

Bioengineered Pandemic Lessons Learned Report

May 26, 2024

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<https://www.collapsesurvivor.com/>

This 8th Collapse Survivor exercise training simulation dealt with a highly contagious, lethal, bioengineered pandemic. Released by just one individual at crowded airports in the U.S., then Europe and the Middle East, it quickly spread around the world, killing hundreds of millions directly, and billions indirectly (from the resultant collapse with massive starvation and marauder murder deaths). This report offers some lessons learned on what you would have to do to avoid the virus and then survive the collapse, avoid starvation and marauders with no outside help.



A video that covers some of these lessons learned issues from this simulation is available at:

<https://youtu.be/VU0QfPzTZl8>

The image shows a Zoom meeting window on the left with three participants: Ryan, Larry (Chief Intelligence Officer), and Dr/Col Drew Miller. On the right is a slide titled "Collapse Survivor SimWarn" for "Scenario 8: Bioengineered Virus Lessons Learned Podcast" dated May 28, 2024. The slide features the Collapse Survivor logo and a central graphic with the text "COLLAPSE SURVIVOR Take the apocalypse for a test drive!". Surrounding this central graphic are various disaster icons: Economic Collapse, Solar Flare / Electric Grid D, Pandemic, and Super Volcano. A "WE'RE CLOSED" sign is visible in the background of the podcast slide. A disclaimer at the bottom reads: "EXERCISE, EXERCISE, EXERCISE This is a simulated, scenario message, not actual news."

The screenshot displays the Collapse Survivor App interface. At the top left is the app's logo, a shield with a figure and the text 'HEAD SURVIVE'. The status bar shows the time as 3:22. The main header reads 'Initial Warning, first "bug out" decision'. Below this, a simulated alert is shown: 'Scenario 8' with a back arrow, an image of a smartphone displaying an emergency alert, and the text 'EXERCISE, EXERCISE, EXERCISE'. The alert text states: 'The Collapse Survivor App has issued an alert warning that several public health agencies in the U.S. are reporting deaths from an unidentified virus. There is no reliable information at this time, but you should get away from other people, avoid public places, and get home if possible.' Below the alert is a question: 'Q: There has been no government warning issued. Do you want to continue to go to work and do your normal routine, or prepare for a collapse?'. Three radio button options are listed: 'I will continue to do my normal routine, wait for more definitive information.', 'I will go home and stay there, wait for more information.' (which is selected), and 'I will "bug out" now to improve my prospects for survival if this is a SHTF situation.' At the bottom, a red banner reads 'EXERCISE, EXERCISE, EXERCISE This is a simulated scenario message, not actual'. A timer shows '28s' and a page number '2' is in the bottom right corner.

This scenario simulation started with a direct warning of the threat up front, a simulated Collapse Survivor threat alert warning of a virus spreading. That is the greatest value of the Collapse Survivor App, giving you real threat warnings probably hours to days before the government issues an official warning. The government will not issue a warning until they are absolutely sure of the threat, due to fear that the initial information may be wrong or cause a panic. They may also want to alert other people before sounding a general alert. Since their top priority is always making government officials look good and wanting the public to stay calm, not panic, the first warning of a pandemic or other big disaster is unlikely to be the official alerts. A formal decision making process and review is required, then a delay in executing the alert. The Collapse Survivor App uses the Disaster Preparedness collapse threat watch and warning system, which errs on the side of warn early and let people decide how to use the information.


The next message in the simulation was your first bug out decision. No government issued warning had been sounded yet, but given the Collapse Survivor threat alert issued you now were asked if you wanted to continue to go to work and do your normal routine, go home and wait for more information, or bug out to your safe survival location if you've got one. In our opinion, continuing to do work and your normal routine was not a good decision. We know that viruses like H5N1 are 60% lethal and will eventually by natural mutation or deliberate human manipulation and bio attacks, be human to human transmission. So on any report of a possible deadly virus spreading, you should immediately isolate yourself and alert family and friends.

Depending on where you live, if it's a big city, bugging out early could easily be a life or death decision. If you don't leave early and a panicked crowd starts trying to get out, or more likely, just widespread looting breaks out, you could get caught in that and killed. Every city and large suburb dweller should have well known and exercised family meet up, grab valuable supplies

and, if you've got a survival community or secure, rural bug out location—bug out. If the alert proves to be false, you've just had a great practice exercise.

The virus in this simulation starts in the U.S., then started infecting people Europe, then spread to the Middle East and the rest of the world. Near the end of the exercise you got confirmation of what you could have figured out on your own—the virus was released in the U.S., unsurprisingly in airports to help it spread faster, and then the person releasing it, it was just one person in this scenario, flew to Europe, and then on to Dubai. And releasing the virus in airports in all these locations, in just a few days it's all over the world.

If it was a country like Russia or North Korea releasing the virus, not an environment protection focused biologist (on a mission to kill billions of people to save the planet) like this scenario, then you'd likely see a release of the virus as a bio weapon by several people, and in more local than international travel venues. It would spread via international airlines later, but with the CDC reporting it, that would be an excuse for Russia or North Korea to block international flights in, and the virus wouldn't reach them. Also, they may well develop vaccines for the virus before they release it, so they can protect their top officials and people they want to be sure survive if the virus does eventually leak into their country. None of this is fantasy, national security officials have issued warnings of "inevitable" bio attacks for the past several decades. This was pointed out in some message traffic items during the simulation, like the one below:



EXERCISE, EXERCISE, EXERCISE

Most media and podcasters still operating are passing on old news, largely ignored then, but the hottest topic now. In 2011 the Erasmus Medical Center did "gain of function" research, turning the bird flu, H5N1 virus, into a mammal-to-mammal transmissible flu by infecting ferrets (mammals used to test human effects) repeatedly until a form of H5N1 that could spread through the air from one mammal to another resulted. Many warnings of misuse of CRISPR bioengineering technology to create deadly new viruses were provided including a 2016 article in a leading public policy journal warning of "bioengineered pandemics." The current bioengineered pandemic was anticipated, just not prepared for.

Bio-engineered viral pandemics are inevitable—warnings have been published, but largely ignored

A former CIA official condemned past Presidents for ignoring this threat. "In December 2011 national media reported that scientists had created a deadly virus with 60% lethality. The government asked the scientists not to publish their results, citing risks of terrorists using this information. We knew that biotechnology was going to be used to design deadly new viruses that could wipe out most of mankind. But nothing was done to prepare for this."

EXERCISE, EXERCISE, EXERCISE This is a simulated, scenario message, not actual news


4

Bioengineering technology and equipment is spreading and, combined with the very dangerous "gain of function" research that the U.S. government has funded, keeps raising the likelihood of a bad actor developing and releasing a deadly virus. In 2011 the U.S. government funded gain

of function research, which means making a virus more deadly, and in this case they developed an air to air transmissible version of H5N1 in ferrets, mammals with respiratory systems like humans. Worse—they published how to do it, and it was not a high tech method, something very simple that any small nation, terrorist group, or even one dedicated individual could do.

Warnings of an inevitable bioengineered pandemic have been published, the Departments of Defense and Homeland Security are well aware of the threat, Congress has had testimony from top experts on this huge risk for decades—but government has continued to fund biotechnology development and gain of function research, and nothing has been done to prepare the country for pandemics or collapse survival (beyond ensuring that top government and elected officials have shelters and survival facilities).

Article on risk of bioengineered pandemics published in leading public policy journal in 2016 specifically cited risk of human-to-human contagious Avian Flu (H5N1)



- Biologists have testified before Congress warning that an H5N1 pandemic, from natural mutation or bioengineered, is inevitable

The Age of Designer Plagues

Drew Miller

The world is likely entering the age of bioengineered viral pandemics and collapse—BVPC for short. New technologies like bioengineering enable terrorist groups, or even one dedicated individual, to modify and release new viruses that could cause both a pandemic and, as people react, a likely collapse in economic activity and possibly even law and order. Many experts say natural or bioengineered viral pandemics (BVP) are inevitable as it becomes increasingly easier to modify an existing pathogen, making it more lethal and transmissible. Should there be a deliberately loosed pandemic, revolutionary changes will flood our economy, military, foreign policy; we will not live as before during the Age of Bioengineered Viral Pandemics and Collapse.

This bleak age may be unavoidable, but we can prepare ourselves to minimize its dangers. Yet the specter of biological attack, especially by hard to identify and hold to account (let alone deter) non-state actors, is little addressed by the media or even inside the U.S. government. Nuclear terrorism we fear and try to deal with, no doubt because we have mental images of nuclear weapons going off to provide a sense of dark possibility. But we seem to suffer from a near total failure of imagination when it comes to bioterrorism, even though for a host of technical and other reasons—simpler engineering, much lower cost, quicker critical mass generation, smaller cadre of workers, smaller facilities for concealment purposes and ordnance delivery—it would be vastly easier for bad non-state actors to master a bio-attack than a nuclear one. We need to overcome that failure of imagination.

In December 2011 national media reported that scientists had created a human-transmissible form of the deadly avian flu virus, previous versions of which have had 60 percent lethality. Since then, new “CRISPR” technology makes it much easier to manipulate DNA—with kits as cheap as \$130 available.

Genetic engineering, or bioengineering, is the manipulation of an organism’s genetic material. Scientists have been creating genetically modified organisms (GMO) since the 1970s, and in 2010 the first synthetic new life form

HOLIDAYS (NOVEMBER/DECEMBER) 2016 53

Above is a 2016 article in the American Interest, one of the leading public policy journals, that quoted experts saying that biotechnology is going to be abused by bad people and bad nations to develop a deadly virus. It is already too late to stop the knowledge that is out there on how to manipulate viruses like H5N1, or create brand new ones. Here is a link to that article:

<https://www.the-american-interest.com/2016/09/20/the-age-of-designer-plagues/>

Below is the link to a similar report, published by the Institute for Defense Analyses, the top Department of Defense think tank:

<https://apps.dtic.mil/sti/pdfs/AD1123716.pdf>

NSD-5335

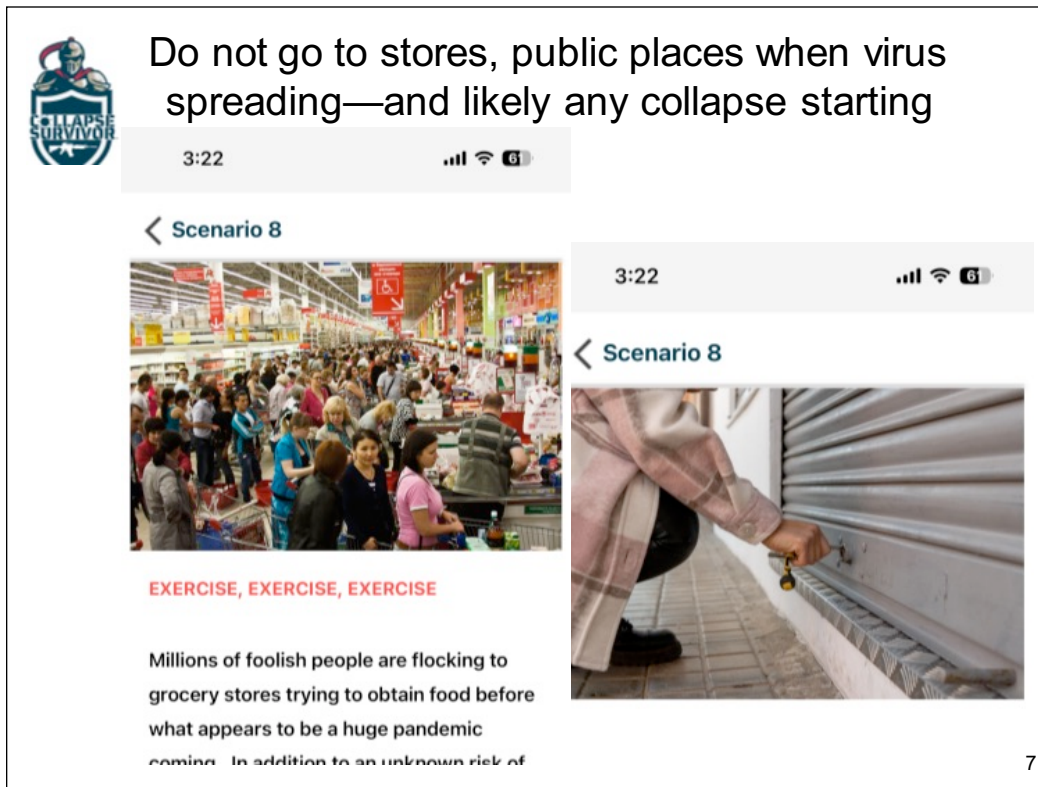
The Age of Bioengineered Viral Pandemics and Collapse

Drew Miller

October 2014

In this scenario it was a biologist who wanted to stop human overpopulation and destruction of the environment who released a deadly virus, but Russia, China, Iran, North Korea, Al Qaeda or just one dedicated individual could develop and release a virus to wipe out most of our species. And experts say this is inevitable, it will happen some time.

The obvious priority when a deadly virus is spreading is to avoid contact with people, or contact with areas/surfaces that others have been in over the past day. Influenza viruses can survive on surfaces for several days and infect you.



In a pandemic, any collapse situation, people will flock to grocery stores to try and get more food and other key survival supplies. This is a bad decision in all collapse situations (unless you've got advance warning of the collapse, and 99% of others are assuming it's a normal day), but especially foolish and potentially deadly in a collapse where you risk picking up the virus. Unless you have some advance warning of a disaster coming avoid stores, especially grocery stores, because they will be mobbed with desperate people and looters, and you face a big risk of getting stabbed or shot by looters, marauders.

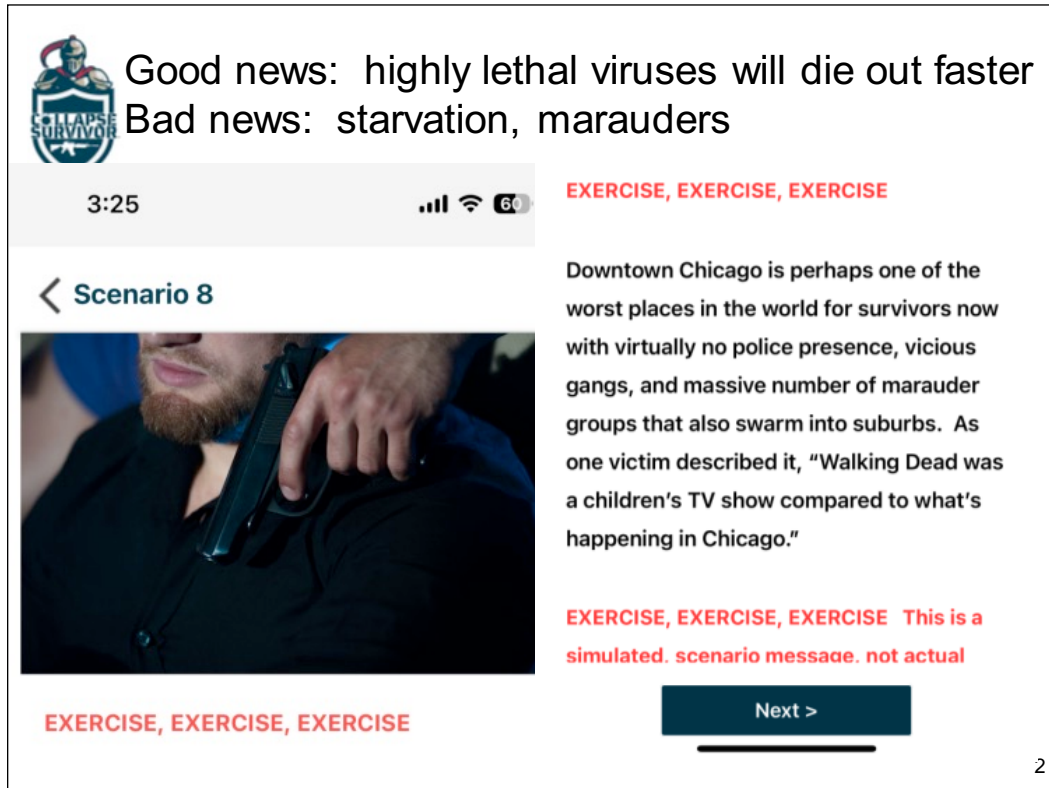
In one of the simulations messages you were asked to attend a neighborhood meeting to deal with the growing marauder threat. The best answer was cooperate if you don't have a safe bug out place, but don't attend any meetings where you could be in contact with people.

The best way to survive a pandemic is to immediately get to a remote survival community or bug out location, with no contact with people enroute. This means having enough gas in your vehicle, or stored at your house, so no stop at a gas station is necessary. You'd have to assume the pump is covered with virus. If you absolutely had to tank up, then wear gloves and masks and after fueling—discard the masks and gloves at the station, holding your breathe until in the car. Ideally, you'd have an outer cover garment you wear while refueling and that would also get discarded (else some virus particles can settle on your clothes, take off with you, and infect you).

The 1918 Spanish Flu pandemic has many falsities in its name. The pandemic most likely started in Kansas, and it was not just 1918, the pandemic ran from 1918-1920, lasting over two years. This was about a 2% lethal virus, far worse than Covid-19, but nothing compared to a double digit lethal virus like H5N1 or the virus in this simulation. Two years of a bad, highly

lethal/contagious pandemic mean two years of little to no economic activity, food production, or law and order. This means mass starvation and uncontrolled marauding as both bad people, and normally good people stealing food to try and survive, break in to steal food and if necessary, kill.

While a more highly lethal virus will be more effective in shutting down economic activity and causing starvation/marauding, the good news is that a more lethal pandemic is not likely to last as long since it 1. Kills off it's hosts, and 2. Forces people to be far more separated.



The screenshot shows a mobile application interface. At the top left is a logo for 'SURVIVOR' featuring a knight in armor. The main heading reads 'Good news: highly lethal viruses will die out faster' followed by 'Bad news: starvation, marauders'. Below this is a status bar with the time '3:25', signal strength, Wi-Fi, and battery icons. A red text overlay says 'EXERCISE, EXERCISE, EXERCISE'. A back arrow and the text 'Scenario 8' are visible. On the left is a photo of a man's hand holding a handgun. To the right, text describes the dangers of downtown Chicago: 'Downtown Chicago is perhaps one of the worst places in the world for survivors now with virtually no police presence, vicious gangs, and massive number of marauder groups that also swarm into suburbs. As one victim described it, "Walking Dead was a children's TV show compared to what's happening in Chicago."' Another red text overlay says 'EXERCISE, EXERCISE, EXERCISE This is a simulated. scenario message. not actual'. At the bottom left, another red text overlay says 'EXERCISE, EXERCISE, EXERCISE'. At the bottom right is a 'Next >' button. A small number '2' is in the bottom right corner.

When you've got a highly lethal virus, 50% lethal in this simulation, the virus dies out fairly quickly. It kills it's hosts and unlike the common cold virus or Covid, people will avoid contact and the virus should die out fairly quickly. Not days, but within a few months between the virus killing hosts and isolation, quarantine, the virus should die out. This is not guaranteed. It may continue to spread in isolated populations, mutate and come back in a new form.

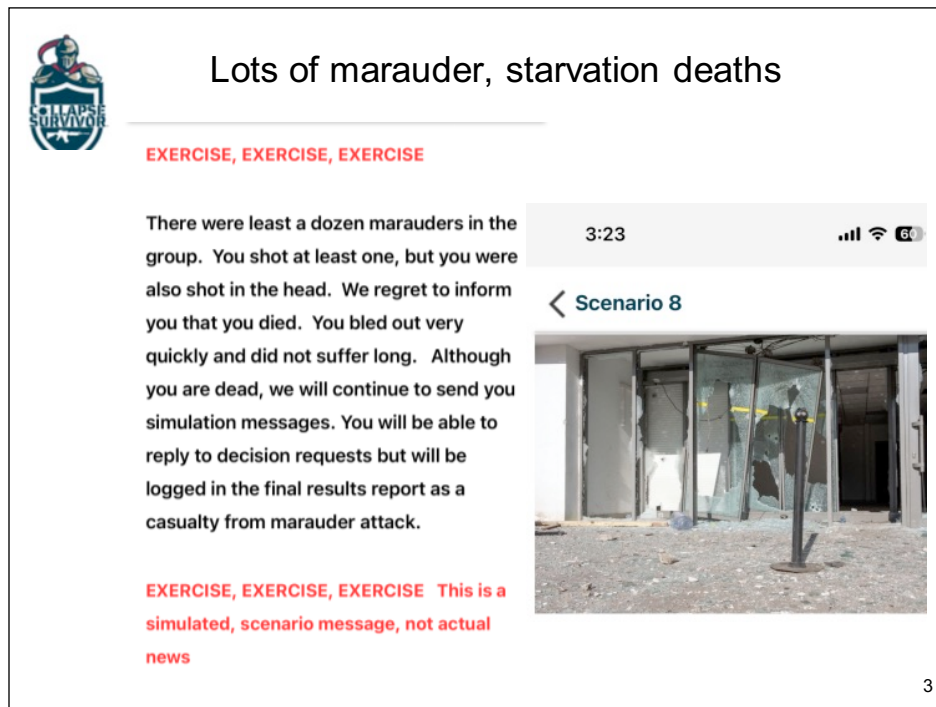
Once the virus has basically destroyed itself by killing its hosts and not being able to spread to other humans, those still alive are going to be in bad shape. They will still be starving, and looting and marauding, if it has subsided due to fear of contacting people and getting the virus, will likely take off again.

You should expect that looting and marauding will continue while the virus is still spreading. Death by starvation is extremely unpleasant, so starving, desperate people may prefer the uncertain risk of catching the virus to the certain death of starvation. This is all the more reason

to shoot marauders outside your home, be a member of survival community like Fortitude Ranch with remote locations, defensive walls, cleared lines of fire, lots of guard posts and hundreds of armed members—so a marauder group won't attack you, or if they do, will get shot far away from you and not spread the virus to you.

Having a remote, safe bug out location or survival community to get to ideal if and only if you have both a facility that can keep people separated and staff in charge of managing the people as they come in to ensure they stay separated for at least a few days, ideally a week or more, in case someone is arriving with the virus.

If you can keep other people away from your group, then pandemic survival ultimately comes down to food production and marauder defense.



The screenshot shows a mobile application interface. At the top left is a logo for 'CITIES SURVIVORS' featuring a knight in armor. The main title is 'Lots of marauder, starvation deaths'. Below the title, the text reads: 'EXERCISE, EXERCISE, EXERCISE'. The main body of text says: 'There were least a dozen marauders in the group. You shot at least one, but you were also shot in the head. We regret to inform you that you died. You bled out very quickly and did not suffer long. Although you are dead, we will continue to send you simulation messages. You will be able to reply to decision requests but will be logged in the final results report as a casualty from marauder attack.' To the right of this text is a simulated mobile phone interface showing the time '3:23', signal strength, Wi-Fi, and battery icons. Below the phone interface is a back arrow and the text 'Scenario 8'. Underneath is a photograph of a building entrance with shattered glass doors and debris on the ground. At the bottom of the screenshot, the text reads: 'EXERCISE, EXERCISE, EXERCISE This is a simulated, scenario message, not actual news'. A small number '3' is in the bottom right corner of the screenshot.


This scenario had several billion fatalities worldwide. With no food production or economic activity for a year, that's the natural result. Urban and highly populated areas cannot survive without a functioning economy, food production, and long distance food shipments. It could have been worse in this scenario, but Australia and Argentina were able to surge food production and then navies around the world and our Merchant Marine fleet rallied to distribute it.

Most deaths in this simulation were from starvation, marauders the #2 biggest killers, and the virus the 3rd largest direct killer. Of course, the virus was the root cause of all fatalities, but when there is a highly contagious and lethal virus, people will stay separated, the virus will die out. But this will take months with little economic activity or food production, probably no food distribution, and few policemen on duty, massive looting and marauding as both bad people, and normally good people who turn to marauding to get food and stay alive sometimes also engage in murder. If you are alive and have food you must expect that you will become a target, bad marauder gangs and starving people coming at you to steal your food and survive. If your

defenses are fantastic and they can see they are, you may make it through with no marauder attacks.

There is no guarantee that a pandemic will end in a year, or two years. Reliable collapse survival really requires the ability to raise food—gardening and farm animals, ranching. You can forage to get a lot of crops—but if there are marauders around you, or starving people have shot all the wildlife, foraging may not work for you beyond the first few months. Gardening and raising farm animals requires a lot of area—and a lot of people to do the work and guard the area. This is why large survival communities are vital. A small group of people, even 30, is unlikely to be enough to man guard posts and defend your gardens and animals.

The “Deep Dive Survival Topic” for this simulation was eating bugs and rats.



Deep Dive Survival Topic: Eating Bugs and Rats

EXERCISE, EXERCISE, EXERCISE


Q: The unburied piles of dead bodies are producing huge quantities of fat rats. You know that rats are a popular food in southeast Asia, and that the calories they could provide may mean life or a very unpleasant starvation death. All of the following statements about eating rats in a collapse are true except for one. Which one is false? Will you eat mice and rats to survive?

- At least 11 species of rodents are used throughout Central and South America as sources of meat, cane rats are popular in Africa and Paris, popular in Vietnam
- Even if the rat has been dead outside for hours, its safe to eat
- Rats are vectors and reservoirs for at least 60 diseases that can be transmitted to humans, but as long as the rats are well cooked, safe to eat
- Must exercise caution in slaughtering and handling rodents. Do not get cut, wash

4

Rats are safe to eat as long as you follow the right precautions. People all over the world eat rats daily, it’s a popular dish in some areas. Do not eat a rat or any critter that has been dead for awhile and you don’t know what it died of. If it died of a virus, you do not want to eat it. If its been dead long and spoiled, you don’t want to eat it. But even in this case, it is a valuable food resource. Wear gloves and masks, scoop it up in a shovel, take it to where your free range chickens roam and shallow bury it. The carcass will produce worms and bugs that are fantastic food for your chickens. If you've got dogs, put rocks over it so they can't dig it up, but the bugs will get out and your chickens will find them. At the Fortitude Ranch survival community, the policy is if a marauder group attacks, we will use their dead bodies to feed our chickens; shallow burial, let bugs feast on them and our chickens eat the bugs, we get the calories.

If you've just caught a rat in a trap, or just smashed it with a shovel, and you're in a starvation survival situation, you definitely should eat it. Wear gloves, be careful not to cut yourself while cleaning the rat—the guts you'll save for the bugs and chicken feed. The meat is safe to eat as long as you cook it at high temperature for a long time. Cut it into small pieces, put in a stew or soup. No need to announce to people that they are dining on rat, or serve it up in full body form to advertise this. The meat is fantastic protein and calories, and this may be a significant source of food for you in a collapse. With millions, maybe billions dying, the rats are going to have a feast and there will be a lot of them. Think of the trenches of World War I, huge rat populations feasting in no man's land. You face starvation in most collapse scenarios, you cannot be picky, you need to go after every calorie you can for survival.



Bugs are fantastic food source for survival

- Most people around the world eat bugs
- Insects are packed with real animal protein, beneficial fats, vitamins, minerals, antioxidants and they are a prebiotic fiber
- Do not eat red, bright colored bugs
- Basically animals we eat whole (all parts as opposed to just the meat)
- Nutrients more bio-available than livestock muscle tissue or wheat
- Best to roast, grind up, and hide in soup/stew/chili to not upset someone
- If don't want to eat bugs—chickens will

**Simple trick to make them acceptable:
roast, grind up, put in soup or stew**

No need to eat bugs raw

Source: Fortitude Ranch www.fortituderanch.com

5

Similarly, bugs are a great source of protein and calories. The above exhibit is a training slide from the Fortitude Ranch franchise training program for Ranch Managers. Bugs are a fantastic survival food, but not like you see in stupid TV shows. You would not ask people to eat raw bugs; you fry them, grind them up, and put them into a soup or a stew. You get fantastic protein and calories and zero yuck factor. You will not know that you are eating bugs. Crickets, probably any bug that is not red or bright colored is safe to eat. If in doubt, test it with very small amounts, one person, your “expendable crewman” if you're a Star Trek Fan. The bright colors are a warning to predators not to eat them. If a doubtful bug, just save it for your chickens to eat.

Again, when you are in a collapse and facing starvation—every calorie counts. But you can completely eliminate the bug yuck factor with roasting and griding up bugs and putting them in a soup or stew.

The likelihood of a natural pandemic or bioengineered virus deliberately released to cause a pandemic is high now. The likelihood will get higher with Artificial Intelligence being used to design more deadly viruses.

An estimated one third of Americans are prepping as of late 2023, and it's spreading around the world. If you live in a city or suburb you especially need to be joining a large survival community and have a safe bug out place to go in a rural area where you can garden and farm and ranch and survive, protected by a large group of armed people to keep the marauders at bay.