## **DURUM**

## AGRICULTURE SHIPMENT BRIEF

**SUMMER 2018** 

**U.S. Durum** production is around 30 million bushels annually. North Dakota accounts for more than half of that total followed by Montana, Arizona, California, and Idaho. Approximately 57% of land used in durum production in the United States is located in North Dakota.

Logistical data presented in this report reviews trends associated with the movement of durum from North Dakota elevators to markets. Figure 1 shows a continuing trend toward larger rail facilities in the durum market. Shuttle facilities share during the most recent 3-year time frame was 50% followed by multi (23%) and unit (22%) train facilities. Rail rates to Minneapolis have held steady for all train types from 2015 through 2017 (Figure 2).

Figure 1: Share of Business by Elevator Shipper Type

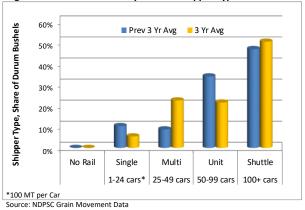
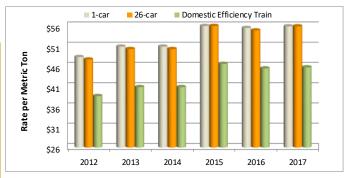


Figure 2: Rail Rates—Durum, North Dakota to Minneapolis



**Rail Market Shares** Burlington Northern Santa Fe (BNSF\*) and Canadian Pacific (CP\*\*) are the two major railroads providing service to North Dakota. Market share trends for these two rail roads, as well as trucks, are shown in Figure 4. BNSF continues to hold the largest share, more than 50% since 2009-10. CP holds a 24% share in the 2016-17 crop year. The share held by trucks is currently about 10%.

**Markets** Durum is used primarily for pasta products. In the United States, pasta consumption amounts to 20 lbs. per capita every year (North Dakota Wheat Commission). Export demand is based in Europe, North Africa, and Latin America, where durum is used in pasta, bread, and couscous.

Destination data (Figure 3) reveal that durum from North Dakota elevators moved in largest share to Duluth in 2016-17, followed by WI/Other MN. The Duluth shipments are destined for export customers in Europe and North Africa. WI/Other MN and Midland shipments typically move beyond the gateway to U.S. domestic millers. Overall destination percentages remain fairly consistent for all ports.

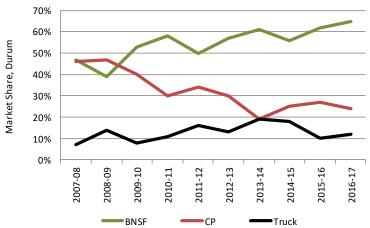
Crop reporting district (CRD) origin detail is provided on page 2, along with specifics on markets and export points.

Figure 3: Destination for Durum Originating from ND Elevators

ND PSC Grain Movement Summary, June-July Market Year												
1,000 Bushels												
	Duluth	WI/Other MN	Midland & Gulf	PNW	ND	Other	Total					
Previous												
5 Yr Avg	26%	27%	18%	1%	17%	10%	37,909					
2012-13	16%	29%	19%	1%	22%	13%	38,496					
2013-14	21%	25%	22%	5%	16%	11%	34,587					
2014-15	25%	22%	21%	2%	16%	15%	25,216					
2015-16	23%	22%	20%	5%	14%	16%	28,929					
2016-17	32%	26%	15%	1%	14%	13%	30,564					

WI/Other MN includes Minneapolis, southeastern Minnesota and Chicago gateway
Midland & Gulf includes states west of the Mississippi River not in any other column: MO, AR, LA, KS, OK, TX, MT, WY, CO, NM,
AZ, NV, CA
Other includes other states primarily east of Chicago, Canada, Mexico, and unknown

Figure 4: Market Share Over Time



## Destinations for Durum Shipments from ND CRD's

(1000 Bushels)\*\*

CRD 1 - Northwest							CRD 2 - North Central									
	Duluth	MN/WI	Midland	PNW	ND	Other	Total		Duluth	MN/WI	Midland	PNW	ND	Other	Total	
Previous 5 Yr Avg	32%	22%	20%	1%	17%	8%	26,041	Previous 5 Yr Avg	8%	27%	2%	0%	50%	13%	1,264	
2012-13	21%	23%	23%	1%	26%	6%	24,535	2012-13	1%	21%	0%	0%	57%	21%	1,127	
2013-14	26%	23%	24%	7%	16%	4%	24,577	2013-14	6%	39%	0%	0%	53%	2%	732	
2014-15	30%	14%	27%	2%	17%	9%	18,366	2015-16	0%	54%	1%	0%	30%	15%	341	
2015-16	28%	15%	25%	8%	13%	10%	17,665	2015-16	15%	16%	6%	0%	62%	1%	506	
2016-17	41%	22%	21%	0%	11%	5%	19,342	2016-17	21%	0%	3%	5%	51%	21%	1,649	
CRD 3 - Northeast							CRD 4 - West Central									
	Duluth	MN/WI	Midland	PNW	ND	Other	Total		Duluth	MN/WI	Midland	PNW	ND	Other	Total	
Previous 5 Yr Avg	6%	27%	14%	2%	18%	32%	619	Previous 5 Yr Avg	2%	36%	27%	0%	29%	5%	3,276	
2012-13	4%	35%	0%	0%	35%	25%	764	2012-13	2%	0%	28%	0%	20%	50%	2,576	
2013-14	41%	10%	6%	0%	31%	11%	378	2013-14	0%	10%	14%	0%	38%	39%	1,496	
2015-16	30%	18%	1%	0%	36%	16%	552	2015-16	3%	11%	9%	0%	10%	68%	1,109	
2015-16	16%	20%	4%	0%	40%	19%	950	2015-16	0%	7%	26%	0%	15%	52%	974	
2016-17	16%	16%	1%	2%	34%	32%	924	2016-17	0%	42%	6%	0%	9%	43%	1,360	
CRD 5 - Central							CRD 6 - East Central									
	Duluth	MN/WI	Midland	PNW	ND	Other	Total		Duluth	MN/WI	Midland	PNW	ND	Other	Total	
Previous 5 Yr Avg	15%	33%	10%	0%	15%	27%	900	Previous 5 Yr Avg	0%	34%	0%	0%	17%	8%	51	
2012-13	8%	7%	13%	0%	29%	43%	1,627	2012-13	0%	100%	0%	0%	0%	0%	2,254	
2013-14	5%	0%	7%	0%	24%	64%	535	2013-14	0%	0%	0%	0%	0%	0%	0	
2015-16	10%	2%	4%	0%	8%	75%	722	2015-16	0%	0%	0%	0%	0%	0%	0	
2015-16	1%	4%	1%	0%	28%	65%	1,070	2015-16	0%	100%	0%	0%	0%	0%	4	
2016-17	1%	10%	0%	0%	26%	63%	1,883	2016-17	0%	100%	0%	0%	0%	0%	64	
CRD 7 - Southwest							CRD 8 - South Central									
	Duluth	MN/WI	Midland	PNW	ND	Other	Total		Duluth	MN/WI	Midland	PNW	ND	Other	Total	
Previous 5 Yr Avg	21%	45%	12%	2%	3%	18%	5,610	Previous 5 Yr Avg	3%	68%	0%	0%	29%	0%	49	
2012-13	14%	42%	11%	2%	4%	27%	5,079	2012-13	0%	0%	0%	0%	100%	0%	29	
2013-14	9%	40%	18%	0%	3%	29%	6,794	2013-14	0%	0%	0%	0%	100%	0%	58	
2015-16	10%	65%	4%	0%	7%	13%	4,093	2015-16	0%	0%	0%	0%	100%	0%	34	
2015-16	18%	48%	9%	0%	8%	17%	5,695	2015-16	0%	0%	0%	0%	100%	0%	11	
2016-17	29%	46%	8%	2%	4%	11%	5,110	2016-17	0%	33%	0%	0%	67%	0%	53	
		CR	D 9 - South	east												
	Duluth	MN/WI	Midland	PNW	ND	Other	Total	**One metric ton =	36 74 Ruch	els						
Previous 5 Yr Avg	0%	55%	0%	0%	26%	0%	98									
2012-13	0%	97%	0%	0%	0%	3%	505	• .								
2013-14	0%	100%	0%	0%	0%	0%	17	Marketing Report and the North Dakota Grain And Oilseed Transportation								

Patterns and methods of shipping Durum per the Annual North Dakota Elevator Marketing Report and the North Dakota Grain And Oilseed Transportation Statistics report. The complete reports, CRD map, and additional market information are available at http://www.ugpti.org/resources/grain/.

## Ecuador Malaysia **DURUM EXPORT BY REGION AND PORT AREA** 1% Cameroon **RECENT 3-YEAR AVERAGE** 10% Guatemala 44% **Pacific** Japan 38% Panama Algeria Port Area Nigeria Gulf 50,000 Gulf Lakes Pacific Italy 21% Average Bushels in 1,000's Algeria

0

54

180

0%

90%

0%

NDSU Plant Sciences, Durum Wheat Production. Accessed online Oct. 18, 2017, at https://www.ag.ndsu.edu/plantsciences/research/durum/production

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Source: U.S. Department of Agriculture

2015-16

2015-16

2016-17

0%

0%

16%

0%

1000%

84%