

Examples of risk-reducing activities for different hazard types

Flood		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Flood warning system - Trained volunteers - Safe refuge centre (with water, toilets, lights etc) - Boat(s) and trained crews - Teaching children to swim - Emergency evacuation drill - Create safe escape pathways, ensure community members know them - Safe storage of valuable assets, including documents, seeds - Savings schemes: think how to protect the savings - Jerrycans and purification tablets for clean water - Emergency supplies 	<ul style="list-style-type: none"> - Protecting water sources (To prevent contamination of drinking water. e.g., covered wells, elevated water pumps) - Improved house designs - Storm drains, flood diversion channels and dykes - Houses on stilts (legs) or raised plinth - Alternative crops, or changed cropping patterns - Flood-resistant varieties of crops - Floating vegetable gardens - Tree plantation, especially on slopes and embankments 	<ul style="list-style-type: none"> - For improved government warning system - For repair and maintenance of river embankments - For bank erosion protection (eg gabion) - For dredging of riverbeds - For more flood shelters - For construction of escape routes across private land

Drought		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Water storage ponds, tanks - Rainwater harvesting from roofs - Rainwater harvesting using plastic sheets - Improved food storage (to reduce losses from pests) - Grain banks (family and community level) - Improve access to cash - Livestock health improvement - Livestock herd reduction - Fodder stocks for animals - Drought Early Warning System: Use climate and weather forecast. Droughts are mostly seasonal, risks at regular, predictable time of the year (Yet predicting peak is difficult) 	<ul style="list-style-type: none"> - Conservation farming methods (conservation tillage, Zai pit) - Half-moon pits, cross-dams, contour bunding, sub-surface dams etc - Small-scale irrigation schemes; drip-irrigation; foot- or animal-powered pumps - Drought-resistant crop types or crop varieties - Livelihood diversification - Alternative cropping patterns (E.g., intercropping) - Planting trees and fodder grass 	<ul style="list-style-type: none"> - For improved government drought warning schemes - For better safety-net mechanisms for poor people - For more tanker deliveries of water - For more efficient watershed management - Against bore well water abstraction, drying up shallow well

Landslides		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Emergency tools stored outside building - Teams of volunteers, trained and equipped with tools for search and rescue - Vigilance during/after heavy rain for soil cracks, tree/post movement, changes in water colour or flow of streams - Warning system and rapid evacuation plans 	<ul style="list-style-type: none"> - Plantation of trees to stabilise slopes - Storm drains to carry away rainwater from slopes - Low walls along the contour of the slope - Gutters to catch rainwater from roofs and channel to a tank or drain - Avoid cutting into slopes for construction 	<ul style="list-style-type: none"> - For legislation to prevent building on unstable slopes - For legislation on tree-cutting on sloped land

Windstorms		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Warning system – different levels, then evacuation signal - Community evacuation plan - Safe refuge centres (with water, toilets and light) - Wooden boards nailed over house windows - Guy-ropes onto house structure; if available, large net over the roof with weights - Safe storage of valuable items, eg in plastic bags or buried underground - Store food and water for 2–3 days - Trained volunteer teams - Emergency kit for ‘quick-run’ bag 	<ul style="list-style-type: none"> - Improved house construction, especially roof structure - Tree plantation to form shelter belts - Sheltered location and best orientation for houses - Alternative crops which grow outside windstorm season - Storm drains to take water away from houses - Digging and regular cleaning of storm drains 	<ul style="list-style-type: none"> - For improved government warning system - For more storm refuge centres - For laws to control building in unsafe areas - For laws governing design of new buildings - For public buildings to be designated as shelters

Earthquakes		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Emergency kit always at hand – torch, water, whistle - Emergency tools stored outside building - Tall furniture tied to wall - Avoid placing heavy items on high shelves - Practise what actions to take if earthquake starts - Store gas cylinders outside if possible, with wrench to turn off gas supply - Equip open spaces with water supply and emergency latrines 	<ul style="list-style-type: none"> - Build new houses to earthquake-resistant designs; use lightweight roof materials - Reinforce existing buildings to give extra strength - Avoid building on hillsides or in landslide-prone areas - Ensure public buildings (schools, churches, hospitals) are earthquake-resistant 	<ul style="list-style-type: none"> - For creation and enforcement of building regulations - For inclusion of earthquake safety in school curriculum - For public awareness and education campaigns - For improved government search and rescue capability

- Teams of volunteers, trained and equipped for search and rescue		
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Fire		
Preparedness	Mitigation	Advocacy
<ul style="list-style-type: none"> - Alarm system – loud, audible - Fire buckets, hose, water points - Pre-arranged assembly points for displaced and dispersed families - Communication system - Trained volunteer fire-fighters 	<ul style="list-style-type: none"> - Building houses a safe distance from each other - Cooking outside main house - Avoiding use of highly flammable materials, if possible, in house construction - Fire safety campaigns, especially with children and in schools - For two-storey buildings, means of escape via upstairs windows 	<ul style="list-style-type: none"> - For government fire-fighting services in urban areas - For improved access roads, especially into slum areas - For improved fire regulations, and fire drills for school