IADC

IADC
ISP PROGRAM

2018

Summary of Occupational Incidents
(US Water Totals)

Issued 15 June 2019
Table of Contents
(Table of Contents is Hyperlinked, Just click on Topic & go)

IADC 2018 US WATER TOTALS (Table 1) ................................................................. 1
  US Water Total LTI & Recordable Incidence Rates vs Man-hours (Figure 1) .......... 1
IADC 2018 US WATER CHARTS .............................................................................. 2
  US Water Total Lost Time Incidents by Month (Chart 1) ................................... 2
  US Water Total Recordable Incidents by Month (Chart 2) .............................. 3
  US Water Total Lost Time Incidents by Occupation (Chart 3) ......................... 4
  US Water Total Recordable Incidents by Occupation (Chart 4) ....................... 5
  US Water Total Lost Time Incidents by Body Part (Chart 5) ......................... 6
  US Water Total Recordable Incidents by Body Part (Chart 6) ......................... 7
  US Water Total Lost Time Incidents by Incident Type (Chart 7) ................. 8
  US Water Total Recordable Incidents by Incident Type (Chart 8) ............... 9
  US Water Total Lost Time Incidents by Equipment (Chart 9) .................... 10
  US Water Total Recordable Incidents by Equipment (Chart 10) .................. 11
  US Water Total Lost Time Incidents by Operation (Chart 11) .................... 12
  US Water Total Recordable Incidents by Operation (Chart 12) .................. 13
  US Water Total Lost Time Incidents by Location (Chart 13) ..................... 14
  US Water Total Recordable Incidents by Location (Chart 14) ................... 15
  US Water Total Lost Time Incidents by Time in Service (Chart 15) .......... 16
  US Water Total Recordable Incidents by Time in Service (Chart 16) ........ 17
  US Water Total Lost Time Incidents by Time of Day (Chart 17) ............. 18
  US Water Total Recordable Incidents by Time of Day (Chart 18) ............ 19
  US Water Total Lost Time Incidents by Age (Chart 19) ............................ 20
  US Water Total Recordable Incidents by Age (Chart 20) .......................... 21
## IADC 2018 US Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>27,298,979</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>23</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>25</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>10</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>58</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence Rate</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.17</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.18</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.07</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.37</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.26</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.28</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.42</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>2.12</td>
</tr>
</tbody>
</table>

Companies Reporting: Water – 15

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

---

### US Water Total LTI & Recordable Incidence Rates vs Man-hours (Figure 1)

![Graph showing US Water Total LTI & Recordable Incidence Rates vs Man-hours](graph.png)
IADC 2018 US Water Charts
US Water Total Lost Time Incidents by Month (Chart 1)
Based on 10 Incidents

- September: 30.00%
- August: 20.00%
- February: 20.00%
- December: 20.00%
- November: 10.00%
US Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 10 Incidents

- Floorman: 30.00%
- Roustabout (Lease Hand): 30.00%
- Subsea Engineer: 10.00%
- Crane / Forklift Operator: 10.00%
- Welder: 10.00%
- Maintenance Super: 10.00%

Floorman: 30.00%
Roustabout (Lease Hand): 30.00%
Subsea Engineer: 10.00%
Crane / Forklift Operator: 10.00%
Welder: 10.00%
Maintenance Super: 10.00%
US Water Total Recordable Incidents by Occupation (Chart 4)
Based on 58 Incidents

- Barge Engineer/Ballast Control Op. 1.72%
- Crane / Forklift Operator 1.72%
- Mechanic 5.17%
- Electrician 5.17%
- Driller (Asst. Dr.) 1.72%
- Derrickman 5.17%
- Rig Helper 3.45%
- Welder 1.72%
- Maintenance Super 3.45%
- Subsea Engineer 3.45%
- Roustabout ( Lease Hand) 34.48%
- Floorman 31.03%
- Rig Helper 3.45%
- Toolpusher (Asst.TP, Tourpusher) 1.72%
- Subsea Engineer 3.45%
- Barge Engineer/Ballast Control Op. 1.72%
- Crane / Forklift Operator 1.72%
- Mechanic 5.17%
- Electrician 5.17%
- Driller (Asst. Dr.) 1.72%
- Derrickman 5.17%
- Rig Helper 3.45%
- Welder 1.72%
- Maintenance Super 3.45%
- Subsea Engineer 3.45%
- Roustabout ( Lease Hand) 34.48%
- Floorman 31.03%
- Rig Helper 3.45%
- Toolpusher (Asst.TP, Tourpusher) 1.72%
- Subsea Engineer 3.45%
- Barge Engineer/Ballast Control Op. 1.72%
- Crane / Forklift Operator 1.72%
- Mechanic 5.17%
- Electrician 5.17%
- Driller (Asst. Dr.) 1.72%
- Derrickman 5.17%
- Rig Helper 3.45%
- Welder 1.72%
- Maintenance Super 3.45%
- Subsea Engineer 3.45%
- Roustabout ( Lease Hand) 34.48%
- Floorman 31.03%
US Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 9 Incidents

- Back: 33.33%
- Head: 11.11%
- Feet/Ankles: 11.11%
- Legs: 11.11%
- Finger(s): 11.11%
- Arm(s): 11.11%
- Knee(s): 11.11%

Issued: 15 June 2019
Copyright © International Association of Drilling Contractors
US Water Total Recordable Incidents by Body Part (Chart 6)
Based on 57 Incidents

- Finger(s) 29.82%
- Arm(s) 3.51%
- Hand(s) / Wrist(s) 7.02%
- Leg(s) 8.77%
- Foot/Ankles 7.02%
- Shoulder(s) 3.51%
- Neck 1.75%
- Eyes (eyelid) 1.75%
- Trunk/Torso (chest, abdomen, groin) 1.75%
- Head 12.28%
- Back 10.53%
- Knee(s) 12.28%
US Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 10 Incidents

- Struck By: 20.00%
- Struck Against: 10.00%
- Caught Between/In: 20.00%
- Slip/Fall: Same Level: 10.00%
- Slip/Fall: Different Level: 30.00%
- Vehicle: 10.00%
US Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 57 Incidents

- Caught Between/In: 35.09%
- Struck Against: 12.28%
- Struck By: 21.05%
- Slip/Fall: Same Level: 7.02%
- Slip/Fall: Different Level: 7.02%
- Contact With Chemicals/Fluids: 1.75%
- Sprain: 3.51%
- Strain/Overexertion: 12.28%
- Cut: 1.75%
- Vehicle: 1.75%
- Sprain: 3.51%
- Sprain: 3.51%
- Sprain: 3.51%
US Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 8 Incidents

- Decks (grating, walkway): 37.50%
- Pressure Hoses/Lines: 12.50%
- Stairs: 12.50%
- Trans.-Car, truck, bus: 12.50%
- Pipes/Collars/Tubulars/Csg.: 12.50%
- Material: 12.50%
- Material: 12.50%
US Water Total Recordable Incidents by Equipment (Chart 10)
Based on 49 Incidents

- Boat Cargo (skids, tubulars, containers, etc.) 2.04%
- Anchor Chains/Cables/Winches 2.04%
- Chemicals (sack, drum, pail, bulk hopper) 6.12%
- Crane 4.08%
- Decks (grating, walkway) 16.33%
- Pressure Hoses/Lines 12.24%
- Material 6.12%
- BOP Stack (well head, tree) 4.08%
- Tongs 2.04%
- Elevators 2.04%
- Cathead/Drawworks 2.04%
- Slings (rope, cable, chain, web) 4.08%
- Hand Tools: Manual 14.29%
- Hand Tools: Power 2.04%
- Engines/Pumps/Machinery 8.16%
- Cathead/Drawworks 2.04%
- Car, truck, bus 2.04%
- Stairs 2.04%
- Pipes/Collars/Tubulars/Csg. 6.12%
US Water Total Lost Time Incidents by Operation (Chart 11)
Based on 10 Incidents

- Equipment Repairs or Maintenance: 10.00%
- BOP Stack Install/Maintenance: 10.00%
- Routine Drilling Oper.: 50.00%
- Material Handling: Manual: 10.00%
- Material Handling: Crane/Cherry Picker: 10.00%
- Travel/Transportation: 10.00%
US Water Total Recordable Incidents by Operation (Chart 12)
Based on 56 Incidents

- Equipment Repairs or Maintenance: 21.43%
- Laying Down/Picking up Tubulars: 1.79%
- Rigging Up/Down: 7.14%
- Making Connection: 1.79%
- Travel/Transportation: 1.79%
- Mud Mixing/Pumping: 5.36%
- Routine Drilling Oper.: 30.36%
- Running Casing/Tubing: 3.57%
- Material Handling: Crane/Cherry Picker: 7.14%
- Material Handling: Manual: 7.14%
- BOP Stack Install/Maintenance: 1.79%
- Material Handling: Crane/Cherry Picker: 7.14%
- Laying Down/Picking up Tubulars: 1.79%
- Equipment Repairs or Maintenance: 21.43%
- Routine Drilling Oper.: 30.36%
- Running Casing/Tubing: 3.57%
- Material Handling: Manual: 7.14%
- Rigging Up/Down: 7.14%
US Water Total Lost Time Incidents by Location (Chart 13)
Based on 9 Incidents

- Truck, Car, Bus: 11.11%
- Living/Camp Areas/Accommodations: 11.11%
- BOP Stack/well head/tree Area: 11.11%
- Derrick/Mast: 11.11%
- Pipe Rack/Pipe Deck: 22.22%
- Rig Floor: 33.33%

Issued: 15 June 2019

Copyright © International Association of Drilling Contractors
US Water Total Recordable Incidents by Location (Chart 14)
Based on 52 Incidents

- Rig Floor: 26.92%
- Pipe Rack/Pipe Deck: 17.31%
- Crew/Work Boats: 1.92%
- Living/Camp Areas/Accommodations: 3.85%
- Mud Mixing Tank/Area: 3.85%
- Mud Pits/Tanks: 9.62%
- Mud Pump Room: 1.92%
- BOP Stack /well head/tree Area: 1.92%
- Derrick/Mast: 3.85%
- Rig Pad/Rig Decks: 11.54%
- Stairs/Ladders: 1.92%
- Work Rooms change, storage, room: 3.85%
- Rig Floor
- Cherry Picker/Crane: 5.77%
- Machinery Spaces: 1.92%
- Cellar / Sub / Moonpool: 1.92%
- Truck, Car, Bus: 1.92%
- Crew/Work Boats: 1.92%
- Living/Camp Areas/Accommodations: 3.85%
- Mud Mixing Tank/Area: 3.85%
- Mud Pits/Tanks: 9.62%
- Mud Pump Room: 1.92%
- BOP Stack /well head/tree Area: 1.92%
- Derrick/Mast: 3.85%
- Rig Pad/Rig Decks: 11.54%
- Stairs/Ladders: 1.92%
- Work Rooms change, storage, room: 3.85%
- Rig Floor
- Cherry Picker/Crane: 5.77%
- Machinery Spaces: 1.92%
- Cellar / Sub / Moonpool: 1.92%
- Truck, Car, Bus: 1.92%
- Crew/Work Boats: 1.92%
- Living/Camp Areas/Accommodations: 3.85%
- Mud Mixing Tank/Area: 3.85%
- Mud Pits/Tanks: 9.62%
- Mud Pump Room: 1.92%
- BOP Stack /well head/tree Area: 1.92%
- Derrick/Mast: 3.85%
- Rig Pad/Rig Decks: 11.54%
- Stairs/Ladders: 1.92%
- Work Rooms change, storage, room: 3.85%
US Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 9 Incidents

- 0 mo. < 3 mos.: 22.22%
- >6 mos. < 1 yr.: 11.11%
- >1 yr. < 5 yrs.: 44.44%
- >5 yrs. < 10 yrs.: 11.11%
- 10+ yrs.: 11.11%
US Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 55 Incidents

- >6 mos. < 1 yr. 20.00%
- >3 mos. < 6 mos. 5.45%
- >1 yr. < 5 yrs. 38.18%
- >5 yrs. < 10 yrs. 14.55%
- 0 mo. < 3 mos. 10.91%
- 10+ yrs. 10.91%
US Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 9 Incidents

- 3:00 11.11%
- 20:00 22.22%
- 14:00 22.22%
- 12:00 22.22%
- 4:00 11.11%
- 9:00 11.11%
- 12:00 22.22%
US Water Total Recordable Incidents by Time of Day (Chart 18)

Based on 55 Incidents
US Water Total Lost Time Incidents by Age (Chart 19)
Based on 7 Incidents

- 18 - 25: 28.57%
- 26 - 35: 42.86%
- 46 - 55: 14.29%
- 56 - 65: 14.29%
US Water Total Recordable Incidents by Age (Chart 20)
Based on 44 Incidents

- 18 - 25: 11.36%
- 26 - 35: 47.73%
- 36 - 45: 20.45%
- 46 - 55: 11.36%
- 56 - 65: 9.09%

Issued: 15 June 2019
Copyright © International Association of Drilling Contractors