IADC

IADC
ISP PROGRAM

2015

Summary of Occupational Incidents
(European Water Totals)

Issued 15 July 2016
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## IADC 2015 European Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
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<tr>
<td>Total Man-hours</td>
<td>36,544,080</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td></td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td></td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td></td>
</tr>
<tr>
<td>Total Fatalities</td>
<td></td>
</tr>
<tr>
<td>Total Recordables</td>
<td>116</td>
</tr>
</tbody>
</table>

### Incidence Rates

- **MTO Incidence Rate**: 0.23
- **RWC Incidence Rate**: 0.22
- **LTI Incidence Rate**: 0.19
- **LTI Frequency Rate**: 0.93
- **DART Incidence Rate**: 0.40
- **DART Frequency Rate**: 2.02
- **Recordable Incidence Rate**: 0.63
- **Recordable Frequency Rate**: 3.17

### Companies Reporting:

- Water – 23

### Incidence Rate Formulas:

- 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
- DART Incidence Rate = LTIs + RWC X 200,000
- Recordable Incidence Rate = RCRD X 200,000

### Figure 1: European Water Total Incidence Rates vs Man-hours

- **LTI Rate**
- **Rec. Rate**
- **DART Rate**
- **Man-hours**

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IADC 2015 European Water Charts
European Water Total Lost Time Incidents by Month (Chart 1)
Based on 34 Incidents

- October: 5.88%
- November: 17.65%
- September: 5.88%
- August: 11.76%
- July: 5.88%
- June: 2.94%
- May: 11.76%
- April: 11.76%
- March: 8.82%
- February: 11.76%
- January: 2.94%
- December: 2.94%
European Water Total Recordable Incidents by Month (Chart 2)
Based on 116 incidents

- January: 6.03%
- February: 11.21%
- March: 7.76%
- April: 13.79%
- May: 8.62%
- June: 4.31%
- July: 4.31%
- August: 12.93%
- September: 5.17%
- October: 9.48%
- November: 9.48%
- December: 6.03%
European Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 34 Incidents

- Roustabout (Lease Hand) 32.35%
- Floorman 23.53%
- Derrickman 5.88%
- Driller (Asst. Dr.) 2.94%
- Toolpusher (Asst.TP, Tourpusher) 2.94%
- Motorman 2.94%
- Mechanic (Repair Technician) 8.82%
- Crane Operator (Forklift Operator) 5.88%
- Superintendent/other Supervisors 2.94%
- Deck Supervisor (Deck Coordinator) 2.94%
- Subsea Engineer 2.94%
- Marine Crew 2.94%
- Welder 2.94%
- Mechanic 2.94%
European Water Total Recordable Incidents by Occupation (Chart 4)
Based on 116 Incidents

- Roustabout (Lease Hand): 31.90%
- Floorman: 22.41%
- Derrickman: 11.21%
- Driller (Asst. Dr.): 3.45%
- Deck Supervisor (Deck Coordinator): 4.31%
- Subsea Engineer: 1.72%
- Marine Crew: 0.86%
- Rig Helper: 0.86%
- Superintendent/other Supervisors: 2.59%
- Barge Engineer/Ballast Control Op.: 0.86%
- Crane / Forklift Operator: 2.59%
- Mechanic: 9.48%
- Motorman: 0.86%
- Electrician: 1.72%
- Toolpusher (Asst.TP, Tourpusher): 0.86%
European Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 34 Incidents

- Finger(s) 26.47%
- Hand(s) / Wrist(s) 5.88%
- Arm(s) 2.94%
- Shoulder(s) 5.88%
- Eyes (eyelid) 2.94%
- Eyelid 2.94%
- Back 8.82%
- Head 11.76%
- Trunk/Torso (chest, abdomen, groin) 14.71%
- Feet/Ankles 17.65%
- Leg(s) 2.94%
European Water Total Recordable Incidents by Body Part (Chart 6)
Based on 116 incidents

- Finger(s) 33.62%
- Hand(s) / Wrist(s) 7.76%
- Arm(s) 1.72%
- Shoulders 6.03%
- Neck 0.86%
- Toes 0.86%
- Eyes (eyelid) 6.90%
- Skin 0.86%
- Elbow(s) 0.86%
- Knee(s) 0.86%
- Back 4.31%
- Trunk/Torso (chest, abdomen, groin) 4.31%
- Feet/Ankles 16.38%
- Leg(s) 1.72%
- Head 12.93%
European Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 33 Incidents

- Caught Between/In: 36.36%
- Struck By: 15.15%
- Struck Against: 12.12%
- Slip/Fall: Same Level: 12.12%
- Slip/Fall: Different Level: 18.18%
- Strain/Overexertion: 3.03%
- Cut: 3.03%
European Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 113 Incidents

- Cut: 12.39%
- Sprain: 1.77%
- Debris: 3.54%
- Electrical Shock: 1.77%
- Contact With Chemicals/Fluids: 1.77%
- Strain/Overexertion: 4.42%
- Slip/Fall: Different Level: 6.19%
- Struck By: 23.01%
- Struck Against: 6.19%
- Caught Between/In: 25.66%
- Slip/Fall: Same Level: 13.27%
- Debris: 3.54%
- Cut: 12.39%
- Sprain: 1.77%
- Debris: 3.54%
- Electrical Shock: 1.77%
- Contact With Chemicals/Fluids: 1.77%
- Strain/Overexertion: 4.42%
- Slip/Fall: Different Level: 6.19%
- Struck By: 23.01%
- Struck Against: 6.19%
- Caught Between/In: 25.66%
- Slip/Fall: Same Level: 13.27%
European Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 33 Incidents

- Boat Cargo (skids, tubulars, containers, etc.) 6.06%
- Top Drive (blocks, swivel, kelly) 6.06%
- Crane 15.15%
- Pipes/Collars/Tubulars/Csg. 15.15%
- Slings (rope, cable, chain, web) 6.06%
- Hand Tools: Manual 6.06%
- Hand Tools: Power 3.03%
- Kelly Bushings (master bushings) 3.03%
- Pressure Hoses/Lines 3.03%
- Material 9.09%
- Decks (grating, walkway) 15.15%
- Ladders 3.03%
- Forklift 3.03%
- Stairs 6.06%
European Water Total Recordable Incidents by Equipment (Chart 10)
Based on 109 Incidents

- Material: 15.60%
- BOP Stack (well head, tree): 2.75%
- Stairs: 3.67%
- Kelly Bushings (master bushings): 1.83%
- Cathead/Drawworks: 1.83%
- Slings (rope, cable, chain, web): 3.67%
- Elevators: 0.92%
- Engines/Pumps/Machinery: 4.59%
- Hand Tools: Power: 2.75%
- Pressure Hoses/Lines: 1.83%
- Forklift: 1.83%
- Ladders: 1.83%
- Crane: 8.26%
- Engineering, Cutting, Grinding Equipment: 2.75%
- Rig Floor Winch/Deck Winch (air/hydraulic): 2.75%
- Boat Cargo (skids, tubulars, containers, etc.): 2.75%
- Top Drive (blocks, swivel, kelly): 2.75%
- Anchor Chains/Cables/Winches: 0.92%
- Welding, Cutting, Grinding Equipment: 2.75%
- Iron Roughneck, Pipe Spinner, etc.: 1.83%
- Iron Roughneck, Pipe Spinner, etc.: 1.83%
- Pipes/Collars/Tubulars/Csg.: 10.09%
- Cathead/Drawworks: 1.83%
- Slings (rope, cable, chain, web): 3.67%
- Hand Tools: Manual: 10.09%
- Bread, Cakes, Donuts: 1.83%
- Elevators: 0.92%
- Pressure Hoses/Lines: 1.83%
- Ladders: 1.83%
- Crane: 8.26%
- Materials: 15.60%
European Water Total Lost Time Incidents by Operation (Chart 11)
Based on 34 Incidents

- Rigging Up/Down: 11.76%
- Material Handling: Crane/Cherry Picker: 17.65%
- Material Handling: Manual: 5.88%
- Laying Down/Picking up Tubulars: 2.94%
- Running Casing/Tubing: 5.88%
- Equipment Repairs or Maintenance: 14.71%
- Routine Drilling Oper.: 14.71%
- Tripping in/out: 8.82%
- Walking: 11.76%
- Material Handling: Forklift: 2.94%
- BOP Stack Install/Maintenance: 2.94%
European Water Total Recordable Incidents by Operation (Chart 12)
Based on 114 Incidents

- Walking: 10.53%
- Equipment Repairs or Maintenance: 25.44%
- Rigging Up/Down: 7.02%
- Tripping in/out: 7.02%
- Making Connection: 0.88%
- Making Connection: Rig Floor Winch: 1.75%
- Material Handling: Forklift: 1.75%
- BOP Stack Install/Maintenance: 3.51%
- Routine Drilling: 13.16%
- Running Casing/Tubing: 3.51%
- Laying Down/Picking up Tubulars: 3.51%
- Material Handling: Manual: 12.28%
- Material Handling: Crane/Cherry Picker: 9.65%
- Material Handling: Rig Floor Winch: 1.75%
European Water Total Lost Time Incidents by Location (Chart 13)
Based on 34 Incidents

<table>
<thead>
<tr>
<th>Location</th>
<th>Incidents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rig Pad/Rig Decks</td>
<td>29.41%</td>
</tr>
<tr>
<td>Stairs/Ladders</td>
<td>5.88%</td>
</tr>
<tr>
<td>Cellar / Sub / Moonpool</td>
<td>2.94%</td>
</tr>
<tr>
<td>Machinery Spaces</td>
<td>2.94%</td>
</tr>
<tr>
<td>Shale Shaker</td>
<td>2.94%</td>
</tr>
<tr>
<td>Rig Floor</td>
<td>14.71%</td>
</tr>
<tr>
<td>Mud Pump Room</td>
<td>2.94%</td>
</tr>
<tr>
<td>Mud Mixing Tank/Area</td>
<td>2.94%</td>
</tr>
<tr>
<td>Derrick/Mast</td>
<td>8.82%</td>
</tr>
<tr>
<td>BOP Stack / well head/tree Area</td>
<td>5.88%</td>
</tr>
<tr>
<td>Pipe Rack/ Pipe Deck</td>
<td>17.65%</td>
</tr>
</tbody>
</table>
European Water Total Recordable Incidents by Location (Chart 14)
Based on 115 Incidents

- Rig Pad/Rig Decks: 20.87%
- Rig Floor: 22.61%
- Catwalk/V-door: 1.74%
- Derrick/Mast: 5.22%
- BOP Stack /well head/tree Area: 4.35%
- Mud Mixing Tank/Area: 0.87%
- Shale Shaker: 2.61%
- Engine Generator Room: 0.87%
- SCR/Electrical Room: 0.87%
- Cellar / Sub / Moonpool: 5.22%
- Machinery Spaces: 3.48%
- Living/Camp Areas/Accommodations: 3.48%
- Work Rooms change, storage, room: 4.35%
- Jacking House: 0.87%
- Forklift: 0.87%
- Pipe Rack/Pipe Deck: 15.65%
European Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 31 Incidents

- 10+ yrs. 9.68%
- >5 yrs. < 10 yrs. 16.13%
- >1 yr. < 5 yrs. 64.52%
- >6 mos. < 1 yr. 6.45%
- 0 mo. < 3 mos. 3.23%
- 0 mo. < 3 mos. 3.23%
European Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 110 Incidents

- >1 yr. < 5 yrs. 63.64%
- >5 yrs. < 10 yrs. 14.55%
- >1 yr. < 5 yrs. 63.64%
- >6 mos. < 1 yr. 5.45%
- >3 mos. < 6 mos. 0.91%
- 0 mo. < 3 mos. 2.73%
- >10 yrs. 12.73%
- 12.73%

10+ yrs.
European Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 31 Incidents

- 15:00 - 3.23%
- 14:00 - 16.13%
- 16:00 - 3.23%
- 17:00 - 3.23%
- 18:00 - 6.45%
- 21:00 - 3.23%
- 20:00 - 6.45%
- 22:00 - 9.68%
- 24:00:00 - 3.23%
- 2:00 - 6.45%
- 5:00 - 3.23%
- 6:00 - 3.23%
- 7:00 - 3.23%
- 8:00 - 9.68%
- 9:00 - 3.23%
- 10:00 - 6.45%
- 11:00 - 6.45%
- 12:00:00 - 3.23%
- 13:00:00 - 3.23%
- 14:00:00 - 16.13%
European Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 111 Incidents

- 24:00:00 - 3.60%
- 23:00 - 3.60%
- 22:00 - 3.60%
- 21:00 - 4.50%
- 20:00 - 3.60%
- 19:00 - 4.50%
- 18:00 - 8.11%
- 17:00 - 3.60%
- 16:00 - 3.60%
- 15:00 - 5.41%
- 14:00 - 8.11%
- 13:00 - 2.70%
- 12:00 - 5.41%
- 11:00 - 6.31%
- 10:00 - 7.21%
- 9:00 - 3.60%
- 8:00 - 8.11%
- 7:00 - 3.60%
- 6:00 - 1.80%
- 5:00 - 4.50%
- 4:00 - 2.70%
- 3:00 - 3.60%
- 2:00 - 3.60%
- 1:00 - 1.80%
- 0:00 - 3.60%
European Water Total Lost Time Incidents by Age (Chart 19)
Based on 28 Incidents

- 36 - 45: 42.86%
- 26 - 35: 28.57%
- 18 - 25: 10.71%
- 56 - 65: 3.57%
- 46 - 55: 14.29%
European Water Total Recordable Incidents by Age (Chart 20)
Based on 96 Incidents

- 26 - 35: 40.63%
- 26 - 35: 40.63%
- 18 - 25: 12.50%
- 36 - 45: 29.17%
- 46 - 55: 13.54%
- 56 - 65: 4.17%