



G-TWYST
GM PLANTS TWO YEAR SAFETY TESTING

Production of Plant Material



Cultivation of GM maize NK603 and MON810



USA



Canada

NK603 with Roundup
NK603 without Roundup
NK603 near-isogenic conventional counterpart

Cultivation of GM maize NK603 and MON810



- Spain:**
- **MON810**
 - **MON810 near-isogenic conventional counterpart**
 - **SY NEPAL as conventional variety**

Cultivation of NK603 in the USA

- **Hybrid:** Prairie Brand 882RR2
- **Seeding Rate:** 32,000 seeds/acre
- **Planting Date:** May 23, 2014
- **Fertility:**
 - Five gallons per acre of 10-34-0 fertilizer were applied at planting with another 150 lbs of N and 50 lbs of K at about 4-leaf stage
- **Herbicides:**
 - Glyphosat was applied to one of the RR2 plots on June 14

Cultivation of NK603 in the USA



RR2 corn looking South, conventional maize below the horizon



Looking to North East RR2 corn on left, conventional on right



Non-GM corn on left, GM corn down field

Cultivation of NK603 in the USA

- **Harvest:** 4th of November 2014
 - **Transport to the storing place:**
 - 2,5 t of NK603 with glyphosat
 - 2,5 t of NK603 without glyphosat
 - 4 t of the near isogenic counterpart
- Calender week 50 (09.12.2014)

Cultivation of NK603 in Canada

- **Hybrid:** Pioneer 8906
- **Planting Rate:** 84,721 plants/ha
- **Planting dates:**
 - » May 13, 2014 for non-GM seed
 - » May 14, 2014 for 8906R seed

Cultivation of NK603 in Canada

- **Fertility:**
 - Broadcast pre-plant incorporated 220 kg/ha of 20-0-30 + 2.4% Sulphur (granular)
 - In-furrow at planting 47 L/ha of 7-27-3 + 5% Zinc liquid starter fertilizer
 - Injected 116 kg/ha actual Nitrogen as 28% liquid nitrogen fertilizer on June 19

Cultivation of NK603 in Canada

- **Herbicides**

- May 20 Primextra II Magnum 3,5 L/ha – all blocks
(S-Metolachlor + Atrazine)
- June 20 Roundup Transorb HC (540 g/L) 2,5 L/ha
W side only = 1.35 kg/ha Glyphosat (Potassium Salt)

Cultivation of NK603 in Canada (July 2014)



NK603 without Glyphosat



NK603 with Glyphosat



Near-isogenic counterpart

Cultivation of NK603 in Canada (October 2014)



NK603 without Glyphosat



NK603 with Glyphosat



Near-isogenic counterpart

Cultivation of NK603 in Canada

- **Harvest:** calendar week 48
- **Transport to the storing place:**
 - 4 t of NK603 with glyphosat
 - 4 t of NK603 without glyphosat
 - 7,8 t of the near isogenic counterpart
 - expected Calendar week 50/51

Cultivation of MON810 in Spain

- Part from Maria Plá

Thank you for your attention!