it actually runs with this speed. The curves belong to the following wheels:

- 1. Victor Increased Capacity of 1900, built by the Platt
- Victor Increased Capacity of 1900, built by the Flast Language May American of 1904, test #1848, built by the Dayton Globe Iron Works Company. Smith of 1904, test #1848, built by the Dayton Globe Iron Works Company. Morgan Smith of 1904, test #1878, the Smith of 1904, test #1878, designed by F. Schmidte.

 Allia Chalmers Co. Type F of 1908, test#1778, designed by F. Schmidte.

 Go. 1909, test #1900, built by James Leffel & Samon of 1910, test #1970, test #1970.
- 6
- Smith of 1911, test #1984, built by the S. Morgan Smith Co., designed by J. H. Felthousen. I. P. Morris Type E of 1911, test #2026, designed by L. F. Mood. 8.
- L. F. Moody,

 J. Zowski. 21 of 1911, test #2090, built by the Alis
 Claimers Co., designed by S. J. Zowski.

 Claimers Co., designed by S. J. Zowski.

 Zowski #III of 1911, test #222, built by the Alis
 Claimers Co., designed by S. J. Zowski.

 Zowski. *Yo 1912, test #2208, built by the S. Morgan Smith Co., designed by S. J. Zowski.

The following table shows clearly how the power was steadily increased by the historically most important runners, when we assume 50 R. P. M. un-



ELECTRIFICATION OF RAILWAYS.

In connection with the consideration which the Can In connection with the consideration which the Can-dian Pacific Railway Company is giving to the electrifi-what American railways are doing in this respect. The day of electrification of seam roads is dawning. It has been stated that it costs about the same, mile for mile, to electrify as to build a new road, and the question is, there-electrify as to build a new road, and the question is, there-

fore, almost entirely one of the advisability of heavy in-The Pennsylvania Railway is contemplating electrify-ing its line between Pittsburg and New York, a distance of over 400 miles, which will be at least double-track, and which will cost approximately \$40,000 per single track

In the Western States the Great Northern Railway, and the Chicago, Milwaukee & Puget Sound Railway have planned the electrification of 530 and 440 miles, respecplanned the electrification of 339 and 440 miles, respec-tively, contracts having already been let for road-bed, power, etc. This revolutionary step is occasioned by the poor coal and water conditions with which steam locomotives have to contend in North Dakota, Montana and Idaho, and with hydro-electric power in abundance.

The Denver, Rio Grande & Western is electrifying one The Denver, Rio Grande & Western is electrifying one of its monation divisions, 11 willies in length. Some 73 miles of mountain electrification, for heavy coal haulage, and the state of t

United States, by steam railroad, are as follows: Miles of Single

Baltimore & Ohio.

The original electrification of the steam railroad. The pioneer user of heavy electric loco 7.4

New York, New Haven & Hartford.

Including 22 miles on the Hoosac tunnel roate of the Boston and Maine, the lines from New 1385 miles and 1693 miles); the Harten River branch, 141.4 miles; the line from Stanford to New Haven, now nearing completion, 270 miles, besides more than 50 miles of short lines, including the standard of the control of the co ing a very complete system about Hartford.

msylvania
Comprising 186.8 miles on the Long Island
Railroad; 98.4 miles on the Pennsylvania's approach into New York, and 150.3 miles between
Camden and Philadelphia.

Butte, Anaconda & Pacific ... An ore-carrying mountain line. 90.0 Southern Pacific ...

Suburban lines at Berkeley, Oakland and Ala-meda, calif., close to San Francisco Bay.

Erie In Central New York to the south of Roch ester.

Great Northern.

The electrification of the Great Northern Rail way's cascade tunnel, between Leavenworth and Skykomish, about 100 miles east of Seattle-(Canadian Engineer.)

ELECTRIFICATION OF THE SWEDISH RAILROADS

Electrification of the line of the Swedish State railroads from Kiruna to Riksgransen is nearing completion and the government is now planning the electrification of the large trunk lines from Stockholm to Malmo and from Stockholm to Gothenburg. The former line will receive energy from a plant to be built by the government near the town of Motala, and for the southern part energy will be purchased by the government from a large central station on the River Lagan. The Gothenburg line will be supplied chiefly from the government's plant at Trolhattan. Later the line from Gothenburg to Malmo will also be electrified. The cost of the lines at present under consideration will be nearly \$30,000,00. The transmission lines. transformer stations and locomotives will cost approximately \$20,000,000 and the new generating station will cost in the neighborhood of \$10,000,000.