

Effects of a 1 MT nuclear blast						
distance	time	heat effects	radiation	wind	pressure	pressure & wind effects
4200 feet (100 feet deep) - crater -	1 second	10,000,000 C metal vaporized	6.800 r.+	800 mph	50 psi +	total destruction
1.4 miles	2 seconds	metal vaporizes	6,800 r.	670 mph	30 psi	massive concrete structures destroyed
1.8	5 seconds	metal vaporizes	2,000 r.	470 mph	20 psi	massive concrete structures damaged
2.0	10 seconds	metal vaporizes	21 r.	380 mph	15 psi	slight damage to buried shelters 6' + gross damage to most buildings
2.5	12 seconds	metal melts	1 r.	290 mph	10 psi	tall buildings destroyed - lung injuries skin bruises
3.1	15 seconds	metal melts	.0063 r.	225 mph	7 psi	most buildings 2 - 6 stories destroyed power lines, trees, telephone poles, brick chimneys knocked over
3.8	20 seconds	metal melts	none	160 mph	5 psi	most buildings over 2 stories destroyed eardrum damage
4.8	25 seconds	metal weakened	none	116 mph (hurricane)	3 psi	motor vehicles overturned box cars knocked over
5.9	30 seconds	rubber & plastic melt & ignite	none	70 mph	2 psi	brick house damaged or destroyed
8.3	40 seconds	wood chars & burns	none	62 mph	1 psi	wood buildings damaged flying debris
10.0	50 seconds	3 <sup>rd</sup> degree burns paper & fabric ignite	none	48 mph	none	broken windows, yard furniture blown around
15.0	80 seconds	2 <sup>nd</sup> degree burns	none	5 mph	none	none
20.0	95 seconds	1 <sup>st</sup> degree burns	none	none	none	none