

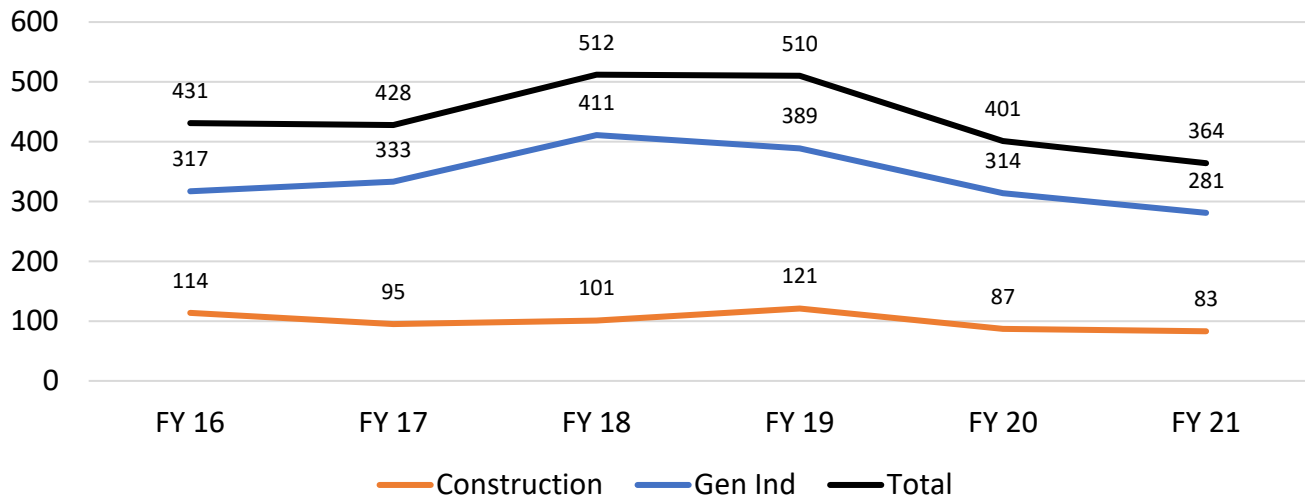
FY 2021 SE TX Construction Serious Incident Report (SIR) Estimates*

In Fiscal Year (FY) 2021 there were about 364 Serious Incident Reports (SIRs) to the SE TX OSHA offices versus 401 the previous year. SIRs incidents include cases of hospitalizations, amputations, and loss of an eye. Of the 364 reports, 281 were in general industry (versus 314 in FY 20) and 83 (versus 87 in FY 20) in construction. Let's work together to send every worker home safe at the end of the day.

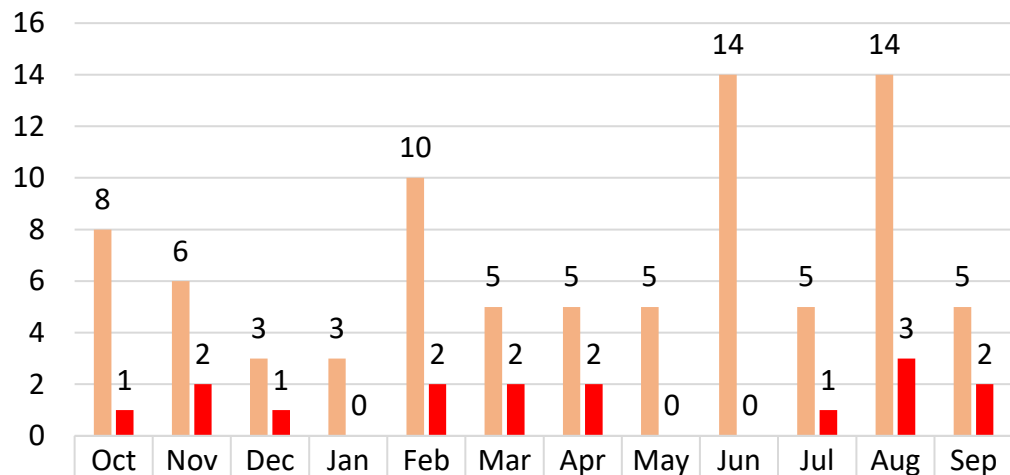


Of the 83 construction SIRs, 78 were hospitalizations and 7 were amputations. 2 of the amputations required hospitalization so they were technically counted twice. $78 + 7 - 2 = 83$

FY 21* SE TX SIRs by Gen Industry and Construction



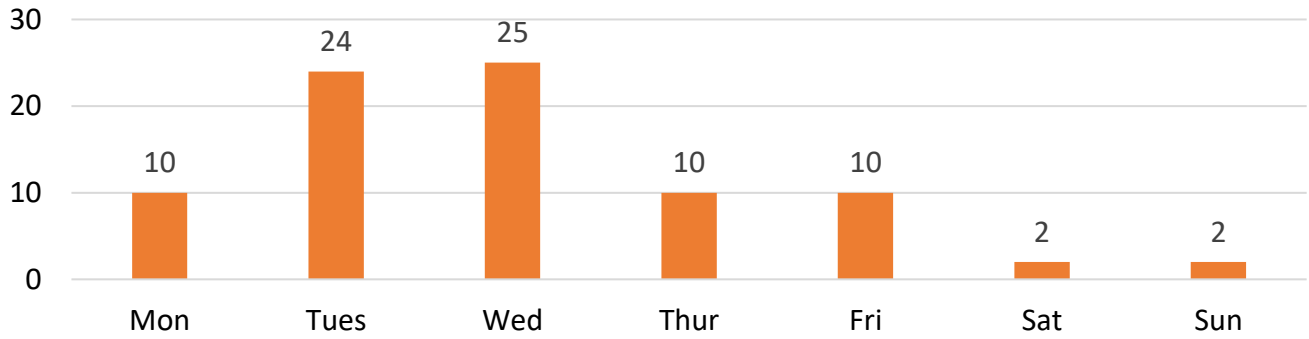
FY 21* SE TX Construction SIRs vs Fatal Reports by Month



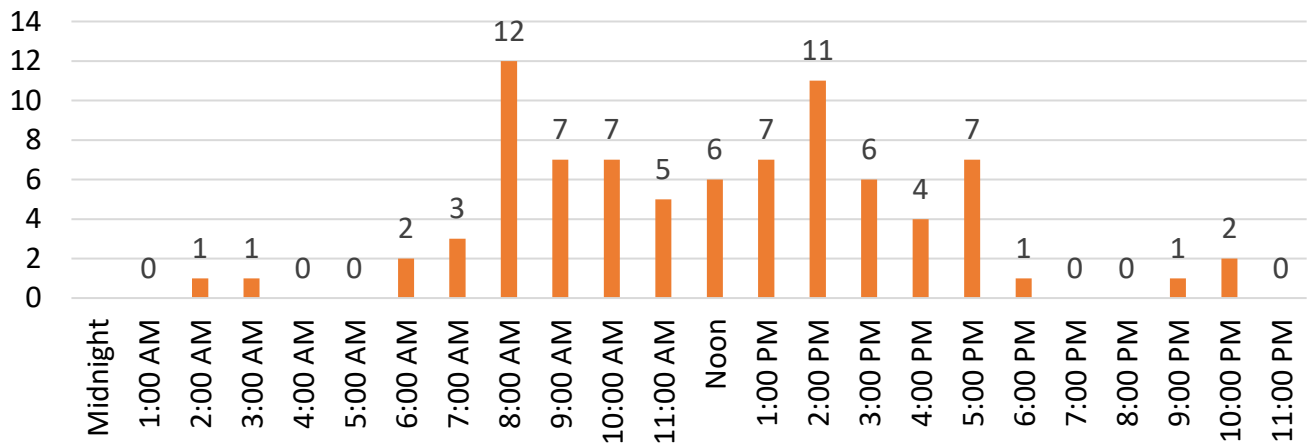
■ Month SIR Reported	8	6	3	3	10	5	5	5	14	5	14	5
■ Month Fatal Reported	1	2	1	0	2	2	2	0	0	1	3	2

■ Month SIR Reported ■ Month Fatal Reported

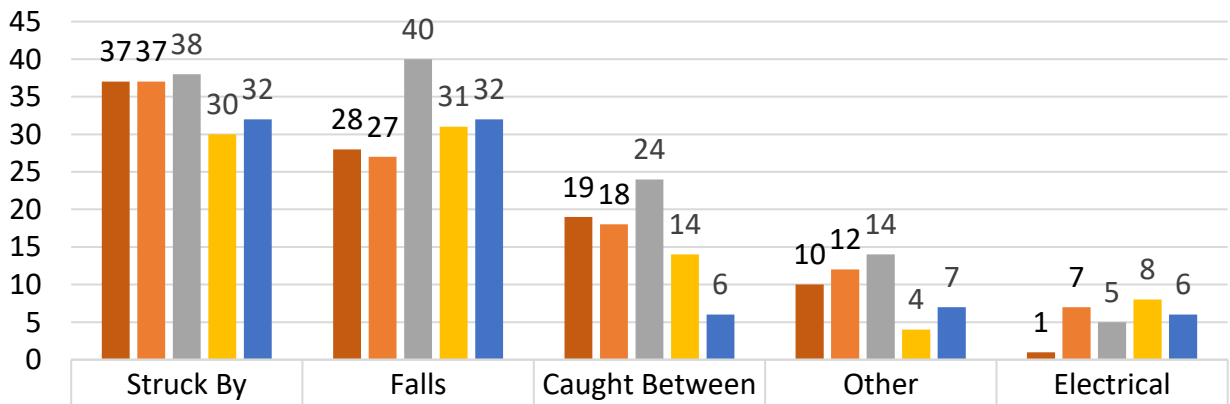
FY 21* SE TX Constuction SIRs Incidents by Day of the Week



FY 21* SE TX Construction SIR Incidents by Hour



FY 21* SE TX Construction SIRs by Focus Four



	Struck By	Falls	Caught Between	Other	Electrical
FY 17	37	28	19	10	1
FY 18	37	27	18	12	7
FY 19	38	40	24	14	5
FY 20	30	31	14	4	8
FY 21	32	32	6	7	6

SE TX Construction SIRs by Events FY 21 vs FY 20

SIRs by Event	FY 20	FY 21
Fall lower level ladder	11	11
Struck by falling object or equipment	10	9
Fall lower level structure or equipment	3	7
Struck by moving object or equipment	0	6
Caught between stationary and moving equipment or objects	5	5
Struck by powered vehicle	1	5
Fall lower level roof	4	4
Fall lower level scaffolding	2	4
Body movement	1	3
Electric shock	1	3
Exposure to heat - environmental	1	3
Struck by flying object	3	3
Arc flash	3	2
Fall on same level	2	2
Struck by blade/knife/sharp object	7	2
Struck by high pressure liquid	0	2
Caught between moving objects or equipment	6	1
Electrical burns	2	1
Excavation cave-in	0	1
Fall lower level building	0	1
Fall lower level nonmoving vehicle	1	1
Fall lower level pit/hole	1	1
Fall lower level skylight	2	1
Insects, snakes, animals	0	1
Struck by high pressure water	0	1
Struck by rolling object or equipment	1	1
Struck by shifting load or equipment	2	1
Struck by swinging load or equipment	1	1
Arc flash power lines	1	0
Burns chemical	1	0
Caught between stationary and falling equipment or objects	1	0
Electric shock power lines	1	0
Entangled in running equipment or machinery	2	0
Fall	1	0
Fall lower level elevator shaft	1	0
Fall lower level moving vehicle	2	0
Fall through surface	1	0
Other/unknown	1	0
Struck by	1	0
Struck by collapsing structure, equipment, or material	1	0
Total	87	83

FY 21 SE TX Area Construction SIR Reports by NAICS Code FY 20 v FY 21

NAICS	Industry	FY 20 SIRs	FY 21 SIRs
238210	Electrical Contractors and Other Wiring Installation Contractors	9	12
237310	Highway, Street, and Bridge Construction	4	11
238220	Plumbing, Heating, and Air-Conditioning Contractors	5	8
236220	Commercial and Institutional Building Construction	7	6
238120	Structural Steel and Precast Concrete Contractors	5	5
237120	Oil and Gas Pipeline and Related Structures Construction	4	4
238160	Roofing Contractors	4	4
238990	All Other Specialty Trade Contractors	7	4
236210	Industrial Building Construction	3	3
237110	Water and Sewer Line and Related Structures Construction	5	3
237130	Power and Comm Line and Related Structures Construction	4	3
237990	Other Heavy and Civil Engineering Construction	7	3
238110	Poured Concrete Foundation and Structure Contractors	7	3
238310	Drywall and Insulation Contractors	4	3
238320	Painting and Wall Covering Contractors	0	3
238910	Site Preparation Contractors	3	3
236115	New Single-Family Housing Construction	1	2
238140	Masonry Contractors	2	2
236116	New Multifamily Housing Construction	0	1
238130	Framing Contractors	2	0
238150	Glass and Glazing Contractors	1	0
238170	Siding Contractors	1	0
238290	Other Building Equipment Contractors	2	0
TOTAL		87	83

FY 21* SE TX SIR Incident Narratives by Event

Arc flash

- Employee was placing fiber optic cable on a utility pole line. He climbed the pole and was positioning a lasher machine. The electrical lines were energized at 14,400 volts. As he was swapping the equipment (lasher) from one side of the pole to the other an arc flash occurred between the energized line and the employee's work belt causing severe burns to his body.
- Employee was testing a circuit breaker panel for power with a multimeter when there was an arc flash. He suffered burns to his arms and hands.

Body movement

- Employee was reaching up installing plastic sheets when his stomach started hurting and suffered a hernia.
- Employee was climbing onto an upper scaffold deck for modification. As he was lifting his left leg up 2' to climb onto the upper scaffold deck, he felt a pain in the abdomen and suffered an inguinal hernia.
- Employee was emptying a wheelbarrow half filled with concrete when the load shifted. He tried to keep the wheelbarrow from tipping over and this action caused this left knee to buckle resulting in a dislocated knee.

Caught between moving objects or equipment

- Employee was shaking out steel rods at a construction site as they were being unloaded from a truck. His right hand was caught in a "pinch point" between a cable and the steel rods amputating his right thumb above the first joint.

Caught between stationary and moving equipment or objects

- Driver was cleaning out his truck and got his hand caught in the tailgate fracturing a bone in his hand.
- A forklift operator was instructing another employee where to secure a load of pipe. A pipe in the load shifted and pinched the operators thumb between the pipe and cab mounting bracket on the forklift severing the right thumb above the top knuckle.
- Employee was operating a 50 ton press on a compression mold. He failed to de-energize the piece of equipment, and had the press lever in the "down" position, and not "neutral", before reaching into the press to flip the mold. His right index finger was crushed resulting in the amputation of the entire finger down to the first knuckle.
- Employee was cleaning a buildup of grease on the drum roller bearing of the mixer truck because the roller wasn't rotating. He went to the side of the truck next to the roller and attempted to clean the grease underneath the roller. While doing so, the roller started rotating and made contact with his left middle finger partially amputating it.
- Crane operator hoisted a load of two 40' sections of pile driving leads, placed it, lowered it. Two riggers unhooked the rigging and put the empty hooks beside the load and signaled the operator to hoist the empty hooks. When the operator hoisted, a hook inadvertently hooked onto the load shifting it and creating a pinch point where an employee was positioned. He suffered a skinned part on the backside of his right calf, a 1"x6" minor cut, and a 4" cut on front side lower right leg.

Electric shock

- Employee was wearing electrical gloves while replacing an electrical breaker for a garage door at a residential site and received a 120 volt electrical shock to his right hand.
- While working on a ladder an employee's neck made contact with a live 480v electrical wire. The shock caused him to fall off of the ladder and he struck his head on a transformer box. He suffered a fractured left femur and open head wound.
- Employee was installing HVAC ducting from a ladder with his back towards wiring with wire nuts. A wire nut came loose, exposing the wire. He was shocked with 277 volts of electricity. Employee was taken to an emergency clinic for electric shock and while at the clinic, he experienced a stroke and was transported to the hospital.

Electrical burns

- Employee was performing "hot work" on primary electrical lines when he contacted the primary electrical line and sustained burns to each arm.

Excavation cave-in

- Employee was working in a trench when a section of the excavation not protected started to collapse. He attempted to exit the excavation and his leg was struck-by the falling soil.

Exposure to heat – environmental

- Employee began vomiting and was taken to the hospital with a possible heat related illness.

- Employee was installing a tankless water heater/repairing pipe in an attic at in the morning for about 4-5 hours. He told his supervisor he was not feeling well after the morning work, but was advised to continue to afternoon job location. In the afternoon, he installed an outdoor sewage line at a second location for about 3 hours. He felt very ill finishing work at the site at about 4:45pm. While departing the location he lost consciousness and his vehicle was stopped by a curb. He awoke to a passerby knocking on his vehicle window to check to see if he was OK. He went to the hospital and was admitted and was treated for heat stroke and a minor heart attack.
- The employee was putting a nipple on a pipe and was hospitalized for a heat related illness.

Fall lower level building

- Employee was reaching for assorted hardware pieces that had been raised by a forklift to the fourth level and fell to the ground fracturing his orbital and lacerating his face, torso, and right arm.

Fall lower level ladder

- Employee was inspecting HVAC equipment in an attic. He slipped and fell 8' while he was going down the attic access ladder breaking his left leg.
- Employee fell from a ladder and suffered fractures.
- Employee was changing a light fixture and while descending a step ladder he slipped and fell to the ground breaking his hip.
- Employee was installing a gutter box on a 9' ceiling using an 8' ladder. He was standing on the 3rd rung of the ladder and when he went to descend the ladder, he missed a step and fell fracturing his hip.
- Employee was climbing a ladder to access the roof and fell injuring his right ankle and left ring finger.
- An employee was carrying a push broom and slipped and fell onto a concrete floor while descending a wooden, job-made, single-cleat ladder. His left foot slipped on about the 8th cleat and he fell backward onto the push broom and the floor sustaining bruised ribs, a fractured right arm, and lacerations to the lower lip.
- Employee was working on 10' A-frame ladder installing electrical conduit. His body was not in proper position with no 3-point contact. He lost his balance and the ladder fell to the left and he fell to the right. He suffered a broken pelvis and right leg.
- Employee was exiting the roof of a project using a ladder. After climbing down a couple of rungs he slipped and fell onto some cinder blocks causing fractures and, in his ankle, foot, and heel.
- Employee was working from an 8' platform ladder sanding walls with a dry sand block. As he stepped down from the ladder, he got distracted speaking with a co-worker and missed a step of the ladder. He fell to the ground suffering a head contusion.
- Employee was installing wiring on an HVAC unit working from a 4' ladder and lost their balance and fell back hitting their head.
- Employee was repairing building lights from a 10' ladder. As he was closing the light fixture, he noticed that the ladder was in the way. He tried to hop the ladder while he was on it to free it from the light fixture. He lost his footing and fell from the ladder injuring his left leg.

Fall lower level nonmoving vehicle

- Worker fell from a boom lift truck and was injured.

Fall lower level pit/hole

- Employee was standing beside a trench being prepared by a mini-excavator operator. He fell into the trench and dirt collapsed along with his fall. He suffered a broken leg/foot.

Fall lower level roof

- The employee had finished delivered roofing materials and was removing a fall protection anchor point. He lost his balance and fell injuring the right side of his body
- Employee was working on roof and reached for a sliding nail gun and fell off of the roof.
- Worker fell from the roof of a one-story residential property under construction and was hospitalized.
- Employee was retrieving materials from the roof of a residential home and fell onto the driveway suffering head trauma.

Fall lower level scaffolding

- Employee was painting and fell 5' feet from a scaffold and landed on head and was hospitalized for a head injury.
- Employee was setting up an elevated extended scaffold platform. He installed three inner side brackets and then put up a wood board to perform the brick laying work. The side bracket is the triangle extension for the scaffold. It is attached to the scaffold, so that they can create elevated working platform. He only installed 3 side brackets instead of 4 on the third level of the scaffold. He forgot to install the side bracket at one end. As he was walking on the platform, the wood board overturned due to no support from the side bracket, and he fell 20' to the ground suffering internal injuries.
- Three employees were dismantling tube and coupler scaffolding when it fell. They fell with scaffolding approximately 26' to the ground. Two of the employees suffered multiple fractures.
- Employee was setting up an area to install a tube sheet and fell from the scaffold work platform opening approximately 20' to the floor below fracturing his right ring finger.

Fall lower level skylight

- Employee was unloading metal roofing material. He disconnected to exit the roof and fell through a fiberglass skylight and was hospitalized with a bleeding spleen.

Fall lower level structure or equipment

- Employee was beginning to weld angle iron on a new bridge and fell 51' to ground below fracturing his face and ribs.
- Operator of a foundation drilling rig was operating the rig when he leaned back in the operators chair which had rusted from the inside out. The seat broke and he fell 7' to the ground breaking his back and splitting his head open.
- Employee was working on top of a column helping to secure bridge beams that were being set. While placing one of the beams, the beam bowed downward in the middle and broke. When the beam broke, it scattered pieces of concrete all over the area below and around the immediate area. One piece struck an employee who was on top of the cap, and knocked him off of the cap. He was wearing a harness and lanyard and tied off to a horizontal life line. The lanyard deployed saving him from falling 75 ft. to the ground. When the lanyard deployed, he was propelled back toward the cap and struck it fracturing a rib and lacerating his spleen.
- While passing 100 lb. lumber forms on a rip rap slope, an employee slipped and fell approximately 8' off a retaining wall to the ground. He sustained lumbar fractures to the T6 and T12 with a tension band to the T11.
- While exiting a 68" high crane deck an employee lost his balance and fell to the ground fracturing two ribs and spraining his shoulder.

- Employee was doing steel erection and did not have fall harness properly tied off/ hooked on and when he fell, he landed on pile of angle iron and suffered four broken ribs.
- Employee was on top of the shipping material cutting the banding off when he slipped and fell down fracturing his tibia and fibula.

Fall on same level

- Employee was blowing insulation and slipped and fell over the studs on the attic floor lacerating his ribs.
- Employee was walking out to his vehicle and slipped on a slab of cement fracturing the patella on his right leg.

Insects, snakes, animals

- Employee was walking the grounds by the guard shack and was bitten by an unknown insect (suspected spider) which caused a severe stinging sensation in his left ring finger which then became discolored and swelled up.

Struck by blade/knife/sharp object

- Employee grinding on a metal frame and lacerated his left knee.
- Employee was on an aerial lift cutting vinyl with a circular saw. His hands were too close to the saw blades and when the saw kicked backed it caused a laceration to his left pinky finger.

Struck by falling object or equipment

- Employee went over to assist another employee with a load of steel metal pieces that were being lifting by the crane. The load was approximately 3' off the ground when a piece of steel metal fell striking his left foot fracturing it.
- Employees were hoisting a garbage chute with the assistance of a crane. During the lift, the chute broke free, striking two employees. One employee was treated with first aid on site, while the other employee was taken to a medical facility for treatment.
- Employee was using an air jack to jack up an 18-wheeler trailer. The jack was under the rear trailer bumper and the bumper broke when the welds failed. The 800 pound jack falling on him and he sustained a laceration on the forehead, fractured ribs and injury to his spleen.
- Employee was spraying releasing agent on an 8' wooden form column and noticed that the form was leaning toward him and shouted 'watch out'. He tried to run but was not able to move away fast enough and the form fell forward on his lower torso fracturing his hip.
- Employee was approaching a debris pile to move the debris with a skid steer. A piece of debris, containing brick, cement, and rebar, was thrown from the second floor, into the pile striking him in the left leg fracturing it.
- A crew was tasked with replacing a transformer at a residence. The mini-digger derrick operator attempted to move between two residences to gain access to a backyard, as three other coworkers placed plywood boards onto the ground. As he attempted to transition from the concrete driveway to the sloped grass yard, the mini-digger derrick tilted towards its left side. As it was tipping over, he reached toward the outrigger and his hand was caught between a light pole and the outrigger. He was pulled towards and struck by the mini-digger as it fell over. He sustained a loss of four front teeth, a fractured breastplate, a broken arm, and a de-gloved left hand.
- Employee was moving a large 2300 lb. metal table with an overhead crane in a welding shop. He used a single sling for rigging instead of two slings and the table got overbalance and fell on his right leg breaking it.

- Employee was trying to adjust forks on a lull he was using and appears to have removed a pin which secured the fork attachment to the lull. The attachment fell from the lull fracturing his right arm and hand.
- Dozer operator was operating close to the leading edge of the embankment and drove it off the 5' embankment. The dozer went end over end and he received a fractured right-side cheek bone and head contusion.

Struck by flying object

- Employee was using a sledgehammer to remove a metal keeper. When the hammer contacted the keeper a metal piece broke off and struck him in the right eye.
- Employee was removing a staple from a wire conductor reel when the staple dislodged from the wood and struck him in the eye injuring it.
- Employee was on a jobsite performing a leak test/pressure test on a line set when a piece of steel blew off the end of the copper line and hit him in the head. He fell down and received a significant cut on the back of his head.

Struck by high pressure liquid

- Employee was attempting to adjust the housing on the tip of the spray gun and did not engage the trigger safety mechanism. He accidentally engaged the trigger while making the adjustment and ceramic coating went through his glove into his left index finger requiring a surgical wash.
- Employee was using spray paint equipment and incurred a puncture wound to his left index finger that required hospitalization.

Struck by high pressure water

- The employee was using a pressure washer jet to clean a water valve. The tip was leaking and he attempted to adjust the tip while the pressure washer was energized. He accidentally triggered the wand and shot the stream of water into the palm of his right hand.

Struck by moving object or equipment

- A cement truck driver was discharging concrete into an excavator bucket at a construction site. The excavator operator moved the bucket and struck him in the right ear crushing and lacerating it.
- Employee was stick welding a clip on the outside of the building from an aerial lift. While he was welding, the elevator came down and made contact with his right hand cutting it.
- Crew had just finished backfilling an excavation on a construction site and were putting lime on the soil. The operator of the mini excavator was backing up and ran over an employee. The employee was standing behind the excavator and he tried to move as he heard the back alarm but he slipped and tripped due to the muddy conditions. He suffered a broken left leg.
- Employee was attempting to repair a guardrail system which had been damaged by back-filled soil. A skid-steer operator was attempting to remove soil from/off the guardrail system while he attempted to pull the stanchion out and away from the skid-steer bucket. His right index finger was injured when the bucket struck/caught the employee's finger between the stanchion and the bucket amputating the tip.
- Employee was installing an I-beam and was lining up a pin to insert into a bolt hole. The I-beam tipped and struck his right hand amputating the tip of the middle finger.
- Employee was walking to the rear of the 18-wheeler delivering rebar to the site to help guide it. As he walked to the rear of the truck, a front end loader grabbed one side of the rebar which caused the other side to jump up and hit him on his left leg. He suffered fractures to his tibia and fibula.

Struck by powered vehicle

- An employee was checking the suspension under a trailer and the driver didn't know he was under the trailer and backed over him breaking his pelvis.
- Employee was in a port-o-potty in a parking lot at a construction worksite and was struck by a moving vehicle breaking his femur.
- A crew of employees were loading a truck. The truck driver wanted to adjust the plate that was loaded on the truck so the forklift operator placed the plate down and moving into position. The flagger was too close to the forklift and was struck by the forklift on his feet/leg possibly breaking it.
- Employee was working on a concrete spacer when a dump truck backed up and struck him fracturing his leg.
- Employee was walking out of the storage rack towards the dispatch office. A clamp truck operator had a load that obstructed their view and the employee walking did not observe for traffic and was struck by the clamp truck suffering pelvic injuries.

Struck by rolling object or equipment

- Track hoe operator was moving the top portion of a retaining wall from the highway elevated main lanes. The operator pulled the bucket toward the side of the excavator causing the track hoe to skid on the concrete paving. The track hoe fell off the edge and landed on the ground below and the operator suffered two broken ribs.

Struck by shifting load or equipment

- Employee was operating a dump truck/skid steer transporting temporary access mats. The mats were stacked on the back of the equipment and he hit a section of the road causing equipment to become unstable. He impacted something and received a crushed vertebra.

Struck by swinging load or equipment

- Employees were working on a concrete ground box and attempted to set the steel lid. They were guiding the lid which was suspended using a back hoe the knuckle of the backhoe curled causing the load to swing. His hand was pinched between the lid and box amputating two fingers on his left hand.

*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. Narratives are generally based on the first report of the incident and are rewritten and edited for brevity and/or readability and may not reflect the final results of an investigation. SE TX data is edited to determine a count of SIRs under OSHA jurisdiction and may change over time as records are updated. Motor vehicle incidents not in a work zone, sole proprietors, Covid-19, drug related, suicide etc. are generally not included. Workplace violence is included. The numbers and information are for accident prevention purposes and trending and is not intended to be a statistical study or evaluation. For questions contact the Houston North OSHA Office, Jim Shelton, CAS, at

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