

Mass				Density			
Electron Rest Mass	9.110	$\cdot 10^{-31}$	kg	Hydrogen (0°C, 1 atm)	0.09	$\cdot 10^0$	kg/m ³
Pion Rest Mass	2.5	$\cdot 10^{-28}$	kg	Helium (0°C, 1 atm)	0.18	$\cdot 10^0$	kg/m ³
Atomic Mass Unit (amu)	1.661	$\cdot 10^{-27}$	kg	Air, STP	1.225	$\cdot 10^0$	kg/m ³
Proton Rest Mass	1.673	$\cdot 10^{-27}$	kg	Nitrogen (0°C, 1 atm)	1.25	$\cdot 10^0$	kg/m ³
Neutron Rest Mass	1.675	$\cdot 10^{-27}$	kg	Air (0°C, 1 atm)	1.293	$\cdot 10^0$	kg/m ³
Hydrogen Atom	1.68	$\cdot 10^{-27}$	kg	Oxygen (0°C, 1 atm)	1.43	$\cdot 10^0$	kg/m ³
Iron Atom	95	$\cdot 10^{-27}$	kg	Liquid Sodium (98 C)	929	$\cdot 10^0$	kg/m ³
W Boson	140	$\cdot 10^{-27}$	kg	Balsa	0.20	$\cdot 10^3$	kg/m ³
Z Boson	170	$\cdot 10^{-27}$	kg	Pine (Softwood)	0.52	$\cdot 10^3$	kg/m ³
DNA Nucleotide	400	$\cdot 10^{-27}$	kg	Walnut (hardwood)	0.65	$\cdot 10^3$	kg/m ³
Typical protein molecule	1	$\cdot 10^{-22}$	kg	Ethyl Alcohol	0.79	$\cdot 10^3$	kg/m ³
<i>E. Coli</i> ribosome	5	$\cdot 10^{-21}$	kg	Paper	0.9	$\cdot 10^3$	kg/m ³
Smallest virus	9.5	$\cdot 10^{-21}$	kg	Ice	0.92	$\cdot 10^3$	kg/m ³
Human DNA Molecule	8	$\cdot 10^{-15}$	kg	Human body fat	0.95	$\cdot 10^3$	kg/m ³
Red blood cell	9	$\cdot 10^{-14}$	kg	Wax	0.96	$\cdot 10^3$	kg/m ³
Typical cell	7	$\cdot 10^{-13}$	kg	Water (4 °C)	1	$\cdot 10^3$	kg/m ³
Planck-Wheeler Mass ($\sqrt{\hbar c/G}$)	2.2	$\cdot 10^{-8}$	kg	Human Muscle	1.1	$\cdot 10^3$	kg/m ³
Mosquito	1	$\cdot 10^{-6}$	kg	Sun	1.41	$\cdot 10^3$	kg/m ³
Snowflake	3	$\cdot 10^{-6}$	kg	Human Bone	1.7	$\cdot 10^3$	kg/m ³
Rain drop	20	$\cdot 10^{-6}$	kg	Cement, Set	2.1	$\cdot 10^3$	kg/m ³
One Ounce	31.10	$\cdot 10^{-3}$	kg	Aluminum	2.7	$\cdot 10^3$	kg/m ³
Golf Ball	45.9	$\cdot 10^{-3}$	kg	Marble	2.7	$\cdot 10^3$	kg/m ³
Baseball	145	$\cdot 10^{-3}$	kg	Titanium	4.5	$\cdot 10^3$	kg/m ³
Goldfish	0.02	$\cdot 10^0$	kg	Earth	5.519	$\cdot 10^3$	kg/m ³
Hamster	0.1	$\cdot 10^0$	kg	Stainless Steel (18-8)	7.9	$\cdot 10^3$	kg/m ³
One Pound	0.454	$\cdot 10^0$	kg	Mercury (element)	13.6	$\cdot 10^3$	kg/m ³
Tabby Cat	4.5	$\cdot 10^0$	kg	Depleted Uranium	19.1	$\cdot 10^3$	kg/m ³
Spider Monkey	9	$\cdot 10^0$	kg	Gold	19.29	$\cdot 10^3$	kg/m ³
Brick	10	$\cdot 10^0$	kg	Moon	33.42	$\cdot 10^3$	kg/m ³
Average woman	58	$\cdot 10^0$	kg	Neutron Star	5	$\cdot 10^{17}$	kg/m ³
Average man	70	$\cdot 10^0$	kg				
African Elephant	1.5	$\cdot 10^3$	kg	Force			
Porsche 911 Turbo	1.5	$\cdot 10^3$	kg	Proton on Electron, H atom	8	$\cdot 10^{-8}$	N
Tyrannosaurus Rex	10	$\cdot 10^3$	kg	Air Friction on walking person	3	$\cdot 10^{-1}$	N
Blue whale	150	$\cdot 10^3$	kg	Forearm, isometric exercise	270	$\cdot 10^0$	N
747-400 Plane	380	$\cdot 10^3$	kg	Weight, Average Male	730	$\cdot 10^0$	N
US Corn Production	238	$\cdot 10^6$	kg	Automobile braking	10	$\cdot 10^3$	N
NYC Trash, per day	1.2	$\cdot 10^7$	kg	Nuclear Strong Force on proton	10	$\cdot 10^3$	N
HMS Queen Elizabeth	7.6	$\cdot 10^7$	kg	Baseball Bat - Baseball	36	$\cdot 10^3$	N
US Junk mail, per year	1.4	$\cdot 10^9$	kg	Thrust 747-400, 4 Jet engines	1008	$\cdot 10^3$	N
Ann. NOx production	2.1	$\cdot 10^9$	kg	Thrust, Space Shuttle main engs	29	$\cdot 10^6$	N
Ann. CO production	8.5	$\cdot 10^9$	kg	Gravity, Earth-Moon	2	$\cdot 10^{20}$	N
Comet	1	$\cdot 10^{13}$	kg	Gravity, Sun-Earth	3.5	$\cdot 10^{22}$	N
Mountain	3	$\cdot 10^{14}$	kg	Angular Momentum			
Earth Biomass	1.8	$\cdot 10^{15}$	kg	Orbital motion of electron	1.05	$\cdot 10^{-34}$	J s
Earth's Atmosphere	5.3	$\cdot 10^{18}$	kg	Bullet from rifle	2	$\cdot 10^{-3}$	J s
Typical Asteroid	3	$\cdot 10^{19}$	kg	Phonograph record (33 rpm)	6	$\cdot 10^{-3}$	J s
Earth's Oceans	1.4	$\cdot 10^{21}$	kg	Frisbee	1	$\cdot 10^{-1}$	J s
Moon	7.354	$\cdot 10^{22}$	kg	Toy gyroscope	1	$\cdot 10^{-1}$	J s
Mercury	3.302	$\cdot 10^{23}$	kg	Electric fan	1	$\cdot 10^0$	J s
Earth	5.976	$\cdot 10^{24}$	kg	Automobile wheel (55 mph)	1	$\cdot 10^2$	J s
Jupiter	1.9	$\cdot 10^{27}$	kg	Helicopter rotor (320 rpm)	5	$\cdot 10^4$	J s
Sun	1.989	$\cdot 10^{30}$	kg	Rotation of Earth	5.8	$\cdot 10^{33}$	J s
Black Hole Evol. Threshold Mass	4	$\cdot 10^{31}$	kg	Orbital motion of Earth	2.7	$\cdot 10^{40}$	J s
Globular Cluster	1	$\cdot 10^{36}$	kg	Orbital motion of all planets	3.2	$\cdot 10^{43}$	J s
Milky Way Center Black Hole	5	$\cdot 10^{36}$	kg	Dielectric Constant			
Mass of Milky Way	4	$\cdot 10^{41}$	kg	Dielectric constant of air	1.0005	$\cdot 10^0$	
Milky Way (visible and dark mass)	2.6	$\cdot 10^{42}$	kg	Dielectric constant of vacuum	1	$\cdot 10^0$	
Visible matter in the universe	8	$\cdot 10^{49}$	kg	Dielectric constant of water	8	$\cdot 10^1$	
Critical density universe	2	$\cdot 10^{52}$	kg	Energy			
Universe	1	$\cdot 10^{53}$	kg				
Energy				Power			
Room Temp	4	$\cdot 10^{-21}$	J	Power Cons., Total, World	12	$\cdot 10^{12}$	W
H Ionization Energy	2.2	$\cdot 10^{-18}$	J	Hurricane	2	$\cdot 10^{13}$	W
Fission of 1 U-235 nucleus	3.2	$\cdot 10^{-11}$	J	Total, Sunlight striking Earth	1.7	$\cdot 10^{17}$	W
KE, Falling rain drop	4	$\cdot 10^{-3}$	J	Radiated by Sun into space	3.7	$\cdot 10^{26}$	W
KE, Cosmic ray	50	$\cdot 10^0$	J	Pressure			
KE, Man Walking	60	$\cdot 10^0$	J				

One push up	300 · 10 ⁰	J	Best Laboratory Vacuum	1 · 10 ⁻¹³	Pa
KE, Man Running	4 · 10 ³	J	Atmospheric, 100 km	56 · 10 ⁻³	Pa
Typical flashlight battery	7 · 10 ³	J	Atmospheric, 50 km	99 · 10 ⁰	Pa
Metabolization of 1 kJ ATP	29 · 10 ³	J	Acoustic, 2m from Jet engine	2 · 10 ¹	Pa
KE, Rifle Bullet	40 · 10 ³	J	Foot of Water	2.989 · 10 ³	Pa
Metabolization of apple	460 · 10 ³	J	Inch of Mercury (1" Hg)	3.386 · 10 ³	Pa
KE, Large Locomotive	500 · 10 ³	J	Atmospheric, 20 km	5.6 · 10 ³	Pa
Metabolization of 1 kg Beer	1.8 · 10 ⁶	J	One psi (Pound-Force / Sq. Inch)	6.895 · 10 ³	Pa
Explosion of 1 kg TNT	4.6 · 10 ⁶	J	diastolic blood pressure	11 · 10 ³	Pa
Daily Food Intake, Adult Male	13 · 10 ⁶	J	systolic blood pressure	16 · 10 ³	Pa
Combustion of 1 kg Coal	29.3 · 10 ⁶	J	Atmospheric, 10 km	28 · 10 ³	Pa
Combustion of 1 kg Gasoline	48 · 10 ⁶	J	Atmospheric, 0 km (standard)	101.3 · 10 ³	Pa
Combustion of 1 gal gasoline	130 · 10 ⁶	J	Bulk Mod, Air, STP	142 · 10 ³	Pa
Lightning Flash	1 · 10 ⁹	J	Car tire	200 · 10 ³	Pa
Gravi. P.E. of 747 at 30,000 ft	20 · 10 ⁹	J	One ksi (1000 psi)	6.895 · 10 ⁶	Pa
Hiroshima size A bomb	60 · 10 ¹²	J	Compr Str, 1 Year Old Concrete	14 · 10 ⁶	Pa
Fission of 1 kg U235	82 · 10 ¹²	J	Compr Str, Granite	131 · 10 ⁶	Pa
Fusion of 1 kg Hydrogen	630 · 10 ¹²	J	Yield Str, Soft Aluminum (Al99.5)	55 · 10 ⁶	Pa
Earthquake, 7.0 (1979, CA)	2 · 10 ¹⁵	J	Yield Str, Cast Aluminum (AlMgSi)	180 · 10 ⁶	Pa
1 megaton nuclear weapon	4.2 · 10 ¹⁵	J	Yield Str, 18-8 Stnls Steel, Annealed	207 · 10 ⁶	Pa
Nuclear fuel in reactor	10 · 10 ¹⁵	J	Yield Str, Mild Steel (1018CR)	221 · 10 ⁶	Pa
1 kg mass, Energy Equivalent	89.87 · 10 ¹⁵	J	Yield Str, Wrought Al 6061-T6	262 · 10 ⁶	Pa
Krakatoa volcano	6 · 10 ¹⁸	J	Ult Str, Mild Steel (1018CR)	341 · 10 ⁶	Pa
Largest Earthquake, 9.5	1.23 · 10 ¹⁹	J	Yield Str, Titanium (Ti 99.7)	483 · 10 ⁶	Pa
Est. Energy stock of natural gas	1 · 10 ²²	J	Ult Str, 18-8 Stnls Steel, Annealed	517 · 10 ⁶	Pa
Est. Energy stock of petroleum	1 · 10 ²²	J	Bottom of ocean	6 · 10 ⁷	Pa
All fossil fuels on Earth	2 · 10 ²³	J	Bulk Mod, Water, STP	2.2 · 10 ⁹	Pa
Est. Energy stock of coal	2.5 · 10 ²³	J	To Form Diamond from Carbon	10 · 10 ⁹	Pa
Est. Energy stock of oil shale	2 · 10 ²⁴	J	Young's Mod, Aluminum 6061-T6	68 · 10 ⁹	Pa
Earth, Rot. KE about Axis	2.1 · 10 ²⁴	J	Young's Mod, 18-8 Stainless Steel	200 · 10 ⁹	Pa
Earth, Rot. KE about Sun	2.6 · 10 ³³	J	Center of Earth	4 · 10 ¹¹	Pa
Supernova Explosion	1 · 10 ⁴⁴	J	Highest in Laboratory	5 · 10 ¹¹	Pa
Nuclear fuel in Sun	1 · 10 ⁴⁵	J	Core of Neutron Star	1 · 10 ³⁸	Pa

Power			Electric Field		
Bumblebee in Flight	2 · 10 ⁻²	W	Typical radio wave	1 · 10 ⁻¹	N/C
Lightbulb	60 · 10 ⁰	W	To Ionize air	3 · 10 ⁶	N/C
Heat output of man (typ.)	100 · 10 ⁰	W	Field at 1s orbital in H	6 · 10 ¹¹	N/C
Food Intake - Avg Woman	106 · 10 ⁰	W	Field, Surface of U nucleus	2 · 10 ²¹	N/C
Food Intake - Avg Man	135 · 10 ⁰	W			
Human Athlete	200 · 10 ⁰	W	Magnetic Field		
Toaster	1 · 10 ³	W	Mag Field, Typ. AM radio wave	1 · 10 ⁻⁹	T
Car Battery	4.5 · 10 ³	W	Mag Field, Earth (average)	5 · 10 ⁻⁵	T
Large radio transmitter	100 · 10 ³	W	60 Hz Field, Average Exposure	90 · 10 ⁻⁹	T
Car Engine	150 · 10 ³	W	Mag Field, Typ. ceramic magnet	2 · 10 ⁻²	T
Porsche 911 Turbo (2001)	309 · 10 ³	W	Mag Field, Large electromagnet	2 · 10 ⁰	T
Large tugboat	1 · 10 ⁶	W	Mag Field, Largest Laboratory	1 · 10 ³	T
747 jet engine	210 · 10 ⁶	W	Mag Field, Atomic Nucleus	1 · 10 ¹²	T
Large Power Plant	1 · 10 ⁹	W			
Power Cons., U-235, world	0.2 · 10 ¹²	W	Resistivity		
Power Cons., Coal, USA	0.5 · 10 ¹²	W	Soft Aluminum (Al99.5)	28.6 · 10 ⁻⁹	Ω·m
Power Cons., Petroleum, USA	1.3 · 10 ¹²	W	Copper	17.5 · 10 ⁻⁹	Ω·m
Power Cons., Coal, World	2.9 · 10 ¹²	W	Silver	15.0 · 10 ⁻⁹	Ω·m
Power Cons., Total, USA	3 · 10 ¹²	W	Mica, Polystyrene, Teflon	1 · 10 ¹⁴	Ω·m
Power Cons., Petroleum, World	4.3 · 10 ¹²	W	Glass	1 · 10 ¹⁰	Ω·m

Time				Time			
Planck-Wheeler Time		$5 \cdot 10^{-44}$	s	Earliest Reptiles	340 MYr	$1.1 \cdot 10^{16}$	s
Strong Interaction Res lifetime		$4 \cdot 10^{-24}$	s	Plants Invade land	420 MYr	$1.3 \cdot 10^{16}$	s
Electron Light Crossing Time		$8 \cdot 10^{-21}$	s	Oldest Vertebrate Fossil	469 MYr	$1.5 \cdot 10^{16}$	s
Rough time, atom move 1 Å		$100 \cdot 10^{-15}$	s	Camerian explosion	545 MYr	$1.7 \cdot 10^{16}$	s
Period, Atomic Vibration in Solid		$100 \cdot 10^{-15}$	s	Start, Paleozoic era (til Mesz.)	571 MYr	$1.8 \cdot 10^{16}$	s
Chem reactn time (ICN dissasoc)		$200 \cdot 10^{-15}$	s	Verterbrates, Invertbts diverge	600 MYr	$1.9 \cdot 10^{16}$	s
Half Life of positive pi meson		$2.67 \cdot 10^{-8}$	s	Eukaryotes begin to dominate	1.4 BYr	$4.4 \cdot 10^{16}$	s
Period, AM radio wave		$1 \cdot 10^{-5}$	s	Atmos. O2 at present level	1.5 BYr	$4.7 \cdot 10^{16}$	s
Period, middle C		$3.8 \cdot 10^{-3}$	s	Galaxy to cross a cluster	1.9 BYr	$6 \cdot 10^{16}$	s
Duration, typical eye saccade		$80 \cdot 10^{-3}$	s	Age of Most ancient fossils	2.7 BYr	$8.4 \cdot 10^{16}$	s
Duration of the blink of an eye		$150 \cdot 10^{-3}$	s	Age of Most ancient rocks	3.5 BYr	$1.1 \cdot 10^{17}$	s
Time between saccades		$400 \cdot 10^{-3}$	s	Earliest Photosynthetic Activity	3.5 BYr	$1.1 \cdot 10^{17}$	s
Period, Avg heartbeat		$0.9 \cdot 10^0$	s	Earth formed	4.8 BYr	$1.5 \cdot 10^{17}$	s
Period, Avg Walking Pace		$1 \cdot 10^0$	s	U ²³⁸ Half-life	4.8 BYr	$1.5 \cdot 10^{17}$	s
Light Travel Time, Moon		$1.3 \cdot 10^0$	s	Main Seq. Lifetime, 1 Solar Mass	9.5 BYr	$3 \cdot 10^{17}$	s
Period, Avg Breathing Rhythm		$5 \cdot 10^0$	s	Age of Universe	10.5 BYr	$3.3 \cdot 10^{17}$	s
Time between blinks		$5 \cdot 10^0$	s	Rough age of the Milky Way	12.0 BYr	$3.8 \cdot 10^{17}$	s
Minute		$60 \cdot 10^0$	s	Hubble age of the universe	13.0 BYr	$4.1 \cdot 10^{17}$	s
Travel time for light from Sun		$500 \cdot 10^0$	s	Lower limit on proton lifetime		$1 \cdot 10^{39}$	s
Hour		$3600 \cdot 10^0$	s				
Day		$8.64 \cdot 10^4$	s				
Week	7 d	$6.05 \cdot 10^5$	s	Temperature			
Fortnight	14 d	$1.21 \cdot 10^6$	s	Lowest achieved in laboratory		$5 \cdot 10^{-4}$	K
Period of Revolution of Moon	27.32 d	$2.36 \cdot 10^6$	s	Outer space		$2.726 \cdot 10^0$	K
Month (Period of Moon Phases)	29.53 d	$2.55 \cdot 10^6$	s	Boiling pt, Helium	-269 °C	4.2	K
Tropical Year (365.2422 d)	365.2 d	$3.16 \cdot 10^7$	s	Melting pt, Nitrogen	-210 °C	63	K
Light Travel Time, Nearest Star	4.4 yr	$1.4 \cdot 10^8$	s	Boiling pt, Nitrogen	-196 °C	77	K
Human lifespan (75 years)	75 yr	$2.37 \cdot 10^9$	s	Moon Nighttime	-170 °C	103	K
Period of Halley's Comet	76.1 yr	$2.4 \cdot 10^9$	s	Blackbody Temp, Jupiter	-143 °C	130	K
century	100 yr	$3.16 \cdot 10^9$	s	Blackbody Temp, Earth	-23 °C	250	K
Declaration of Independence	225 yr	$7.1 \cdot 10^9$	s	Record Lo Outside Temp	-89 °C	184	K
Newton's Princ. Mathematica	314 yr	$9.9 \cdot 10^9$	s	Freezing pt, Water	0 °C	273.15	K
Millenium	1000 yr	$3.16 \cdot 10^{10}$	s	Surface of Earth - Avg	14 °C	287	K
Goldfish domesticated	1000 yr	$3.3 \cdot 10^{10}$	s	Room Temperature	22 °C	295	K
Fall of Rome (476 AD)	1525 yr	$4.8 \cdot 10^{10}$	s	Human Body Temp	37 °C	310	K
1 AD	2000 yr	$6.3 \cdot 10^{10}$	s	Record Hi Outside Temp	57 °C	330	K
Pythagoras (ca. 500 BC)	2500 yr	$7.9 \cdot 10^{10}$	s	Boiling pt, Water	100 °C	373.15	K
Chicken domesticated	4.0 kYr	$1.3 \cdot 10^{11}$	s	Moon Daytime	134 °C	407	K
Cats and camels domesticated	5.0 kYr	$1.6 \cdot 10^{11}$	s	Candle Flame	1527 °C	1800	K
Oldest Written records (Sumer)	5.1 kYr	$1.6 \cdot 10^{11}$	s	Acetylene torch	2627 °C	2900	K
Horse domesticated	6.0 kYr	$1.9 \cdot 10^{11}$	s	Melting Pt of tungsten	3407 °C	3680	K
C ¹⁴ Half-Life	6.0 kYr	$1.9 \cdot 10^{11}$	s	Center of Earth	3727 °C	4000	K
cattle domesticated	8.0 kYr	$2.5 \cdot 10^{11}$	s	Surface of Sun	4227 °C	4500	K
Holocene epoch begins	10.0 kYr	$3.2 \cdot 10^{11}$	s	Blackbody Temp, Sun	5477 °C	5750	K
Dog domesticated	12.0 kYr	$3.8 \cdot 10^{11}$	s	Boiling pt of Tungsten	5657 °C	5930	K
Last Ice Age	18 kYr	$5.7 \cdot 10^{11}$	s	Center of Sun		$1.5 \cdot 10^7$	K
Earliest Homo sapiens sapiens	90.0 kYr	$2.8 \cdot 10^{12}$	s	Highest Achieved in laboratory		$6 \cdot 10^7$	K
Rough Species evolution time	1 MYr	$3 \cdot 10^{13}$	s	Center of H bomb		$1 \cdot 10^8$	K
Homo erectus lives	2 MYr	$5.1 \cdot 10^{13}$	s	Hottest star		$1 \cdot 10^9$	K
Homo habilis (Earliest spcs Homo)	2 MYr	$5.8 \cdot 10^{13}$	s				
Age of oldest stone tool	3 MYr	$8 \cdot 10^{13}$	s	Thermal Conductivity			
Lucy (Australopithecus afarensis)	3 MYr	$1.0 \cdot 10^{14}$	s	Thermal cond. of Styrofoam	$2 \cdot 10^{-3}$		W/m·K
Main Seq. Lifetm, 30 Sol mass	5 MYr	$1.6 \cdot 10^{14}$	s	Thermal cond. of Down	$4.6 \cdot 10^{-3}$		W/m·K
Rough Lyapunov tm, Solar System	10 MYr	$3 \cdot 10^{14}$	s	Thermal cond. of Porcelain	$0.25 \cdot 10^0$		W/m·K
Earliest Primates	50 MYr	$1.6 \cdot 10^{15}$	s	Thermal cond. of Water, 20° C	$0.60 \cdot 10^0$		W/m·K
Earliest Grasses	54 MYr	$1.7 \cdot 10^{15}$	s	Thermal cond. of Ice	$2.33 \cdot 10^0$		W/m·K
Earliest Rodents	57 MYr	$1.8 \cdot 10^{15}$	s	Thermal cond. of Aluminum	$204 \cdot 10^0$		W/m·K
Main Seq. Lifetime, 5 sol mass	60 MYr	$1.9 \cdot 10^{15}$	s	Thermal cond. of Silver	$407 \cdot 10^0$		W/m·K
LA to pass SF by continental drift	63 MYr	$2 \cdot 10^{15}$	s				
Mass Extinction; Go Mammals!	65 MYr	$2.1 \cdot 10^{15}$	s	Sound Intensity			
Start, Cenozoic era (til now)	70 MYr	$2.2 \cdot 10^{15}$	s	dB, Threshold of hearing		4	dB
Tm btwn coll w/ Asteroids > 4km	95 MYr	$3 \cdot 10^{15}$	s	dB, Normal breathing		10	dB
Flowering Plants Originate	125 MYr	$3.9 \cdot 10^{15}$	s	dB, Whisper		20	dB
Archaeopteryx, (early bird)	150 MYr	$4.7 \cdot 10^{15}$	s	dB, Normal conversation		60	dB
Apatosaurus (AKA Brontosaurus)	163 MYr	$5.1 \cdot 10^{15}$	s	dB, Heavy street traffic		70	dB
Start, Mesozoic era (til Cen.)	225 MYr	$7.1 \cdot 10^{15}$	s	dB, NYC Subway Train		100	dB
Orbit time, Sun - Galactic Center	231 MYr	$7.3 \cdot 10^{15}$	s	dB, Threshold of pain		120	dB
Permian extinction	250 MYr	$7.9 \cdot 10^{15}$	s	dB, Jet engine at 30 m		130	dB
				dB, rupture of ear drum		160	dB

