

Berkeley Lab Incident Statistics Fiscal Year 2018 (10/1/17 to 5/31/18)



These slides are updated on a monthly basis as soon as data are reasonably final for the preceding month.

Please share this information with your Areas/Divisions.

Refer questions to: mmalexandre@lbl.gov

Cases	OCT-17	NOV-17	DEC-17	JAN-18	FEB-18	MAR-18	APR-18	MAY-18
Bio Sciences								
Biological Systems & Eng						1		
Biosciences								
BioSciences Area Office								
Environ Genomics & Systems Bio					1			
Joint Genome Institute								
Molecular Biophys & Integ Bio								
Computing Sciences								
Computational Research								
Computing								
Computing Sciences								
NERSC								
Scientific Networking						1		
Earth & Environmental Sciences								
Climate & Ecosystems		1						
Earth & Environmental Sciences								
Energy Geosciences								
Energy Sciences								
Advanced Light Source	1							
Chemical Sciences								
Energy Sciences								
Materials Sciences								
Molecular Foundry								
Energy Technologies								
Bldg Technology Urban Systems	1							
Cyclotron Road								
Energy Analysis Env Impacts								
Energy Storage & Distributed R								
ETA Area Office				1				
Lab Directorate								
Laboratory Directorate								
Operations								
Environ, Health, & Safety								
Facilities				1	3	4	2	2
Human Resources								
Information Technology							1	
Office of Chief Financial Off								
Operations								
Protective Services								
Public Affairs								
Physical Sciences								
Accelerator Tech-Applied Phys								
Engineering								
Nuclear Science								
Physical Sciences								
Physics								
Totals	2	1		2	4	6	3	2

Total Recordable Cases (TRC) Oct 1, 2017- May 31,2018

FY18 YTD=20 Recordable Cases

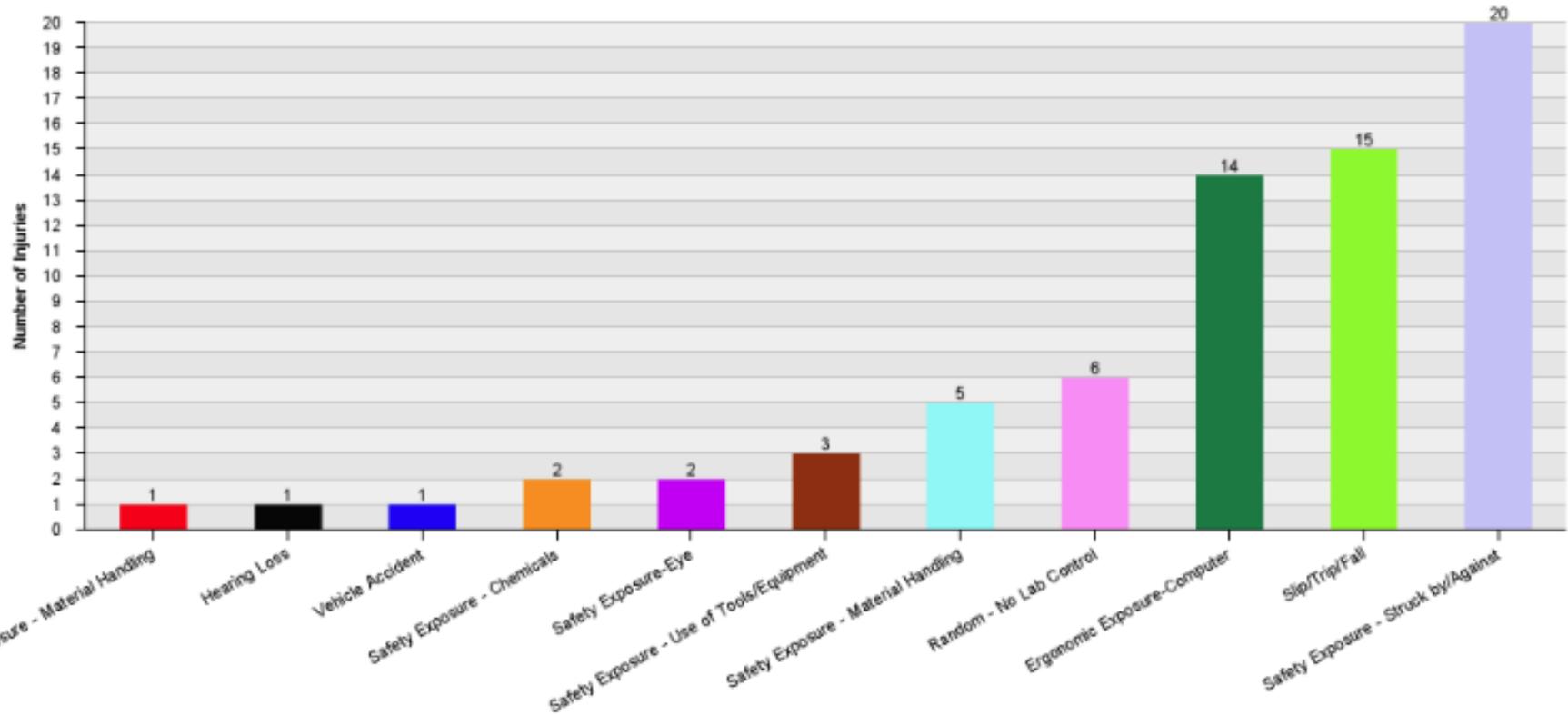
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Environ, Health, & Safety								
Facilities					3	3	1	1
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Office of Chief Financial Off								
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Physical Sciences								
Accelerator Tech-Applied Phys								
Engineering								
Nuclear Science								
Physical Sciences								
Physics								
Totals	1				4	4	1	1

Days Away, Restricted, and Transferred Cases (DART) Oct 1, 2017- May 31, 2018

FY18 YTD=11 DART Cases

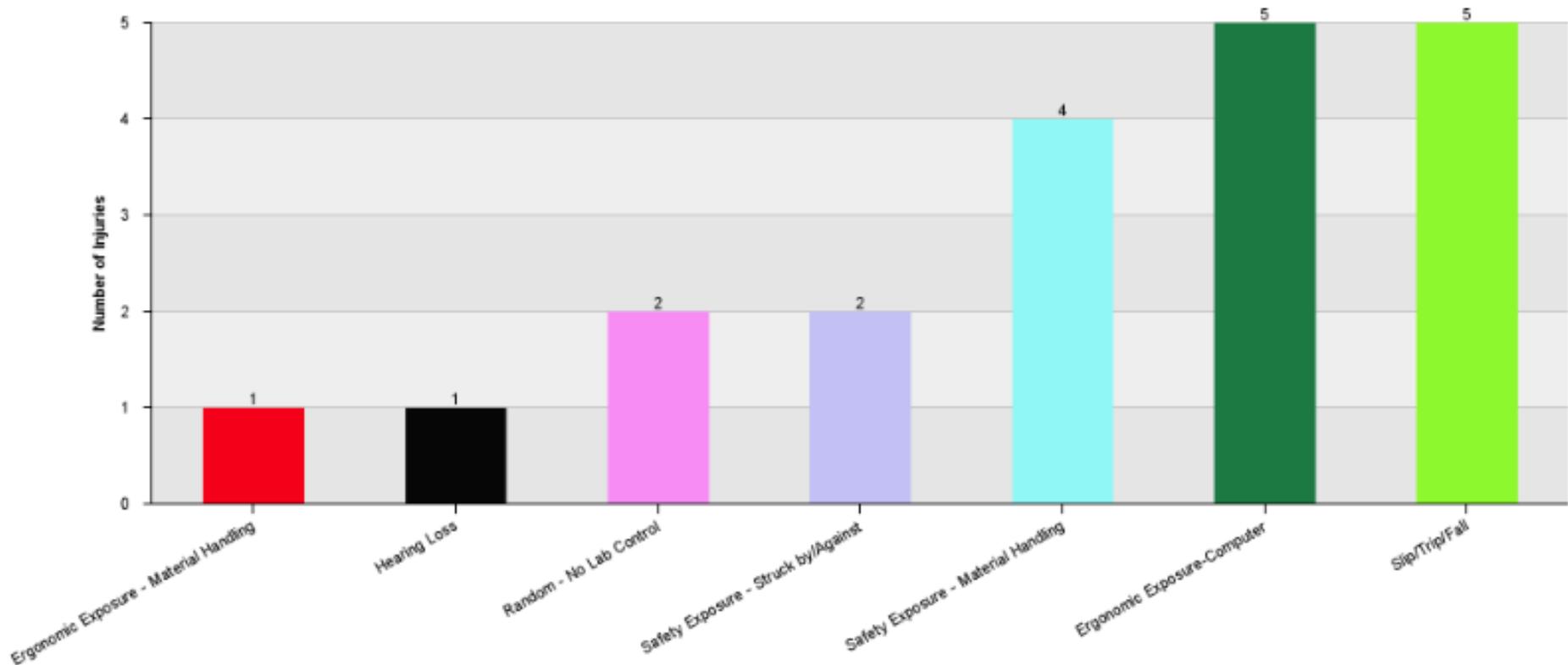
Injuries by Categories –FY18 through 5/31/18

All First Aid & Recordable Injuries N=70 [Based on Incident Date]



Injuries by Categories –FY18 through 5/31/18

Recordable Injuries N=20 [Based on Date Became Recordable]



Incidents–May 2018

10 First Aid, 2 Recordables, & 2 Report Only

Ergo Exposure-Computer

- (Rec) An employee initially reported discomfort in left elbow to personal healthcare professional and continued to work with the symptoms for months. Employee reported to Health Services after discomfort did not resolve after several months. It is unclear why the left elbow has discomfort since both arms are utilized while performing computer work and employee does not mouse with left hand. An ergo eval was completed and recommendations were made.
- (FA) An employee experienced left wrist discomfort. This incident was likely caused by computer use; specifically using left hand to use keyboard shortcuts for copy/paste at a high repetition. Worker reported discomfort promptly to supervisor who encouraged worker to visit Health Services. Ergo evaluation was completed and recommendations were given.

Ergo Exposure-Material Handling

- (Rec) An employee experienced sharp pain in left wrist. Employee does material handling so injury may be a repetitive motion injury that occurred overtime, but nothing conclusive was identified as part of the incident investigation. Employee did not experience trauma or changes in work load. Further medical testing is underway to determine if other factors may have caused the injury.

Incidents–May 2018

10 First Aid, 2 Recordables, & 2 Report Only

Safety Exposure- Chemical

(FA) A User at the Advanced Light Source was filling a liquid nitrogen transfer Dewar. The User was trained and authorized to use a specific liquid nitrogen filling station, but could not open the valve so utilized another filling station. They were not authorized or trained in the use of this other employee-only fill station. The pressure at this second the filling station was higher and when the User over-opened the valve liquid nitrogen blew out of the transfer Dewar and onto the hand of the User. The User was wearing a cryo-glove on the right hand and a maxiflex glove on the left hand. Four fingers on the left hand sustained 1st and 2nd degree burns. Corrective actions recommended included: additional PPE at each liquid nitrogen fill stations, better signage, and additional training.

Safety Exposure- Eye

(FA) An employee was folding an extension cord and the prong hit an eye. A contributing factor may have been the employee was rushing to complete task.

Safety Exposure- Material Handling

(FA) A UCB employee was helping set up for an event which involved transporting and setting up food and drink items. The individual reported right ankle, knee and hip discomfort as well as low back discomfort. It is unclear and not possible to pinpoint the specific causes of this injury. The individual has performed similar work previously and the work was not repetitive or cumulative. Previous work injuries and non-work related issues may have contributed to this injury.

Incidents–May 2018

10 First Aid, 2 Recordables, & 2 Report Only

Safety Exposure- Struck by/Against

- (FA) An employee was returning to work after lunch and was bending down to pick up a ping pong ball in the walkway and hit head on metal stairwell. Employee has slight swelling/contusion on the top of head. Employee recommends moving the table away from the stairwell to a location at the end of the hall that is more enclosed.
- (FA) An employee noticed blood on a finger after removing gloves. The finger nail was slightly pulled away from the skin causing some bleeding. It is likely the nail may have caught on something while performing lab tasks.
- (FA) An employee attempted to re-cap a needle containing Doxyrubicin. While using the left non-dominant hand to hold the cap; the left index finger was pricked with the needle. The protocol required recapping of needles. A safer alternative was integrated into the protocol.
- (FA) An employee had a laser skin exposure on the back of a hand; causing a first degree burn. Work was immediately paused and beamline is in stop work status pending re-authorization to operate. This is an ORPS incident.

Incidents–May 2018

10 First Aid, 2 Recordables, & 2 Report Only

Safety Exposure- Slip/Trip/Fall

- (FA) A Livermore Lab employee was walking in the JGI outdoor courtyard between buildings and fell. The employee sustained a knee fracture. This is an ORPS incident and is a Recordable incident for Livermore Lab.
- (FA) An employee was riding bicycle to work and turned at the top of the downhill driveway area at Centennial Road and Grizzly Gate. The gate was not yet opened and one of the barricades had blown over. Employee did not see the fallen barricade in time and struck the barricade; causing the employee to fall off bike. Employee sustained several injuries; including a shoulder fracture. This is an ORPS reportable incident but not an OSHA Recordable incident.

Incidents–May 2018

10 First Aid, 2 Recordables, & 2 Report Only

Report Only Incidents- No Injury Occurred

A Post Doc reported possible laser light eye exposure. No exposure to laser light was confirmed by LBL Optometrist. This incident is being investigated by UCB since it occurred on UCB campus.

A researcher was following published procedure to the scale of the experiment. Previously, the researcher had performed a smaller scale experiment in a sealed vial. However at scale, the container was not sealed and had two septas at the top; one for nitrogen to flow in, the other to exhaust nitrogen. The researcher noticed the solution boiling and determined a condenser was needed. Researcher did not think the mixture was superheated, and when the researcher removed the exhaust septa the contents sprayed out into the fume hood. Some of the contents got onto the researchers lab coat, shirt and exposed wrist. Causal factors included: a) pressure build up in container due to overheating of mixture b) researcher did not initially use the condenser in the experiment set up c) overheating was not recognized visually due to the small opening in the exhaust septum, which didn't allow boiling mixture to exit the container d) researcher did not let the experiment cool adequately before trying to add condenser. The researcher used a lab sink to wash wrist, hands, face and neck. The hood was secured and notifications were sent. The researcher went to Health Services the next day and was examined. No treatment was provided. The hood/lab were cleaned up the next day. The Division Safety Committee reviewed the incident the day after the incident occurred. Lessons learned and a safety minute slide will be created.

Definitions/Terminology

Report Only Incidents that occurred that did not receive any first aid or recordable treatment. No injury occurred and/or involved non-LBL person

First Aid Cases Involve one-time, short-term treatment and requires little technology or training to administer. First aid can include cleaning minor cuts, scrapes, or scratches; treating a minor burn; applying bandages and dressings; the use of non-prescription medicine; draining blisters; removing debris from the eyes; massage; and drinking fluids to relieve heat stress.

Recordable Cases Involve medical treatment **beyond** first aid such as: providing therapy; prescription medications (or use of a non-prescription drug at prescription strength); using wound closing devices such as surgical glue, sutures, and staples; using any devices designed to immobilize parts of the body; and administration of oxygen as well as an injury that causes death, days away from work, restricted work or transfer to another job, or loss of consciousness

Total Recordable Cases (TRC) All recordable injuries including: all work related deaths, illnesses, and injuries which result in treatment beyond first aid, loss of consciousness, work restrictions, and/or transfer to another job (permanent/temporary). Examples include: thermal and chemical burns; cuts, abrasions and punctures; fractures/ broken bones; respiratory irritations; hearing loss; amputations; and sprains or strain

Definitions/Terminology

Days Away, Transferred, or Restricted (DART) Cases are all Recordable Cases that have days away from work, transferred work (employee able to return to work, but not perform routine work), and/or restricted work that allow employee to return to routine work with reasonable accommodations

- Days Away= Injury prevents employee from returning to work for one or more day(s)
- Transferred/Restricted= Injury prevents an employee from performing one or more of their routine job junctions or from working the entire workday.

DOE ORPS= Occurrences that meet certain criteria that requires reporting to DOE

Berkeley Lab strives to reasonably accommodate injured workers and reduce the amount of days away
Various studies illustrate benefits to employees *and* employers in returning employees to work asap after injuries