# **Oats Market Update**

By Brennan Turner SaskOats AGM January 12, 2022

# Hey I'm Brennan!

# **@BrennanDTurner on Twitter**

- Family farms ~80,000 acres in SK/ND
- Notre Dame Hound (2005)
- Yale University (2009 Bachelors in Economics)
- Pro hockey player (2011 Calder Cup!)
- Wall Street commodity analyst/trader
- Founded Combyne Ag
  - Formerly called FarmLead
  - Now really a crop marketing hub
  - Transitioned out this past summer
- Passionate about leaning into in the challenging intersection of agriculture, technology, and sustainability



Our Vision

# Optimize the value of every bushel





A farmer-centric platform that combines technology and data to optimize value and manage risk in a simple, affordable and (semi) automated way.

# Inventory Overview



#### **See Marketed Position**

Farmers get a full view of their inventory and can see what proportion of their crop is available, contracted, or delivered.

#### **Smart Price Targets**

Farmers can see their average realized price on crop volume contracted to-date, and get a recommended target price for their uncontracted volume.

#### Sync Inventory

Farmers can sync their inventory from their preferred tool, including their FMS or Bin Monitoring System.

# Contract Management



#### See contracted position

Farmers get holistic view of their contracted position; upcoming contracts, open contracts, and fully closed contracts.

#### **Digital contract capture with OCR**

If the deal wasn't done on Combyne, farmers can upload a PDF, take a photo, or forward a contract via email to us. Our OCR tool converts the contract into a digital form so that <u>all</u> the farmer's contracts are in one place, are searchable, and are easy to keep track of.

#### **Notifications**

Farmers get notified of upcoming delivery dates so they know what contracts are coming up.

#### Match settlements & load tickets to contracts

Through Combyne Connect integrations with buyer's back-office tools, farmers can view settlements & load tickets matched to existing contracts.

# Offer Management



#### **View all offers**

Farmers see a full picture of what offers they've created and sent to their buyers, bids sent to them from their buyers, and contracted deals.

#### **Create an offer**

Farmers can easily tell their buyers what they have to sell and the deal terms they're looking for.

# Share with multiple buyers & set custom terms

Combyne also enables farmers to send offers to multiple of their buyers at once, setting custom price & freight terms per each buyer; once one buyer accepts, the grain becomes no longer available to the other buyers, eliminating the risk of a farmer ever double-booking their grain.

#### Negotiate deal terms & finalize

Farmers can easily negotiate and finalize deals terms with their buyers via chat in-app. Once agreed to, both farmer and buyer can review the final terms and mark the deal as contracted

# Tell buyers you're SWAT CERTIFIED.

Get recognized for your environmental stewardship when marketing your crops.







### Also ingesting bids from Farmbucks

#### @BrennanDTurner



# See the top bids for the crops you sell,

←	CPS Wheat	• • • •
5.	000 bu	1
Market In	sights	
Current Top Bid		Farmbucks
Grade #1 - 1	• Cereal, AB	
\$7.63/bu		(j)
10 Page 10 Pag	e based on the top l	ocal prices
for your remain \$457,800	ning CPS Wheat.	



# to better understand how today's market can impact your bottom line.

# AMUAT THE RIGHT PLACE?

# The best performing commodity in 2021!

Prepared by Brennan Turner for SaskOats AGM	Futures Contract	2021 Close	2020 Close	\$ Change YoY	% Change YoY
	Corn (USD \$/bu)	\$5.933	\$4.840	\$1.09	22.6%
Grain	Soybeans (USD \$/bu)	\$13.393	\$13.110	\$0.28	2.2%
<b>Futuro</b>	Soymeal (USD \$/ton)	\$399.10	\$429.40	-\$30.30	-7.1%
Futures	Soy Oil (USD \$/pound)	\$0.565	\$0.424	\$0.141	33.3%
Front-	Canola (CAD/MT)	\$1,012.60	\$637.00	\$375.60	59.0%
Manth	Oats (USD \$/bu)	\$6.830	\$3.610	\$3.22	89.2%
Month	SRW Wheat (USD \$/bu)	\$7.708	\$6.405	\$1.30	20.3%
Contracts	HRW Wheat (USD \$/bu)	\$8.015	\$6.035	\$1.98	32.8%
	HRS Wheat (USD \$/bu)	\$9.820	\$5.993	\$3.83	63.9%

### Past year's performance



### **Oats futures over the past 6 years**



### **Oats futures over the last 25 years**



# Did anyone grow more oats than last year?

Prepared by Brennan Turner for SaskOats AGM	Oats	Produ	uctior	ı - Top	<b>10</b>	Players	
1,000 MT	2020/21	2021/22	# Change YoY	% Change YoY	5-Year Avg	Change from 5-Yr Avg	
World	25,505	23,027	-2,478	- <b>9.7</b> %	23,796	-3.2%	l
<b>European Union</b>	8,422	8,150	-272	-3.2%	7,348	11%	
Russia	4,127	4,100	-27	-0.7%	4,692	-13%	1
Canada	4,576	2,606	-1,970	-43%	3,841	-32%	1
Australia	1,675	1,550	-125	-7.5%	1,489	4.1%	1
United Kingdom	1,031	1,100	69	6.7%	930	18%	1
Brazil	846	927	81	9.6%	796	16%	
Argentina	510	690	180	35%	592	17%	1
Chile	525	600	75	14%	534	12%	1
China	600	600	0	0%	562	6.8%	1
<b>United States</b>	954	578	-376	-39%	840	-31%	
Ukraine	515	465	-50	-9.7%	471	-1.3%	
Source: USDA							

 Futures mostly reacting to North American harvest (duh, Brennan)

#### Honorable mentions:

- Belarus: 350K, -21%, -13%
- Norway: 300K, nil, +8%
- Turkey: 250K, nil, +4%, +6%
- Kazakhstan: 200K, -17%, -32%
- Algeria: 110K, nil, nil
- Mexico: 90K, +43%, +10%
- South Arica: 80K, +40%, +115%

# Less production = exports musical chairs

 With less crop available from Canada, other players are having to step up

- Notable #1: Australia! Despite a smaller crop, they're exporting more!
- Notable #2: The U.K. But somewhat expected with their departure from EU

Prepared by Brennan Turner for SaskOats AGM	0	Oats Exports - Top 10 Players									
1,000 MT	2020/21	2021/22	# Change YoY	% Change YoY	5-Year Avg	Change from 5-Yr Avg					
World	2,768	2,383	-385	-14%	2,534	-6.0%					
Canada	2,023	1,300	-723	-36%	1,767	-26%					
Australia	396	600	204	<b>52</b> %	385	56%					
<b>European Union</b>	139	200	61	44%	171	17%					
United Kingdom	43	115	72	167%	50	129%					
Russia	86	100	14	16%	67	49%					
United States	46	29	-17	-37%	37	-22%					
Ukraine	19	15	-4	-21%	15	0.0%					
Kazakhstan	6	10	4	67%	13	-23%					
Brazil	1	5	4	400%	3	56%					
Chile	3	5	2	67%	21	-77%					
Source: USDA											



# **Bullish winds of domestic demand?**

Prepared by Brennan Turner for SaskOats AGM	Oats	Consu	Imptic	on - To	p 10	Markets
1,000 MT	2020/21	2021/22	# Change YoY	% Change YoY	5-Year Avg	Change from 5-Year Avg
World	24,644	23,560	- <b>1,084</b>	-4.4%	23,792	-1.0%
<b>European Union</b>	8,225	8,050	-175	-2.1%	7,265	11%
Russia	4,050	4,000	-50	-1.2%	4,630	-14%
<b>United States</b>	2,363	2,023	-340	-14%	2,386	-15%
Canada	2,339	1,700	-639	-27%	2,151	-21%
Australia	1,100	1,000	-100	-9.1%	1,074	-6.9%
United Kingdom	973	1,000	27	2.8%	903	11%
Brazil	845	915	70	8.3%	783	17%
China	900	900	0	0%	844	6.6%
Argentina	525	685	160	30%	592	16%
Chile	625	650	25	4.0%	552	18%
Source: USDA						

 Domestic demand for oats is increasing in emerging markets:

- Latin America
  - Mexico: 240K, +2%, +10%
  - Peru: 75K, -1%, +25%
  - Uruguay: 40K, +29%, nil
- Other Notables
  - Turkey: 240K, nil, +1%
  - Algeria: 120K, nil, +1.5%
  - S. Africa: 95K, +38%, +41%
  - India: 50K, nil, +79%
  - Morocco: 50K, +11%, +76%

# Should we pursue more feed-purposed exports?

# Notable feed use vs production

- Brazil: almost all of harvest goes into feed
- Argentina: 75%
- Chile: 34%
- China: 67%
- Russia: 68%

Prepared by Brennan Turner for SaskOats AGM	Oat	ts Fee	d Use ·	- Top 🛛	10 Ma	arkets
1,000 MT	2020/21	2021/22	# Change YoY	% Change YoY	5-Year Avg	Change from 5-Year Avg
World	16,966	15,906	-1,060	-6.2%	16,499	-3.6%
European Union	6,800	6,600	-200	-2.9%	5,980	10%
Russia	2,600	2,500	-100	-3.8%	3,100	-19%
Brazil	820	890	70	8.5%	758	17%
United States	1,225	863	-362	-30%	1,249	-31%
Australia	900	800	-100	-11%	874	-8.5%
Canada	1,170	800	-370	- <b>32</b> %	1,135	-30%
Argentina	400	525	125	31%	450	17%
China	550	500	-50	- <b>9.1</b> %	524	-4.6%
United Kingdom	408	400	-8	-2.0%	339	18%
Ukraine	325	315	-10	-3.1%	305	3.3%
Source: USDA						

# Lots riding on North American Harvest 2022!

Proparad by Proppan Turn

#### Notable Smallest Stocks

- USA: 2013/14 (359K MT)
- Canada: RECORD LOW
- China: 2015/16 (104K MT)

#### Notable Largest Stocks:

- Chile: 2<sup>nd</sup> largest ever
- Brazil: largest ever
- Mexico: 2<sup>nd</sup> largest ever

Preparea by Brennan Turner for SaskOats AGM	Oa	ts Car	ryout	Oats Carryout - Top 10 Markets										
1,000 MT	2020/21	2021/22	# Change YoY	% Change YoY	5-Year Avg	Change from 5-Year Avg								
World	2,862	2,218	-644	-23%	2,726	-19%								
United States*^\$	552	405	-147	-27%	592	-32%								
European Union*^\$	439	389	-50	-11%	436	-11%								
Canada*^\$	657	273	-384	-58%	592	-54%								
Australia*^\$	293	243	-50	-17%	243	0%								
Russia*^\$	187	188	1	0.5%	151	24%								
United Kingdom*^\$	147	152	5	3.4%	123	23%								
China^	108	108	0	0.0%	153	-29%								
Chile*^\$	94	89	-5	-5.3%	60	49%								
Brazil*^	68	75	7	10%	53	42%								
Argentina^	60	63	3	5.0%	72	-12%								
Source: USDA	\$ = Top	Producer	* = Top	Exporter	^ = To	p Consumer								

## Record low Canadian oats carryout is a certainty

 Based on current demand levels, should end 2021/22 with 200K – 250K MT in remaining stocks

 Stocks-to-use ratio of 6.5% is also a record datapoint



#### **Canadian Oats Production Vs Exports**

Prepared by Brennan Turner for SaskOats AGM



### Significant YoY decline in acres didn't help

Brennan Turner for SaskOats AGM	Sta	StatsCan Plant 2021 Oats Acres										
Total Acres	2020	2021	5-Year Avg	% Change YoY	# Change YoY	# Change from 5-Yr Avg						
Saskatchewan	1,855,700	1,648,900	1,619,320	-11%	-206,800	2%						
Alberta	881,200	769,000	817,520	-13%	-112,200	-6%						
Manitoba	695,100	643,700	533,857	-7%	-51,400	21%						
Quebec	204,200	165,600	185,140	-19%	-38,600	-11%						
British Columbia	71,900	84,300	70,520	17%	12,400	20%						
Ontario	104,500	71,700	84,760	-31%	-32,800	-15%						
Maritimes	26,600	39,800	35,475	50%	13,200	12%						
Total Canada	3,839,100	3,422,900	3,346,572	-11%	-416,200	2%						

### Actually harvested more acres than usual! (~83%)

Brennan Turner for SaskOats AGM	Sta	StatsCan Harvest 2021 Oats Acres									
Total Acres	2020	2021	5-Year Average	# Change YoY	% Change YoY	Change from 5-Yr Avg					
Saskatchewan	1,630,000	1,337,000	1,377,760	-293,000	-18%	-3%					
Alberta	605,500	525,700	510,160	-79,800	-13%	3%					
Manitoba	649,900	555,000	488,100	-94,900	-15%	14%					
Quebec	196,500	159,800	176,860	-36,700	-19%	-10%					
British Columbia	49,200	73,400	43,760	24,200	49%	<b>68</b> %					
Ontario	92,700	58,900	70,400	-33,800	-36%	-16%					
Maritimes	24,300	37,100	32,800	12,800	53%	13%					
Total Canada	3,248,100	2,746,800	2,699,840	-501,300	-15.4%	1.7%					





# Clearly, moisture matters!



Especially if you have too much hot weather!

# **Obvious difference was in yields**

Brennan Turner for SaskOats AGM	StatsCan Dec 2021 Canada Oats Yield Estimates										
Bushels Per Acre	2020	Aug 2021 Est	Sept 2021 Est	Dec 2021 Est	5-Year Avg	% of 5-Yr Avg	% Change YoY	# Change from Aug Est	# Change from Sept Est		
Saskatchewan	91.4	67.3	58.2	54.0	92.6	-42%	-41%	-13.3	-4.2		
Manitoba	111.4	86.9	64.4	70.4	105.7	-33%	-37%	-16.5	6.0		
Alberta	85.9	63.2	50.9	58.7	91.1	-36%	-32%	-4.5	7.8		
Quebec	57.1	70.8	70.5	80.0	65.0	23%	40%	9.2	9.5		
Ontario	72.6	77.1	78.3	89.3	78.7	13%	23%	12.2	11.0		
Maritimes	67.7			78.9	68.5	15%	16%				
Total Canada	91.3	71.4	60.0	61.5	92.18	-33%	-33%	-9.9	1.5		

Considering Saskatchewan accounts for over half of all acres, a ~40% reduction in average Sask oat yields isn't great for total production!

### Saskatchewan oats move national needle most

Brennan Turner for SaskOats AGM	Stats(	Can Dec	ember	Harvest	2021 0	ats Pr	oductio	on Estir	nates
Metric Tonnes	2020	Aug 2021 Estimate	Sept 2021 Estimate	Dec 2021 Estimate	5-Year Avg	% of 5-Yr Avg	% Change YoY	# Change from Aug	# Change from Sept
Saskatchewan	2,296,400	1,471,400	1,271,500	1,114,229	1,968,640	-43%	-51%	-357,171	-157,271
Manitoba	1,117,000	773,900	573,700	602,724	801,880	-25%	-46%	-171,176	29,024
Alberta	802,000	470,900	379,200	475,538	714,140	-33%	-41%	4,638	96,338
Quebec	173,200	170,500	169,700	197,158	176,660	12%	14%	26,658	27,458
Ontario	103,700	72,000	73,200	81,053	85,060	-5%	-22%	9,053	7,853
Maritimes	25,900			48,696	35,587	37%	88%		
Total Canada	4,575,800	3,070,100	2,578,700	2,605,935	3,840,660	-32%	-43%	-464,165	27,235

#### Saskatchewan went from being responsible for 51% of total Canadian oats production, to just 42%!

### **Cash prices reflect short supply situation**



- Rally started mid-July when impact became more clear!
- Weekly moves to the upside of 2% - 12% consistently happened until December!

#### Is Minneapolis the benchmark?



# Or is it Manitoba?

#### @BrennanDTurner



Source: Manitoba Ministry of Agriculture

#### Alberta feed markets very competitive



Source: PDQInfo thru end of December 2021

#### Prepared by Brennan Turner for SaskOats AGM

#### Saskatchewan Cash Oats Prices



Source: Saskatchewan Ministry of Agriculture, elevators, & brokers

# Where are oats prices going in 2022?



# Has COVID helped the oats market?

### 1. Demand relatively stable

Commercial down but retail up

# 2. Healthy eating is becoming a larger factor than anything

- Goes in stride with the ESG push.
- Helps control blood sugar, cholesterol, etc.

# 3. Oat milk part of health / sustainability push from consumers

- Longer shelf life a very valid factor (no refrigeration needed until carton's open)
- In 1st year of COVID, it was #1 in increase in sales from pre-pandemic
- The go-to for vegans + lactose-intolerant

#### 1. Now the fastest-growing plant-based milk in America

- But almond milk still dominates from a market share standpoint
- Remember! 500 MT of oats = 500 litres of oat milk
- Unknown if new consumers are repeat or just replacing one another
- Emits one-third less than C02 in production than dairy milk
  - "Replacing a litre of dairy milk w/ a litre of oat milk is equivalent to not driving 5km on fossil fuels"
  - Oatly puts their carbon footprint on every carton now!

#### 2. Most established, consistent market is in Europe

• 30% of EU milk drinkers consume oat milk 2-3x / week (Source: Novozymes)

#### Novozymes' 2021 Consumer Insights Survey



1%-5% 6%-10% 11%-15% 16%-20% More than 20% No, I would not pay extra

70% of consumers said they would either NOT pay extra, or would only be willing to pay up to 5% more for oat milk than a traditional dairy product

#### **Oats are Great!**

rennanDTurner

*"Oats are one of the most underrated crops going from all sorts of angles: growing, bedding, feeding, eating."* 

— @RoryDeverell
EU futures & options broker

*"Low input requirement, grows on marginal land, stands up to difficult weather, slow release energy, drives milk from cows."* 

— @Friesian\_man aka Bruce Thompson
UK farmer & Nuffeld Scholar

#### **Decent snowfall so far but...**



#### How do past years compare?

With demand relatively constant, all about production! What does history tell us?

Crop Year	Planted Area (1,000 ac)	Harvest Area (1,000 ac)	Harvest %	Avg Yields (bu/ac)	Harvest Total (1,000 MT)	Stocks to Use %	Carryout (1,000 MT)	Avg Futures Price (USD/bu)
2000/01	4,511	3,225	72%	68.4	3,403	23%	854	\$1.77
2001/02	4,713	3,060	65%	57.0	2,691	11%	363	\$3.12
2002/03	5,797	3,407	59%	55.4	2,911	19%	524	\$2.99
2008/09 2009/10 2010/11 Source: AAFC	4,300 3,697 2,989	2,428 2,203 2,678	83% 66% 74%	77.4 77.8 72.1	4,273 2,912 2,451	41% 35% 25%	1,527 1,162 733	\$2.95 \$2.58 \$3.76

# Oats futures in 2000 - 2003



# Concluding Thoughts

#### 1. Lots riding on Harvest 2022!

• Likely will see higher acres (at the expense of malt barley and HRS wheat)

# 2. Prices will correct a bit to the downside over winter/spring

• Given record low carryout, volatility in the market likely to continue because of the production uncertainty

#### **3. Bull vs Bear Harvest Scenarios**

- If normal harvest, prices revert even lower
- If another below-average harvest, double digit oats prices could be the norm in 2022/23

Will Oat Milk feature in The Dude's White Russian in The Big Lebowski 3?



# brennan.d.turner@gmail.com

# @BrennanDTurner

# 306-715-4540