

NUCLEAR WAR: How your home is affected

Two months after a nuclear attack 72% of the population will be dead. 8% will be seriously injured. Only 20% will survive uninjured. And the death toll would be even higher in the cities and target areas. Here are just a few of the scientists' grim results.

READING

Uninjured: 101,000 (47%)
Injured: 28,000
Dead: 85,000

EDINBURGH

Uninjured: 11,000 (3%)
Injured: 32,000
Dead: 348,000

GLASGOW AREA

Uninjured: 22,000 (2%)
Injured: 38,000
Dead: 1,048,000

HULL

Uninjured: 11,500 (3%)
Injured: 8,500
Dead: 353,000

LEEDS

Uninjured: less than 1,000
Injured: 4,000
Dead: 528,000

MANCHESTER

Uninjured: 17,000 (1%)
Injured: 33,000
Dead: 1,210,000

MERSEYSIDE

Uninjured: less than 1,000
Injured: 4,500
Dead: 1,200,000

NORWICH

Uninjured: 9,000 (5%)
Injured: 11,000
Dead: 163,000

LEICESTER

Uninjured: 15,000 (3%)
Injured: 14,000
Dead: 424,000

BIRMINGHAM

Uninjured: 8,000 (1%)
Injured: 11,000
Dead: 1,532,000

BRISTOL

Uninjured: 27,000 (5%)
Injured: 52,000
Dead: 489,000

SWANSEA

Uninjured: 2,500 (1%)
Injured: 6,500
Dead: 144,000

LONDON

Uninjured: 113,000 (1%)
Injured: 579,000
Dead: 7,188,000

While there's time . . .

FOCUS

Each month FOCUS will spotlight one aspect of the nuclear arms race and the campaign to end it. This month we bring you the . . .

Hard Luck report

Two months after even a limited nuclear attack on Britain nearly forty-three million people would be dead or seriously injured. The eleven million survivors would be at the mercy of famine, epidemics, pestilence and radiation with little clean water and virtually no medical services.

This is the appalling truth uncovered by the "Hard Luck" team of Scientists Against Nuclear Arms (SANA) after months of intensive computer-based investigation.

The SANA findings give the lie to cosy Government assertions that Britain could withstand nuclear attack.

That was the sort of myth the Government wanted to spread through the civil defence exercise "Hard Rock" which was postponed through CND pressure and the refusal to participate by over one hundred and sixty Nuclear-Free Zone local authorities, like London and Manchester.

Using reliable estimates of the number of Russian missiles and bombers targeted on Britain and freely available information on the location of nuclear targets, the SANA team meticulously worked-out

Where the bombs will fall . . .

A nuclear attack would leave Britain devastated.

Scientists have worked out the likely pattern of a limited scale nuclear attack mainly on military targets; British and American bases, major communications facilities, weapons stores and factories all over the country. The map (left) is based on their work.

Each dot represents a nuclear explosion. It adds up to a 220 megaton attack, delivered by more than 300 bombs; nuclear overkill equal in destructive power to more than 13,000 Hiroshima bombs.



the grim reality of what would happen to the nation's 54 million men, women and children.

The figures show that "Hard Rock" is sheer mockery.

"Hard Luck" would be the fate of the nation and our people. Our past and our future.

London, for example, would disappear. With nuclear missiles bursting across the capital, from Heathrow Airport to Biggin Hill from Enfield Royal Ordnance Factory to British Aerospace and Plessey at Weybridge, with Whitehall and the US Naval intelligence headquarters at the American Embassy in Grosvenor Square as prime targets, nothing would be left.

Of an estimated London population of 7,880,000 (derived by SANA from the last census) perhaps 113,000 might stagger from the ruins and be coping after the attack. Certainly 7,188,000 would be dead and unburied and 579,000 injured.

Glasgow (pop 1,108,000

would have 1,048,000 dead and 32,000 injured. Newcastle (pop 421,000) would be wiped out. So would Derby (pop 210,000) and Cheltenham (pop 103,000).

Manchester's 1,260,000 people would become 1,210,000 corpses, 33,000 injured and a mere 17,000 capable of trying to start again.

And on and on. Aberdeen, Dundee, Edinburgh, Darlington, Carlisle, Liverpool, Birmingham, Swansea, Swindon, Plymouth. Virtually the whole of Britain turned into a cemetery of unburied dead.

The SANA scientists assumed an attack by 220 megatons of Russian nuclear weapons, about 300 bombs.

This is nothing like the amount the Soviets *could* use against this country and probably about half the number the Soviets have targeted on this country.

Nor do the casualty figures take into account the extra devastation which would be caused when our own nuclear power stations and nuclear weapons were attacked.

Scientists who exposed the nuclear war game



MIKE PENTZ

Scientists Against Nuclear Arms has as its chair Professor Michael Pentz who is vice-chair of CND. Professor Pentz is Dean of the Faculty of Science at the Open University and has worked at the Cern nuclear particle accelerator in Geneva. Among SANA members are many fellows of Royal Society including Professor Maurice Wilkins the Nobel Laureate. SANA Scientists have been examining possible

effects of nuclear war since the association's inception. The "Hard Luck" study takes into account previous Home Office civil defence exercises and uses work on methods of calculating casualty figures that started eighteen months ago.

The main-frame computer programme to quantify figures took over a year to develop.

Four SANA members who have played key roles in Hard Luck are:

- Owen Greene, from Bristol University, now working at the Open University.
- Neil Turok, from Imperial College who is researching into theoretical physics.
- Dr Stanley Openshaw, an authority on computers who works at Newcastle University, and;
- Dr Assam Qasrawi, who researches at Lucas Aerospace.

DEATH OF A NATION: 43 mil

Fire, Fire! - but we'd have no water

The fires started by a nuclear onslaught on London would burn unchecked for months, says Ken Cameron, general secretary of the Fire Brigades Union.

"We couldn't contain them. It's beyond thinking about."

"London has 6,000 firemen and that number is not sufficient for the city in normal times, let alone a nuclear war."

"We couldn't begin to make an impression on the fires that would rage after a nuclear attack. In any case there'd be no water."

"The Government had a plan once for firemen to leave their wives and children at home, if a nuclear war was imminent, and drive their vehicles to a secret hole-in-the-ground in Gloucestershire or somewhere and stay down the hole, with the vehicles, until the attack finished and then pop up and war."

What is true of London is true of the rest of Britain. The entire country has only 36,000 firemen.

"Talk about 'civil defence against nuclear war' is hypoc- risy," says Ken Cameron.

"If the truth were told many people would have a completely different attitude to nuclear weapons."

"The FBU has decided over- whelmingly that we will have nothing to do with any kind of emergency planning for nuclear war."

"Crazy! We're having nothing to do with war plans."

"The first duty of firemen is to save life. All firemen could do, if they had managed to survive themselves, would be to try to dig out people trapped under debris."

"Sheer hypocrisy"

based blast casualties on experience of conventional explosions in WW II.

"This is not appropriate for nuclear explosives, as 450 rads. But the Home Office was, in effect, using one of 600 rads which had recently been increased to 800 rads.

"This whole area is a controversial one, but there is no clinical evidence to justify such high values and some to justify much lower ones."

Of the dangers of fall- out, he said the Home Office assumed "unrealisti- cally high" protection factors which did not take into account the blast damage buildings would have.

As for radiation, he said the Home Office was using a formula which was being "applied outside its range of validity — if it is valid at any dose level."

The dose of radiation at which half a large group of healthy adults exposed to it seemed the Home Office

Owen Greene said it American studies."

level of blast which are lower than those used in the Home Office uses casualty rates from a given square kilometres to intense heat which causes serious burns to exposed people

"When a nuclear bomb explodes, the first important effect is to expose tens of hundreds of square kilometres to intense heat which causes serious burns to exposed people

"The Home Office uses casualty rates from a given level of blast which are lower than those used in American studies."

Owen Greene said it seemed the Home Office

any dose level."

The dose of radiation at which half a large group of healthy adults exposed to it

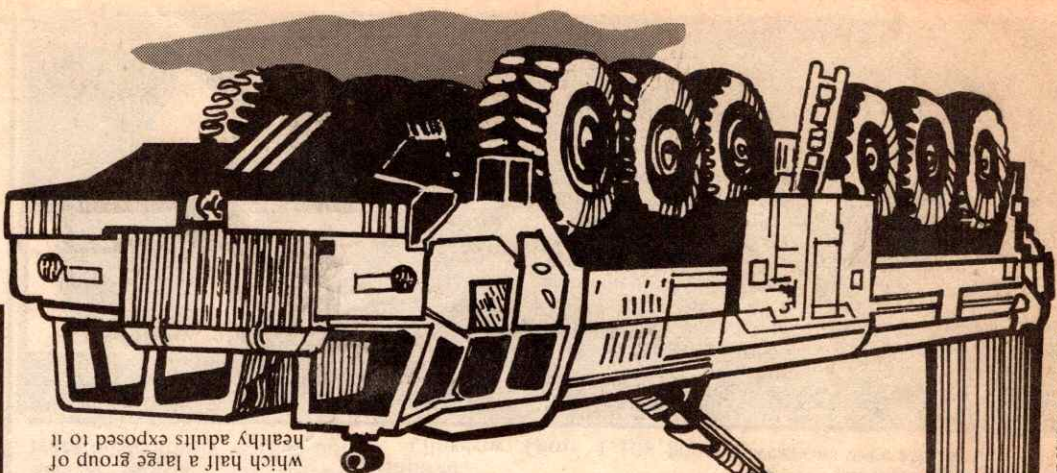
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Focus is edited & designed by Chris Horrie

Data: These weapons (left, right) are 46 targeted on Britain. The SANA tea is the explosive power of the A-bomb and has a range of a little over 3,000

children, our country, our hopes, our pray
tomorrow, our h
Paddington Be
Street Kids,
Captain Cook, C
Dogs, Francis
Keeper of the
The V B A, The
and Royce, The
Monastery, Wat
Salisbury Cate
Pie, Amy John
Boy Cornwall, S
Hitchcock, The
Charlie Chaplin,
Studios, The Ard
Forth Railway B
Thomas Hardy,
Keir Hardie, Dr
Mrs Siddons, G
Regatta, Straw
Supermarkets, V
Vera Britain, S
Person on the G
Wolff, Balmora
Cardiff Arms P
The Local Pub,
Bible Society, Th
Fathers, Notting
Carta, The Levell
Pankhursts, Fis
of Score, Ver
George Elliot, Chippendale, The Ri
Christopher Wren, Francis Drake, Grace
Rolling Stones, Reggae Music, Black P
Grace Fields, The Palladium, The P
Flying Circus, Constable, Watford G
No. 10 Downing Street, Jeans, Christi
King Harold, George Stephenson, Giant
Odeons, Campion, Hammersmith Palas
Hatfield House, John Hunter, Treasure Isl
Spinning Jennie, Harlequins, York Minst
Florence Nightingale, Darwin, Will Hay, D
Stopes, Regent's Park Zoo, Sherlock H
Bevan, Oliver Cromwell, Dartmoor, Royal
Dr Livingstone, Hadrian's Wall, Wembley
Ware, John Wesley, Black Beauty, Jan
Charles Dickens, Annie Besant, Nelson's
Market Street, George Lansbury, Fish a
School, Fords of Dagenham, Brontë co
Stonehenge, The Kop, Gainsboroug
Palace, The Beatles, the f
Milton, Chaucer, Burns, L
LEICESTER SQUARE
PICCADILLY
GOD

Brighton won't rock

Brighton and Hove absolutely intact. Not a person injured, not a person killed. This is assumed the Russians have not targeted the area and also have not bombed France. But Brighton's population would face epidemics and starvation.

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dead or injured

Doctors' Dilemma

Doctors are in a dilemma about what to do with the casualties of a nuclear attack. They are asking if it is ethical for them to take part in planning which might involve leaving hundreds of thousands to die?

Some doctors have discussed huge-scale "mercy-killing." According to a report published by health chiefs at the Faculty of Community Medicine each surviving doctor could be confronted with up to a thousand casualties, many seriously burned.

Quick decisions

Working 18 hours a day and giving each casualty only 20 minutes on average, it would be

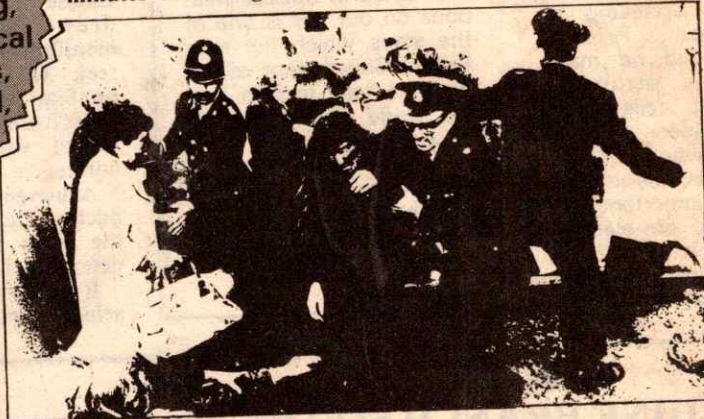
two weeks or more before the last casualty had been seen.

Yet the Home Office has detailed plans for coping. These include decanting ordinary patients from hospitals before the attack and evacuating medical supplies and equipment to safer areas.

At casualty collection points decisions will be made who to treat. Only those likely to be alive after seven days with minimum medi-care will qualify.

People dying from radiation sickness or severe burns would not be treated.

That's where the "mercy-killing" discussion enters the tragedy.



Is there room at the surgery?

QUOTE: "Worse than the waste of money is the fact that the civil defence programme serves to create the impression that nuclear war is fightable, winnable and survivable" — US Rear Admiral Gene La Rocque.

CAN LABOUR SAVE US FROM IT ALL

BOB CRYER MP, KEIGHLEY

Will Labour carry out its promise to end the deployment of nuclear weapons by our country, especially, people sometimes add, after the Chevaline episode?

The answer is that the Labour Party has dramatically improved its democratic structure since the time when a clique within the Labour Cabinet secretly authorised the modernisation of Polaris at a cost of £1 billion without any announcement to Parliament, to the Labour Party and to the people.

It was a disgraceful evasion of political and democratic responsibility.

But the leader is now chosen by the Party as a whole, not by the Parliamentary Labour Party, and all members of the Parliamentary Labour Party are subject to reselection by their constituency Labour parties, hence there is a great deal more accountability to the rank and file than before.

A series of conference resolutions commits the Party firmly to unilateral nuclear disarmament, starting from the special Wembley Conference of May 1980, when the document "Peace, Jobs and Freedom" was adopted by over six million votes to around 50,000 and which included the following:

• Please turn over



EWELL
 Shakespeare,
 Thomas, Buckingham
 Coventry Cathedral,
 Rum, Southampton Grammar
 John Wilkes, Big Ben, Lime Street,
 Keats, Soho, Coronation Street,
 Blackpool Pier, The Great Bed of
 Tolpuddle Martyrs, Penicillin,
 James Watt, Ernie Bevin, Nye
 of Nurses, Ebinburgh Castle, Marie
 Anne Hathaway, Emma Hamilton,
 Virginia Woolf, Cheddar Gorge,
 pop Ladies, The Dukeries, Fielding,
 National Gallery, Celtic, Vickers, Local
 Vicky, Old Mother Riley, Reynolds,
 Mew, Manchester Free Trade Hall,
 Ke, Edith Cavell, Monty Python's
 ice station, Spaghetti Junction,
 House of Commons, Comics, The
 Al Ale, The Cambridge Folk Festival,
 George Bernard Shaw, H.G. Wells,
 Adam Bede, Purcell, Stone

e, The
 Magna
 s, Pilgrim
 ival, The
 niversity,
 Russell,
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 ins, The
 omnibus,
 ith, Tea,
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 Sullivan,
 Caxton,
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 newood
 am Smith,
 ne, Alfred
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 idisfarne
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 n Warrior,
 Hall, The
 ne Light,
 n, Elgar,
 , The Bash
 d Hill,
 , All our
 our culture,
 r parents, our
 ves. Everything.

n SS-20s. It is thought there are
 assumed 44 of them are used.
 head would hit with ten times
 devastated Hiroshima. The SS-20
 just under six feet in diameter
 Illustrations: Joanna Lee.

Can Labour do it

FROM PREVIOUS PAGE

"In 1974 we renounced any intention of moving towards the production of a new generation of nuclear weapons or a successor to the Polaris nuclear force. We reiterate our belief that this is the best course for Britain.

"Many great issues affecting our allies and the world are involved. The Labour Party opposes the manufacture and deployment of cruise missiles and

the neutron bomb and refuses to permit their deployment in Britain by the United States or any other country".

At every subsequent Labour Party Conference resolutions have committed the party firmly to remove all nuclear weapons either U.K. or U.S. owned.

It is also true that a further two-thirds majority for these resolutions has so far not been

obtained.

This would provide that the decision will be compulsorily included in the election manifesto but lack of such a further two-thirds majority does not in any shape or form remove the policy from Labour's policy programme.

"Weasel Words"

A further two thirds majority would, however, remove any last vestige of opportunity for those Labour Members of Parliament who seek to sabotage the programme, not by open argument, but by packing the Clause 5 committee which draws up the election manifesto with people who seek to exclude unilateral nuclear disarmament and substitute instead empty, weasel words which mean nothing.

Achievement of unilateral nuclear disarmament will be the most radical change in defence policy ever.

It will be the most significant achievement for the Labour

Party in breaking consensus thought and attitudes.

It will bolster as never before support for the United Nations at a time when the second Special Session on Disarmament ended so dismally, largely due to the sabotage of the U.S.A., U.K. and their satellites.

It will restore the faith of all those countries who signed the nuclear non-proliferation treaty on the basis that the nuclear powers would reduce their nuclear arms and who raised so many critical voices at the 1980 Review Conference because nuclear arms have increased not diminished.

The growing nuclear arsenal will at last be curbed.

We would be embarking on a path to reinforce the pressure created by people for peace and unilateral nuclear disarmament. The responsibility is great.

The very future of mankind may well depend on Labour carrying out its pledges. Nothing less will do.

Foot cruise pledge

Labour leader Michael Foot has gone on record once again in favour of disarmament. Speaking in Bristol on Friday, September 3rd he made one of his strongest disarmament calls since becoming leader.

"The rejection of the cruise missiles," he said, "is not only an important item in Labour's pre-election programme; it will be carried into effect by us after

the election.

"The refusal to accept a new breed of nuclear weapons on our soil is one of the steps which the next Labour Government will be ready to take to help lead the world back from the nuclear abyss."

He was answering suggestions from senior NATO officials that, once in power, Labour would drop its anti-nuclear stance.

LONDON MACHINE BRANCH SOGAT welcomes the new Sanity

Jobs not Bombs

J. Mitchell *Secretary*
C. Cherrill *Deputy Secretary*
D. S. Lloyd *Chairman*

We commissioned a series of Commemorative Mugs. No. 1 is on sale at the CND Shop or in the Groups. No. 2 is being designed and will soon be on sale.

Commemoratives can be produced for special occasions. A recent one was for Cymrun CND, when Wales was declared a Nuclear Free Zone.

All profits go to CND

For further information write to:
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