Newspapers

UA Meteorologist Outwalks Troops In Trek To Test Desert Dehydration

By JOHN RIDDICK

A University of Arizona scientist has outwalked seasoned troops under summer desert conditionswithout water.

During World War II, the Army found that the best its troops could do after tanking up with water in a desert sun was 18 to 20 miles.

Dr. William D. Sellers, a meteorologist in the UA Institute of Atmospheric Physics, recently any unusual amount of water before starting.

The Army was trying to find if you could train troops to fight in the desert on less water.

But after testing soldiers in the desert, the Army concluded that with a certain body weight a man is going to need a certain amount of water-no matter how much he has trained.

Like a lot of people, Sellerswho in his college days was captain of the cross-country team at the University of California at amount of water. Los Angeles-disagrees.

"I think maybe you can learn to tolerate losing water," Sellers said.

His colleague, Dr. James E. McDonald, has been persuaded men will take more punishment after stress. than others but their water needs are the same considering weight.

summer if a man could walk out heat in the exertion of walking a very good gauge of the body's from under the mushroom of an means the loss of a definite atomic bomb before the radioactive debris settled on him.

The bomb might cover a radius of 17 miles, which-if the wind were now blowing-would have to be covered in three hours before the radioactive death came

McDonald drank water until he was nauseated but managed to walked 24 miles-without drinking walk only 12 miles in three hours before collapsing.

Then on a challenge from Mc-Donald, Sellers decided to see what he could do in the desert sun. He covered his 24 miles in five hours which may or may not have put him out from under the theoretical mushroom.

One of the Army's findings was that it doesn't make any difference whether you fill yourself with water before you start or drink it along the way. You get the same benefit from a given

To get its information, the Army took troops to the California desert. At the time, it was concerned about fighting in Africa.

The soldiers were put under every imaginable condition and by the Army point of view-some weighed for water loss before and

The conclusion was that it's all a matter of physiology. To use up

amount of water.

Moreover, the effect on the body of losing water through winds blowing-or gaining heat through hot winds-is definite.

So that finally, it's a simple matter of balancing the budget.

When a man has lost 5 per cent get irritable. When he loses 10 per cent, he refuses to walk any-

And when he loses 20 per cent, his blood becomes so thick his ahead. heart won't pump it and he dies. | But two men of the same size

McDonald was wondering last a certain number of calories of Along that route, thirst is not need of water. A man will be dryer than he knows. Fatigue, on the other hand, is a good sign of dehydration.

> A small man on these terms would need less water than a large man. So it might be best to of his body weight, he begins to send a small man on an important mission. On the other hand, a large man might be able to carry more water if it were available and this would put him

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