the load to three tons on each wheel, as recommended by Mr. F. A), he cannot then advantageously apply the power from the cylinders to the axies, and he looses probably more than one half of the stalishic power of his engine. The power of an engine to draw a load is directly as the adhesion upon the rails which stale is derived solely from the weight upon the driving wheels, and as this tractive power is only one sixth of the whole adhesion it is extremely important to utilize as much as possibly of the wight of the engine. This can only be of an in the case under review, by increasing the lim ted weight of three tons on each wheel to nearly twice that weight and when this is done then rails of at least 60 bs per yard must be used which of course, abolishes the light and cheap testure allogether. As regards passenger trains on a narrow gauge railway there are two serious objections. Let The oscillation must necessarily be very great, unless the body of the car is greatly reduced in width as compared with those in use on the existing railways of the country, or the speed must be reduced at least one-half.

In any case the width of the body of the car must be reduced at the very least by two. If not three feet, and the result must be to alter altogether the preent internal arrangements of our passonger cars. Instead of a row of double seats along each side, ...th will be necessary to return to the style of cars in use on the street railway, where the passengers at along the sides, face to face, leaving a passage for the conductor between them, in will be necessary to return to the style of cars in use on the street railway, where the passengers at along the sides, face to face, leaving a passage for the conductor between them, in will be necessary to return to the style of cars in use on the street railway, where the passengers at along the sides, face to face, leaving a passage for the conductor and the remaining the narrow gauge railway may be adopted. But if there is every reason to expect a moderatory large a

NATIONAL BOARD OF FIRE INSURANCE.

THE New Yo & Bulletin says.—The meeting of the National Board of Fire Invarance Comparies, now in session in this city, is especially worthy of public attention. All classes in the community have an interest in the welfare and stability of fire insurance companies. The risks and the principles upon which they are conducted are far from being matters of limit ad importance. The standing and position of business men and the interests of property holders generally, are intimately connected with the stability of fire insurance. If the premiums do not cover all the risks or if the business of the anderwriters is not conducted upon sound economical principles, the community must sooner o. later experience the most injurious consequences. National Board of Fire Insurance Comparies

upon sound economical principles, the community must sooner o. later experience the most injurious consequences.

In this view the meeting of the National Board of Fire Underwriters should certainly be attended with beneficial results. It ought to lead to collection of facts from a varely of sources that may tend to remove any defects in the present system of insurance the heavy losses of the past few years have seriously safected even the most prosperous companies, and the time has arrived for determining whether a reform or at least a modification of existing rules may not be expedient. Upon this subject the report presented year leads at modification of existing rules may not be expedient. Upon this subject the report presented yeared y throws considerable light. It seems to authorize the conclusion that the risks of insurance are not covered by an adequate capital, or, in other words, that the prosent rates of promium are not sufficient. The report states:—

"The insured may find matter for grave consideration in the fact that, in 1839 3 19.809 620 at risk, had, for its protection, capital and assets to the amount of \$22,223 3 4, while at the end of 1863, £, 133,593,596 had \$-5,596.857. The per contage of protection in 1859 was 45,590 cent, in 1856 2.35 per cent, in 1859 vas 45,590 cent, in 1856 2.35 per cent, and at the oud of 1968 202 per cent, showing a decrease of 163 per cent of protection to the insured—an alarming decrease when applied to a sum nearly as large as our national debt."

The report states that the risks involved in the man-

The report states that the risks involved in the man-The report states that the risks involved in the management of fire insurance companies warrant the expectation of an inverse of twelve per cent upon the capt at But an average of five years establishes the fact that tess than nine and a half per cent per year has been realized. Over one per cent of the profishas been realized. Over one per cent of the profishas been absorbed by losses during that period. It is add that the introduction of ooal in the manufacture of fine salt has been attended with highly bone final results. It is suid that the introduction of ooal in the manufacture of fine salt has been attended with highly bone final results. It is suid that the introduction of ooal in the manufacture of fine salt has been attended with highly bone final results. It is suid that the introduction of ooal in the manufacture of fine salt has been attended with highly bone final results. It is suid that the introduction of ooal in the manufacture of fine salt has been attended with highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results. It is superior quality of the salt, white highly bone final results.

1865 was three times larger than in 1859, the losses of the former year were fire times larger. The per coatego of losses on not premiums have increased from 42 57 per cent. In 1859 to 71.38 per cont. In 1865 fin 1863 the aggregate losses of the various companies amounted to thirty-four per cent of the net cash the minum. It is probable that this disproportion has been increased during the last two years.

This statement of the position of the companies in relation to the leavy losses which they have recently suffered should, and probably will, lead to well concerted uniform action for the eviablishment of a close equilibrium between the amounts of premiums and actual risks involved. The recent heavy fire in this case is developed the merchants that may probably cause a modification of the new rates. We thout presuming to decide whether this increase is or is not justified by the peculiar circumstances attending fire us derwriting in thicago, it is at least desirable that a larger inquiry should be instituted covering all the action of the last would be equally safe to underwriters and to the public at large. He at large

THE GODERICH BRINE SPRINGS.

From the London Grocer.

THE transfacture of sait will probably become an important branch of industry in the Province of Ontario and give employment to a considerable amount of capital Amid the excitement incident to the open ing up of gold, silver, and iron mines, we are apt to overlook bring springs, which are likely to contribute in a large degree to our national wealth. The Onon-

overlook brine springs, which are likely to contribute to a large degree to our national wealth. The Oncadaga formation, which is the source of the New York brine springs, is sall-bearing in the vicinity of troderich. Evanescent newspaper paragraphs now and again, make us aware, that sail is produced there and weils are being sunk, but of the operations we know little or nothing. Of the region referred to, Dr. Sterry linnt apeaks in his report (1866) as follows:—"Heccent investigations have shown that this formation, in its course north-wetward, in Canada, become greatly sugmented in thickness and includes beds of sait which bids fair to surpass in importance those of Central New York."

One well is mentioned in which, at a depth of 964 foct from the surface rock, sait was m with in isyens of a foot or more in thickness; the whole volume of the sait-bearing mass being if feet, of which the sait itself formed about 30 feet. The sait brought up is described as beautifully white orystatine grains. The brine is remarkable for its purity, the solid matters from its evaporation containing over 39 per cent of sait, while, those from Unendaga, New York, have on an average, over three per cent of impurities. It results from this that the sait manufactured from tederich brine must be of exceptional purity. No draining or other mode of purification is needed with the brine to from make it sait surpassing in purity the finest hither to known. Some of the Onondaga brines are almost awarded with gypsum, of which they had insert year, and the propert of the State of New York. In 1825 the Station has nearly 25 per cent. In 1825 the Station has nearly 25 per cent. In 1825 the Station parts of the state of New York. In 1825 the Station of parts of the state of New York. In 1825 the Station of parts of the state of New York. In 1825 the Station of parts of the state of New York. In 1825 the Station of parts of the state of New York. In 1825 the Station of parts of the state of New York. In 1825 the Station of the manufactured at

can currency :-

FOR FINE SALT.

Fuel, boiling, and repairs. 19 cents per bush state duty, I cent per bush	95 c 05 10 25 06 45
Total cost per bbl	85
FOR SOLAR SALT	
For manufacturing at 8 conts For State cuty For taxes and office expenses. For rent of vats, &c., at 12; per cent For barrel	40 c. 05 10 55 45

COMMERCE OF NEW YORK.

From the N. Y. Journal of Commerce.)

A T the close of last year we noted the falling off in the receipts of toreign goods, and anticipated a continued reduction through the season upon which we have entered. Some days age we gave a comparison of the imports of dry goods for the month of January, and renewed he reference to this declining trade. A correspondent, who examined our statistics, addressed us in a humorous vein, asserting that one of our contemporaries was disposed to attribute this falling off in the imports to the wicked tarifi," while others blamed the radical politicians for it, and saked our opinion of the cause of this clange. We have aiready stated explicitly that a protective tariff is not itself a rostraint upon the arrival of foreign goods krequent and vexatious changes in the tariff sporato to discourage imports, but a tariff may be wickedly" high and oppressive, while it operates to encourage the sale of foreign merchandise. Nor is the tailing off due altogether to political causes. The unrettled condition of affairs has undoubtedly depressed trade in overy department, and so far has induced a moderate demand for both foreign and domestic fabrics. The reason of this falling off in the imports may be found in the want (from whatever cause) of paying consumers for the products offered, thus making a poor return to the importer, and discouraging his enterprise. But this applies as well to the trade in domestic as in foreign goods. Indeed, the former is the direct complications, only injure traffic through a general disinclination to engage in any sort of business vonture while affairs are so nestitled.

All of our figures referring to the imports express only their foreign gold vance, freight and duty unpaid. The total for January, it will be interesting to note the changes in this trade, in successive years, and we therefore bring forward the comparative imports in each January, since 1850.

Foreign Imports at New York in January. T the close of last year we noted the falling off in too receipts of foreign goods, and anticipated a

Fo eign Imports at New York in January.

Year	Imports	of pecie.	Total imp'ts.
1860	•	\$ 433,892	\$12,365,438
1851		210.455	15,468,470
1852		104,706	11.014.097
1853		83,048	18,440,970
1854		289,365	19,607,819
1855		90,284	12 946,827
1856		61,861	15,578,064
1857		R93 600	19 006 733
1853		809,572	8 105.7 9
1820		71 308	19,447,962
1860		223.050	21,768,273
1861		7.263.229	26,827,411
1862	•	163,658	12 620,849
1863		101,906	15.739.576
1864		. 141,790	18,977,394
1865		62,268	10,620,117
1866		. 72 771	80,109,830
1887		126.719	20 979,087
1868		136.574	15.418,571
776			-0,210,011

The stock of goods in bond has not increased since January 1st, the withdrawals being a trifle in excess of the entries for warehousing. The following are the particulars for the last month as compared with the previous two years

Foreign Imports at New York for January.

	1864.	1867.	1863.
Entered for cons m.	\$18,656,728	\$11,046,858	\$ 7.855,830
Ent'd for wareh'sing	10.241.576	9.037 702	6.647.871
Free goods	1.223 757	714.810	778 296
Specie and outlion		123,719	136.574
	,		200,1.13

Total ent'd at port \$30,109,830 \$20,979,087 \$15,418,671 Withd'n from whee 7 424,336 9,330,484 6,781,625

We have now passed through seven months of the fiscal year, and as many of our readers keep their record in even date with the government returns, we present a table showing the total from July 1st-

Foreign Imports at New York for the Seven Months ending January 81st

ı	_	1866	1867	1868.
	Ent'd for cons m	\$108 K98 483	\$88 087 728	270 424 233
	Ent'd for wareh'g	66 171,603	62 894,178	63,833,519
ł	Free goods	6.625 683	6.682,782	5,816 786
i	Specie and bullion	. 1:144 229		

Total eut. at port ...\$172.840 197 184 189,240 181 490 753 Wd'n from wh'se... 46,821,908 59,627,012 54,019,789

Wd'n from wh'so... 46,821,906 59,627,912 54,019,789
The above shows that the stock of all kinds of merchandise now in bonded warehouse is about the same as it was at the close of last June. Before calling attention to the receipts for duties we wish to correct a popular acror which is continually repeated in paragraphs going the rounds of the press. Many persons take the total value of foreign imports landed at the ports upon which to estimate the customs; and thus they often make the most serious mistakes in the computation. The duties in this district are collected only upon the dutiable imports actually marketed here. The total cash thus paid here in seven months was only a traction less that ekty-two millions, upon a dutiable value of \$1.444 620, or an average of about about fifty per cent ad valorem upon the entire amount of merchandise ubject to duty. The following are the official returns:

Received for Customs at New York.

Received for Customs at New York. Six mouths

ending 1863 1867 1883 Jan 1at... \$65,077,823 87 \$60 531,571 83 \$54 731 201 44 In Jan...... 12,487,574 16 9,472 248 48 7,183 423 42

Tot. 7 months577,614,802 vs \$70,003,820 30 \$61,661,789.88 Our friend Peter Cooper, and his associates in the "Protective League," still keep up the fire against