

AMERICAN SURVIVOR

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IN THIS ISSUE: Human Extinction, Escape Devices, Book Reviews, What's Going On With My Books, North Central Indiana Reorganizing Notice.

HUMAN EXTINCTION!

By James C. Jones, EMT/CHCM

"Extinction is the rule; survival is the exception"

Carl Sagan



True and complete human extinction (if it happens) will most likely result, not from war epidemic, famine, resource depletion or natural disasters, but from a combination of all of these caused by a root cause that we fail to recognize or acknowledge. Even if we do face this issue it is unlikely we can fix it before it fixes us. Most of today's and tomorrow's survival challenges stem from this one causal factor. Understand the root cause is important to recognition of the effects it is having now and will have in the future.

Understanding Root Cause

Since we are going to talk about the root cause of all other survival challenges and disasters, we need to first understand the

root cause process. As an industrial safety manager for a large corporation I was charged with investigating and determining the causation for all kinds of accidents and injuries. Most basic safety programs focused exclusively on incidents that actually resulted in damage and/or injury. Causation was limited to the primary cause such as an employee sticking a hand into a machine or a flammable material that was stored too near to near an ignition source. Corrective action might involve disciplinary action, training, installation of a guard, etc. Advanced safety programs that I initiated required investigation of all "near miss" incidents before they caused injury and thorough "root-cause analysis". The main

technique of such analysis was the “5-whys”. We might start with “Why did Charlie get injured?” The obvious answer would be, “because he put his hand into a pinch point”. But then we would ask “why did he do that?” Maybe because he was in a hurry. Then “why was he in a hurry?” We would keep asking why until we got to a deeper root cause. Once the root-cause was addressed we had eliminated a whole class of hazards and that type of accident never happened again. Through this process we achieved record breaking and OSHA award winning safety records. The down-side of root cause analysis is that it takes you places that you may not want to go. The ultimate blame could land on upper management, the union, government regulations or hiring practices.

You will notice that politicians never, ever touch the subject of root cause. Even a couple of “why’s” deep would bring them to politically unacceptable and unpopular answers involving powerful organization, cultures, money, laws, and governmental mismanagement. The corrective actions would be unpopular so they just tell people what they want to hear and talk about less controversial causes and blame others while things get worse and worse. Politicians also know that some root causes are not solvable, but saying that will not get them reelected. Their actions are design to misdirect the public and buy time. Truth is never an option for politicians.

In my experience, failure to recognize and deal with a root cause always resulted in continuation of the problems and eventual disaster. As I have written about the primary causes of various disasters and ruinous trends and how to survive them, I realize that they are all secondary

causes or symptoms of a much larger root cause. The root causation of most of our survival issues is overpopulation. There, I said it. Even when it is not the primary casual factor, it magnifies the effects of disasters and makes them harder to prevent or recover from.

Overpopulation the Root Cause of Disasters

Over population is not the root cause of all disasters, but it is the cause or a major contributing factor in most large scale current, developing and impending catastrophic disasters such as epidemics, revolutions, wars, famines, economic declines and shortages..

Population growth has been frequently addressed in movies such as Soylent Green (1973), The Matrix (1999), and most recently in Dan Brown’s Inferno. I actually remember reading about the concern of population growth in a publication for children titled “My Weekly Reader” back in grammar school in the early 1950s. I am not sure why I remember that, but it concerned me then. Yea, I was sort of a serious kid.

The human population of this planet remained in the hundreds of millions for hundreds of thousands of years. Even the evolution of agriculture and civilization had only a slight effect on population growth. The population started a precipitous clime in the late 1700s, reaching one-billion in the early 1800s*. This number doubled by the 1920 and doubled again by the 1970s and will reach eight-billion very soon. It will reach close to ten-billion in the early 2050s. A quarter of a million people are born every day. Our younger readers will see the population reach thirty-billion in the next century. Most scientific estimates of how many humans a planet this size

can comfortably support range between four and five billion. Oh, oh, we are way past that. I have also studied what happened in isolated (island bound) civilizations that over populated. First they used up every scrap of edible vegetation and animals, and burned the last tree for heat. Then they turned on those who still had food and fuel. And finally they turned on each-other. Another study kept adding rats to a limited space. They were adequately fed and watered, but eventually started killing each other for room. The human population self-regulated at less than one-billion because all life is dependent on available energy. Civilization developed because it used renewable energy from burning wood, harnessed animals, wind, water and organized (voluntary or involuntary) human muscles. That all changed when humanity started using up the accumulated energy (coal, oil, gas) from millions of years of biological activity.

It is important to realize that this tremendous surge in population coincides with the discovery of fossil fuels starting with coal (to steam) in the late 1700s and progressing to oil and natural gas in the late 19th and early 20th century. This facilitated the massive increase in agricultural and industrial capacity necessary to sustain larger populations. It also facilitated the use of petroleum based insecticides, fertilizers, medications and chemicals upon which modern civilization is totally dependent. The remaining supply of all fossil fuels are limited and already more than half depleted, while the usage doubles and redoubles with the population and standards of living. **At some point the rising population and the declining supply of energy needed to feed, transport, warm and sustain that**

population will cross going in opposite directions. This may have already happened or will happen before the end of this century. There is just no possibility that there will be enough renewable (solar, wind, bio) energy to support a population of over one-or two billion, much less twenty or thirty billion. That's a mathematical reality that no politician will talk about. Yes, disaster, multiple disasters, are inevitable and starting already. Fossil fuels were the "honey-trap" that lead us to multiply far beyond a sustainable level. Even if the supply of fuel was unlimited we would decimate the planet and choke on our own waste. As a child I lived in the 95th street area of the Southside of Chicago. There were still a few farms there and we could fish in the ponds and see turtles, frogs and snakes in the wooded areas. The area is nothing but expressways, warehouses, landfills and public housing today. I must go out well past the 200's to find the fast dwindling woods and farms today.

The issues that we preppers and survivalists address as individual threats are actually symptoms of this common root cause. Let's look at some of the survival challenges, disasters and catastrophic trends as they relate to population growth

Economic Collapse

Economic instability and collapse is certainly a major survival concern. Those of us over sixty have some concerns and need to hold on to our reserves. Those who are between forty and sixty-years-old are in for a rough ride as the world experiences increasingly traumatic political, economic and environmental calamities. The ups will be lower and the downs will go lower on the economic roller coaster. Those who survive economically

and physically will struggle in an entirely different civilization. Anyone younger than 40 must plan on surviving very dangerous times and forget about that easy retirement idea.

Economists and political leaders are pretty smart folks. They know that (1) the population size is unsustainable (2) the supplies of critical fuels and resources are ultimately limited and will be exhausted by the end of the century and (3) the entire economy of the past two centuries has been based on continuous growth of demand (e.g. people) and supply (e.g. fossil fuel, products, and revenue) both of which are bound to plummet dramatically at some point. They certainly anticipate the wars, revolutions, riots and chaos that the population problem must ultimately generate. They don't talk about it, but it much affects their decisions. Riding an economic train that they know is headed for a cliff make them nervous. No one thinks the future is bright. No one can say "sure this investment will pay off twenty or thirty years from now". Financial survival rather than future prosperity is the priority.

Climate Change

We spend a lot of time on how to survive various natural disasters. There has been a dramatic increase in the frequency of and damage from hurricanes, tornadoes, floods, storms, and wildfires. Many of the world's aquifers are dry or going to dry up soon, decreasing the food supply. Legal fights and even some violence has been growing over access to fresh water. These events are often attributed to what is referred to as "climate change". The debate about what caused climate change is like the crew of the Titanic arguing about whose fault it was for hitting the iceberg. It's irrelevant at this point. We wouldn't be burning all that fuel and raising all those

cattle and leveling all that forest if there was not so great a demand. Floods, storms, droughts, water shortages certainly wouldn't kill near as many if so many were not in harm's way and vulnerable to these events. Each disaster requires us to use more and more resources (fuel, supplies, and economy) to recover those weakening the economy further and doing more environmental damage. The climate is going to get more hostile and life is going to be harder to sustain for the next few centuries. One way or the other we are going to use up all the resources and a lot of people (as in hundreds of millions) are going to die.

Political Chaos

Societies collapse from the outside in. That is to say that the poorest and most desperate start to starve and die first. They fight among themselves and then overrun adjoining more fortunate peoples. This then uses up their resources and overburdens their civilization. The process repeats itself inwards until event the least populated and most prosperous societies are overrun and collapse. If this sounds like what you saw on the news last night you are right. It's coming your way. Centuries ago these things eventually ran out into unsettled lands and unused resources, but there is no place left to go and no untapped resources left here. History tells us that desperate people are prone to fall for demigods and tyrants and will accept all kinds of draconian laws and brutality. Expect to see individual liberty and self-reliance assaulted and oppressed throughout the world.

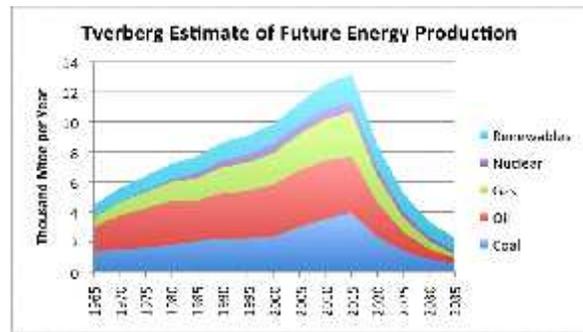
Impending Epidemics

The horrible reality is that epidemics, wars and famine are the most likely way that the population will be reduced. The

population density, migration and travel have set the stage for a world-wide epidemic that could kill millions or even billions. The source could be a deliberate act, a laboratory accident or simply a natural mutation of an existing pathogen. The CDC (Center for Disease Control) and the WHO (World Health Organization) agree that it is not a matter of if, but when this happens. When this occurs it will crash the already fragile economy, cause the infrastructure (police, fire, medical, sanitation, food delivery, electrical power and water pumping) in many cities to shut down for lack of personnel. Civil disorder and outright revolution may follow. The reduced population might or might not be able to recover civilization.

Rapidly Dwindle Resources

The massive increase in population and the pursuit of higher standards of living will continue to deplete the limited resources of the planet until they are gone. Our supplies of petroleum and natural gas passed the half-empty mark years ago. In a few more decades it will take more energy to reach and pump out the oil and gas than we get from the ground. Shell Oil Company recently abandoned drilling off of the Alaska coast because it cost more to get it than it was worth. China is courting war in order to grab oil in disputed waters. There are legal battles in progress over water sources and mineral rights. Some rare earth minerals are critical to modern electronics and are being hoarded by unfriendly nations. Crop lands disappear at least one-percent each year even as rain forests are burned in South America.



Terrorism

Modern terrorism and religious extremism is a manifestation of massive fear and desperation generated by the other symptoms (poverty, crowding, and hopelessness) of over population. Demagogues offer false hope and direct hatred and blame for the situation towards their neighbors or toward other races or religion. Desperate people are prone to accept simplistic answers and follow anyone who claims to have the way to salvation. Please do not think that Americans are too smart or too educated to fall for such leaders when times get desperate. Only the most prepared and self-reliant will be safe from such temptations.

Conclusions

The idea that a planet can support an infinite number humans is absurd. The idea that a constantly growing population can keep doubling its consumption of the already limited resource (oil, gas, minerals) and not exhaust the supply is the epitome of denial.

There is not enough potential renewable energy to support even the existing population at a comfortable standard of living. There certainly is no way renewable energy can sustain double and triple the existing population at anything above an impoverished and desperate existence.

There is no question that the human population of this planet must be reduced by billions within this century. The only question is how and when that will happen. **The best we can hope for is that a combination of limited epidemics, limited wars and social upheavals will bring the population down to a sustainable level without destroying civilization and the planets capacity to sustained life.** We could hope that a sustainable, civilized and free society would emerge from these calamitous times. The other possibility is that the consumption of resources and the resulting struggles for the last bits of food, oil, land, and water leaves nothing to recover with. Metaphorically speaking: your children's and grandchildren's world will either tumble down a long flight of stairs and be badly injured or fall off a cliff and die.

I will not speak of this again. Let's return to coping with the symptoms of the root cause that are manageable disasters and hope for the best. But remember that the root cause will be addressed eventually in some terrible way.

NOTE: *This year the scientific "Over Shot Day" occurred in August. This is the day on which humanity has used up one-year' worth of renewable resources such as clean water, fuel, food supplies and vegetation. So it takes the planet twelve months to regenerate what we use up in eight. In other words we burn through four-month' worth of reserves each year. Do the math. In the long-term, all our other "survival" efforts are just rearranging the deck chairs on the Titanic to buy time.*

A few more comments on the future in the next issue.

**ATTENTION NORTH CENTRAL
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PROVIDE YOU NAME, E-MAIL AND
PHONE NUMBER**

Escape Devices

By James C. Jones, EMT/CHCM

While hostage taking is a rare event, home invasions, terrorist/hostage situations and human trafficking are becoming more frequent. Outside of the United States kidnapping and human trafficking is at near epidemic levels. In response, various law enforcement and intelligence agencies have developed concealable devices for aiding escape.

The most common methods for securing a hostage are duct tape, wire-ties/flex-cuffs, rope, and handcuffs. While there are some techniques for freeing oneself from each of these methods, they are not always practical or reliable. Having a tool hidden on your person provides a much better chance of escape and thus survival. Tape and rope must be cut with a blade. Tough plastic ties requires a sawblade. Handcuffs require access to a key, pick or shim device. There are a number of products on the market that are specifically designed to evade detection and facilitate escape. Several of these escape devices are pictured and described herein.



- The small, 2 inch long Micro Escape Tool™ on the left can be hidden almost anywhere. It can even be combed into thick hair for concealment. It has a saw blade for tape, rope and plastic cuffs and can be used to ship handcuffs. \$5.00 from 5-Star Gear, www.fiveStarGear.com
- The contents of the Escape Stick™ is (top center) contained in a very small plastic tube and include a rod-saw that can cut through metal, plastic, wood and fiber, and has a handcuff key on the end. The toothed blade can be used to cut through rope, tape and plastic and can also serve to shim open handcuffs. Both sharp items are enclosed in a rubber sheath for protection. There is a video link for the owner to learn how to use these. \$25.00 from 5-Star Gear, www.fiveStarGear.com
- Hostage Escape Card™ (top right) that includes a handcuff shim, saw, and lock pic tool. Although it fits into a wallet, that's the first thing they take, so it is best concealed elsewhere. Priced at \$12.95 from www.ReadyMan.com
- While not an escape tool, the titanium pen looks like a cheap and harmless

plastic pen, but is strong enough to be used as a weapon and the cap has a handcuff key on the clip. You can also purchase the cap separately and use it on ordinary pens. \$45.00 from 5-Star Gear, www.fiveStarGear.com. They also have a handcuff keys disguised as a zipper-pull or as a shoe-lace cap.

- While a bit less concealable, the 5-in-1 knife/saw combo (bottom) is only 2 ½ inches long with a very sharp knife and a saw blade. Perfect for the small survival kit, pocket or key chain. \$5.00 from 5-Star Gear, www.fiveStarGear.com

As with any tool, some practice and forethought is required for them to be effective when you need them. The suppliers offer instructions and videos. Consider the scenarios where you might need these devices. Where should you carry them so that (1) they will not be found and taken, and (2) where you will be able to access them while you are tied with your arms in front of you or behind your back? Practice using them to cut tape, rope, and plastic cuff materials.



The tiny size and low cost of this micro-escape stick make it practical to have several stashed in clothing, caps, shoes, etc.

Handcuff Escape Training Tool

Handcuffs are available to anyone and therefore may be used by kidnappers, home invaders and terrorists to secure victims. These devices are more effective than rope, or duct tape. Unless the victim has a key, the mechanism must be picked or shimmed open. Fortunately, the locking system for handcuffs is extremely simple. Once understood you can use escape tools or even improvise devices to release the cuffs. ReadyMan™ offers a clear acrylic training cuff for \$17.95 that allows the trainee to practice various methods of escape. They also have a training video on their website. Go to www.ReadyMan.com



Covert Cutter Non-Metallic Knife

Any survivalist worth his or her salt feels naked without some sort of blade. While one may prefer to have a Swiss Army Knife, Multi-Tool, or lock-bladed tactical knife, that's not always possible or legal. The Covert Cutter, non-metallic knife gives you a fairly effective survival, escape and defense blade that will not set off metal detectors or wands. It has a clip for attaching to any covert location. Be aware that it probably will be found in a thorough pat-down search or x-ray, so consider this when you chose carry it. \$12.00 from 5-Star Gear, www.fiveStarGear.com.



Fifty-Cent Covert Blade

The CIA must have come up with this. You may be screened, x-rayed, wanded and searched for potential escape devices and knives, but no-one pays any attention to pocket change. The ultimate, covert blade is hidden in plain sight, in a completely authentic fifty-cent piece. This device can be hidden with normal coins, but the sharp Japanese steel blade is easily accessible. While the blade is small, it is sharp enough to cut through cordage, plastic ties, duct tape, and other materials. You do have to be careful not to actually spend it since this little item cost a hefty \$40.00, but if you are truly into covert operations or survival it may be worth the investment. From 5-Star Gear, www.fiveStarGear.com.



The authentic fifty-cent coin/blade with other coins



Pulling apart the coin exposes the sharp semicircular blade. It can be easily reinserted after use.

Conclusion.

An evaluation of your personal threat potentials and “what if” possibilities should determine whether you are likely to need any of these escape-aid devices. Application of the “you never know” rule and the “ready for anything” imperative may justify investing in one or more of these items. Future trends may indicate an increasing frequency of hostage-taking and other scenarios where having the proverbial “ace up your sleeve” could make the difference between escape and fatality.



What’s Going On With My Books? An update on books from James C. Jones (our editor)

As many of you know, I have had two books in publication with Paladin Press since 2015. Unfortunately, the owner of Paladin passed-away in 2016 and his wife elected to close the business. This left me and a lot of other survival and preparedness authors without publishers. Since Paladin closed rather than sold the business the copyrights reverted back to me. I contacted another publishing company and they immediately bought my two books to republish. In addition they advanced me on a third book that I was just *thinking* about at that stage. The status of the three books is as follows.

Beyond Survival will be republished as “Advanced Survival” in early October 2018 with a new cover and only a few minor changes. The publisher changed the title although I feel that the original title was more descriptive. It’s probably going to sell for about \$20.00. I wanted to provide usable and practical methods of replacing each life-critical service that is provided by society and the grid under normal circumstances. There are chapters on what to do when the water stops flowing, what to do when the grocery store is gone, what to do when the fire department isn’t responding, etc. I illustrated each chapter and provided some background in how these needs were addressed a few generations ago. I also supplied an imperative “Storm Warning” chapter to validate the necessity of preparedness and self-reliance.

The Live Free Book of Total Survival will be republished as “Total Survival” in January 2019 with a new cover probably

for \$20.00 or \$25.00. This book is more emergency or disaster related. I cover ten ways to do survival related tasks such as "Ten Ways to Start and Maintain a Fire", "Ten Critical First Aid Skills", "Ten Self-Defense Techniques", "Ten Ways to Acquire and Preserve Food", etc. The book is fully illustrated and should give the reader a lot of usable skills and techniques. I cover urban, outdoors and general disaster issues based on using my "Ten Principles of Survival". **Both of the original books are still available from Amazon and Borders.**

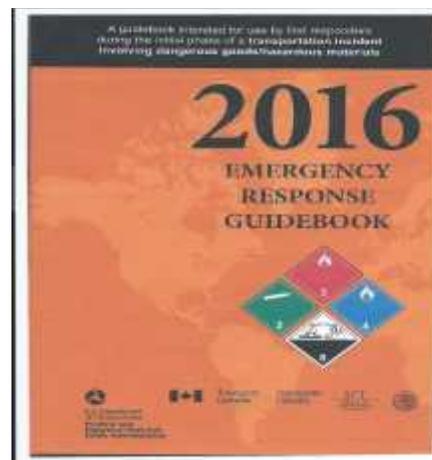
150 Survival Secrets should be out on or about February 2019. My original title was "150 Questions for a Survivalist" but the publishers elected to change the title, but the format is still question and answer as in "How can I survive an earthquake?", or "What can I do to survive a civil disorder?" One-hundred and fifty subjects is a lot to cover. I touch on a lot of controversial topics. Some items are covered in a paragraph or two while others may run to ten or more pages with illustrations. While I covered the traditional outdoors, self-reliance and disaster survival subjects, I addressed ethical and philosophical issues as well. There are some detailed sections on the organizational aspects of preparedness groups and even some paramilitary information. This is probably the closest thing to a true survivalist manifesto or manual ever written. In fact, I was a bit surprised that it is getting published. Being that this is a new book from the publishers, they are planning a promotional campaign. I have no idea about the price on this book yet. I do know that I am going to have a lot of work in November-December finalizing the formats and proofs and then again in early 2019 as it is published.

The new publisher is Skyhorse Publishing of NY, NY. A much bigger publisher than Paladin. They publish a full line of survival related books. Go to www.skyhorsepublishing.com for more information

Book Reviews

The 2016 Emergency Response Guidebook

From the US Department of Transportation



This book is seldom known to preppers and survivalists as it is specifically intended for use by professional emergency responders. As a former industrial safety manager, hazardous materials technician and current EMT and emergency management volunteer. I am thoroughly familiar with its uses. The volume is carried on every fire truck, ambulance and emergency response vehicle in the US, Canada and Mexico.

The guidebook was created help emergency responders quickly identify hazardous materials through the chemical name, hazard placards or the UN number on the outside of containers, tanks, trucks and rail cars before initiating action or risking exposure. There is a simple flow

chart for using the book. Starting with identification of the visible placard/label shape and color to identify the class of material (e.g. corrosive, explosive, flammable, etc.) then to finding the specific chemical by name (blue pages) or UN number (yellow pages) you are directed to the appropriate guide (orange pages). Once you find the proper guide page you have information on fire suppression, health hazards, protective clothing, evacuation distances, spill control and first aid needs. The newer editions include information on procedures and evacuation distances for terrorist bombs and radioactive materials. There are tables to determine the standoff, shelter in place and evacuation ranges for various explosive devices.

need this book to identify potential hazardous emissions from accidental releases, spills, and fires so that you can plan your reaction and have the necessary equipment. If you already work with or near facilities that use or transport hazardous chemicals you should (required by law) already have access to and training with this book. It is also important to keep in mind that many “hazardous” chemicals are actually chemical warfare agents and could be used by terrorist in any location and chemical facilities and transports are prime terrorist targets.

Emergency Response Guidebook, 392 pages, 7 x 5 “, \$15.00 from JJ Keller. www.jjkeller.com

Dare To Prepare!

By Holly Drennan Deyo

One of the most thorough and well researched preparedness books on the market, this massive 624 page 11 x 8 ½ volume contains information on virtually every aspect of emergency preparedness. There are tables of comparative information of various survival products such as water filtration devices and gas masks, data tables on fuel storage requirements, generator needs, and food storage needs. Clear illustrations and illustrative photographs are combined with clearly written instructions on shelter making, water gathering and many other essential survival subjects throughout. The combination of basic data, detailed information, and usable instruction on a broad range of survival and preparedness need make Dare to Prepare a “must have” for the serious survival library.

Dare to Prepare, 624 page 11 x 8 ½, paperback, \$39.49 from Deyo Enterprises, <http://daretoprepare.com>

Improvised Explosive Device (IED) SAFE STAND-OFF DISTANCE

Device Description	Explosive Capacity	Minimum Evacuation Distance*	Shelter-in-Place Zone	Required Evacuation Distance†
Pipe Bomb	3 lbs. 220g	70 ft. 21 m	11 - 1,900 ft. 33-360 m	1,200 ft. 366 m
Beatsleeper Bomb	2 lbs. 90g	150 ft. 46 m	11 - 1,000 ft. 33-310 m	1,700 ft. 518 m
Boobytrapped Vehicle	50 lbs. 220g	150 ft. 46 m	10 - 1,000 ft. 31-300 m	1,200 ft. 366 m
Car	100 lbs. 300g	200 ft. 61 m	20 - 1,000 ft. 30-370 m	1,800 ft. 549 m
IED Van	1,100 lbs. 400g	400 ft. 122 m	40 - 2,000 ft. 120-610 m	1,400 ft. 427 m
Small Delivery Truck	4,000 lbs. 1,000g	800 ft. 244 m	80 - 2,500 ft. 24-760 m	1,800 ft. 549 m
Commercial Route Truck	12,000 lbs. 4,000g	800 ft. 244 m	80 - 2,000 ft. 24-610 m	1,500 ft. 457 m
Bank Trailer	50,000 lbs. 17,000g	1,275 ft. 475 m	120 - 2,000 ft. 47-610 m	1,800 ft. 549 m

* Based on the maximum amount of explosive that could reasonably be used in a car or vehicle. The above profile.
† Assuming the ability of the individual to take shelter in a structure or vehicle.
* Assesses the ability of the individual to take shelter in a structure or vehicle.
† Assuming the ability of the individual to take shelter in a structure or vehicle.
* Assesses the ability of the individual to take shelter in a structure or vehicle. These distances are not reduced for personal wearing of NBC protection.
† Based on the ability of the individual to take shelter in a structure or vehicle. The above profile.
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† Based on the ability of the individual to take shelter in a structure or vehicle. The above profile.

Improvised Explosive Device (IED) SAFE STAND-OFF DISTANCE

Device Description	LPG (Lbs./Gallon)	Protest Distance*	Safe Distance†
Small LPG Tank	25 lbs./3 gal.	8 ft. 2.4 m	100 ft. 30 m
Large LPG Tank	150 lbs./20 gal.	48 ft. 14.6 m	270 ft. 82 m
Commercial/Residential LPG Tank	3,000 lbs./400 gal.	107 ft. 32.6 m	330 ft. 101 m
Small LPG Tank	6,000 lbs./800 gal.	220 ft. 67 m	1,300 ft. 396 m
Gasoline LPG	48,000 lbs./6400 gal.	12.14 ft. 3.73 m	1,200 ft. 366 m

* Based on the maximum amount of explosive that could reasonably be used in a structure or vehicle. The above profile.
† Assuming the ability of the individual to take shelter in a structure or vehicle.
* Assesses the ability of the individual to take shelter in a structure or vehicle. These distances are not reduced for personal wearing of NBC protection.
† Based on the ability of the individual to take shelter in a structure or vehicle. The above profile.
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Emergency Response Guidebook tables for bombs and improvised explosive devices

If you live near and/or down wind of a chemical production facility, freight rail line, or major highway you could definitely

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