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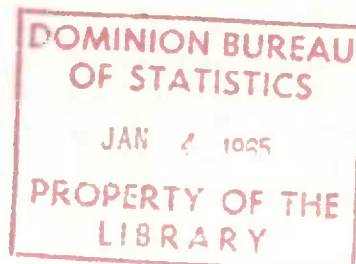
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DISPOSITION OF SHIPMENTS OF ROLLED STEEL PRODUCTS AND STEEL CASTINGS

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For some time it was recognized that the industry classifications being used to indicate steel distribution were badly out of date.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

	October 1964	Ten months ended October 1964
	net tons of 2,000 pounds	
<u>Crude iron ore:</u>		
From Canadian mines	76,086	674,158
From foreign mines	69,640	1,143,242
Pyrite cinder	(2)	(2)
<u>Iron ore (sintered, pelletized, etc.):</u>		
From Canadian mines	195,618	1,959,375
From foreign mines	285,814	3,102,139
From own processing	150,783	1,528,187
Mill cinder, roll scale, slag and flue dust (not sintered, pelletized, etc.)	18,845	160,188
Scrap iron and steel	3,215	50,176
Limestone	58,828	653,763
Dolomite	27,067	388,070
Coke	285,330	3,103,357

(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, October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	440,636	13,160	440,141	6,857
Foundry (including silvery pig)(2)	36,746	37,741	37,050	49,886
Malleable	51,314	64,233	37,865	21,604
Total pig iron	528,696	115,134	515,056	78,347
Ferro-alloys	11,289	12,482	15,431	14,098
Stocks of pig iron on hand at end of month	263,684		223,880	

(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 Ten Months Ended October

	1963		1964	
	Tonnage made(1)	Tonnage shipped	Tonnage made(1)	Tonnage shipped
	net tons of 2,000 pounds			
<u>Pig iron:</u>				
Basic	4,234,272	58,641	4,723,094	55,082
Foundry (including silvery pig)(2)	233,279	229,986	354,980	364,941
Malleable	443,235	298,571	395,235	249,454
Total pig iron	4,910,786	587,198	5,473,309	669,477
Ferro-alloys	116,312	117,080	133,292	142,876

(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

	October		Ten months ended October	
	1963	1964	1963	1964
	net tons of 2,000 pounds			
Pig iron	448,203	474,750	4,205,507	4,701,514
Scrap - Own make	206,687	235,687	1,884,210	2,111,134
Purchased	125,016	189,363	1,483,146	1,732,730
Total pig iron and scrap	779,906	899,800	7,572,863	8,545,378

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

	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	624,146	16,703	692,122	19,624
Electric	62,025	9,491	86,349	9,725
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	686,171	26,194	778,471	29,349
Alloy steel ingots included in above	33,992	767	46,600	1,365
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	739	739	-	-
Electric	11,711	10,604	13,990	13,183
Other	-	-	-	-
Total steel castings	12,450	11,343	13,990	13,183
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	382	318	440	390
High alloy, manganese and abrasion resistant	2,221	2,170	2,277	2,383
All other alloys	804	649	758	776
Total alloy castings	3,407	3,137	3,475	3,549

(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, Ten Months Ended October

	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	6,066,604	139,516	6,766,146	58,283
Electric	626,217	101,531	688,368	94,340
Oxygen	(2)	(2)	(2)	(2)
Total steel ingots	6,692,821	241,047	7,454,514	152,623
Alloy steel ingots included in above	326,968	9,756	438,082	12,898
<u>Steel castings (both carbon and alloy):</u>				
Basic open hearth	4,996	4,998	1,628	1,628
Electric	94,967	93,321	133,628	122,528
Other	-	-	-	-
Total steel castings	99,963	98,319	135,256	124,156
<u>Alloy steel castings included in above:</u>				
High alloy, except manganese and abrasion resistant	3,025	2,754	3,719	3,452
High alloy, manganese and abrasion resistant ..	17,762	17,216	21,577	21,612
All other alloys	5,519	5,197	7,871	7,347
Total alloy castings	26,306	25,167	33,167	32,411

(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

	October 1964		Ten months ended October 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
Export	258	250	4,209	4,434
Automotive and aircraft industries	600	29	5,211	279
Agricultural (including implement and equipment manufacturers)	82	16	1,128	186
Construction (including public works, public utilities and structural steel fabricators) ...	53	94	612	2,000
Machinery and tools	1,785	529	16,664	4,890
Natural resources and extractive industries (including mining, lumbering, quarrying, oil and gas, including refineries, etc.)	1,218	1,537	10,871	12,430
Railway operating	2,905	310	36,527	3,547
Railroad cars and locomotives	2,507	303	13,630	1,204
Shipbuilding	34	3	442	157
Miscellaneous and unclassified	192	478	2,451	3,284
Total	9,634	3,549	91,745	32,411

(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					
December					
Totals					

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

	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)	12,067	16,579	21,359	21,906
Over 4 1/2" outside diameter (including all sizes of casing)	17,326	21,342	23,924	20,332
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	8,089	8,221	7,324	7,594
Totals	37,482	46,142	52,607	49,832
<u>Steel pipe fittings:</u>				
Buttwelding fittings	126	155	120	116
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	574	618	533	552
Totals	700	773	653	668

(1) Included with other.

TABLE 12. Production and Shipments of Steel Pipes, Tubes and Fittings for Months Ended October

	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)	151,794	153,072	176,620	175,134
Over 4 1/2" outside diameter (including all sizes of casing)	281,532	286,359	403,798	395,062
Mechanical and pressure tubing, welded and seamless (including boiler and oil well tubing but excluding casing)	66,758	61,093	78,669	75,377
Totals	500,084	500,524	659,087	645,573
<u>Steel pipe fittings:</u>				
Buttwelding fittings	1,374	1,577	1,469	1,677
Nipples	(1)	(1)	(1)	(1)
Other, including flanges and flanged fittings	5,120	5,515	5,170	5,535
Totals	6,494	7,092	6,639	7,212

(1) Included with other.

TABLE 13. Production and Disposition of Shipments of Rolled Steel Products, October 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	17,711	20,561	9,512	11,049
For forging and piercing	22,216	22,485	-	22,485
Rails	19,626	15,840	-	15,840
Wire rods	34,816	34,440	-	34,440
Structural shapes:				
Heavy, including piling	40,630	38,743	-	38,743
Light	8,943	10,012	-	10,012
Concrete reinforcing bars	59,368	56,249	-	56,249
Other hot rolled bars	44,950	46,188	3,813	42,375
Tie plates and track material:				
Angle bars	401	434	-	434
Tie plates	4,066	1,737	-	1,737
Track spikes	352	208	-	208
Plates (including plates for pipes and tubes)	70,090	67,611	-	67,611
Hot rolled sheets	138,931	135,982	68,585	67,397
Hot rolled strip	145,656	134,884	118,416	16,468
Total hot rolled products ...	607,756	585,374	200,326	385,048
<u>Cold rolled and coated:</u>				
Cold finished bars	4,917	5,366	-	5,366
Cold reduced sheets and strip, tin mill black plate and tin plate	194,701	187,700	81,067	106,633
Galvanized sheets	45,051	43,252	-	43,252
Total cold rolled and coated ..	244,669	236,318	81,067	155,251
Total carbon steel	852,425	821,692	281,393	540,299
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	-	-	-	-
For forging and piercing	3,612	3,622	-	3,622
Alloy plates	1,273	762	-	762
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	16,281	16,227	195	16,032
Cold finished bars	699	679	-	679
Wire rods	448	429	-	429
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	3,789	3,568	-	3,568
Total alloy steel	26,102	25,287	195	25,092

TABLE 14. Production and Disposition of Shipments of Rolled Steel Products, Ten Months Ended
October 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	209,463	207,488	112,553	94,935
For forging and piercing	174,075	179,152	-	179,152
Rails	202,835	221,016	-	221,016
Wire rods	365,408	362,637	-	362,637
Structural shapes:				
Heavy, including piling	364,853	380,160	-	380,160
Light	88,473	92,584	-	92,584
Concrete reinforcing bars	437,471	461,930	-	461,930
Other hot rolled bars	406,947	404,671	45,659	359,012
Tie plates and track material:				
Angle bars	12,222	11,795	-	11,795
Tie plates	54,747	50,292	-	50,292
Track spikes	6,959	6,814	-	6,814
Plates (including plates for pipes and tubes)	719,373	709,954	-	709,954
Hot rolled sheets	1,459,141	1,447,427	781,733	665,694
Hot rolled strip	1,235,738	1,219,883	1,023,621	196,262
Total hot rolled products ...	5,737,705	5,755,803	1,963,566	3,792,237
<u>Cold rolled and coated:</u>				
Cold finished bars	49,781	50,017	-	50,017
Cold reduced sheets and strip, tin mill black plate and tin plate	1,952,110	1,943,496	831,921	1,111,575
Galvanized sheets	396,843	392,084	-	392,084
Total cold rolled and coated ..	2,398,734	2,385,597	831,921	1,553,676
Total carbon steel	8,136,439	8,141,400	2,795,487	5,345,913
<u>Alloy steel:</u>				
Semi-finished shapes:				
For re-rolling	226	226	226	-
For forging and piercing	41,446	39,269	-	39,269
Alloy plates	13,255	9,550	-	9,550
Other hot rolled bars including structurals, high speed steel and other alloy tool steel	139,820	136,512	1,466	135,046
Cold finished bars	6,697	6,691	-	6,691
Wire rods	4,217	3,984	-	3,984
Hot and cold rolled sheets and strip, silicon sheets and strip and stainless steel	32,830	32,415	-	32,415
Total alloy steel	238,491	228,647	1,692	226,955

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

SDI No.	October 1964		Ten months ended October 1964	
	Carbon	Alloy	Carbon	Alloy
	net tons of 2,000 pounds			
4 Wholesalers and warehouses	94,259	1,035	755,812	9,404
5 Export	63,776	3,009	602,109	32,091
6 Automotive and aircraft industries ..	35,642	10,777	311,531	87,111
7 Agricultural	20,787	546	144,384	3,109
8a Contractors - Building	19,437	-	187,976	51
b Construction - Public and utility ...	2,547	-	24,974	31
c Structural steel fabricators	79,258	301	728,960	1,887
9 Containers	28,069	30	368,215	361
10 Machinery and tools	16,756	3,173	162,206	26,935
11 Wire, wire products and fasteners ...	40,366	1,273	419,458	9,686
12 Natural resources and extractive industries	12,746	2,207	105,623	17,862
13 Appliances and utensils	15,509	207	178,932	1,757
14 Other metal stamping and pressing ..	37,792	360	378,251	3,897
16 Railway operating	5,384	19	186,618	440
17 Railroad cars and locomotives	8,387	47	66,904	559
18 Shipbuilding	10,053	154	78,755	6,581
19 Pipes and tubes	48,341	1,935	627,495	25,087
20 Miscellaneous	1,190	19	17,710	106
Net shipments	540,299	25,092	5,345,913	226,955

(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, October 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	735	551	648	10,652	4,168	13,535	9,409
5	Export	11,941	9,453	768	130	-	1	3,193
6	Automotive and air-craft industries	4,772	-	142	221	28	-	13,131
7	Agricultural	-	-	22	563	1,780	58	8,011
8a	Contractors - Building ...	-	-	395	426	400	10,796	545
b	Construction - Public and utility	-	-	1	267	32	2,112	-
c	Structural steel fabri- cators	20	101	665	22,616	2,228	19,190	2,672
9	Containers	-	-	10	-	-	-	12
10	Machinery and tools	580	523	225	957	141	2	2,354
11	Wire, wire products and fasteners	372	-	31,625	7	120	192	6,030
12	National resources and extractive industries ..	345	1,077	85	377	107	2,675	7,429
13	Appliances and utensils ..	-	-	9	-	3	-	100
14	Other metal stamping and pressing	-	87	85	14	699	7,262	3,202
16	Railway operating	3	3,964	-	13	100	4	445
17	Railroad cars and loco- motives	1,951	-	35	1,673	115	-	1,382
18	Shipbuilding	-	70	4	824	51	-	280
19	Pipes and tubes	16,437	-	-	-	-	-	3
20	Miscellaneous	-	14	150	3	40	422	209
Net shipments		37,156	15,840	34,869	38,743	10,012	56,249	58,407

- (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, October 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								
62	16,327	15,299	119	1,500	12,783	9,506	95,294	4
2,096	1,890	6,826	-	28	23,112	7,347	66,785	5
-	445	11,420	2,883	1,452	10,537	1,388	46,419	6
-	1,246	5,065	399	1,228	1,815	1,146	21,333	7
2	2,012	779	35	-	867	3,180	19,437	8a
-	-	-	-	-	135	-	2,547	b
-	15,680	3,095	611	54	2,369	10,258	79,559	c
-	31	151	37	1	27,711	146	28,099	9
-	5,280	3,538	222	717	4,756	634	19,929	10
6	57	1,551	54	484	963	178	41,639	11
91	1,876	424	1	101	305	60	14,953	12
-	1,633	3,654	147	197	8,363	1,610	15,716	13
-	1,077	5,933	1,381	259	11,376	6,777	38,152	14
110	267	135	-	2	161	199	5,403	16
11	1,611	1,053	-	5	106	492	8,434	17
1	8,812	161	-	1	3	-	10,207	18
-	10,129	8,313	10,579	-	4,509	306	50,276	19
-	-	-	-	16	330	25	1,209	20
2,379	68,373	67,397	16,468	6,045	110,201	43,252	565,391	

TABLE 17. Disposition of Shipments(1) of Rolled Steel Products, by Product, Ten Months Ended October 1964

October 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	2,399	7,070	80,306	30,886	129,258	74,051
5	Export	103,012	77,743	5,553	4,427	8,920	588	32,753
6	Automotive and air-craft industries	31,974	2	932	1,423	776	-	116,600
7	Agricultural	10	-	212	5,512	7,213	92	45,363
8a	Contractors - Building ...	34	109	3,817	7,274	4,244	108,313	4,541
b	Construction - Public and utility	7	113	4	3,584	234	17,684	356
c	Structural steel fabri- cators	297	783	6,829	438,163	25,488	110,465	22,955
9	Containers	-	-	115	-	-	-	773
10	Machinery and tools	5,064	1,213	3,129	6,855	2,485	3,751	29,914
11	Wire, wire products and fasteners	5,000	-	333,350	203	1,787	2,183	59,343
12	National resources and extractive industries ..	3,058	6,158	685	9,524	1,189	14,685	56,766
13	Appliances and utensils ..	-	-	69	288	73	4	1,257
14	Other metal stamping and pressing	595	587	2,614	1,875	6,969	72,400	32,760
16	Railway operating	24	129,048	1	763	459	43	4,821
17	Railroad cars and loco- motives	15,356	2,420	84	10,951	777	-	6,714
18	Shipbuilding	10	172	5	8,054	499	4	2,866
19	Pipes and tubes	147,243	2	-	54	-	-	119
20	Miscellaneous	53	267	2,082	902	605	2,460	2,106
Net shipments		313,356	221,016	366,621	380,160	92,584	461,930	494,058

- (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, Ten Months Ended October 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								
600	117,566	113,376	650	16,876	115,842	74,687	765,216	4
24,729	21,913	103,578	295	232	196,322	54,135	634,200	5
-	3,421	89,226	30,763	13,193	99,309	11,023	398,642	6
-	9,550	44,517	1,044	9,310	16,469	8,201	147,493	7
165	19,607	9,004	627	-	8,345	21,947	188,027	8a
62	2	1,682	-	-	1,277	-	25,005	b
11	133,120	49,582	2,790	394	31,360	108,588	730,847	c
-	71	2,070	750	11	362,798	1,988	368,576	9
5	48,949	31,903	1,910	7,013	41,392	5,558	189,141	10
70	168	10,731	584	5,050	8,066	2,609	429,144	11
1,251	19,187	4,006	72	752	4,817	1,335	123,485	12
-	18,508	39,130	1,568	836	102,919	16,037	180,689	13
-	9,584	59,191	12,799	2,767	100,211	79,796	382,148	14
41,479	6,480	2,306	-	62	313	1,259	187,058	16
489	21,196	7,229	-	23	1,016	1,208	67,463	17
4	71,558	1,340	-	40	312	472	85,336	18
-	217,624	94,244	142,410	3	47,761	3,122	652,582	19
36	1,000	2,579	-	146	5,461	119	17,816	20
68,901	719,504	665,694	196,262	56,708	1,143,990	392,084	5,572,868	

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