IADC

IADC
ISP PROGRAM

2013

Summary of Occupational Incidents
(European Water Totals)

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

<table>
<thead>
<tr>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>38,707,108</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>79</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>33</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>52</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>164</td>
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</table>

<table>
<thead>
<tr>
<th>Rate</th>
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<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.41</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.17</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.27</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.34</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.44</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>2.20</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.85</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>4.24</td>
</tr>
</tbody>
</table>

Companies Reporting: Water – 20

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

Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Frequency Rate = RCRD X 1,000,000

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

![Graph showing Incidence Rates vs Man-hours](image)
IADC 2013 European Water Charts
European Water Total Lost Time Incidents by Month (Chart 1)
Based on 48 Incidents

- October: 10.42%
- November: 18.75%
- September: 6.25%
- August: 4.17%
- July: 6.25%
- June: 12.50%
- May: 8.33%
- April: 8.33%
- March: 10.42%
- February: 6.25%
- January: 2.08%
- December: 6.25%
- November: 18.75%
European Water Total Recordable Incidents by Month (Chart 2)
Based on 155 Incidents

- August: 9.03%
- September: 7.74%
- October: 10.97%
- November: 10.32%
- December: 7.74%
- January: 6.45%
- February: 6.45%
- March: 4.52%
- April: 7.10%
- May: 8.39%
- June: 11.61%
- July: 9.68%

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European Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 48 Incidents

- Roustabout (Lease Hand): 33.33%
- Floorman: 16.67%
- Derrickman: 4.17%
- Driller (Asst. Dr.): 8.33%
- Catering Personnel (Camp Staff): 4.17%
- Crane Operator (Forklift Operator): 4.17%
- Electrician (Electronic Technician): 2.08%
- Motorman: 2.08%
- Barge Engineer/Ballast Control Op.: 2.08%
- Deck Supervisor (Deck Coordinator): 2.08%
- Subsea Engineer: 2.08%
- Other: 14.58%
- Mechanic (Repair Technician): 4.17%
- Deck Supervisor (Deck Coordinator): 2.08%
European Water Total Recordable Incidents by Occupation (Chart 4)
Based on 155 Incidents

- Other: 17.42%
- Roustabout (Lease Hand): 24.52%
- Floorman: 16.77%
- Derrickman: 8.39%
- Driller (Asst. Dr.): 5.16%
- Electrician: 5.16%
- Mechanic: 5.16%
- Motorman: 1.29%
- Toolpusher (Asst. TP, Tourpusher): 0.65%
- Deck Supervisor (Deck Coordinator): 1.94%
- Catering / Camp Personnel: 3.87%
- Welder: 3.23%
- Rig Helper: 1.94%
- Superintendent/other Supervisors: 1.29%
- Barge Engineer/Ballast Control Op.: 0.65%
- Crane / Forklift Operator: 3.23%
- Subsea Engineer: 2.58%
- Rig Helper: 1.94%
- Catering / Camp Personnel: 3.87%
- Welder: 3.23%
European Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 48 Incidents

- Finger(s) 27.08%
- Legs 12.50%
- Feet/Ankles 20.83%
- Shoulders 4.17%
- Shoulders 4.17%
- Head 6.25%
- Back 4.17%
- Trunk/Torso (chest, abdomen, groin) 4.17%
- Hand(s) / Wrist(s) 4.17%
- Arm(s) 2.08%
- Digestive/Internal 2.08%
- Eyes (eyelid) 2.08%
- Other 2.08%
- Skin 2.08%
- Skin 2.08%
- Skin 2.08%
- Toe(s) 4.17%
European Water Total Recordable Incidents by Body Part (Chart 6)
Based on 155 Incidents

- Finger(s): 30.32%
- Hand(s) / Wrist(s): 5.16%
- Arm(s): 3.23%
- Digestive/Internal: 1.29%
- Other: 1.29%
- Eyes (eyelid): 5.81%
- Head: 9.03%
- Back: 7.10%
- Trunk/Torso (chest, abdomen, groin): 5.16%
- Lungs/Respiratory: 0.65%
- Skin: 0.65%
- Shoulder(s): 3.23%
- Elbow(s): 0.65%
- Neck: 0.65%
- Toes: 1.94%
- Feet/Ankles: 12.90%
- Leg(s): 7.74%
- Trunk/Torso (chest, abdomen, groin): 5.16%
European Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 48 Incidents

- Slip/Fall: Different Level: 10.42%
- Strain/Overexertion: 6.25%
- Contact With Chemicals/Fluids: 2.08%
- Cut: 6.25%
- Other: 6.25%
- Struck By: 12.50%
- Struck Against: 14.58%
- Caught Between/In: 29.17%
- Slip/Fall: Same Level: 6.25%
- Sprain: 4.17%
- Debris: 2.08%
European Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 154 Incidents

- Struck By: 14.94%
- Struck Against: 9.74%
- Caught Between/In: 25.97%
- Slip/Fall: Same Level: 11.04%
- Strain/Overexertion: 11.04%
- Slip/Fall: Different Level: 5.19%
- Sprain: 1.95%
- Other: 7.14%
- Contact With Chemicals/Fluids: 1.30%
- Debris: 4.55%
- Flame/heat/steam (contact/exposed): 0.65%
- Cut: 5.84%
- Exposure to Gas: 0.65%
- Cut: 5.84%
- Debris: 4.55%
- Flame/heat/steam (contact/exposed): 0.65%
- Contact With Chemicals/Fluids: 1.30%
- Strain/Overexertion: 11.04%
- Slip/Fall: Same Level: 11.04%
European Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 48 Incidents

- Boat Cargo (skids, tubulars, containers, etc.): 4.17%
- Top Drive (blocks, swivel, kelly): 2.08%
- Chemicals (sack, drum, pail, bulk hopper): 2.08%
- Welding, Cutting, Grinding Equipment: 2.08%
- Decks (grating, walkway): 8.33%
- Ladders: 6.25%
- Crane: 6.25%
- Pressure Hoses/Lines: 4.17%
- Material: 2.08%
- Elevators: 2.08%
- Tongs: 2.08%
- Rotary: 4.17%
- Pipes/Collars/Tubulars/Csg.: 8.33%
- Slings (rope, cable, chain, web): 10.42%
- Hand Tools: Manual: 8.33%
- Hand Tools: Power: 2.08%
- Engines/Pumps/Machinery: 2.08%
- Stairs: 4.17%
- Other: 18.75%
European Water Total Recordable Incidents by Equipment (Chart 10)
Based on 153 Incidents

- Other 26.80%
- Boat Cargo (skids, tubulars, containers, etc.) 3.27%
- Rig Floor Winch/Deck Winch (air/hydraulic) 0.65%
- Anchor Chains/Cables/Winches 0.65%
- Top Drive (blocks, swivel, kelly) 1.31%
- Chemicals (sack, drum, pail, bulk hopper) 1.31%
- Welding, Cutting, Grinding Equipment 2.61%
- Ladders 2.61%
- Decks (grating, walkway) 9.15%
- Crane 3.92%
- Pressure Hoses/Lines 3.27%
- Material 4.58%
- BOP Stack (well head, tree) 0.65%
- Engines/Pumps/Machinery 2.61%
- Stairs 1.96%
- Elevators 1.96%
- Iron Roughneck, Pipe Spinner, etc. 0.65%
- Rotary 1.31%
- Pipes/Collars/Tubulars/Csg. 5.88%
- Slings (rope, cable, chain, web) 5.88%
- Hand Tools: Manual 7.84%
- Hand Tools: Power 3.27%
- Tongs 5.23%
- Elevators 1.96%
- Slips (drill collar clamp) 2.61%
- Iron Roughneck, Pipe Spinner, etc. 0.65%
- Rotary 1.31%
- Pipes/Collars/Tubulars/Csg. 5.88%
- Slings (rope, cable, chain, web) 5.88%
- Hand Tools: Manual 7.84%
- Hand Tools: Power 3.27%
- Tongs 5.23%
- Elevators 1.96%
- Slips (drill collar clamp) 2.61%
European Water Total Lost Time Incidents by Operation (Chart 11)
Based on 48 Incidents

- Routine Drilling Oper. 18.75%
- Material Handling: Manual 10.42%
- Making Connection 6.25%
- Laying Down/Picking up Tubulars 6.25%
- Material Handling: Crane/Cherry Picker 4.17%
- Rigging Up/Down 4.17%
- Equipment Repairs or Maintenance 18.75%
- Walking 10.42%
- Painting (painting related tasks) 2.08%
- Handling Riser 2.08%
- Other 16.67%
European Water Total Recordable Incidents by Operation (Chart 12)
Based on 153 Incidents

- Routine Drilling Oper.: 12.42%
- Making Connection: 3.92%
- Rigging Up/Down: 1.96%
- Laying Down/Picking up Tubulars: 3.92%
- BOP Stack Install/Maintenance: 1.31%
- Mud Mixing/Pumping: 1.31%
- Equipment Repairs or Maintenance: 15.69%
- Special Operations: 0.65%
- Cementing: 1.31%
- Painting (painting related tasks): 0.65%
- Abrasive Blasting/Paint/Scale Removal: 0.65%
- Training: 0.65%
- Walking: 15.03%
- Handling Riser: 1.31%
- Running/Retrieving Anchors: 0.65%
- Travel/Transportation: 1.96%
- Other: 15.69%
- Tripping in/out: 3.92%
European Water Total Lost Time Incidents by Location (Chart 13)
Based on 48 Incidents

Rig Floor: 27.08%
Pipe Rack/Pipe Deck: 12.50%
Catwalk/V-door: 6.25%
Derrick/Mast: 2.08%
Mud Pump Room: 4.17%
Shale Shaker: 4.17%
Mud Mixing Tank/Area: 2.08%
BOP Stack/well head/tree Area: 2.08%
Stairs/Ladders: 4.17%
Cellar/Sub/Moonpool: 6.25%
Living/Camp Areas/Accommodations: 4.17%
Machinery Spaces: 2.08%
Rig Pad/Rig Decks: 4.17%
Other: 18.75%
European Water Total Recordable Incidents by Location (Chart 14)
Based on 154 Incidents

- Rig Floor: 29.87%
- Rig Pad/Rig Decks: 7.14%
- Work Rooms change, storage, room: 1.30%
- Cellar / Sub / Moonpool: 4.55%
- Living/Camp Areas/Accommodations: 5.19%
- Machinery Spaces: 1.95%
- Stairs/Ladders: 1.95%
- SCR/Electrical Room: 0.65%
- Engine Generator Room: 0.65%
- Mud Pits/Tanks: 1.30%
- Shale Shaker: 1.30%
- Mud Mixing Tank/Area: 2.60%
- BOP Stack / well head/tree Area: 1.95%
- Derrick/Mast: 1.30%
- Catwalk/V-door: 1.95%
- Pipe Rack/Pipe Deck: 13.64%
- Jacking House: 0.65%
- Pontoon: 0.65%
- Mud Pump Room: 3.90%
- Other: 17.53%
European Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 44 Incidents

- 10+ yrs. (9.09%)
- >5 yrs. < 10 yrs. (18.18%)
- >1 yr. < 5 yrs. (38.64%)
- >0 mo. < 3 mos. (9.09%)
- >3 mos. < 6 mos. (6.82%)
- >6 mos. < 1 yr. (18.18%)
European Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 137 Incidents

- >1 yr. < 5 yrs.: 14.60%
- >5 yrs. < 10 yrs.: 46.72%
- >6 mos. < 1 yr.: 10.95%
- >3 mos. < 6 mos.: 16.79%
- >6 mos. < 1 yr.: 6.57%
- 0 mo. < 3 mos.: 10.95%
- 10+ yrs.: 4.38%
European Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 46 Incidents

- 2:00: 6.52%
- 3:00: 4.35%
- 4:00: 2.17%
- 5:00: 8.70%
- 6:00: 2.17%
- 7:00: 10.87%
- 8:00: 4.35%
- 9:00: 6.52%
- 10:00: 6.52%
- 11:00: 2.17%
- 12:00: 6.52%
- 13:00: 6.52%
- 14:00: 4.35%
- 15:00: 8.70%
- 16:00: 4.35%
- 17:00: 4.35%
- 18:00: 4.35%
- 19:00: 6.52%
- 20:00: 4.35%
- 21:00: 8.70%
- 22:00: 6.52%
- 23:00: 2.17%
- 0:00: 4.35%

Chart represents the total lost time incidents by time of day, with each time slot indicating the percentage of incidents that occurred during that time.