Intermediate wheatgrass (IWG) provides the soil ecological benefits of a perennial while yielding grain for milling like an annual crop



MARKET

Specialty grain with environmental attributes **KERNZA®**

ANNUAL

WHEAT

Kernza® grain has been used to make flour, popped grain, cereal, crackers and even beer!

GROUND LEVEL

KERNZA[®] FAST FACTS

ROOT LENGTH

~1,000 kg/ha

5-6 YRS STAND DURATION

9-21% **PROTEIN CONTENT**

UP TO...

OMEGA-3 FATTY ACIDS

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Compared with annual wheats

Doug Cattani leads the ONLY IWG (Thinopyrum intermedium, Kernza[®]) breeding program for grain production in Canada

ΔΝ

Part of the global perennial grain initiative initiated by the Kansas-based The Land Institute

PERENNIAL GRAINS

Soon to be in our fields and on our plates - a first in Canada.

TIMELINE TO COMMERCIAL CULTIVAR

2011

2019

IWG breeding program launched at UM selecting Prairie-hardy germplasm for consistent high yield, high quality grain protein

3 Manitoba producers seed small acreages of advanced IWG for grain, agronomics

2020

First breeder plots with most advanced line

Anticipated release of first Canadian IWG commercial cultivar

2027



🛄 RESEARCH LEAD: Doug Cattani, plant scientist, University of Manitoba DIG DEEPER! UM News "Innovative crop researcher captures sustainability award"



MANITOBA Agriculture & Food **KŇOWLEDGE** EXCHANGE

