

Data Submitted (UTC 11): 8/30/2018 4:00:00 AM

First name: Heather

Last name: Cantino

Organization:

Title:

Comments: Packet #22: ec and health impacts of ghg emissions on ag and human nutrition

The following study (attached) must be considered and the costs of ghg emissions that they document be assessed for any ghg emitting activity proposed in the Wayne Plan.

Impact of anthropogenic CO2 emissions on global human nutrition,

Matthew R. Smith* and Samuel S. Myers, Nature Climate Change

vol. 8, pages 834- 839 (September 2018) DOI: 10.1038/s41558-018-0253-3

"Atmospheric CO2 is on pace to surpass 550 ppm in the next 30-80 years. Many food crops grown under 550 ppm have protein, iron and zinc contents that are reduced by 3-17% compared with current conditions. We analysed the impact of elevated CO2 concentrations on the sufficiency of dietary intake of iron, zinc and protein for the populations of 151 countries using a model of per-capita food availability stratified by age and sex, assuming constant diets and excluding other climate impacts on food production. We estimate that elevated CO2 could cause an additional 175 million people to be zinc deficient and an additional 122 million people to be protein deficient (assuming 2050 population and CO2 projections). For iron, 1.4 billion women of childbearing age and children under 5 are in countries with greater than 20% anaemia prevalence and would lose > 4% of dietary iron. Regions at highest risk-South and Southeast Asia, Africa, and the Middle East-require extra precautions to sustain an already tenuous advance towards improved public health.

and from the text "...Another clear and direct intervention globally would be to redouble efforts to reduce global CO2 emissions."

Long-term and cumulative impacts on human nutrition, including health care, monitoring, and adaptation economic costs and loss of earning potential by the afflicted, must be assessed for any ghg emitting activity proposed for the Wayne Plan per NEPA.

Sincerely,

Heather Cantino, Steering Committee Chair,

Athens County Fracking Action Network, acfanohio@gmail.com

on behalf of

Athens County Fracking Action Network, acfan.org, acfanohio@gmail.com

Buckeye Environmental Network (formerly Buckeye Forest Council), Roxanne Groff, board chair

Jean Andrews, Documentary Video Producer, "A Forest Returns: The Success Story of Ohio's Only National Forest as Told by Ora Anderson"

Concerned Citizens of New Concord Muskingum County, OH 43762

Meghan Wynne, Organizer