### TRANSPORTATION AND HANDLING COSTS FOR SELECTED NORTH DAKOTA AGRICULTURAL COMMODITIES FOR THE FAR EAST

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### $\mathbf{BY}$

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The following transportation and handling costs were developed for the Governor's Trade Mission to China at the request of Kent Jones, Commissioner of Agriculture. The transportation rates were obtained from several sources including the traffic department of the Public Service Commission, traffic managers of selected companies and the rate quotation desks of railroads. Handling charges were based on personal communications with people in the grain and fobbing trade at both the Gulf and Pacific Northwest. Ocean rates were obtained from <u>Grain Transportation Situation</u>, Office of Transportation, USDA, and from industry traffic managers.

It should be noted that these rates and handling costs are subject to change and in some cases are estimates. Hopefully they will provide members of the trade mission with a basic idea of the costs of handling and transporting unprocessed and processed agricultural commodities.

The price FOB vessel Gulf versus Pacific Northwest will not necessarily determine the routing of commodities since there are many other factors which affect the logistical choice such as backhaul opportunities, port congestion, TCK smut, and others.

Origins were selected on the basis of production and/or traditional movement patterns.

To convert hundredweight costs to metric ton costs multiple by a factor at 22.05.

TABLE 1. SUMMARY OF TRANSPORTATION AND HANDLING COSTS FOR SELECTED NORTH DAKOTA AGRICULTURAL COMMODITIES DESTINED FOR THE FAR EAST

		PACIFIC N	ORTHWEST	GULF-MOBIL OR NEW ORLEANS			
COMMODITY/ORIGIN	POUNDS PER BUSHEL	F. O. B. VESSEL	F. O. B. FAR EAST	F. O. B. VESSEL	F. O. B.FAR EAST		
		(¢/CWT.)					
HARD RED SPRING AND DURUM	60				· —		
Williston		182	252				
Devils Lake		198	268	219	365		
Casselton		198	268	200	346		
BARLEY	48						
Valley City		248	318	290	436		
Minot		248	318	339	485		
SUNFLOWER	28						
Casselton		331	401	404	550		
OATS	32						
Jamestown		363	433	301	447		
FLAX	60						
Devils Lake		714	784	342	488		
CORN	56						
Wyndmere		152	222	196	342		
DRY EDIBLE BEANS	60						
Grafton		311	381	288	434		
SUNFLOWER AND LINSEED OIL							
Fargo		349		257	507		

TABLE 1. SUMMARY	OF TRANSPORTAT	TION AND HANDLING	COSTS FOR S	SELECTED NORTH	DAKOTA					
AGRICULTURAL COMMODITIES DESTINED FOR THE FAR EAST										
		DACITIC NODE	1000012C00	GITTE-MOBIL OR NEW ORLEANS						

		PACIFIC N	ORTHWEST	GULF-MOBIL OR NEW ORLEANS			
COMMODITY/ORIGIN	POUNDS PER BUSHEL	F. O. B. VESSEL	F. O. B. FAR EAST	F. O. B. VESSEL	F. O. B.FAR EAST		
		(¢/CWT.)					
Velva		349		359	609		
FLOUR AND SEMOLINA	-						
Grand Forks		512		342			
Cando		512	<del>-</del>	N.A.			
PASTA PRODUCTS							
Cando		718	-	451	<del></del>		

TABLE 2. TRANSPORTATION AND HANDLING COSTS FOR SELECTED NORTH DAKOTA COMMODITIES EXPORTED TO THE FAR EAST.										
	PACIFIC NORTHWEST				GULF-MOBILE OR NEW ORLEANS					
COMMODITY/ORIGIN	RAIL RATE	FOBBING CHARGE	TOTAL F.O.B. VESSEL	OCEAN RATE	TOTAL F.O.B. FAR EAST	RAIL RATE	FOBBING CHARGE	TOTAL F.O.B. VESSEL	OCEAN RATE	TOTAL F.O.B. FAR EAST
			(¢/CWT.)					(¢/CWT.)		
HARD RED SPRING A	HARD RED SPRING AND DURUM									
Williston	169ª	13 <sup>b</sup>	182	70°	252				÷-	<u></u>
Devils Lake	182ª	13 <sup>b</sup>	198	70°	268	206 <sup>p</sup>	13 <sup>b</sup>	219	146 <sup>d</sup>	365
Casselton	182ª	13 <sup>b</sup>	198	70°	268	187°	13 <sup>b</sup>	200	146 <sup>d</sup>	346
BARLEY										
Valley City	235 <sup>f</sup>	13 <sup>b</sup>	248	70°	318	277 <sup>g</sup>	13 <sup>b</sup>	290	146 <sup>d</sup>	435
Minot	235 <sup>f</sup>	13 <sup>b</sup>	248	70°	318	326 <sup>g</sup>	13 <sup>b</sup>	339	146 <sup>d</sup>	485
SUNFLOWER		·								
Casselton	311 <sup>h</sup>	20	331	70°	401	384 <sup>i</sup>	20	404	146 <sup>d</sup>	550
OATS										
Jamestown	350 <sup>j</sup>	13 <sup>b</sup>	363	70°	433	288k	13 <sup>b</sup>	301	146 <sup>d</sup>	447
FLAX	<u>-</u> -									
Devils Lake	701 <sup>1</sup>	13 <sup>b</sup>	714	70°	784	329 <sup>m</sup>	13 <sup>b</sup>	342	146 <sup>d</sup>	488
CORN										
Wyndmere	139 <sup>n</sup>	13 <sup>b</sup>	152	70°	222	183°	13 <sup>b</sup>	195	146 <sup>d</sup>	342
DRY EDIBLE BEANS										
Grafton	281 <sup>q</sup>	30°	311	70°	381	258 <sup>r</sup>	30°	288	146 <sup>d</sup>	434

- <sup>a</sup> Fifty-two car single origin rate effective July 22, 1982, lowest possible rate.
- <sup>b</sup> Based on a throughput charge of 8 cents per bushel; although throughput costs are currently five cents, one can anticipate an increase when demand picks up.
- <sup>c</sup> Based on ocean freight of \$14.00/ton from the PNW to Japan, 28,000 ton vessel.
- <sup>d</sup> Based on a range of \$27.50-\$30.00/ton for 27,000 ton vessel to a 30,000 ton vessel respectively.
- e Fifty-two car, BN direct to Mobile.
- f Fifty-two car BN direct.
- g Single car, BN direct to Mobile.
- h Fifty-two car rate, BN direct.
- i Single car rate to Minneapolis and Soo Line volume export rate to New Orleans.
- <sup>j</sup> Single car rate BN direct.
- <sup>k</sup> Single car rate, BN direct to Mobile.
- <sup>1</sup> Single car rate, BN direct.
- <sup>m</sup> Single car rate, BN direct to Mobile.
- <sup>n</sup> Fifty-four car rate, BN direct.
- ° Fifty-four car rate, BN direct to Mobile.
- <sup>p</sup> Fifty-two car rate, BN direct to Mobile.
- <sup>q</sup> Bulk single car rate to Mobile, BN direct, a rate of \$3.27/cwt. applies to beans bagged in box cars.
- Temporary rate applies through August, BN direct to Mobile. A rate of \$4,455 per car applies on bagged material.
- \* Fobbing costs for beans are a very rough estimate obtained by personal communication.

TABLE 3. TRANSPORTATION AND HANDLING COSTS FOR SELECTED NORTH DAKOTA PRODUCTS EXPORTED TO THE FAR EAST.										
	PACIFIC NORTHWEST					NEW ORLEANS - GULF				
PRODUCT/ORIGIN	RAIL RATE	FOBBING CHARGE	TOTAL F.O.B. VESSEL	OCEAN RATE	TOTAL F.O.B. FAR EAST	RAIL RATE	FOBBING CHARGE	TOTAL F.O.B. VESSEL	OCEAN RATE	TOTAL F.O.B. FAR EAST
	(¢/CWT.)					(¢/CWT.)				
SUNFLOWER AND L	INSEED C	)IL								
Fargo	284ª	65	349	275 <sup>j</sup>	624	192ªb	65	257	250 <sup>g</sup>	507
Velva	284ª	65	349	275 <sup>j</sup>	624	294ª	65	359	250 <sup>g</sup>	609
FLOUR AND SEMOLINA	····· TRUCK RATE ·····					TRUCK RATE				
Grand Forks	400°	112 <sup>f</sup>	512			230 <sup>d</sup>	112 <sup>f</sup>	342		
Cando	400°	112 <sup>f</sup>	512			N.A.°	N.A.	N.A.		
PASTA PRODUCTS										
Cando	606 <sup>h</sup>	112 <sup>f</sup>	718			339 <sup>i</sup>	112 <sup>f</sup>	451		

<sup>\*</sup> Rail rate applies to shipper owned or leased cars.

<sup>&</sup>lt;sup>b</sup> Weighted average of rail-barge combination via Minneapolis eight months and via Memphis four months.

<sup>&</sup>lt;sup>c</sup> Bagged or bulk, 40,000 lb. minimum; if a significant movement were possible, the existing rail rate of \$4.91/cwt. could be negotiated with the Burlington Northern to some reduced level.

<sup>&</sup>lt;sup>d</sup> New Orleans, export, bagged in box cars.

e Cando does not have rail siding, thus they would have to truck to some railhead and transship by rail to remain competitive.

f Based on a receiving and stevedoring cost of \$25/long ton at New Orleans.

g Based on a rate of \$50/ton for a 5,000 ton parcel, to Hong Kong.

h Boxed foodstuffs in boxcars 52', 75,000 lb. minimum.

i Boxed foodstuffs in boxcars 52', 100,000 lb. minimum.

<sup>&</sup>lt;sup>j</sup> Based on a rate of \$55/ton for a 5,000 ton lot.