### Analysis of certain Organic Substances.

	Carbon.	Hydrogen.	Ozygen.	Nitrogen	Total.
Sugar	42 225	6.600	51.175		100
Starch	44.250	6.674	49.076		100
Gum	42.682	6.874	50.944		100
Lignin	52.53	5.69	41.78	<b>—</b>	100
Tannin	52.590	3.825	43 585		100
Indigo	73.260	2 500	10.43	18.81	100
Camphor	73.38	10.67	14.61	⋅84	100
Caoutchouc	87.2	12.8		ł —	100
Albumen	52 883	7.540	23.872	15.706	100
Fibrin	53.36	7.021	19.685	19.984	100
Casein	59.781	7.429	11.409	21.381	100
Urea	18.9	9.7	<b>26</b> ·2	45.2	100
Gelatine	47.881	7.914	27.207	16.998	100
Picromel i	54.53	1.82	43.65	<b>!</b> — .	100
Hordein	44.2	6.4	47.6	1.8	100
Emelin	64.57	7.77	22.95	4.3	100
Veratrin	66.75	8.54	19.60	5.04	100
Qinchonin	77.81	7.37	5.93	8.89	100
Cuinin	75.76	7.52	8 61	8.11	100
Brucin	70.88	6.66	17.39	5.07	100
Strychnin	76.43	6.70	11.06	5.81	100
Narcotin	65 00	5.50	26.99	2.51	100
Morphin	72.340	6.366	16.299	4.995	100

#### Conducting Power of Metals.

The relative conducting power of forged iron, steel, and cast-iron, are 436, 397 and 359, taking silver, which is the best conductor, at 1,000.

# Atmospheric Pressure.

The body of an average sized man presents a surface of about 2,160 square inches, or 15 square feet, and consequently sustains at the sea level a total pressure of 34,400 lbs., or nearly fourteen tons and a half.

# Statistical Information.

### Gold and Silver.

In forty years, from 1790 to 1830, Mexico produced, according to the Mining Journal, about \$32,000,000 worth of gold, and \$699,000,000 of silver. Chili, \$13,000,000 of gold and \$91,000,000 of silver. Russia, \$18,000,000 of gold, and \$7,000,000 of silver. Buenos Ayres \$20,000,000 of gold, and \$136,000,000 of silver. Total 1,016 millions of dollars, or \$25,400,000 per annum. The London Engineer says silver was formerly found in such quantities in Spain, that, according to Pliny, Hannibal extracted a daily quantity equal in value to about \$1,500, from a mine worked by him near Carthagena. Cato delivered into the Trensury 2,500 lbs. of silver in bars, and 120,000 in money, besides 400 lbs. of gold, all of which he accumulated in Spain. Helvetius, who was once Governor of Andalusia, delivered 37,000 lbs. of silver coin, and 40,000 lbs. in bars.

More than 500,000 oz. of silver are annually obtained from British lead ores, by Pattinson's process; and during 1864 there was obtained from five mines in Merionethshire 2,336 tons of auriferous quartz, which, when crushed by the amal-

gamating process, produced 2,887 oz. of gold, the value of which was nearly \$50,000.

#### Export Trade from 1850 to. 1864-5.

		BRITISH COLONIES.	LONIES.		Othor	
Exports to	Gt. Britain.	In North America.	In West Indies.	U. States.*	Countries.	Totala.
1850	\$3,803,399	\$1,808,776	\$8,376	\$5,933,243	\$108,281	\$12,943,795
1861	6,021,401	1,037,519	8,912	4,917,429	164,144	13,810,604
1852	6,756,857	812,139	13,961	7,536,155	188,495	15,307,607
1853	11,465,408	1.380,466	:	10,725,455	229,974	23,801,303
1854	10,876,714	1,529,275	8,989	10,418,883	185,329	23,019,190
1855	6,738,441	1,023,447	8,749	20,002,291	420,538	28,188,461
1856	10,467,744	1,086,041	10,803	20,218,654	263,775	32,047,017
1857	11,102,045	875,239		14,762,641	266,699	27,006,624
1858	8.898,611	960,428		13,373,138	240,432	23,472,609
1859	7,976,758	840,475	7,025	15,586,917	355,806	24,766,981
1860	12,839,069	723,534	:	20,698,896	376,889	34,631,890
1861	18,907,105	1,030,939	12,382	16,283,374	380,395	36,614,295
1862	15,224,417	826,871	13,775	16,980,810	550,252	33,596,125
1863	17,463,718	932,196	67,642	22,534,074	841,002	31,831,532
¥1864	4,728,280	348,090	14,016	8,699,093	94,029	13,883,508
1864-5	14,726,008	1,065,067	41,313	26,812,923	835,850	42,481,151
* The expor	ts to the United	States include th	ie "Estimated	* The exports to the United States include the " Estimated amounts not refurned at inland ports."	irned at inland	ports."

Thus our Total Export Trade has trebled since 1850. Our exports to the States have quadrupled. These to other countries have, however, expanded most, being now eight times what they were fifteen years ago. Our exports to the British North American Colonies have remained about the same figure.—Trade Review.

#### Marine Disasters, U. S., 1865.

The New York Shipping List gives the following Statistics of the whole number of vessels belonging to the United States which have been lost during the last twelve months:

	No. Value.	No Value.
January	31\$690,000	July 22 \$500,000
February	26 302,000	August 35 1,092,000
March	29 625,000	Septem. 34 603,000
April	23 795,000	October 49 850,000
May	18 330.000	Novem. 771,500,000
June	18 650,000	December 80 1,800,000

445 9,737,000

## British Railway Locomotives.

At the close of 1863 the railways of Great Britain had 6,643 locom tives; at the close of 1846