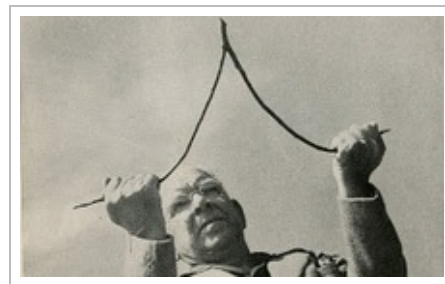


Henry Gross

Henry Gross (1895–1979) was an American game warden and dowser who used his ability to locate water for landowners. Anecdotal claims regarding Gross were publicized by writer Kenneth Roberts in three books which reached a wide public but also aroused controversy. Tests for psychic ability carried out by parapsychologists proved mostly negative. His most notable achievement was said to be the location of freshwater sources on the island of Bermuda, contradicting a prevailing belief that fresh groundwater was impossible to find there.



Life and Career

Details of Henry Gross's early life and [dowsing](#) activity are given by Kenneth Roberts in three books.^[1] Gross was born in Lawrence, Massachusetts, USA; his family moved to North Salem, New Hampshire when he was three. At the age of twelve, he befriended an elderly stonemason, John Dustin, and observed him dowsing by means of a Y-shaped stick that he had cut from a tree. He asked to try and found that the stick turned in his hands forcefully over a spot beneath which water lay.

When his school needed a well, he asked permission to try to locate a suitable source and was proved successful when the spot he indicated was dug. Aged eighteen he performed a similar feat for a neighbour. Word of his ability spread, and he carried out dowsing as a spare time activity while working as a game warden.

Kenneth Roberts, a journalist and writer of historical fiction, owned a farm in Kennebunkport, Maine, on which several wells had been dug in spots indicated by dowsers. In 1947, he met Gross, a neighbour, and mentioned his need for wells that would provide water for fighting the forest fires which had proliferated in the region as a result of drought. Gross cut a maple twig, and by means of dowsing identified a location that proved to be a good source.

Roberts was impressed by this and encouraged Gross to experiment in order to develop his ability further. Gross did so and discovered that he could dowse for a specific substance by first touching it with the tip of the rod, suggesting that the rod detected wave energy emanating from it. He also believed he could divine the answers to questions by observing the movement of the rod as the question was asked.

By 1949, Gross said he could now tell how far a vein of water was from where he was standing and how deep in the ground; how much flowed and in which direction; and whether it was potable. He also claimed to be able to dowse remotely, requiring only the location and name of the landowner. His reputation grew to such an extent that the local Soil Conservation Service recommended to landowners that they should consult him before attempting to dig a well (see Roberts, 1951 for examples).

In the winter of 1949-1950, Gross successfully indicated several sources for new wells in Bermuda, a particularly challenging environment (see below). He claimed to have identified water sources in distant locales by map-dowsing, including Nassau in the Bahamas, the island of Capri and the Sahara Desert, but few of these were verified by digging.

Gross continued to dowse in the northeastern United States during his retirement, responding to overwhelming demand. Political journalist Sam Smith recalls, during his teens, a visit to his household by Gross accompanied by Roberts and another of their neighbours, the actress Bette Davis: 'Whether by chance or by skill, Gross found a number of well sites that we would use for decades'.^[2]

To supplement his income and protect him from being taken advantage of, Roberts set up a corporation under the name Water Unlimited.

Roberts died on July 21, 1957,^[3] from which time publicity regarding Gross's dowsing activities largely ceased. Gross died in 1979.

Bermuda

Roberts was familiar with the Caribbean island of Bermuda, where he frequently went to write his novels. The territory was

known to have no fresh groundwater for drinking, only brackish water: the only sources were rainwater, gathered mainly from the roofs of buildings, and bottled imports. From publications by geologist Addison E Berrill and Walter Brownell Hayward, Bermuda's director of public works, Roberts confirmed that fresh groundwater was not to be found in Bermuda. Roberts knew of one well that had been dug in 1849 but was now dry.

Hearing of this from Roberts, Gross spontaneously carried out a remote 'map dowse', from which he concluded that good drinking water was available in three major locations in Bermuda; a fourth source was polluted; he sketched them and provided details.

A severe drought in the winter of 1949-50 imperilled Bermuda's water supply. Roberts decided to act on Gross's information and appealed to well-connected friends on the island, Sir Stanley Spurling and Sir Howard Trott, to help procure workmen and equipment. Gross was flown there on December 5; exploratory dowsing identified locations that matched those on his earlier map, although characteristics such as depth and flow differed.

A front-page report in a local newspaper generated controversy, and there were delays in finding labour, equipment and power sources for drilling. The four men persisted, and eventually four wells were dug, of which three produced potable water and one brackish. One of the wells produced fresh water at the rate of 44 gallons per minute for a period of 72 hours, and this attracted local people with containers and water-trucks, generating more front-page stories.

In a 2004 article, Mark Rowe, then head hydro-geologist for Bermuda Water Works, is quoting as saying that of three wells located by Gross, two were still 'very productive', while the water in the other was brackish. The article notes that of some 3,000 private wells in Bermuda, it is legal to drink water from only these two.^[4]

Testing

Gross participated in tests of psychic ability supervised by [Gardner Murphy](#) and others on behalf of *Life* magazine. He was asked to try to discern between hidden jars containing sand or water and envelopes that were either empty or contained a 25-cent coin. He did not succeed, and the study was not published.

Gross was one of two dowsers studied by parapsychologist [JB Rhine](#).^[5] Water was run intermittently through two pipes on Roberts' property and the dowsers were challenged to ascertain when it was present. According to Rhine, Gross was confident he could do this. The results for both were significantly below chance in purely-random runs, and somewhat higher than chance in runs where the state (water or no water) was held the same for multiple consecutive times.

In both sets of runs, both dowsers displayed the typical 'decline effect' found in psychic experiments, scoring higher towards the start and lower toward the end of the run (see [Decline Effect in Parapsychology](#)). Rhine notes that neither dowser was given feedback about their successes, a practice in psi research that was later decried by parapsychologist Charles Tart as likely to extinguish the effect in repetitive experiments.^[6]

Rhine noted that misses well below chance require a connection between subject and object no less than hits well above chance, while also ruling out normal means of knowledge, as the subject would presumably use them to score above chance. Following abundant indications that psi abilities are easily inhibited, he speculated that the dowsers may have been unconsciously opposed to testing or that they had been discomforted by an unfamiliar and artificial challenge.

Rhine recommended further research using a combination of field observation and controlled experiments, but this was not carried out.

Physiological Testing

In the early 1960s, psychiatrist BE Schwarz tested Gross with electroencephalography while he dowsed for water outside the laboratory and for hidden objects in the laboratory. Schwarz noted no measurable changes other than increased eye movement and muscle artifact. Using polygraph-style testing he found that Gross's heart rate and blood pressure increased while his respiration became irregular, consistent with a significant expenditure of energy. Anecdotally, Schwarz recorded notable dowsing successes during this testing.^[7]

In a study conducted by electrical engineers, Gross's skin potential was measured. The results during map-dowsing were inconclusive, but when Gross walked over a vein of water a change of 100 millivolts was noted, compared with a change of less than 10 millivolts when non-dowsers did likewise.^[8]

Criticism

Roberts was ridiculed for his claims regarding Gross, in newspapers, magazines, books and even by Roberts's friends. He was said to believe that Gross had 'rhabdomantic powers which, if only recognized and utilized, would flood the earth with life-giving waters and cause the deserts to blossom like the rose'.^[9] Some complained that his 'illogical and unscientific conjecture may do real harm'.^[10]

An attempt by Gross to locate water sources in Tikal, Guatemala in 1957 appears to have failed, according to authors EZ Vogt and Ray Hyman: water was not found at 520 feet when Gross had predicted it would be found at 499½ feet.^[11]

Martin Gardner

Gardner questions Gross's ability at length in a chapter on dowsing in *Fads and Fallacies in the Name of Science* (1957). Gardner accepts that Gross is neither a charlatan or hoaxer: 'He seems simple and sincere, completely baffled by his peculiar ability but at the same time intensely interested.' On the other hand, he continues, 'there is everything to suggest that Gross, without conscious awareness, is transmitting his thoughts to the dowsing rod or pendulum by unconscious muscular movements.' Apparent successes can be explained by Gross having learned from his work as a game warden to identify clues about the presence of water from environmental indications, Gardner states. Gardner further claims that successes seem more remarkable than they are, as 'water fairly close to the surface is far more plentiful than one might think, and the odds of finding it at shallow depth, at a spot picked at random, are in many regions very high.'^[12]

Against the claim of subconscious muscular action, initially put forward by JB Rhine, Roberts claimed that not only were no movements discerned in Gross's arms or hands when the rod dipped, but that he had 'brought a rod to life' in Roberts's own hands, and the hands of family members of a friend, scientist Horace Levinson, holding one arm of the Y-shaped rod while they held the other.

Kenneth Roberts's Books on Henry Gross

Henry Gross and His Dowsing Rod (1951). Garden City, New York, USA: Doubleday.

The Seventh Sense (1953). Garden City, New York, USA: Doubleday.

Water Unlimited (1957, published posthumously). Garden City, New York, USA: Doubleday.

Video

Gross may be seen dowsing in Tikal, Guatemala in 1957 [here](#) (colour, no sound), from the start to 3:06.

He appeared on the game show *To Tell the Truth* on Oct. 23, 1961. The episode can be seen [here](#) and his appearance begins at 15:04. It includes a dowsing demonstration with Gross holding one arm of the rod and a member of the panel grasping it tightly in an unsuccessful attempt to keep it still, starting at 21:36.

Archive

Kenneth Roberts' papers, including many concerning dowsing and Henry Gross, may be found in a collection held by Dartmouth University. See *Guide to the Papers of Kenneth Roberts, 1890-1972*.^[13]

KM Wehrstein

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Footnotes

1.^ Roberts, 1951, 1953, 1957.

2.^ Smith, 2015.

3.^ Dartmouth University (n.d.) Biography. Retrieved November 4, 2018 from https://ead.dartmouth.edu/html/ml25_biohist.html.

4.^ Hunt, 2015.

5.^ Rhine, 1950.

6.^ Tart, 1966.

7.^ Schwarz, 1962.

8.^ Hansen, p. 353.

9.^ Bergen Evans, cited in Bales, n.d.

10.^ Thomas M. Riddick, cited in Bales, n.d.

11.^ Vogt & Hyman, 1979, p. 201.

12.^ Gardner, 1957, p. 59 (retrieved November 20, 2018 <http://emilkirkegaard.dk/en/wp-content/uploads/Martin-Gardner-Fads-and-F...>

13.^ Dartmouth University (n.d.) *Guide to the Papers of Kenneth Roberts, 1890-1972*. Retrieved November 4, 2018 from https://ead.dartmouth.edu/html/ml25_fullguide.html

Attachments

[Kenneth Roberts and Henry Gross.jpg](#)

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