

Time and Space Called Best A-Bomb Defense For Cities of 1 Million

Experts Figure Limit on Casualties To Three Miles Within Area of Burst

The Defense Department has received a blueprint for setting up a vast civil defense program in the event of atomic war. The subject has been worrying officials ever since Hiroshima. Next Congress probably will be asked to do something about it. Because the great majority of casualties would be civilians, not soldiers. This dispatch tells what would happen to the people of a target city. It is based on official reports and on published statement by atomic experts.

By JOSEPH L. MYLER, United Press Staff Correspondent
WASHINGTON, Nov. 24 — There are two absolute "defenses" against the atomic bomb.

They are time and space. All of us are absolutely safe from the bomb until an enemy gets it and decides to use it against us. It may be a year from now or 10 years before another nation has bombs.

Atomic officials say nobody outside Russia really knows.

And if an enemy gets the bomb and uses it in atomic war, many millions of Americans still will be individually safe, thanks to space.

The bomb is no continent wrecker. At Bikini, persons aboard ships only nine miles from the burst felt only a slight thump. At a distance of two miles the chances of direct injury would have been fairly slight.

Nobody is safe. And, according to the National Security Resources Board, even the latest thing in atomic bombs, the improved weapons tested at Eniwetok last spring, can kill and destroy directly over a distance of no more than three miles.

But within that three-mile radius, no human being, dog, cat or insect would survive without injury, but none could absolutely bank on it.

Say the target is a city of 1 million. Say the bomb goes off at 2500 feet, the altitude from which it can do the most damage to the greatest area. The Office of Civil Defense Planning says the casualties would number about 100,000.

Thousands will never know the bomb exploded. They will be dead before they know. Among the others, thousands may think they survived without injury because they felt no wound.

But the atomic bomb is not just a bomb. It kills in many ways—in a split second or a matter of weeks. It is a triple-threat weapon, killing with blast, fire and poison.

In the split millionth of a second the bomb floods the target with blinding light and killing multi-million degree heat.

Quickly following are a crushing shock wave and a thousand-mile-an-hour wind. A white-hot fireball expanding from the center of the burst ignites everything inflammable which it touches.

The uprushing atomic cloud mushrooming over the city is followed by a "firewind" generated

by the conflagration spreading out from "ground zero," the target point. In the first split second, deeply penetrating neutron and gamma rays will have flashed in all directions.

Thousands of persons far enough away to escape death by blast or flash or fire will die of "ionizing" radiation. Depending on dosage, death is quick or slow.

The statisticians say that of the 100,000 casualties, 40,000 will be fatal. Of the 40,000, half will be killed outright. The other 20,000 will die later of radiation sickness.

There will be 60,000 non-fatal casualties, with 20,000 serious cases in the first week. The other cases will develop over a period of three weeks.

The peculiarly atomic casualties are those caused by radiation. Persons not killed outright sicken in three to 21 days. Symptoms include general weakness, nausea, vomiting, steady fever, loss of hair, reddening of the skin, loss of appetite, bloody diarrhea, hemorrhage, and a drop in the white blood cell count.

Victims may be saved if the radiation dosage has not been too great. Whole blood, penicillin, and anti-hemorrhage drugs like rutin may help.

Rain Called Off For Thanksgiving

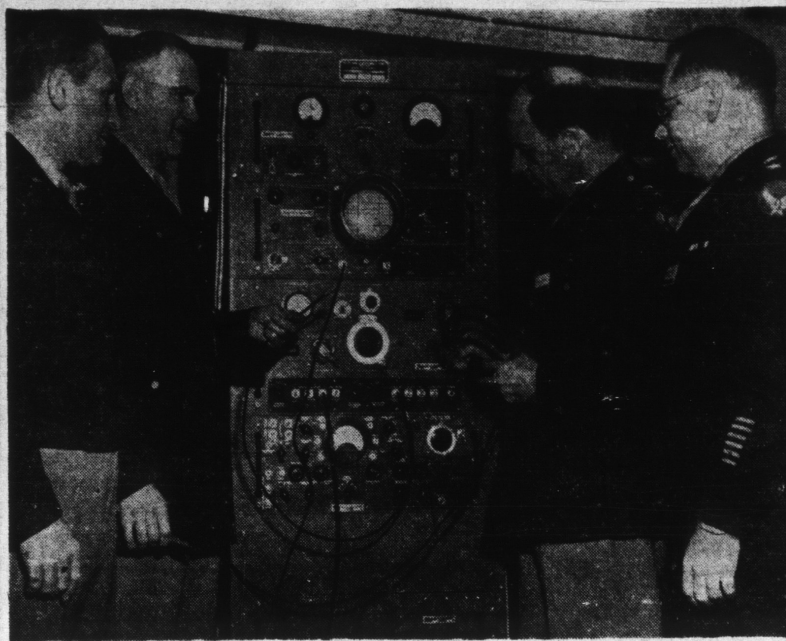
No rain is expected to fall on Indianapolis and Marion County tomorrow, Thanksgiving Day, according to a revised estimate from the Weather Bureau.

A previous forecast had called for rain to accompany the turkey. It now appears that only a portion of northwestern Indiana will have any precipitation tomorrow.

The heavy smog which has blanketed the city for several days will partially clear this afternoon, the weatherman said, although clouds will remain through tomorrow.

A high of 45 degrees today should fall only to 35 tonight, and rise tomorrow to a slightly warmer 48-50. Last night's low was 29 degrees.

Big Brass Descends on Air Equipment Show



Stars glittered in the Civil Aeronautics Administration Experimental Station at Municipal Airport when a high-ranking cluster of Air Force brass from Washington, D. C., dropped out of the sky yesterday to inspect the all-weather flying devices being shown by the Radio Technical Committee on Aeronautics. Looking at a complex piece of electronic navigation equipment which will have a part in making flying virtually automatic in years to come are Maj. Gen. L. P. Whitten, F. O. Carroll, G. Gardner and F. L. Ankenbrandt.

Honesty Just Doesn't Pay —Not to a Virtuous Valet

Chicagoan Finds \$200,000 in 19 Years, But His Biggest Reward Was a Tiny \$20

CHICAGO, Nov. 24 (UP)—Fred Johnson figured up today that in his 19 years as a hotel valet he has found \$200,000 in the pockets of clothes handed him by customers.

And every cent of it has been returned, Mr. Johnson said. Mr. Johnson found his biggest reward Tuesday—\$23.75 left in a waistcoat by a visiting showman when he sent it to the 43-year-old valet to be cleaned. There was \$5000 in cash and a check for \$18,752.12.

The man handed Mr. Johnson \$20 as a reward. That was the biggest reward he's ever received.

Once, he said, a man gave him exactly \$1 for the \$3500 Mr. Johnson found in his clothes. But that was all right with Mr. Johnson.

"Doesn't make any difference about the reward," he said. "Why some folks have just said 'Thank you' when I gave them back as much as \$500."

"I don't mind. It's the principle. It just wouldn't be right for me to keep any of that money. You've got to be able to live with yourself."

Mr. Johnson said he hasn't found much money in women's clothes in recent years. "You see the dresses women wear these days," he said. "How in the world could they lose any money in them?"

Breaks Leg in Fall

W. H. Richards, 310 N. Delaware St., is in General Hospital with a broken leg, received when he fell down a flight of steps Sunday night.

Mother Who Slashed Babies Ruled Insane

WELLSTON, O., Nov. 24 (UP)—Mrs. Marcella B. Hudson, 25, was committed to the state hospital for the insane today after she slashed the throats of her two small daughters and attempted suicide in a fit of despondency over the destruction of their home by fire.

Mrs. Hudson cut the throats of Judy, 3, and Jean, 5 months, with a razor blade and then tried to slash her own throat Monday night.

Doctors said Judy may live but Jean had only a slight chance of recovery. Mrs. Hudson was only slightly injured.

Plans Made for Indiana's Own ERP

Hoosier Food Train To Leave Next Month

Plans for a Hoosier food train for Europe as Indiana's contribution to the Christian rural overseas program were completed today.

Dennis Anderson, New Castle, Indiana crop chairman, said a 256-car special train loaded with corn, wheat and soybeans would be assembled and dedicated here Dec. 20, before heading East.

Mr. Anderson said inter-church organizations throughout the state were working to obtain contributions of grain and cash for the train "as fast as possible" so the train could be on its way before Christmas.

Meanwhile, Gov. Gates proclaimed this week "Crop Week" in Indiana. Gov. Gates urged Hoosiers, particularly farmers, to "contribute to the welfare of the less fortunate." He said "This Thanksgiving week is a fitting time for us to pause and reflect on the privileges that are ours."

U.S. 30 Relocation Work to Be Let

Three contracts for the relocation of US 30 from Warsaw to Columbia City will be among the six highway construction contracts let Dec. 9, the State Highway Commission announced today.

Planning for this change has been in progress for a year and a half, and has been delayed by negotiations to purchase right-of-way property. The three contracts will involve nearly 17½ miles of highway and would provide that the new strips be 22 feet wide and constructed of reinforced concrete.

Bids will also be received for the concrete paving of a section of State Road 32 and 47 in Crawfordville, and a section of the Kokomo bypass on US 31. Contracts for reinforced concrete paving of a strip of highway from Smyth to Caney Creek in Vanderburgh County and a section of US 31 north of Kokomo will also be let.

High Costs Make It More Difficult To Be Good Sport

Hoosier hunters and fishermen will have to carry a license for each of the popular outdoor pastimes, if proposals of the State Department of Conservation are approved by the 1949 General Assembly.

John H. Nigh, State Conservation Commissioner, said he would recommend that the dual-purpose hunting and fishing license now offered to residents sportsmen for \$1.50 a year be abolished by the state Legislature.

IN ITS STEAD, Mr. Nigh proposed a \$1 fishing license and a \$1.65 hunting permit. Special fishing licenses for women, now sold for 50 cents, would no longer be issued, Mr. Nigh said. He made no mention of the fate of the special veteran's fishing and hunting license.

Annual Farm Safety Parley Is Scheduled

The seventh annual Indiana Farm Safety Conference will be held Dec. 28 at Purdue University during the winter agricultural conference, it was announced yesterday at a luncheon of the Indiana Farm Safety Committee in the Severin Hotel.

Paul Jones, director of public information for the National Safety Committee, speaking in the meeting, said, "Human nature and willingness to take a chance constitute the main cause of farm accidents as well as accidents in married couples. Dance co-chairmen, on the highway and in the factory."

Safe Robbers Here Net \$1587 Loot

Breaks-Ins Reported By 3 Businesses

Two break-ins at business establishments netted burglars an estimated \$1587 in cash and checks today.

A cashbox containing \$1000 in cash and checks was missing from the Advance Plating Co., 330 Orange St., when employees opened the office this morning.

At about the same time a break-in was discovered at the Harlem House Restaurant, 602 N. Senate Ave. Burglars carried away a safe containing \$587, the manager told police.

A break-in also was reported at the Shell Filling Station, 1810 S. Sheridan St. An automobile guide light was taken.

Swedish Bus Accident Kills 15 Passengers

STOCKHOLM, Nov. 24 (UP)—At least 15 persons were killed today when a truck hit a bus and knocked it off a bridge between Stora Essingen and Lilla Essingen islands, near here.

Company officials said the exact number of fatalities would not be known until the bus was raised from its resting place in 48 feet of water.

CYO Dance Friday

The senior section of St. Philip's Neri CYO will hold a dance from 8:30 to 11:30 p. m. Friday in St. Philip's Hall, 545 Eastern Ave. The Rhythmaires will play. The main cause of farm accidents as well as accidents in married couples. Dance co-chairmen are Miss Mickey McCarty and Jim Traub.

STRAUSS SAYS: TRADITION WITH A TOUCH OF TOMORROW



READ ALL ABOUT IT!

Bob (Birdie) Long interviews 4 of Indianapolis' leading Chefs—on how to carve a Turkey!

Bob Long—is a free lance writer—that we call on occasionally—to cover special assignments that are rather foreign to us (and to him!)

HENRY BICK, Chef, Indianapolis Athletic Club: "Be delicate about it. First, hack his legs off up about the armpits—that'll keep him from trotting too far down the table. Then, break his back, and scoop out the 'oyster.' (Poultry parlance for tender tidbits in the small of the back.) Clip his wings at the socket. Pull his wishbone back and do likewise. Now, he's ready for surgery, so whip out the slicer weapon. From here on you're on your own. Remember, thick slices for everybody—after all, you only paid for it."

FRED W. HAYER, Chef, Claypool Hotel (Loosely quoted): "It all depends on where I'm working. Here, I shave his back so he'll stand up nice and straight. Then I separate him from left leg and begin to carve away. From there on, I'm pretty conventional. At home, though, they don't know I'm an authority. The kids grab the drumsticks, the little woman and the relatives cabbage onto the white meat, and the dog spears for the piece that went over the fence last. Me, I'm off in a corner chewing away at an old salmon sandwich."

GENE ROBERT KIEFFER, Chef, Lincoln Hotel: "Never cut straight down on the breast. That's bad. Approach it from a 45-degree angle. (Here, do one of two things: Slant the turkey at the correct angle or have Junior hold you by your trouser cuffs at the proper tilt.) And finish one side before starting on the other. Actually, a turkey breast should be cut to order. Otherwise, it dries out. And mighty important to cut against the grain, too. (That is, unless you're opposed to going against anybody's grain.) You get better slices that way, and the turkey lasts longer, too."

HENRY H. VANBENTEN, Chef, Columbia Club: "Be sure he's well baked. Start him off in a hot oven, otherwise he'll shrink on you. (Start out with a turk and you're liable to end up with a sparrow, that's wot.) The rest is a matter of direction. Cut against the grain and be sure to have his legs facing away from you. (If you have a compass handy, place the bird so the south end is facing north.) We thought we'd be roasting roosters in our kitchen this November," said he, with a political twinkle in his eye, "but something went wrong."

ANY OLD TURKEY: "Personally, I'm against the whole thing."

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Indianapolis, Ind.—Roy Gale Motors, Inc., 3815 E. Tenth St.
Indianapolis, Ind.—Snider Auto Service, Inc., 3757 N. Illinois St.
Cumberland, Ind.—Cumberland Garage, Washington Street.

Greenfield, Ind.—Leary's Service, 901 E. Main St.
Anderson, Ind.—Russ Regenold Motors, 1510 S. Main Street.
Elwood, Ind.—Tolle Motor Co., 1324 W. Main St.
Frankfort, Ind.—Walter Motor Sales of Frankfort, Ind., 300 N. Jackson Street.
Greencastle, Ind.—C. A. Webb, 28 S. Jackson St.
Bloomington, Ind.—Harry Stephens & Co., 311 South Walnut St.
Danville, Ind.—Alexander Garage, 115 South Jefferson Street.

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In Indianapolis

EVENTS TODAY
Lecture, Contemporary American Literature—7 p. m., IU Extension, 122 E. Michigan St.
Lecture, Masterworks of English Literature—8:15 p. m., IU Extension, 122 E. Michigan St.

EVENTS TOMORROW
Thanksgiving—All public offices closed.

MARRIAGE LICENSES

Howard A. Law, 24, 1639 English; Betty Ruth Durham, 22, 3009 Lockport; Walter B. McAttee, 19, 1735 N. Leslie; Sharon Swisher, 18, 44 N. Keystone; Russell A. Barber, 22, 1042 S. Paul; Loyce D. Alderson, 19, 1118 Fletcher; Don Garnett, 18, 1128 Bellefontaine; Fay Lewis, 18, 631 Russell; Armand A. Daleski, 422 Prospect; Kathryn E. Quinn, 18, Latrobe, Pa.; Garnett Herndon, 21, 1114½ Newman; Frieda Watkins, 24, 1114½ Newman; Rex Wallace Mosier, 22, 1350 Nordyke; Joanne Ford, 20, 820 Coffey; George Oliver Browne Jr., 25, 324 E. 37th; Roberta Richter, 31, 2389 N. LaSalle; Raymond Edwards, 30, R. R. 11, Box 8; Martha Elizabeth Dillon, 19, 1691 Broadway.

Charles Washington, 55, New Berlin; Ann Thon, 46, Springfield, Ill.; Morris Dennis Carter, 21, Belleville; Rosemond Jean Dillon, 22, Monrovia; Donald H. Haig, 22, 1914 Shannon; Jackie L. McDaniel, 18, 308 S. Spencer; Marvin Galt, 18, 431 W. 16th; Place; Laura Cummings, 17, 930 W. 27th; John Thomas Prichard Jr., 31, 2034 N. Delaware; Betty Jane Chadwick, 26, 3038 N. Delaware.

William W. Graves, 24, 1812 E. 59th; Anne C. Byrne, 19, 5743 N. New Jersey; William N. Haasler, 22, Louisville, Ky.; Constance Randolph, 21, 2630 N. Olney; Garnett W. Hill, 23, 629 W. 9th; Vernon Allen, 19, 2623 Bethel; Levi Savage Jr., 45, 139 S. Catherine; Vivian Richardson, 19, 1039 S. Catherine; Basil M. Crismore, 22, 946 N. Meridian; Rosemary M. Zeller, 21, P. Harrison; Ernest R. Bowling, 24, Lexington, Ky.; Nancy Mae Switzer, 24, Lexington, Ky.; Lawrence McGrath, 43, 1408 S. Meridian; Mary Frances Sullivan, 34, 720 N. Delaware.

Robert L. Davis, 21, Owensburg; Jean Davis, 22, 2611 S. Delaware; Charles O. Holladay, 21, Lafayette; Velmer L. Thorpe, 20, Lafayette; Walter Edward Smith, 32, 1715 Central; Susan Irene Postal, 24, 1820 N. Alabama.

Billy Dean Umphress, 19, 2002 N. Pennsylvania; Betty Louise Miska, 21, 2106 N. Talbot; Dee Bell, 25, 2201 Sheldon; Dorothy Mae Wilson, 20, 1120 E. 20th; Carl William Heideman, 32, 437 N. Bosart; Florence Helen Webb, 24, 437 N. Bosart.

John Herman Prazee Jr., 20, 1530 E. Market; Lucille Mary Volk, 19, 1519 E. Ohio; James A. Cullivan, 23, 1103 Kappas; Evelyn Joan Mori, 22, 3014 W. Michigan; Alex Edward Brown, 29, 175 E. Washington; Patricia Katherine Dryden, 42, 618 N. Bradley.

Clair L. Conner, 21, 1615 E. 12th; Buddie Milliken, 18, 826 Lincoln; Jack Pogoda, 21, 353 Heidricks Place; Mildred Bilger, 16, 1332 E. Ohio; Charles J. McDaniel, 24, 231 S. Meridian; Alice McLaughlin, 24, 2007 N. Arsenal; Thomas Penick, 40, 1017 N. Holmes; Veronica Rust, 25, 3380 Central.

DIVORCE SUITS FILED

Gladys vs. John H. Ribby; Eunice D. vs. Claude V. Shelby; Bonnie vs. Dewey Miller; William vs. Virginia; Adkins vs. Lloyd vs. Helen P. Boals; Helen E. vs. Lawrence Calvin Nelson; Viola vs. James Howell; Louis G. vs. Emma J. Mount; James vs. Mary Helen Ervin; Orville vs. Louise Clark; Martha J. vs. Walter C. Reese; Margaret E. vs. Gerald Taylor.

BIRTHS

At St. Vincent's—Virgil, Agnes Padgett, boys.
At Home—Kenneth, Polly West, 1946 E. 22d; Vernon, Berlingham; Philip, 1273 DeLoe; George, Helen Young, 1649 Arsenal; Lloyd, Lalla McGinnis, 717 N. East; At Methodist—Gertrude, Martha Morford; James, Laura Burlingame; William, Elaine Niven; Howard, Jewel Kenney; Dale, Evelyn Bell; Richard, Mary Peacock.

At St. Vincent's—Francis, Mary Carpenter; Jan, Beverly Lucas; Robert, Marguerite Hinds; Dale, Joan Burrer; Thomas, Helen Gassaway.
At Coleman—John, Dorothy Gavin; Noel, June Wire; James, Nellie Yarbrough; Albert, Carolyn Thiesen; Wilbur, Lucille Johnson.

At St. Francis—Louis, Dena Schakel; Lowell, Lavone Nibarger; Edgar, Dorothy Worthing.
At General—William Virginia Pearl Williamson; Clarence, Barbara Jean Hawkins.

At Methodist—William, Ruth Snyder; John, Mary Bohannon; William, Nellie Heath; Thomas, Evelyn Graves; John, Nancy Rutz; James, Christine Madsen; At Coleman—Robert, Maxine Pullen; At Wayne—Bernadine Kelley.
At St. Francis—Gloria, Martha Graves; At General—Pella, Frances Plummer; At Home—Virgil, Helen Craine, 421 E. Louisiana; Willard, Lodona Kennedy; At S. Kenwood—Brenda, Nunnally; 150 Douglas; Lloyd, Irene Shellen; 218 E. St. Clair; Ernest, Pauline Watkins, 2018 Boulevard Pl.

DEATHS

Will Minims, 62, at General, pneumonia; Ernest D. Gorin, 58, at 4714 E. 15th, cerebral hemorrhage; Mary Martha Crawford, 67, at 4601 E. 35th, arteriosclerosis; Vada Fox, 54, at General, hypertensive cardiac vascular; Percy B. Kirk, 54, at 2436 N. Talbot, valvular heart; Charles A. Willner, 86, at 1450 Roosevelt, arteriosclerosis; William Henry Bennett, 77, at Methodist, pulmonary embolism; Henry Richardson, 65, at 1323 Golay; Nellie M. Griffin, 61, at 4350 Park, cerebral hemorrhage; John E. Wylie, 51, at 1337½ Central, carcinoma; Lucy Bodine, 83, at 623 E. Dr. Woodruff Place, cerebral hemorrhage; Eleanor M. Whitlock, 75, at 718 Locke, cerebral hemorrhage; Lennie Meak, 43, at General, hypertension; David Russ Powell, 84, at 818 W. New York, cerebral hemorrhage.

EXCEPTION PLEASE
On the 3 Peak Saturdays in December 4th, 11th & 18th and on Monday, Tuesday Wednesday and Thursday just before Christmas the Store will be open from 9 till 6.

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