Appendices

Table A 1. Group statistics and the calculated t for local and resistant varieties

Item	Unit	Local	Resistant	Mean difference	Std Local	Std Resistant	Calculated t
Area	acre	1.0	1.3	0.3	0.9	1.1	2.056
Seed rate	kg/acre	27.4	28.0	0.6	3.8	3.6	1.273
FYM	kg/acre	1989.7	1816.3	-173.4	1424.9	1544.2	-0.877
Urea	kg/acre	15.4	23.8	8.5	19.2	28.3	2.570
Suphala	kg/acre	3.5	6.1	2.7	10.8	16.4	1.410
Seed treatment	kg/acre	0.0	0.0	0.0	0.0	0.0	-5.856
Chemical spray	kg/acre	0.9	0.0	-0.9	0.7	0.0	-14.135
Herbicide	kg/acre	13.7	15.1	1.4	7.2	8.3	1.333
Labor	manday/ acre	68.6	70.3	1.7	5.7	6.3	2.128
Yield	kg/acre	1242.4	1544.5	302.0	242.5	410.3	6.521
Gross return	Nu/acre	27333.8	33978.0	6644.2	5335.6	9027.0	6.521
Total variable cost	Nu/acre	16026.4	16318.6	292.2	1473.0	1764.0	1.340
Gross margin	Nu/acre	11307.4	17659.4	6352.0	5291.5	8581.0	6.501
Cost of production	Nu/kg	13.3	11.2	-2.2	2.6	2.6	-6.272
Material cost	Nu/acre	5732.1	5776.3	44.2	1229.1	1379.9	0.254
Return to material cost	times	3.1	4.1	1.1	1.0	1.4	6.249
Labor cost	Nu/acre	10294.3	10542.3	248.0	852.2	927.5	2.091
Return to labor cost	times	2.1	2.7	0.6	0.6	0.9	5.911

Degree of freedom $(n_x + n_y - 2) = 235$

n_x: Farmers growing local variety (99)

n_y: Farmers growing resistant variety (138)

Table A 2. Group statistics and calculated t of non-adopters and adopters of blast management technologies on local varieties

Item	Unit	Non-adopter	Adopter	Mean difference	Std Non-adopter	Std Adopter	Calculated t
Area	Acre	0.7	1.1	0.5	0.6	0.9	2.522
Seed rate	kg/acre	26.2	28.0	1.8	3.6	3.8	2.263
FYM	kg/acre	1680.9	2130.5	449.6	1164.8	1515.9	1.466
Urea	kg/acre	20.8	12.9	-8.0	22.7	17.0	-1.946
Suphala	kg/acre	1.0	4.6	3.6	5.4	12.4	1.556
Seed treatment	kg/acre	0.0	0.0	0.0	0.0	0.0	3.568
Spray	kg/acre	0.0	1.2	1.2	0.0	0.6	11.939
Herbicide	kg/acre	16.3	12.5	-3.8	7.5	6.9	-2.460
Labor	manday/acre	69.6	68.2	-1.4	5.4	5.8	-1.173
Yield	kg/acre	1150.3	1284.5	134.2	245.1	231.1	2.629
Gross return	Nu/acre	25305.7	28258.3	2952.6	5391.7	5084.6	2.629
Total variable cost	Nu/acre	15959.6	16056.8	97.2	1386.4	1519.9	0.303
Gross margin	Nu/acre	9346.1	12201.5	2855.4	5220.5	5114.8	2.559
Cost of production	Nu/kg	14.4	12.9	-1.5	2.8	2.4	-2.728
Material cost	Nu/acre	5516.9	5830.2	313.3	1055.3	1296.0	1.180
Return to material cost	Times	2.7	3.2	0.5	1.0	1.0	2.145
Labor cost	Nu/acre	10442.7	10226.6	-216.2	811.4	867.5	-1.173
Return to labor cost	times	1.9	2.2	0.3	0.5	0.6	2.582

Degree of freedom $(n_x + n_y - 2) = 97$

n_x, n_y: Non-adopters (31) and adopters (68) of technology on local variety respectively.

Curriculum Vitae

Name:	Dorjee
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Educational Background:	
1982-1990	Jigme Sherubling High School, Khaling, Bhutan
1990-1992	Pre-university (Plus 2) Sherubtse College, Kanglung, Bhutan
1993-1997	B.Sc. Agriculture Marathwada Agricultural University, Parbhani, Maharashtra State, India
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1997	Trainee officer, Agriculture Sector, Thimphu District Administration, Thimphu, Bhutan
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