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IADC 2015 US Water Totals (Table 1)

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<tr>
<th>Total</th>
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<tr>
<td>Total Man-hours</td>
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<tr>
<td>Total Medical Treatment Incidents</td>
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<table>
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<tr>
<td>MTO Incidence Rate</td>
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<td>RWC Incidence Rate</td>
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<tr>
<td>LTI Incidence Rate</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
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<tr>
<td>DART Incidence Rate</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
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<tr>
<td>Recordable Incidence Rate</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
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</tbody>
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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)
IADC 2015 US Water Charts
US Water Total Lost Time Incidents by Month (Chart 1)
Based on 22 Incidents

November 9.09%
October 13.64%
September 4.55%
August 9.09%
July 18.18%
June 9.09%
May 22.73%
April 4.55%
March 4.55%
January 4.55%
US Water Total Recordable Incidents by Month (Chart 2)
Based on 108 Incidents

- January: 12.04%
- February: 4.63%
- March: 8.33%
- April: 8.33%
- May: 7.41%
- June: 10.19%
- July: 11.11%
- August: 9.26%
- September: 5.56%
- October: 8.33%
- November: 8.33%
- December: 6.48%
US Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 22 Incidents

- Floorman: 36.36%
- Driller (Asst. Dr.): 9.09%
- Mechanic: 9.09%
- Welder: 9.09%
- Motorman: 4.55%
- Deck Supervisor (Deck Coordinator): 4.55%
- Subsea Engineer: 4.55%
- Roustabout (Lease Hand): 18.18%
- Derrickman: 4.55%
US Water Total Recordable Incidents by Occupation (Chart 4)
Based on 107 Incidents

- Roustabout (Lease Hand): 29.91%
- Floorman: 29.91%
- Driller (Asst. Dr.): 5.61%
- Derrickman: 5.61%
- Subsea Engineer: 7.48%
- Marine Crew: 1.87%
- Roustabout (Lease Hand): 29.91%
- Barge Engineer/Ballast Control Op.: 1.87%
- Mechanic: 4.67%
- Electrician: 1.87%
- Driller (Asst. Dr.): 5.61%
- Motorman: 0.93%
- Truck Driver / Pusher: 0.93%
- Superintendent/other Supervisors: 4.67%
- Barge Engineer/Ballast Control Op.: 1.87%
- Mechanic: 4.67%
- Electrician: 1.87%
- Driller (Asst. Dr.): 5.61%
- Motorman: 0.93%
- Truck Driver / Pusher: 0.93%
- Superintendent/other Supervisors: 4.67%
- Barge Engineer/Ballast Control Op.: 1.87%
- Mechanic: 4.67%
- Electrician: 1.87%
- Driller (Asst. Dr.): 5.61%
- Motorman: 0.93%
- Truck Driver / Pusher: 0.93%
- Superintendent/other Supervisors: 4.67%
- Barge Engineer/Ballast Control Op.: 1.87%
- Mechanic: 4.67%
- Electrician: 1.87%
- Driller (Asst. Dr.): 5.61%
- Motorman: 0.93%
- Truck Driver / Pusher: 0.93%
- Superintendent/other Supervisors: 4.67%
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- Mechanic: 4.67%
- Electrician: 1.87%
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- Truck Driver / Pusher: 0.93%
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- Barge Engineer/Ballast Control Op.: 1.87%
- Mechanic: 4.67%
- Electrician: 1.87%
- Driller (Asst. Dr.): 5.61%
- Motorman: 0.93%
- Truck Driver / Pusher: 0.93%
- Superintendent/other Supervisors: 4.67%
- Barge Engineer/Ballast Control Op.: 1.87%
US Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 22 Incidents

- Head: 13.64%
- Leg(s): 18.18%
- Finger(s): 18.18%
- Hand(s) / Wrist(s): 9.09%
- Arm(s): 9.09%
- Knee(s): 13.64%
- Feet/Ankles: 18.18%
- Hand(s) / Wrist(s): 9.09%
US Water Total Recordable Incidents by Body Part (Chart 6)
Based on 108 Incidents

- Head: 14.81%
- Chest (Trunk/Torso): 0.93%
- Eyelid: 2.78%
- Shoulder: 1.85%
- Knee: 8.33%
- Eyes: 2.78%
- Hand (Finger, Wrist): 15.74%
- Leg: 4.63%
- Arm: 8.33%
- Foot/Ankle: 13.89%
- Toes: 0.93%
- Back: 2.78%
- Trunk/Torso (chest, abdomen, groin): 0.93%
US Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 21 Incidents

- Struck By: 42.86%
- Caught Between/In: 19.05%
- Slip/Fall: Same Level: 14.29%
- Slip/Fall: Different Level: 4.76%
- Flame/heat/steam (contact/exposed): 4.76%
- Contact With Chemicals/Fluids: 4.76%
- Sprain: 9.52%
- Contact With Chemicals/Fluids: 4.76%

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US Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 106 incidents

- Struck Against: 9.43%
- Caught Between/In: 25.47%
- Slip/Fall: Same Level: 11.32%
- Slip/Fall: Different Level: 5.66%
- Flame/heat/steam (contact/exposed): 1.89%
- Contact With Chemicals/Fluids: 1.89%
- Strain/Overexertion: 3.77%
- Cut: 7.55%
- Sprain: 2.83%
- Caught On: 0.94%
- Struck By: 29.25%
- Struck Against: 9.43%

Caught Between/In: 25.47%
US Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 20 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 5.00%
- Stairs 5.00%
- Kelly Bushings (master bushings) 5.00%
- Engines/Pumps/Machinery 5.00%
- Slings (rope, cable, chain, web) 10.00%
- Slings (drill collar clamp) 15.00%
- Pipes/Collars/Tubulars/Csg. 10.00%
- Slips (drill collar clamp) 15.00%
- Material 15.00%
- Decks (grating, walkway) 10.00%
- Hand Tools: Manual 10.00%
- Hand Tools: Power 5.00%
- Tongs 5.00%
US Water Total Recordable Incidents by Equipment (Chart 10)
Based on 100 Incidents

- Material: 12.00%
- BOP Stack (well head, tree): 4.00%
- Stairs: 2.00%
- Kelly Bushings (master bushings): 1.00%
- Boat: 1.00%
- Engines/Pumps/Machinery: 2.00%
- Hand Tools: Power: 2.00%
- Hand Tools: Manual: 13.00%
- Slings (rope, cable, chain, web): 13.00%
- Pipes/Collars/Tubulars/Csg.: 11.00%
- Iron Roughneck, P: 2.00%
- Elevators: 3.00%
- Spinning Chain: 1.00%
- Tongs: 4.00%
- Slips (drill collar clamp): 3.00%
- Engines/Pumps/Machinery: 2.00%
- Boats: 1.00%
- Stairs: 2.00%
- Kelly Bushings (master bushings): 1.00%
- Welding, Cutting, Grinding Equipment: 1.00%
- Decks (grating, walkway): 8.00%
- Ladders: 2.00%
- Pressure Hoses/Lines: 4.00%
- Material: 12.00%
- BOP Stack (well head, tree): 4.00%
- Stairs: 2.00%
- Kelly Bushings (master bushings): 1.00%
- Boat: 1.00%
- Engines/Pumps/Machinery: 2.00%
- Hand Tools: Power: 2.00%
- Hand Tools: Manual: 13.00%
- Slings (rope, cable, chain, web): 13.00%
- Pipes/Collars/Tubulars/Csg.: 11.00%
- Iron Roughneck, P: 2.00%
- Elevators: 3.00%
- Spinning Chain: 1.00%
- Tongs: 4.00%
- Slips (drill collar clamp): 3.00%
- Engines/Pumps/Machinery: 2.00%
- Boats: 1.00%
- Stairs: 2.00%
- Kelly Bushings (master bushings): 1.00%
- Welding, Cutting, Grinding Equipment: 1.00%
- Decks (grating, walkway): 8.00%
- Ladders: 2.00%
- Pressure Hoses/Lines: 4.00%
- Material: 12.00%
US Water Total Lost Time Incidents by Operation (Chart 11)
Based on 22 Incidents

- Training: 9.09%
- Walking: 4.55%
- Tripping in/out: 18.18%
- Routine Drilling Oper.: 4.55%
- Laying Down/Picking up Tubulars: 9.09%
- Material Handling: Manual: 9.09%
- Material Handling: Crane/Cherry Picker: 9.09%
- Equipment Repairs or Maintenance: 18.18%
- Special Operations: 13.64%
- BOP Stack Install/Maintenance: 4.55%
- Laying Down/Picking up Tubulars: 9.09%
- Equipment Repairs or Maintenance: 18.18%
- Special Operations: 13.64%
- BOP Stack Install/Maintenance: 4.55%
- Training: 9.09%
- Walking: 4.55%
- Tripping in/out: 18.18%
US Water Total Recordable Incidents by Operation (Chart 12)
Based on 108 Incidents

- Travel/Transportation: 1.85%
- Rigging Up/Down Oper.: 3.70%
- BOP Stack Install/Maintenance: 7.41%
- Equipment Repairs or Maintenance: 18.52%
- Walking: 6.48%
- Training: 2.78%
- Tripping in/out: 7.41%
- Making Connection: 1.85%
- Routine Drilling Oper.: 3.70%
- Running Casing/Tubing: 3.70%
- Laying Down/Picking up Tubulars: 10.19%
- Material Handling: Manual: 16.67%
- Material Handling: Crane/Cherry Picker: 10.19%
- Material Handling: Rig Floor Winch: 0.93%
- Material Handling: Crane/Cherry: 10.19%
- BOP Stack Install/Maintenance: 7.41%
- Rigging Up/Down: 3.70%
- Cementing: 0.93%
- Special Operations: 2.78%
- Routine Drilling Oper.: 3.70%
- Running Casing/Tubing: 3.70%
- Laying Down/Picking up Tubulars: 10.19%
- Material Handling: Manual: 16.67%
- Material Handling: Crane/Cherry Picker: 10.19%
- Material Handling: Rig Floor Winch: 0.93%
- Material Handling: Crane/Cherry: 10.19%
- BOP Stack Install/Maintenance: 7.41%
- Rigging Up/Down: 3.70%
- Cementing: 0.93%
- Special Operations: 2.78%

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US Water Total Lost Time Incidents by Location (Chart 13)
Based on 22 Incidents

- Rig Pad/Rig Decks: 18.18%
- Rig Floor: 45.45%
- Engine Generator Room: 9.09%
- Stairs/Ladders: 4.55%
- Mud Pits/Tanks: 4.55%
- Pipe Rack/ Pipe Deck: 9.09%
- Mud Pump Room: 9.09%
US Water Total Recordable Incidents by Location (Chart 14)
Based on 106 Incidents

- Rig Floor: 29.25%
- Pipe Rack/Pipe Deck: 13.21%
- Engine Generator Room: 3.77%
- Mud Pump Room: 3.77%
- Living/Camp Areas/Accommodations: 0.94%
- Crew/Work Boats: 0.94%
- Work Rooms change, storage, room: 3.77%
- Mud Pits/Tanks: 0.94%
- Stairs/Ladders: 0.94%
- Rig Pad/Rig Decks: 18.87%
- Jacking House: 0.94%
- Shale Shaker: 1.89%
- Engine Generator Room: 3.77%
- Mud Mixing Tank/Area: 0.94%
- BOP Stack /well head/tree Area: 6.60%
- Derrick/Mast: 3.77%
- Pontoon: 0.94%
- Crew/Work Boats: 0.94%
- Cellar / Sub / Moonpool: 6.60%
US Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 22 Incidents

- >1 yr. < 5 yrs. 45.45%
- >6 mos. < 1 yr. 18.18%
- >3 mos. < 6 mos. 4.55%
- 0 mo. < 3 mos. 4.55%
- >1 yr. < 5 yrs. 13.64%
- >5 yrs. < 10 yrs. 13.64%
- 10+ yrs. 13.64%
- >6 mos. < 1 yr. 18.18%
US Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 107 Incidents

- >1 yr. < 5 yrs. 52.34%
- >5 yrs. < 10 yrs. 7.48%
- >10 yrs. 14.95%
- >3 mos. < 6 mos. 4.67%
- >6 mos. < 1 yr. 18.69%
- >10 yrs. 14.95%
- 0 mo. < 3 mos. 1.87%

Total: 100%
US Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 22 Incidents

2:00 9.09%
3:00 4.55%
23:00 9.09%
21:00 9.09%
20:00 4.55%
19:00 4.55%
18:00 4.55%
17:00 9.09%
16:00 4.55%
13:00 4.55%
9:00 13.64%
8:00 4.55%
7:00 4.55%
6:00 4.55%
5:00 9.09%
3:00 4.55%
US Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 107 Incidents
US Water Total Lost Time Incidents by Age (Chart 19)
Based on 14 Incidents

- 18 - 25: 7.14%
- 26 - 35: 50.00%
- 36 - 45: 14.29%
- 46 - 55: 14.29%
- 56 - 65: 7.14%
- 66 & Above: 7.14%

14.29%
US Water Total Recordable Incidents by Age (Chart 20)
Based on 66 Incidents

- 18 - 25: 16.67%
- 26 - 35: 39.39%
- 36 - 45: 22.73%
- 46 - 55: 10.61%
- 56 - 65: 7.58%
- 66 & Above: 3.03%