

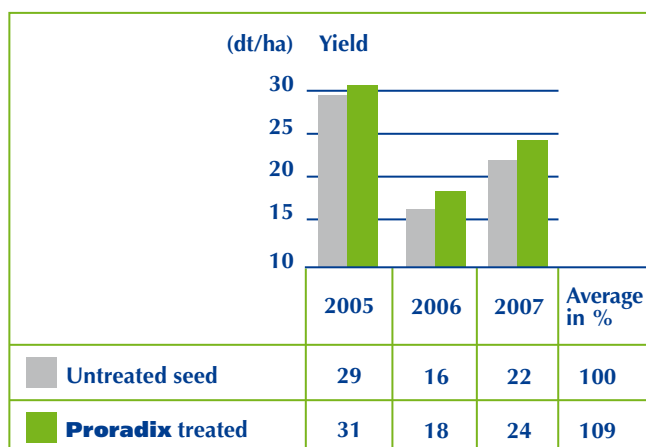
Proven quality and yield increase: The results of our impact tests

Orders for Seed Treatment	Page 2
ProradixAGRO	Page 3
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Proven quality and yield increase

Praxis tests on Lupines in Bocksee (Mecklenburg-Vorpommern)

Realisation: Saatgut Steinach
Test year: 2005-2007



Praxis tests on Lupines in Steinach (Bayern)

Realisation: Saatgut Steinach
Test year: 2008

Yield (dt/ha)	
Untreated seed	37
Proradix treated	45

Proven quality and yield increase

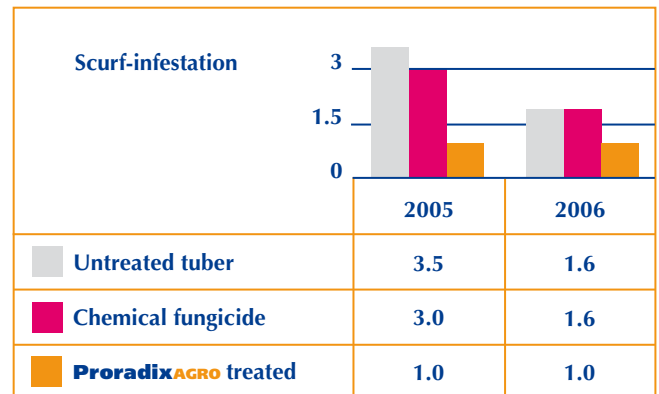
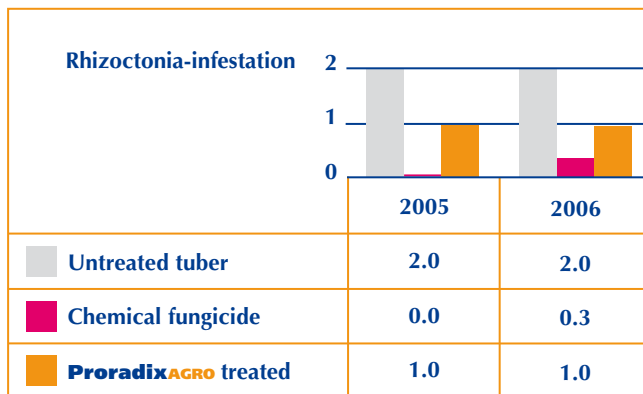
Praxis tests on potatoes in the Netherlands

Realisation Innoventis

Test year: 2005, 2006

Sort: Agria

The infestation with scurf (*Streptomyces scabies*) was evaluated on the Plant-Directorate(PD)-reference scale of 0-4 and with Rhizoctonia on the scale of 0-3 (0 = no infestation, 1 = light infestation, 2 = moderate infestation, 3 = strong infestation)



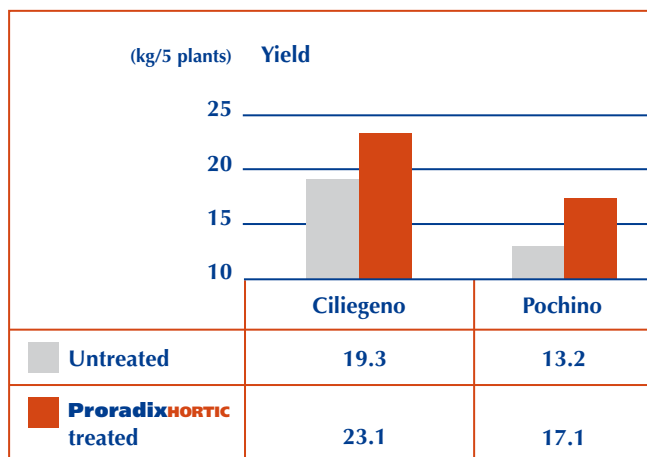
Proven quality and yield increase

Praxis test on tomatoes in Italy

Realisation: Universität Catania

Test year: 2006

Sort: Ciliegino, Pochino

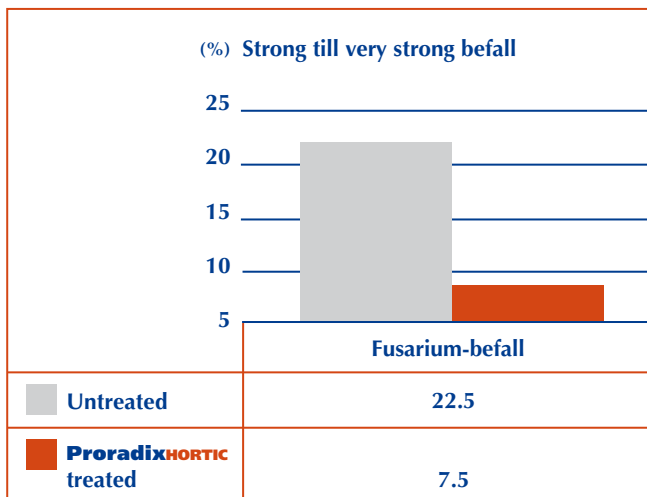


Praxis test on cucumber against *Fusarium* in the Netherlands

Realisation: Pim Paternotte, Wageningen UR Glastuinbouw by EPPO-directives

Test year: 2008

Sort: Aramon RZ

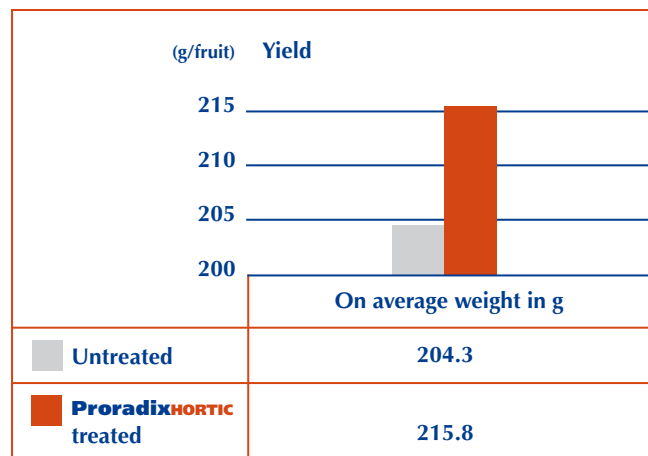
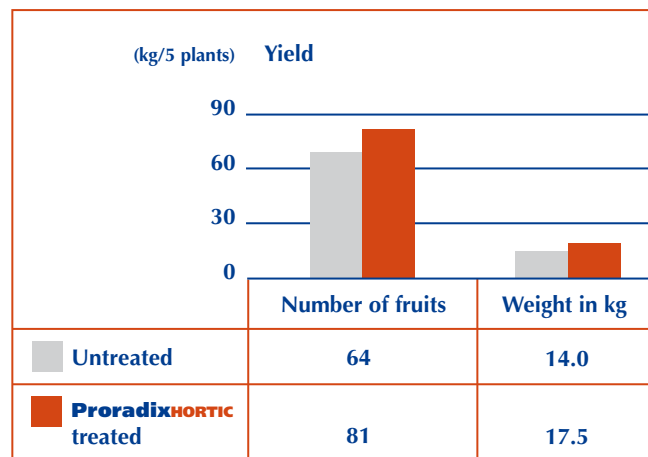


Praxis tests on tomatoes in Italy

Realisation: Blueline

Test year: 2005

Sort: Senior



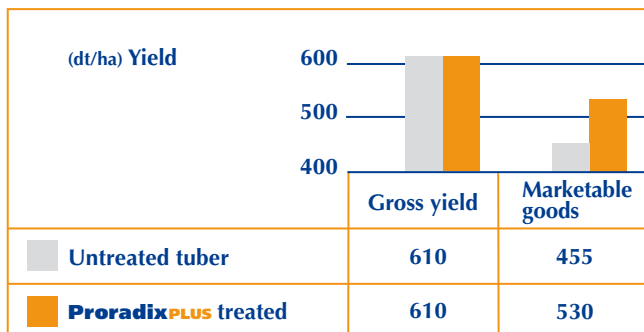
Proven quality and yield increase

Praxis tests on potatoes in Sweden

Realisation: Lovang gruppen

Test year: 2007

Sort: Fontana

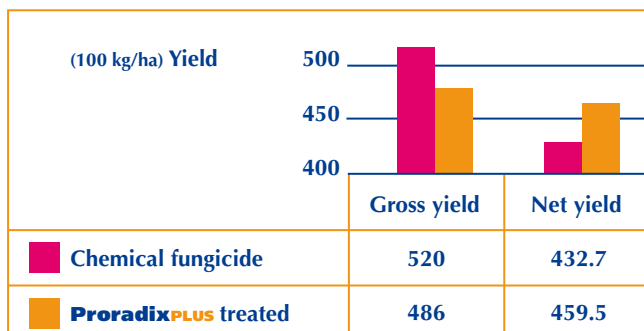


Praxis tests on potatoes in Denmark

Realisation: Carl Heiselberg (Vojens)

Test year: 2007

Sorte: Agata

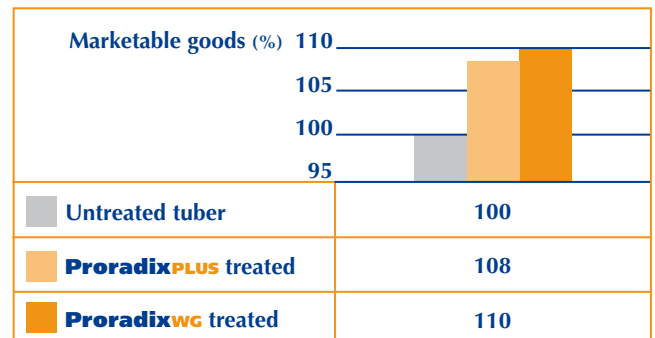
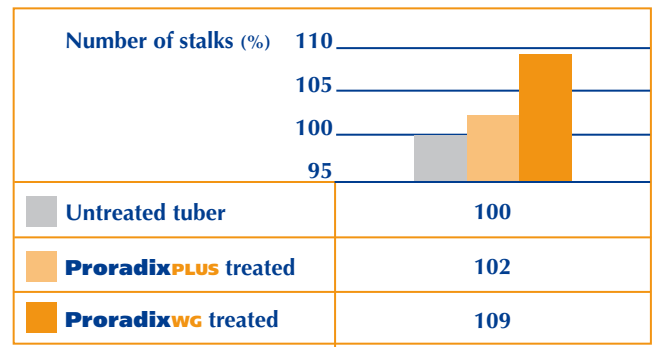


Praxis tests on potatoes in Northern Germany

Realisation: Agro Nord, by EPPO-directives

Test year: 2008

Sort: Arkula



Proven quality increase

Rolled sod test in Germany

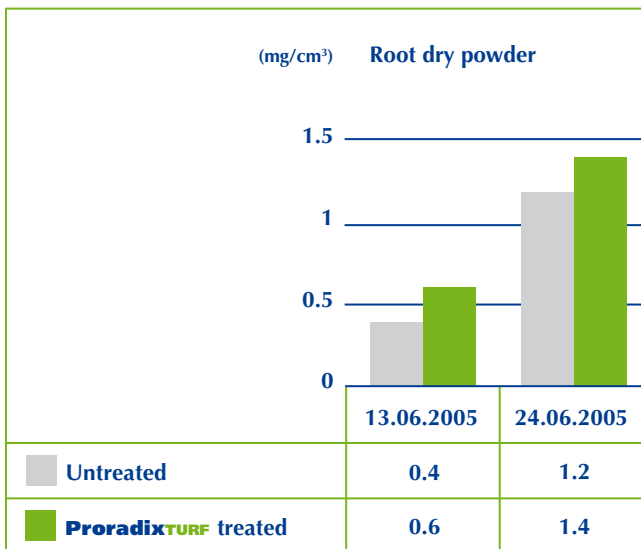
Realisation: Universität Hohenheim

Laying the turf: 31.05.2005

Stock: 70 % Festuca arundinacea and 30 % Poa pratensis

Application: Proradix-solution on the Planum

Sampling: 13.06.2005 and 24.06.2005



Illustrated documentation of the rolled sod test
(on the left untreated, on the right Proradix TURF treated)



Pot test in Switzerland

The tests with pots showed here document the stronger root growth after the seed treatment.

Realisation: Sourcon Padena and partners

Test year: 2006



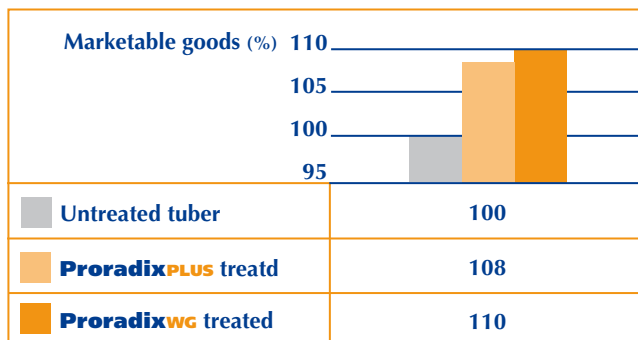
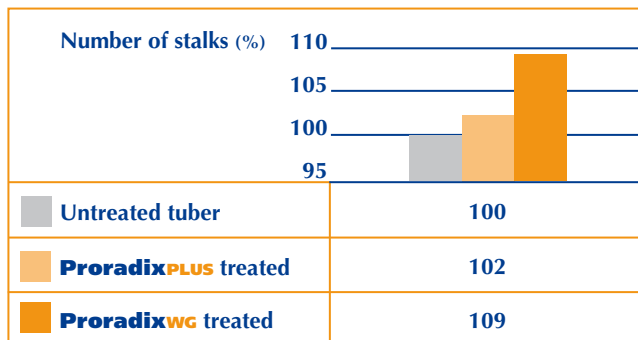
Proven quality and yield increase

Praxis tests on potatoes in Northern Germany

Realisation: Agro Nord, by EPPO-directives

Test year: 2008

Sort: Arkula

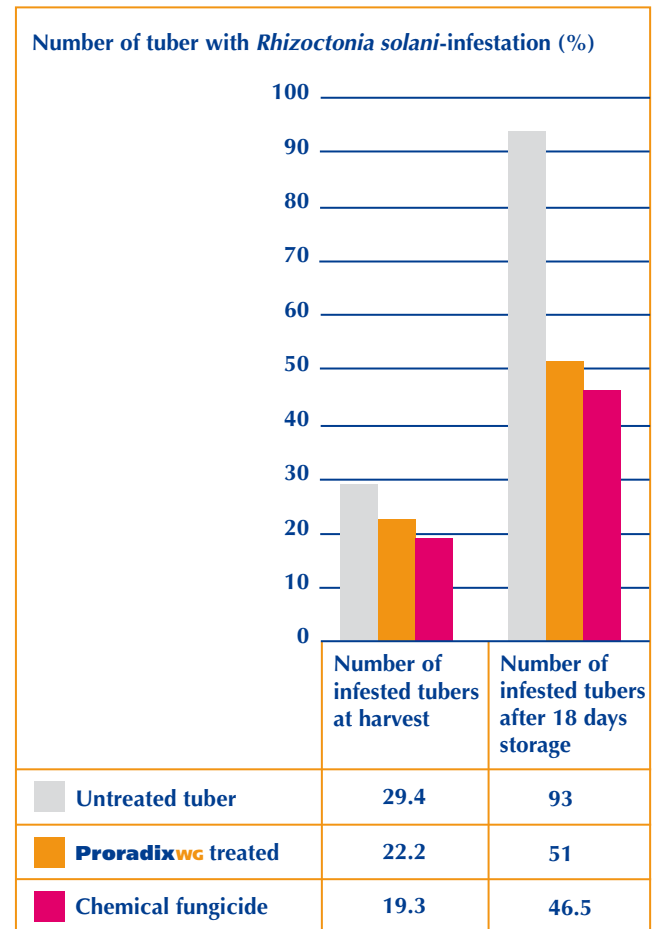


Praxis tests on potatoes in Italy

Realisation: G.Z.S.r.l Ferrara Italien, by EPPO-directives

Test year: 2008

Sort: Agata



Proven quality and yield increase

Praxis tests on potatoes in Northern Germany

Realisation: Agro Nord

Test year: 2007

Sort: Marabel

Gross yield (dt/ha)	
Untreated tuber	379.8
Chemical fungicide	401.3
ProradixWG treated	409.9

	Distribution of gross yield in the sorts (%)		
	< 35 mm	35-55 mm	> 55 mm
Untreated tuber	2.6	87.7	9.8
Chemical fungicide	1.2	80.8	18.1
ProradixWG treated	1.3	94.4	4.4

Praxis tests on potatoes in Korea

Realisation: Hanyoon Industries

Test Year: 2007

Sort: Tuberosum L.

(dt/ha) Yield		
	Pregerminated	Not pregerminated
Untreated tuber	293.8	280.7
ProradixWG treated	344.6	330.9

Praxis tests on potatoes in Southern Germany

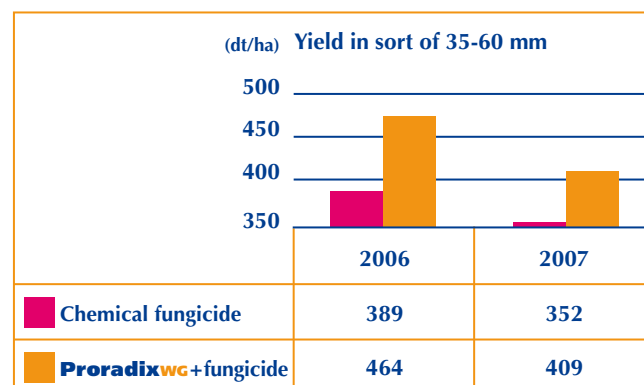
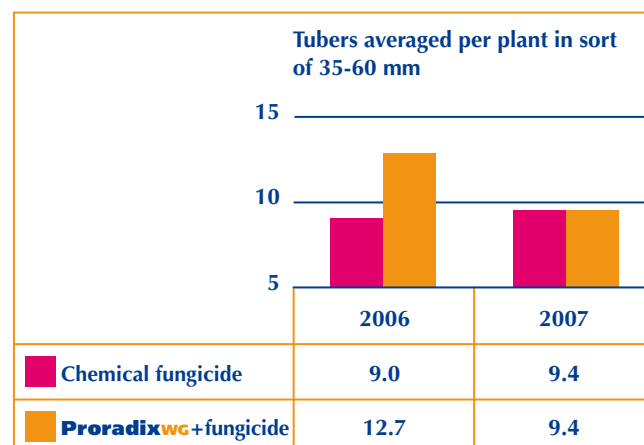
Realisation: Landwirtschaftlicher

Beratungsdienst/Kartoffelanbau

Landwirtschaftsamt Heilbronn

Test year: 2006, 2007

Sort: Selma



Proven quality and yield increase

Praxis tests on 31 sorts of potatoes in Italy

Realisation: Blueline

Test year: 2007

Sorts	Proradix treated (dt/ha)	Un-treated (dt/ha)	Gross yield increase (%)	Yield increase in sort wanted (%)
AGATA	506.2	487.5	3.8	9.0
ALADIN	637.5	606.2	5.2	26.1
ALMERA	768.7	737.5	4.2	33.3
ALTESS	587.5	537.5	9.3	15.6
ANAIS	612.5	562.5	8.9	18.2
AVALON	492.7	462.5	6.7	17.2
BALLERINA	356.2	325.0	9.6	28.7
BEDALIN	625.0	593.7	5.3	24.8
BH96-27	500.0	475.0	5.3	16.5
COLLINA	562.5	512.5	9.8	22.7
CUPIDO	481.2	468.7	2.7	8.3
DALIDA	668.7	656.2	1.9	4.6
PAR99-15	593.7	543.7	9.2	19.2
DAIANA	693.7	631.2	9.9	20.4
DAYTONA	468.7	450.0	6.7	21.2
DENISE	643.7	618.7	4.0	15.7

Sorts	Proradix treated (dt/ha)	Un-treated (dt/ha)	Gross yield increase (%)	Yield increase in sort wanted (%)
DESIREE	618.7	593.7	4.2	16.6
ELFE	731.2	687.5	6.4	25.6
EL PASO	712.5	681.2	4.7	10.5
LAURA	506.2	481.2	5.8	11.0
MADELAINE	512.5	468.7	9.3	19.9
MATADOR	700.0	662.5	9.1	17.6
MONNALISA	637.5	575.0	10.9	17.2
MURATO	618.7	593.7	4.2	7.0
PRIMURA	431.2	406.2	6.2	9.8
RODEO	737.5	656.2	12.3	20.3
TEODORA	562.5	500.0	12.5	14.2
VIRGO	812.5	787.5	3.2	6.6
VIVALDI	656.2	631.2	4.0	10.0
KENNEBEC	686.5	668.7	2.8	3.5
AVERAGE	604.1	568.7	6.2	16.4

Results of 31 sorts:

On average 6.6 % Gross yield increase
(range 1.9 - 12.4 %)

On average 16.4 % yield increase in assortment wanted
(range 3.5 - 33.3 %)

Proven quality and yield increase

Field test on potatoes in Northern Germany on an organic farm

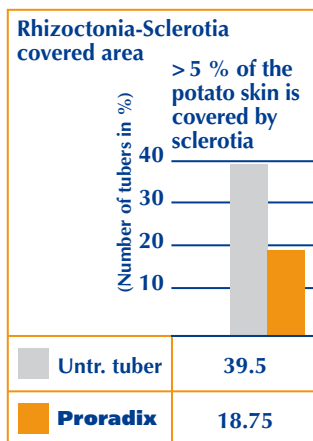
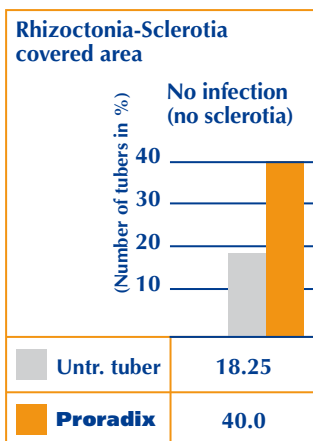
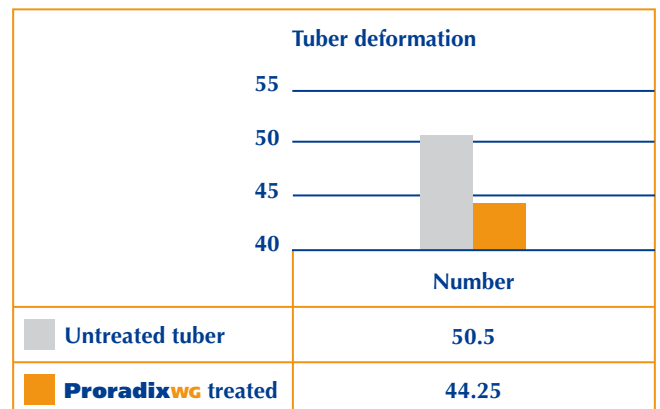
Realisation: Agro Nord

Test area: Dahlwitz-Organic Farm, Test year: 2009

Sort: Marena

	Yield	
	dt/ha	relative
Untreated tuber	234.7	100.0
ProradixWG treated	266.9	113.7

	Fractionation (%)		
	< 35 mm	35-55 mm	> 55 mm
Untreated tuber	22.6	77.4	0.0
ProradixWG treated	9.3	76.4	14.4



Proven quality and yield increase

Praxis tests on potatoes in Northern Germany Reduction of Primary Infestation (Stem-*Phytophthora*)

Realisation: Agro Nord, under EPPO-guidelines

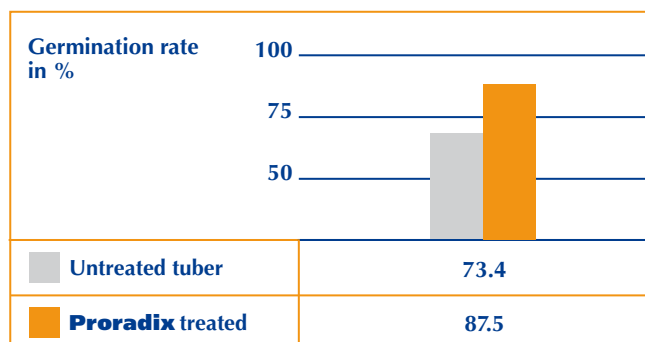
Test year: 2009, Sort: Hansa

	1. Evaluation	2. Evaluation	3. Evaluation	4. Evaluation	5. Evaluation	6. Evaluation	7. Evaluation*
Untreated tuber	0	2.0	3.3	5.8	14.3	35	91.8
Proradix treated	0	0.3	0.6	0.8	1.5	3.5	30.0
Copper treated	0	0.1	0.3	0.3	0.8	2.0	16.3

* The stem infestation found by the 7th evaluation could also arise from adjacent plants, i.e. not all of the stems evaluated here were infested via the tuber.

Test Procedure

- Tubers (variety Hansa) were artificially infested with *Phytophthora* on the 20.04.09 using a pipette.
- Healthy tubers (variety Fasan) were treated in accordance with the test procedure on the 23.04.09.
- Planting was carried out manually on the 24.04.09. Planting points were arranged by the tester at exact intervals of 30 cm for this purpose and firmly tamped down to ensure that rainwater could not run off too quickly. (Sporulation will only occur under damp conditions.)
- The healthy tubers of the Fasan variety being investigated were then planted.
- The tester then laid the infested tubers of the Hansa variety directly on top of the Fasan tubers being investigated and lightly heaped up soil around them. (Two different varieties were used to ensure that only evaluation of the germinated, treated plants took place.)
- The germinated plants of variety Hansa were removed.



Praxis tests on potatoes in South Germany Severe Infestation with *Erwinia* und *Phytophthora*

Realisation: Sourcon Padena

Test year: 2008

Sort: Rosara

Proven quality and yield increase

Praxis tests on iceberg lettuce in Germany

Realisation: Agro Nord

Test year: 2008, Planting: 13.08.08

Sort: Stylist

	Yield with cover leaves (Average weight/g)
Untreated ice lettuce	720.78
50 g <i>Salavida</i>	768.65
50 g <i>Salavida</i> + chemical standard sprayed	758.85
50 g <i>Salavida</i> + 50 g <i>Salavida</i> sprayed	811,45
2-times chemical standard	800.20

	Closedness of the lettuce underside (lettuce not cleaned) Review scale				
	very open	open	medium	closed	very closed
Untreated ice lettuce	0.00	30.00	70.00	0.00	0.00
50 g <i>Salavida</i>	0.00	0.00	10.00	90.00	0.00
50 g <i>Salavida</i> + chemical standard sprayed	0.00	0.00	2.50	97.50	0.00
50 g <i>Salavida</i> + 50 g <i>Salavida</i> sprayed	0.00	0.00	0.00	100.00	0.00
2-times chemical standard	0.00	0.00	0.00	100.00	0.00

Ranking: 1 = very open, 3 = open, 5 = medium, 7 = closed, 9 = very closed

Praxis tests on salad in Germany

Realisation: Dienstleistungszentrum Ländlicher Raum
(DLR), Rheinpfalz

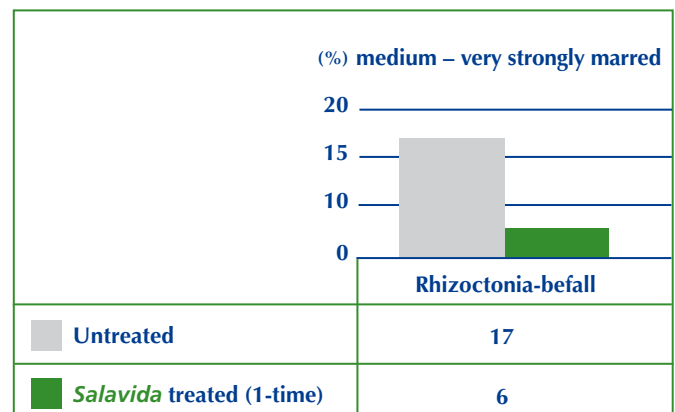
Test year: 2008

Sort: Nadine RZ

Seed: 04.08.08

Planting: 02.09.08

Medium to a very strong befall caused by *Rhizoctonia*, means that the befall can only be removed with much more cleaning effort. The lettuce is distinctly smaller and only limitedly marketable or not at all.



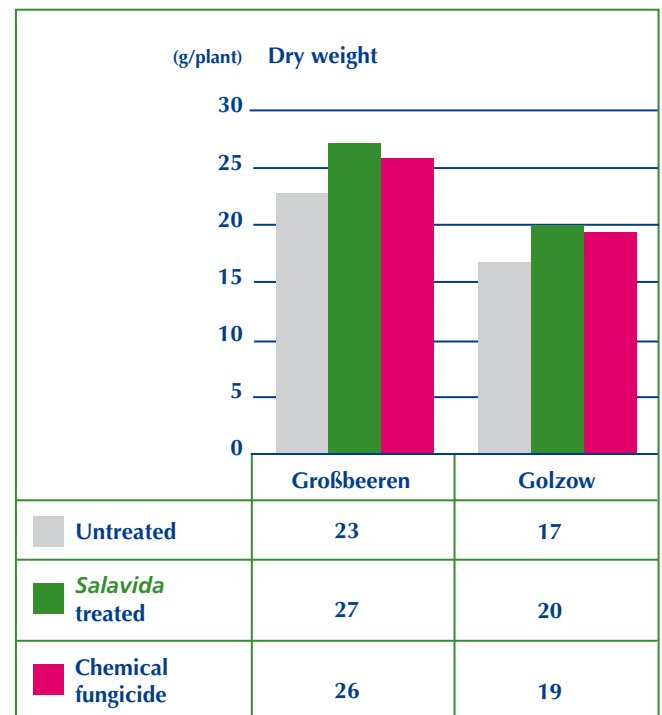
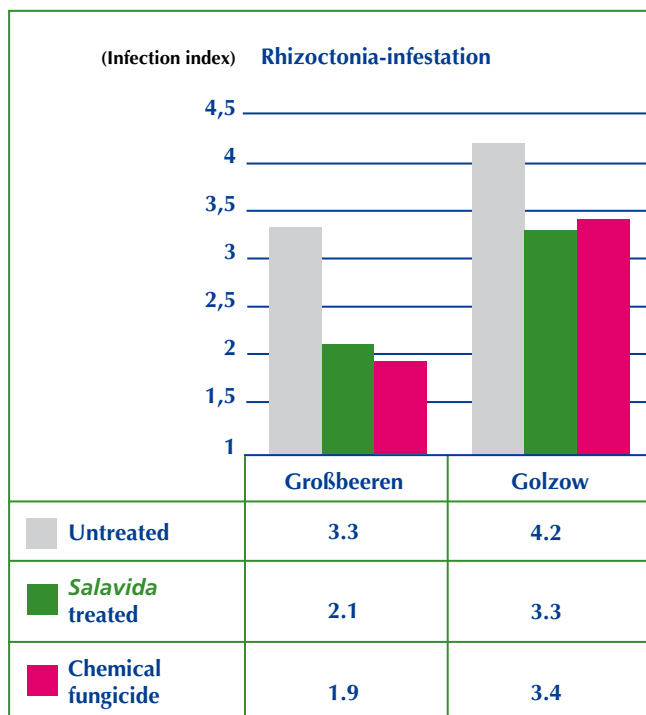
Proven quality and yield increase

Praxis tests on lettuce in Germany

Realisation: Institut für Gemüse und Zierpflanzenbau, Großbeeren

Test year: 2004, Test locality: Großbeeren and Golzow

Sort: Nadine



The befall caused by Rhizoctonia was evaluated on a scale from Kofeet et al. Thereby: Index 1 – no befall and Index 7 – very strong befall (not marketable now)

Praxis test on lettuce in Germany

Realisation: Dienstleistungszentrum Ländlicher Raum (DLR), Rheinpfalz

Test year: 2007, Test locality: Schifferstadt

Sort: Alanis

Seed: 31.07.07, Planting: 21.08.07

Applikation: Salavida (*Pseudomonas sp.*) 1-time, with 10 ml/seedling, 1 day before planting

Middle to a very strong infestation caused by Rhizoctonia, means that the infestation can only be removed with much more cleaning effort. The heads of lettuce are distinctly smaller and are only limitedly marketable or not at all.

