



W05L01: Productivity benefits

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Productivity Benefits of CASI

- System productivity
- Water productivity
- Energy productivity
- Input use efficiency

Envisage the future of CASI = An evidenced from farmers participatory research in EGP (n>350)



5-10% System Yield



46-62% Energy



8-17% Irrigation Water



16-56% Profitability



26-44% Labor



11-16% CO2 reduction

Comparative Advantages

- Reduction in tillage passes number from 5-10 to 1
- Advance the crop planting by 15-20 days
- Time saving atleast 70 % in crop establishment
- Fuel saving 30-45 litre ha-1
- Labor saving by 15-40 person days ha-1
- Reduce production cost by 4000-5000 INR ha-1
- Reduce irrigation water application by 5-10%
- Reduce weed population of particular species (P. minor)
- Increase crop yield by 5-10 %
- Increase in farm income by 20-40%
- Increase water productivity 10-15%