



**Seed Potato Trial
Punjab 2
Package Treatment
India 2016**

Trial Setup



- **Crop & Variety:** Potato var. Pukahraj
- **Farmer Name:** Mr. Varun Bhatti
- **Place:** Bhatti Agritech Farm, Kango, Uggi Rd, Jalandhar, Punjab, India
- **Planting Distance:** 2 ft X 0.5 ft.
- **No. Treated of Rows:** 20 rows
- **Area of treatment:** 14R
- **Soil:** Sandy loam soil
- **Date of sowing:** 08/10/2016.
- **Assessment:** 12/01/Jan 2017
- **Area of assessment:** 1 sq. m. (multiple)
- **Program**
 - Control (Regular Practice)
 - Tradecorp Seed Potato Crop Nutrition Schedule

Trial Design

Package Treatment:

- Phylgreen200
- Humistar
- Intake
- Trafos Cu
- Tradebor
- Amifol K

Control:

- Standard Farmer Program

Sr. No.	Treatment Days	Product	Rate (ha)	Foliar Rate (ml /L water)	Foliar / Soil	Purpose
1	On DOS	Phylgreen200	0.625 L	50	Foliar	Seed Treatment
2	On DOS	Humistar Intake	2.5L 0.625L	NA	Soil	White root development & branching
3	25 DAS	Trafos Cu Phylgreen200	1.25L 1L	2.5 2	Foliar	Even establishments and abiotic stress reduction
4	35 DAS	Trafos Cu Tradebor	1.25L 1L	2.5 2	Foliar	Strong stem & increase tuber formation
5	45 DAS	Amifol K	1.25L	2.5	Foliar	Increase tuber size and yield

DOS – Day of sowing & DAS – Days after sowing

Trial Setup: Seed Treatment with Phylgreen



Potato Seed Treatment:

- Potato seeds were spread uniformly in 2 layers
- A solution of Phylgreen 200 @ 625 ml /ha, in 12.5L of water in knack sap sprayer was applied
- Spray the solution on potato seeds uniformly on upper side
- Then turn the potato seeds with hand to expose the untreated portion
- 2nd round of spray, so that both side of seeds get covered with Phylgreen 200
- Allow it to dry for few hrs. in dry place & sow the seeds after complete drying with sowing machine.

Soil Application of Humistar & Intake as Soil spray



- As farmer has already applied the basal dose of fertilizers, we don't have any other option other than soil spray of Humistar & Intake.
- Through knapsack sprayer the desired qty. of Humistar @ 2.5 L /ha + Intake @ 625 ml /ha was mixed applied on dry soil.
- After 5 days a flood irrigation was applied through the furrows, where we have applied humistar & intake.

Preliminary Result: After Humistar & Intake Application



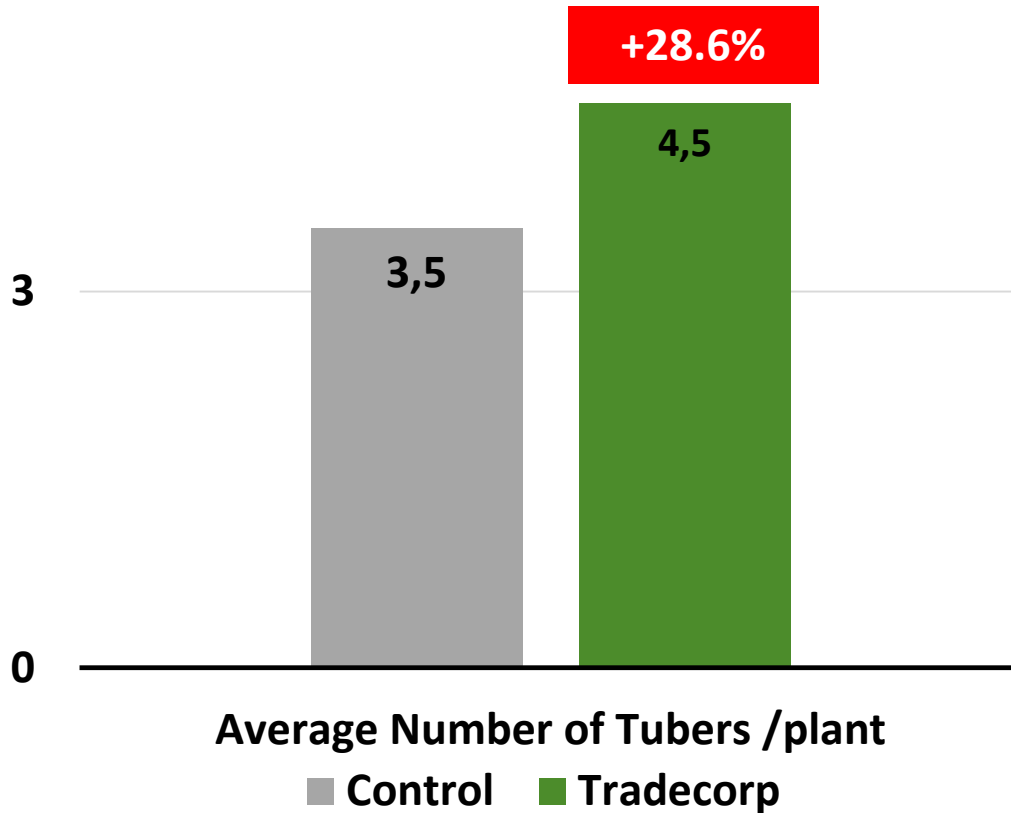
Control

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Observations taken after 35 DAS

- Increased root biomass and branching
- Increased stem thickness
- Also seen increase in no. of tubers, with uniform size.

Result: Trafos Cu, Phylgreen & Tradebor Application



Application:

- 25 DAS foliar application of Trafos Cu & Phylgreen 200
- **Aim:** increase plant strength, induce tuberisation & increase tolerance to abiotic stress
- 35 DAS foliar application of Trafos Cu & Tradebor
- **Aim:** increasing tuber setting & development

Observations taken after 45 DAS:

- Strong Plants
- More tubers setting 4.5 v/s 3.5

Preliminary Result: Amifol K



Application:

- Foliar application of Amifol K on 45 DAS
- Aim: increase the tuber size

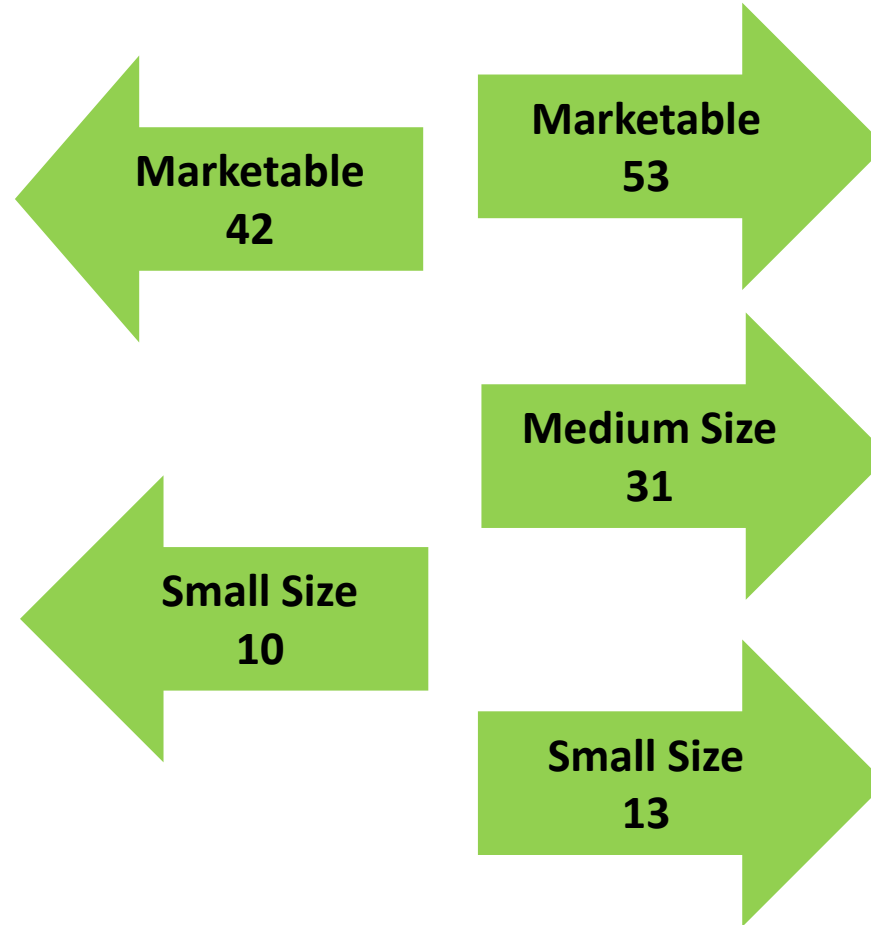
Observations taken at 65 DAS:

- Increase in marketable tubers
- More even size
- Greater Yield

Result: Size Grading



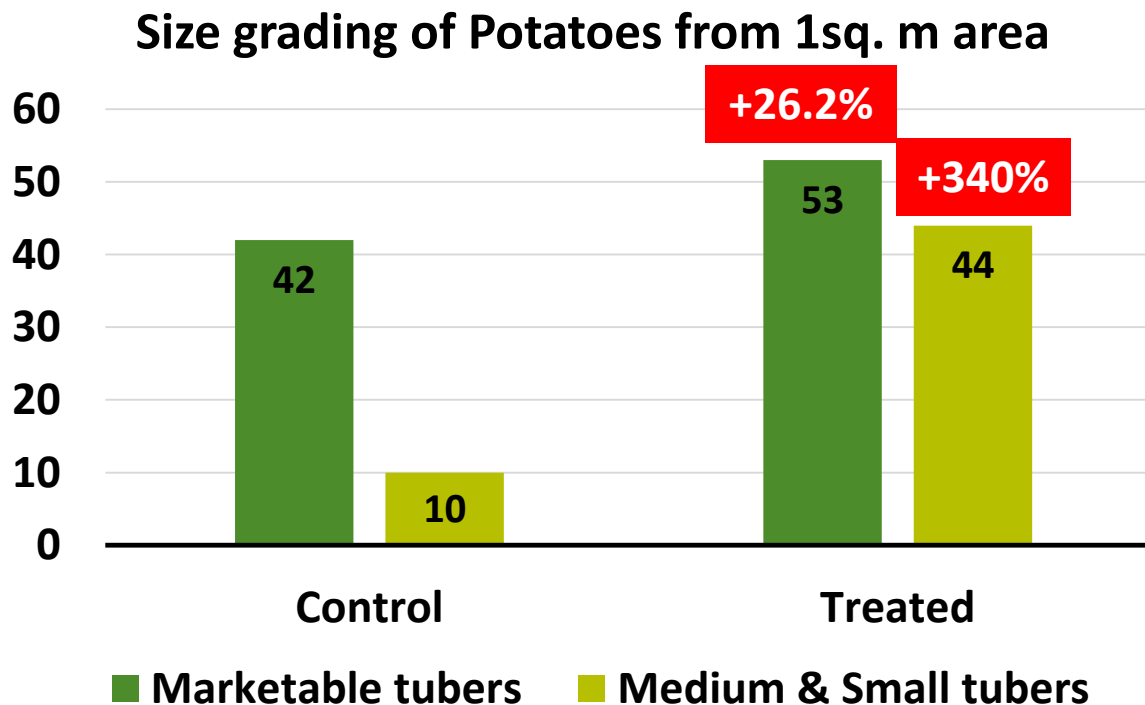
Control



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Potato taken out from 1 sq. m. area

Result: Size Grading

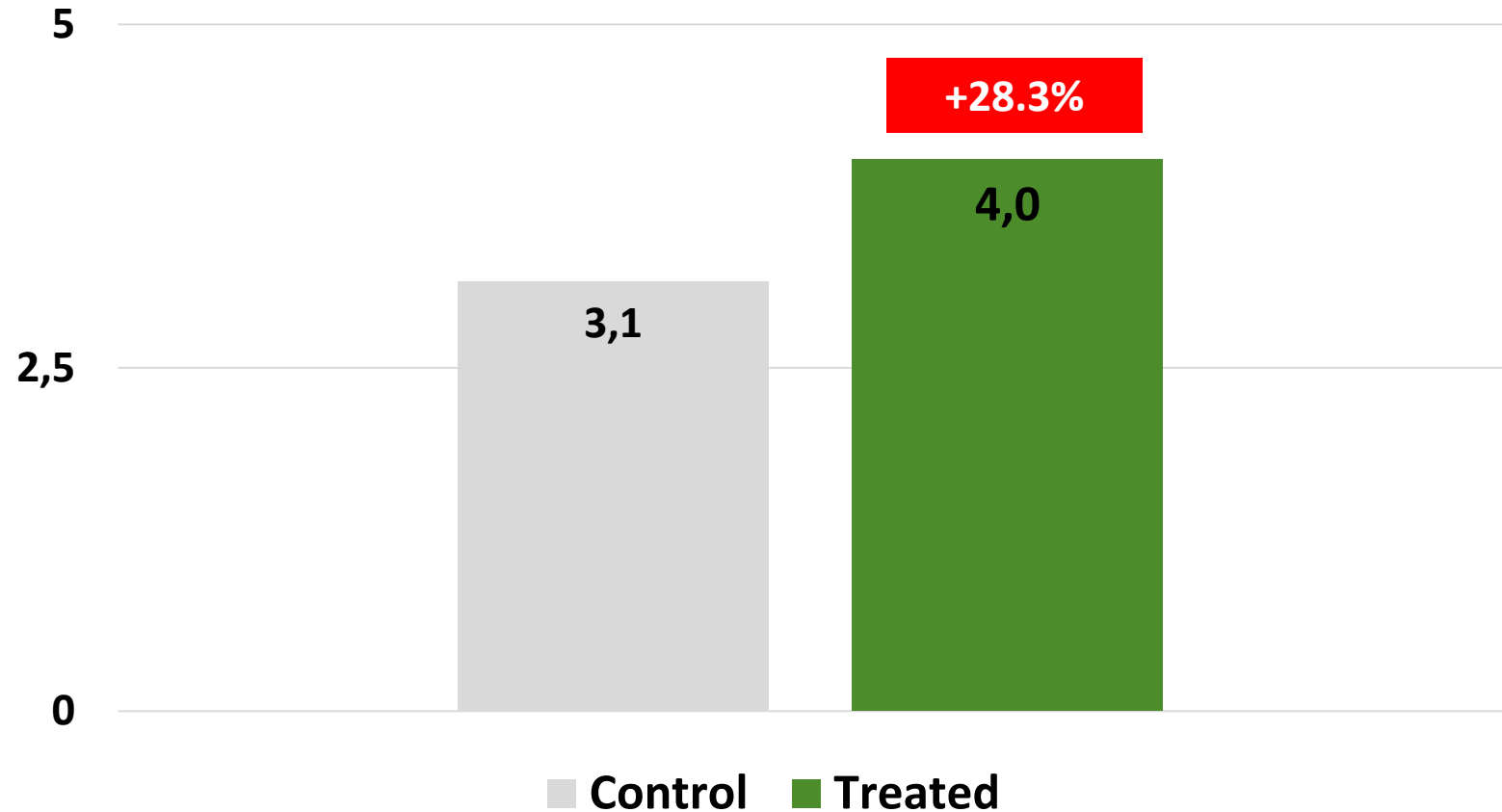


- **Marketable Tubers: +26.2%**
- **Small & Medium Tubers: +340%**
- **Total Tubers: +86%**

Result: Yield



Total yield of Potatoes from 1 sq. m area in Kg



Conclusions

Tradecorp Seed Potato Package

- ✓ Increased number of uniform size tubers.
- ✓ Increased in marketable yield by 26.19%
- ✓ Increase in total yield by 28.31%
- ✓ Extra Yield 8860 Kg /ha, Mkt price @ Rs. 5 /Kg, Total extra income = Rs. 44300 /ha
- ✓ Treatment Cost Rs. 8650 /ha
- ✓ ROI to the grower – $\text{Rs.}44300 / 8650 = 1:4.12$
- ✓ For every Rs1 invested the farmer recovered the cost and made Rs 4.12 profit

Conclusions

Tradecorp Seed Potato Package:

- Phylgreen200
- Humistar
- Intake
- Trafos Cu
- Tradebor
- Amifol K

Using the Tradecorp Seed Potato Package
for every
Rs1

invested by the farmer he recovered his cost and made
Rs 4.12 profit