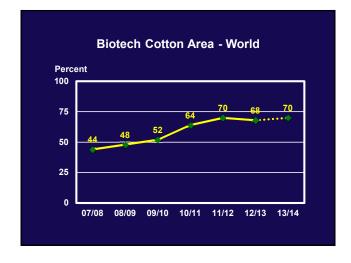


Yield Potential Indeterminate in nature Unlimited potential 4,500 kg lint/ha Genetic potential Recoverable potential Close the gap between genetic and recoverable potential

Yield - A Period of No/Slow Growth

- · Reasons Technology utilized
- · What do we need?
- · When we get increases?



What is Sustainability Definition UN - World Commission on Environment and Development (in 1987) "Sustainable development is a development that meets the needs of the present without compromising the ability of future generations to meet their own needs."

Five Pillars of Sustainability - UN

- 1. Habitat management
 - (Cotton is a farming system, cotton to others and others to cotton)
- 2. Crop attributes

(Varieties, seed, planting, etc.)

- 3. Plant growth and input use (Fertilizers, irrigation and physiology)
- 4. Integrated pest management

(Minimum use of pesticides)

5. Economic pillar

(Quality, marketing and processing)

Components of Sustainability

- Economic
- Social
- Environmental

Water Use

Water use efficiency

Irrigation of Cotton

- Cotton = 3% arable land and 3% water use
- Irrigated 61%, Rainfed = 39%
- · Yields tripled with less water
- Water use efficiency increased

