## November 6, 1891.

## THE CANADIAN MANUFACTURER.

Grain drifts       *       4,021       1         Forks       590         Harrows       *       590         Harrows       *       713         Harvesters       *       7,574       2         Hoes       *       370       2         Knives, hay       *       207         Mowing machines       *       8,781       3,         Plows       *       22,812       7,         Rakes       *       674       4         Scythes       *       6,731       3,         Spade s and shovels and blanks       10,317       4,       4,         All other n.e.s       *       71,674       25,         Bedsteads and iron furniture       +       17,426       6,         Cast iron vessels, stove plates, etc       *       124,551       38,         Cut tacks, brads, etc.       *       13,677       30,         Fire engines7       *       13,677       30,         Fire engines7       *       13,586       4,         Iron hardware, builders', etc.       *       445,521       155,         Hardware, house furnishings, n.e.s       *       196,829       5	
Grain drills.       *       4,021       1         Forks       *       390         Harvesters       *       743         Harvesters       *       743         Harvesters       *       7774         Hoes       *       370         Knives, hay       *       207         Mowing machines       *       8,781         Plows       *       22,812         Rakes       *       674         Scythes       *       6731         Spad's and shovels and blanks       *       10,317         All other n.es       *       71,674       25,         Bedsteads and iron furniture       +       17,426       6,         Cast iron vessels, stove plates, etc       *       124,551       38,         Cut tacks, brads, etc       *       13,677       39,         Fire engines       7       *       13,677       39,         Fire engines       *       13,386       4,         Locomotives       -17       *       13,686       4,         Iron hardware, builders', etc       *       445,521       155,4         Hardware, house furnishings, n.e.s       * <td< td=""><td>307 30</td></td<>	307 30
Forks       590         Harrows       743         Harvesters       7,574       2,         Hoes       370       370         Knives, hay       207         Mowing machines       8,781       3,         Plows       8,781       3,         Plows       8,781       3,         Spade s and shovels and blanks       10,317       4,         All other n.es       71,674       25,         Bedsteads and iron furniture       17,426       6,         Cast iron vessels, stove plates, etc       124,551       38,         Cut tacks, brads, etc       4,441       1,         Locomotives       17,       131,677       39,         Fire engines       7       33,553       10,         Forks, cast iron       4445,521       155,3         Hardware, house furnishings, n.e.s       196,829       59,         Locks       52,674       2,674       2,674         Steam engines, portable       2,674       2,674       34         Franing mills, portable       2,708       4,50       34,50         Threshers       10,062       3,5       34       34,50         Sewing machines and machinery </td <td></td>	
Harrows       *       743         Harvesters       *       7,574       2,         Hoes       *       370       *       370         Knives, hay       *       207       *       370         Mowing machines       *       927       *       370         Mowing machines       *       207       *       *       370         Mowing machines       *       22,812       *       7       *         Spad. s and shovels and blanks       *       10,317       4       4       *       124,551       38,       *       *       14,41       1       1       *       *       *       14,41       1       1       *       *       *       13,566       4,441       1       1       *       *       14,551       38,       *       *       16,677       39,       *       *       16,677       39,       *       *       16,923       59, <td>,407 35</td>	,407 35
Harvesters       *       7,574       2,         Hoes       *       370       370         Mowing machines       *       207         Mowing machines       *       207         Mowing machines       *       207         Mowing machines       *       207         Mowing machines       *       22,812       7,         Rakes       *       6731       3,         Spad: s and shovels and blanks       *       10,317       4,         All other n.e.s       *       71,674       25,         Bedsteads and iron furniture       +       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       131,677       39,         Fire engines       -7       *       13,586       4,         Engines and boilers n.e.s       *       33,553       10,         Forks, cast iron       *       324       17,         Hardware, house furnishings, n.e.s       *       196,829       59,         Locks.       *       2,674       5       5         Fanning mills, portable       *       2,708       5 </td <td>230 40</td>	230 40
Hoes       *       370         Knives, hay       *       207         Mowing machines       8,781       3,         Plows       *       22,812       7,         Rakes       *       674       3         Scythes       *       6,731       3,         Spad: s and shovels and blanks       *       10,317       4,         All other n.e.s       *       71,674       25,         Bedsteads and iron furniture       +       17,426       6,         Cast iron vessels, stove plates, etc       *       124,551       38,         Cut tacks, brads, etc       *       4,441       1,         Locomotives -17       *       13,586       4,         Engines and builers n.e.s       *       33,553       10,         Forks, cast iron       +       324       155,21       155,21         Iron hardware, builders', etc       *       445,521       155,44         Hardware, house furnishings, n.e.s       *       196,829       59,42         Locks       *       2,674       52       55,54         Saw and planing mills, portable       *       2,708       54         Chreshers       *	260 05
Knives, hay.       *       207         Mowing machines.       *       8,781       3,         Plows.       *       22,812       7,         Rakes.       *       6,731       3,         Spade s and shovels and blanks.       *       10,317       4,         All other n.e.s.       *       71,674       25,         Bedsteads and iron furniture.       +       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       131,677       39,         Fire engines	650 90
Mowing machines.       *       8,781       3,         Plows.       *       22,812       7,         Rakes.       *       674       7,         Scythes.       *       67,31       3,         Spad. s and shovels and blanks.       *       10,317       4,         All other n.e.s.       *       71,674       25,         Bedsteads and iron furniture.       +       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       131,677       39,         Fire engines.       *       33,553       10,         Forks, cast iron       +       324       441       1,         Iron hardware, builders', etc.       *       196,829       59,         Locks.       *       2,674       *       55,         Fanning mills, portable.       *       2,664       9,       \$         Seam and planing mills, portable.       *       2,708       6         Chreshers.       *       10,062       3,5         Saw and planing mills, portable.       *       2,708       6         Chreshers.       *       10,062       3,	175 65
Plows.       *       22,812       7         Rakes.       *       674       574         Scythes.       *       6,731       3,         Spad. s and shovels and blanks.       *       10,317       4,         All other n.e.s.       *       71,674       25,         Bedsteads and iron furniture       *       71,674       25,         Bedsteads and iron furniture       *       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       4,441       1,         Locomotives -17.       *       13,677       39,         Fire engines.       *       33,553       10,         Forks, cast iron       *       33,553       10,         Forks, cast iron       *       33,553       10,         Forks, cast iron       *       324       155,9         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       2,674       5       5         Fanning mills, portable.       *       2,708       5         Saw and planing mills, portable.       *       2,708       6 <t< td=""><td>74 57</td></t<>	74 57
Rakes       *       674         Scythes       *       6,731         Spad: s and shovels and blanks       *       10,317       4,         All other n.e.s       *       10,317       4,         All other n.e.s       *       71,674       25,         Bedsteads and iron furniture       +       17,426       6,         Cast iron vessels, stove plates, etc       *       124,551       38,         Cut tacks, brads, etc.       *       4,441       1,         Locomotives -17       *       13,656       4,         Engines and builers n.e.s       *       33,553       10,         Forks, cast iron       +       324       1         Iron hardware, builders', etc       *       445,521       155,         Hardware, house furnishings, n.e.s       *       196,829       59,         Locks       *       2,674       5       5         Steam engines, portable       *       2,674       5         Saw and planing mills, portable       *       2,708       5         Parts of machines and machinery       *       10,062       3,5         Sewing machines       *       104,510       34	072 60
Scythes.       *       6,731       3,         Spade's and shovels and blanks.       *       10,317       4,         All other n.es.       *       71,674       25,         Bedsteads and iron furniture.       +       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       124,551       38,         Locomotives -17.       *       131,677       39,         Fire engines.       7       :       33,553       10,         Forks, cast iron       +       324       1         Iron hardware, builders', etc.       *       196,829       59,         Locks.       *       2.674       2         Fanning mills, portable.       *       2.674       2         Steam engines, portable.       *       2.664       9;         Saw and planing mills, portable.       *       2.664       9;         Saw and planing mills, portable.       *       10,062       3;         Saw and planing mills, portable.       *       10,062       3;         Saw and planing mills, portable.       *       10,062       3;         Saw and planing mills, portable. <td>984 23</td>	984 23
Spade's and shovels and blanks*       10,317       4,         All other n.e.s*       71,674       25,         Bedsteads and iron furniture+       17,426       6,         Cast iron vessels, stove plates, etc*       124,551       38,         Cut tacks, brads, etc*       124,551       38,         Cut tacks, brads, etc*       131,677       39,         Fire engines*       133,586       4,         Engines and boilers n.e.s.       33,553       10,         Forks, cast iron       +       324         Hron hardware, house furnishings, n.e.s.       *       196,829       59,         Locks       *       2,674       5         Fanning mills, portable*       2,674       5         Steam engines, portable*       17,150       6,0         Parts of machines and machinery*       10,062       3,5         Sewing machines	373 65
All other n.es.       *       71,674       25,         Bedsteads and iron furniture.       +       17,426       6,         Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       131,677       39,         Fire engines       *       131,677       39,         Fire engines       *       133,586       4,         Engines and boilers n.e.s.       *       33,553       10,         Forks, cast iron       *       324       1         Iron hardware, builders', etc.       *       445,521       155,9         Locks.       *       26,654       9,9         Locks.       *       26,654       9,5         Saw and planing mills, portable       *       27,08       2         Cheshers.       *       10,062       3,5         Sewing machines and machinery       *       10,062       3,5	480 45
Bedsteads and iron furniture.       +       17,426       6,         Cast iron vessels, stove plates, etc.       +       124,551       38,         Cut tacks, brads, etc.       *       4,441       1,         Locomotives -17.       *       13,677       30,         Fire engines.       *       13,656       4,         Engines and builers n.e.s.       *       33,553       10,         Forks, cast iron       +       324       324         Iron hardware, builders', etc.       *       445,521       155,         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       2,674       52         Steam engines, portable.       *       2,674       52         Saw and planing mills, portable.       *       2,708       54         Parts of machines and machinery       *       10,062       3,5         Sewing machines.       *       10,062       3,5	379 51
Cast iron vessels, stove plates, etc.       *       124,551       38,         Cut tacks, brads, etc.       *       4,441       1,         Locomotives -17.       *       131,677       39,         Fire engines -7       *       13,586       4,         Engines and boilers n.e.s.       *       33,553       10,         Forks, cast iron       *       324       324         Hon hardware, builders', etc.       *       445,521       155,         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       2,674       2         Fanning mills, portable.       *       2,674       9,         Steam engines, portable.       *       2,708       6         Threshers       *       10,062       3,         Sewing machines and machinery       *       104,510       34	081 46
Cut tacks, brads, etc.       *       4,441       1,         Locomotives -17.       *       131,677       39,         Fire engines.       *       13,586       4,         Engines and b-illers n.e.s.       *       33,553       10,         Forks, cast iron       +       324       324         Iron hardware, builders', etc.       *       445,521       155,         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       2.674       59,         Fanning mills, portable.       *       2.664       9,         Steam engines, portable.       *       2.6654       9,         Saw and planing mills, portable.       *       17,150       6,0         Parts of machines and machinery       *       10,062       3,5         Sewing machines.       *       104,510       34	108 15
Locomotives -17	190 02
Fire engines       -7       *       13,586       4,         Engines and builers n.e.s       *       33,553       10,         Forks, cast iron       +       324       10,         Iron hardware, builders', etc.       +       324       155,         Hardware, house furnishings, n.e.s       +       196,829       59,         Locks       *       61,923       21,6         Fanning mills, portable       *       2,674       52,         Steam engines, portable       *       26,654       9,         Saw and planing mills, portable       *       2,708       52,708         Chreshers       *       10,062       3,         Sewing machines and machinery       *       10,062       3,	345 24
Engines and boilers n.e.s.       *       33,553       10,         Forks, cast iron       +       324       324         Iron hardware, builders', etc.       +       445,521       155,         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       61,923       21,         Fanning mills, portable.       *       2,674       25,         Steam engines, portable.       *       2,6654       9,         Saw and planing mills, portable.       *       2,708       56,         Parts of machines and machinery.       *       10,062       3,5         Sewing machines.       *       104,510       34	756 10
Forks, cast iron       +       324         Iron hardware, builders', etc.       *       445,521         Hardware, house furnishings, n.e.s.       *       196,829         John hardware, builders', etc.       *       196,829         John hardware, bouse furnishings, n.e.s.       *       196,829         John hardware, bouse furnishings, n.e.s.       *       196,829         Fanning mills, portable.       *       2,674         Steam engines, portable.       *       2,674         Steam and planing mills, portable.       *       2,708         Threshers       *       17,150       6,         Parts of machines and machinery.       *       10,062       3,         Sewing machines       *       104,510       34	755 10
Hon hardware, builders', etc.       *       445,521       155,         Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks.       *       61,923       21,         Fanning mills, portable.       *       26,654       9,         Steam engines, portable.       *       26,654       9,         Steam and planing mills, portable.       *       27,08       6         Parts of machines and machinery.       *       10,062       3,         Sewing machines.       *       104,510       34	065 90
Hardware, house furnishings, n.e.s.       *       196,829       59,         Locks       *       61,923       21,6         Fanning mills, portable*       2,674       21,6         Steam engines, portable*       26,654       9,         Saw and planing mills, portable*       2,708       20,654         Parts of machines and machinery*       10,062       3,5         Sewing machines*       104,510       34	32 40
Locks	
Taning mills, portable	065 27
Steam engines, portable	572 35
Saw and planing mills, portable         *         2,708         5           Threshers         *         17,150         6,           Parts of machines and machinery         *         10,062         3,           Sewing machines         *         104,510         34	35 90
Parts of machines and machinery         17,150         6,0           Parts of machines,         10,062         3,5           Sewing machines,         104,510         34	320 40
Sewing machines and machinery* 10,062 3,5	947 80
Sewing machines* 104.510 34 5	02 48
04,	521 89
Typewriters* 26,645 7,6	
	99 24
	35 90
	19 65   56 25
	76 35
	55 49
	60 20
	56 80
	49 20
stamped ware	83 51
	80 28
	24 25
	70 55
	38 90
	16 67
<b>Exes</b> , hatchets and hammers $12,710$ <b>4</b> ,2	36 40
	79 52
	15 90
	96 21
Ties and rasps * 80,392 28,30	
	25 20
Hother manufactures of iron or steel, n.e.s. * 1,003,523 301,14	44 50   '
Total	
	61 69 '

Imports of manufactures of iron-duty free-weights given :-

Articles.	Weizht, pounds.	Value.
Anchors+	660,352	\$17,33
Tubular rivet iron+	6,384	560
Umbrella wire+	21,164,528	320,849
wrecked iron scrap*	35,056	16
oreel file blanks	388,640	16,580
onip's knees, beams, plates, angles, etc +	3,805,424	71,80
ar wheel tires	1,812,496	49,394
snipbuilding materials*	258,944	2,312
steel rails +	199,575,264	2,204,085
Success for manufacture of skates *	201,376	5,219
steel saw plates	842,800	65,899
Sieel for mower and reaper knives +	595,504	21,970
Duckthorn steel string (all from Belgium)	44,800	876
Tools for lock makers +	1,535,520	25,465
our et steel, clock aprings etc +	386,400	13,962
	166,208	5,393
the class and ico aroonare +	19,152	696
	384,272	1,212
	29,975,008	908,565
The for mattresses, wire cloth planes.	,,0,0000	000,000
	1,731,669	88,298
Wire rigging for ships	849,184	28,819
Total	264,438,981	<b>\$3,849,4</b> 53

Imports of manufactures of iron-duty free-weights not given :-

	ARTICLES,	Value.
	ARTICLES. Fish hookst Steel bowls for cream separators	\$9.310
	Steel bowls for cream separators	2,905
	Iron and steel for construction of ships	2.312
1	Mining machinery*	9,950
1	Mining machinery	8,700
	Total	\$33,177

The asterisks (\*) indicate that the larger portion of the article was imported from the United States ; the dagger (+) that the larger portion came from Great Britain.

The aggregate weight of all the dutiable articles of iron and steel, where the weights are given, is 469 590,019 pounds, valued at \$5,118,158; and the value of dutiable articles, where the weights are not given, is \$5,448,590, which latter value is \$330,432 greater than the former; but, for the purpose of approximating to the weight of these articles, we will suppose that it is about the same as the recorded weight. This, then, would show that the weight of all dutiable articles of iron and steel imported into Canada in 1890 aggregated 469,590 tons, valued at \$10,566,748, the duties paid upon which were \$2,913,-886. The aggregate of such merchandise imported free of duty was 264,438,981 pounds, or 132,220 tons, valued at \$3,882,630; the grand total weight of imports, dutiable and free, being 601,810 tons, valued at \$14,449,378.

These imports of manufactures of iron amounted in value to 12.8 per cent. of the value of all merchandise imported into the Dominion.

According to the Statistical Year Book, the domestic production of pig iron in 1890 amounted to 25,921 tons, which, with the importation of 87,613 tons, indicates that the domestic consumption of the article that year amounted to 113,534 tons. It is not probable that any of this iron was puddled, or used for any other purpose than the manufacture of castings. The only wrought iron manufactured in Canada is made from wrought scrap, a very large proportion of which is brought from Great Britain. Of course domestic, railroad and machineshop, etc., scrap is also available for this purpose. Wrought iron, made of scrap, is not as desirable for many purposes as that made from puddled pig iron; and there as on why no puddled iron is made is because the duty upon pig is \$4 per ton. while upon wroughtscrap it isonly \$2 per ton. Reference to the tables shows that millions of pounds of the simpler forms of wrought iron consumed in Canada are imported : and there is no satisfactory reason why this iron should not be made here. It undoubtedly would be, or a very large portion of it, if the raw material from which it is made-pig iron-was produced at home in sufficiently large quantities. But it is not probable that this will ever be under our existing tariff. The bonus upon the domestic production of pig iron has been higher than it is now, and there is a promise that it will be again increased, but, as an incentive to the large production of iron, the bonusing policy has proved a dismal failure. On the other hand, the duty upon imported pig iron has never been high enough to induce the investment of sufficient capital through which our wants might be satisfied : and the duties which are now derived from that source are for revenue only. We think we are within the mark in saying that, of the 600,000 tons of manufactures of iron annually imported into Canada, at least one half - 300,-000 tons-would be manufactured here if our pig iron industry