

Where is the CO<sub>2</sub> emitted on the farm coming from?

• Utilization of fossil fuels:

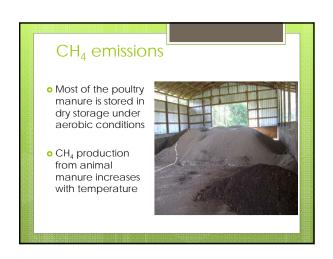
1. Purchased electricity- indirect emissions
2. Propane use in furnaces, incinerators,
3. Diesel use for generators, trucks, tractors etc.

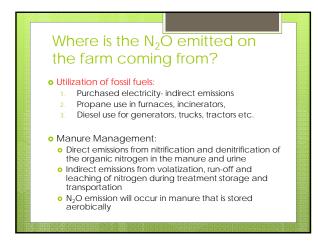
• Consumption of plant material (feed) by animals results in;

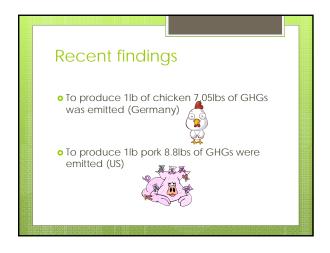
• Breakdown of C into animal biomass (meat and eggs)

• CO<sub>2</sub> respired by the animals

• Fecal deposition of C in unutilized co-products (manure)







Where is the N<sub>2</sub>O emitted on the farm coming from?

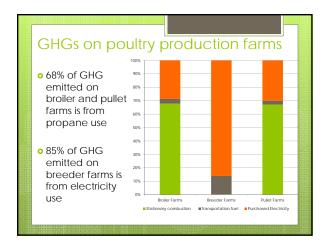
• N<sub>2</sub>O emissions are influenced by environmental factors;

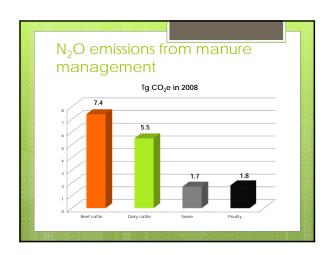
• Oxygen status

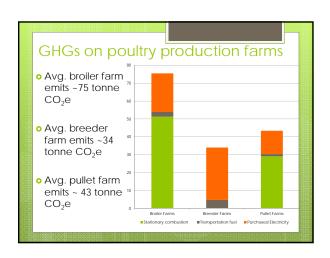
• Temperature

• Moisture content

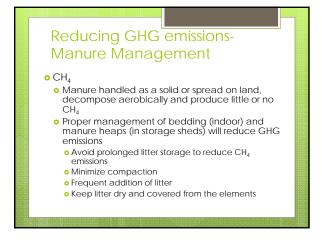
• Mixture of manure and bedding combined with the partial compaction of the bedding creates a condition that favors passive aeration- results in uncontrolled nitrification and denitrification











## Reducing GHG emissions Reducing energy use will also reduce the amount of GHGs that is emitted Reduction has to be done on a farm by farm basis Reduce propane use by preventing heat loss; Enclose houses that are not solid walls Insulate curtain openings, walls and ceiling

