

**Pests, Weeds and Diseases Selected for
Initial HarvestChoice Biotic Constraints Assessments**

Pests of Wheat
Partner: CIMMYT

Scientific Name	Common Name/Causes
<i>Cochliobolus sativus</i> *	spot blotch
<i>Cochliobolus sativus</i> *	common root rot
<i>Erysiphe graminis</i> *	wheat powdery mildew
<i>Eurygaster integriceps</i> *	sun pest
<i>Fusarium graminearum</i> , <i>F. culmorum</i> ,...	root rot
<i>Fusarium graminearum</i> *	scab
<i>Fusarium graminearum</i> , <i>F. culmorum</i> ...	crown rot
<i>Magnaporthe grisea</i> *	wheat blast
<i>Mayetiola destructor</i> *	hessian fly
<i>Phalaris spp.</i> *	canarygrasses
<i>Puccinia striiformis</i> *	stripe (yellow) rust
<i>Puccinia graminis</i> *	stem rust
<i>Puccinia recondita</i> *	leaf rust
<i>Rumex spp.</i>	dockweeds
<i>Sclerophthora macrospora</i>	downy mildew
<i>Septoria tritici</i> *	leaf blotch

Pests of Maize
Partners: CIMMYT, U. of MN Entomology

Scientific Name	Common Name/Causes
<i>Busseola fusca</i>	maize stalk borer
<i>Cercospora zea-maydis</i>	gray leaf spot
<i>Chilo partellus</i>	maize stem borer
<i>Cicadulina spp.</i>	leafhoppers
<i>Exserohilum turcicum</i>	northern leaf blight
maize dwarf mosaic virus (MDMV)	
maize streak virus	
<i>Puccinia polysora</i>	tropical (southern) corn rust
<i>Puccinia sorghi</i>	common rust
<i>Rhopalosiphum spp.</i> *	grass feeding aphids
<i>Sitophilus zeamais</i>	maize weevil
<i>Striga asiatica</i>	witchweed
<i>Striga hermonthica</i>	purple witchweed
<i>Prostephanus truncatus</i>	large grain borer

Pests of Cassava
Partner: CIAT

Scientific Name	Common Name/Causes
<i>Bemisia tabaci</i> *	whitefly
<i>Cassava brown streak virus (CBSV)</i> *	
<i>Cassava mosaic geminiviruses (CMGs)</i> *	cassava mosaic disease (CMD)
<i>Mononychellus tanajoa</i> *	cassava green mite
<i>Phenacoccus manihoti</i> *	cassava mealy bug
<i>Colletotrichum gleosporioides</i>	cassava anthracnose disease
<i>Planococcus citri</i>	root mealy bug
<i>Xanthomonas axonopodis</i>	cassava bacterial blight (CBB)

Pests of Rice
Partner: IRRI

Scientific Name	Common Name/Causes
<i>Cnaphalocochris medinalis</i> *	leaf roller
<i>Cochliobolus miyabeanus</i> *	brown spot
<i>Hirschmanniella oryzae</i> *	rice root nematode
<i>Magnaporthe grisea</i> *	rice blast
<i>Nilaparvata lugens</i> *	brown planthopper
<i>Pomacea canaliculata</i> *	golden snail
<i>Rhizoctonia solani</i> *	rice sheath blight
<i>Rice Grassy Stunt Virus</i> *	
<i>Rice Hoja Blanca Virus</i> *	
<i>Rice Ragged Stunt Virus (RRSV)</i> *	
<i>Rice Tungro Viruses (spherical and bacilliform)</i> *	
<i>Rice Yellow Mottle Virus</i> *	
<i>Scirpophaga incertulas</i> *	yellow stem borer
<i>Ustilagoideia virens</i> *	false smut
<i>Xanthomonas oryzae pv. Oryzae</i> *	Bacterial leaf blight
<i>Chilo suppressalis</i>	rice stemborer
<i>Echinochloa crusgalli</i>	barnyardgrass
<i>Leptocorisa oratorius</i>	rice bug
<i>Nephotettix spp.</i>	green/rice leafhopper
<i>Orseolia oryzae</i>	rice gall midge
<i>Sitophilus oryzae</i>	rice weevil

Other Pests

Scientific Name	Common Name/Causes
<i>Mycosphaerella fijiensis</i> *	black sigatoka

*First-round pests. Other pests are tentative. First-round maize pests have not been selected.