



DISEASE DIAGNOSIS SMUT & LEAF DISEASES





PHOTOS: MORGAN COTT, MANITOBA CROP ALLIANCE

COMMON SMUT

Conspicuous swellings or galls on cob tissues or kernels Interior of galls darkens and ruptures, releasing masses of powdery dark brown to black spores

Leaf galls appear more blisterlike and do not rupture



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HEAD SMUT

Not visible until tassel and ears develop Cobs usually replaced by mass of black spores enclosed completely by husks

When tassel is infected, ear will also be infected. but not necessarily vice versa

COMMON RUST

Golden brown blisters on leaves

As disease progresses, blisters split open and release characteristic powdery, rust-coloured spores

Does not normally develop until late in the growing season and is relatively minor





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PHOTOS: VIKRAM BISHT, MANITOBA AGRICULTURE AND RESOURCE DEVELOPMENT



CRAZY TOP/ DOWNY MILDEW

Infected plants are stunted, crooked and produce abundant tillers Tassel often replaced with mass of twisted leaf tillers



PHOTO: ALISON ROBERTSON, IOWA STATE UNIVERSITY

ANTHRACNOSE LEAF BLIGHT

Large, oval spots (up to 15 mm in diameter) with tan centres and reddish-brown or yellowish margins

Infection occurs on lower leaves first, spreading to upper leaves under wet conditions Infected leaves wither and die

Infected leaves wither and prematurely



Lesions develop long, greyish wavy pattern following the leaf veins

Within lesions, irregular, watersoaked dark green to black "freckles" develop – a distinct symptom of Goss's wilt

Sticky exudate develops within the lesions after a rain event or in high humidity and appears shiny after drying

Systemic infection, which occurs earlier in development, results in discoloured xylem tissue and wet, slimy bacterial exudate within the stalk tissues

Following systemic infection, plants may be stunted, become wilted and





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