

## **“The Tornado Was Not the A-Bomb’s Child”: The Politics of Extreme Weather in the Age of Atmospheric Nuclear Weapons Testing**

Justin McBrien

### **Summary**

On June 9, 1953, the Worcester tornado obliterated its namesake town. The death toll was staggering, capping one of the most lethal tornado seasons to date. For many people across the country, the disaster confirmed their suspicions that the weather had gone haywire—and atomic bomb testing was to blame. In the 1950s, an international controversy raged concerning the possibility that nuclear explosions were triggering extreme weather like droughts, frosts, and tornadoes. The Worcester tornado became the most notorious example of “atom weather,” a disaster that seemed neither natural nor human, but one in which the two had become indistinguishable.

I have an interest in this planet and if our Frankensteins blow it to smithereens, Uncle Samuel better be prepared to face a king-sized lawsuit.

This warning appeared in a letter to the *Los Angeles Times* published shortly after the “Flint-Worcester Tornado Outbreak Sequence.” On 8 and 9 June 1953, two of the deadliest tornadoes in US history destroyed their eponymous towns in Michigan and Massachusetts. Both towns were outside tornado alley. Survivors in Worcester initially thought the disaster was the work of an atomic bomb. A “goodly proportion” of its residents would continue to suspect it was the culprit, but not because they believed the destruction was the result of an enemy attack. It had been friendly fire—an atomic bomb test that took place on the other side of the continent a day before. In fact, nearly a third of the American public blamed the tornadoes on the bombs bursting in air somewhere in the Nevada desert.



1953 Map depicting tornado strikes and their proximity to the Nevada testing grounds.

Originally published in the *Worcester Evening Gazette*, 11 June 1953.

Courtesy of Google Historical Newspapers.

Accessed on 11 July 2019. Click [here](#) to view source.

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The Worcester tornado was the most infamous case of a controversy in the 1950s over the potential effects of nuclear weapons testing on weather and climate—a menacing phenomenon people referred to most often as “atom weather.” Tens of thousands of letters from people convinced atomic testing was responsible for the extreme weather of the time flooded the offices of scientific experts at the Atomic Energy Commission (AEC), the United States Weather Bureau (USWB), and the World Meteorological Organization (WMO).

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## 85 KILLED, 800 INJURED IN CITY'S WORST DISASTER



DEBRIS LITTER GREAT BROOK VALLEY AND TELLS THE TALE OF THE TWISTER



STROCKEN AREA RESIDENTS LINE UP ON BURNOAT STREET FOR PASSES TO DAMAGE ZONE

### Tornado Toll Estimates

DEAD, 85, may go to 125.  
INJURED, 800, may go to 1000.  
Buildings destroyed or damaged, 2000.  
HOMELESS, 15,000.  
WORCESTER DAMAGE, \$40,000,000 to  
hoses, automobiles and furnishings.  
TOTAL DAMAGE, \$45,000,000.  
TELEPHONES knocked out, 7000.  
AUTOMOBILES wrecked, 2000 in Wor-  
cester.

COMMUNITIES hit: Worcester, Holden,  
Shrewsbury, Petersham, Barre, Rutland, Grafton,  
Westboro, Westham, Southboro, Templeton  
and Fitchburg.

The Worcester chapter of the American Red  
Cross made this estimate of damage in area  
communities.

WORCESTER: 1000 homes demolished and  
2000 requiring major repair at total damage of  
\$14,000,000. Also \$10,000,000 damage to indus-  
trial, governmental and educational buildings,  
2000 cars, \$2,000,000 damage; damage to fur-  
nishings in 5000 homes, \$10,000,000 damage.

SHREWSBURY: Total damage to homes,  
destroyed or partially wrecked, \$1,000,000.

HOLDEN: Same as Shrewsbury.

RUTLAND: \$1,000,000 damage to homes.  
A preliminary estimate of damage for the  
following towns was provided by State Depart-  
ment of Public Works engineers:

WESTBORO, \$2,500,000.

NORTHBORO, \$1,000,000.

SOUTHBORO, \$250,000.

BARRE, \$200,000.

Alfred W. Smith, president of the Worces-  
ter County Electric Co., who surveyed the path of  
the tornado, said it inflicted damage in a belt  
from one quarter to one-half mile wide.

By THOMAS E. SWEENEY

The bill of dead today had climbed to 85 in a tor-  
nado that struck savagely and suddenly to make a chap-  
ter of a disaster story in Worcester County.

In the wake of the twister, the most disastrous in  
New England history, tragedy and destruction were re-  
vealed in a form not familiar in this part of the country.

Houses by the hundreds were flattened, brick build-  
ings were blown in sections, one brick pile.

Thousands Are Homeless

Property damage is in the millions and thousands  
are homeless.

Front page of the *Worcester Evening Gazette* the day after the disaster.

*Worcester Evening Gazette*, 10 June 1953.  
Courtesy of Google Historical Newspapers.

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The ensuing uproar in the wake of the tornadoes made AEC experts duck for cover. Atom weather panic undermined public confidence in their assurance scientific experts could control any of the environmental risks from nuclear testing. Government meteorologists repeatedly denied the possibility, arguing the bomb was “puny” when held up against the awesome powers of nature. Dismayed with the invective hurled toward him and his colleagues, Lester Machta, head of the Special Projects Division of the USWB, quipped how curious it was that no one had yet blamed a nuclear explosion for a sunny day.

Many people did not find these types of quips amusing— they felt the AEC’s attitude toward the public was “deprecating,” “pontificating,” and “smart-alecky.” Growing demands that the AEC be held accountable for the disaster prompted a Massachusetts congressional representative, Edith Rogers, to file a resolution calling for a congressional inquiry. The House Committee on Armed Services held a hearing to consider Rogers’s motion on 23 June, in which statements from all the branches of the Armed Forces, the Federal Civil Defense Agency, and USWB unanimously agreed that there was no connection between the two. The committee denied the motion.

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Photograph of Worcester in the aftermath of the tornado's destruction.

Originally published *National Academy of Sciences National Research Council Committee on Disaster Studies*, 1956. US Government report.



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The hearing did little to abate public fears. Further contributing to the summer's atmospheric anxieties was the legal turmoil surrounding a burgeoning weather modification industry. Wildcat "rainmakers" promised desperate farmers they could alleviate the long western drought using the recently invented technology of cloud seeding, a technique used to induce artificial precipitation through the nucleation of clouds with silver iodide or dry ice. Spectacular claims by its publicity savvy co-inventor, the Nobel laureate chemist Irving Langmuir, primed the public to believe the practice was already altering the weather on a continental scale.



**Alongside Nature's great disturbances, an atom explosion is but a local shower.**

Cartoon reassuring readers that no atomic explosion could possibly rival the power of a tornado.

Cartoon by Roy Doty, 1951.

This cartoon was originally published in *New York Times* on 21 October 1951.

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While there were analogical similarities between atom weather and cloud seeding, there were crucial differences. Cloud seeding at least promised potential benefits. The benefit of exploding bombs laced with deadly radiation was far murkier. More importantly, possession of atomic weapons was the exclusive purview of a “cult of Q-clearance” that enjoyed a complete monopoly on its research. This led farmers’ associations, such as the Cherry Growers of Beaumont, CA, to pool their resources and commission their own citizen science research, hoping to provide sufficient evidence to demand the AEC no longer detonate first and ask questions later.

The USWB’s meteorologists finally relented to public pressure and launched an in-depth research program in 1955. Most of their conclusions remained agnostic—the time frame of the bomb’s existence was too short to analyze its effects against long-term meteorological data. By the end of the decade, however, many of these scientists would admit that the possibility was not as far-fetched as they had previously imagined.

**THEY BLAME  
ATOM BOMB**

A city in Brazil declared that the atom bomb in Bikini, 7000 miles away, completely changed their weather.

The lady of the house who finds the replenishing of her larder difficult these days may blame many things, but not the atom bomb so far. Each Branch of Johnston's Stores appreciates her difficulties and does all in its power to mitigate them.

**BRING YOUR NEW RATION BOOKS  
NOW TO**

**KINGSWAY  
BREAD**  
One of the many fine products of Kingsway Bakery.

*Johnston's  
Stores*  
There's a Branch near YOU in Dundee or District.

Printed and Published in Great Britain for the Proprietors by D. C. Thomson & Co., Ltd., Dundee.

Ad for Kingsway Bread making light of complaints concerning “freak weather” during the first postwar nuclear test series in July of 1946, Operation Crossroads.

*Dundee Evening Telegraph and Post*, 12 July 1946.



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The farmers and their allies won the war of public opinion. A poll released in 1958 showed Japan, Brazil, and many European nations also believed atomic explosions were responsible for the “freak” weather of the time. But what was most important about atom weather was not verification of its existence. The atom weather controversy precipitated an early crisis concerning expert authority, democratic accountability, and who would have the right to determine the ecological health of the planet.

The record-breaking stretch of tornadoes that plagued the American Mid-West last spring, the question once more emerges concerning the attribution of human influence to the growing frequency and strength of these extreme weather events. Perhaps it is impossible to definitely determine a link with any individual weather event, but there is no uncertainty that anthropogenic climate disruption has fundamentally altered the planetary biosphere.

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Atom weather was a metonym that marked the birth of this new epoch—the Anthropocene. Its union of the deep time legacy of radioactive toxicity with the global chaos of rapid climate change presaged a new age where human and natural disaster would become indistinguishable. Humanity would now have to grapple with its newfound planetary agency, one whose consequences threatened the future of the atmospheric commons, and with it, the future of life on earth.

### Arcadia Collection:

[Technology and Expertise](#)

### Further readings:

- Dorries, Mathias. “The Politics of Atmospheric Sciences: “Nuclear Winter” and Global Climate Change.” *Osiris* 26, no. 1, *Klima* (2011): 198–223.
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- Hamblin, Jacob. *Arming Mother Nature: The Birth of Catastrophic Environmentalism*. New York: Oxford University Press, 2013.
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- Machta, L., and D. L. Harris. “Effects of Atomic Explosions on Weather.” *Science* 121, no. 3134 (1955): 75–81.
- Masco, Joseph. “Bad Weather: On Planetary Crisis.” *Social Studies of Science* 40 (2010): 7–40.
- Wallace, Anthony. *Tornado in Worcester: An Exploratory Study of Individual and Community Behavior in an Extreme Situation*. Washington, DC: National Academy of Sciences National Research Council, 1956.

### Related links:

- Video of atomic test, “Climax,” believed to have caused the tornado  
<https://www.youtube.com/watch>
- Video “Tornado in New England” by Marvin Richmond, 1953.  
<https://www.youtube.com/watch>

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**About the author:**

**Justin McBrien**

Justin McBrien is a PhD candidate in global environmental and modern US political history at the University of Virginia and National Fellow at the Jefferson Scholars Foundation. His dissertation, “Making the World Safe For Disaster: Nuclear Weapons Testing and the Politics of Climate Change,” traces the evolution of the atom weather controversy during the early Cold War era in order to highlight the contributions of non-expert actors in the formation of ideas and debates surrounding the politics of anthropogenic climate change. He is currently preparing a manuscript, “Necrocene: The First Extermination Event,” based on his chapter in the 2016 book volume, *Anthropocene or Capitalocene? Nature, History, and the Crisis of Capitalism*.