There are at present two projects for Railroads to the Pacific before the public, in addition to the Union and Central Pacific, which has been completed, and is in operation from Omaha to Sacramento and San Francisco; which, with its numerous Eastern connections with the Atlantic sea board, affords a continuous Railway Line across the continent; and, despite the difficulties of enormous magnitude which were found in the way of its construction, and are found in the way of its running, it appears to be successful to a degree beyond the anticipations of its projectors.

of its projectors. The two other and to some extent rival projects, are (1) the "Northern Pacific Railroad," proposed to be built through U. States territory from Duluth, at the head of Lake Superior, to Puget Sound; and (2) the Pacific Railroad, to be built on British territory, by Companies under Dominion auspices, to connect the present Railway system of Canada with the Pacific Ocean, in the Province of British Columbia.

UNION AND CENTRAL PACIFIC (U. S. completed).

The Union and Central Pacific was constructed with extraordinary rapidity, in spite of the obstacles presented. The distance between Omaha and Sacramento is 1775 miles. The profile of this stretch shows that it passes over four main summits, namely, Sherman Summit on the Black Hills, 550 miles from Omaha, 8235 feet above the level of the sea; another on the Rocky Mountains, at Aspen Summit, 7463 feet above the sea; another at the Sierra Nevada, 105 miles from its Western terminus, 7062 feet above the sea; and from a point west of Cheyenne to Wasatch, a continuous length of 450 miles, every portion of the road is more than 6000 feet above the sea. Yet rails have been laid over these great altitudes and trains are successfully run over them. The road was begun in 1865 and completed

The road was begun in 1865 and completed in 1870. The following table shows its operations and progress year by year:-

autorio ciala proprovo pour og gour i				
	Miles	Gross	Operating	
	operated.	Earnings.	Expenses.	
1865	31 to 56	\$ 401,941 92	\$121,669 53	
1866	56 to 94	864,917 57	200,710 61	
1867	94 to 137	1,470,653 50	330,913 33	
1863	137 to 468	2,300,767 17	843,166 51	
1869	468 to 742	5,670,822 25	2,993,523 19	
1870	742 to 900	7,920,710 98	4,060,564 95	

Surplus of net earnings over in-

track was laid per day. And after the season closed, rock cuttings were made on the summits of the mountain profiles. On the Pacific coast 10,000 Chinese were employed at wages of oue dollar per day. Fifteen tunnels and rock mountain slde cuttings in the Sierra Nevada, presented the greatest difficulties on the whole line. Many miles of road had to be covered in with sloping roofs, made of the strongest timbers, for protection from avalanches from the mountains, which would sweep trains and everything else before them.

In addition to these formidable obstacles the American desert had to be crossed.

NORTHERN PACIFIC (U. S. projected and sections completed).

The most strenuous exertions are now being made to obtain funds for the Northern Pacific; and very sweeping statements respecting it are being very widely published. It has obtained from the Congress of the United States the largest land grant ever previously given to any railway in the world. And the firm of Jay, Cooke & Co., who are the financial agents of the Company that has undertaken to build it, are making almost incredible exertions in its behalf. This firm is well known in connection with the U.S. 7.30 Gold Loan, and the present Pacific scheme is called by the same name, the proposal being to raise on first mortgage bonds of the Northern Pacific Railway, at 7 3-10ths per cent., and payable at the end of thirty years, a sufficient sum to build the road.

years, a sufficient sum to build the road. In support of this scheme the most brilliant statements are made respecting the land grant of 50,000,000 acres with which the project is endowed, Glowing pamphlet: have made their appearance adorned with maps setting forth the unspeakable richness ' of the country through which the road will pass; and, therefore, the enormous value of the lands granted to the railway. It is also claimed that the route across the continent is much shorter by this line tha:

It is also claimed that the route across the continent is much shorter by this line that by the Union and Central Pacific, and that its proposed terminus in Puget's Sound is one of the best harbours in one of the fines countries in the world.

It is still further contended in its favouthat it will cross the Rocky Mountains at a much lower altitude than the Union and Central Pacific.

The following statement of distances of the Northern Pacific is taken from a report of Mr. Roberts, Civil Engineer, employed in its service, the starting point being from the head of Lake Superior :--

		Average
	height above	
	Miles.	the Sea.
To Dakota Valley	300	1200 feet.
Yellowstone River	300	2200 "
Along Yellowstone	400	2600 "
Flathead Valley	300	3500 **
Lewis or Snake Riv.	200	3000 **
Puget Sound	500	400 **
		1
to the Characteria de Marcol		

Lake Superior to Puget Sound via Portland.... 2000 [Direct Line...... 1775]

The highest ground stated by Mr. Roberts encountered between the Missouri and Lake Superior is at the mouth of the Yellowstone River, is 2,300 feet, and "the low summit of "the Rocky Mountains is but little over 5,000 "feet." This, is will be seen, is considerably lower than the summits over which the