

figures, it must be borne in mind that the shift from belts and shafting to individual motors at each machine does not necessarily mean that an amount of power is used equivalent to the increased capacity: there is always a margin by which installed equipment exceeds the simultaneous load.

Of the total primary power installed in 1945, manufacturing establishments accounted for 87.7 p.c., while of the total electric motors operated by purchased power, manufacturing accounted for 82 p.c. and mining for 18 p.c.

The mining industry showed an almost uninterrupted increase in the amount of equipment operated by purchased power from 1934 to 1941; in 1937 a very sharp rise over the 1936 figure occurred; this would indicate a tendency of mining companies to rely more and more upon purchased power rather than to attempt to generate their own, a very natural tendency in northern Ontario and Quebec where water power is abundant and fuel scarce.

In manufacturing, a steady growth is indicated in total power equipment installed, total electric motors and in motors operated by purchased power.

24.—Power Equipment Installed in Manufacturing and Mining Industries, 1934-45, with Details by Provinces, 1945

Year and Province	Steam Engines and Turbines	Internal Combustion Engines	Hydraulic Turbines and Water Wheels	Electric Motors Operated by Purchased Power	Total Power Equipment Installed	Total Motor Capacity	Percentage Electric Power to Total Power
	h.p.	h.p.	h.p.	h.p.	h.p.	h.p.	h.p.
1934—Total	916,045	136,673	633,101	3,179,948	4,865,767	3,797,095	78.0
Manufacturing.....	779,949	87,147	597,687	2,779,913	4,244,696	3,330,413	78.5
Mining.....	136,096	49,526	35,414	400,035	621,071	466,682	75.1
1935—Total	913,871	141,827	667,694	3,311,853	5,035,245	3,898,945	77.4
Manufacturing.....	779,983	88,345	603,754	2,874,693	4,346,775	3,387,098	77.9
Mining.....	133,888	53,482	63,940	437,160	688,470	511,847	74.3
1936—Total	869,502	161,892	703,398	3,451,714	5,186,506	4,059,355	78.3
Manufacturing.....	743,184	92,480	648,489	2,977,714	4,461,867	3,506,215	78.6
Mining.....	126,318	69,412	54,909	474,000	724,639	553,140	76.3
1937—Total	979,157	183,980	693,132	3,707,493	5,563,762	4,410,974	79.3
Manufacturing.....	834,703	98,223	650,557	3,129,790	4,713,273	3,732,745	79.2
Mining.....	144,454	85,757	42,575	577,703	850,489	678,229	79.7
1938—Total	979,354	201,808	777,190	3,886,314	5,844,666	4,635,423	79.3
Manufacturing.....	830,897	111,645	723,377	3,303,804	4,969,723	3,963,545	79.8
Mining.....	148,457	90,163	53,813	582,510	874,943	671,878	76.8
1939—Total	971,766	218,429	793,882	4,078,415	6,062,492	4,883,670	80.6
Manufacturing.....	827,801	121,997	731,390	3,366,104	5,047,292	4,069,619	80.6
Mining.....	143,965	96,432	62,492	712,311	1,015,200	814,051	80.2
1940—Total	1,004,901	253,923	784,126	4,309,825	6,352,775	5,136,200	80.8
Manufacturing.....	848,596	152,240	727,051	3,563,048	5,290,935	4,287,817	81.0
Mining.....	156,305	101,683	57,075	746,777	1,061,840	848,383	79.9
1941—Total	1,073,808	287,383	823,859	4,778,068	6,963,118	5,624,681	80.8
Manufacturing.....	917,474	179,461	724,199	4,028,942	5,850,076	4,769,054	81.5
Mining.....	156,334	107,922	99,660	749,126	1,113,042	855,627	76.9
1942—Total	1,081,859	331,808	816,631	4,748,374	6,978,672	5,668,039	81.2
Manufacturing.....	927,509	224,358	741,751	4,076,277	5,969,895	4,877,194	81.7
Mining.....	154,350	107,450	74,880	672,097	1,008,777	790,845	78.4
1943—Total	1,134,786	364,265	790,043	5,115,214	7,404,308	5,981,280	80.8
Manufacturing.....	988,280	257,873	749,593	4,420,105	6,415,851	5,180,735	80.7
Mining.....	146,506	106,392	40,450	695,109	988,457	800,545	81.0
1944—Total	1,153,052	385,774	779,850	5,124,948	7,443,624	5,991,223	80.5
Manufacturing.....	1,013,615	288,312	729,216	4,437,296	6,468,439	5,217,013	80.7
Mining.....	139,437	97,462	50,634	687,652	975,185	774,210	79.4