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### IADC 2013 Middle East Water Totals (Table 1)

<table>
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<tr>
<th>Category</th>
<th>Total</th>
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<tr>
<td>Total Man-hours</td>
<td>35,468,581</td>
</tr>
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<td>Total Medical Treatment Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>25</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>1</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>52</td>
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#### Incidence Rates

- **MTO Incidence Rate**: 0.07
- **RWC Incidence Rate**: 0.14
- **LTI Incidence Rate**: 0.08
- **LTI Frequency Rate**: 0.39
- **DART Incidence Rate**: 0.22
- **DART Frequency Rate**: 1.10
- **Recordable Incidence Rate**: 0.29
- **Recordable Frequency Rate**: 1.47

**Companies Reporting**: Water – 17

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + RWC 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

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

![Graph showing incidence rates vs man-hours from 2001 to 2013](image-url)
IADC 2013 Middle East Water Charts
Middle East Water Total Lost Time Incidents by Month (Chart 1)
Based on 13 Incidents

- October: 15.38%
- November: 7.69%
- August: 15.38%
- July: 7.69%
- June: 15.38%
- April: 7.69%
- March: 15.38%
- January: 7.69%
- December: 7.69%
Middle East Water Total Recordable Incidents by Month (Chart 2)
Based on 52 Incidents

- December: 17.31%
- January: 13.46%
- February: 5.77%
- March: 3.85%
- April: 5.77%
- May: 7.69%
- June: 11.54%
- July: 11.54%
- August: 3.85%
- September: 11.54%
- October: 9.62%
- November: 7.69%
- December: 1.92%
Middle East Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 13 Incidents

- Floorman: 38.46%
- Driller (Asst. Dr.): 15.38%
- Crane Operator (Forklift Operator): 15.38%
- Roustabout (Lease Hand): 7.69%
- Marine Crew: 7.69%
- Subsea Engineer: 7.69%
- Other: 7.69%
Middle East Water Total Recordable Incidents by Occupation (Chart 4)
Based on 52 Incidents

- Roustabout (Lease Hand): 23.08%
- Floorman: 26.92%
- Derrickman: 1.92%
- Toolpusher (Asst.TP, Tourpusher): 1.92%
- Driller (Asst. Dr.): 9.62%
- Catering Personnel (Camp Staff): 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
- Subsea Engineer: 1.92%
- Marine Crew: 1.92%
- Catering Personnel (Camp Staff): 1.92%
- Welder: 1.92%
- Barge Engineer/Ballast Control Op.: 1.92%
- Crane Operator (Forklift Operator): 3.85%
- Mechanic (Repair Technician): 3.85%
- Motorman: 3.85%
Middle East Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 13 Incidents

- Feet/Ankles: 15.38%
- Knee(s): 7.69%
- Head: 15.38%
- Back: 7.69%
- Arm(s): 7.69%
- Hand(s) / Wrist(s): 15.38%
- Finger(s) (thumb(s)): 23.08%
- Leg(s): 7.69%
Middle East Water Total Recordable Incidents by Body Part (Chart 6)
Based on 52 incidents

- Finger(s) (thumb(s)) 36.54%
- Hand(s) / Wrist(s) 7.69%
- Arm(s) 5.77%
- Leg(s) 7.69%
- Back 3.85%
- Trunk/Torso 3.85%
- Shoulder(s) 3.85%
- Eyes 3.85%
- Other 1.92%
- Knee(s) 1.92%
- Feet/Ankles 9.82%
- Head 13.46%
- Feet/Ankles 9.82%
- Other 1.92%
- Knee(s) 1.92%
- Eyes 3.85%
- Shoulder(s) 3.85%
- Finger(s) (thumb(s)) 36.54%
Middle East Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 13 Incidents

- Caught Between/In: 23.08%
- Struck By: 30.77%
- Cut: 15.38%
- Strain/Overexertion: 7.69%
- Slip/Fall: Same Level: 15.38%
- Other: 7.69%
Middle East Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 52 Incidents

- Caught Between/In: 40.38%
- Struck By: 17.31%
- Struck Against: 3.85%
- Slip/Fall: Same Level: 9.62%
- Slip/Fall: Different Level: 3.85%
- Cut: 5.77%
- Sprain: 1.92%
- Debris: 1.92%
- Contact With Chemicals/Fluids: 1.92%
- Strain/Overexertion: 7.69%
- Heat Exhaustion/Heat Stroke: 1.92%
- Other: 3.85%
Middle East Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 13 Incidents

- Slings (rope, cable, chain, web) - 15.38%
- Pipes/Collars/Tubulars/Csg. - 23.08%
- Well Control BOP Stack (well head, tree) - 7.69%
- Crane - 7.69%
- Ladders - 7.69%
- Welding, Cutting, Grinding Equipment - 7.69%
- Elevators - 7.69%
- Rotary - 7.69%
- Other - 15.38%
Middle East Water Total Recordable Incidents by Equipment (Chart 10)
Based on 52 Incidents

- Other: 23.08%
- Rig Floor Winch/Deck Winch: 1.92%
- Boat Cargo: 1.92%
- Chemicals: 1.92%
- Welding, Cutting, Grinding Equipment: 3.85%
- Decks (grating, walkway): 1.92%
- Ladders: 1.92%
- Forklift: 3.85%
- Crane: 5.77%
- Material: 3.85%
- BOP Stack (well head, tree): 5.77%
- Hand Tools: Manual: 7.69%
- Hand Tools: Power: 1.92%
- Slings (rope, cable, chain, web): 9.62%
- Crane: 5.77%
- Elevators: 1.92%
- Rotary: 1.92%
- Pipes/Collars/Tubulars/Csg.: 15.38%
Middle East Water Total Lost Time Incidents by Operation (Chart 11)
Based on 13 Incidents

- Tripping in/out: 30.77%
- Laying Down/Picking up Pipe/Tub: 7.69%
- Rigging Up/Down Rig Move: 15.38%
- Material Handling: Manual: 7.69%
- Material Handling: Crane/Cherry Picker: 7.69%
- BOP Stack Install/Maintenance: 7.69%
- Equipment Repairs or Maintenance: 7.69%
- Laying Down/Picking up Pipe/Tub: 7.69%
- Tripping in/out: 30.77%
- Other: 15.38%

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Middle East Water Total Recordable Incidents by Operation (Chart 12)
Based on 52 Incidents

- Other: 17.31%
- Jacking Up/Down Operations: 1.92%
- Well Testing: 1.92%
- Walking: 1.92%
- Special Operations: 1.92%
- Mud Mixing/Pumping: 3.85%
- Equipment Repairs or Maintenance: 5.77%
- BOP Stack Install/Maintenance: 7.69%
- Rigging Up/Down Rig Move: 5.77%
- Tripping in/out: 11.54%
- Making Connection: 1.92%
- Routine Drilling Operations: 1.92%
- Running Casing/Tubing: 3.85%
- Laying Down/Picking up Pipe/Tub: 5.77%
- Material Handling: Manual: 15.38%
- Material Handling: Crane/Cherry Picker: 7.69%
- Material Handling: Forklift: 1.92%
- Material Handling: Rig Floor Winch: 1.92%
- Well Testing: 1.92%
Middle East Water Total Lost Time Incidents by Location (Chart 13)
Based on 13 Incidents

- Rig Floor 23.08%
- Derrick/Mast 15.38%
- BOP Stack (well head/tree) Area 7.69%
- Crew/Work Boats 7.69%
- Cellar/Substructure/Moonpool 7.69%
- Cherry Picker/Crane 7.69%
- Pipe Rack/Pipe Deck 7.69%
- Rig Pad/Rig Decks (rig/well site/location, yard) 15.38%
- Other 7.69%
Middle East Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 13 Incidents

- >5 yrs. < 10 yrs. 30.77%
- >1 yr. < 5 yrs. 46.15%
- >6 mos. < 1 yr. 15.38%
- 0 mo. < 3 mos. 7.69%
Middle East Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 52 Incidents

- 10+ yrs.: 15.38%
- >5 yrs. < 10 yrs.: 13.46%
- >3 mos. < 6 mos.: 7.69%
- >6 mos. < 1 yr.: 17.31%
- >1 yr. < 5 yrs.: 36.54%
- 0 mo. < 3 mos.: 9.62%
Middle East Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 13 Incidents

- 16:00: 7.69%
- 17:00: 7.69%
- 4:00: 15.38%
- 7:00: 7.69%
- 8:00: 7.69%
- 11:00: 7.69%
- 14:00: 15.38%
- 15:00: 23.08%
- 9:00: 7.69%
Middle East Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 52 Incidents