

KHAN, MOHAMED F.R.* and RANDY NELSON, North Dakota State University & University of Minnesota, Plant Pathology Department, Fargo, ND 58105-5758. **Some like it straight, some like it mixed!**

ABSTRACT

Cercospora leaf spot, caused by *Cercospora beticola*, is the most economically damaging foliar disease of sugarbeet in Minnesota and North Dakota. Timely application of fungicides results in effective disease control. The fungicides most widely used for *Cercospora* leaf spot control are Eminent (triazole), Headline (strobilurin), and triphenyltin hydroxide (TPTH). Tolerance of *C. beticola* to TPTH has already been documented, and pathogens can develop resistance to the strobilurin and triazole class of chemistries. Research was conducted at Foxhome, MN, to evaluate different strategies for controlling *Cercospora* leaf spot and to manage fungicide resistance. Strategies involving alternations and mixtures of full and reduced rates will be discussed.