

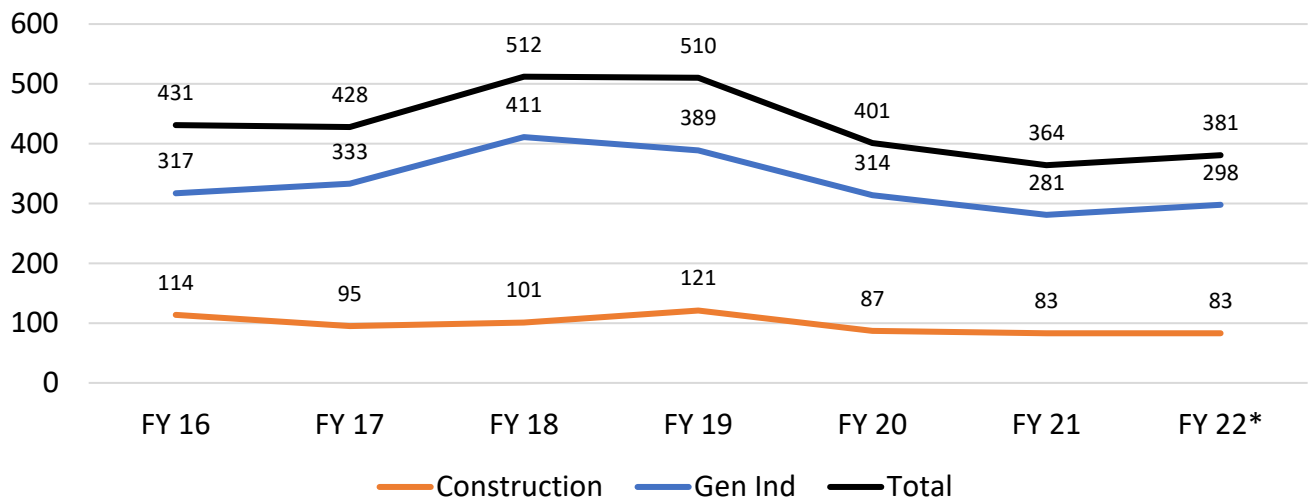
FY 2022 SE TX Construction Serious Incident Report (SIR) Estimates*

In Fiscal Year (FY) 2022 there were about 377 Serious Incident Reports (SIRs) to the SE TX OSHA offices versus 364 SIRs the previous year. SIRs incidents include cases of hospitalizations, amputations, and loss of an eye. Of the 377 reports, 294 were in general industry (versus 314 in FY 21) and 83 (same as FY 21) in construction. Let's work together to send every worker home safe at the end of the day.

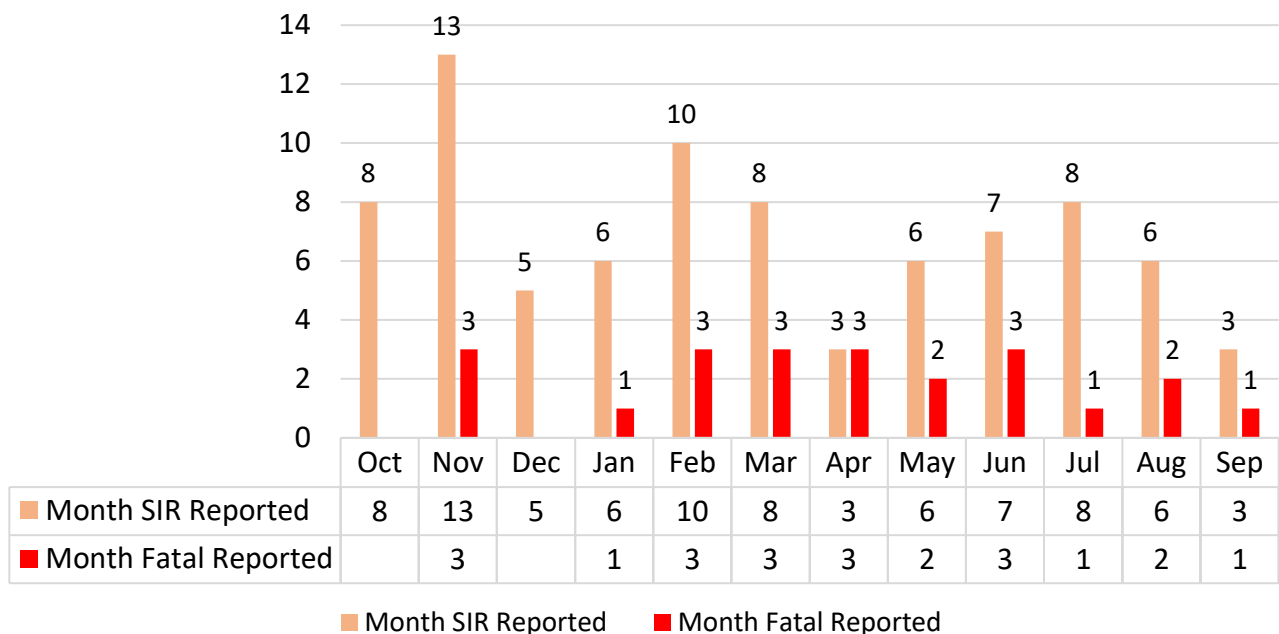


Of the 83 construction SIRs, 75 were hospitalizations and 12 were amputations. 4 of the amputations required hospitalization so they were technically counted twice. $75 + 12 - 4 = 83$

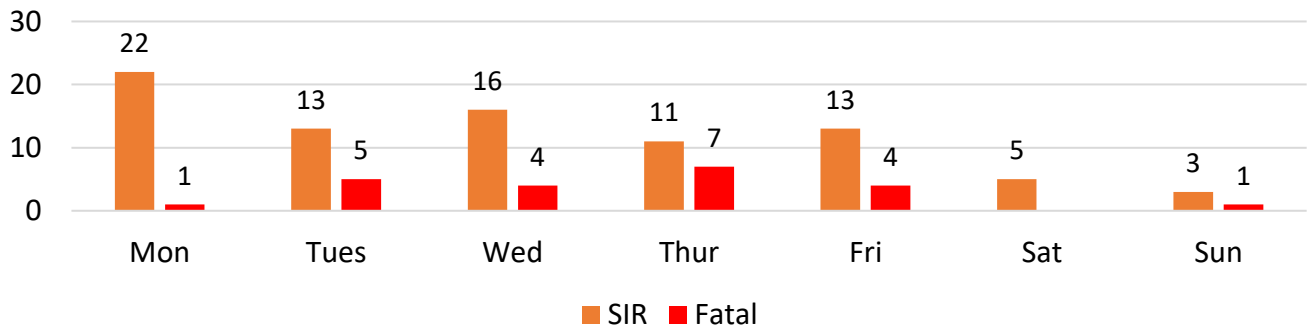
FY 22* SE TX SIRs by Gen Industry and Construction



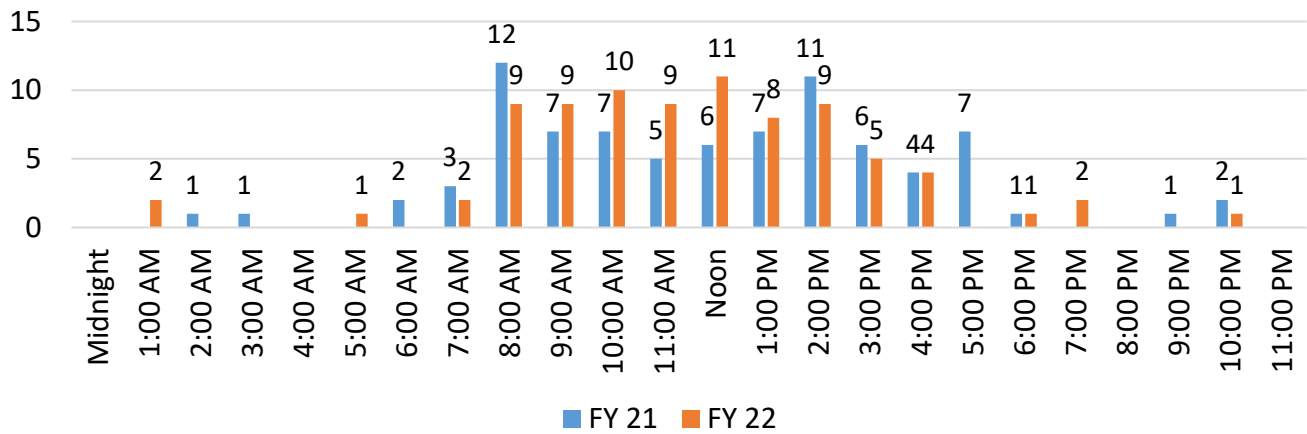
FY 22* SE TX Construction SIRs vs Fatal Incidents by Month



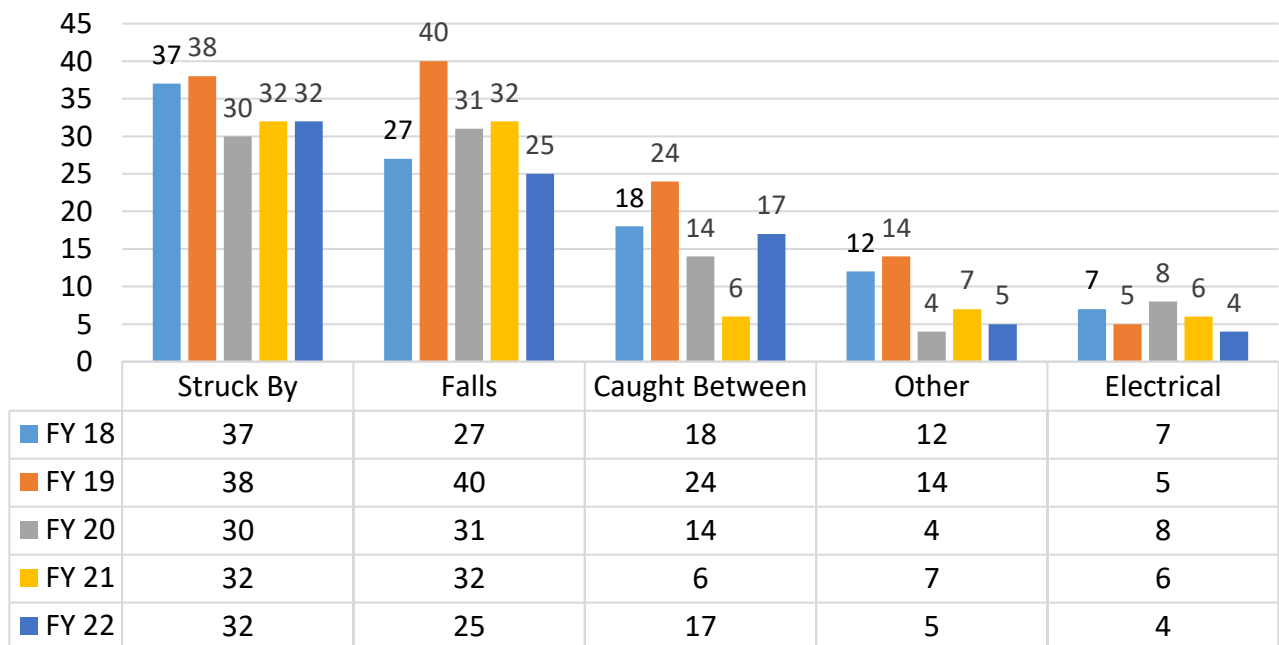
FY 22* SE TX Constuction SIRs vs Fatal Incidents by Day of the Week



FY 22* SE TX Construction SIR Incidents by Hour



FY 22* SE TX Construction SIRs by Focus Four



SE TX Construction SIRs by Events FY 22* vs FY 21

SIRs by Event	FY 21	FY 22
Struck by falling object or equipment	9	10
Struck by moving object or equipment	6	10
Caught between stationary and moving equipment or objects	5	8
Fall lower level ladder	11	8
Struck by powered vehicle	5	5
Caught between moving objects or equipment	1	4
Exposure to heat - environmental	3	3
Fall lower level structure or equipment	7	3
Fall on same level	2	3
Electrical burns	1	2
Entangled in running equipment or machinery		2
Excavation cave-in	1	2
Fall lower level building	1	2
Fall lower level pit/hole	1	2
Fall lower level roof	4	2
Fall lower level stairs		2
Struck by blade/knife/sharp object	2	2
Struck by rolling object or equipment	1	2
Arc flash	2	1
Burns chemical		1
Burns hot liquids		1
Caught between stationary equipment or objects		1
Electric shock power lines		1
Fall lower level elevator shaft		1
Fall lower level through roof opening		1
Fall through surface		1
Struck by flying object	3	1
Struck by swinging load or equipment	1	1
Struck by tool		1
Body movement	3	
Electric shock	3	
Fall lower level nonmoving vehicle	1	
Fall lower level scaffolding	4	
Fall lower level skylight	1	
Insects, snakes, animals	1	
Struck by high pressure liquid	2	
Struck by high pressure water	1	
Struck by shifting load or equipment	1	
TOTAL	83	83

SE TX Area Construction SIR Reports by NAICS Code FY 22* v FY 21

NAICS	Industry	FY 21 SIRs	FY 22 SIRs
237310	Highway, Street, and Bridge Construction	11	11
237990	Other Heavy and Civil Engineering Construction	3	9
236220	Commercial and Institutional Building Construction	6	7
238120	Structural Steel and Precast Concrete Contractors	5	7
238210	Electrical Contractors and Other Wiring Installation Contractors	12	7
238220	Plumbing, Heating, and Air-Conditioning Contractors	8	7
237110	Water and Sewer Line and Related Structures Construction	3	6
238110	Poured Concrete Foundation and Structure Contractors	3	6
238160	Roofing Contractors	4	5
238990	All Other Specialty Trade Contractors	4	5
238310	Drywall and Insulation Contractors	3	3
238910	Site Preparation Contractors	3	3
236115	New Single-Family Housing Construction	2	1
236210	Industrial Building Construction	3	1
237120	Oil and Gas Pipeline and Related Structures Construction	4	1
237130	Power and Comm Line and Related Structures Construction	3	1
238130	Framing Contractors		1
238150	Glass and Glazing Contractors		1
238320	Painting and Wall Covering Contractors	3	1
236116	New Multifamily Housing Construction	1	
238140	Masonry Contractors	2	
TOTAL		83	83

FY 22* SE TX SIR Incident Narratives by Event

Arc flash

- Electrician was attempting to open a cover on a 60 Amp buss plug and came into contact with live parts resulting in an arc flash. He suffered a fractured nose and burns.

Burns chemical

- The employee had completed a repair job on an expansion joint that had a known leak. Operations personnel had washed down the area prior to issuing the work permit. The employee was suited out in a Kappler suit that included a hood, bib pants and a jacket. Once the work was complete, the employee went through decon and removed his PPE. The employee placed his deconned PPE on the ground and proceeded to finish cleaning up the work area. Once done, he picked up the discarded PPE to take it to the appropriate disposal bin. He carried the PPE by rolling it up and placing it under his right arm. By the time he reached the bottom of the stairway to exit the unit, he felt a burning sensation under his arm. Burn chemical

Burns hot liquids

- Employee was opening a hot tar kettle and was splashed with hot tar. They were hospitalized with second and third degree burns on the legs, face, and left arm.

Caught between moving objects or equipment

- Employee had his right index fingertip amputated while changing a belt on a concrete hopper. He used his hands to relieve the pressure on the belt and pulley during the change-out, instead of the pry bar. His finger got pinched, amputating the right index fingertip.
- Employee was working inside a pond wearing waders and was positioning a 3' re-enforced steel pipe into the pond. The pipe was lifted with an excavator using a cable hook to hold a chain. The chain was wrapped around the pipe in a choker position. The employee placed his right hand on the pipe approximately 6" from the chain. The excavator moved forward and the chain caught his hand amputating his right thumb.
- Employee and a coworker were in the process of moving iron from the storage area next to a fence to the slab. When the steel was flagged up, he tried to push the steel away from the fence and the load shifted and his hand was caught between the steel tubes smashing middle finger and ring finger on both hands.
- Employee was rolling metal using a plate roller when their glove got caught in the plate roller. He could not remove his hand resulting in smashed fingers.

Caught between stationary and moving equipment or objects

- A crew of three employees, a crane operator, a rigger, and a transport supervisor were to off-load a series of counterweight, 10 tons each, from a trailer and set those counterweights on the tray. Those series of counterweight were stored on top of the trailer on piles of two counterweights and at a distance of 30-35" from the piles. After the counterweight were rigged, the rigger/signal person informed the crane operator that the rigging was settled up and the crane and load were in radius and start to lift the load. At this point crane operator started to slowly lift the two rigged counterweights. The crane operator started to come up keeping the same radius. As soon as the crane picked up the load, the load swung back in the direction of the other pile of counterweight. The rigger, positioned between the two piles of counterweights, saw the load swinging and tried to move away from the load. He stepped up with one leg on the near counterweight pile but his left leg was caught-in between the load and the second pile of counterweights. He suffered a crushed leg muscle.
- Employee was installing an anchor bolt and nut to a concrete traffic barrier when an equipment operator pulled on the barrier which caused his finger to be caught in between the anchor bolt and concrete traffic barrier. He suffered an amputated left index fingertip.
- Employees were landing a bundle of decking and an employee had hands on the decking material. The decking material was facing the wrong way so they spun it around. As the decking was spinning around, the deck was moving too fast and caught him in between a column and the bundle of decking causing a liver laceration.
- Employee was unloading a sheet metal brake machine from the back of a delivery box truck, and while they were setting it on the ground, the tip of their right index finger was amputated.
- Employee was helping with the Kelly bar and dipping bucket. A steel cotter pin would not line up and they leaned on the sleeve of the kelly bar with their left hand. The sleeve was not completely closed and it was raised about 3" above their hand. The operator of the kelly bar began to try to level the Kelly bar to lower the head into the dipping bucket. At that time the sleeve closed and crushed his left middle and right ring finger resulting in a partial amputation of them.
- Employee was flagging for a crane lift of a transformer that was being lifted into the building and got caught between the equipment and concrete. He received injuries to chest and facial areas.
- Employee was standing on the platform of a concrete crushing machine when a piece of concrete came out of the shoot and pinned him against the machine causing multiple fractures.
- Employee was resting his hand on a retracting crane outrigger. The crane operator told the employee that he was going to retract the outrigger beam so he could move the mat in the right place. The employee

thought the operator was going to swing the crane first and did not move. The operator retracted the outrigger beam and it pulled the employee's hand in between two pieces of metal and pinched their right ring finger. He pulled out his hand and the tip of the right ring finger was missing.

Caught between stationary equipment or objects

- A dump truck driver's fingertip got caught between the truck bed and tailgate as he was brushing debris off of the tailgate resulting in an amputation of the tip of the middle right finger.

Electric shock power lines

- Crew was backing a box truck into a customer's driveway. The ladder on top of the vehicle became entangled with the overhead powerlines. One of the employees climbed on top of the vehicle and tried to untangle the lines using PVC pipe and their head made contact with the energized line and fell off the truck and hit the ground and suffered electrical shock and electrical burns.

Electrical burns

- Employee was untwisting aluminum tie-wires from an energized primary and made contact with a live wire. He received burns to upper torso and shoulder area.
- Employee was checking voltages and suffered electrical burns to both hands.

Entangled in running equipment or machinery

- Employee was changing bit on drill while holding the drill and wearing latex gloves. He accidentally hit the trigger which turned on the drill. The drill bit caught the glove and pulled in the hand and amputated tip of left pinky finger.
- While in the insulated glass area of the shop floor, an employee, a loader/unloader, reached into a machine underneath where the conveyor belt is located to dislodge or brush out some of the glass fragmented pieces when his left-hand glove (fingertip) was caught up in the rolling mechanism amputating the left fingertip.

Excavation cave-in

- An employee was working in a trench attempting to repair a leaking pipe and during the repair process the trench wall collapsed onto him. HFD rescued him. He received a broken clavicle, broken ribs and bruised arm.
- Employee had been leveling dirt to make pipe grade and was going toward the other end of the trench box to exit the trench using the ladder. He went into the trench box and the benched soil above the box caved in on him. He suffered a lumbar spine compression fracture.

Exposure to heat – environmental

- Employee was welding in a 96" pipe and took a break and felt cramping. Admitted to hospital for dehydration.
- Employee was taping plastic on the ground at a new construction site and started to feel ill. Heat-related illness.
- Employee said he did not feel good that day and did not eat lunch. He said he told the supervisor he did not feel well. Supervisor said he was completely unaware and the employee never stated nor showed signs/symptoms. Water and electrolytes were onsite all day where employee was observed drinking fluids. At the end of the day all the employees were standing by the foreman truck clocking out and they did not illustrate any heat related illness per the supervisor. Employee was taken to the hospital by his wife after he arrived at home. He was provided IV hydration and stayed overnight for observation.

Fall lower level building

- Worker fell from height of approximately 42" to the ground when they exited a door, expecting a stairway to be present. The stairway at the exit to the office trailer had not been installed yet and the employee fell to the ground. They received a fractured ankle and fractured knee requiring hospitalization.
- Employee fell approximately 15' to the ground while transitioning from one tie off point to another while installing metal decking. He had disconnected both lanyards instead of only disconnecting/reconnecting one lanyard at a time. He suffered a fracture right arm at the elbow.

Fall lower level elevator shaft

- Employee was in the second floor of the single-family dwelling replacing temporary doors with permanent ones on an elevator. They opened the door while looking towards the hinges continuing to move forward and fell approximately 15'. The employee was not aware the door was to an elevator. They suffered a jaw fracture.

Fall lower level ladder

- Worker was climbing a ladder and fell approximately 10' from the ladder when it shifted.
- Employee was performing electrical work while on a ladder 8' high. The ladder slipped and they fell breaking their left arm, lacerating his head and knuckles.
- Employee was working from a step ladder installing electrical conduit. While coming down the ladder, he missed the last step down and fell twisting his knee and dislocating his knee cap requiring surgery.
- Employee was installing a sprinkler drop from a 6' "A" frame ladder on a scissor lift. They lost their balance and fell approximately 35' fracturing their arms, legs, and pelvis.
- Employee was climbing a ladder to conduct repairs on top of a refrigeration unit. As he was climbing, the ladder shifted and he fell to the floor receiving a fractured rib and a hematoma on the right kidney.
- Employee was installing insulation on a duct and fell about 4' off a 10' ladder and hit their head. He was hospitalized with head injuries.
- Worker was to paint under a window at height of approximately 10'. They separated an extension ladder and used it for access. Ladder slipped and they fell injuring their lower back, pelvis, and hip.
- Employee was climbing a ladder to the top of a box culvert and fell.

Fall lower level pit/hole

- An employee was removing a manhole cover in an area that was very slippery due to rainy conditions the night before and slipped and fell into the hole about 15'. He suffered cracked ribs on his right side.
- Employee walked into the pump room, which is dark. Two co-workers were in the work area working. He walked over and there was a sump pump hole about 2-3' deep in the floor and he unknowingly stepped into it. He suffered a broken bone on lower left leg.

Fall lower level roof

- A steel erection crew was installing roof decking at a height of about 40'. An employee stepped on an unsecured piece of sheet metal and fell to the ground level floor.
- An employee was installing insulation and roofing material from a building 25' above the ground. The wind started blowing and they reached for the material and fell to the ground sustaining a fractured to his face, a broken left wrist, and broken ribs.

Fall lower level stairs

- Employee was standing at the top of a run of cement stairs in a building under construction. He became light headed and passed out, falling down the flight of stairs. He suffered broken ribs and pelvis.
- Employee was installing an air conditioning unit in the attic of a residential home and fell backward down the stairway breaking four ribs on the right side.

Fall lower level structure or equipment

- Employee was putting up blocking in a truss. When he moved to a new blocking area, he stepped onto a 2x4 truss bridge. The fasteners holding the 2x 4 pulled out causing him to fall 10 feet. He fell onto an upright 8' ladder then onto an air tank resulting in a broken lower right arm.
- Employee was locking up columns so that they could pour concrete. The columns were about 10' tall and he was attached to an SRL. His positioning belt did not latch properly and when he pulled on it, it gave way. He fell about 6'. His SRL engaged but he struck another employee that was working beneath him. On his way down, his tool belt hit a rebar piece, taking the cap off. The same rebar pierced his armpit as he fell, impaling him.
- Employee fell approximately 7' from a work platform while transferring boxes to the floor below. They suffered a broken rib, broken collar bone and undetermined lung injury.

Fall lower level through roof opening

- An employee was installing metal decking on a roof when he fell approximately 40'. The employee was decking a 70,000 square foot roof on a two-story building. The employee who fell was one of eight other employees tasked with decking a roof. While performing this task, all employees wore body harnesses, double lanyards, beamer anchors, and SRLs, except two employees. The employee that fell did not have an SRL. After the two exposed employees that did not have SRLs moved about 20 sheets, they took a short break on the roof. After their break, they got up to start moving more sheets. While heading back to start work, one employee slipped and fell through an approximate 30' x 3' deck opening, plummeting approximately 40' onto a concrete surface and suffered multiple fractures to limbs and skull.

Fall on same level

- Employee was pulling on pry bar to place rebar in correct spacing and tripped and fell dislocating and fracturing the right ankle.
- Employee was on top of trailer and miss-stepped and fell forward striking his head on the trailer. He received a fracture to his neck vertebrae.
- Employee was cleaning his pickup truck and slipped and fell on the tailgate of his pickup truck injuring his hip requiring surgery.

Fall through surface

- Employee was working in an attic at a residential home. He lost his balance and fell through the sheet rock dislocating his shoulder. Employee was working in an attic at a residential home. He lost his balance and fell through the sheet rock dislocating his shoulder.

Struck by blade/knife/sharp object

- An employee was working on a vessel in a ship channel when it began to take on water during the storm. He pushed out a window to exit the vessel and lacerated his left hand and arm and ingested water.

- The employee was servicing a roof-top HVAC unit and reached in from the underside of the unit and came into contact with the spinning fan blades of the condenser. He received an amputation at the knuckle of the left ring and middle finger.

Struck by falling object or equipment

- Employee had just lowered the spreader bar using the crane and removed the hook. He raised the crane and it clipped the spreader bar and it tilted over landing on his left foot causing a fracture.
- Two employees were using a manhole pick to lift a manhole. He lifted the manhole cover with the pick using his right hand and went to reach for it with his left hand to secure. The manhole cover slipped off the pick and pinched his left index finger pinching off the tip behind the nail of left index finger requiring surgery for a skin graft.
- Employee was using a propane and oxygen blow torch to cut a large metal container. A piece of metal fell from the container and struck him resulting in a fractured femur, head concussion and possible brain bleed.
- A work crew was attempting to lower a 10'x10' sheet of steel into an excavation. The boom of the excavator hydraulics failed causing the sheet to be lowered. When the sheet made contact with the floor of the excavation, it came loose from the sling rigging and began to fall over. The employee attempted to get out of the way but was struck by the steel sheet receiving a pelvis fracture.
- Employees were working in a trench approximately 8' deep and 30' long. They were lowering a concrete block down to the bottom of the trench with a chain on an excavator. The trench was benched back but no shoring. The 7'x2' 8,000 pound concrete block fell striking an employee fracturing his hip.
- Employee had assembled an I-beam rafter structure on the ground and was preparing to lift it. The structure was on its edge standing up. He was tightening a bolt on the I-beam structure and as he was tightening the bolt with the torque wrench, the I-beam structure fell over on to their left leg breaking the left femur.
- Employee was unloading a spool of metal sheeting. The spool of metal sheeting slipped off the back of the truck, bounced up, and struck him in the face (nose), right shoulder, and fractured their right leg.
- Employee was struck by a falling 2"x12"x8" board and sustained a fractured shoulder.
- An employee was attempting to throw a toilet in a dumpster. The toilet failed to enter the dumpster and fell cutting their arm resulting in a laceration that required him to be hospitalized.
- Employees were demoing a system scaffold, and as an employee was passing material down to a fellow employee he was struck in the eye by a nail from the above platform. He suffered a corneal abrasion of the right eye.

Struck by flying object

- Employee was disconnecting an air hose that had store energy in it. The hose whipped around and struck them in the lower leg causing a fractured leg requiring surgery.

Struck by moving object or equipment

- Employee was in the process of helping to move a 1,600 lb. piece of steel from the ground to a barge. The piece of steel rotated and hit them in the lower right leg fracturing it.
- Employee was rigging piles on a trailer when the rigging piles shifted and the trailer tire hit the employee breaking the right leg and right ankle.
- Employee was working near a moving belt and their finger was struck by the moving belt amputating a finger.
- Employee was hit by mini excavator while checking out a ditch.

- Employee was disassembling a temporary transmission structure. A conductor butterfly-shoe broke as they removed it, which caused a polymer stand-off insulator to release and strike him in the face which fractured the jaw.
- On the loading side of the project, an employee's left foot was struck by the concrete barrier being loaded onto a flatbed truck causing a foot fracture.
- Employee was using a crowbar to move a 5'x5'x 1/4" thick steel plate. The crowbar slipped causing them to be struck in the left leg by the plate breaking their femur and tibia.
- The employee drove a mixer truck to the site for a paving job. He got out of the truck to wait for his job to begin. While doing so, he started adding water and charging the load. The truck, which had been left in neutral, moved in reverse and struck him running over his legs.
- Employee was receiving a scissor lift and after receipt, he was moving the 40' lift closer to the work space area using a joystick controller as he walked alongside of it. The scissor lift front right wheel ran over his left heel causing him to fall resulting in a left lower leg fracture.
- Employee was struck by an excavator bucket while securing a chain to a bundle of rebar and suffered a broken pelvis bone.

Struck by powered vehicle

- Employee was making adjustments to a milling machine. The operator did not know that he was next to the machine and turned the machine on. The tracks went over his steel toe shoes and dislocated two toes in the right foot.
- Employee was using a shovel to clean out barricades inside the work zone. A motor vehicle entered the work zone and struck him and exited the construction zone. He suffered three fractured ribs and a swollen leg.
- Employee was on his phone distracted and walked too close to the front end loader bucket truck that was clearing the construction site. He was in the bucket truck's blind spot and operator did not see him. The bucket truck ran over his foot causing three fractures in it.
- Employee was taking a water break and the foreman hit him with his truck as he was backing up. He sustained a broken sternum.
- Employee was on his way to a jobsite and was waiting to cross the street and was struck by a vehicle that was involved in a two vehicle accident on the street. He suffered a broken foot and had to be hospitalized.

Struck by rolling object or equipment

- Employee was operating dump truck on dirt hill and the truck ran off the side and rolled over resulting in body injuries.
- Employee was holding a tag line to guide a piece of steel that was in the air getting ready to be moved. They were standing near a pipe which was seating on wooden boards. A wooden board suddenly rolled off by itself that caused another pipe to roll off the board and the square end of the pipe (pipe strut) struck him in the left foot breaking four toes.

Struck by swinging load or equipment

- Employee was struck in the chest by an auger machine while it was being lifted and suffered a bump on the head and a fractured rib.

Struck by tool

- Employee was drilling concrete when the drill bit broke causing the drill bounce striking him in the left foot fracturing it.

*Disclaimer: Preliminary information – The OSHA Fiscal Year (FY) runs from Oct 1 through September 30. Fatalities and Catastrophes are logged or recorded in various mediums and reports generated using various criteria. Late reporting, natural causes which may have generated an initial report, fatalities transferred to other jurisdictions and other factors may affect the overall numbers over time. Some incidents may end up not being work related. Once medical determination is made the information will be updated SE TX data is edited to determine an estimate of incidents under OSHA jurisdiction and may change over time as records are updated. Narratives are based on the first report of injury and is usually used 'as is' with editing for readability and may not reflect the final results of an investigation. Motor vehicle incidents, workplace violence, sole proprietors, Covid-19, drug related, suicide etc. are not generally included. The numbers and information are for accident prevention purposes and trending and is not intended to be a statistical study or evaluation. The goal has been to track the same types of incidents to get a rough comparison on whether core incidents increased or decreased. For questions contact the Houston North OSHA Office, Jim Shelton, CAS, at shelton.james@dol.gov