**3 DIFFERENT** 

## Researcher successfully clones woody plants

VIDENCE, R.I.— While sts debate the possibilities of ating human beings from a ell, a University of Rhode fessor cloned a vineyard. Villiam R. Krul, a professor and soil science, discovered breed of grape that can be ed by cloning — taking one an organism and getting it ly until there is a carbon

here's been no indisput-

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able evidence of cloned human beings, but scientists have successfully cloned "soft" plants such as as
U.S. Agriculture Department's fruit laboratory in Beltsville, Md., said knew "tremendous" taken from the mass and put in a medium with different hormones until new plants begin to grow. paragus and carrots.

particular, grapes.

Traditionally, vines are reproduced with cuttings rooted in sand.
But Krul can put a single cell in his test tube and wind up with a healthy

Dr. Michael Faust, chief of the

Salad Fork

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advantages" for the wine industry. Krul is believed among the first scientists cloning "woody" plants: in To clone a plant, Krul takes an individual cell from a "young, immature" section such as a stem, and single cell. places it in a medium which includes nutrients, sugar, vitamins and hor-

Once he figures out why it clones so easily, he hopes to get other types of grapes to reproduce from a

"Taking cuttings is perfectly acceptable but if you find a rare mut-The cell splits in two and new cells continue to divide until a "tumor-like mass" forms. Cells

and thousands of plants in a relatively short time," he said.

"It will be a tremendous advantage," Faust agreed. "When we de-

velop a new variety, we can produce 10,000 plants in months.'

Krul and Faust both say cloning also produces healthier plants. Bothersome viruses, common to grape vines, aren't transmitted through cloning as they are through

virus-free vines. Most people are limited in the number they can pro-Krul said.

Although most grape vines take three years to produce fruit, the scientist said his cloned vines had fruit after one year. The next step is to test the plants "for trueness to type to make sure we've still got what

we started with. The few bunches of grapes he has harvested seem to be satisfactory,

SIVE

## Navy uses island for mock war

THE BATTALION Page 13

KAHOOLAWE, Hawaii - The Navy jet screams in low over the island. Its bombs tumble toward the concentric rings of stone below.

Artillery fire booms toward a nearby ridge. Flares light up the

A war zone? No. It's the Navy's practice island of Kahoolawe, just six miles away from the luxurious resorts on the Hawaiian island of

For more than three decades, the 45-square-mile island has been pounded by explosives. Now there is a movement to bring the destruction to a halt.

A group called the "Protect Kahoolawe Ohana," made up mostly of native Hawaiians, wants the Navy to clean it up and turn it over to the

state, perhaps for a park.

The word Kahoolawe in Hawaiian means "blowing red dirt" and it is hard to imagine a more fitting name. Even from the air, Kahoolawe obviously is not one of Hawaii's more hospitable islands. The red dirt and the kiawe bushes contrast sharply with the lush green vistas of Maui across the channel.

The wind whips across the island's barren plains and leaves a residue of red dust. It weaves itself into the fabric of clothes, it clings to hair and it insinuates itself into the lines at the corner of the Marines'

The island has been controlled since World War II by the U.S. military, which uses it for artillery and air bombardment practice. It is

Even from the air, Kahoolawe obviously is not one of Hawaii's more hospitable islands.

normally off limits to all but military personnel, but recently a group of reporters was allowed to visit the island for a tour.

The bombing and artillery show put on by the F-4 Phantoms from Marine Fighter Attack Squadron and two 155-millimeter howitzer crews from K Battery of the 1st Battalion, 12th Marines, was less spectacular than one might have ex-

The phantoms were dropping practice bombs, which don't make as big a bang as the 500-pounders they carry on combat missions.

Low clouds meant that the Phantoms had to fly almost parallel to the ground, which makes it harder to hit a target. Consequently, about half the bombs dropped failed to land within the stone circles.

Marine Gunnery Sgt. G.L Thomas, a part-Hawaiian, probably has spent more time on Kahoolawe than anyone else. To his friends he is known as the "mayor of Kahoolawe.

Thomas and other said that the military has eliminated about 200 areas on the island as targets mainly because possible historic sites have been discovered in those places. And indeed, as one travels about the island, numerous yellow markers designating historic sites

can be seen.

To the untrained eye, the sites look like a jumble of rocks. However, the discoveries were made by archaeologists and if the prevalence of the markers is any indication, there must be a considerable number of historic artifacts on the otherwise desolate island.

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sizes it needs Kahoolawe, the only area in the state where pilots can practice bombing runs.

support. If it were not available, training would probably have to be conducted somewhere in the western United States, 3,000 miles away from the strategic base at Pearl

Harbor.
Not only would there be the lost traveling time for carriers and their squadrons to commute between the West Coast and Hawaii, the military contends, but the cost in transportation would skyrocket.

In addition, the Navy estimates it would cost \$130 million to clean up unexploded bombs and other residue left from decades of military

But the Ohana says the price is worth it. They say the land is sacred to them and it should be restored to the people. To emphasize their case, Ohana members have trespassed on the island to force a halt to

the bombing.

Kahoolawe used to be a penal colony in the days of the early
Hawaiian monarchs and by the expressions on the faces of the Marines manning the guns, it

looked as though it still was.

They had been on Kahoolawe for eight days and still had two more to go before they returned to Hon-

The happiest-looking enlisted men were two off-duty Marines who were snorkling at Smugglers Cove, which the Marines call "the riviera of Kahoolawe." It is the only good beach on the island and the surf is



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