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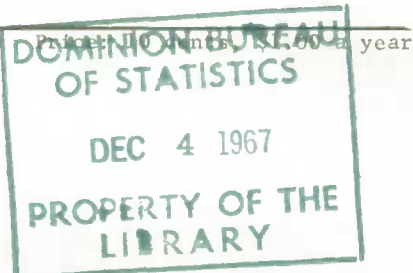
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SUMMARY OF CANAL STATISTICS

JULY 1967

An analysis of July canal data revealed several important changes and developments:

The total volume of freight through the St. Lawrence Canals in July declined slightly to 6,158,887 tons from 6,236,841 tons primarily because of less grain traffic. Despite a similar performance in grains through the Welland Canal, there was a gain of 4.0 per cent due to greater iron ore and coal shipments.

Downbound barley shipments through both the Welland and St. Lawrence Canals, at 318,288 tons and 302,224 tons respectively, tripled the corresponding 1966 tonnages; the cumulative figures for the year, at 950,782 tons and 883,914 tons (815,350 tons and 736,962 tons in 1966), show that this is the only grain shipped in greater quantity than the preceding year.

Iron and steel scrap destined for steel plants have been transported in appreciably greater volume through Canadian canals; for example, the St. Lawrence Canals have reported 248,467 tons cleared to the end of July compared to 50,075 tons in 1966.

Movements of fuel oil were lower this month for both the Welland and St. Lawrence Canals in contrast to most other fuels. This month, the St. Lawrence Canals, which handle the greater volume of the two networks, cleared 248,542 tons, approximately two-thirds of that recorded in July 1966; the cumulative total of 894,046 tons is some 16.1 per cent lower this year.

In July the St. Lawrence Seaway Authority and its American counterpart announced that the maximum permissible vessel draft for Seaway transit has been increased by three inches to twenty-five feet, nine inches. The new draft, a result of channel depth studies and the current favourable state of water levels on the Great Lakes, would mean greater cargo pay-loads for ships using the waterway.

The total tonnage of freight moving through all Canadian canals during July rose 2.6 per cent to 13,997,287 tons from 13,644,300 tons in 1966, while the cumulative volume handled this year to the end of the month increased to 51,393,599 tons from the 49,897,531 tons reported at the same time last year.

Transportation and Public Utilities Division
Transportation Section

November 1967
8702-517

TABLE 1. Vessel Passages, Registered Net Tonnage, and Tonnage of Freight for All Canals

Canal	July 1967			Tonnage of freight July 1966	Cumulative tonnage of freight	
	Number of vessel passages	Registered net tonnage of vessels	Tonnage of freight		1967	1966
Canso Canal	176	127,945	231,407	104,831	467,815	487,060
St. Lawrence Canals	1,116	4,777,661	6,158,887	6,236,841	22,937,923	22,072,952
Welland Canal	1,049	5,704,391	7,406,187	7,122,460	27,421,348	26,734,302
Sault Ste. Marie Canal - Can. lock ...	708	444,346	163,681	176,138	517,738	589,983
All other canals	573	26,897	37,125	4,030	48,775	13,234
Totals	3,622	11,081,240	13,997,287	13,644,300	51,393,599	49,897,531
Sault Ste. Marie Canal - U.S. locks ..	2,160	..	13,380,893	14,584,476	45,385,391	49,779,291

.. Figures not available.

TABLE 2. Tonnage of Freight Transported through the St. Lawrence Canals, by Commodity, and by Direction

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Meat, fresh, chilled or frozen	467	7,231	7,698	6,081	20,667	23,706
Milk powder	-	13,444	13,444	16,216	59,396	34,389
Barley	-	302,224	302,224	97,838	883,914	736,962
Corn	-	279,028	279,028	430,913	881,988	1,567,960
Oats	-	72,133	72,133	107,841	227,150	356,674
Rye	-	14,153	14,153	6,177	86,393	119,194
Wheat	-	646,740	646,740	1,625,187	4,140,480	5,240,281
Cereals, unmilled, n.e.s.	-	-	-	-	259	419
Corn meal and flour	-	15,364	15,364	7,836	42,221	30,960
Malt and malt flour	-	16,348	16,348	9,921	43,656	27,839
Wheat flour	-	12,963	12,963	37,006	43,851	88,102
Cereals, milled, n.e.s.	7	23,969	23,976	5,382	41,637	15,950
Fruits, preserved, not canned, n.e.s.	2,241	-	2,241	1,234	12,996	6,994
Fruits and preparations, canned (except infant foods)	3,356	76	3,432	2,404	9,936	11,169
Vegetables, dried	47	25,565	25,612	3,051	101,782	60,537
Vegetables and vegetable preparations, n.e.s.	647	777	1,424	1,473	13,642	11,926
Raw sugar	10,645	-	10,645	-	42,534	57,697
Molasses, crude	10,635	-	10,635	21,374	52,333	60,350
Cocoa and chocolate	2,576	34	2,610	1,381	21,716	12,878
Lard	-	6,413	6,413	3,330	28,397	17,687
Miscellaneous foods, food materials and food preparations, n.e.s.	632	15,467	16,099	1,220	23,287	6,209
Hulls, screenings, chaff and scourings	-	8,056	8,056	14,057	32,969	54,170
Concentrated and complete feeds	65	30,412	30,477	1,414	61,516	8,760
Soyabean oil meal and cake, n.e.s. ...	-	88,302	88,302	30,050	264,131	154,056
Oil seed meals and cake, n.e.s.	-	3,873	3,873	11,002	13,029	36,979
Brewers' and distillers' grains and solubles	-	297	297	268	2,755	1,426
Feeds of vegetable origin, n.e.s.	30	34,561	34,591	72,539	122,424	177,601
Ale, beer, stout and porter	1,215	14	1,229	1,484	5,962	5,461
Wines	3,613	-	3,613	3,331	15,185	19,955
Distilled alcoholic beverages	3,337	42	3,379	4,225	16,788	20,646
Raw hides and skins and undressed fur skins	159	5,456	5,615	7,203	35,461	35,887
Flaxseed	-	51,352	51,352	75,165	202,283	236,311
Rapeseed	-	7,142	7,142	-	20,894	10,595
Soybeans	-	97,062	97,062	141,169	364,666	533,163
Rubber and allied gums, natural, and natural gums and resins	2,469	-	2,469	8,882	24,815	42,842
Logs	-	916	916	1,083	12,598	19,227
Pulpwood	73,685	-	73,685	80,199	158,517	132,823
Crude wood materials, n.e.s.	1	-	1	11,973	6	12,303
Alumina and bauxite ore	26,122	73	26,195	6,720	71,166	35,443
Iron ore, crude, and concentrates, calcined, roasted or treated	2,676,198	-	2,676,198	1,662,477	8,859,720	6,510,597

TABLE 2. Tonnage of Freight Transported through the St. Lawrence Canals, by Commodity, and by Direction - Continued

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Manganese ore	47,538	-	47,538	72,678	143,353	170,246
Ores, concentrates and precipitates, n.e.s.	449	65	514	16,241	3,690	16,253
Iron and steel scrap	4,000	76,209	80,209	44,473	248,467	50,075
Non-ferrous and precious metal scrap	49	6,636	6,685	2,142	18,461	21,152
Slags, drosses and other by-products	-	253	253	204	6,110	11,079
Coal, bituminous, sub-bituminous, and lignite	129,599	22,375	151,974	165,372	582,933	616,650
Crude petroleum, petroleum tops and natural gasoline	39,665	-	39,665	9	86,394	27,933
Bentonite	-	956	956	10,025	47,077	29,170
China clay	7,819	-	7,819	4,464	20,116	10,834
Clay and other crude refractory materials, n.e.s.	-	6,063	6,063	3,179	8,075	23,553
Stone, crude, n.e.s.	1,475	3,500	4,975	1,037	6,678	5,802
Fluorspar	13,046	-	13,046	11,993	54,647	61,092
Gypsum	6,804	41	6,845	17,856	25,872	29,659
Phosphate rock	13,591	-	13,591	-	50,281	12,671
Salt	-	53,027	53,027	89,698	141,685	157,107
Crude non-metallic minerals (except coal and petroleum), n.e.s.	3,037	144	3,181	2,046	20,943	21,679
Cotton and textile rags and waste	255	1,060	1,315	1,872	4,529	10,852
Lumber and timber	2,531	1,785	4,316	1,721	11,113	8,212
Maneer, plywood and wood building boards	6,823	153	6,976	6,174	18,638	27,585
Pulp	8,231	613	8,844	6,448	25,990	18,174
Newsprint paper	49,624	-	49,624	49,983	199,077	209,530
Building paper and building board (except wood, plastic and gypsum board)	2,505	-	2,505	1,471	5,593	4,902
Ropage, twine and rope (except braided cords and threads)	1,586	186	1,772	1,622	37,274	27,349
Animal oils and fats (except marine)	5	23,486	23,491	33,015	80,450	85,506
Fish and marine animal oils	24	-	24	2,979	-	2,389
Soyabean oil	-	1,836	1,836	6,013	7,136	21,437
Vegetable oils and fats, except essential oils, n.e.s.	1,675	-	1,675	9,298	28,640	24,222
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	3,040	1,929	4,969	455	8,610	7,763
Metallic salts and peroxysalts, of inorganic acids	927	7,722	8,649	76	20,898	15,149
Inorganic chemicals, n.e.s.	1,541	223	1,764	11,829	9,956	36,309
Glycol	16	3,308	3,324	-	11,773	5,358
Organic chemicals, n.e.s.	5,214	14,311	19,525	11,859	62,439	34,695
Fertilizers and fertilizer materials, n.e.s.	22	22	44	11,366	13,626	11,672
Synthetic rubber (including rubber compounds and reclaimed rubber)	346	10,536	10,882	6,784	27,186	31,101
Plastic materials, not shaped, and plastics basic shapes and forms	739	4,052	4,791	3,507	24,131	22,902
Dyestuffs (except dyeing extracts); pigments, lakes and toners (excluding those in chemicals); and paints and related products	364	164	528	349	2,050	3,194
Chemical specialties, industrial, n.e.s.	217	1,873	2,090	5,930	9,053	14,419
Gasoline	43,623	7,257	50,880	15,274	201,834	70,380
Fuel oil	237,957	10,585	248,542	378,521	894,046	1,065,105
Lubricating oils and greases	24,300	3,509	27,809	49,177	109,751	139,602
Slake of petroleum and coal	-	22,513	22,513	16,644	141,914	84,434
Coal tar and coal pitch	7	360	367	70	5,912	5,450
Petroleum and coal products, n.e.s.	21,414	10,822	32,236	10,186	82,135	35,607
Ferro-alloys	3,208	-	3,208	8,061	35,454	24,258
Pig iron	15,838	-	15,838	30,681	110,630	103,051
Primary iron and steel, n.e.s.	5,919	-	5,919	1,177	12,502	40,493
Castings and forgings (excluding pipes and fittings)	382	6,093	6,475	1,087	10,469	15,165
Bars and rods, steel	34,039	1,235	35,274	47,151	190,769	137,142
Plate, sheet and strip, steel	211,403	11,181	222,584	225,312	857,276	756,477
Structural shapes and sheet piling	53,710	393	54,103	56,985	185,455	250,349

TABLE 2. Tonnage of Freight Transported through the St. Lawrence Canals, by Commodity, and by Direction - Concluded

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
tons						
Pipes and tubes, iron and steel (except fittings and finished electrical conduit and tubing)	5,745	713	6,458	5,575	21,813	22,738
Wire (including wire rope)	10,109	76	10,185	15,853	50,222	56,879
Aluminum (including alloys)	1,805	627	2,432	3,936	15,130	18,343
Zinc and alloys	2,084	-	2,084	559	12,017	4,775
Non-ferrous metals, n.e.s.	1,358	14	1,372	1,850	2,787	7,155
Metal fabricated basic products	15,292	842	16,134	12,756	64,020	72,743
Glass basic products	6,584	251	6,835	8,788	27,154	32,630
Cement	33	31	64	18,203	16,502	28,861
Non-metallic mineral basic products, n.e.s.	1,116	250	1,366	5,739	12,292	20,388
Bricks, tiles (clay) and refractories, n.e.s.	2,263	164	2,427	4,909	7,426	7,957
Miscellaneous fabricated materials ...	414	111	525	1,320	3,799	2,625
Tractors	6,359	1,826	8,185	8,049	27,125	29,467
Machinery, n.e.s.	10,243	6,666	16,909	16,908	67,579	54,889
Passenger automobiles and chassis ...	12,346	5,088	17,434	14,906	49,306	54,430
Motor vehicle engines, accessories, parts and assemblies	2,754	2,777	5,531	5,729	18,017	19,492
Equipment	1,964	1,721	3,685	3,802	12,273	12,936
Personal and household goods	6,538	991	7,529	4,676	24,231	13,625
Domestic package freight	22,742	36,699	59,441	75,150	181,060	246,730
Other	38,399	33,225	71,624	57,512	247,980	214,975
Total freight carried	3,970,852	2,188,035	6,158,887	6,236,841	22,937,923	22,072,952

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
tons						
Meat, fresh, chilled or frozen	286	6,849	7,135	5,634	18,849	21,173
Milk powder	-	12,670	12,670	15,461	56,877	33,544
Barley	-	318,288	318,288	107,754	950,782	815,350
Corn	-	297,048	297,048	455,783	951,653	1,656,839
Oats	-	78,220	78,220	107,281	255,030	367,737
Rye	-	15,512	15,512	6,177	90,163	125,206
Wheat	-	670,884	670,884	1,602,637	4,112,508	5,461,030
Cereals, unmilled, n.e.s.	-	67	67	-	278	417
Corn meal and flour	-	15,346	15,346	7,841	42,192	30,937
Malt and malt flour	-	17,532	17,532	9,921	44,836	40,438
Wheat flour	-	12,963	12,963	37,006	43,845	88,080
Cereals, milled, n.e.s.	-	23,969	23,969	5,382	41,603	15,922
Fruits, preserved, not canned, n.e.s.	1,499	-	1,499	802	7,138	4,465
Fruits and preparations, canned (except infant foods)	964	1	965	1,629	5,031	6,111
Vegetables, dried	43	23,290	23,333	2,841	90,577	57,966
Vegetables and vegetable preparations, n.e.s.	282	270	552	1,001	8,078	6,990
Raw sugar	-	-	-	2,468	-	20,752
Sugar, n.e.s.	6,026	3,234	9,260	4,328	30,373	4,328
Molasses, crude	19,281	2,328	21,609	14,899	60,678	36,255
Syrup	2,674	2	2,676	-	2,679	3,714
Cocoa and chocolate	1,158	-	1,158	179	10,524	8,714
Lard	-	6,413	6,413	3,330	28,397	17,674
Hulls, screenings, chaff and scourings	-	8,056	8,056	14,057	32,969	55,135
Soyabean oil meal and cake	-	73,840	73,840	26,646	183,044	108,073
Oil seed meals and cake, n.e.s.	-	3,553	3,553	11,002	12,122	35,364
Brewers' and distillers' grains and solubles	-	297	297	268	2,755	1,426

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction - Continued

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
tons						
Feeds of vegetable origin, n.e.s.	30	34,561	34,591	72,527	122,424	189,643
Concentrated and complete feeds	-	30,291	30,291	1,072	60,712	5,737
Ale, beer, stout and porter	917	14	931	1,360	5,111	4,707
Wines	2,306	-	2,306	2,200	10,562	13,587
Distilled alcoholic beverages	2,883	42	2,925	3,756	13,522	17,016
Raw hides and skins and undressed fur skins	82	3,289	3,371	4,110	22,587	23,830
Flaxseed	-	54,352	54,352	76,676	216,675	252,557
Rapeseed	-	7,142	7,142	-	20,894	10,595
Soybeans	-	140,461	140,461	169,563	565,707	684,543
Rubber and allied gums, natural, and natural gums and resins	1,756	-	1,756	7,456	20,632	34,014
Logs	-	866	866	737	7,444	18,010
Pulpwood	60,328	-	60,328	62,208	139,886	114,144
Crude wood materials, n.e.s.	1	-	1	11,773	1	12,103
Alumina and bauxite ore	26,093	73	26,166	6,720	71,137	35,443
Iron ore, crude, and concentrates, calcined, roasted or treated	2,269,693	576,472	2,846,165	1,806,069	9,260,744	7,626,487
Manganese ore	47,538	-	47,538	72,666	143,353	180,370
Ores, concentrates and precipitates, n.e.s.	449	65	514	16,241	3,690	16,253
Iron and steel scrap	4,000	76,104	80,104	48,314	228,347	57,573
Non-ferrous and precious metal scrap	43	4,474	4,517	812	13,113	15,230
Coal, bituminous, sub-bituminous, and lignite	-	1,073,273	1,073,273	863,477	4,527,197	3,663,844
Natural gas and other crude bituminous substances	-	456	456	2,678	1,418	9,202
Bentonite	-	956	956	9,995	47,077	29,140
China clay	5,958	-	5,958	2,601	14,500	5,244
Clay and other crude refractory materials, n.e.s.	-	14,560	14,560	2,700	25,860	38,735
Sand and gravel	1,102	39,993	41,095	43,597	64,381	118,763
Limestone	500	-	500	-	500	6,196
Crushed stone, including stone refuse	-	-	-	-	5,364	-
Dolomite	133,981	40	134,021	171,704	507,770	591,700
Stone, crude, n.e.s.	878	-	878	11,492	22,401	34,489
Fluorspar	11,965	-	11,965	-	48,347	47,968
Salt	-	106,595	106,595	118,147	299,466	193,789
Crude non-metallic minerals (except coal and petroleum), n.e.s.	2,733	103	2,836	1,638	19,177	24,640
Cotton and textile rags and waste	35	949	984	1,518	3,332	5,999
Veneer, plywood and wood building boards	5,308	98	5,406	3,886	12,620	20,398
Pulp	977	613	1,590	6,437	15,722	17,970
Newsprint paper	58,318	-	58,318	59,147	235,905	257,181
Cordage, twine and rope (except braided cords and threads)	912	186	1,098	1,394	26,445	22,090
Animal oils and fats (except marine)	-	23,226	23,226	32,661	77,499	83,631
Soyabean oil	-	-	-	2,192	899	11,495
Vegetable oils and fats, except essential oils, n.e.s.	506	-	506	3,645	15,002	9,888
Oils, fats, waxes, extracts and derivatives, animal and vegetable, n.e.s.	1,292	1,852	3,144	455	6,041	7,709
Metallic salts and peroxy salts, of inorganic acids	433	17,700	18,133	2,485	33,734	17,369
Inorganic chemicals, n.e.s.	1,174	5,209	6,383	26,006	46,347	71,371
Glycol	-	3,219	3,219	-	15,577	9,604
Organic chemicals, n.e.s.	5,477	18,330	23,807	13,149	76,088	39,061
Fertilizers and fertilizer materials, n.e.s.	22	12	34	7,033	187	7,244
Synthetic rubber (including rubber compounds and reclaimed rubber)	346	10,127	10,473	6,483	25,750	28,499
Plastic materials, not shaped, and plastics basic shapes and forms	137	3,625	3,762	3,066	19,249	18,966
Chemical specialties, industrial, n.e.s.	128	1,737	1,865	4,681	7,648	10,262
Gasoline	35,250	23,064	58,314	33,353	156,958	139,571
Fuel oil	95,510	80,235	175,745	227,135	480,034	555,006
Lubricating oils and greases	30,804	3,509	34,313	40,771	84,813	100,366
Coke of petroleum and coal	-	22,513	22,513	16,644	148,764	90,210
Asphalts and road oils	2,095	10,627	12,722	-	23,730	7,425

TABLE 3. Tonnage of Freight Transported through the Welland Canal, by Commodity, and by Direction - Concluded

Commodity	July 1967			Total July 1966	Cumulative total	
	Upbound	Downbound	Total		1967	1966
	tons					
Coal tar and coal pitch	-	10,420	10,420	12,430	46,318	38,832
Petroleum and coal products, n.e.s. ..	6,580	18,668	25,248	11,018	97,782	41,694
Ferro-alloys	2,081	-	2,081	8,002	33,008	22,665
Pig iron	15,838	-	15,838	30,676	105,095	102,725
Primary iron and steel, n.e.s.	5,917	-	5,917	973	7,743	59,802
Castings and forgings (excluding pipes and fittings)	312	6,053	6,365	691	10,185	10,953
Bars and rods, steel	30,396	3	30,399	44,267	169,014	124,380
Plate, sheet and strip, steel	208,943	1,929	210,872	218,752	772,229	727,058
Structural shapes and sheet piling ...	39,901	75	39,976	45,839	233,582	203,819
Pipes and tubes, iron and steel (except fittings and finished electrical conduit and tubing)	3,480	492	3,972	3,341	14,106	14,448
Wire (including wire rope)	9,223	32	9,255	14,557	44,217	50,087
Aluminum (including alloys)	1,641	90	1,731	3,189	12,153	14,431
Zinc and alloys	2,084	-	2,084	559	11,977	4,765
Non-ferrous metals, n.e.s.	1,098	14	1,112	1,764	2,306	6,306
Metal fabricated basic products	12,392	447	12,839	10,708	52,711	61,832
Glass basic products	5,646	213	5,859	7,182	22,534	25,425
Cement	5,944	11,261	17,205	21,670	149,536	66,176
Non-metallic mineral basic products, n.e.s.	866	250	1,116	3,473	9,807	13,320
Tractors	5,597	1,708	7,305	5,981	23,804	24,271
Machinery, n.e.s.	6,643	6,013	12,656	12,342	46,926	38,745
Passenger automobiles and chassis ...	10,275	5,001	15,276	13,077	41,087	45,299
Motor vehicle engines, accessories, parts and assemblies	2,534	2,387	4,921	5,093	14,218	15,305
Equipment	1,046	1,248	2,294	2,484	5,815	6,449
Domestic package freight	27,052	22,735	49,787	68,642	162,186	231,695
Other	43,907	41,934	85,841	46,993	227,684	153,313
Total freight carried	3,293,569	4,112,618	7,406,187	7,122,460	27,421,348	26,734,302

TABLE 4. Tonnage of Freight Transported through the Sault Ste. Marie Canals, by Commodity, and by Direction
July 1967

Commodity	Upbound		Downbound		Total	
	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks	Canadian lock	Canadian and U.S. locks
	tons					
Paper and woodpulp	-	-	28,158	38,549	28,158	38,549
Pulpwood, lumber and logs	100	100	3,901	12,801	4,001	12,901
Wheat	-	-	408	916,877	408	916,877
Barley	-	-	9,927	332,481	9,927	332,481
Oats	-	-	2,793	112,230	2,793	112,230
Corn	-	3,360	-	75,755	-	79,115
Rye	-	-	-	5,487	-	5,487
Flaxseed	-	-	-	51,355	-	51,355
Soyabeans	-	-	-	20,764	-	20,764
Flour	-	-	-	1,497	-	1,497
Mill products, screenings	-	-	1,827	39,898	1,827	39,898
Iron ore	-	-	-	10,331,989	-	10,331,989
Manufactured iron and steel	4,455	25,969	-	30,920	4,455	56,889
Pig iron	497	497	-	-	497	497
Scrap iron	-	-	-	11,656	-	11,656
Stone, broken, sand and gravel	-	365,070	4,600	4,600	4,600	369,670
Cement	-	41,879	-	-	-	41,879
Coal, bituminous	-	794,524	-	-	-	794,524
Coal, anthracite	-	7,591	-	-	-	7,591
Coke	-	5,100	-	-	-	5,100
Non-metallic minerals, mfrs.	-	39,355	-	-	-	39,355
Gasoline	11,416	28,250	-	7,127	11,416	35,377
Fuel oil	22,963	90,040	-	4,726	22,963	94,766
Other petroleum products	-	-	-	-	-	-
Motor vehicles	-	-	-	-	-	-
Miscellaneous merchandise	8,439	38,383	11,687	53,234	20,126	91,647
Domestic package freight	34,999	34,999	17,511	17,511	52,510	52,510
Total freight carried	82,869	1,475,117	80,812	12,069,457	163,681	13,544,374



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