

Table 3. Impact levels.

CATEGORY	ASPECT	LOW (1)	MEDIUM (2)	HIGH (3)
GERMPLASM	Diversity	Recoverable from original and several other sources	Recoverable from few sources	Recoverable from only 1 to 3 sources to total loss.
	Availability	Delays availability by one season or cycle for seed, or by one year for clonal.	Delays availability by two-three seasons or cycles for seed, or by two-three years for clonal.	Delays availability by more than three seasons or cycles for seed, or by more than three years for clonal.
	Viability	0-1% loss for seed or 10% loss for clonal in one year	2-5% loss for seed or 11-20% loss for clonal in one year	Above 5% loss for seed or above 20% loss for clonal in one year
	Purity/Integrity	0-0.1% genetic change	0.2-5% genetic change	Above 5% genetic change
INFORMATION	Quality	0-5% gap in data or 0-5% loss in data accuracy or above 91% usefulness	6-10% gap in data or 6-10% loss in data accuracy or 30-90% usefulness	Above 10% gap in data or 10% loss in data accuracy or less than 30% usefulness
	Access/dissemination	Loss of accessibility by countries outside network	Loss of accessibility by non-CGIAR centers within crop-based network	Loss of accessibility by other CGIAR centers and within center
PEOPLE	Complement	Reduces manpower requirement by 0-10%	Reduces manpower requirement by 11-20%	Reduces manpower requirement by more than 20%
	Efficiency	Targets met on time or with 2 days delay	3 days delay	More than 3 days delay
	Health	Discomfort to minor first aid	Restricted work	Permanent partial or total disability
	Retention	2-3 years on the job	1 year on the job	Less than 1 year on the job
ENVIRONMENT	Discharges	With slight physical or chemical changes to environment. Limited within building or operational area	With minor environmental damage but no adverse effects on current conditions. Can be contained within the institute premises.	With local environmental damage that could affect neighborhood and partially interfere with activities. May extend to immediate neighbors.
	New pests and diseases	Spread limited within screenhouse or laboratory building	Spread within institute farms	Spread beyond institute farms
	Chemicals used	Low toxicity	Moderate toxicity	High toxicity
ASSET/ FACILITY	Cost of damage	US\$ 0-500	US\$ 501-5,000	More than US\$ 5,000
	Resource management	0-20% used on uncharacterized germplasm	21-30% used on uncharacterized germplasm	More than 30% used on uncharacterized germplasm
OPERATIONS	Disruption	Negligible or brief disruption affecting 1 system.	Brief disruption affecting more than 1 system.	Partial shut-down affecting one service or processing line to total shutdown.
	Cost of repair	US\$ 0-500	US\$ 501-5,000	More than US\$ 5,000
LEGAL	Policy level	Institute	Reporting, audit and inspection requirements by external stakeholders: customer, host community, industry (ISTA).	Legal requirements in reporting, inspection, monitoring by national government and NGOs, and clearance from international bodies or treaties such as FAO, SGRP, ITPGRFA, CBD
	Ownership	No limits on global ownership or vulnerable to claims by a country.	Vulnerable to ownership claims by a community.	Vulnerable to ownership claims by a tribe or private company.
	Liability	Short, temporary ban on genebank staff at fault. No fines.	Short, temporary cessation of genebank operations. Below \$1M fines.	Extended to permanent cessation of genebank operations. Over \$1M fines.
REPUTATION	Coverage	Damage confined within genebank unit or department, or requesting laboratory.	Damage confined within center or requesting institute.	Damage beyond center or requesting institute to country/national and international sphere