



Groundwork BioAg Trial summary - Rootella Potato

November 2023

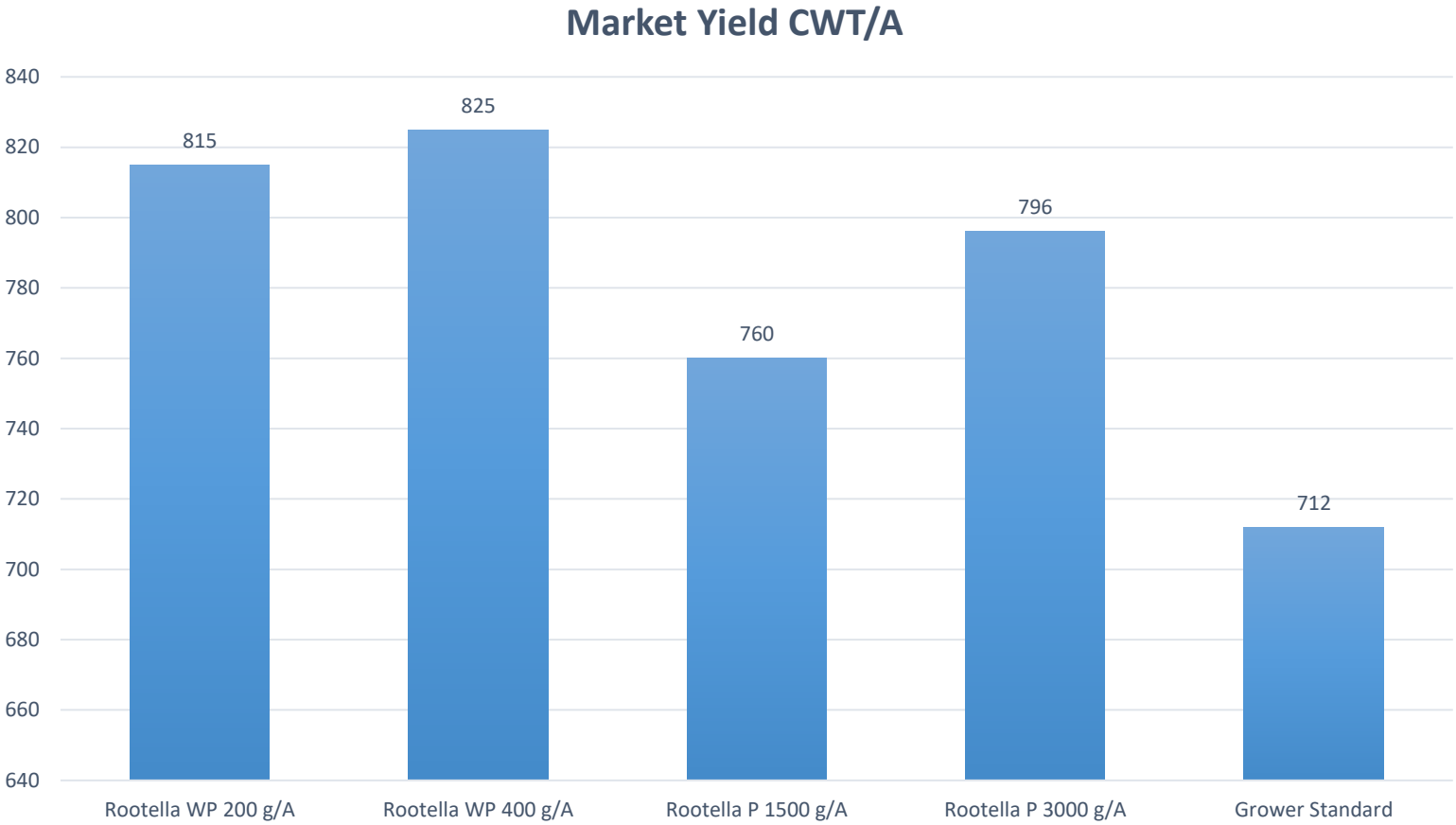
LET YOUR GROUND WORK™

Washington – USA 2018

Investigator/Company name	
City	Othello
State	WA
Planting Date	09/05/2018
Vine Kill Date	13/09/2018
Harvest Date	13/09/2018
GPS coordinates Lat,Long format	46.79277, 119.0467
Irrigation	Yes, Pivot
Potato Variety	Russet Burbank

2018 WSU Rootella Trial

Treatment	Gross ^A \$/A	Total Yield CWT/A	Market Yield CWT/A	US 1s > 4 oz %	US 2s > 4 oz %	Culls & < 4 oz %	US 1 & 2s > 6 oz %	Specific Gravity	Average Tuber	
									Weight oz	Number per Plant
1 Rootella WP 200 g/A	5115	828	815	77	2	21	54	1.0785	7.8	9.4
2 Rootella WP 400 g/A	4990	841	825	75	3	22	51	1.0786	7.5	9.7
3 Rootella P 1500 g/A	4380	783	760	73	3	24	49	1.0778	7.4	9.3
4 Rootella P 3000 g/A	4770	816	796	75	3	22	52	1.0785	7.3	9.7
5 Grower Standard	4620	719	712	80	2	18	60	1.0756	8.0	7.9
LSD ^B										1.35
pValue	ns	ns	ns	ns	ns	ns	ns	ns	ns	0.0816



Rootella WP is equivalent to Rootella F.

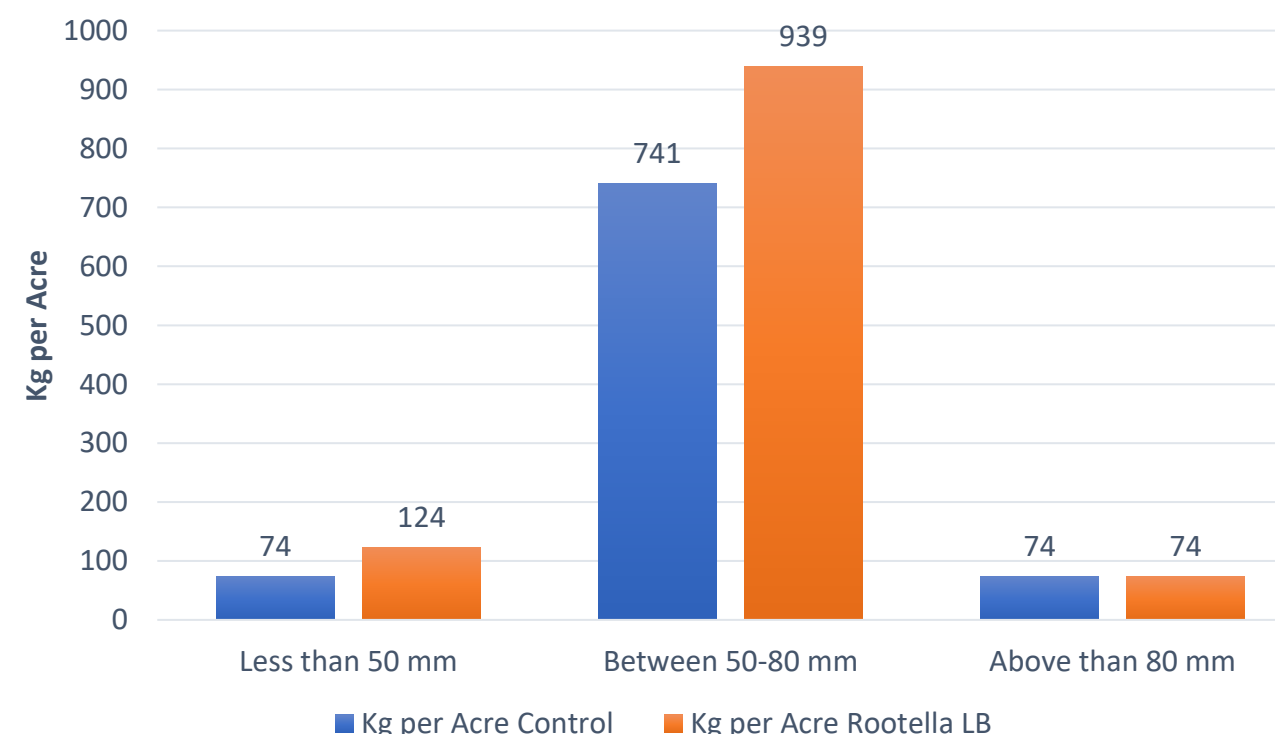
CWT/A is the average tuber yield in hundredweights per acre.

100 Cwt/ac = 11208 kg/ha

Kibbutz Nirim – Israel 2023

- Crop - Potato
- Location – Kibbutz Nirim, E"23.8'34°27 N"09.3'31°20
- Grower - Elan Baruch, Nirim Agricultural Cooperative
- Variety - Tyson
- Phenological stage at application - Seedlings
- Planting date - 7.1.22
- Sampling date - 30.3.23
- Irrigation method - Sprinkler
- Application method - in furrow
Mixing in the spray tank with pesticides.
- Pesticides:
 - Mirador (Azoxystrobin)
 - Actara (Thiamethoxam)
- Spray volume - 1 gallon per acre (10 liters per dunam)

Total potato tubers weight Kg/Acre -added P



Total potato tubers weight Kg/Acre -added P				
Kg per Acre	Treatments	Less than 50 mm	Between 50-80 mm	Above than 80 mm
	Control	74	741	74
	Rootella LB	124	939	74
		67%	27%	0%

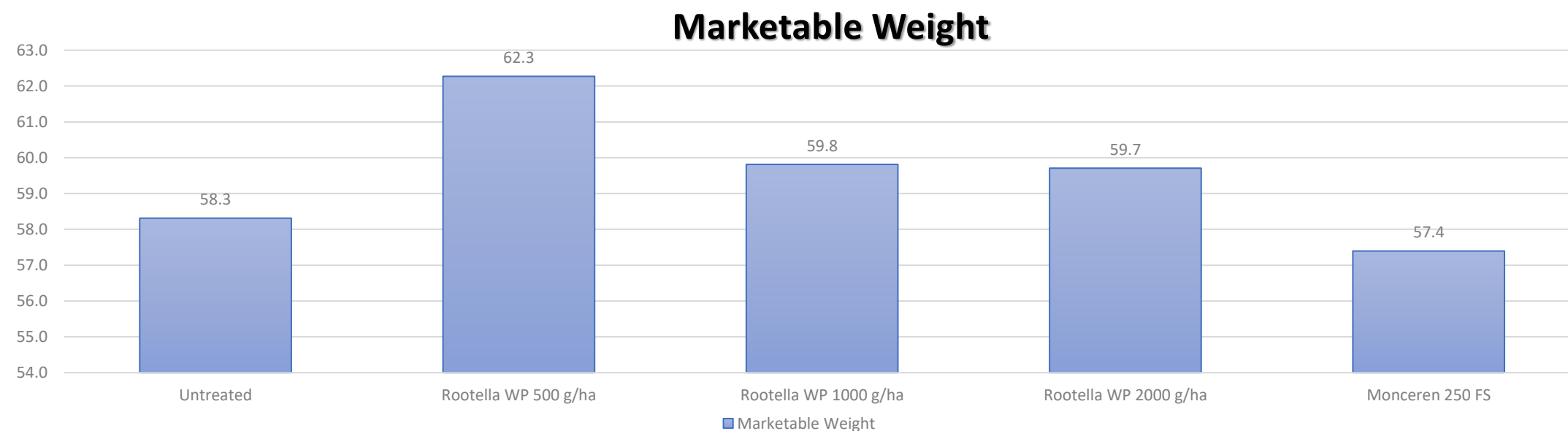
Potato - Belgium 2017

- ✓ Trial: Rootella WP on Bintje potatoes, conducted by Redebel s.a. in 2017
- ✓ Treatments:
 - Untreated
 - Rootella WP 500 g/ha
 - Rootella WP 1000 g/ha
 - Rootella WP 2000 g/ha
- ✓ Yield parameters measured:
 - Total tuber yield
 - Grade 1 tuber yield
 - Grade 2 tuber yield
 - **Marketable tuber yield**

Treatment	Total Weight	Weight Grade 1	Weight Grade 2	Marketable Weight
Untreated	60.1	19.8	38.5	58.3
Rootella WP 500 g/ha	64.4	20.3	42.0	62.3
Rootella WP 1000 g/ha	61.8	19.2	40.6	59.8
Rootella WP 2000 g/ha	61.8	19.7	40.0	59.7
Monceren 250 FS	59.4	20.4	37.0	57.4

Potato / Belgium

Year	Location	Rootella [t/ha]	Control [t/ha]	Improvement [t/ha]	Improvement [%]
2018	Belgium	62	58	4	7%



Belgium-USA-Israel

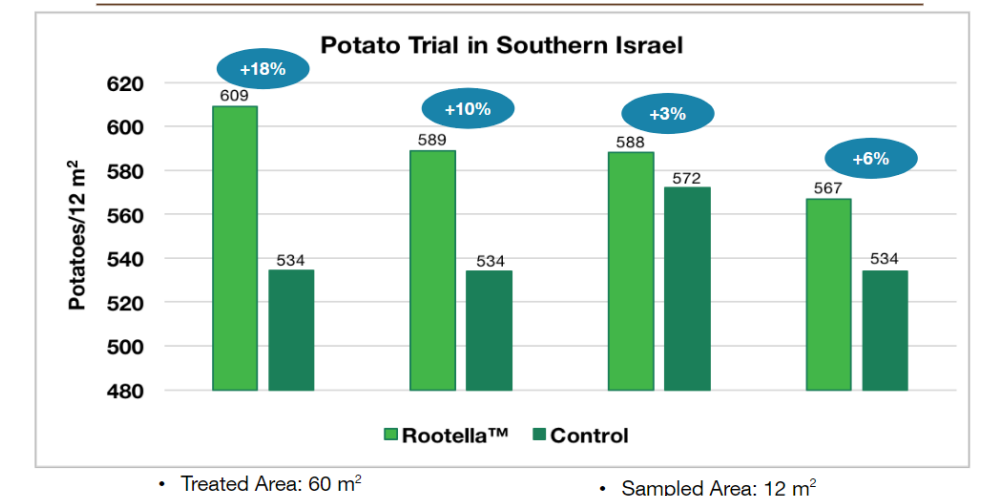
Potatoes

- 2 Rootella[™] treatments – Rootella P[™] and/or WP[™]
- Plot sizes(s): USA – 0.25 acres; Israel – 2 to 20 m²
- Replicates: 3-4



Site	Varieties	Yields (Control to Treated)	Yield Differences
Belgium (Kreglinger collaboration)	Bintje	From 58 to 62 tonnes/ha.	+ 2 to 7%
Indiana, USA	Kennebec (Organic)	From 47 to 100 lbs.	+ 112.8%
Halutza, Israel	Brooke	From 520 to 609 potatoes/plot	-3 to + 14%
Moshav Tzofit, Israel	Canberra	61 to 73 kg	+ 7 to 20%

Potato Trial in Halutza, Israel



A close-up photograph of a person's hand holding a large quantity of small, brown, granular material, likely fertilizer or seed. The granules are falling from the hand in a stream. The background is a blurred green field of crops. A large green diagonal shape is overlaid on the left side of the image.

Thank you