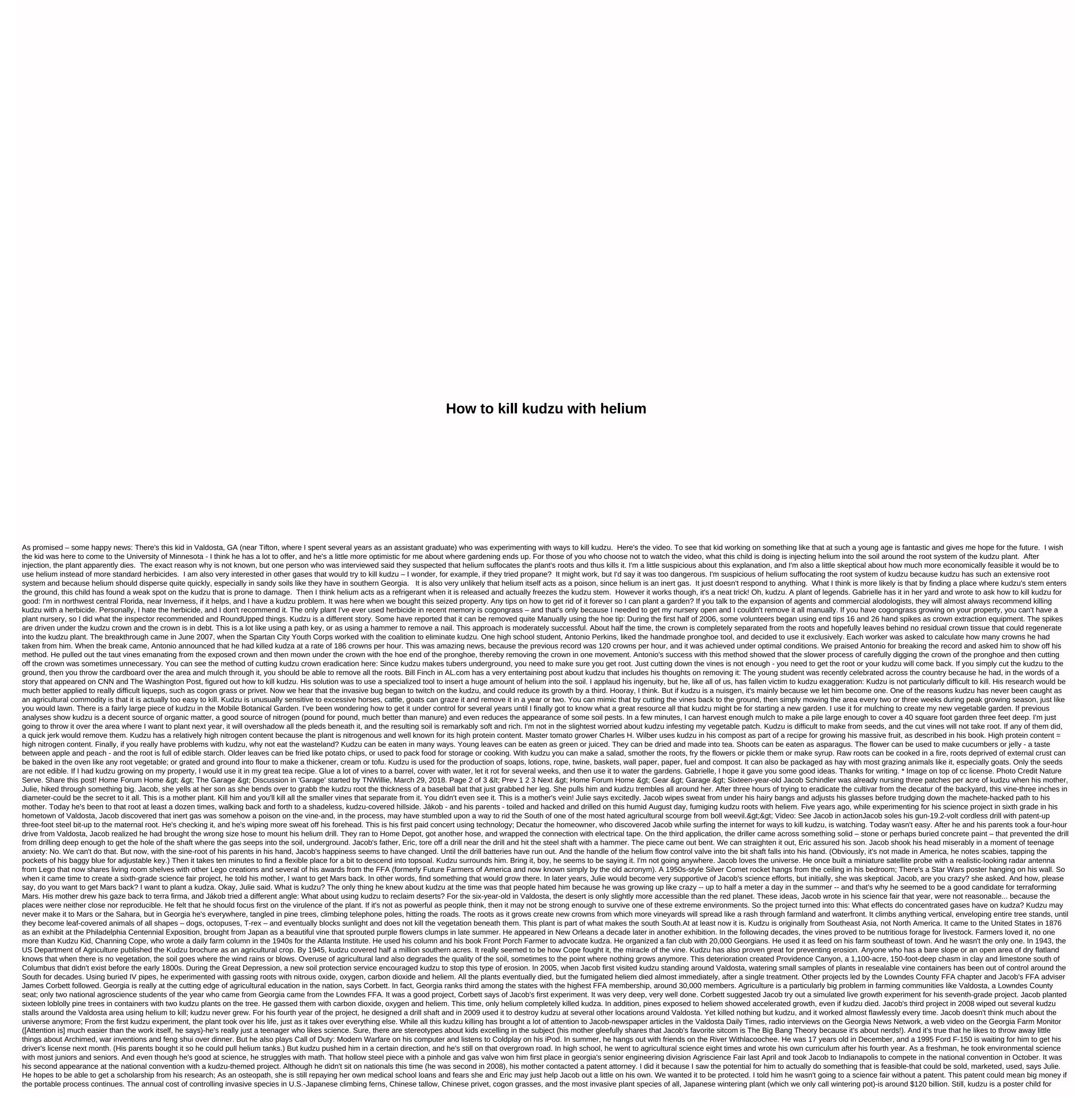
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creeping, annoying plants, Dr. David Moorhead, co-director of the Center for Invasive Species and Ecosystem Health at the University of Georgia. Those thick kudzu mats just suffocate the other plants out, he says. In his office in Tilton Moorhead, he stuffed digital images of the Kudzu attack in Georgia, Mississippi and Alabama. The vine now covers about 7 million acres in the south. Here, it doesn't have some of the natural predators [like insects] and pressures [like insects] and pressures [like the weather] that it might have in its native range, explains Moorhead. Recent droughts aside, our traditionally long and wet summers promote aggressive growth. Short, mild temperatures keep podsoil from freezing and killing root crowns. The roots store enough starch to keep the plant alive just below the surface, so that when spring strikes, new vineyards will burst out of the crowns exactly where last season's growth ended. Miracle vines? More like an evil ecversy. As devastating as kudzu can be, it also has benefits-in some places. It will grow in poor quality soils, moorhead says, which is why it was planted so widely in the south in the 1930s and 1940s. Look at some of the early plantings in highly eroded places, how many leaves are recycled each year as mulch. It's part of the land-building process. Moorhead clicks on a picture on his monitor, an aerial shot of the Mississippi infestation. The green kudzu carpet covers about a dozen acres by the roadside. The afternoon shadows reveal a deep, venous pattern of a huge gathering break, perhaps a small Providence Canyon that once threatened to wash away the earth until kudzu came to stop it. In some places, Moorhead notes, kudzu is literally the only obvious dead kudzu on a machete-hacked road, although Julie was convinced that the killing worked on the bottom layer of the plant. Not only that, but two weeks before this paying Decatur concert, Jacob treated large patches kudzu some railway lines in Valdosta. After about 20 minutes of slicing through the vines with a machete and a small axe, he found his parents' thick root, drilled one hole and emptied a small tank of helium into it. Six days later, his mother sent photos of an auto-sized patch of brown, dried vines where kudzu had shrunk and died, just as it was for all projects of the Javan Science Fair. But in October, Jacob said it too, growing back. I have no idea how helium really affects kudza, Jacob admits freely. Nor does he know why adjacent plant growth seems to be accelerating, at least in his controlled experiments. Now that he's familiar with the scientific method, he has hypotheses. Valdosta sits atop georgia's sandy coastal plains, but The Atlantic soil of Piedmont is rich in thick red clay that may have limited helium through the soil. August is the peak of the growing season for kudzu; All successful eradication in Valdosta occurred in early autumn when kudzu begins to recede and starches down to the roots in preparation for winter hibernation, Jacob says. Maybe that's when kudzu is most vulnerable. Decatur's work has raised some questions, but the method still shows the potential of Dr. Stephen Enloe, assistant professor of agronomy and soil at the University of Auburn. He heard about Jacob's research through internet chatter and helps Jacob apply for research grants from the Weed Science Society of America and the Alabama Invasive Plant Council. Enloe calls Jacob's scientific research results impressive. Of the latest results, he says: It's very fascinating to see differences like this. One thing we know is that not all kudzu patches are created equal. Ikob's theories about soil density and the temporal sensitivity of killing are good, but Enloe says the age of the kudzu stand could be a factor; Older patches can have much larger and deeper root tubers that could be more resistant to the helium method. Helium is biologically inactive, Enloe explains, which means it does not usually bind to other elements to create new substances. My hypothesis is that helium cleanses other gases [such as oxygen and carbon dioxide] from the system. Enloe discussed the process and Jacob's research with colleagues at Auburn, including soil chemist and soil physicist, and hopes he can use some of Auburn's resources for Jacob in addition to what teens might get from research grants. Often you can do quite a bit when you're resourceful with a little money, says Enloe. Jacob returned to Decatur in early October to hit the stubborn patch once more. Based on his theory of dense soil, this time Jacob pierced the ground through twenty holes using a steel piece. Instead of using a drill to disperse the gas, he used two irrigation hoses from his third-year project, each with ten shorter branches, to flood the bedrock with helium from two large reservoirs, each costing about \$100. A week later there is a total loss of kudzu, with some leaves looking slightly yellowish. But cooler temperatures have thrown away summer growth everywhere. What happened where it counts, down under the soil? If spring postpones another southern winter and april rains give birth to a biological awakening to those starch-filled roots, what will kudzu do? Jacob can only wait. He's looking at his data, collecting reinforcements with the help of Auburn, charging those drill batteries, and preparing for the next battle. Kudzu's waiting, too. Bring it, boy, he seems to be saying it. I'm not going anywhere. Photo by Michael Cogliantry / Design by Eric Capossela Capossela

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