

Estimated number of beneficiaries and poverty reduction effects

Technology	Number of beneficiaries				Poverty reduction	
	Lower Adoption		Higher Adoption		Lower Adoption	Higher Adoption
	House holds ['000]	Persons ['000]	House holds ['000]	Persons ['000]	Persons ['000]	Persons ['000]
Recovery from BBTV	2,018	9,674	4,036	19,348	638	1,285
BXW management: GM-resistant varieties	2,173	10,745	4,346	21,489	155	311
BXW management: cultural practices	3,217	15,665	6,434	31,329	1,611	3,287
Cropping system intensification	1,397	6,428	2,794	12,856	342	686
Resistant EAHB (NEW)	934	4,326	1,869	8,652	953	1,935
Resistant EAHB (RELEASE)	634	2,937	1,267	5,874	389	782
Resistant plantain (NEW)	1,979	8,820	3,957	17,641	390	800
Resistant plantain (RELEASE)	1,696	7,566	3,393	15,133	247	50
Foc A: Quarantine - Scenario 1*	2,014	9,772	-	-	836	-
Foc A: Quarantine - Scenario 2**	1,810	8,799	-	-	738	-
Foc A: Quarantine - Scenario 3***	1,489	7,200	-	-	639	-
Foc B: Integrated Management	817	3,938	1,634	7,875	79	157
Foc C: Resistant cultivars	1,475	7,204	2,950	14,408	430	865
Foc D: GM resistant cultivars	306	1,371	612	2,743	44	89

Remarks: Lower adoption scenario: analysis with 50% lower adoption ceiling; NPV calculated using a real interest rate of 10%; *Scenario 1: Doubling of arrival time and 50 percent reduced increase of loss rate (12.50%) once Foc reaches the country as compared to a scenario without intervention; **Scenario 2: Arrival time as in Scenario 1 minus 5 years; 50 percent reduced increase of loss rate (12.50%) once Foc reaches the country; ***Scenario 3: Arrival time as in Scenario 1 minus 5 years; 25 percent reduced increase of loss rate (18.75%) once Foc reaches the country; **Source:** own illustration based on own calculations

Regional distribution of benefits

Technology	Adoption area after 25 years (higher adoption scenario)						
	Africa		LAC		Asia/Pacific		ALL
	['000 ha]	Share [%]	['000 ha]	Share [%]	['000 ha]	Share [%]	['000 ha]
Recovery from BBTV	706	87	-	-	101	13	807
BXW management: GM-resistant varieties	872	100	-	-	-	-	872
BXW management: cultural practices	1,287	100	-	-	-	-	1,287
Cropping system intensification	1,051	84	69	5	134	11	1,253
Resistant EAHB (NEW)	1,185	100	-	-	-	-	1,185
Resistant EAHB (RELEASE)	795	100	-	-	-	-	795
Resistant plantain (NEW)	646	62	371	35	31	3	1,049
Resistant plantain (RELEASE)	548	61	315	35	35	4	898
Foc A: Quarantine - Scenario 1*	203	46	44	10	194	44	441
Foc A: Quarantine - Scenario 2**	181	46	39	10	175	44	396
Foc A: Quarantine - Scenario 3***	157	47	39	12	135	41	330
Foc B: Integrated Management	6	2	21	6	317	92	344
Foc C: Resistant cultivars	217	35	23	4	373	61	614
Foc D: GM resistant cultivars	18	14	3	2	106	83	127

Remarks: Lower adoption scenario: analysis with 50% lower adoption ceiling; NPV calculated using a real interest rate of 10%; *Scenario 1: Doubling of arrival time and 50 percent reduced increase of loss rate (12.50%) once Foc reaches the country as compared to a scenario without intervention; **Scenario 2: Arrival time as in Scenario 1 minus 5 years; 50 percent reduced increase of loss rate (12.50%) once Foc reaches the country; ***Scenario 3: Arrival time as in Scenario 1 minus 5 years; 25 percent reduced increase of loss rate (18.75%) once Foc reaches the country; Given that quarantine and surveillance measures are executed at the national level, we assumed that all farmers "adopt" or benefit from the technology once the country implements the Foc A quarantine schemes. The Foc A figures in this table represent only the area where Foc would spread and could be contained; **Source:** own illustration based on own calculations