

# Global Population Growth and the Demand for Grains

# TEUCRIUM

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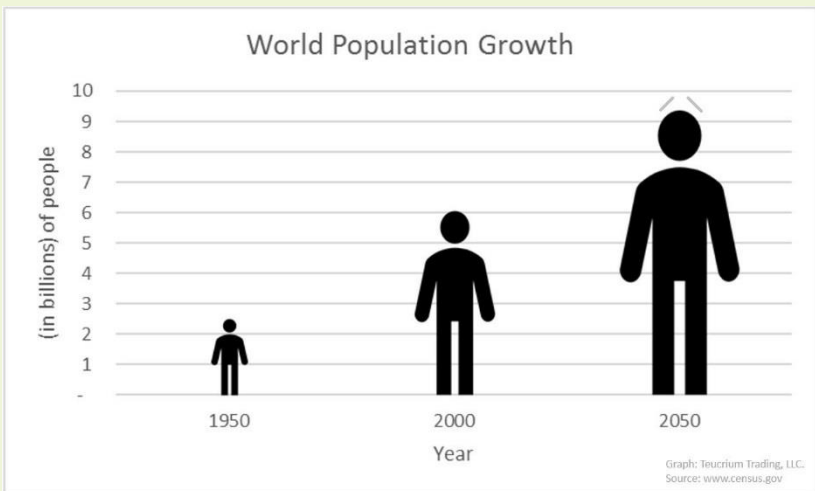
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- The global population **increases by about 2.47 persons every second, 148 people per minute and, based on this estimate, about 78 million people per year**<sup>1</sup>
- Based upon the USDA estimates for 2017-2018, current annual demand per person is approximately 5.6 bushels of corn, 3.7 bushels of wheat and 1.7 bushels of soybeans and for every person on earth<sup>2</sup>
- At current yield per acre and demand levels, this results in the need for about **26 total acres every minute in additional arable land** for these three grains alone - 9 acres for corn production, 11 for wheat and 6 for soybeans<sup>3</sup>
- **Approximately 13.8 million additional acres would need to be cultivated** (a little more than 1/8<sup>th</sup> the size of California) just to produce the bushels of corn, wheat and soybeans needed to supply the global population growth estimated for a full year<sup>3</sup>

## Risks and Disclosure

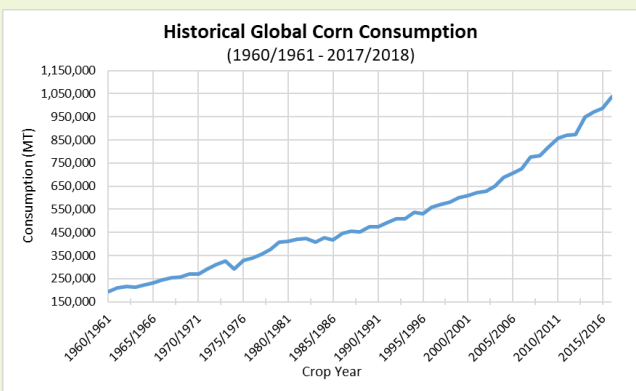
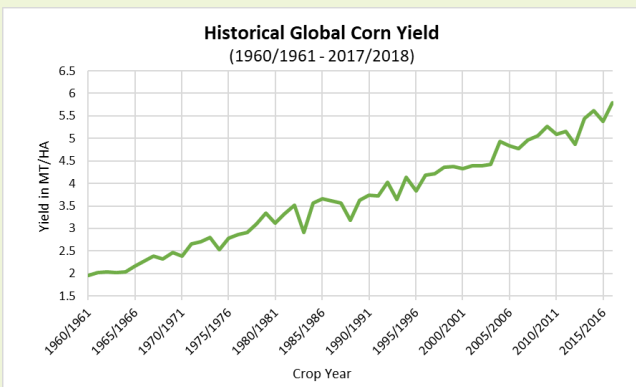
- *Commodities and futures generally are volatile, and instruments whose underlying investments include commodities and futures are not suitable for all investors.*
  - **This material must be preceded or accompanied by a prospectus. Please read the prospectus carefully before investing or sending money. To obtain a current prospectus visit the links below:**
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- *Teucrium Trading, LLC has limited experience operating commodity pools. There is currently limited performance history included in the Funds' prospectuses to serve as a basis for you to evaluate investing in the Funds.*
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A bushel of corn weighs about 56 pounds and an acre is about 44,000 square feet, which is approximately the size of a football field, goal line to goal line

See additional disclosure on back page

## Steady Rise in Demand Fed by Inconsistent Rise in Yields



- Supply is a function of yield per acre and arable land under cultivation.

- Although historical yield per acre for many crops including corn (as shown to the left) has generally improved over time, the yield change is not consistent year over year, and does decline from time to time.

- Future gains in global grains production may not be as fast as in the preceding five years and may be outpaced by growth in demand. Increases in consumption will continue to come mostly from food (mainly wheat) and feed (mainly maize).<sup>4</sup>

- Shares of the Funds are not insured by the Federal Deposit Insurance Corporation ("FDIC"), may lose value and have no bank guarantee.
- Unlike mutual funds, the Funds generally will not distribute dividends to its shareholders. Investors may choose to use the Funds as a means of investing indirectly in commodities, and there are risks involved in such investments.
- Prior to the launch of the Teucrium Corn Fund, Teucrium Trading, LLC had never operated a commodity pool. Investors may choose to use the Funds as vehicles to hedge against the risk of loss, and there are risks involved in such hedging activities.
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Graphs Source: <http://apps.fas.usda.gov><sup>5</sup>

**The Teucrium Funds** provide investors unleveraged direct exposure to commodities without the need for a futures account. Teucrium is an issuer of single-commodity-focused next generation Exchange Traded Products ("ETP"). Teucrium designs investment vehicles that offer liquidity, transparency and capacity in single-commodity investing (Agricultural and Energy Funds) to a wide range of investors in the popular and highly liquid ETP format. The Teucrium team has the ability to deliver ETPs in an equity format for investing without the use of leverage. The Teucrium family of commodity funds are all traded on the NYSE Arca.

**The Teucrium Funds** are commodity pools that issue Shares that may be purchased and sold on the NYSE Arca. The Funds are series of the Teucrium Commodity Trust ("Trust"), a Delaware statutory trust. Additional series of the Trust that will be separate commodity pools may be created in the future. The Trust and the Fund operate pursuant to the Trust's Second Amended and restated Declaration of Trust and Trust Agreement (the "Trust Agreement"). The Funds were formed and are managed and controlled by the Sponsor, Teucrium Trading, LLC. The Sponsor is a limited liability company formed in Delaware that is registered as a commodity pool operator ("CPO")

and commodity trade advisor ("CTA") with the Commodities Futures Trading Commission ("CFTC") and is a member of the NFA.

### Sources:

<sup>1</sup><https://www.census.gov/popclock/>

<sup>2</sup>World Agriculture Supply and Demand Report - As reported per the USDA on the Oct 12, 2017

<sup>3</sup>Teucrium Trading, LLC

<sup>4</sup><https://www.igc.int/en/markets/marketinfo-forecasts.aspx>

<sup>5</sup><http://www.fas.usda.gov/psdonline/psdQuery.aspx>