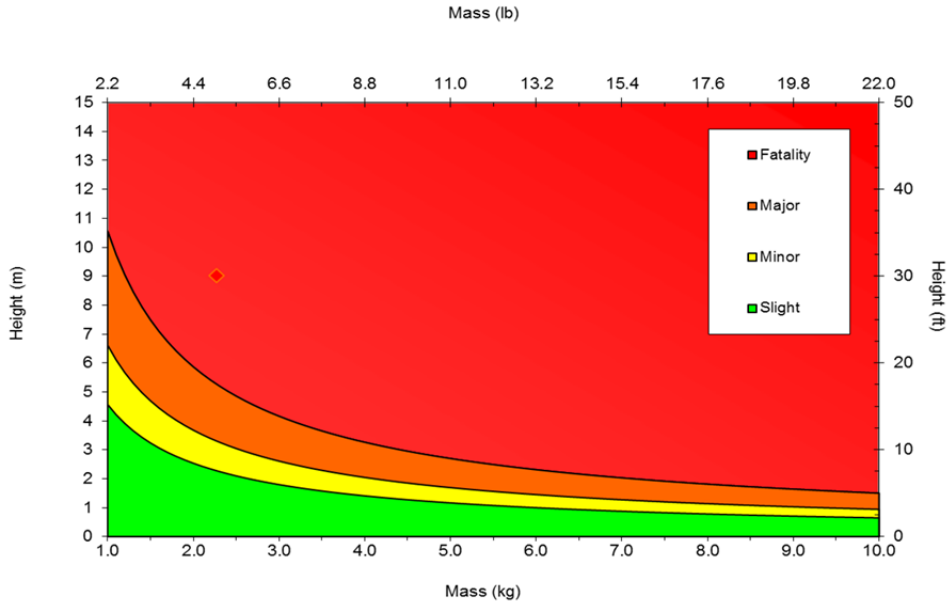




AWEA Safety Campaign - Dropped Objects Impact

Examples	Weight (lb)	300 ft ~ impact speed (fps/mpg)	Effective force (lbs)	Result
Hammer	3	147.6/101	2999	Fatality
Bolt	0.3	147.6/101	300	Moderate
Screw Driver	0.2	147.6/101	300	Moderate
16 oz Sports Drink	1	147.6/101	993	Fatality
Helmet	0.75	147.6/101	750	Severe
Adjustable wrench	2	147.6/101	2007	Fatality
Socket	0.1	147.6/101	221	Moderate
Car keys	0.2	147.6/101	300	Moderate
Cell phone	0.3	147.6/101	300	Moderate



**This chart is for illustrative purposes only. Please note that it only shows potential impact of objects dropped from up to 50 feet.*

	SLIGHT A First Aid Case. No or limited injury. Treatment may be limited to first aid.
	MINOR . A Recordable Incident. A Work-related injury that does not involve death, day(s) away from work, restricted work or job transfer, and where the employee receives medical treatment beyond first aid.
	MAJOR . A Lost Time Incident (LTI). Non-fatal traumatic injury that causes any loss of time from work beyond the day or shift it occurred. Also referred to as Day Away From Work Case (DAFWC).
	FATALITY . Death resulting from an injury or trauma.



Group activity: use the chart below and the drop calculator provided at www.awea.org/stopthedrop to determine the potential impact of dropping any of the objects listed below.

Useful notes:

- The use of standard Personal Protective Equipment (PPE) is required at all times.
- Typical hard hat may resist an 850 lb force from cracking the shell
- 1kG = 2.2 lb
- 1 fps = 0.3 mps
- This exercise will provide possible outcomes. It is not an accurate prediction.
- Always remember to secure your tools to stop the drop!

Common dropped objects	Weight (lb)	Result
Hammer		
Adjustable wrench		
Pliers		
Knife		
Screw driver		
Allen wrench		
Torque wrench		
Sockets and extensions		
Power tools		
PPE components - helmets, glasses, etc.		
A volt meter		
Parts and components - bolts, carbon brushes, grease tubes, etc.		
Empty water bottle		
Communication devices - phone, radio		
Tuna sandwich		
Slice of pizza		
Car keys		
HotWheel car		
Sunglasses		
Camera		
A bag of M&M's		
Sunscreen lotion		
Pen		
Bottle of Tabasco		
Chapstick		
Penny		