

## QUEST

Synonyms - \_\_\_\_\_

Experimental #  M122

### HISTORY

M122 is an F5 derived selection from the cross FEG18-20 / M110. FEG18-20 was a line selected for its FHB (Fusarium Head Blight) tolerance over several years of disease screening from the cross MNBrite / SI4-29. SI4-29 was also a line selected for its FHB tolerance from the cross Zhedar#1 / Stander // Foster, which was given to us by Rich Horsley as F2 seed in 1994. M122 was advanced by single seed descent from the F1 thru F4 generations. It was selected from an FHB tolerant population (FEG65) in 2002 as an F4.5 line, then a single F5 plant was taken and increased in New Zealand for preliminary yield testing in 2003. M122 (FEG65-02) was planted in an intermediate yield trial in 2004 and in advanced trials and Mississippi Valley Nursery in 2005. During the same time, M122 was evaluated for FHB resistance and DON level. Malting quality evaluations for M122 began in 2003.

### AREA OF PRODUCTION

Quest is intended for growing in Minnesota, South Dakota and North Dakota, but may also be adapted to neighboring regions in Canada.

### AGRONOMIC CHARACTERISTICS

**Yield** – High, similar to Lacey and Tradition.

**Maturity** – Medium.

**Straw Strength** – Medium.

**Straw Length** – Medium-short, similar to Tradition and 2” shorter than Robust.

**Disease Reaction** – Quest has improved resistance to *Fusarium* Head Blight (Scab) and accumulates approximately half of the DON compared to Robust. ...

### UTILIZATION

Used for malting and brewing.



## **DESCRIPTION**

**Plant** - Spring growth habit.

**Head** - 6-row.

**Beard** – Semi-smooth.

**Glume** – Glumes are slightly longer than one-half the length of the kernel and covered with long hairs.

## **KERNEL**

**Hull** – Adhering and wrinkled.

**Aleurone** - Colorless.

**Rachilla Hairs** - Long.

**Veins** – Moderately prominent.

**Barbs of Lateral Veins** – Numerous.

**Crease** – V-shaped.

**Point of Attachment** – Transverse crease.

**Kernel Size** – Medium large.

**Kernel Shape** – Wide at center.