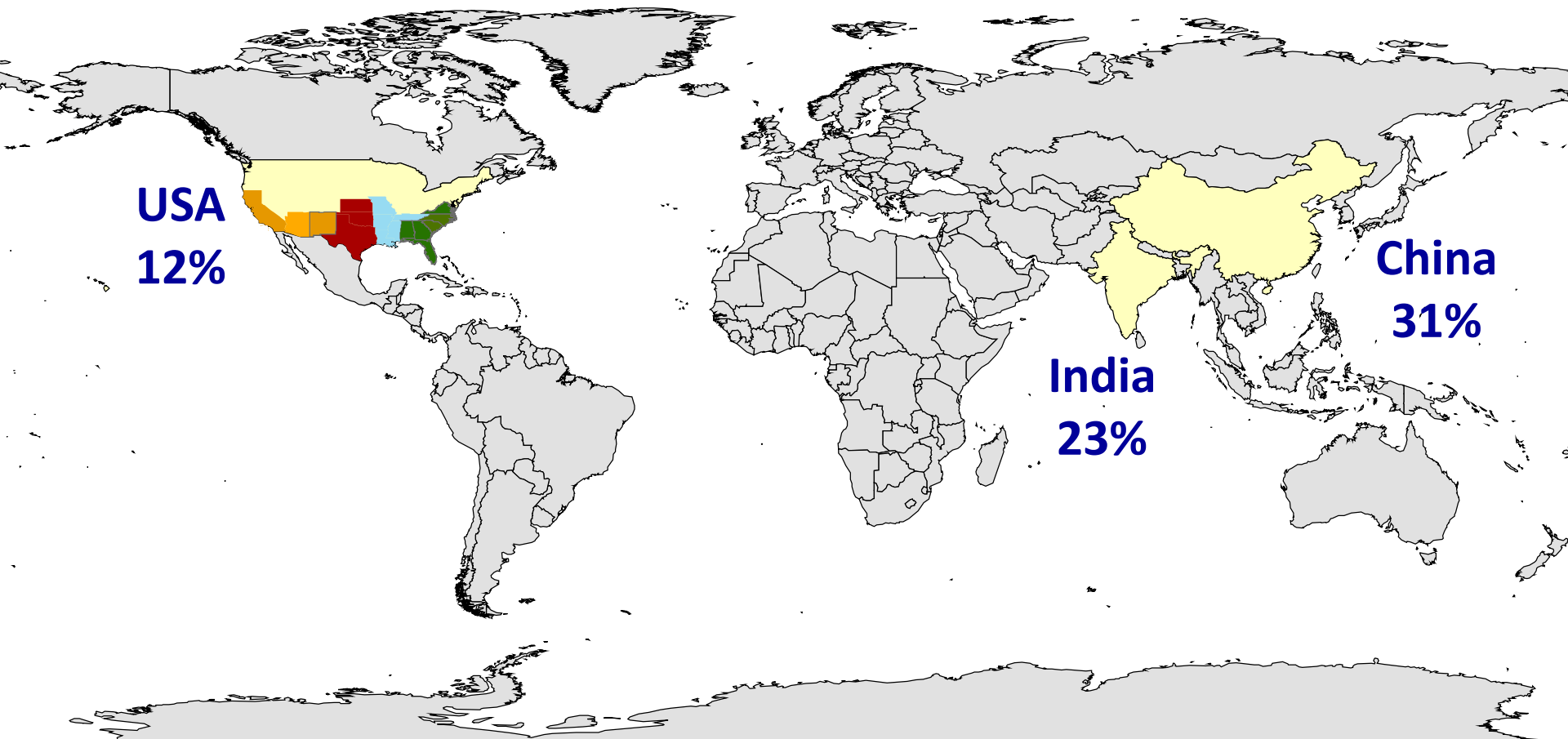


LIFE CYCLE ANALYSIS

Agricultural Data

Agricultural Data Collection

66% World Production



Data Requirements:



PE INTERNATIONAL
EXPERTS IN SUSTAINABILITY



GaBi Software
PRODUCT SUSTAINABILITY

Questionnaire on the production of agricultural crops

In case of any questions please contact Dr. Sabine Deimling: s.deimling@pe-international.com

Data Collection on:

Cotton

Information on the Data Collector

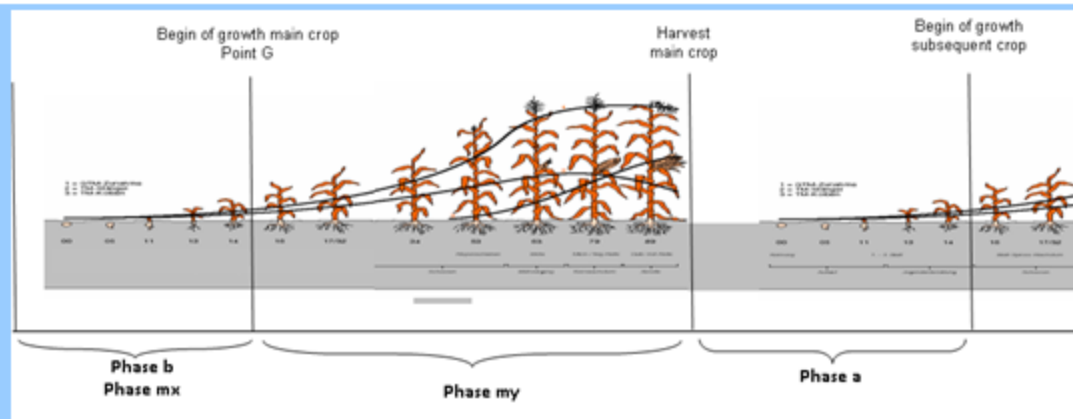
Company/Institution:

Address:

Name:

e-mail:

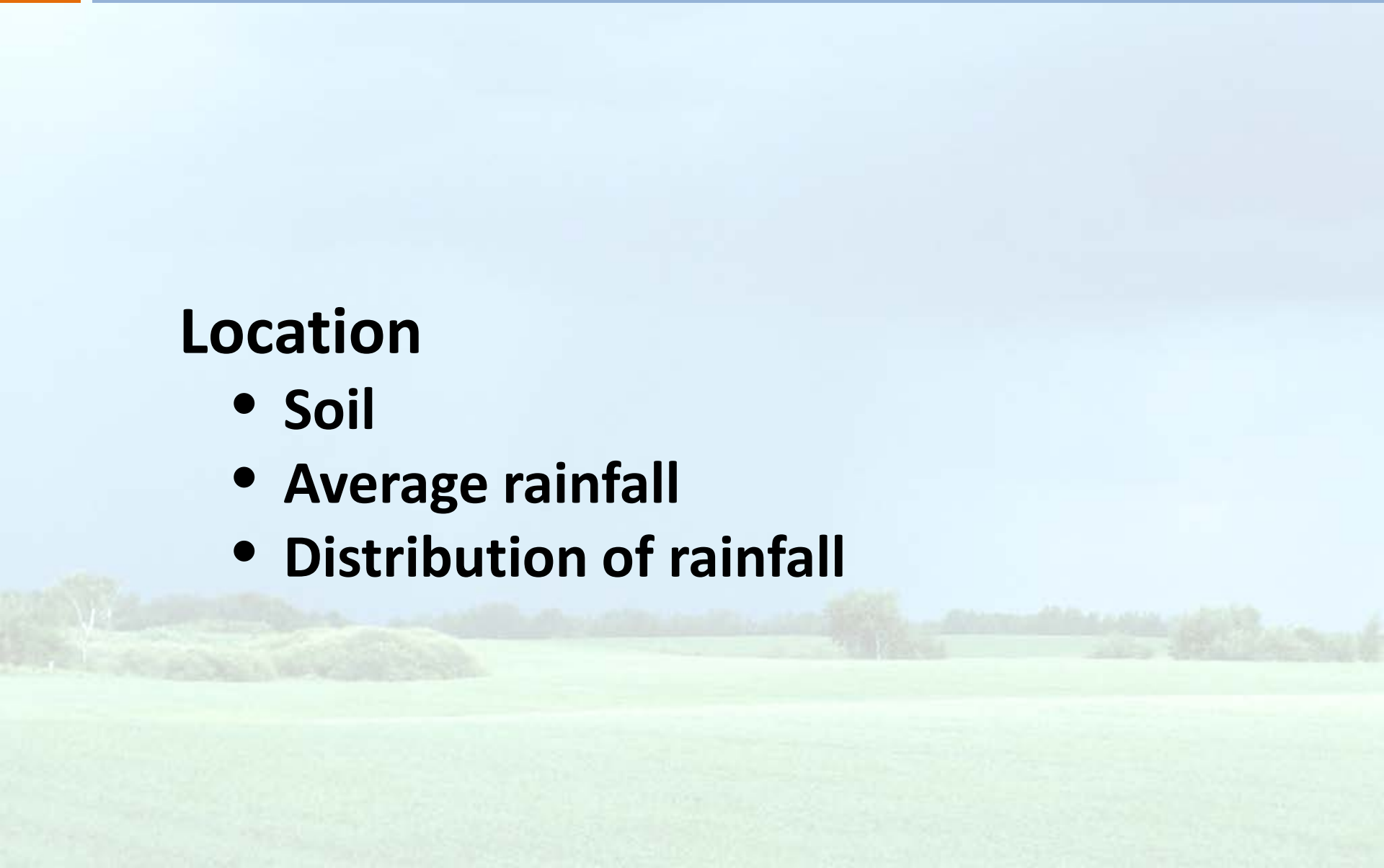
Date:



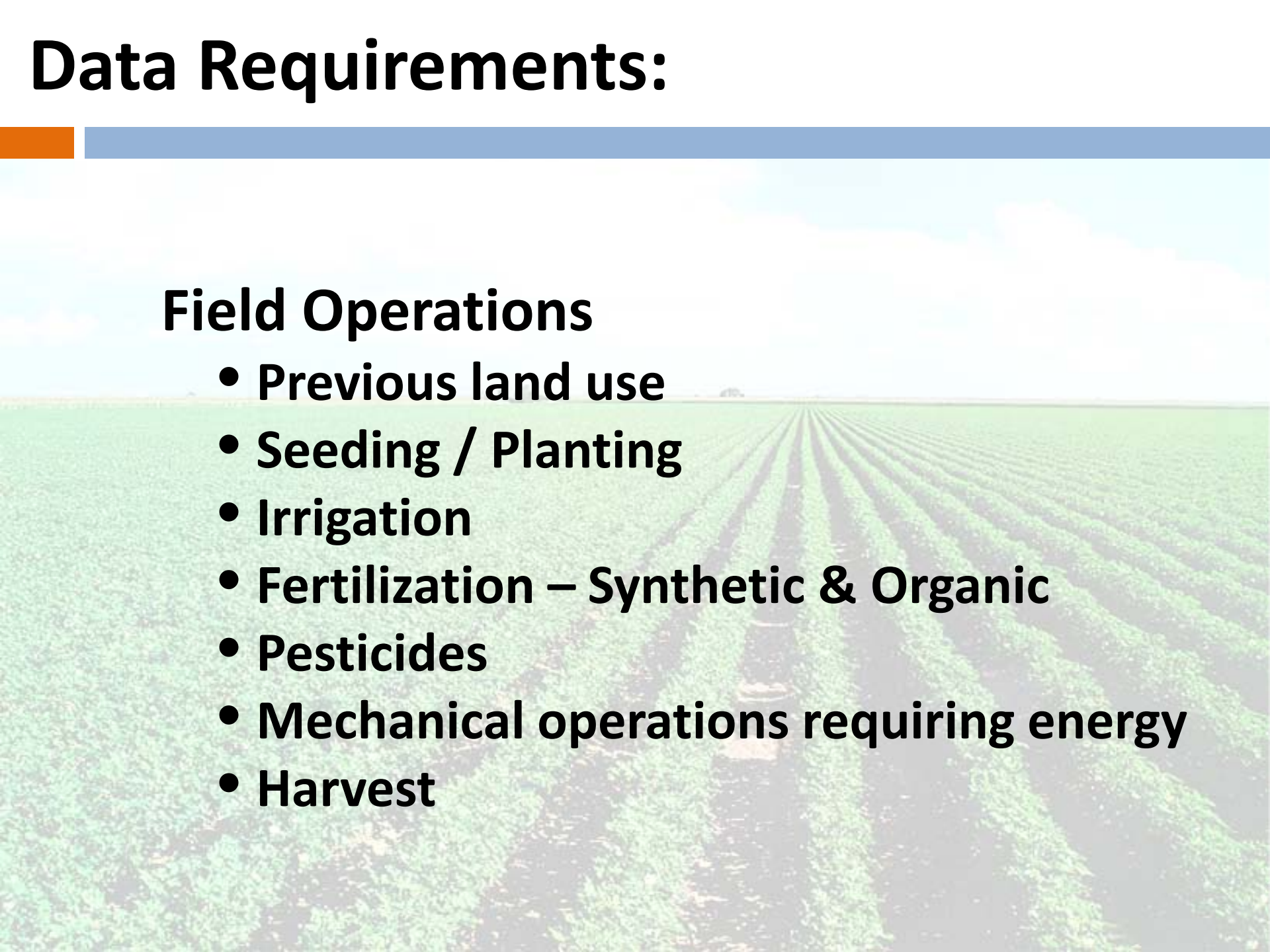
Data Requirements:



Location

- Soil
 - Average rainfall
 - Distribution of rainfall
- 

Data Requirements:



Field Operations

- Previous land use
- Seeding / Planting
- Irrigation
- Fertilization – Synthetic & Organic
- Pesticides
- Mechanical operations requiring energy
- Harvest

Data Requirements:

Post Harvest Operations

- Transport
- Ginning operations
- Packaging



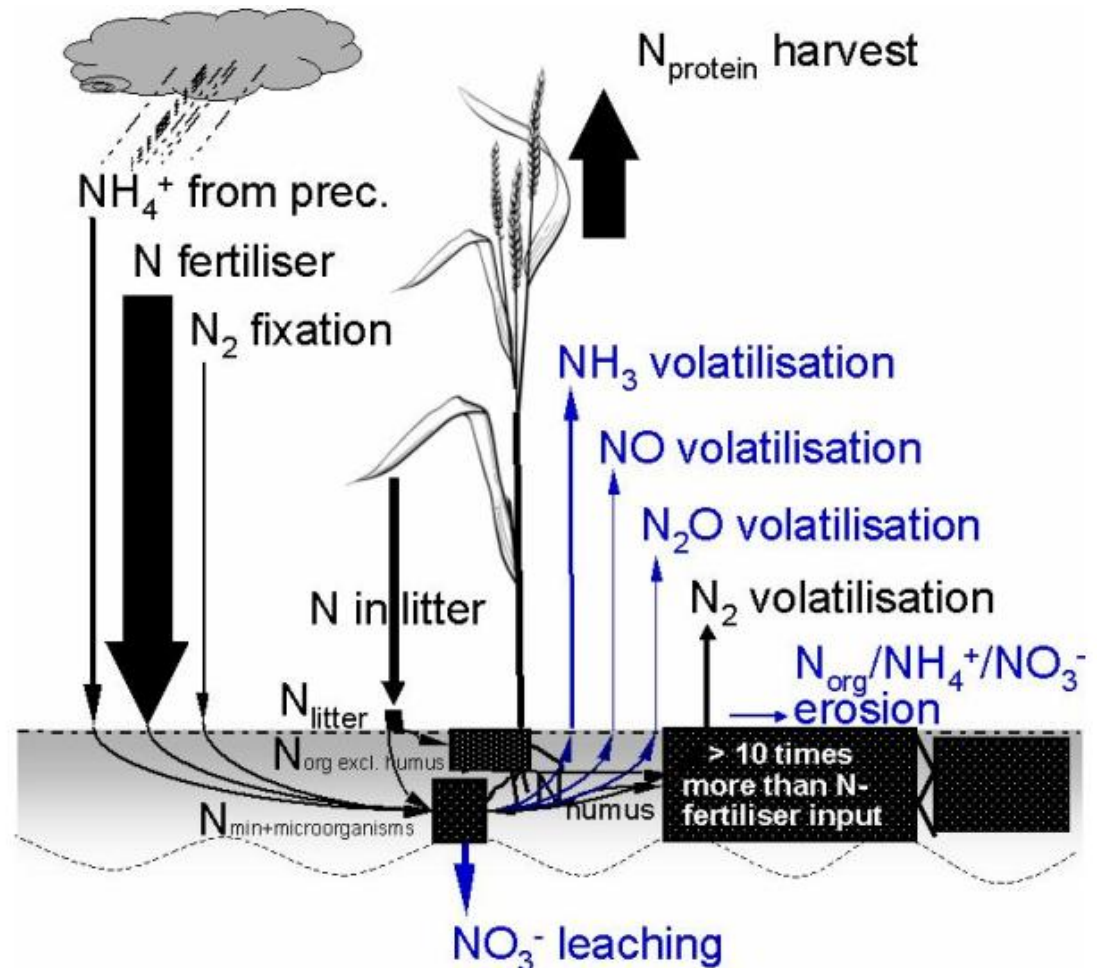
Data Requirements:

Fertilizer

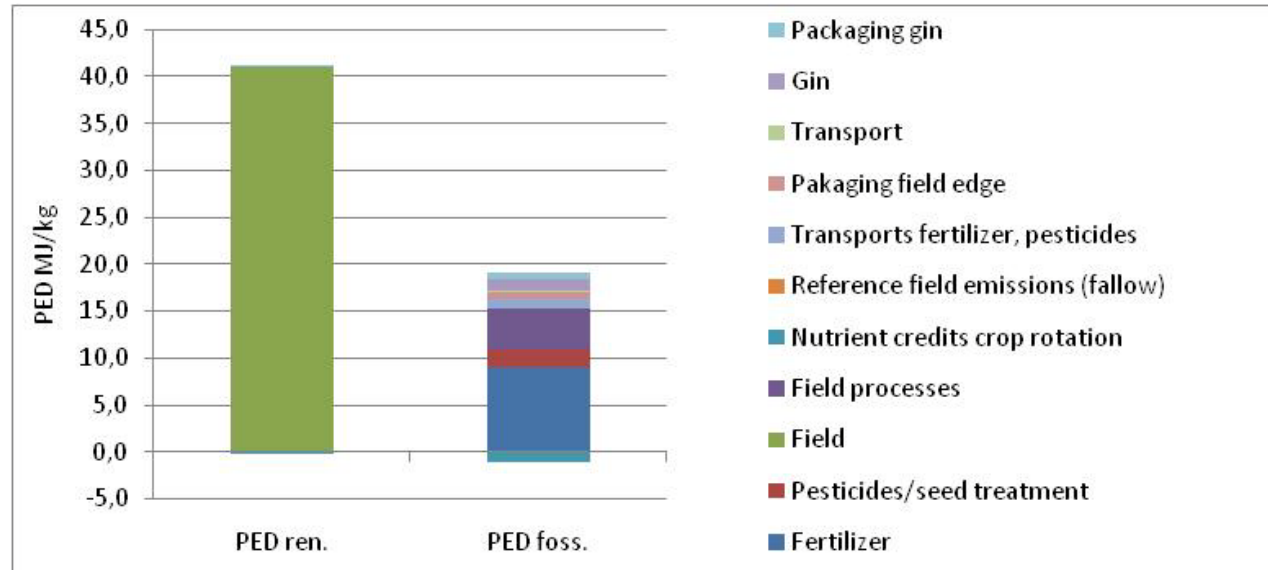
- Kind of fertilizer
 - Synthetic
 - Organic
- Amount of fertilizer (kg/ha/yr)
- % Composition
 - Nitrogen, Phosphorus, Potassium
- Trace elements
- Method of application

Life Cycle Analysis

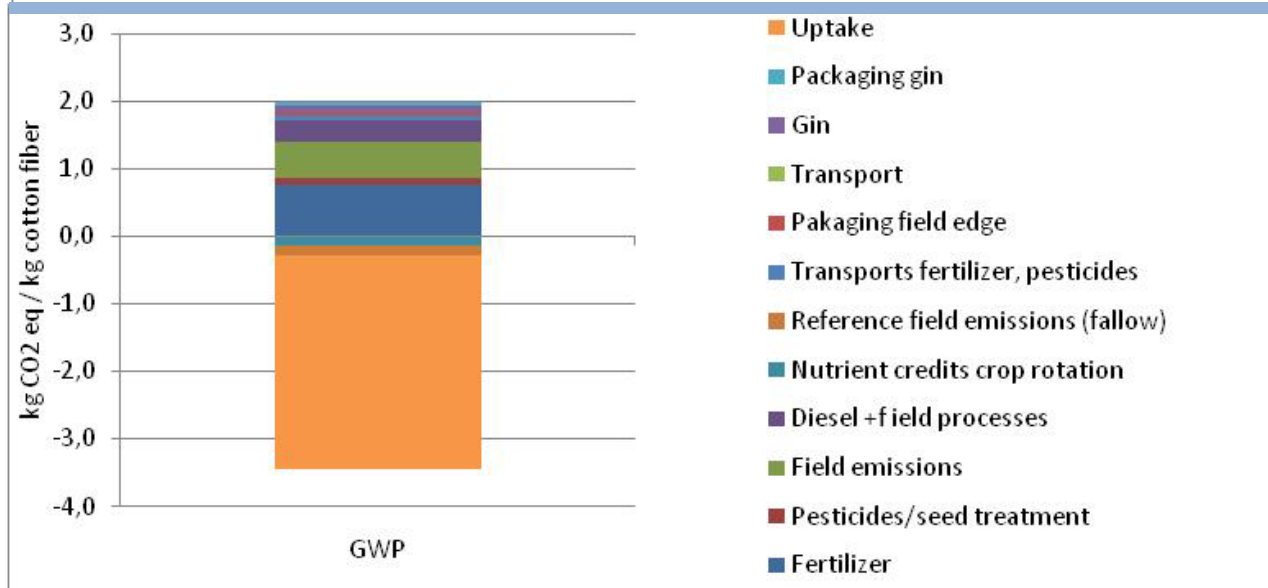
Nitrogen model



Life Cycle Analysis



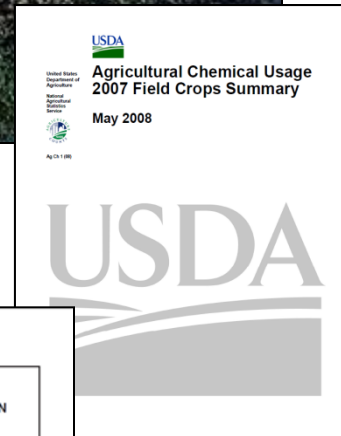
Primary Energy Demand



Global Warming Potential

Data Sources:

- Researchers
- Government documents
- Scientific Publications
- ICAC
- Interviews w/ growers
- Cotton Incorporated employees
- Etc.





ICAC

Expert Panel on Social, Environmental, and Economic Performance of Cotton Production

Mr. Allan Williams, Chair (Australia)

Dr. Francesca Mancini, Vice Chair (Italy)

Dr. Sheng-Fu Chiu (China – Taiwan)

Dr. Michel Fok (France)

Mr. Christopher Ward (Brazil)

Ms. Elke Hortmeyer (Germany)

Mr. Fatih Dogan (Turkey)

Mr. Subhash Chander Grover (India)

Mr. Wilfried Yameogo (Burkina Faso)

Mr. Jens Soth (Switzerland)

Dr. Bill Norman (United States)

Dr. Patricia O’Leary (United States)