

Defense Strategy Altered By Science Of Rocketry

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The advancing science of rocketry is now making its first major mark on Western defense strategy for Europe.

The United States has announced it is pulling out of the air bases it spent millions to build in Morocco.

In the place of these bases and the B-47 medium bombers they serviced, intermediate range ballistic missiles will become one of the main "strike-back" weapons of the Mediterranean command.

TWO JUPITER missile bases capable of hurling a hydrogen bomb warhead 1,500 miles—have been programmed for Italy for some time. Abandonment of the Moroccan air bases hinged on agreement with Turkey for another Jupiter base in that strategically located country close to Russia's southern border.

Agreement with the Turks was made public October 30 and the announcement of the eventual Moroccan air base shutdown quickly followed.

The Moroccans have been crying the Arab equivalent of "Yankee, go home" ever since 1956, when they achieved independence from France.

The Mediterranean missile bases

will complete an arc of rocket defenses capable of blanketing the Communist satellite countries and much of the European part of Soviet Russia, as the accompanying map shows.

Missile bases in England have been under construction for some time and are expected to be ready for four squadrons of Thors next spring. Each Thor squadron contains 15 rockets. No timetable has been revealed for the Italian and Turkish installations.

The strategy which culminated in closing Moroccan bases reportedly had its inception in 1957 when it was decided to change European defense emphasis from bombers to missiles.

IN DEVELOPING the air bases, Uncle Sam paid a whopping bill. The four Moroccan air bases and one naval base cost 372 million dollars. But the outlay was considered necessary to build up the Allied defense structure.

What will happen with the costly equipment and the personnel who staffed the Moroccan bases?

Some bombers and men will be transferred to England and to Spain. The U.S. already has spent 350 million dollars on existing Spanish bases. But most of the 8,500 officers and men in Morocco will be withdrawn to the U.S.

The dollar and cents figure on what the missile bases will cost hasn't been spelled out. The cost of a single Thor has been estimated at one million dollars. Of course, the building of a base as well as related costs brings this to a much greater figure.

The bill in England won't be as high as that in Turkey and Italy. The British are paying for the construction of installations on their soil.

WHILE ESTABLISHMENT of these intermediate range ballistic missile bases moves toward reality, intercontinental ballistic missiles—with ranges to 6,300 miles—are at combat readiness. At least that was the recent claim of Maj. Gen. David Wade, commander of the First Missile Division. He said

an Atlas missile can be hurled up to 6,300 miles on 15 minutes notice from Vandenberg Air Force base in California. The Atlas, he said, has been integrated into the Strategic Air Command's emergency war plan.

Perhaps in time, the Atlas or its intercontinental range successors the liquid-fueled Titan and solid-fueled Minuteman, may make obsolete the foreign-based Thors and Jupiters, just as these intermediate range missiles have eliminated the need for manned bomber bases in Morocco.

School Woes Not Exclusive With America

CHICAGO (UPI)—The problems that plague educators in the United States are a headache in Tunisia too.

Twenty-five Tunisian teachers, in this country for a two-month study of American educational methods, testified to that.

The demand for education in their country so far outstrips available schoolroom and teaching facilities that children go to classes in shifts of four hours a day, according to Aliah Ben Hamida of Tunis, leader of the Tunisian group.

A 20-room addition was needed by one new school within six months after it opened, Miss Ben Hamida added.

Until last year, she said, Tunisian schools were patterned after those of the French, with seven years of elementary education and six years of secondary schooling. This is the equivalent of four years of high school and two years of college in the U.S.

But Miss Ben Hamida explained that elementary work has been cut to six years while the government has embarked on a "crash program" of building schools and subsidizing teachers' education.

All this may sound painfully familiar to Americans, but there are also differences between Tunisia and the U.S. in the educational field.

For one thing, hockey-playing is no problem in her country, Miss Ben Hamida said. On the contrary, a student is punished by forbidding him to attend school for a few days.

And, she added, American-style juvenile delinquency is unknown.

New Bottle Cap Made

CLEVELAND, Ohio (UPI) — Two-year-old Keith Christian, like most children his age, likes to unscrew bottle caps.

But Keith can't get anywhere with the pill bottles in the medicine chest at his home. He can't bite, flip or unscrew the covers because they are protected with a foolproof cap designed by his father.

Kenneth Christian, a barber by profession, is an inventor on the side. The patent on the safety cap is pending in Washington and he has a plastic manufacturer lined up to make it.

KITCHEN EFFICIENCY

AMHERST, Mass. (UPI) — The kitchen food preparation or mixing center should be next to the refrigerator or sink, with an adequate work surface at least 36 inches in length, said Verda M. Dale, home management expert. The University of Massachusetts specialist also said electric mixers should be stored there for easy access when needed.



YES, WE HAVE BANANAS—It's easy to grow a banana tree, according to Ralph Harmon. Harmon, manager of a grocery store in Cincinnati, got the tree from his father's place in Florida. In Ohio, the tree was planted and grew from six inches to 12 feet in seven months. But fall air began nipping at the plant and Harmon decided to winter it in the store. He's thinking of cutting a section from the store ceiling to see how well it'll do indoors.

Own a 'Jeep'?

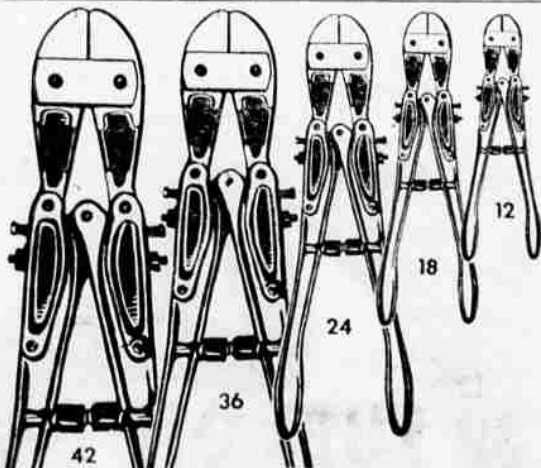


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A FAMOUS MAN — T. S. Eliot, a legend in his own time, smiles in reminiscence as he looks through a collection of his early poetry in Chicago. The American-born English citizen published his first work in 1915.

BLUEBERRY-LIME MOLD

NEW YORK (UPI)—Fresh blueberry lime mold makes a tempting salad. Soften 2 envelopes of unflavored gelatin in 1 cup of cold water. Add 1½ cups of hot water, ¼ cup of sugar, and ¼ teaspoon of salt, and mix well to dissolve gelatin. Blend in ½ cup of fresh lime juice. Chill until mixture is as thick as fresh egg whites. Fold in 3 cups of fresh blueberries, turn into a 5-cup mold and chill until firm. Garnish with salad greens and serve with mayonnaise. Serves 6 to 8.

ACADEMIC CRUSH

WASHINGTON (UPI)—The National Education Association predicts a 20 per cent increase in the number of students per teacher during the next 10 years.

To balance shortage against boom in students, NEA suggests larger classes which might be taught using television and other mechanical devices. The association also recommended elimination of courses that draw only a few students.