

# PHYSICIANS FOR SOCIAL RESPONSIBILITY

26-3  
(12-8-81)

23 Main Street, P.O. Box 144, Watertown, Massachusetts 02172 • (617) 924-3468

**RECEIVED**  
OFFICE OF THE MAYOR

Sacramento Area Chapter  
59 Sandburg Drive  
Sacramento, CA

DEC - 7 1981

AM

PM

November 13, 7 8 9 10 11 12 1 2 3 4 5 6

Dear Mayor Isenberg,

As you are aware, the City of Sacramento has been advised of a plan for mass evacuation of the Sacramento area in case of impending nuclear attack on the United States. This plan has been devised by the State of California Office of Emergency Services under the direction of the Federal Emergency Management Agency.

The Sacramento Chapter of Physicians for Social Responsibility, an organization dedicated to the prevention of nuclear war, is concerned that this plan:

- 1) Is demonstrably ineffective.
- 2) Misleads the citizens of Sacramento into believing that it is workable and provides protection from the effects of nuclear war, which it does not.
- 3) Diverts attention from the only effective means of dealing with nuclear weapons - prevention of nuclear war and reduction of nuclear weapons stockpiles.

Therefore, we ask you to meet with us to discuss this plan. We oppose it strongly and urge public dialogue on the issue at a meeting of the Sacramento City Council.

Enclosed is an example of an approach taken by the City of Cambridge, Massachusetts when asked to implement the mass evacuation plan. The City Council chose to prepare this pamphlet describing the effects of a nuclear explosion on the City and pointing out the problems of relying on a mass evacuation plan.

Sincerely,

*Neil M. Flynn MD*  
Neil M. Flynn, M.D.  
453-0322

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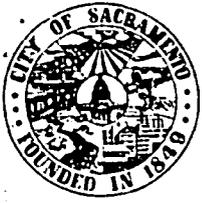
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# CITY OF SACRAMENTO

12-581  
# 26-3

## OFFICE OF THE CITY CLERK

915 I STREET  
CITY HALL ROOM 203

SACRAMENTO, CALIFORNIA 95814  
TELEPHONE (916) 449-5426

LORRAINE MAGANA  
CITY CLERK

### MEMORANDUM

TO: WALTER J. SLIPE, CITY MANAGER  
FROM: LORRAINE MAGANA, CITY CLERK  
SUBJECT: REFERRAL OF ITEM NO. 26-3,  
COUNCIL AGENDA OF DECEMBER 8, 1981  
DATE: DECEMBER 11, 1981

Pursuant to Council action, the following subject matter is referred to you:

Letter from Physicians for Social  
Responsibility re Mass Evacuation  
Plan for Sacramento Area [ISENBERG]

MM/LM/mm

cc: Fire Department  
Police Department

# Cambridge and Nuclear Weapons

~~Is there a place to hide?~~

# Cambridge and Nuclear Weapons

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## **Physicians for Social Responsibility**

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Watertown, Massachusetts 02171  
924-3468

## **Science for the People**

897 Main Street  
Cambridge, Massachusetts 02139  
547-0370

## **Union of Concerned Scientists**

1384 Massachusetts Avenue  
Cambridge, Massachusetts 02138  
547-5552

## **University Christian Movement**

11 Garden Street  
Cambridge, Massachusetts 02138  
354-6583

## **U. S. Peace Council**

P. O. Box 426, Astor Station  
Boston, Massachusetts 02123  
969-5571

## **Women's Party for Survival**

56 North Beacon Street  
Watertown, Massachusetts 02172  
923-9542

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## Draw your own conclusion. Take action.

You may or may not agree with the City Council, but try and reach your own conclusion. Do not assume that someone else can be smarter than you are about this. Tell your City Council and School Committee members what else you think they should do. Tell President Reagan, Congressman O'Neill, and Senators Kennedy and Tsongas what you think they should do.

There are also concerned groups and organizations which you can contact:

**American Friends Service Committee**

2161 Massachusetts Avenue  
Cambridge, Massachusetts 02140  
661-6130

**The Catholic Connection**

27 Isabella Street  
Boston, Massachusetts 02117  
482-6295

**Council for a Livable World**

11 Beacon Street  
Boston, Massachusetts 02108  
742-9395

**Council for a Nuclear Weapons Freeze**

2161 Massachusetts Avenue  
Cambridge, Massachusetts 02140  
491-7809

**Educators for Social Responsibility**

25 Kennard Street  
Brookline, Massachusetts 02146  
734-1111 ext. 335

**Institute for Defense and  
Disarmament Studies**

251 Harvard Street  
Brookline, Massachusetts 02146  
734-4216

**Jobs With Peace**

10 West Street  
Boston, Massachusetts  
451-3389

**Lawyers Alliance for Nuclear Arms Control**

P. O. Box 9171  
Boston, Massachusetts 02114  
227-0118

**Mobilization for Survival**

13 Sellers Street  
Cambridge, Massachusetts 02139  
354-0008

## Why should I read this booklet?

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This booklet is about something unpleasant and frightening: nuclear war and the death and destruction of all that you treasure. The danger is real. The risks are great. You should read this booklet because you will learn what is at stake. Then you can decide what you wish to do about it.

## Why did the city council order that this booklet be made?

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After holding a hearing on this subject and learning the kinds of things described here, members of the Cambridge City Council felt a sense of disbelief, despair, and anger — much the same feelings you may have after reading this booklet. They concluded, as you may conclude, that “the sole means of protecting Cambridge citizens from nuclear warfare would be for nations with nuclear arms to destroy those arms and renounce their use”. The City Council felt a deep responsibility to make the citizens of Cambridge aware, as it had been made aware, of the chances for survival from a nuclear war and so ordered that this booklet be written.

## What this booklet describes.

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This booklet is in five parts. The first three describe who has or might get nuclear weapons, how many there are, and how powerful those weapons can be; what would happen if a single nuclear weapon were to strike our city; and what a full-scale attack on our country would mean for us. Worse things could happen about which we can hardly guess. Some of those are described in the fourth part. We have the power to prevent these terrible things from happening. The last section describes what we can do.

## What a nuclear war would do.

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What if an enemy attacked the United States with only 1/20th of the weapons that could be used against us? One U.S. government study described the effects on Massachusetts:

Right after the attack there would be 3,200,000 killed or injured — over ½ the population. In the long run many more people would die from injuries, exposure to radiation, lack of food, water and adequate shelter.

There would be little medical care and few facilities for the hundreds of thousands of people with burns, or suffering from radiation sickness, blast effects, shock, or other injuries. Epidemics of plague, typhus, cholera, or other diseases would break out.

There would be serious shortages of food with stocks largely destroyed and little hope of replacing them. Children, the elderly and the sick would suffer the most. Others would find their effort to survive and recover hampered by the lack of food.

There would be widespread destruction of homes and schools. People would not be able to return home for weeks, months, or even years. Basic services such as sanitation, fire, police, and even sewage disposal and water supply would be severely disrupted. There would be severe energy shortages. Economically, Massachusetts would be virtually destroyed.

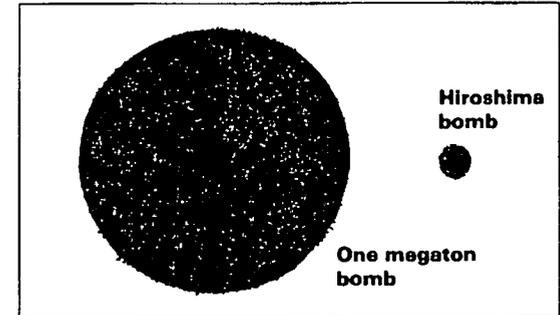
## The worst may be unknown.

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What is likely to happen is horrible; what can't even be guessed at could be worse. This was the conclusion of an important U.S. government study of the effects of nuclear war. It's almost impossible to calculate what would happen to our environment — air, water, plants, trees, animals, etc. More serious, society as we know it might collapse under the combined pressure of massive death and destruction, fear, despair, conflict and anarchy.

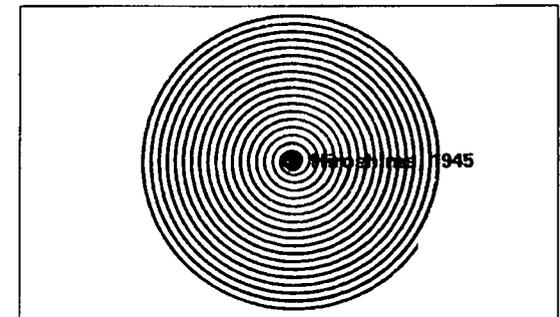
Each nuclear warhead is, of course, extremely powerful. The explosive power of a bomb or warhead is described by the word "megaton". A one-megaton bomb would have the explosive power of one million tons of TNT. The bombs which destroyed the Japanese cities of Hiroshima and Nagasaki to end World War II had the explosive power of only 10 to 20 thousand tons of TNT. *So a one-megaton bomb — the size of the kind which could hit us — is about 50 to 100 times more powerful!*

**A one-megaton bomb (large circle) has about 70 times the explosive power of the bomb dropped on Hiroshima (small circle). 68,000 people were killed, and 76,000 injured by the Hiroshima bomb.**

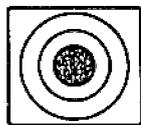
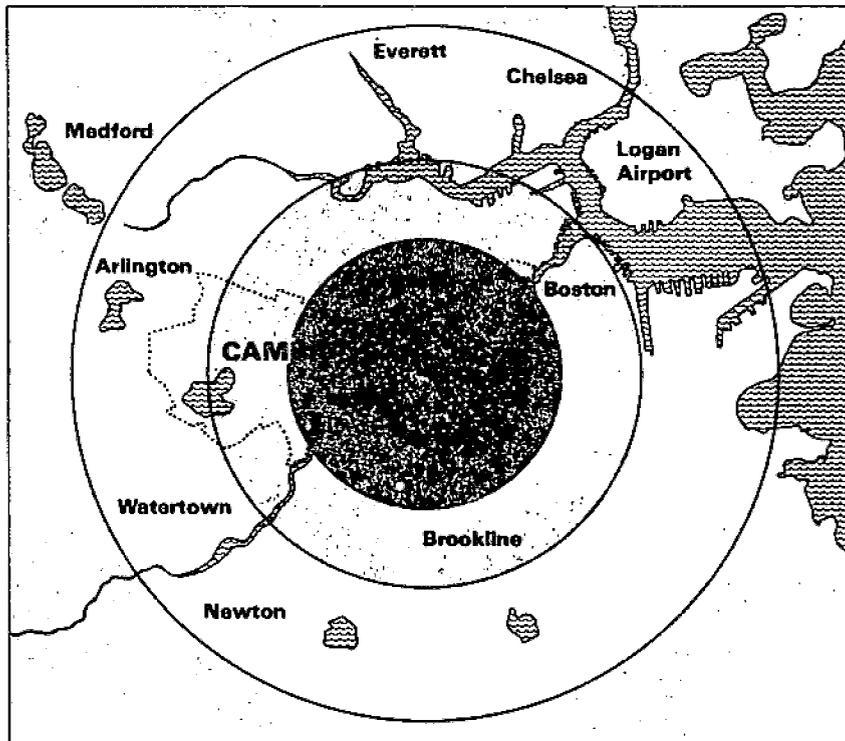


Altogether the United States and the Soviet Union have so many megatons of nuclear weapons that in a war they would produce nearly 1,000,000 times the explosive power used against Hiroshima. This doesn't include all the smaller, so-called tactical nuclear weapons each side has, or the nuclear weapons held by all those countries mentioned above. As the sections that follow show, it means that if a nuclear war were started — by accident or on purpose — by a superpower, or another nation or group — the destruction would be beyond anything ever before experienced by the human race.

**The total destructive power of the nuclear weapons located throughout the world is more than *one million times* that of the bomb which destroyed Hiroshima.**

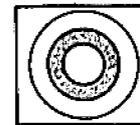


# What one nuclear weapon would do to Cambridge.



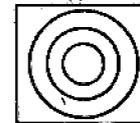
## **If You Were In Cambridge (0.0 to 1.7 miles from the bomb)**

Suppose a one-megaton bomb were dropped near ground level over Cambridge City Hall. Almost all Cambridge citizens would be killed. City Hall, the Central Square Post Office, and the YMCA and YWCA — all would disappear into a crater about 20 stories deep. A rim of deadly radioactive soil would be thrown up twice as far as where the Police Station, the City Hall Annex and the Manning Apartments for the elderly had been. Nothing recognizable would remain from the riverfront to City Hospital. Little of significance would be left standing in the rest of the City. This "end of the world" as we know it would occur within seconds.



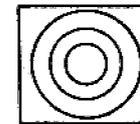
## **If You Were Further Away (1.7 to 2.7 miles from the bomb)**

Suppose you were away from Cambridge — doing errands, visiting a friend at work — outside this circle of complete and immediate devastation. Imagine that you were one of a group of 10 persons, in Watertown (or Brookline or downtown Boston). Half would die and four of five of you would be injured. Of the survivors of the blast as many as half might ultimately die from burns. Others would die, sooner or later, from exposure to radiation. If it were downtown Boston, tall buildings would collapse and fill the streets with debris. Most automobiles, police cars, buses and firetrucks would be destroyed.



## **If You Were Still Further Away (2.7 to 4.7 miles from the bomb)**

Imagine instead that you were fortunate to be further away from Cambridge, working in Revere, Everett, or Forest Hills. Even at that distance half the people would be killed or injured. Most of the planes and hangars at Logan Airport would be destroyed. Factories would be severely damaged. Buildings would lose their windows and frames and interior partitions. The contents of upper floors would be blown out and walls would crack. Debris in the streets would prevent vehicular traffic. Fires would spread throughout much of the area and burn for at least a day, destroying at least half the buildings. Under certain circumstances a vast "firestorm" might occur, burning out of control at temperatures of thousands of degrees. Where this happened so much air would be sucked up that thousands of people would die from lack of oxygen.



## **If You Were Even Further Away**

For up to hundreds of miles away, depending upon wind patterns, the nature of the bomb, and other factors, radiation would kill thousands more. The radiation would be spread by tons and tons of particles of contaminated soil and debris floating and drifting away from the blast area. The deaths would be rapid or slow and would include unborn generations due to the effect of radiation on genetic characteristics. For many of those who survived, the recovery would be long and painful, perhaps with permanent disability.