

Canadian Farmer Perspective

Virtual seminar March 1, 2022
Steve Twynstra, Twilight Acre Farms



DELIVERING EXCELLENCE
TODAY AND TOMORROW



About me

- Ontario grain farmer for 30+ years
- 1,200+ hectare grain farm in Ontario
- Growing a range of crops
- Director with Grain Farmers of Ontario



SOY
CANADA

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TODAY AND TOMORROW



Soybean Farming in Canada

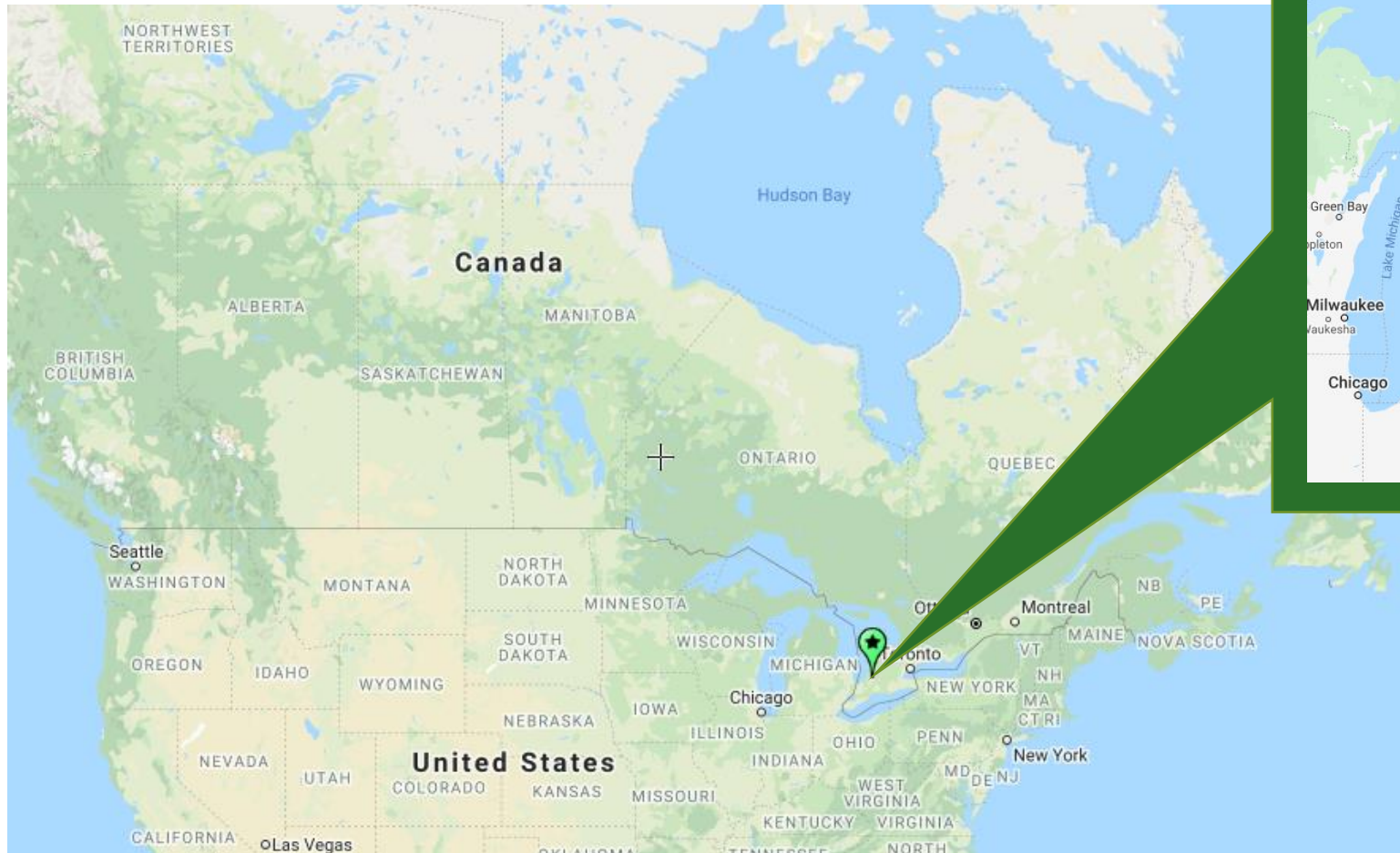


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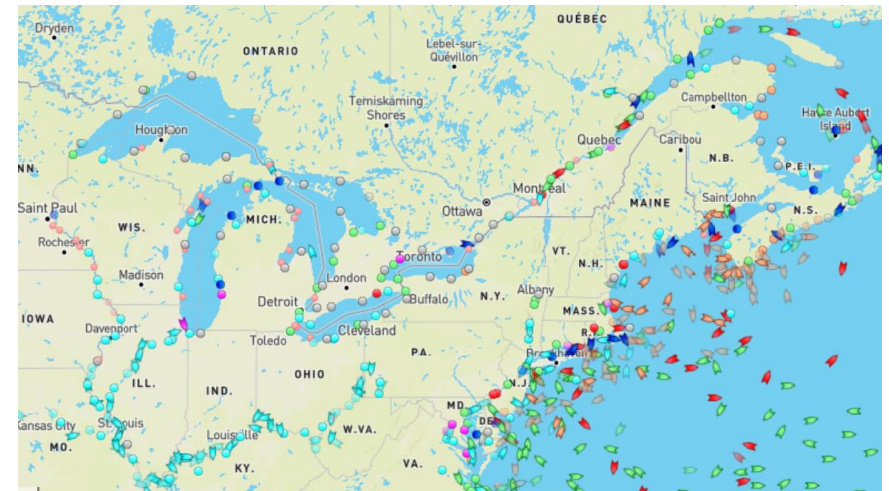
My farm



Our Infrastructure

A robust network for export

- Efficient and reliable grain handling system with high-throughput elevators and inland terminals linked to ports by rail and road systems
- Elevators which can segregate specific varieties and specialty traits for buyers



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Growing our Soybeans

Growing for Quality

- I grow identity preserved non-GMO tofu and natto beans, planning to produce 1,400 metric tonnes of natto and tofu beans combined in 2022
- Canada's progressive breeding programs and Identity Preserved System are integral to our production



Growing our Soybeans

Our approach to agronomy

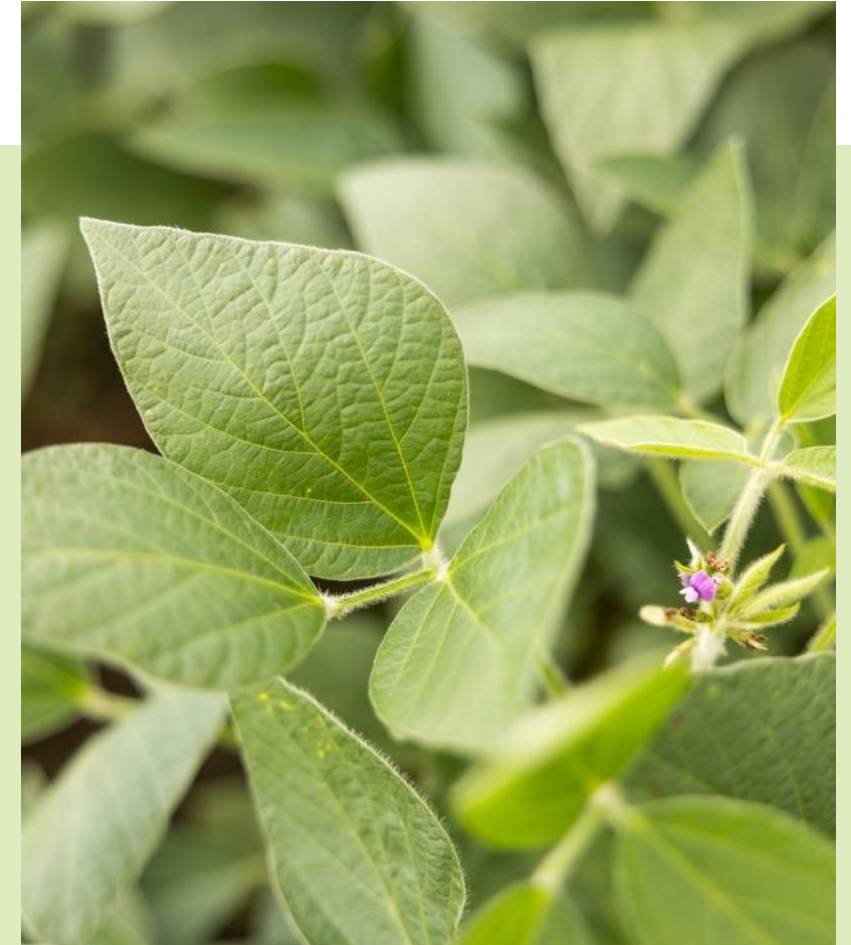
- Focus on end user needs and continuous improvement with technology and innovation
- Leverage academic and research partners
- Using a Certified Crop Advisor Agronomist



Our Farming Practices

How we deliver on quality

Canadian producers have proudly produced soybeans for more than 70 years. We are highly skilled and progressive individuals investing in innovative equipment and technology to continually grow a better crop. We are also supported by an extensive network of resources who advise us on optimal practices for planting, crop nutrition, pest management and harvesting.



Our Farming Practices

How We Deliver on Quality

Crop Rotation

- We grow a annual rotation of crops including edible beans, winter wheat and corn
- This helps to reduce soil erosion, disrupts pest cycles, increase soil fertility and increase nutrients available for crops



Our Farming Practices

How We Deliver on Quality

Soil Management

- We've adopted wider equipment that is more efficient and helps reduce soil compaction
- We have tested our soil consistently since the 1980s and have successfully maintained and built our soil organic matter



Our Farming Practices

How We Deliver on Quality

Variable Rate Technologies

- Allows me to be precise and efficient by applying fertilizer based on plant needs while taking into account the variability within a field



Our Farming Practices

How We Deliver on Quality

4R Nutrient Stewardship

- We follow the 4Rs – applying nutrients at the Right Place, Right Time, Right Source and Right Rate
- 4R Nutrient Stewardship optimizes crop uptake of nutrients and minimize nutrient losses into our waterways and air



Our Farming Practices

How We Deliver on Quality

Controlled drainage

- Our fields are naturally rainfed and do not require irrigation.
- We've installed drainage which helps us to store rainwater, making it available when needed or removed when not needed.
- This also reduces outflows of nitrogen and phosphorus.



Our Farming Practices

How We Deliver on Quality

Tree management

- Ontario's tree planting programs have planted 29 million new trees since 2008, sequestering 21,000 tonnes of CO2 annually
- Farmers like myself value trees for ecosystem services such as reducing wind erosion on farm and helping regulate water supply.



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Conclusion

Thank you

