## **Fungal Disease Fact Sheet**

Disease Name:	Fusarium Ear Rot
Grain Affected:	Corn
Mycotoxin:	Fumonism
Pathogen:	Fusarium moniliforme
Synptom:	Salmon-pink to reddish-brown <u>spore</u> mass starting at the ear tip or on groups of kernels scattered thoughout the ear, progressing to a powdery or cottony-pink mold. Has also been found in seemingly healthy corn.
Conditions:	Infection tends to follow injury by insects or birds. Disease development favors dry, warm weather. High kernel moisture at time of harvest. Affects as much as 90% of midwest corn crops.
Inoculumn Dispersal:	Soil and airborne, insects, birds, corn borers and earworms. Con- taminated storage facilties and equipment.
Inoculumn Survival:	Overwinters on/near soil surface in host plant debris. Contaminated storage facilties and equipment.
Effect on Crop:	Decreased feed and market value. Reduced yield, test weights, and baking qualities.
Management:	Crop rotation, deep soil tillage, resistant <u>hybrids</u> , reduce nitrogen levels in fields, and use of clean equipment and storage facilities.
FDA Action Level:	None; Advisory levels are 5ppm for horses, 10ppm for swine, and 50ppm for cattle.
Livestock Affected:	Horses, donkeys, mules, swine and cattle.
Livestock Symptoms:	Equine leukoencelhalomalacia (blind staggers). Loss of appetite.
Human Symptoms:	On going research indicates potential for adverse health problems (cancer).



Photo 16. Corn infected by *Fusarium sp*. (G. Munkvold)



Photo 17. Fusarium ear rot (APS)