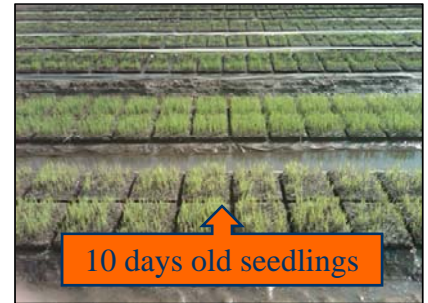


SRI Organic Rice – a Process for Commercial Production



Average yield on a 20-acre rice field -- 13 tons per ha

| | #1 | #2 | #3 | #4 | #5 | #6 | #7 | #8 | #9 | #10 | Ave-Range |
|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|
| Plant population (m ⁻²) | 19 | 18 | 21 | 22 | 15 | 18 | 19 | 20 | 21 | 22 | 19.5 |
| Plant tillers (m ⁻²) | 397 | 410 | 450 | 370 | 270 | 315 | 312 | 353 | 389 | 279 | 364 |
| Plant height (cm) | 102 | 98 | 97 | 105 | 100 | 102 | 100 | 102 | 100 | 102 | 110.8 |
| Panicle length (cm) | 26 | 25 | 26 | 26 | 25 | 24 | 26 | 26 | 26 | 25 | 25.5 |
| Straw weight (g m ⁻²) | 3,200 | 3,300 | 2,150 | 2,500 | 2,100 | 2,800 | 2,400 | 3,300 | 2,000 | 3,300 | 2,705 |
| 1000 grain weight (g) | 30 | 29 | 30 | 30 | 30 | 31 | 30 | 30 | 30 | 30 | 30 |
| Grain weight (g m ⁻²) | 1,159 | 1,523 | 1,243 | 1,210 | 2,192 | 1,530 | 743 | 1,274 | 1,067 | 901 | 1,284 |

The range of paddy yields within the field was almost three-fold, from 0.743 kg m⁻² to 2.192 kg m⁻². Average yield per m² (1.284 kg) represents a yield of 12.84 t ha⁻¹. Adjustments to a standard 14% grain moisture content would make the yield more than 3 times the usual yield in

Key Innovations

- Permanent raised beds – no soil disturbance
- Precision application of compost & fertilizer
- Transplanting in dry soil – easier equipment use, with water requirement reduced by 70%
- Mechanical weeding; no weedicides needed
- Furrow irrigation – avoid plant inundation, save water & save energy by using siphons

For more info: asif@farmalltechnology.com

Key Advantages

- ❑ No tillage – less cost, improvements in soil fertility
- ❑ Soil is not kept saturated, just moist, so better plant growth
- ❑ Controlled-traffic compacts furrows to reduce water seepage
- ❑ More/diverse biota are fostered, make soil food factory for plants
- ❑ Soil cover reduces need for other inputs to zero within few crops
- ❑ Lower water requirements stop salt accumulation in the soil

INNOVATIONS DEVELOPED BY MR. ASIF SHARIF, CEO, FARMALL TECHNOLOGY PVT LTD, LAHORE, PAKISTAN