

Scientists Conclude That Man Can Make Rain-Under Certain Conditions

A national panel of disting guished scientists including the University of Arizona's Dr. James E. McDonald has conceined that man can make rain—under certain conditions.

Formed two years ago by the National Academy of Science to decide if human beings reality and scademy of Science to decide if human beings reality and released its report inspand released into respond released into the results row, "McDonald and the lease of the results row," McDonald was interested on the feath. The intensive debate. The intensiv

By JOHN RIDDICK
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A national panel of distinA national panel of distinB national panel of d

They are mystified as to why model a cloud in all its comthere should appear to be posi-tive results 150 miles downwind. plexity.

And McDonald is

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Rainmaking Issue Is Revived In Arizona

have raised the rainmaking question again in Arizona, where much pioneering already has been done.

The first commercial rainmaking effort anywhere in the world took place in Southern Arizona in 1950, sponsored by a group of ranchers.

A year later, a large rainmaking project was attempted by the Salt River Water Users Association, which seeded winter storms trying to bring more snow to the watershed.

In 1956, the University of Arizona Institute of Atmospheric Physics conducted one of the most careful experiments in rainmaking ever undertaken. The results of seven years of seeding summer cumulus clouds over the Catalina Mountains with silver iodide by aircraft, however, were that the scientists couldn't show statistically that they had affected anything.

Of this experiment, Dr. James E. McDonald, senior physicist

The new positive results re- in the institute and a national leased this week by the Na- panel member, said, "We don't tional Academy of Science panel know for sure why there were not positive results. It could be that the ice crystal process is not the one nature uses to make rain here."

> Dr. Louis Battan, associate director of the institute, concluded that the collision and merging of raindrops caused the rain and this would be immune to the influence of silver iodide.

> While he contemplates his own newly changed attitude toward rainmaking, McDonald hesitates at the moment to advise any group or community to hire commercial seeders.

"The time is not yet ripe for large scale operational efforts in areas where there has been no extensive testing," he said. "In Arizona, nothing less than a carefully designed randomized seeding trial experiment makes any sense at this point.

"But it could be that there should be a new look at the possibility of increasing the snow pack on the Mogollon Rim."

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