- October 12.90%
- September 3.23%
- August 3.23%
- July 9.68%
- June 3.23%
- May 6.45%
- March 25.81%
- February 12.90%
- January 3.23%
- May 6.45%
- March 25.81%
- February 12.90%
- January 3.23%
- December 3.23%
- November 16.13%
- October 12.90%
- September 3.23%
- August 3.23%
- July 9.68%
- June 3.23%
- May 6.45%
- March 25.81%
- February 12.90%
- January 3.23%
- December 3.23%
- November 16.13%
- October 12.90%
- September 3.23%
- August 3.23%
- July 9.68%
- June 3.23%
- May 6.45%
- March 25.81%
- February 12.90%
- January 3.23%
US Water Total Recordable Incidents by Month (Chart 2)
Based on 160 Incidents

- December: 4.38%
- November: 10.00%
- October: 10.00%
- September: 6.25%
- August: 7.50%
- July: 6.88%
- June: 12.50%
- May: 6.88%
- April: 8.13%
- March: 10.00%
- February: 8.75%
- January: 8.75%
US Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 31 Incidents

- Floorman: 35.48%
- Roustabout (Lease Hand): 29.03%
- Driller (Asst. Dr.): 3.23%
- Motorman: 3.23%
- Crane / Forklift Operator: 3.23%
- Mechanic: 6.45%
- Subsea Engineer: 6.45%
- Marine Crew: 3.23%
- Other: 3.23%
- Derrickman: 6.45%
- Subsea Engineer: 6.45%
US Water Total Recordable Incidents by Occupation (Chart 4)
Based on 160 Incidents

- Roustabout (Lease Hand): 33.75%
- Floorman: 26.25%
- Derrickman: 5.00%
- Other: 15.00%
- Marine Crew: 1.25%
- Driller (Asst. Dr.): 3.13%
- Derrickman: 5.00%
- Toolpusher (Asst.TP, Tourpusher): 1.88%
- Electrician: 1.25%
- Motorman: 1.25%
- Mechanic: 3.75%
- Crane / Forklift Operator: 1.88%
- Welder: 0.63%
- Deck Supervisor (Deck Coordinator): 0.63%
- Subsea Engineer: 4.38%
US Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 31 Incidents

- Back: 6.45%
- Head: 6.45%
- Hand(s) / Wrist(s): 3.23%
- Finger(s): 16.13%
- Leg(s): 3.23%
- Shoulder(s): 6.45%
- Knee(s): 19.35%
- Feet/Ankles: 22.58%
- Trunk/Torso (chest, abdomen, groin): 9.68%
- Elbow(s): 3.23%
- Other: 3.23%
US Water Total Recordable Incidents by Body Part (Chart 6)
Based on 160 Incidents

- Finger(s) 28.75%
- Hand(s) / Wrist(s) 11.25%
- Leg(s) 3.75%
- Feet/Ankles 13.75%
- Shoulder(s) 5.63%
- Neck 1.88%
- Toes 1.25%
- Arm(s) 1.25%
- Elbow(s) 0.63%
- Knee(s) 6.88%
- Other 3.13%
- Eyes (eyelid) 1.88%
- Head 13.13%
- Back 2.50%
- Trunk/Torso (chest, abdomen, groin) 4.38%
US Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 31 Incidents

- Struck By: 35.48%
- Caught Between/In: 19.35%
- Slip/Fall: Different Level: 9.68%
- Strain/Overexertion: 6.45%
- Slip/Fall: Same Level: 3.23%
- Caught On: 3.23%
- Flame/heat/steam (contact/exposed): 6.45%
- Other: 9.68%
- Struck Against: 6.45%
US Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 160 Incidents

- Struck Against: 8.75%
- Caught Between/In: 25.00%
- Slip/Fall: Same Level: 4.38%
- Slip/Fall: Different Level: 5.00%
- Flame/heat/steam (contact/exposed): 1.25%
- Contact With Chemicals/Fluids: 2.50%
- Strain/Overexertion: 8.13%
- Debris: 0.63%
- Other: 10.63%
- Sprain: 2.50%
- Cut: 4.38%
- Struck By: 25.63%
- Caught On: 1.25%
- Struck Against: 8.75%
US Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 31 Incidents

- Boat Cargo (skids, tubulars, containers, etc.) 3.23%
- Decks (grating, walkway) 3.23%
- Ladders 3.23%
- Crane 12.90%
- Pressure Hoses/Lines 12.90%
- Trans.-Boat 6.45%
- Iron Roughneck, Pipe Spinner, etc. 3.23%
- Pipes/Collars/Tubulars/Csg. 22.58%
- Slings (rope, cable, chain, web) 9.68%
- Hand Tools: Manual 3.23%
- Material 6.45%
- Tongs 3.23%
- Other 9.68%
US Water Total Recordable Incidents by Equipment (Chart 10)
Based on 160 Incidents

- Boat Cargo (skids, tubulars, containers, etc.): 2.50%
- Rig Floor Winch/Deck Winch (air/hydraulic): 1.25%
- Anchor Chains/Cables/Winches: 0.63%
- Top Drive (blocks, swivel, kelly): 1.88%
- Chemicals (sack, drum, pail, bulk hopper): 1.88%
- Crane: 6.25%
- Pressure Hoses/Lines: 3.75%
- Material: 5.63%
- BOP Stack (well head, tree): 1.88%
- Elevators: 1.25%
- Slips (drill collar clamp): 1.25%
- Iron Roughneck, Pipe Spinner, etc.: 1.25%
- Rotary: 0.63%
- Pipes/Collars/Tubulars/Csg.: 15.63%
- Slings (rope, cable, chain, web): 5.00%
- Hand Tools: Manual: 10.00%
- Hand Tools: Power: 2.50%
- Engines/Pumps/Machinery: 1.25%
- Boat: 3.13%
- Kelly Bushings (master bushings): 0.63%
- Decks (grating, walkway): 2.50%
- Ladders: 0.63%
- Forklift: 0.63%
- Tongs: 1.88%
- Other: 26.25%
US Water Total Lost Time Incidents by Operation (Chart 11)
Based on 31 Incidents

- Laying Down/Picking up Tubulars: 19.35%
- Routine Drilling Oper.: 9.68%
- Tripping in/out: 19.35%
- Material Handling: Manual: 12.90%
- Equipment Repairs or Maintenance: 16.13%
- Material Handling: Crane/Cherry Picker: 6.45%
- Travel/Transportation: 6.45%
- Other: 6.45%
- Running Casing/Tubing: 3.23%
- Routine Drilling Oper.
US Water Total Recordable Incidents by Operation (Chart 12)
Based on 160 Incidents

- BOP Stack Install/Maintenance: 5.63%
- Equipment Repairs or Maintenance: 11.88%
- Walking: 5.63%
- Mud Mixing/Pumping: 0.63%
- Training: 0.63%
- BOP Stack Install/Maintenance: 5.63%
- Rigging Up/Down: 4.38%
- Making Connection: 0.63%
- Routine Drilling Oper.: 5.00%
- Running Casing/Tubing: 3.13%
- Laying Down/Picking up Tubulars: 10.00%
- Material Handling: Manual: 11.25%
- Material Handling: Crane/Cherry Picker: 10.00%
- Material Handling: Forklift: 0.63%
- Other: 11.88%
- Tripping in/out: 12.50%
- Travel/Transportation: 3.75%
US Water Total Lost Time Incidents by Location (Chart 13)
Based on 31 Incidents

- Rig Floor: 35.48%
- Catwalk/V-door: 3.23%
- Derrick/Mast: 6.45%
- Mud Mixing Tank/Area: 6.45%
- BOP Stack /well head/tree Area: 3.23%
- Stairs/Ladders: 6.45%
- Crew/Work Boats: 6.45%
- Other: 12.90%

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US Water Total Recordable Incidents by Location (Chart 14)
Based on 160 Incidents

- Forklift: 0.63%
- Cellar/Sub/Moonpool: 1.25%
- Crew/Work Boats: 5.63%
- Living/Camp Areas/Accommodations: 1.25%
- Work Rooms change, storage, room: 1.25%
- Rig Pad/Rig Decks: 2.50%
- Stairs/Ladders: 1.88%
- Engine Generator Room: 0.63%
- Mud Pits/Tanks: 1.25%
- Shale Shaker: 1.25%
- Mud Mixing Tank/Area: 3.75%
- BOP Stack/well head/tree Area: 7.50%
- Derrick/Mast: 3.13%
- Catwalk/V-door: 1.25%
- Rig Floor: 27.50%
- Pipe Rack/Pipe Deck: 16.88%
- BOP Stack/well head/tree Area: 7.50%
- Derrick/Mast: 3.13%
- Catwalk/V-door: 1.25%
- Rig Floor: 27.50%
- Pipe Rack/Pipe Deck: 16.88%
- Other: 17.50%
US Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 31 Incidents

- >6 mos. < 1 yr. 16.13%
- >3 mos. < 6 mos. 3.23%
- 0 mo. < 3 mos. 19.35%
- >1 yr. < 5 yrs. 54.84%
- 10+ yrs. 6.45%
- >1 yr. < 5 yrs. 54.84%

Based on 31 Incidents
US Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 159 Incidents

- >6 mos. < 1 yr. 19.50%
- >3 mos. < 6 mos. 10.06%
- >6 mos. < 1 yr. 10.06%
- >1 yr. < 5 yrs. 49.69%
- >5 yrs. < 10 yrs. 4.40%
- >10 yrs. 6.29%
- 0 mo. < 3 mos. 10.06%
- >3 mos. < 6 mos. 10.06%
- >1 yr. < 5 yrs. 49.69%
US Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 31 Incidents

- 7:00: 9.68%
- 8:00: 3.23%
- 9:00: 3.23%
- 10:00: 6.45%
- 11:00: 3.23%
- 12:00: 6.45%
- 13:00: 3.23%
- 14:00: 6.45%
- 15:00: 3.23%
- 16:00: 6.45%
- 17:00: 12.90%
- 18:00: 6.45%
- 19:00: 3.23%
- 20:00: 6.45%
- 21:00: 3.23%
- 22:00: 3.23%
- 23:00: 3.23%
- 24:00: 6.45%
- 1:00: 6.45%
- 2:00: 9.68%
US Water Total Recordable Incidents by Time of Day (Chart 18)

Based on 157 Incidents

- 9:00: 3.82%
- 8:00: 3.82%
- 7:00: 4.46%
- 6:00: 4.46%
- 5:00: 2.55%
- 4:00: 3.18%
- 3:00: 1.27%
- 2:00: 6.37%
- 1:00: 6.37%
- 24:00: 1.91%
- 23:00: 1.27%
- 22:00: 4.46%
- 21:00: 3.82%
- 20:00: 1.91%
- 19:00: 2.55%
- 18:00: 5.73%
- 17:00: 6.37%
- 16:00: 5.73%
- 15:00: 3.82%
- 14:00: 5.10%
- 13:00: 6.37%
- 12:00: 3.18%
- 11:00: 8.28%
- 10:00: 3.18%