

FOR THE NORTH-AMERICAN JOURNAL.

As the use of steam engines for various purposes is increasing in this country, the following memoranda of the price, consumption of coals, water, &c. may be acceptable to some readers. The minutes were given by an Irish engine-maker, and the prices are in the currency * of that country, and are about 20 per cent. less than those of Boulton & Watt. It would be a curious subject of inquiry, to ascertain the quantity of power in men added to the English nation by the use of steam engines, the power of sixteen men equivalent to one horse, is the common calculation. It would certainly be found to add millions.

Horses' power.	Price Irish cur.	Diameter Cylinder.		Height.		Stroke.		Diam. of fly-wheel.		Length of Boiler.		Weight of Boiler.	Water per hour.	Coals per hour.
		l.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	cwt.	gallon.	lb.
1	120	4	1-4	1	6			6		4		8	360	18
2	145	7	1-16					8		5		12	720	36
3	298	9	1-4	2	6			8	6	6		15	1080	54
4	370	10	1-4	3	6			9		6	6	18	1440	72
5	430	12		3	10	3	6	9	6	7		20	1800	90
6	490	13						10		7	6	24	2160	108
7	544	14						10	6	8		23	2520	126
8	603	15						11		8	6	32	2880	144
9	650	16						11	6	9		36	3240	162
10	700	17	3-4	4	5	4		12		10		40	3600	180
11	742	18	1-8							11		44	3960	198
12	781	19	1-8					12	6	12		48	4320	216
13	815	20								13		50	4780	234
14	852	20	3-4					13		14		56	5040	252
15	878	21	1-8	5		4	6					60	5400	270
16	923	22						13	6	15		66	5760	288
17	968	22	1-2							16		72	6120	302
18	994	23	3-8					14		17		76	6840	316
20	1065	24		5	7	5		14	6	18		80	7200	320
22	1136	24	3-4					15		19	6	86	7920	344
24	1205	26	1-8							22		92	8640	358
26	1270	27								24		98	9360	372
30	1390	30				5	6	16		26		104	10800	400
35	1540	33		6	8			16	6	2	boil	110	12600	414
40	1690	36		7		6		17		17			14400	428
45	1840	40		7	6			18		18			16200	442

* Irish currency is about 8 per cent. lower than sterling.