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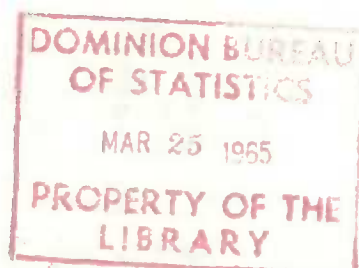
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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

Each month every firm in the primary steel industry in Canada submits a statement to the Dominion Bureau of Statistics on the distribution of steel shipments to domestic consuming industries in tons, by carbon and alloy grades. Details developed from these statements showing tonnages used by the approximately twenty major consuming industries are presented monthly in this report.

For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date. As a matter of fact, no extensive revision had been made to the form of the report since 1940. At a meeting held in October, 1963 representatives of the steel industry and the Dominion Bureau of Statistics finalized a new schedule of consuming industries based on the revised Standard Industrial Classification. This new schedule was introduced January 1, 1964, and relates to data contained in Tables 9, 15, 16 and 17.

A description of the new consuming industries is carried in the Steel Distribution Index manual which is available on request.

TABLE 1. Pig Iron Capacity, January 1, 1964

	In blast or in use		Banked, blown out or idle	
	Furnaces	Annual Capacity	Furnaces	Annual Capacity
	No.	net tons	No.	net tons
Blast furnaces	14	6,322,500	1	182,500
Electric furnaces	9	394,000	-	-
Totals	23	6,716,500	1	182,500

TABLE 2. Iron Blast Furnaces Charges(1)

	December 1964	Twelve months ended December 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	86,152	848,584
From foreign mines	99,832	1,313,991
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	211,527	2,351,361
From foreign mines	294,973	3,683,180
From own processing	152,074	1,816,431
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	19,493	197,561
Scrap iron and steel	7,348	64,903
Limestone	55,657	767,278
Dolomite	40,112	454,867
Coke	318,871	3,709,964

(1) Does not include charges into furnaces used in the smelting of titanium ores.

(2) Included with mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.).

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TABLE 3. Production and Shipments of Pig Iron and Ferro-alloys December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	419,772	3,476	494,809	8,278
Foundry (including silvery pig)(2)	36,578	45,786	39,930	39,489
Malleable	29,663	17,278	21,496	10,140
Total pig iron	486,013	66,540	556,235	57,907
Ferro-alloys	13,859	12,590	17,346	16,695
Stocks of pig iron on hand at end of month	197,630		184,616	

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 4. Production and Shipments of Pig Iron and Ferro-alloys Twelve Months Ended December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	5,084,882	66,196	5,658,853	76,510
Foundry (including silvery pig)(2)	308,951	329,237	435,621	457,110
Malleable	521,164	363,524	446,205	303,144
Total pig iron	5,914,997	758,957	6,540,679	836,764
Ferro-alloys	143,702	142,768	165,925	177,496

(1) Includes amounts for sale and for own use.

(2) Includes the re-melt iron product produced in connection with the smelting of titanium ores.

TABLE 5. Steel Furnace Capacity at First of January 1964

	Annual capacity
	net tons of 2,000 pounds
Ingots - Basic open hearth	5,420,000
Electric	1,015,500
Oxygen	2,550,000
Total ingots	8,985,500
Steel castings	493,740
Total ingots and castings	9,479,240

TABLE 6. Pig Iron and Scrap charged to Steel Furnaces

	December		Twelve months ended December	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	429,151	478,600	5,084,606	5,655,834
Scrap - Own make	197,856	217,148	2,287,358	2,551,920
Purchased	145,670	170,537	1,777,810	2,077,296
Total pig iron and scrap	77,,677	866,285	9,149,774	10,285,050

TABLE 7. Production and Shipments of Steel Ingots and Castings December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	614,908	451	677,702	243
Electric	55,801	8,086	80,205	8,609
Oxygen	(2)	-	(2)	-
Total steel ingots	670,709	8,537	757,907	8,852
Alloy steel ingots included in above	36,921	687	49,914	1,310
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	889	889	-	-
Electric	12,212	11,399	13,030	13,579
Other	-	-	-	-
Total steel castings	13,101	12,288	13,030	13,579
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	582	371	447	514
High alloy, manganese and abrasion resistant	2,208	1,987	2,207	2,131
All other alloys	756	720	958	1,017
Total alloy castings	3,546	3,078	3,612	3,662

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 8. Production and Shipments of Steel Ingots and Castings Twelve Months Ended December

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Steel ingots (both carbon and alloy):</u>				
Basic open hearth	7,322,734	154,394	8,119,352	80,936
Electric	742,138	117,529	849,632	112,334
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	8,064,872	271,923	8,968,984	193,270
Alloy steel ingots included in above	400,062	11,254	535,759	15,755
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	6,729	6,731	1,628	1,628
Electric	118,678	115,202	160,151	149,626
Other	-	-	-	-
Total steel castings	125,407	121,933	161,779	151,254
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,944	3,448	4,616	4,392
High alloy, manganese and abrasion resistant ..	22,211	21,427	25,965	25,828
All other alloys	6,978	6,573	9,616	9,132
Total alloy castings	33,133	31,448	40,197	39,352

(1) Includes amounts for sale and for own use.

(2) Included with "Basic open hearth".

Note: High alloy castings include all castings with an alloy content of 8% and over.

TABLE 9. Disposition of Shipments(1) of Steel Castings

	December 1964		Twelve months ended December 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	504	526	4,960	5,237
Automotive and aircraft industries	495	39	6,273	349
Agricultural (including implement and equipment manufacturers)	84	16	1,306	224
Construction (including public works, public utilities and structural steel fabricators) ...	84	140	885	2,258
Machinery and tools	1,563	483	19,898	5,898
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,092	1,381	13,088	15,218
Railway operating	3,615	440	43,969	4,392
Railroad cars and locomotives	2,061	204	17,825	1,543
Shipbuilding	45	35	549	201
Miscellaneous and unclassified	190	398	2,813	4,032
Total	9,733	3,662	111,566	39,352

(1)-(a) Compiled by principal consuming industries, according to the Steel Distribution Index revised 1964, copies of which are available on request.

(b) Includes producers' own-make castings allocated to appropriate consuming industry.

TABLE 10. Monthly Production of Pig Iron, Ferro-alloys and Steel Ingots and Castings

	Pig iron	Ferro- alloys	Steel		Total steel
			Ingots	Castings	
			net tons of 2,000 pounds		
<u>1963</u>					
January	409,055	11,003	651,556	8,659	660,215
February	378,119	10,623	580,571	10,209	590,780
March	451,017	11,024	667,115	11,133	678,248
April	482,210	13,105	690,822	11,223	702,045
May	538,140	12,542	742,700	10,925	753,625
June	534,005	9,814	671,107	10,181	681,288
July	539,271	11,128	651,001	6,442	657,443
August	545,472	12,258	692,121	8,152	700,273
September	504,801	13,526	659,657	10,589	670,246
October	528,696	11,289	686,171	12,450	698,621
November	518,198	13,531	701,342	12,343	713,685
December	486,013	13,859	670,709	13,101	683,810
Totals	5,914,997	143,702	8,064,872	125,407	8,190,279
<u>1964</u>					
January	521,046	12,923	705,824	13,215	719,039
February	510,240	14,046	701,449	13,016	714,465
March	564,889	12,753	771,389	13,343	784,732
April	560,598	14,429	750,678	15,315	765,993
May	569,382	14,043	784,599	14,478	799,077
June	546,197	11,867	740,182	15,050	755,232
July	556,322	12,908	726,712	11,283	737,995
August	575,150	11,114	760,056	12,376	772,432
September	554,429	13,778	735,154	13,190	748,344
October	515,056	15,431	778,471	13,990	792,461
November	511,135	15,287	756,563	13,493	770,056
December	556,235	17,346	757,907	13,030	770,937
Totals	6,541,039	165,925	8,968,984	161,779	9,130,763

TABLE 11. Production and Shipments of Steel Pipes, Tubes and Fittings December

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	12,484	11,438	19,595	17,802
Over 4 1/2" outside diameter (including all sizes of casing)	13,574	11,615	20,674	20,741
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	9,622	9,458	7,795	8,839
Totals	35,680	32,511	48,064	47,382
<u>Steel pipe fittings:</u>				
Buttwelding fittings	132	81	112	104
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	511	418	524	564
Totals	643	499	636	668

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings Twelve Months Ended December

	1963		1964	
	Made	Shipped	Made	Shipped
	net tons of 2,000 pounds			
<u>Pipe, welded and seamless:</u>				
4 1/2" outside diameter and under (excluding casing)	176,892	179,816	226,978	218,816
Over 4 1/2" outside diameter (including all sizes of casing)	312,297	316,156	438,574	432,958
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	84,080	77,705	90,347	87,326
Totals	573,269	573,677	755,899	739,100
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,664	1,806	1,787	1,879
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	6,274	6,506	6,308	6,668
Totals	7,938	8,312	8,095	8,547

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, December 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	9,369	20,599	7,383	13,216
For forging and piercing	24,618	25,851	-	25,851
Rails	24,726	32,990	-	32,990
Wire rods	39,594	40,527	-	40,527
Structural shapes:				
Heavy, including piling	43,708	45,906	-	45,906
Light	2,276	3,272	-	3,272
Concrete reinforcing bars	43,405	47,510	-	47,510
Other hot rolled bars	44,146	40,968	4,343	36,625
Tie plates and track material:				
Angle bars	940	620	-	620
Tie plates	1,627	5,170	-	5,170
Track spikes	1,335	1,038	-	1,038
Plates (including plates for pipes and tubes)	68,397	72,369	-	72,369
Hot rolled sheets	155,190	149,603	82,346	67,257
Hot rolled strip	109,381	104,569	89,932	14,637
Total hot rolled products ...	568,712	590,992	184,004	406,988
<u>Cold rolled and coated:</u>				
Cold finished bars	4,917	4,921	-	4,921
Cold reduced sheets and strip, tin mill black plate and tin plate	181,185	180,201	66,539	113,662
Galvanized sheets	38,792	38,335	-	38,335
Total cold rolled and coated ..	224,894	223,457	66,539	156,918
Total carbon steel	793,606	814,449	250,543	563,906
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,817	3,817	-	3,817
Alloy plates	866	461	-	461
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	14,933	13,685	136	13,549
Cold finished bars	693	819	-	819
Wire rods	412	526	-	526
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,930	3,649	-	3,649
Total alloy steel	24,651	22,957	136	22,821

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Twelve Months Ended December 1964

	Production	Total of all shipments	Shipments for further processing	Net shipments
net tons of 2,000 pounds				
<u>Carbon steel:</u>				
<u>Hot rolled:</u>				
Semi-finished shapes:				
For re-rolling	241,455	239,868	131,717	108,151
For forging and piercing	217,050	223,786	-	223,786
Rails	253,678	269,044	-	269,044
Wire rods	439,713	437,735	-	437,735
Structural shapes:				
Heavy, including piling	445,579	462,292	-	462,292
Light	101,316	105,582	-	105,582
Concrete reinforcing bars	529,351	564,332	-	564,332
Other hot rolled bars	493,144	491,779	54,020	437,759
Tie plates and track material:				
Angle bars	13,976	13,291	-	13,291
Tie plates	59,384	59,491	-	59,491
Track spikes	8,624	8,086	-	8,086
Plates (including plates for pipes and tubes)	862,506	855,407	-	855,407
Hot rolled sheets	1,769,014	1,751,175	952,306	798,869
Hot rolled strip	1,469,965	1,445,000	1,224,568	220,432
Total hot rolled products ...	6,904,755	6,926,868	2,362,611	4,564,257
<u>Cold rolled and coated:</u>				
Cold finished bars	60,202	60,560	-	60,560
Cold reduced sheets and strip, tin mill black plate and tin plate	2,321,753	2,307,857	972,473	1,335,384
Galvanized sheets	478,583	475,117	-	475,117
Total cold rolled and coated ..	2,860,538	2,843,534	972,473	1,871,061
Total carbon steel	9,765,293	9,770,402	3,335,084	6,435,318
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	294	294	294	-
For forging and piercing	49,009	46,449	-	46,449
Alloy plates	14,919	10,568	-	10,568
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	173,171	166,970	1,709	165,261
Cold finished bars	8,086	8,345	-	8,345
Wire rods	5,118	4,826	-	4,826
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	40,110	39,482	-	39,482
Total alloy steel	290,707	276,934	2,003	274,931

TABLE 15. Disposition of Shipments(1) of Rolled Steel Products

SDI No.	December 1964		Twelve months ended December 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	90,026	952	936,072	11,366
5 Export	93,339	3,311	745,258	38,474
6 Automotive and aircraft industries ..	39,612	8,932	385,845	106,294
7 Agricultural	17,697	77	182,133	3,618
8a Contractors - Building	18,928	59	230,656	135
b Construction - Public and utility ...	1,050	-	28,527	31
c Structural steel fabricators	76,327	310	881,855	2,406
9 Containers	17,579	40	413,457	406
10 Machinery and tools	17,696	2,887	197,768	32,958
11 Wire, wire products and fasteners ...	49,217	1,044	510,816	11,732
12 Natural resources and extractive industries	15,001	1,971	132,446	22,731
13 Appliances and utensils	18,308	235	214,944	2,285
14 Other metal stamping and pressing ..	30,880	244	445,421	4,272
16 Railway operating	9,405	26	208,116	491
17 Railroad cars and locomotives	9,658	343	78,883	902
18 Shipbuilding	12,463	56	101,858	6,715
19 Pipes and tubes	45,798	2,332	721,471	29,987
20 Miscellaneous	922	2	19,792	128
Net shipments	563,906	22,821	6,435,318	274,931

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

TABLE 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, December 1964

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars
				Heavy including piling	Light		
net tons of 2,000 pounds							
4	Wholesalers and ware houses	-	175	438	11,147 (-1,823) (3)	14,618	8,047
5	Export	13,431	24,641	80	133 272	443	3,430
6	Automotive and air-craft industries	3,926	-	90	160 57	-	11,344
7	Agricultural	-	-	24	1,417 816	-	4,604
8a	Contractors - Building ...	222	-	297	733 220	10,636	425
b	Construction - Public and utility	-	72	-	101 -	736	-
c	Structural steel fabri- cators	42	15	157	26,551 2,327	14,345	1,963
9	Containers	-	-	27	- -	-	183
10	Machinery and tools	495	172	336	1,048 442	20	3,419
11	Wire, wire products and fasteners	675	-	39,543	37 92	-	7,221
12	National resources and extractive industries ..	5,774(4)	855	15	511 245	740	4,961
13	Appliances and utensils ..	100	-	6	35 6	-	200
14	Other metal stamping and pressing	-	210	13	170 393	5,715	2,591
16	Railway operating	-	6,845	-	49 44	-	399
17	Railroad cars and loco- motives	3,053	-	19	1,695 72	-	736
18	Shipbuilding	-	5	8	2,047 99	-	360
19	Pipes and tubes	15,166	-	-	- -	-	86
20	Miscellaneous	-	-	-	72 10	257	205
<hr/>							
Net shipments		42,884	32,990	41,053	45,906 3,272	47,510	50,174

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

(3) Negative entry reflects year to date adjustments not available on a monthly basis.

(4) Includes adjustment year to date not available on a monthly basis.

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, December 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
42	17,516	15,244	343	1,714	14,850	8,667	90,978	4
5,163	1,536	8,056	-	151	33,832	5,482	96,650	5
-	230	11,571	5,459	1,212	13,375	1,120	48,544	6
-	1,025	6,617	122	1,186	1,555	408	17,774	7
7	2,302	1,109	23	-	1,373	1,640	18,987	8a
-	-	-	-	-	141	-	1,050	b
-	15,746	2,563	481	47	3,177	9,223	76,637	c
-	-	172	67	2	16,824	344	17,619	9
2	4,523	3,821	98	701	4,615	891	20,583	10
11	-	1,250	80	287	903	162	50,261	11
59	2,122	546	-	76	1,038	30	16,972	12
-	1,288	4,299	134	126	10,355	1,994	18,543	13
-	455	3,690	189	213	10,234	7,251	31,124	14
1,478	193	203	-	1	-	219	9,431	16
56	1,764	1,879	-	9	144	574	10,001	17
-	9,723	229	-	1	24	23	12,519	18
-	14,407	6,008	7,641	-	4,515	307	48,130	19
10	-	-	-	14	356	-	924	20
6,828	72,830	67,257	14,637	5,740	117,311	38,335	586,727	

TABLE 18. Disposition of Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1964

December 1964

SDI No.	Semi- finished shapes	Rails	Wire rods	Structural shapes		Concrete rein- forcing bars	Other hot rolled bars	
				Heavy including piling	Light			
net tons of 2,000 pounds								
4	Wholesalers and ware houses	1,649	2,790	8,502	101,103	31,672	158,403	89,380
5	Export	116,709	109,070	6,171	4,624	9,192	1,031	39,939
6	Automotive and air-craft industries	38,053	2	1,078	1,720	904	13	142,654
7	Agricultural	24	-	255	7,689	9,191	92	57,214
8a	Contractors - Building ...	256	109	4,356	9,144	5,443	130,298	5,591
b	Construction - Public and utility	7	185	5	3,732	244	20,624	356
c	Structural steel fabri- cators	457	849	7,429	286,398	30,714	141,333	26,931
9	Containers	-	-	148	-	-	-	1,931
10	Machinery and tools	6,172	1,640	3,831	8,511	3,285	3,851	37,083
11	Wire, wire products and fasteners	6,144	-	404,991	243	1,953	2,263	73,374
12	National resources and extractive industries ..	9,089	7,485	779	10,460	1,498	17,973	69,225
13	Appliances and utensils ..	100	-	77	334	79	4	1,740
14	Other metal stamping and pressing	675	797	2,688	2,045	8,561	85,381	38,359
16	Railway operating	24	143,239	1	812	643	56	5,604
17	Railroad cars and loco- motives	19,843	2,420	105	13,385	887	-	7,982
18	Shipbuilding	21	177	17	11,047	683	4	3,671
19	Pipes and tubes	179,110	2	-	54	-	-	268
20	Miscellaneous	53	279	2,128	991	633	3,006	2,618
Net shipments		378,386	269,044	442,561	462,292	105,582	564,332	603,020

(1) Compiled by principal consuming industries, according to the "Steel Distribution Index", revised January 1964, copies of which are available on request.

(2) Includes silicon sheets and strips and stainless steel.

TABLE 19. Disposition of Shipments(1) of Rolled Steel Products, by Product, Twelve Months Ended December 1964

Tie plates and track material	Plates including plates for pipes and tubes	Hot rolled sheets	Hot rolled strip	Cold finished bars	Cold reduced sheets and strip, tin mill black- plate and tin plate(2)	Gal- vanized sheets	Total	SDI No.
net tons of 2,000 pounds								
749	152,254	143,043	1,152	20,429	144,217	92,095	947,438	4
34,278	24,956	117,963	295	422	253,111	65,971	783,732	5
1	4,077	111,932	37,464	15,831	124,822	13,588	492,139	6
-	12,063	57,133	1,237	11,667	19,666	9,520	185,751	7
172	23,909	12,013	783	-	10,421	28,296	230,791	8a
62	2	1,682	-	-	1,659	-	28,558	b
16	163,938	55,900	3,929	557	37,884	127,926	884,261	c
-	71	2,422	949	14	406,700	2,528	413,853	9
7	58,209	39,765	2,245	8,617	50,364	7,146	230,726	10
86	168	13,711	685	5,862	10,163	2,905	522,548	11
1,374	23,614	4,713	74	884	6,566	1,443	155,177	12
-	21,690	46,732	1,888	1,059	123,403	20,123	217,229	13
-	10,970	66,556	13,489	3,229	121,368	95,575	449,693	14
43,528	7,105	2,705	-	65	330	1,603	205,715	16
545	24,173	10,205	-	46	1,301	1,785	82,677	17
4	90,273	1,716	-	47	336	577	108,573	18
-	247,460	108,099	156,242	3	56,406	3,814	751,458	19
46	1,043	2,579	-	173	6,149	222	19,920	20
80,868	865,975	798,869	220,432	68,905	1,374,866	475,117	6,710,249	

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