



**Seed Potato Trial
Punjab 1
Package Treatment
India 2016**

Trial Setup



- **Crop & Variety:** Potato var. Badshah
- **Farmer Name:** Mr. Varun Bhatti
- **Place:** Bhatti Agritech Farm, Gilla Gate, Jalandhar, Punjab, India
- **Planting Distance:** 2 ft X 0.5 ft.
- **No. Treated of Rows:** 17 rows
- **Area of treatment:** 14R
- **Soil:** Sandy loam soil
- **Date of sowing:** 07th Oct 2016.
- **Assessment:** 12th Jan 2017
- **Area of assessment:** 1 sq. m. (multiple)
- **Program**
 - Control (Regular Practice)
 - Tradecorp Seed Potato Crop Schedule Program



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

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.



Preliminary Result: Seed Treatment with Phylgreen



Phylgreen Seed Treatment Observations at Emergence:

- More vigorous emergence
- More stolons
- Increased rooting especially fine roots

Preliminary Result: After Humifirst & Intake Application



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Application:

- After sowing of potato & re-ridging, Humistar & Intake was sprayed into the furrows at planting
- A light flood irrigation was given after 5 days

Observations after Humifirst & Intake Applications:

- Increased root biomass and branching
- Increased stem size

Preliminary Result: Trafos Cu, Phylgreen & Tradebor Application



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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 after applications:

- Strong Plants
- More tubers setting

Preliminary Result: Amifol K



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Application:

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

Observations after application:

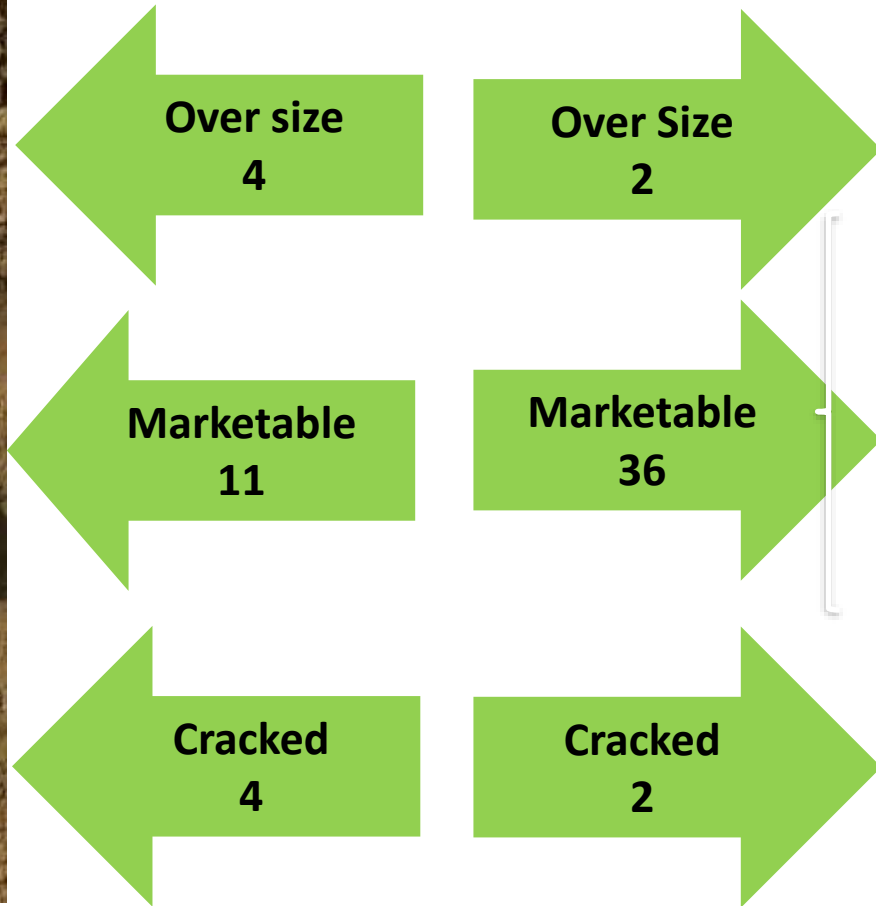
- Increase in marketable tubers
- More even size
- Greater Yield



Result: Size Grading



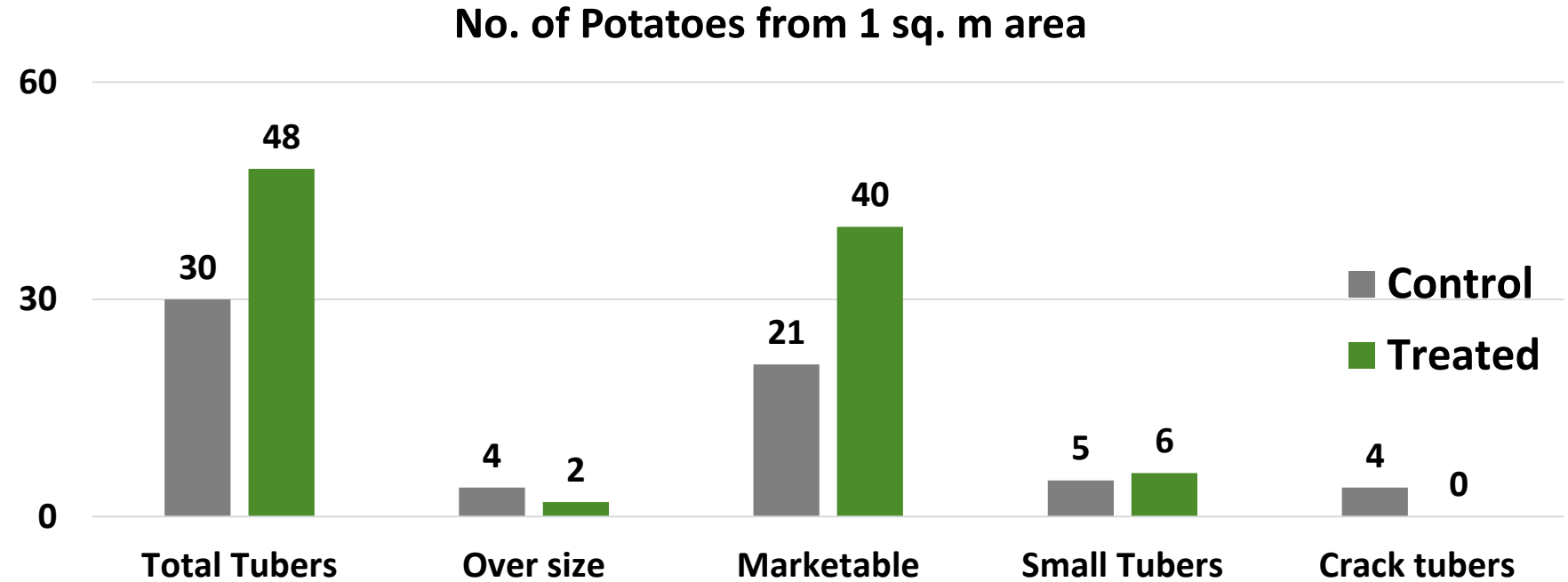
Control



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Potato taken out from 1 sq. m. area

Result: Size Grading

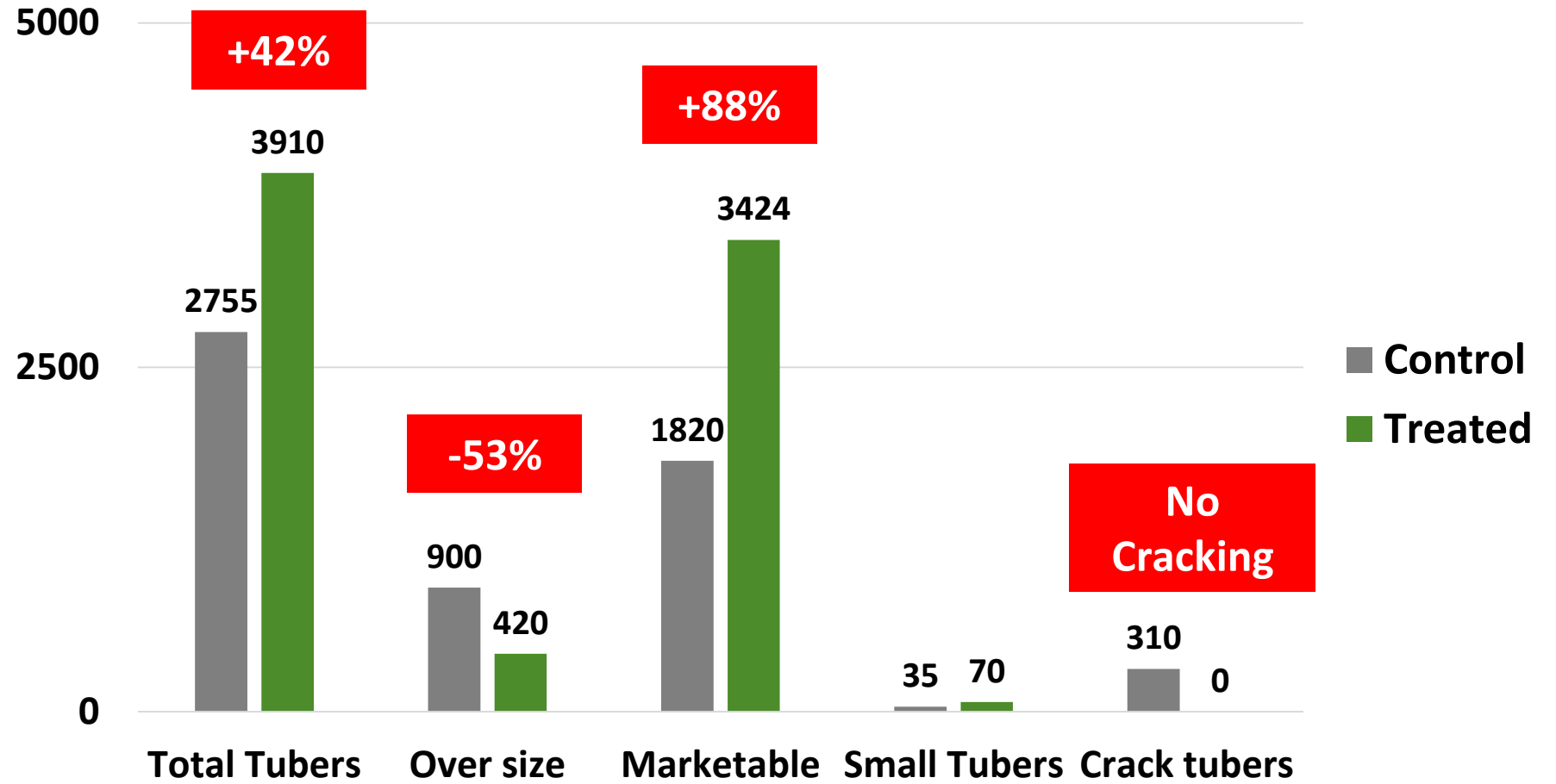


- 18 more tubers
- Less over sized tubers
- 19 more marketable tubers
- 0 Cracks compared to 4 in the Control

Result: Yield



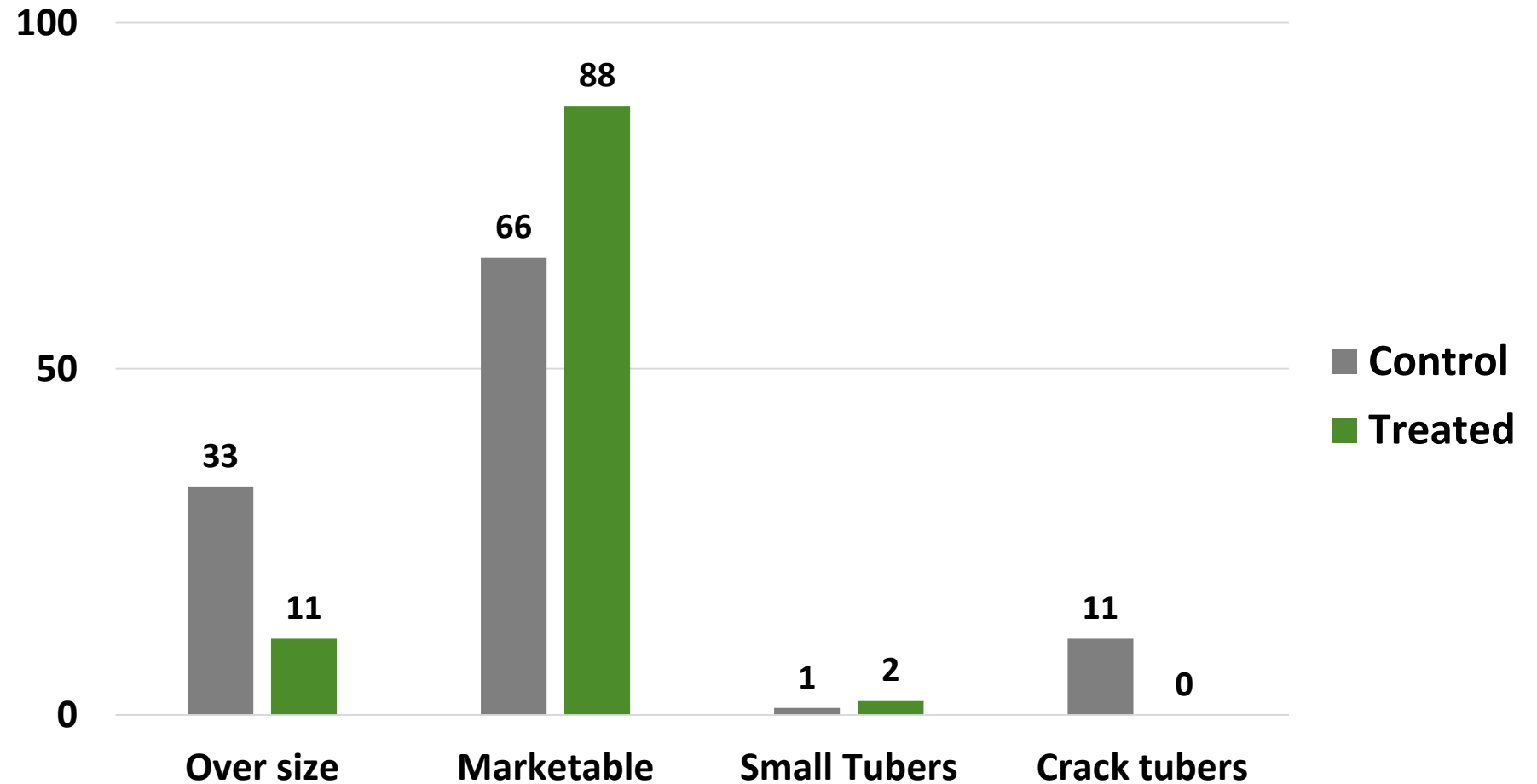
Weight of Potatoes from 1 sq. m area (g)



Result: Yield



% Weight of Potatoes from 1 sq. m in each size category



Conclusions



Tradecorp Seed Potato Package

- ✓ Increased number of uniform size tubers.
- ✓ Increased in marketable yield by 88%
- ✓ Increase in total yield by 42%
- ✓ No cracking in treatment v/s 11% in Control
- ✓ ROI to the grower – 1:5.8
- ✓ Extra Yield 10 T /ha, Mkt price @ Rs. 5 /Kg, Treatment Cost Rs. 8650 / ha

