Summary of Occupational Incidents
(European Water Totals)

Issued 15 June 2018
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# IADC 2017 European Water Totals

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>25,681,274</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>28</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>15</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>18</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>1</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>62</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.22
- **RWC Incidence Rate**: 0.12
- **LTI Incidence Rate**: 0.15
- **LTI Frequency Rate**: 0.74
- **DART Incidence Rate**: 0.26
- **DART Frequency Rate**: 1.32
- **Recordable Incidence Rate**: 0.48
- **Recordable Frequency Rate**: 2.41

**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

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## European Water Total Incidence Rates vs Man-hours

![Graph showing European Water Total Incidence Rates vs Man-hours](image)

- **LTI Rate**
- **Rec. Rate**
- **DART Rate**
- **Man-hours**
IADC 2017 European Water Charts
European Water Total Lost Time Incidents by Month (Chart 1)
Based on 18 Incidents

- November: 5.56%
- September: 5.56%
- August: 16.67%
- July: 11.11%
- June: 16.67%
- May: 11.11%
- April: 5.56%
- March: 5.56%
- January: 11.11%
- December: 11.11%
European Water Total Recordable Incidents by Month (Chart 2)
Based on 62 Incidents

- August 19.35%
- September 4.84%
- October 3.23%
- November 11.29%
- December 4.84%
- January 12.90%
- February 3.23%
- March 12.90%
- April 6.45%
- May 9.68%
- June 6.45%
- July 4.84%

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European Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 18 Incidents

- Roustabout (Lease Hand): 38.89%
- Floorman: 22.22%
- Driller (Asst. Dr.): 5.56%
- Mechanic (Repair Technician): 5.56%
- Electrician (Electronic Technician): 16.67%
- Rig Helper: 11.11%
European Water Total Recordable Incidents by Occupation (Chart 4)
Based on 62 Incidents

- Toolpusher (Asst.TP, Tourpusher): 1.61%
- Marine Crew: 1.61%
- Subsea Engineer: 3.23%
- Deck Supervisor (Deck Coordinator): 1.61%
- Catering / Camp Personnel: 1.61%
- Welder: 6.45%
- Rig Helper: 8.06%
- Crane / Forklift Operator: 1.61%
- Mechanic: 4.84%
- Motorman: 1.61%
- Electrician: 4.84%
- Toolpusher (Asst.TP, Tourpusher): 1.61%
- Driller (Asst. Dr.): 8.06%
- Derrickman: 4.84%
- Floorman: 16.13%
- Roustabout (Lease Hand): 33.87%

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European Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 18 Incidents

- Hand(s) / Wrist(s) 16.67%
- Finger(s) 22.22%
- Shoulder(s) 5.56%
- Back 5.56%
- Trunk/Torso (chest, abdomen, groin) 11.11%
- Foot/Ankle(s) 11.11%
- Arm(s) 5.56%
- Eye(s) (eyelid) 5.56%
- Knee(s) 5.56%
- Head 11.11%
European Water Total Recordable Incidents by Body Part (Chart 6)
Based on 61 Incidents

- Head: 14.75%
- Eye(s) (eyelid): 8.20%
- Feet/Ankles: 9.84%
- Trunk/Torso (chest, abdomen, groin): 8.20%
- Finger(s): 31.15%
- Hand(s)/Wrist(s): 8.20%
- Shoulder(s): 4.92%
- Knee(s): 1.64%
- Neck: 3.28%
- Arm(s): 3.28%
- Back: 1.64%
- Leg(s): 3.28%
- Toes: 1.64%
- Feet/Ankles: 9.84%
- Hand(s)/Wrist(s): 8.20%
European Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 18 Incidents

- Struck By: 33.33%
- Caught Between/In: 27.78%
- Slip/Fall: Same Level: 22.22%
- Slip/Fall: Different Level: 11.11%
- Contact With Chemicals/Fluids: 5.56%
European Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 62 Incidents

- Struck By: 33.87%
- Struck Against: 11.29%
- Caught Between/In: 25.81%
- Slip/Fall: Same Level: 9.68%
- Slip/Fall: Different Level: 6.45%
- Strain/Overexertion: 3.23%
- Contact With Chemicals/Fluids: 8.06%
- Cut: 1.61%
- Contact With Chemicals/Fluids: 8.06%
European Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 17 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 5.88%
- Material: 23.53%
- Hand Tools: Manual: 5.88%
- Slings (rope, cable, chain, web): 11.76%
- Iron Roughneck, Pipe Spinner, etc.: 5.88%
- Pipes/Collars/Tubulars/Csg.: 5.88%
- Decks (grating, walkway): 29.41%
- Trans.-Car, truck, bus: 5.88%
- Ladders: 5.88%
- Material: 23.53%
European Water Total Recordable Incidents by Equipment (Chart 10)
Based on 57 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 5.26%
- Ladders: 5.26%
- Decks (grating, walkway): 12.28%
- Pressure Hoses/Lines: 1.75%
- Forklift: 1.75%
- Crane: 3.51%
- Hand Tools: Manual: 8.77%
- Slings (rope, cable, chain, web): 7.02%
- BOP Stack (well head, tree): 3.51%
- Stairs: 1.75%
- Car, truck, bus: 1.75%
- Hand Tools: Power: 1.75%
- Engines/Pumps/Machinery: 3.51%
- Material: 19.30%
- Chemicals (sack, drum, pail, bulk hopper): 3.51%
- Iron Roughneck, Pipe Spinner, etc.: 3.51%
- Pipes/Collars/Tubulars/Csg.: 12.28%
- Chemicals (sack, drum, pail, bulk hopper): 3.51%
- Car, truck, bus: 1.75%
- Stairs: 1.75%
- Pressure Hoses/Lines: 1.75%
- Forklift: 1.75%
- Crane: 3.51%
- Hand Tools: Manual: 8.77%
- Slings (rope, cable, chain, web): 7.02%
- BOP Stack (well head, tree): 3.51%
- Stairs: 1.75%
- Car, truck, bus: 1.75%
- Hand Tools: Power: 1.75%
- Engines/Pumps/Machinery: 3.51%
- Material: 19.30%
- Chemicals (sack, drum, pail, bulk hopper): 3.51%
- Iron Roughneck, Pipe Spinner, etc.: 3.51%
- Pipes/Collars/Tubulars/Csg.: 12.28%
European Water Total Lost Time Incidents by Operation (Chart 11)
Based on 18 Incidents

- Travel/Transportation: 5.56%
- Routine Drilling Oper.: 22.22%
- Laying Down/Picking up Tubulars: 5.56%
- Material Handling: Manual: 22.22%
- BOP Stack Install/Maintenance: 5.56%
- Equipment Repairs or Maintenance: 11.11%
- Walking: 22.22%
- Material Handling: Crane/Cherry Picker: 5.56%
European Water Total Recordable Incidents by Operation (Chart 12)
Based on 59 Incidents

- Walking: 11.86%
- Training: 1.69%
- Cementing: 1.69%
- Painting (painting related tasks): 1.69%
- Mud Mixing/Pumping: 3.39%
- Equipment Repairs or Maintenance: 15.25%
- BOP Stack Install/Maintenance: 3.39%
- Rigging Up/Down: 5.08%
- Routine Drilling Oper.: 15.25%
- Running Casing/Tubing: 3.39%
- Laying Down/Picking up Tubulars: 3.39%
- Material Handling: Manual: 23.73%
- Material Handling: Forklift, Crane/Cherry Picker: 5.08%
- Material Handling: Rig Floor Winch: 1.69%
- Travel/Transportation: 1.69%

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European Water Total Lost Time Incidents by Location (Chart 13)
Based on 18 Incidents

- Rig Pad/Rig Decks: 16.67%
- Shale Shaker: 5.56%
- Catwalk/V-door: 5.56%
- Work Rooms change, storage, room: 5.56%
- Cellar/Sub/Moonpool: 5.56%
- Machinery Spaces: 5.56%
- Pipe Rack/Pipe Deck: 27.78%
- Rig Floor: 22.22%
- Stairs/Ladders: 5.56%
- Cellar/Sub/Moonpool: 5.56%
- Machinery Spaces: 5.56%

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European Water Total Recordable Incidents by Location (Chart 14)
Based on 62 Incidents

- Rig Floor: 17.74%
- Rig Pad/Rig Decks: 16.13%
- Pipe Rack/ Pipe Deck: 19.35%
- SCR/Electrical Room: 1.61%
- Shale Shaker: 4.84%
- Cellar/Sub/Moonpool: 4.84%
- Cherry Picker/Crane: 3.23%
- Stairs/Ladders: 4.84%
- Work Rooms change, storage, room: 8.06%
- BOP Stack/well head/tree Area: 3.23%
- Living/Camp Areas/Accommodations: 4.84%
- BOP Stack/well head/tree Area: 3.23%
- Machinery Spaces: 1.61%
- Stairs/Ladders: 4.84%
- Cellar/Sub/Moonpool: 4.84%
- Cherry Picker/Crane: 3.23%
- Mud Pump Room: 3.23%
- Mud Mixing Tank/Area: 1.61%
- Derrick/Mast: 1.61%
- Catwalk/V-door: 3.23%
European Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 18 Incidents

- 10+ yrs: 44.44%
- >5 yrs. < 10 yrs: 5.56%
- >1 yr. < 5 yrs: 38.89%
- >6 mos. < 1 yr: 5.56%
- 0 mo. < 3 mos: 5.56%
- 0 mo. < 3 mos: 5.56%
European Water Total Recordable Incidents by Time in Service (Chart 16)

Based on 62 Incidents

- 10+ yrs.: 29.03%
- >5 yrs. < 10 yrs.: 19.35%
- >1 yr. < 5 yrs.: 45.16%
- >6 mos. < 1 yr.: 1.61%
- 0 mo. < 3 mos.: 4.84%
- 0 mo. < 3 mos.: 4.84%
European Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 18 Incidents
European Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 62 Incidents

- 11:00: 6.45%
- 10:00: 8.06%
- 9:00: 11.29%
- 8:00: 6.45%
- 7:00: 3.23%
- 6:00: 6.45%
- 5:00: 1.61%
- 4:00: 1.61%
- 3:00: 4.84%
- 2:00: 6.45%
- 1:00: 3.23%
- 0:00: 9.68%
- 17:00: 1.61%
- 16:00: 4.84%
- 15:00: 6.45%
- 14:00: 4.84%
- 13:00: 3.23%
- 12:00: 1.61%
- 24:00: 1.61%
- 23:00: 1.61%
- 22:00: 4.84%
- 21:00: 4.84%
- 20:00: 3.23%
- 19:00: 1.61%
- 18:00: 3.23%

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European Water Total Lost Time Incidents by Age (Chart 19)
Based on 14 Incidents

- 36 - 45: 42.86%
- 26 - 35: 21.43%
- 46 - 55: 21.43%
- 18 - 25: 7.14%
- 56 - 65: 7.14%
European Water Total Recordable Incidents by Age (Chart 20)
Based on 43 Incidents

- 26 - 35: 30.23%
- 36 - 45: 44.19%
- 46 - 55: 18.60%
- 56 - 65: 2.33%
- 18 - 25: 4.65%