

VIII Preface - Begin 1961 w/ Nuclear War - Now "world faces a similar threat to human health and survival from changes in the global environment, ec., hab., spec., warming, pollution of air, water, soil."

Degradation more difficult than nukes - by orders of magnitude
Believe people will be motivated to make the changes in their lives

X - pop growth at the center. POP. At will fail exponential

X1 - moral courage? Vice President Gore?

X2 - There is still time left...

2 - We are altering the basic physiology of the planet

4 Rate of Industrialization (much faster than pop.) is a more (than pop.) impt determinant ~~at~~ 1950-85 - Electricity, Manufacturing, Cars, Chemicals

3 - The Human Belief System prevents from realizing the dimensions of the environmental crisis.

4) Solutions - 3 steps

Sulphur Dioxide SO₂ - Bronchospasmodic - Asthmatics Particulates - Can Control Next day Mortality Rate?

21 Emission Controls - Cars, Working.

32 - 1/2 of US - most of world use groundwater - walls, rivers

43 - on Chlorine in drinking water

50 3/4 of toxic waste disposal sites That don't comply with regs are in impoverished areas - of color.

55 - Export Death Garbage Multinational Pesticides - we export those we have banned because of danger.

60 - Lead - No threshold to leads harmful effect on intelligence

73 - 100,000 Deaths per year from occupational illness - or 50,000-70,000

74-75 - Top 10 Employment Related Disease or Injury

95 - Radiation - follow Headings & Summary's

110 - Atmospheric Testing - Calc. 430,000 stat miles

After Set upon other 300,000 Deaths in Future

131 - Data on multiplying Burdens of the earth - Pop.

Rain Forest 55% gone - going at 12.8% per year
Species Extinction ~ 1/4 species in 50 yrs.

142 Danger of Phytoplankton Disaster with UV Radiation

148 Immune System Damage - More Vulnerable to Infect Critical Condition

148 - Contrasting Effects of Ozone at 2 levels
losing it when we need it gaining when it's poison

149 - Tropospheric Ozone - may compromise food supply

163 - Climate change - per C° of warming - Agricultural boundaries move 200 to 300 K

164 TRIVIA: Saskatchewan produces 18% of the Earth's Traded Wheat?
Macrofood trend over last 30 years

172 Population ~~at~~ Great concern - "Without Pop

Control general health will remain elusive

173 - Basis of Pop control A. Family Planning B. Infant mortality Reduction

174 = 175 - Pop Growth Graphs

2.04% rate between 1965-70 - when New Age began
(Realization of New Age) - Counter culture - Tie man Adamo

177 - it is our Renewable Resources - water, fuel, soil that, in our numbers

178 - ~~at~~ Globally, annually - 140 m. births / number we are exceeding.

179 - Desertification & the Beyond Beef Campaign

50% reduce beef consumption.

180 - Adolescents pregnant 15-19 95 per 1000 in US

181 Effect of Honesty & Truth ~~at~~ 15 " in Netherlands

181 Cities - 1900 - 13% in cities - 2000 - 1/2 in cities

182 - 4 conditions necessary for pop to stabilize 1) Fam Plan 2) Low Infant mort 3) Adult Literacy 4) Better Status of Women

183 - a Pop. Test - worked - In Kerala - (India) Lowered Pop to nearly 2 PG in a still very poor area.

184 - Literacy is the correlate of birth rate

185 - US puts Abortion Politics into Family Planning World Funding

185 - Russia Abortion Russia - 112 to 1000, Netherlands - 59.

186 - " - A male dominated society

USA - our foreign aid totals ~ 1/3 of GDP - ~~at~~ 5% of which is pop.

187 Initiatives (Policy) for Population Control

187 Humans have a biological inability to perceive
④ small changes in their environment.

195 - Species Loss ④ GREAT ④ $\frac{1}{4}$ in 50 yrs / lowest #
since end of dinosaurs, 1000x of time natural rate.
197 - our DNA 1% different from a Chimp.

212 Bats & Birds - going fast - Eat Insects

212 - Ocean Fishing - Problems ④ Good

216 - Change in Environment - allow diseases to
like A105 emerge when natural host is damaged ^{"new"} E MERGE

217 ④ Hypothetical Disaster Scenarios