mon propertion in canada.

oming is the memorial to the Figure Minister, the subject of iron production in Canada presented

Well A See S. L. Tilley, K.C.M.G., etc., Monuter Tuesday —

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1 Tue undersigned members of the House of Coms. b.g respectfully to address you on the subject of coduction in Canada, and the means to be and for establishing this industry on a large scale on a permanent basis, as an important element in bulling up of the futite atrength and greatand property of the Dominion. While recognizthe great teneut which the National Policy of the and thereforest has even already conferred upon country, and the still greater mass of good results ebit is distinct to bring about in time to come, we percetheless, deeply impressed with the conviction kits work of beneficial, patriotic legislation, now so It is gun, requires to be carried still further, and that et of nore is jet necessary to complete it. In natutures of fron Canada has afready made good rest and under the new policy is progressing more Mis than ever belore. But in the production of the al itself, from the ore, and of wrought fron from pig al, we have as yet made only small beginnings m the experience gained in these small beginnings lesson chally may be drawn, that something imtant it yet lacking, to wit-the extension of the Naat Policy coas to bring within its vivitying influence production as well as the manufacture of iron. And are hopeful enough to believe that from the Govent which has so signally benefitted the country by establishment of this new policy, and particularly yourself, as the Minister who from official position chieffe to do with such matters, the proper measures a view to this end may reasonably be expected.

me ides of the sanguitude and importance of the trades to manufacturing countries may be had from following bautes : -

named in the year 1871 Tons.	Value	
at Bertain 6,000,664	\$78,885,316 34,000,000	,
num 418,356	6,867,124 210,000	ľ
te same of coal in 1877 :-		
ted States 34 324 A71	75,009,000 [ľ
nem wes 611	1 544,005	ľ

1878 the production of pig iron in Great Britain 6,381,051 tons; and in 1879 5,995 337 tons. The rage of the last ten years is about elz million tons. may compare Canada with Belgium, which has about milions population to our four millions. The ers above show how, with all our vast natural arces and extent of territory, we are behind the little giom of Belgium in the production of iron.

stal imports into Canada of tron and manufactures no during to years-1870-71 to 1879-80 '-

 ' .		•••• 8	11.201
			20,30
	****	•••••	10 5 73
•			13,783
 	*****	· • • • · · ·	1,000
 • ••			7.0
• •	•		2 7/10
	· · • · · ·		10717
			14,000

this large amount, of ten years importation was made

\$13,704,154 5 808,121 580,787,188 ie, plates, ic , for reliways, frug and steel

\$70,460,847 shinery, bardware and from manufactures seastally \$54,965,864

\$195,495,166

is will be seen that for the last ton years the imports of , sieel and failway tron and steel averaged seven live dollars per annum, and of machinery, general rdware and other from manufactures, five and a balf lions more; or a total average of twelve and a half lions. The question may be considered, whether have been prouced at home, instead of being imhome only the half of this consumption of seventy Bhans waerb.

What the above figures show may be put in another by thus. Our average import of fron manufactures erally, lacinding machinery, bardware, and such like, \$3,500,000 per annum. Our imports of the direct proets of the smelting furnace and the rolling mill in the ate of pig tron, bar from steel, railway tron, etc., erages \$7,000,000. What is wanted is something to

We may assume that it is not necessary here to cite ore the fact that there are in the Dominion wast treeare of iron ore in great variety, of superior quality only, and in quantity practically inexhaustible. It may taken for granted that yourself and colleagues are il except aware that in Canada we have tron enough its natural state, and that there is no question as to studence of the raw material of excellent quality d in unlimited supply within our borders. Nor is their by question either of the fact that some of our most exwire from deposite are in localities very convenient of xees and very favorably situated as regards facilities transportation. What does appear to be the practiquestion is, however, the topographical relation of besiton deposits to available supplies of fuel for smeltng furnaces and rolling mills. The different kinds of used in 1700 making are these:-bituminous coal ed coke, anthracite coal and wood charcoal. From stuminous coal and coke nearly the woole of Great citain's immense production of from le made, while tarcoal is used in various countries, and anthracite aly in the United States, to any extent worth menoning. Keet of Lake Superior our coal deposits, as far in large quantity, is obvious at a stance. known, are all in the Province of Neva Scotia; but As an exaggrated idea of the importance of authracis

tion as far as possible from our own resources entirely. main point to be determined is, how best to bring it showing the number of furnaces of each kind in blast siderable deposits of iron ore, lying near to the coal, and I spectively there the convenience of the two, each to the other, is not ia question. If, however, cont is to be used in connection with the fron deposits in other provinces then the question as to convenience and cost of transportation becomes a practical one. tin this point we would suggest figures are taken, the remarks of the fron Age are that coke, made at the gir's mouth in Nova Scotia, might engreture will be seen, ' says this excellent be cheaply delivered in Quebec and Unturlo, at or near and other main lines of railway there are always long furnaces is less this year than last. One of the most trains of emply cars going west, which might just as well as not carry coke to furnaces and rolling mills in transportation by water are not to be lust sight of. Coke would be a comparatively clean, light and easily bandled, freight, and its transportation westwards, in cars which would otherwise go empty, should not cost much With a view to the development of an important inter-provincial trade, which would be of large benefit, both to coal mining down by the sea and to iron production along the line of the St. Lawrence and the lakes, the Government might reasonably grant the best facilities and the lowest rates practicable on the Intercolonial Railway. As bitumious coal must be made into coke before being used in the smelting furnace, and as by taking coke from the pit's mouth an enormous saving in weight to be carried would be effected, the advantages of this plan are obvious enough. The supposed disadvantages of having to carry fuel long distances would in fact be reduced one-half or more, by the simple plan of carrylog the light, clean, a nd easily handled coke instead of the heavy natural coal. This relates to fuel for smelting furnaces only; soit or bituminous coal in its natural state being the fuel used in rolling mills, or in the making of bar iron.

With regard to the carrying of coal to the ore, and o ore to the coal, a very general and serious misapprehension prevalls. Because in Great Britain and the United States most of the old fron mines and furnaces which have long been worked are in the immediate vicinity of coal deposits, it is popularly supposed that all furnaces are supplied with both ore and coal native to the spot, and that without having the two lying together from-making cannot profitably be carried on. A few facts will show that while the bulk of the iron production of these conntree is from districts where coal and ore are found near together there is in both, but in the United States especially, a large production from furnaces which are supplied with coal or tron ore, or with both, brought from fron ore from Norway, Spalo, Northern Africa, and other \$1.50. This would give:places. The quantity of iron ore smelted in Great Britain in 1879 was 15,797,060 time, and of this 1,417,943 tons, or nearly 10 per cent, was imported from abroad United States is now about six hundred thousand tons annually, valued at about a million and a half of dollars. Ore from the Lake Seperior Iron tegion, on the American side, is carried several hundreds of miles to furnaces in Oblo and Pennsylvania; Canadlan ore, from the Oliawa district and the county of Hastings, is carried all the way to Orown Point and Troy, in Rastern New York, to the State of New Jersey, to Clevelend, to Pittsburg, and other points even further distant. It is just as easy easier, we should say, if the plan of first reducing the coal to coke be adopted.

In the Maritime Provinces whatever tron deposits there may be, have the coal so mear at hand that there the convenience of the supply is not at all in question. In Either soft coal in its natural state, or the coke made which a large proportion of Uanadian Iron is made, it as d from abroad, all this vast amount of money from-making country Canada is to be. But the prob ing out of the country to pay for it. But what a gain of fron-making in Canada is not wholly dependent for its the Dominion it would have been had we produced solution upon the supply of mineral coal from any tion of Canadian iron from charconlithe material for which exists in superfisous, overwhelming abundance in "this wooden country," It so happens that the principal Quebec and Ontario mines, as far as discovered, are situated close beside inexhaustible supplies of waste timber, which is positively of no commercial value whatever, except for the single purpose of making charcon for Iron furnaces. In connection with the increasing are a Canadian production of the latter as well as demand for charcoal iron, the importance of this circum stance can hardly be over estimated. Every year the use of iron is extending; every year it is being taken for force and statements, from recognised authorities, to new uses; and it is a remarkable fact that for these pew uses the prevailing demand is for iron of great strength and superior quality, capable of standing beavy and long continued strain. In shipbuilding, in Iron bridges, and for many special railway requirements, charcoal fron or supply :other from approaching it in quality is in increasing demand, and the demand is sure to keep increasing very largely in time to come. Still more remarkably increase ed would the demand for this kind of iron be, should the time come ween Governments, with a view to public The interest which railways and other transportation permanent constructions of all kinds, as well as in railway rolling stock, in all parts of the same where the use of inferior scon might put life and property in danger. That legislation will more and more take this direction in time to come is cert tip, and equally certain is it that an increasing demand for high-class from will be the consequence. In strength and resistance to strein and shock chargoal iron is before all other, and therefore its greatly extended use in time to come is a reoral certainty. The bearing of all this on Canada's unequalled facilities for the production of the best charcoal from

and the ore together. There are in Nova Scotia con- on the 1st of January, in the years 1880 and 1881, re-

•	1350.	1841,
Charcoal Authracite Bituminous	 105 128	160 102 151

In connection with the statement from which these authority, "that the number of charcoal and bleuminous the various localities where the principal deposits of furnaces in blast this year is greater than at any time fron ore, as far as known, are found. On the Intercolonial wittin six years, white the number of anthracite marked features of this report is the large number of charcoal furnaces reported in blast. This (the month of Quebec and Untario, though of course facilities for cheap January) is usually the season when these furnaces blow out for repairs, or in accordance with a belief that short blasts are better for charcoal futnaces. This year is an exception to the rule. The chief reason for this fe doubtless to be found in the heavy demand for cold-blast charcoal from arising from large orders for car wheels made from it

We come here to a point where there are two things to be put together. First, it is shown that the demand for charcoal iron is sure to be a rapidly increasing one Next, we have the fact that no country in the world can match Canada in natural facilities for the production of charcoal iron. No other iron mines on the fact of the globe have such a vast, inexhaustible background of charcoal timber supply behind them as ours. Attendy, in Sweden and Norway, the supply of charcoal timber is insufficient, and there being no other fuel for the purpose in the country, in order to save the industry from extinction, the Government has interfered to limit the annual make of iron. Other countries, Spain and Algeria, for lostance, have tron ore in great quantity, but neither umber nor any other fuel. The interence is clear that Canada needs but to take the right course to become the greatest charcoal tron producing country in the world. While this should be beld established, it leaves untouched the certainty of another fact, that we have within our own borders, and independent of any foreign supply whatever, the material for a production besides of iron from bituminous eval and coke, in quantity to be limited only by the demand for it.

The estimate is made by experie that a blast formace producing 100 gmes tons of tron per day would employ 50 men, at an average of \$1.35 per day wages. Tols would give :-

Wages buil perannum Yaise of product per annum .. Arolling mil. making 100 gross tons for day would long distances. Great Britain imports large quantities of employ from 800 to 600 men, at an average per day of

Such estimates as the above may be extended to the And the import of from ore from foreign countries into the Various products of trong through successive stages of manufacture, showing an immense expansion of work and wages for the industrial classes, and the building up of the country's strength, both moral and material.

The high average of wages paid for labor, in connection with smelting furnaces and rolling mills, and the attraction which such employment would have in the way, both of tetaining our own population and bringing in more, is a consideration that may well engage the attention of our statesmen. In actual results, no other to carry the coal to the ore as the ore to the coal; may immigration policy whatever can equal that of providing the powerful attraction of ready work and good wages, to bring in new arrivals, and to retain those who are already here. Urrate the work and the wages, and to the place where these are, people will flock of themselves, if no disagreeable circumstances Quebec and Ontario, however, the cost of bringing coal | torbid. Even very high wages might not suffice to draw or coke, as we suggest, from Nova Sootia will always English, Irish and Sootch emigrants or emigrants from be an important element in the problem of iron-making, anywhere in Kerope, north of the Alps, to anywhere in America south of the Potomac, and to keep them there. greater part of this seventy millions worth might from it, must be teel for furnaces and rolling-mills, with But in Canada, if only plenty of work at fair wages be secured them, emigrants from anywhere is Northern or at once. Not only as a means of increasing population, but also of developing a back-bode of material strength source. There might and should be a very large product for the Dominios, the importance of making iron for ourselves, in our own country, and from home materials, cannot be overrated. Not alone the labour directly employed in iron-production, but the employment which this industry creates for various interests outside, should be considered. Take for Instance one item, the gain to railways and other agencies of transportation alone. Before the Committee of Ways and Means at Washing-U.a., last year, evidence was given respecting the outlay made at home by one single industry, that of the production of Bessemer steel, in connection with which the following figures were cited .-

safety, shall insist upon the use of the test iron only in lines have in iron-making at home is no small matter, Making Iron abroad orestes business for foreign rallways; making it at home creates business for our own railways. Above we see the stem of eight million dollars paid in one year to American railways and vessels by the Bessemer steel works; were there no such works in America the greater part of this sum would have gone to Ruropean railways instead.

In the year 1870 the American Congress imposed on Bessemer steel rails a duty of 11 cents per pound, or \$28 per gross ton. That year the American production was only 30,357 tons, and the home price \$106.75 currency, o. abut \$94 gold per ton. In 1880, ten years after, 917, 192 numbers, to \$1,892,000,000. The load of debt which k known, are all in the Province of Neva Scotia; but As an exaggnrated idea of the importance of anthracits tons were produced in the country, and the average out people are carrying is thus unwards of three thouse their than comparatively small area there are inex- as an iron making feel appears to prevail with some home price was about \$50 per ton. By the duty a large sand one hundred millions of dollars."

baustible supplies, of Litumizous coal only. Authracite scople, it may be well to note the fact that in the American production, which otherwise would not have we might bring from Eastern Pennsylvania, but in our Valled States the proportion of authracite turnaces is existed at all, has been created through this American view the effort should be made to develop tron produce decreasing, while the proportion of bituminous coal and production being added to the English production the charcial turnaces is on the increase. The New York frees of steel rails has been reduced one half. In this Bituminous coal we have in quantity sufficient; but a fron . Ige, a good authority, gives the following figures. | case protection has had the effect of making the article. not ccarce and dear, as some contend, but abondant and cheap. It would be strange indeed if doubling the capacity of manufacture were to raise the price. The Bessomer seed works of the United States bave now an aggregate producing capacity tolly equal to that of the Hoglish works, and this addition to producing capacity has been who'ly created by the duty.

The rise of the Bessemer steel andustry in the United States, and its present magnitude and importance, are shown by the following figures -

Production of Restourer steel ingute during pine years

						Net tons.
1972						120,103
1.15			••	•		70 (2)
(04)	••		• •		•	191,533
14/6	• •	4	•	•	• •	
1475						375,517
1หวีย						625,993
1472						54,0500
1,774	•		•		•	32 23
1.79					• •	W22 67.1
					•	7427,714
1900						1 20 313
T. toductio		L De	memet:	sicol T	aile, es	we betrod
1. toductio	8 0	Be	nemet	stegi t	aile, ra	me period Net tone.
	B Q	I Be	nemet	ste el T	aile, ea	Net tons.
1972		l Be	nemet.	steel t	aile, fa	91.075
1972 1×73		ı Be	······································	stcol t	#116, #4'	91.073 120.0 4
1972 1473 1476		I Be		******	#11e, ##'	94.075 120.0 4 14.943
1972 1473 1474 2475		I Be		steel t	2:16, FA	94,075 120,0 4 144,943 290,561
1972 1473 1476		1 Be		steel t	±:16, #4	94,075 129,0 4 144,943 290,543 412,469
1972 1473 1474 2475		I Be		steel *	#:le, ##	94,075 120,0 4 144,943 290,561
1972 1473 1474 2475		l Be	nemet	steel t	*:le, **	94,075 129,0 4 144,943 290,543 412,469
1972 1473 1474 2475		I Be	section :	steel t	#116, ##	91,075 120,0 4 141,943 297,561 412,469 432,160

The Weekly Relletin, which is published at Philadelphia by the American from and Steel Association, states as a certainty that, large as the Bessemer steel production of 1880 was, it will be greatly exceeded in 1881. It is our firm belief that the way to cheap from, by the

creation of a new Canadian supply, in addition to the existing British and American supply. Ifes through such a measure of protection as will suffice to bring this new Canadian supply into existence. And from laquiries made we believe, further, that such a measure of protecuon, sufficient to create this new Canedian production of iron, would be found in the imposition of duties on the following basis, namely :- \$3 60 per ton on pig fron, with a proportionate increase on bar fron and manufactures of tron. But, while asking for this increase of duties, we do not by any means admit that there would be any permanent rise in prices to consumers in consequence. Fortified by the lessons of experience, many times repeated, we hold it o risin that a new or largely increased Canadian production in the various lines of iron-making and iron manufacture would soon bring about the result of more abundant supply and lower prices than before. But without a safe and sufficient basis of provention to rest upon, it is idle to expect that capitalists will sink large amounts of money permanently in such costly fixtures as blast formances and rolling mills. We have poken of some small begranings alreedy made in Canada, but these are only experiments as yet-experiments that may not be very long costinued, unless from making be placed on the same satisfactory footing as must branches of manufacturing industry aiready are in Canada. The collapse of these new enterprises would be a most undesirable result and both at home and abroad would by are greatly the prestige of Canada's new National Policy, now in the way of being made conspicuously successful before the world The present Government has definitively adopted and boldly acted upon the general principle of building up home industries in the mass by means of protection, with, as we believe, the hearty support and approval of the Catadian people. And what we now ask is that the same principle be extended to the Iron making as well as to the from magufacturing and other industries. We bold that the logic of our country's position requires that we take this other step forward in the path of industrial legislation, lacking which the National Policy still remains incomplete. The present daty of \$2 per ton on pig iron merely adds so much to what the consumer has to pay for it, while its falls short of being enough to benefit him by the creation of a new Canadian production of the article, in addition to the supply from present sources. After much consideration of the subject, we come to this conclusion, that what will best suit Canada's circumstances is the imposition of the proposed increase Central Europe find themselves at home and contented of the duty on pig from, with other changes to correthe Government that, were the changes made which we suggest, capital for the enterprise of tros making in Canada on a large scale would be ortheoming at once, and that very soon the success of the new step forward would be established by results. Hoping that the Goverament may see the way clear to such legislation as is above ladicated.

We remain, Your most obdit, servis. JAMES DONFILLY, Chalrman

Edward Haycock, Becretary.

March 1st, 1881.

Signed besides by nearly forty members of the House of Commons.

Tag New York Mercantile Journal furnishes the following interesting atatement respecting the public debts of the United States:-" The special agent of the Census Bureau has prepared a statement of the indebtedness of all the cities of the United States which have over 7,500 inhabitants. The bonded debt of three hundred cities foots up \$664,000,000. This is an aver. age of a little more than 2,000,000 for each, but a very large proportion of the aggregate aum is owed by a few large cities, beyonty-five New England cities own \$62.18 for each inhabitant, and the average for seventytwo cities of the Middle States is \$76.51, for thirtyeight cities in the South \$55.86, and for one hundred and AfteenWestern cities \$32.28 for each resident, while the average for all is \$58.53, \$664,064,000 of municipal indebtedness be added the county debts, which are estimated at \$200,000,000, the indebted sees of town and school districts \$100,000,000, and the State debts \$250,000,000, we have a total horden o \$1,214,000,000, in addition to the national date. — not amounted on the let matant, in round