



POUND-MAKER





Pound-Maker History

- Started in 1970 with 50 local area farmers as shareholders looking for alternative markets for their commodities
- Original capacity of 2,500 head of cattle
- Late 80's, feasibility study on ethanol plant and feedlot expansion
- In 1991, 10,000 head feedlot expansion and construction of the ethanol plant occurred
- Over 250 shareholders
 - 70% within 30 miles of Pound-Maker



History

- Feedlot expansion in 1994 for additional 5,000 head
- Again in 1998 for additional 5,000 head
- Current one-time capacity of 28,500 head
- Produce 13 million litres per year of fuel ethanol







Ethanol Production

- Consumes Soft White Spring Wheat
 - 35,000 metric tonnes annually
 - Also use CPS Wheat, Triticale, Durum
- Produce 13 million litres ethanol annually





Co-Products

- The grain and liquid by-products from the distillation tower are further separated to produce two by-products
 - Wet Distillers Grains (WDG)
 - Thin Stillage

Thin Stillage

- Water that has gone through the plant process
- This water is rich in protein as it is concentrated by the ethanol production process and includes 7 – 8% grain solids
- Piped under ground to the cattle in the feedlot



Wet Distillers Grains

- 61 to 65% of the wheat kernel is starch which is used in the production of ethanol
- The remaining 1/3 of the wheat kernel is protein, which is the WDG
- Very Moist
- High in protein as it is a concentrated source



FOBI network

- Feed Opportunities from the BioFuels Industries.
 - Collaborative research network led by the University of Saskatchewan Feeds Innovation Institute.
 - Opportunities for wheat-based ethanol industry

Saskatchewan Wheat Production

- About 40% of cropland seeded to various types of Wheat
- Hard Red Spring, Durum, Winter Wheat, Canada Prairie Spring and Soft White Wheat



Starch Content of Wheat

- Most wheat in Western Canada is bred for high protein
- High protein wheat will have lower levels of starch
- Starch content can range from 61% to 65% depending on quality and variety of wheat
- Pound-Maker's historic yield, 365 litres per tonne (undenatured)















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www.pound-maker.ca