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EARTHWATCH

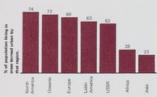
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1.83 RESOURCES

RODIETION

additional notes 1



	1960	1970	1975	2000
	pos	pulations in	millions	projected
Calcutta	5.5	6.9	8,1	19,7
Mexico City	4.9	8.6	10,9	31,6
Greater Bombay	4.1	5.8	7,1	19,1
Karachi	1.8	3.3	4,5	15,9
Bogota	1.7	2.6	3,4	9,5
Lagos	0.8	1.4	2,1	9,4
Greater Cairo	3.7	5.7	6,9	16,4

Source: United Nations

4,800 sq., km. of prime tarmland under buildings, roads and reservoirs every year.

MIGRATION

Migration for work is becoming more common.

All in the developing world, movement of workers from the all in the developing world, movement of workers from the common of th



additional notes 2

POPULATION DENSITY: ASIA IS OVERTAKING EUROPE

OVERTAKING EUROPE

The distribution of man on the planet's surface is changing fast, Europe remains the most densely populated area of the globe, with 98 inhabitants to the square kilometre. But South and East Asia is not far behind and will soon be the most crowded region on earth. The United Nations estimates that Asia could have three times Europe's density of population within 100 years. In 1970 Asia contained 2000 million people, By the end of the century is it is expected to have 3500 million people. But the end of the century is it is expected to have 3500 million, as people choose to have smaller families. The same is not generally true in Africa, the world's flastest growing continent. Its population truy. And though parts of the continent are relatively lightly populated, in some arid areas such as the Sahel or in countries such as Rwands, the existing population is puring a strain on productive land, Latin. America is also growing fast, particularly in the crowded cities, and uneven land holding is forcing poor peasants onto marginal land.

FERTILITY: SIGNS OR DECLINE IN THE

FERTILITY: SIGNS OF DECLINE IN THE

FERTILITY: SIGNS OF DECLINE IN THE DEVELOPING WORLD

The World Fertility Survey, begun in 1972, is the largest social science research project ever undertaken: it has covered 41 developing and 19 developed countries. Among the flindings to emerge so far four conclusions stand out:

Childbarring is declining in many developing countries, though most women, even in urbus areas, are having more about two-thirds of time in developed countries and another than the series of the Many governments are concerned about the economic and ecological impacts of rapid population growth. They are finding their efforts to increase saving for investment, to reduce unemployment, to provide education, to protect forests and croplands are overwhelmed by swelling human numbers. Rapid population growth is not the only cause of failure to meet development goals. However, it frequently makes things worse. In fact, according to the International Planned Parenthood Federation (IEPP), government support for family planning is growing in every region of the world. An up-to-date count shows that 86 governments, in the world's 143 countries with populations of over a quarter of a million, actively support the provision of family planning information and services. More than three quarters of the world's population live in these 86 countries.

than three quarters of the world's nopulation live in these in these 86 goountries. However, of these 86 governments, only 35 have the reduction of population growth as one of their stated aims in providing contraceptive information and services. They include countries such as China, findia, Bangladerh and Indonesia, with very large and growing populations and well established family planning programmes. Other countries such as Mexico, Kernya and Ethiopia have only recently become publicly concerned about the speed of population growth and are now more actively supporting family planning. Other countries support family planning mally for health reasons. In many countries private organisations work side by side with cases they step crowding family planning services. In some cases they step crowding family planning services in some cases they step crowding family planning services. In some cases they step crowding family planning services in some cases they step crowding family planning services are not available. IPPF has member family pulmenting services are not available. IPPF has member family pulmenting services are not available, in the provided services, as do other privately funded agencies.

DEVELOPMENT AND FAMILY PLANNING

DEVELOPMENT AND FAMILY PLANNING
Debate over the best way of bringing down soaring population
growth rates was, for some time, polarised between those who
growth rates was, for some time, polarised between those who
are the polarised pol

CONCLUSIONS

- CONCLUSIONS

 1. In developing national conservation strategies all countries have to take account of the number and needs of their people.

 2. In many countries the rate of population growth is so great that they cannot afford to wait for future affluence to solve their population problems.

 3. Such growth puts a strain on national budgets as the number of dependent young people increases, it contributes to parsisting mainstrition and adds to the burden of schooling, housing, unemployment and the drift to cities. Thus powrty and rapid population growth reinforce one another.

 4. There are some examples where fertility has declined in the absence of family planning programmes (often with widespread resort to abortion). There are also cases, such as Indonesia, where family planning has caught to without substantial irroads on poverty. But it is now widely agreed that the best results are obtained where social development (especially including education and improvements in the position of women) goes hard in hand with family planning. Each helps the other,

additional notes 3

MAN AND OTHER SPECIES

OVERPOPULATION AMONG ANIMALS



being destroyed as a result. Culling takes place to speed up the restoration of balance between resources and population.

UNDERPOPULATION AND EXTINCTION

1 Underpopulation

Underpopulation may be defined as too few animals. This is a problem if a population sinks so low that it requires management action to build it up again.

The crocodile of the Kabblegs Falls National Park suffered from underpopulation. At one time the River Nile bellow the Falls swarmed with this resulting to the Very the problem of the years number when the property of the years number were disturbing resting fermeds.

The solution to the problem was clear and simple. The poaching of adults was stopped by the prohibition of trade in crocodile skins, Previously there had been as mail legal trade which had been used as an outlet for poached skins. Poaching was no longer a paying proposition and it stopped overnight.

Disturbance of fernales looking after their young was stooped by making the breeding areas off-limits to tourist craft during the nesting seasor. Already the retrictions are paying off; young croodiles of all ages can be user in the wastes of the Nile.

1) Extinction

TERRITORY HELPS CONTROL

additional notes 4

TOWN GROWTH HALTS PLANT GROWTH



further reading

'How to Save the World: Strategy for World Conservation' *Robert Allen* - Corgi (Transworld Publishers Ltd) 1982. (Kogan Page edition available from World Wildlife Fund, £3.60 inc, $p \ \& \ p$.)

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- A World Watch Institute Book, W. W. Norton & Co., 1981.

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John Wiley & Sons Inc., 1976.

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"Eco-Science: Population, Resources, Environment" Paul Ehrlich and Anne Ehrlich Freeman, 1977. Extinction - The Causes and Consequences of the Disappearance of Species' Paul Ehrlich and Anne Ehrlich - Victor Gollancr Ltd., 1982.

'Inside the Third World' Paul Harrison Penguin, 1980.

'Food First, the Myth of Scarcity' Frances Moore and Lappé and Joseph Collins Souvenir Press (Educational & Academic) Ltd, 1980.

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Global 2000 Report - Entering the Twenty-First Century', A "The Mitchell Beazley Atlas of Earth's Resources' - Mitchell report commissioned by President Carter, prepared by the Council on Environmental Quality and the Department of State, US - Penguin, 1982, Allen Lane, 1982.

North-South: A Programme for Survival' - The Report of the Independent Commission on International Development Issues under the Chairmanship of Willy Brandt - Pan Books Ltd., 1980.

organisations -

ORGANISATIONS
Centre of World Development Education (CWDE)
Schools Officer:
128 Bucklingham Palace Road, London SWTW 9SH,
Tel: 01-730 8332/3.
An independent agency set up to

Tel: 01-730 8352/3.

An independent agency set up to promote education in Britain about development issues and Britain's inter-dependence with the Third World.

A free catalogue lists CWDE publications and visual aids.

A free catalogue iso's CHCE publications and visual axis, Conservation Society Limited 12a Guildrond Street, Chertsey, Surrey KT16 980, England, Tel: Chertsey (199238) 60957. An independent organization concerned with the size of population and the use of natural resource. Publications include: Conservation News; "Good Earth' booklets and leaflets.

Earthscan 10 Percy Street, London WTP 0DR. Tel: 01-580 7574 A non-government media agency which produces briefing docu-ments and booklets on a wide range of environmental issues.

Friends of the Earth (FOE) 377 City Road, London N1. Toi: 01:837 Orallon N3. Toi: 01:837 Orallon N3. An environmental pressure group. Leaflet on FOE and a catalogue of FOE publications will be sent free or receipt of \$2.8.

sent free on receipt of s.a.e. "
International Planned Parenthood Federation (IPPF)
18-20 Lower Regent Street, London SW1Y 4PW.
Tel: 01-839-2911. The largest international private voluntary organisation involved in any aspect of development, founded in Bormbay in 1952 to provide an international link for family planning activities. The IPPF today works through independent family planning ascociations in 117 countries. Funding of about \$50 million annually comes from governments and private foundations.
Publishes quarterly illustrated development magazine "People" with environmental supplement "Earthwatch" (annual subscription in UK: £5).

tion in Unit Co.

Oxfam

Education Officer:
274 Banbury Road, Oxford OX2 7DZ, England.
Tel: Oxford (0865) 56777.
A development agency spending most of its income overseas, but committed to "development education", which is about change and development in today's world.
A catalogue on Oxfam education and youth material is available.

A catalogue on Uxtam education and youth material is available. Population Concern 27-35 Mortimer Street, London W1N 7RJ. Tel: 01-637 9582. Under the assoics of the British Family Planning Association, seeks to broaden public awareness in Britain about work population issues and organises fund-raising campaigns to support population and development projects throughout the world. Publications: World Population Data Sheet' 40p inc. p & p; "Population Today' E1,50 inc. p & p; The Shape of Things to Come' £1,75 inc. p & p.

Population Crisis Committee and the Draper Fund
1120 19th Street, N.W., Washington D.C. 20036, USA.
Tel: (202) 659 1833.
Public information on world population problems.
Publications include "Population Briefling Sheets", "Oraper-Fund Reports", "Country Status Reports".

Population Reference Bureau
1337 Commercicut Avenue, N.W., Washington D.C. 20036, USA.
7ct: (202) 786 4694.
Private education and research organisation providing information on population issues.
Publications include: "Population Bulletin' (reports on specific
topics," Intercomptic, 'Interchange' (quarterly review for population educators) and various 'Data
Sheets', such a the annual 'World Population Data Sheet', with
demographic data from 178 countries.

Demographic data from 176 countries.

United Nations Fund for Population Activities (UNFPA)
220 East 42nd Street, New York, NY 10017, USA,
76: (212) 754 1234.

The principal source of funding for most population programmes implemented by the various United Nations agencies,
provides over \$100 million in population assistance annually,
Publishes quarterly journal "Populi", and boxed set of data
cards "Population Facts at Hand",

Worldwatch Institute
1776 Massachusetts Avenue, NW, Washington D.C. 20036, USA,
Tel: (202) 452 1999.
An independent research organisation created to identify and
focus attention on global problems, Produces booklets (Worldwatch papers) available singly or in bulk.

watch papers) available singly or in bulk.

World Wildlife Fund - UK

11-13 Octord Road, Godalming, Surrey GU7 1OU, England.
Tel: Godalming (048 68) 20051.
A voluntary organisation that raises money for the conservation of threatened wildlife, habitats and natural resources
throughout the world. The Fund's sister scientific body is the
International Union for Conservation of Natural Resources (IUCN).
Publications list available on receipt of s.a.e. Publications
include 'How to Save the World' by Robert Allen 63.60 inc.
p. & p.; educational bulletins (6) on major habitats covering
issues relevant to the 'World Conservation Strategy' 50e ach
inc. p. & p.

Checks and balances

What goes up, comes down

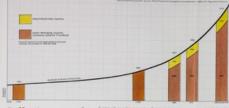


Winners and losers





RESOURCES: Population







Galloping growth

Let them eat cake

Future resource trends









Action needed

The necessities of life The food gap is widening



C









Two views on population one firm, one relaxed China

Nigeria

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'1:83 Resources - Population' is the first in a series of bulletins looking at world resources - their use and abuse. The series will include the following bulletins: energy; waste; land-use; pollution, and the importance of wild plants and animals.

