Summary of Occupational Incidents
(European Water Totals)

Issued 1 July 2017
Table of Contents

IADC 2016 European Water Totals (Table 1)................................................................. 1
European Water Total Incidence Rates vs Man-hours (Figure 1) ..................................... 1
European Water Total Lost Time Incidents by Month (Chart 1)........................................ 2
European Water Total Recordable Incidents by Month (Chart 2)..................................... 3
European Water Total Lost Time Incidents by Occupation (Chart 3)................................. 4
European Water Total Recordable Incidents by Occupation (Chart 4)............................... 5
European Water Total Lost Time Incidents by Body Part (Chart 5)................................. 6
European Water Total Recordable Incidents by Body Part (Chart 6)................................. 7
European Water Total Lost Time Incidents by Incident Type (Chart 7)............................. 8
European Water Total Recordable Incidents by Incident Type (Chart 8)........................... 9
European Water Total Lost Time Incidents by Equipment (Chart 9)............................... 10
European Water Total Recordable Incidents by Equipment (Chart 10)............................. 11
European Water Total Lost Time Incidents by Operation (Chart 11)............................... 12
European Water Total Recordable Incidents by Operation (Chart 12).............................. 13
European Water Total Lost Time Incidents by Location (Chart 13)................................. 14
European Water Total Recordable Incidents by Location (Chart 14)............................... 15
European Water Total Lost Time Incidents by Time in Service (Chart 15)......................... 16
European Water Total Recordable Incidents by Time in Service (Chart 16)....................... 17
European Water Total Lost Time Incidents by Time of Day (Chart 17)............................ 18
European Water Total Recordable Incidents by Time of Day (Chart 18)........................... 19
European Water Total Lost Time Incidents by Age (Chart 19)........................................ 20
European Water Total Recordable Incidents by Age (Chart 20)..................................... 21
## IADC 2016 European Water Totals (Table 1)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>28,551,227</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>36</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>19</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>17</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>72</td>
</tr>
<tr>
<td>MTO Incidence Rate</td>
<td>0.25</td>
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<tr>
<td>RWC Incidence Rate</td>
<td>0.13</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.12</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.60</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.25</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.26</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.50</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>2.52</td>
</tr>
</tbody>
</table>

Companies Reporting: Water – 24

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 European Water Total Incidence Rates vs Man-hours](image-url)
IADC 2016 European Water Charts
European Water Total Lost Time Incidents by Month (Chart 1)
Based on 17 Incidents

- December: 5.88%
- November: 11.76%
- October: 5.88%
- July: 11.76%
- June: 5.88%
- May: 17.65%
- April: 5.88%
- March: 11.76%
- February: 23.53%
- December: 5.88%
European Water Total Recordable Incidents by Month (Chart 2)
Based on 71 Incidents

- January: 14.08%
- February: 12.68%
- March: 5.63%
- April: 2.82%
- May: 8.45%
- June: 8.45%
- July: 9.86%
- August: 7.04%
- September: 2.82%
- October: 8.45%
- November: 8.45%
- December: 11.27%
European Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 17 Incidents

- Floorman: 52.94%
- Roustabout (Lease Hand): 11.76%
- Mechanic (Repair Technician): 11.76%
- Crane Operator (Forklift Operator): 5.88%
- Rig Helper: 11.76%
- Maintenance Supervisor: 5.88%
European Water Total Recordable Incidents by Occupation (Chart 4)
Based on 71 Incidents

- Catering / Camp Personnel: 1.41%
- Roustabout (Lease Hand): 16.90%
- Floorman: 35.21%
- Derrickman: 4.23%
- Driller (Asst. Dr.): 4.23%
- Electrician: 2.82%
- Motorman: 2.82%
- Mechanic: 11.27%
- Crane / Forklift Operator: 7.04%
- Rig Helper: 8.45%
- Welder: 2.82%
- Maintenance Super: 2.82%
European Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 17 Incidents

Hand(s) / Wrist(s) 17.65%
Finger(s) 41.18%
Leg(s) 17.65%
Feet/Ankles 17.65%
Shoulder(s) 5.88%
European Water Total Recordable Incidents by Body Part (Chart 6)
Based on 71 Incidents

- Finger(s): 46.48%
- Hand(s) / Wrist(s): 12.68%
- Leg(s): 9.86%
- Feet/Ankles: 9.86%
- Back: 1.41%
- Arm(s): 1.41%
- Shoulder(s): 4.23%
- Eyes (eyelid): 5.63%
- Head: 7.04%
- Toes: 1.41%
- Based on 71 Incidents
European Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 17 Incidents

- Caught Between/In: 52.94%
- Struck Against: 11.76%
- Struck By: 17.65%
- Sprain: 5.88%
- Slip/Fall: Different Level: 5.88%
- Slip/Fall: Same Level: 5.88%
- Struck Against: 11.76%
- Caught Between/In: 52.94%
- Struck By: 17.65%
- Sprain: 5.88%
- Slip/Fall: Different Level: 5.88%
- Slip/Fall: Same Level: 5.88%
European Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 68 Incidents

- Struck By 11.76%
- Struck Against 4.41%
- Caught Between/In 36.76%
- Slip/Fall: Same Level 5.88%
- Slip/Fall: Different Level 7.35%
- Strain/Overexertion 4.41%
- Contact With Chemicals/Fluids 1.47%
- Debris 4.41%
- Cut 17.65%
- Sprain 1.47%
- Caught On 2.94%
- Other 1.47%
- Caught Between/In 36.76%
European Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 17 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 5.88%
- Tongs 5.88%
- Iron Roughneck, Pipe Spinner, etc. 17.65%
- Pipes/Collars/Tubulars/Csg. 5.88%
- Slings (rope, cable, chain, web) 5.88%
- Engines/Pumps/Machinery 5.88%
- Trans.-Boat 5.88%
- BOP Stack (well head, tree) 5.88%
- Material 5.88%
- Crane 5.88%
- Decks (grating, walkway) 29.41%
European Water Total Recordable Incidents by Equipment (Chart 10)
Based on 69 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 2.94%
- Boat Cargo (skids, tubulars, containers, etc.) 1.47%
- Tongs 1.47%
- Iron Roughneck, Pipe Spinner, etc. 4.41%
- Rotary 1.47%
- Pipes/Collars/Tubulars/Csg. 11.76%
- Cathead/Drawworks 1.47%
- Slings (rope, cable, chain, web) 2.94%
- Hand Tools: Manual 8.82%
- Hand Tools: Power 4.41%
- Engines/Pumps/Machinery 8.82%
- BOP Stack (well head, tree) 2.94%
- Stairs 5.88%
- Boat 1.47%
- Material 11.76%
- Crane 2.94%
- Pressure Hoses/Lines 2.94%
- Ladders 1.47%
- Forklift 1.47%
- Decks (grating, walkway) 13.24%
- Welding, Cutting, Grinding Equipment 2.94%
- Chemicals (sack, drum, pail, bulk hopper) 2.94%
- Bike 1.47%
- Stairs 1.47%
European Water Total Lost Time Incidents by Operation (Chart 11)
Based on 17 Incidents

- Mud Mixing/Pumping: 5.88%
- Material Handling: Crane/Cherry Picker: 5.88%
- Material Handling: Manual: 5.88%
- Walking: 17.65%
- Training: 5.88%
- Routine Drilling Operator: 11.76%
- Running Casing/Tubing: 11.76%
- Equipment Repairs or Maintenance: 23.53%
- BOP Stack Install/Maintenance: 5.88%
European Water Total Recordable Incidents by Operation (Chart 12)
Based on 71 Incidents

- Rigging Up/Down: 4.23%
- BOP Stack Install/Maintenance: 5.63%
- Material Handling: Crane/Cherry Picker: 4.23%
- Material Handling: Forklift: 1.41%
- Material Handling: Manual: 15.49%
- Routine Drilling Oper.: 11.27%
- Laying Down/Picking up Tubulars: 4.23%
- Running Casing/Tubing: 5.63%
- Tripping in/out: 2.82%
- Routine Drilling Oper.: 11.27%
- Walking: 11.27%
- Training: 1.41%
- Abrasive Blasting/Paint/Scale Removal: 1.41%
- Painting (painting related tasks): 2.82%
- Travel/Transportation: 1.41%
- Cementing: 1.41%
- Equipment Repairs or Maintenance: 21.13%
- Mud Mixing/Pumping: 2.82%
- Rig Move (Towing/Anchor Handling): 1.41%
European Water Total Lost Time Incidents by Location (Chart 13)
Based on 17 Incidents

- Rig Floor: 35.29%
- Cellar / Sub / Moonpool: 17.65%
- Rig Pad/Rig Decks: 11.76%
- Shale Shaker: 5.88%
- Derrick/Mast: 5.88%
- Catwalk/V-door: 5.88%
- Pipe Rack/Pipe Deck: 11.76%
- Cherry Picker/Crane: 5.88%
- 17.65%
European Water Total Recordable Incidents by Location (Chart 14)
Based on 71 Incidents

- Rig Floor: 25.35%
- Anchor Winch Station/Area: 1.41%
- Cherry Picker/ Crane: 1.41%
- Jacking House: 1.41%
- BOP Stack /well head/tree Area: 5.63%
- Pipe Rack/Pipe Deck: 7.04%
- Catwalk/V-door: 5.63%
- Derrick/Mast: 4.23%
- BOP Stack /well head/tree Area: 5.63%
- Mud Mixing Tank/Area: 4.23%
- Engine Generator Room: 4.23%
- Shale Shaker: 1.41%
- Mud Pump Room: 1.41%
- Fuel/Water Storage Tanks: 1.41%
- Cellar / Sub / Moonpool: 8.45%
- Machinery Spaces: 2.82%
- Stairs/Ladders: 2.82%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
- Cellar / Sub / Moonpool: 8.45%
- Living/Camp Areas/Accommodations: 1.41%
- Work Rooms change, storage, room: 5.63%
- Rig Pad/Rig Decks: 11.27%
- Pontoon: 2.82%
European Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 17 Incidents

- 10+ yrs.: 35.29%
- >1 yr. < 5 yrs.: 58.82%
- >5 yrs. < 10 yrs.: 5.88%
European Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 70 Incidents

- >1 yr. < 5 yrs.: 44.29%
- >6 mos. < 1 yr.: 4.29%
- >3 mos. < 6 mos.: 2.86%
- 0 mo. < 3 mos.: 7.14%
- 10+ yrs.: 25.71%
- >5 yrs. < 10 yrs.: 15.71%
- >1 yr. < 5 yrs.: 44.29%
- >6 mos. < 1 yr.: 4.29%
- >3 mos. < 6 mos.: 2.86%
- 0 mo. < 3 mos.: 7.14%
- 10+ yrs.: 25.71%
- >5 yrs. < 10 yrs.: 15.71%
European Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 16 Incidents

- 14:00: 6.25%
- 15:00: 6.25%
- 16:00: 18.75%
- 17:00: 12.50%
- 18:00: 12.50%
- 19:00: 12.50%
- 20:00: 6.25%
- 21:00: 6.25%
- 22:00: 6.25%
- 23:00: 12.50%
- 00:00: 6.25%
- 01:00: 12.50%
- 02:00: 6.25%
- 03:00: 6.25%
- 04:00: 6.25%
- 05:00: 6.25%
- 06:00: 6.25%
- 07:00: 6.25%
- 08:00: 6.25%
- 09:00: 6.25%
- 10:00: 6.25%
- 11:00: 6.25%
- 12:00: 6.25%
- 13:00: 6.25%
European Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 70 Incidents

- 24:00:00 - 1.43%
- 23:00 - 4.29%
- 21:00 - 4.29%
- 20:00 - 5.71%
- 19:00 - 1.43%
- 18:00 - 8.57%
- 17:00 - 11.43%
- 16:00 - 8.57%
- 15:00 - 2.86%
- 14:00 - 5.71%
- 13:00 - 2.86%
- 12:00 - 5.71%
- 11:00 - 5.71%
- 10:00 - 4.29%
- 9:00 - 4.29%
- 8:00 - 5.71%
- 7:00 - 2.86%
- 6:00 - 2.86%
- 5:00 - 1.43%
- 4:00 - 1.43%
- 3:00 - 1.43%
- 2:00 - 1.43%
- 1:00 - 5.71%
European Water Total Lost Time Incidents by Age (Chart 19)
Based on 11 Incidents

- 26-35 years: 18.18%
- 36-45 years: 9.09%
- 46-55 years: 9.09%
- 56-65 years: 9.09%
- 66 & Above: 9.09%
- 18-25 years: 45.45%
European Water Total Recordable Incidents by Age (Chart 20)
Based on 48 Incidents

- 26 - 35: 33.33%
- 36 - 45: 31.25%
- 46 - 55: 14.58%
- 56 - 65: 8.33%
- 66 & Above: 2.08%
- 18 - 25: 10.42%