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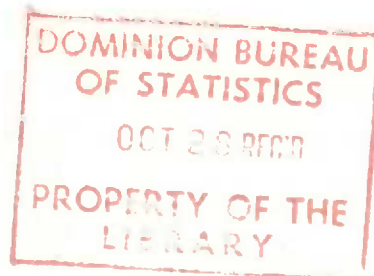
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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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)

	August 1964	Eight months ended August 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	79,339	503,981
From foreign mines	57,052	1,019,840
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	202,080	1,585,903
From foreign mines	372,237	2,443,895
From own processing	167,264	1,236,045
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	10,921	128,550
Scrap iron and steel	4,811	40,939
Limestone	62,651	533,101
Dolomite	41,388	320,619
Coke	319,703	2,507,232

(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.).

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

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Pig iron:				
Basic	453,611	2,959	519,996	5,065
Foundry (including silvery pig)(2)	36,518	35,404	34,983	51,956
Malleable	55,343	38,673	20,171	34,102
Total pig iron	545,472	77,036	575,150	91,123
Ferro-alloys	12,258	13,332	11,114	14,399
Stocks of pig iron on hand at end of month	318,340		250,137	

(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, Eight Months Ended August

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
Pig iron:				
Basic	3,364,275	38,308	3,806,305	42,703
Foundry (including silvery pig)(2)	162,694	144,105	283,879	285,163
Malleable	350,320	197,527	313,640	195,936
Total pig iron	3,877,289	379,940	4,403,824	523,802
Ferro-alloys	91,497	93,150	104,083	114,351

(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

	August		Eight months ended August	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	443,548	495,971	3,335,355	3,770,231
Scrap - Own make	194,885	213,536	1,487,369	1,663,385
Purchased	141,365	159,686	1,227,076	1,369,792
Total pig iron and scrap	779,798	869,193	6,049,800	6,803,408

TABLE 7. Production and Shipments of Steel Ingots and Castings, August

	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	625,037	21,757	695,489	11,415
Electric	67,084	10,310	64,567	9,886
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	692,121	32,067	760,056	21,301
Alloy steel ingots included in above	35,654	555	42,567	1,417
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	552	552	-	-
Electric	7,600	7,210	12,376	11,074
Other	-	-	-	-
Total steel castings	8,152	7,762	12,376	11,074
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	266	256	322	297
High alloy, manganese and abrasion resistant	1,691	1,467	2,040	2,034
All other alloys	237	374	616	598
Total alloy castings	2,194	2,097	2,978	2,929

(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, Eight Months Ended August

	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	4,845,384	104,088	5,414,866	31,638
Electric	501,609	82,825	526,023	75,553
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	5,346,993	186,913	5,940,889	107,191
Alloy steel ingots included in above	259,340	8,041	339,346	10,366
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	3,610	3,612	1,628	1,628
Electric	73,314	70,259	106,448	96,195
Other	-	-	-	-
Total steel castings	76,924	73,871	108,076	97,823
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	2,389	2,200	2,795	2,571
High alloy, manganese and abrasion resistant ..	13,201	13,227	17,112	17,164
All other alloys	3,813	3,805	6,358	5,799
Total alloy castings	19,403	19,232	26,265	25,534

(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

	August 1964		Eight months ended August 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	486	390	3,450	3,810
Automotive and aircraft industries	411	27	4,161	220
Agricultural (including implement and equipment manufacturers)	101	17	924	151
Construction (including public works, public utilities and structural steel fabricators) ...	67	224	517	1,762
Machinery and tools	1,485	375	13,242	3,910
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	883	1,220	8,290	9,475
Railway operating	2,894	268	30,743	2,939
Railroad cars and locomotives	1,569	106	8,599	758
Shipbuilding	41	44	319	143
Miscellaneous and unclassified	208	258	2,044	2,366
Total	8,115	2,929	72,259	25,534

(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		
			Ingots	Castings	Total steel
			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					
October					
November					
December					
Totals					

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

	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)	21,402	14,685	19,610	20,698
Over 4 1/2" outside diameter (including all sizes of casing)	20,438	27,488	47,766	45,884
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	7,278	6,744	7,498	7,070
Totals	49,118	48,917	74,874	73,652
<u>Steel pipe fittings:</u>				
Buttwelding fittings	113	192	73	112
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	535	542	476	552
Totals	648	734	549	664

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings, Eight Months Ended August

	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)	125,040	120,621	136,033	134,165
Over 4 1/2" outside diameter (including all sizes of casing)	241,034	243,076	342,785	333,864
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	51,718	46,218	63,284	59,423
Totals	417,792	409,915	542,102	527,452
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,092	1,282	1,221	1,374
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	4,034	4,367	4,113	4,401
Totals	5,126	5,649	5,334	5,775

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, August 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	15,557	20,772	9,352	11,420
For forging and piercing	18,647	16,673	-	16,673
Rails	22,758	16,505	-	16,505
Wire rods	34,033	33,842	-	33,842
Structural shapes:				
Heavy, including piling	30,889	35,879	-	35,879
Light	3,547	4,088	-	4,088
Concrete reinforcing bars	57,094	55,771	-	55,771
Other hot rolled bars	38,943	42,859	5,091	37,768
Tie plates and track material:				
Angle bars	1,216	1,264	-	1,264
Tie plates	3,662	3,370	-	3,370
Track spikes	306	355	-	355
Plates (including plates for pipes and tubes)	68,309	68,319	-	68,319
Hot rolled sheets	145,946	138,956	77,426	61,530
Hot rolled strip	123,098	123,039	103,657	19,382
Total hot rolled products ...	564,005	561,692	195,526	366,166
<u>Cold rolled and coated:</u>				
Cold finished bars	4,539	4,704	-	4,704
Cold reduced sheets and strip, tin mill black plate and tin plate	194,884	193,032	86,862	106,170
Galvanized sheets	42,060	39,892	-	39,892
Total cold rolled and coated ..	241,483	237,628	86,862	150,766
Total carbon steel	805,488	799,320	282,388	516,932
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	37	37	37	-
For forging and piercing	4,575	4,075	-	4,075
Alloy plates	1,328	1,155	-	1,155
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	17,668	17,022	170	16,852
Cold finished bars	569	566	-	566
Wire rods	278	372	-	372
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	2,576	2,704	-	2,704
Total alloy steel	27,031	25,931	207	25,724

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Eight Months Ended August 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	167,487	161,717	100,142	61,575
For forging and piercing	133,859	140,398	-	140,398
Rails	167,858	180,304	-	180,304
Wire rods	295,137	293,635	-	293,635
Structural shapes:				
Heavy, including piling	279,180	297,410	-	297,410
Light	70,751	74,747	-	74,747
Concrete reinforcing bars	332,709	359,298	-	359,298
Other hot rolled bars	322,949	325,415	37,059	288,356
Tie plates and track material:				
Angle bars	10,764	10,315	-	10,315
Tie plates	47,490	44,013	-	44,013
Track spikes	6,227	6,309	-	6,309
Plates (including plates for pipes and tubes)	581,915	575,601	-	575,601
Hot rolled sheets	1,178,054	1,169,491	633,171	536,320
Hot rolled strip	972,263(1)	967,356	802,592	164,764
Total hot rolled products ...	4,566,643(2)	4,606,009	1,572,964	3,033,045
<u>Cold rolled and coated:</u>				
Cold finished bars	40,354	39,960	-	39,960
Cold reduced sheets and strip, tin mill black plate and tin plate	1,561,448	1,560,857	668,381	892,476
Galvanized sheets	308,995	305,738	-	305,738
Total cold rolled and coated ..	1,910,797	1,906,555	668,381	1,238,174
Total carbon steel	6,477,440(3)	6,512,564	2,241,345	4,271,219
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	226	226	226	-
For forging and piercing	34,130	32,331	-	32,331
Alloy plates	11,182	8,094	-	8,094
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	108,143	104,757	1,025	103,732
Cold finished bars	5,356	5,368	-	5,368
Wire rods	3,503	3,238	-	3,238
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	25,824	25,679	-	25,679
Total alloy steel	188,364	179,693	1,251	178,442

(1) Includes revision for July which should read 119,710 instead of 21,473.

(2) Includes revision for July which should read 561,871 instead of 463,634.

(3) Includes revision for July which should read 811,923 instead of 713,686.

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

SDI No.	August 1964		Eight months ended August 1964	
	Carbon	Alloy	Carbon	Alloy
net tons of 2,000 pounds				
4 Wholesalers and warehouses	73,821	640	584,594	7,305
5 Export	61,629	3,537	455,221	25,644
6 Automotive and aircraft industries ..	31,087	10,418	240,017	65,406
7 Agricultural	14,122	739	110,900	2,440
8a Contractors - Building	19,418	-	146,502	28
b Construction - Public and utility ...	2,295	31	21,099	31
c Structural steel fabricators	75,562	160	573,633	1,449
9 Containers	41,165	19	304,776	309
10 Machinery and tools	15,326	2,519	130,000	21,171
11 Wire, wire products and fasteners ...	40,321	1,281	342,679	7,675
12 Natural resources and extractive industries	9,503	1,938	81,298	14,399
13 Appliances and utensils	15,954	60	149,722	1,407
14 Other metal stamping and pressing ..	35,834	154	300,332	3,364
16 Railway operating	9,935	39	176,342	352
17 Railroad cars and locomotives	6,892	176	49,514	444
18 Shipbuilding	7,100	1,080	59,945	6,034
19 Pipes and tubes	55,599	2,928	529,782	20,915
20 Miscellaneous	1,369	5	14,863	69
Net shipments	516,932	25,724	4,271,219	178,442

(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, August 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	299	38	812	7,827	1,354	15,492	6,557
5	Export	12,375	8,176	306	4	17	-	3,677
6	Automotive and air-craft industries	2,471	-	88	24	49	-	15,131
7	Agricultural	4	-	12	542	147	22	6,147
8a	Contractors - Building ...	-	1	528	140	416	12,451	545
b	Construction - Public and utility	7	30	1	520	8	1,567	65
c	Structural steel fabri- cators	32	29	1,193	24,554	1,233	14,399	1,369
9	Containers	-	-	7	-	-	-	133
10	Machinery and tools	500	19	326	326	168	804	3,197
11	Wire, wire products and fasteners	594	-	30,809	-	72	231	6,733
12	National resources and extractive industries ..	173	778	28	737	89	1,272	5,693
13	Appliances and utensils ..	-	-	-	-	10	4	205
14	Other metal stamping and pressing	5	60	115	9	433	7,043	2,758
16	Railway operating	-	7,374	-	-	15	-	408
17	Railroad cars and loco- motives	1,251	-	2	628	5	-	1,387
18	Shipbuilding	1	-	1	403	30	-	230
19	Pipes and tubes	14,436	-	-	-	-	-	-
20	Miscellaneous	-	-	26	165	37	586	185
Net shipments		32,168	16,505	34,214	35,879	4,088	55,771	54,620

(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 16. Disposition of Shipments(1) of Rolled Steel Products, by Product, August 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								
32	12,365	10,357	209	1,584	10, 480	7,055	74,461	4
3,883	1,776	11,425	-	26	17,859	5,642	65,166	5
-	547	7,692	4,552	1,446	8,253	1,252	41,505	6
-	964	3,755	99	622	1,942	605	14,861	7
-	2,410	823	31	-	701	1,372	19,418	8a
19	-	-	-	-	109	-	2,326	b
-	12,305	5,257	397	33	2,181	10,655	75,722	c
-	-	208	86	1	40,656	93	41,184	9
2	5,263	2,245	95	591	2,944	1,365	17,845	10
-	19	1,260	73	503	831	477	41,602	11
41	1,884	253	50	57	337	49	11,441	12
-	2,132	3,758	206	121	8,334	1,244	16,014	13
-	858	4,560	1,224	260	8,815	9,848	35,988	14
1,012	934	222	-	9	-	-	9,974	16
-	2,992	737	-	3	8	55	7,068	17
-	7,393	79	-	3	18	22	8,180	18
-	17,609	8,898	12,360	1	5,066	157	58,527	19
-	23	1	-	10	340	1	1,374	20
4,989	69,474	61,530	19,382	5,270	108,874	39,892	542,656	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 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	584	1,711	5,636	59,396	23,963	103,766	57,689
5	Export	68,124	47,923	4,595	4,007	8,836	584	25,763
6	Automotive and air-craft industries	23,978	2	688	1,125	628	-	89,192
7	Agricultural	10	-	178	4,312	5,014	34	34,965
8a	Contractors - Building ...	34	109	2,687	5,076	3,302	85,158	3,552
b	Construction - Public and utility	7	113	2	3,317	202	14,430	356
c	Structural steel fabri- cators	247	649	5,783	191,387	20,571	80,405	17,438
9	Containers	-	-	96	-	-	-	756
10	Machinery and tools	4,278	462	2,738	4,612	2,101	3,573	25,042
11	Wire, wire products and fasteners	4,140	-	269,542	185	1,408	1,785	51,390
12	National resources and extractive industries ..	2,434	4,859	506	6,954	1,014	9,838	44,330
13	Appliances and utensils ..	-	-	54	288	49	4	1,157
14	Other metal stamping and pressing	595	380	2,424	1,817	5,929	58,134	27,005
16	Railway operating	18	121,336	1	748	308	39	4,167
17	Railroad cars and loco- motives	11,110	2,420	49	7,381	419	-	5,067
18	Shipbuilding	10	85	1	6,043	425	4	2,419
19	Pipes and tubes	118,682	2	-	54	-	-	116
20	Miscellaneous	53	253	1,893	708	478	1,544	1,684
Net shipments		234,304	180,304	296,873	297,410	74,747	359,298	392,088

- (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 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Eight Months Ended August 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								
506	88,780	88,059	457	13,751	91,133	56,468	591,899	4
17,087	18,140	90,023	295	164	154,450	40,874	480,865	5
-	2,636	67,852	25,316	10,621	75,422	7,963	305,423	6
-	6,983	34,728	479	7,358	13,161	6,118	113,340	7
163	15,240	7,043	592	-	6,184	17,390	146,530	8a
62	2	1,682	-	-	957	-	21,130	b
8	105,508	38,837	1,783	282	25,285	86,799	575,082	c
-	40	1,632	665	9	300,300	1,587	305,085	9
3	39,700	24,615	1,483	5,550	32,440	4,574	151,171	10
51	111	8,732	509	4,011	6,175	2,315	350,354	11
1,123	15,807	3,300	69	581	3,760	1,122	95,697	12
-	15,692	32,726	1,284	520	86,133	13,222	151,129	13
-	5,623	47,836	10,852	2,271	77,974	62,856	303,696	14
41,118	5,634	2,114	-	57	139	1,015	176,694	16
478	16,472	5,231	-	18	879	434	49,958	17
2	55,243	1,027	-	37	298	385	65,979	18
-	191,270	78,304	120,980	3	38,763	2,523	550,697	19
36	814	2,579	-	95	4,702	93	14,932	20
60,637	583,695	536,320	164,764	45,328	918,155	305,738	4,449,661	

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