

Climate Change Impact: Short and long term vision on red meat production, processing and marketing Montevideo, Nov 22, 2010



Frank Mitloehner, PhD Assoc Prof & UC CE Specialist Dept Animal Science, UC Davis

Mean Summary of US Consumer Concerns About Issues

Issues	Total
The U.S. Economy	8.44
Rising Energy Costs	8.29
Rising Cost of Food	8.23
Rising Health Care Costs	8.21
Personal Financial Situation	8.04
Food Safety	7.67
U.S. military involvement in Iraq and Afghanistan	7.22
Access to accurate information to make healthy food choices	6.60
Humane Treatment of Farm Animals	6.43
Obesity in America	6.37
Global Warming	6.05

















World Population and Food Security

Number of Years Required to Add One Billion People to the World's Population

	Date Achieved	Years Required	While it took several million
First Billion	1800	All of Human History	years of human history to reach the first billion, and
Second	1930	130	130 years to reach the
Third	1960	30	second, today each new billion is added in 11 years
Fourth	1974	14	
Fifth	1987	13	Over the past 50 years
Sixth	1998	11	arable crop land per person
Seventh	2009	11	has halved from 0.42
Eigth	2021	11	hectares to 0.23 hectares.
Ninth	2035	14	
Tenth	2054	19	DEPARTMENT OF METEOROLOGY University of Maryland College Park, 1996





















"Livestock's Long Shadow" (FAO, 2006)

 "The Livestock sector is a major player, responsible for 18% of GHG emissions measured in CO₂e. This is a higher share than transport"











Emissions from dairy and beef herds in selected countries

Country	Emissions to proteins (kg CO2eq /kg protein)		
	Dairy herd	Beef herd	
The	46	176	
Netherlands			
India	160	543	
Brazil	128	455	

	Dairy emission factor (kg/head/yr)	Milk productior (kg/head/yr)
North America	118	6,700
EU	100	4,200
Latin America	57	800
Africa	36	475









