TWENTIETH

ANNUAL REPORT

OF THE LUMBIONIE SOLD

Board of Directors

OF THE

8-11-4

Pennsylvania Railroad Co.

TO THE

STOCKHOLDERS,

FEBRUARY, 19, 1867.

PHILADELPHIA:

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1867.

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DIRECTORS

OF THE .

PENNSYLVANIA RAILROAD COMPANY,

FOR 1867-1868.

BY THE STOCKHOLDERS.

J. EDGAR THOMSON, SAMUEL T. BODINE,
JOSIAH BACON, JOSEPH B. MYERS,
WISTAR MORRIS, EDWARD C. KNIGHT,
WASHINGTON BUTCHER, JOHN M. KENNEDY,
ALEX. NIMICK, Pittsburgh, JOHN RICE.

BY THE CITY OF PHILADELPHIA.

LEWIS ELKIN, WILLIAM ANSPACH, G. MORRISON COATES.

BY THE BOARD.

THOMAS A. SCOTT, HERMAN J. LOMBAERT.

PRESIDENT,
J. EDGAR THOMSON.

VICE-PRESIDENTS,

THOMAS A. SCOTT, HERMAN J. LOMBAERT.

TREASURER,

THOMAS T. FIRTH.

SECRETARY,

EDMUND SMITH.

ANNUAL MEETING.

Philadelphia, February 19, 1867.

The Annual Meeting of Stockholders of the Pennsylvania Railroad Company was held at 10 o'clock, A. M., at the Board of Trade Rooms.

On motion of Mr. Solomon W. Roberts, the Hon. Morton McMichael, Mayor of the City, was called to the Chair, and Edmund Smith appointed Secretary.

The Secretary read the Annual Report of the Board of Directors for the year 1866.

Mr. H. N. Burroughs moved

· That the Report of the Board of Directors be and the same is hereby accepted by this meeting, and that it be referred to the incoming Board for publication.

Col. Page offered a resolution as a substitute, which was seconded, on behalf of the Board of Directors, by Theodore Cuyler, Esq. After some modification the resolution introduced by Col. Page was adopted, as follows:

Resolved, That the Report be referred to a special Committee of seven Stockholders for examination, and that the said Committee be further specially authorized and directed to examine into and report upon the expediency of issuing additional stock and

borrowing more money, and further to examine into and report upon the operation and working of the systems of discrimination, of free passes, and of private freight expresses, and to what extent the officers and employees are interested in the last, and the effect these have had and still have upon the earnings of the Road and the rights and interests of the Stockholders, with power to send for persons and papers, and report the result of their investigations to an adjourned meeting of the Stockholders, to be held on the last Tuesday in April next, at such hour and place as notice may be given by public advertisement—the Board of Directors in the meanwhile to cause the Annual Report to be printed for the information of the Stockholders.

On motion of Mr. A. J. Derbyshire, it was

Resolved, That the Committee of seven Stockholders, as provided for in the resolution just adopted, be appointed by the Chairman.

The meeting then adjourned to meet on Tuesday, the 30th day of April, 1867.

MORTON McMICHAEL,

Chairman.

EDMUND SMTH, Secretary.

TWENTIETH ANNUAL REPORT.

Office of the Zenusylvania Zailroad Company,

Philadelphia, February 19, 1867.

To the Stockholders of the

Pennsylvania Railroad Company.

The following statements will exhibit the financial condition of the Company on the 1st of January last, and the earnings and expenses of your Railroads and Canals during 1866.

Dr.

	DOLLARS.	OTS.
To Capital Stock	20,000,000	00
" First Mortgage 6 per cent. Bonds	4,980,000	00
" Second " " "	4,904,840	00
" Lien of State upon the public works sold to this Company, bearing	l ''	l
5 per cent	6,600,000	00
" Short Bonds, or Debentures, 6 per cent	1,554,015	75
" Mortgages and Ground Rents, 6 per cent	170,184	82
" Bills and Accounts payable, including dividends due to Stockholders,		
uppaid	8.062,144	45
" Extra Dividend Fund	1,110,000	00
" Contingent Fund	1,000,000	اققا
" Harrisburg and Lancaster Railroad Company's Stock	1,182,550	00
" Harrisburg and Lancaster Railroad Company's Bonds	700,000	00
* Belence	870,415	02
		-
	\$46,134,149	54

CR.

	DOLLARS.	CTS.
By Balance standing on the Books of Company for the Construction of the		
Railroad between Harrisburg and Pittsburgh, including Branches to		ı
Indiana and Hollidaysburg, (in all 276 miles,) also for Cost of Sta-		l
tions, Warehouses, Shops and Shop Machinery, on the whole road		
from Philadelphia to Pittsburgh\$13,590,000 60		1
" Cost of Harrisburg and Lancaster Railroad, when de-		1
livered to this Company, including Branch to Columbia,		l
(in all 55 miles)		
" Balance standing on the Books of the Company, for the		
purchase of the Philadelphia and Columbia Railroad		
and the Pennsylvania Canals 6,600,000 00		l
" Balance standing to debit of Equipment of Road, consist-		ı
ing of 452 Locomotives, 240 Passenger Cars, 103 Bag-		1
gage, Mail and Express Cars, 6,958 Freight Cars, and		1
923 Road Cars		
" Cost of Real Estate of Company and Telegraph Line 3,421,480 91		l
" Extensions of Pennsylvania Railroad to the South Bank		1
of the Monongahela and to the Delaware River, includ-		ı
ing Wharves and Grain Elevator 2,121,157 77		i
	30,896,408	61
" 14,538 Shares Harrisburg and Lancaster Railroad Stock	726,650	00
" Western Pennsylvania Railroad Stock and Bonds	183,450	00
" Cost of First and Second Mortgage Bonds, Pittsburgh and Steubenville	,	1
Railroad Company	738,205	20
" Steubenville and Indiana Railroad First Mortgage Bonds, owned by	,	
Company	1,262,651	52
" Philadelphia and Eric Convertible 7 per cent. Bonds, (the remainder		
of the \$3,000,000 loan being in Sinking Fund)	439,000	00
" Amount of other Bonds and Stocks of Municipal and Railroad Corpo-	200,000	"
rations	1,570 342	74
" Cost of Bonds and Stocks in Sinking Fund	1,996,367	68
" Amount of Fuel and Materials on hand for repairs to Locomotives,	2,000,001	~
Cars and Maintenance of Way on Pennsylvania Railroad	1,378,404	10
" Amount advanced to pay for Fuel and Materials on hand for repairs	1,010,102	1 -0
to Locomotives, Cars and Maintenance of Way for Philadelphia and		l .
Erie Railroad	449,220	89
" Amount advanced to operate Philadelphia and Eric Railroad	725,180	02
" Amount of Bills and Accounts Receivable and Amount Due from	(20,100	کا ا
	4 1 10 000	93
other Railroads	4,148,063	69
"Balance in hands of Treasurer, including \$420,000 U. S. 5-20's	577,018	
Determine in merior of transmial, infiniting \$250,000 C. P. 9-50.	1,043,241	16
	\$46.134,149	54
	240.194'14A	1 04

The Shareholders will perceive, by comparing the above items with their cost, as shown in previous reports, that in addition to the payment of dividends upon your *original* investment, equal to 46 per cent. above legal interest, the cost of your Road from Philadelphia to Columbia has been reduced \$900,000, and from Harrisburg to Pittsburgh, \$6,426,855, from the surplus profits of the Company; and the Equipment of the Line, which has cost \$10,603,559 55, is now represented at \$3,371,214 93.

The Sinking Fund, which cost \$1,996,367 68, it is believed is ample, with its accruing income, to take up at maturity the debt of the Harrisburg and Lancaster Railroad Company, the Second Mortgage Bonds of this Company, and still leave in it all the stocks that it is important that this Company should retain for the security of its traffic. This conservative policy has been pursued in view of the adventitious character of the traffic of the line during the past five years, and for the purpose of giving to the Company a financial strength which will render the continuance of its dividends certain, independent of the action or policy of rival lines.

The Company has been placed in this strong position while it has, at the same time, to a larger extent than any other Corporation of the kind, promoted the development of the interior of the Commonwealth by aiding the completion and extension of other Railroads where private capital would not incur the risks of such investments.

The Pennsylvania Railroad was commenced under the sanguine hope that it could be completed and equipped without incurring a debt. The efforts of the Company in this direction, in view of the great abuse that had attended the financial operations of the earlier corporations of this State, were eminently wise and worthy of an earnest effort to carry them into effect. But after some years of persistent labor it became evident that the enterprise was too great for the local capital of this City without submitting to a delay in its completion, which neither the commercial prosperity of Philadelphia, nor the interest of the shareholders of the Company would justify. This policy was therefore abandoned for one which limited the mortgage indebtedness of the Company to its capital stock.

At the commencement of its work, the views of the Company extended only to the construction of a railway between Harrisburg and Pittsburgh. But in operating such a line in connection with the uncertain and frequently adverse management of the Philadelphia and Columbia Railroad, under the State authorities, it became evident that it must fail to meet the just expectations of its projectors, unless an independent connection could be made with its commercial depot, or a lease or purchase of the existing lines effected. After many abortive efforts, this object was accomplished by a lease of the Harrisburg and Lancaster Railroad, and the purchase of the State improvements at a high price, but upon a satisfactory credit. The great point, however, of securing harmonious action throughout the line, from Philadelphia to Pittsburgh, was accomplished. which at once imparted new life and vigor to the enterprise. and insured its prosperity.

It was early foreseen that a trunk line, intended to accommodate the traffic between the East and West, would fail in its object if wholly dependent upon the uncertain navigation of the Ohio River as a feeder. The earlier commencement of the other trunk lines had already diverted the routes of the railroads in progress from the commercial centres of the West towards the East, to their works. To overcome this disadvantage, it became essential that other lines connecting your road with these trade centres of the West should be commenced, and to effect this, direct and efficient aid by this Company towards their construction was necessary. So fully impressed were the Shareholders of this Company at the time, of the importance of this movement, that, in voting such aid, they exceeded the views of the Directors. The three principal lines selected for

such aid were one to Cincinnati, a second to the centre of Ohio, at Columbus, and a third towards Chicago. The connection with Cincinnati via Marietta was adopted, and failed from the inadequate means provided to construct a line over what proved to be an unexpectedly rugged country. The line to Chicago was only saved as an investment, after the failure of the credit of that Company, by much labor and large additional outlays by this Company to secure its completion. These efforts were crowned with entire success, and the enterprise, both financially and as a feeder of your main line, has met our most sanguine expectations.

The line to Columbus,—which also afforded an equally good connection with Cincinnati as that via Marietta, though leaving a large district of country tributary to another railway—after long delays, growing mainly out of a failure to procure adequate legislation in Virginia, has recently been brought into efficient use, and promises satisfactory results. The Pennsylvania Railroad Company will own as a preferred shareholder more than half of the capital stock of this line.

The eastern end of this line, known as the Pittsburgh and Steubenville Railroad, extending from Pittsburgh to the Virginia State line, was commenced under the patronage of the City of Pittsburgh and Allegheny County, but owing to the absence of any legal right to extend its road to the Steubenville and Indiana Railroad across Virginia, it failed to obtain a credit that would justify any responsible individuals in undertaking its construction. A further increase of its capital stock was therefore impracticable.

A contract was entered into by the Pittsburgh and Steubenville Railroad Company, with parties of insufficient capital, for the completion of this line, which, as might have been expected, only resulted in still further embarrassing the condition of the Company by a disproportionate increase of its indebtedness, compared with the work done. After further efforts to secure other parties to build the road, a contract was entered into with the Western Transportation Company for that object—a corporation in which this Company became the chief shareholder—and through its instrumentality a concession was obtained from Western Virginia, permitting the construction of a railroad across that State. From this period the work was pushed with as much vigor as the condition of the labor market would permit, notwithstanding the extraordinary advance that had taken place in every element that entered into the cost of constructing railways. Under this contract, the work has been opened for use for more than a year. ' In view of the expenditures that had been made upon the line, and those directed to be made under the commutation act, it was, at the time, deemed best to advance the means required to complete this line; but, in consequence of the unexpectedly large amount required, it would have probably been better to have permitted the road to have been sold, and thus divested it of the complications surrounding it and which now render such a sale essential to ascertain the relation of its creditors. There is much work still to be done, to complete this road in a manner that will enable it to meet the demands of its traffic.

The Marietta line, which had enlisted the warmest support from the shareholders and the merchants of this city, of either of the lines mentioned, became so hopelessly involved that the funds advanced by this Company, for the construction of that part of the road between Marietta and Wheeling, were taken without our assent, to meet its debts incurred upon the line west of that point. In consequence of this misapplication of the means furnished by this Company, and the immense sums that would have been absorbed in carrying out the original plan, it was not deemed prudent to make any attempt to save the amount invested in the enterprise, under your instructions. This amount was accordingly charged to profit and loss, and its stock no longer appears among your assets.

The interest of the Company in the Chicago line has nearly all been disposed of, at a profit to this Company fully equal to its loss upon the Marietta line. But for the timely aid afforded by this Company, it would have proved, as an investment, nearly as unproductive.

The completion of the Columbus route having, in consequence of want of legal authority in Virginia, been thrown into a period of inflated prices, its cost has so far exceeded our anticipations that it will require a long time for it to repay this Company in direct returns for the outlays incurred. For these expenditures it has received various securities, some of which have been disposed of, and on the remainder there will probably be no loss except a few years of interest, for which the indirect advantages gained by the Company must be its compensation.

The shareholders will perceive, from this resume of the operations of the Company, the extent of the means required, and the labor and responsibility incurred to save the original investments made under your instructions, to build up lines to connect yours with the trade centres of the West—expenditures that were necessary to the success of your own work, but which a few years earlier commencement of it would have rendered unnecessary, as the tendency of the Western lines would probably then have been towards Pittsburgh.

These expenditures have frequently been referred to by share-holders as unwise, without reflecting that they were the result of their own action, and that the Officers of the Company are really the parties to complain of the immense unrequited labor and responsibility they have had to assume to save the object the Company had in view in making these investments, and in providing the means necessary to effect them. That they have required outlays, to secure the original objects, far exceeding any just expectation at the time they were entered into, is quite true; but this has arisen from the inadequate stock basis furnished by their shareholders for the completion of these works and the subsequent increased cost of building railways. The result, however, we think will justify the policy of this Company.

These extraordinary outlays were commenced while the traffic of this line was comparatively small, and burthened by a heavy impost duty levied by the State, and assessed upon no other competing line, greatly diminishing its ability to meet these necessary expenditures to ensure the prosperity of the State—and from which burthen it was only released upon condition that the Company would apply the unpaid instalment towards the construction of the Mifflin and Centre County, Bedford, Bald Eagle Valley, Tyrone and Clearfield, Ebensburg and Cresson, Western Pennsylvania, and the Pittsburgh and Steubenville Railroads—all improvements within the Commonwealth. The effect of this mandate was the same as that which followed the appropriations made by the stockholders to Western lines, already stated, entailing upon this Company either

the loss of the whole investment directed to be made, or advances of the additional amounts required to complete these works. The Board saw no other alternative but to meet this difficulty by the adoption of a liberal and active policy, and thus bring all of these lines into productive use as speedily as practicable. The outlays necessary to secure this object, from the causes already referred to, have been very large, but the results have proved much more satisfactory than if the original expenditures had been suffered to remain unproductive, as would have been the case if they had simply fulfilled the requirements of the law. The further extension of some of these lines will still be necessary, to enable them to become productive and meet the wants of the districts they were built to accommodate.

We have thus presented to you the extent, and the causes for the unusually heavy expenditures made by this Company on account of its tributaries. Their magnitude has made it necessary, not only to protect the investments made in them, but also to secure the control of other lines important to their success. This policy has eventuated in a system which includes the Philadelphia and Erie and Northern Central Railroads, by which the Company's cars find their way over continuous and unbroken lines, under one control, from Columbus, Erie and Pittsburgh to Philadelphia and Baltimore.

To meet the expenditures, but partially enumerated, without financial sacrifices, and still preserve the relation between the share capital and debts of the Company, as already indicated as the settled policy of this Company, has been attended with some difficulties. But the rule is one that should not be exceeded by any prudent railway corporation.

To preserve this relation, and place your financial system upon a basis that may be easily understood, while it is at the same time sufficiently comprehensive for the future wants of the traffic seeking your line—which will doubtless increase with the growth and prosperity of the country—the Directors have procured an amendment to the Charter which permits the requisite increase of the share capital of the Company and prohibits the issue of mortgage bonds exceeding its capital stock.

The increase of the capital of the Company, under this Act, may be effected in one of three ways. First, by a sale of the shares. Second, by a subscription to the stock of the Company, in which each shareholder will have the right to participate in proportion to his interest; and Third, by stock dividends.

The first plan is deemed inexpedient. The second, which is the best, has been objected to by the City of Philadelphia, in consequence of her inability to participate in the advantage of such subscription, owing to a constitutional prohibition of the further exercise of such powers by municipal corporations. The third, therefore, is the only one to meet existing circumstances, and with a view to carry this plan into effect, the Directors have passed the resolution annexed to this report, which is submitted for your approval. It is believed that in addition to cash dividends, a dividend of 5 per cent. in stock may be declared annually under any ordinary condition of the country, and still leave an ample surplus to the credit of profit and loss to preserve the property of the Company at its present high standard of efficiency and value.

The responsibilities assumed by this Company, through the endorsement of the bonds of other railroad corporations, are confined to the first mortgages of the Philadelphia and Erie

Railroad Company, amounting to five millions of dollars, the Western Pennsylvania Railroad Company for eight hundred thousand dollars, and the Connecting Railway Company for one million of dollars. In the two last named companies, the Pennsylvania Railroad Company is also the owner of nearly all their share capital, and upon the first it has a lease for 999 years.

The Connecting Railway has been leased to the Philadelphia and Trenton and Camden and Amboy Railroad Companies for legal interest upon its whole cost, which will be twice the amount of coupons falling due upon the issue of its bonds so guaranteed.

The net revenues of the Western Pennsylvania Railroad Company, since its extension to Pittsburgh, have been sufficient to meet its interest, and these must continue to increase, while the thirty per cent due to the Philadelphia and Eric Railroad Company under its lease, and first applicable to the payment of the coupons upon their bonds, is already largely in excess of the amount required for this object. It will therefore be seen, that the revenues of these Companies are amply sufficient to meet the interest upon the bonds so endorsed, and that they cannot become a charge upon the net revenues of this Company.

The bonds of these railroad companies, with the exception of \$1,200,000 of those of the Philadelphia and Erie Railroad Company, were endorsed after their purchase by this Company, and were so endorsed to secure a better market price for this Company when sold by it.

The propriety of selling the bonds of lines aided by this Company, either with or without its endorsement, is questionable, inasmuch as better results can be obtained by the use of the direct credit of the Company. Hitherto, however, there has been no alternative, as the powers of the Company have been too circumscribed to act upon such a policy.

The earnings and expenses of the Pennsylvania Railroad, and the roads worked by it, except the Philadelphia and Erie Railroad, were for 1866 as follows:

		EARN	INGS.				1
From	Passengers, 1st class,	.	-	\$3	,245,8	800 06	
"	Emigrants,	· •	-	_	139,7	721 25	3,385,521 31
"	United States Troops,	-	-	-	-	•	560,945 44
"	" " Mails,	-	-	-	-	•	82,730 00
"	Express matter, -	-	-	-	-	-	374,369 22
"	General freights, -	-	-	-	-	-	11,709,293 59
"	Miscellaneous sources,	-	-	-	-	-	471,023 28
	•	,					\$16,583,882 84

EXPENSES.

CONDUCTING TRANSPORTATION.

For ordinary expenditures, \$3,492,008 80	
" erection of passenger and freight stations	
and extension of existing buildings, 154,743 42	\$ 3,646,752 22
MOTIVE POWER.	
For ordinary repairs and renewals, - \$2,919,122 47	
" erection of machine shops and engine	
houses, 121,724 59	
" additional tools and shop machinery,	
(\$27,515 56 of which was for the Phi-	
ladelphia and Erie Railroad shops,) 85,225 77	
" additional locomotives purchased during	
1866, 671,758 80	
,	3,797,831 63
Amount carried forward,	\$ 7,444,583 85

Amount brought forward, -	-	-	- \$7,444,583 85
MAINTENANCE OF	CARS.		
For ordinary repairs and renewals, &c. &c.,	\$1.07	0,912 7	77
" additional freight cars,	-	3,766	
" passenger cars,	19	6,363 (06
			- 1,961,042 2 0
MAINTENANCE OF	ROAD		
MAINIENANCE OF	LOAD	•	
For ordinary repairs of railway and rene			
tures,	• •	5,465	
" additional second track and sidings,	25	0,965	
" General Expenses			- 3,096,430 67
General Expenses,	- :	- 	- 288,852 55
Total expenditures connected with the bu Pennsylvania Railroad Company, includ			
the facilities for transportation on its own	•		
of the railroads it operates, &c., -	ı roau	and th	\$12,790,909 27
or the ramoads it operates, we.,	•	•	\$12,790,909 Z
•		•	
RECAPITULATIO	N.		
Green Farmings			#14 509 000 0
Gross Earnings,	• •10 61	- e 260	\$16,583,882 84
Total ordinary expenses, we extraordinary " consisting of addi-	\$10,01	0,302	17
tional second track and sidings, addi-			
tional locomotives, cars, &c.,	0 17	4,547	10 .
tional locomotives, cars, acc.,	2,11	4,041	
			— 12,790,909 <i>2</i>
Leaving a balance of			\$3,792,973 5

The gross revenue of the line for 1866 is equal to \$46,323 41 per mile of main line of road (358 miles,) and is less than the aggregate receipts in 1865, \$875,286 65.

The	decrease	upo	n passengers and	emi	grants	is		-	\$788,671	56
"	"	"	expresses is	-	-	-	•	-	109,354	63
"	**	"	Government tro	ops	is	-	-	-	717,899	16
									1,615,925	35
and										
The	increase	on T	Inited States Mail	ls,	-	\$	2,599	45		
"	"	" r	egular freights,	-	-	5	15,728	22		
"	"	" 1	miscellaneous,	-	•	2	22,311	03		
						_			740,638	70
	Total de	creas	se,					_	\$875,286	65

The whole number of passengers carried in 1865 was 2,861,836, and during the past year, 2,673,568. The average distance travelled by each passenger was 52 miles, and the previous year 71½ miles; this difference being due to the larger amount of through travel and troops in 1865.

The number of tons of freight moved (including 266,359 tons of fuel and other materials transported for the Company,) was 3,452,718, embracing 1,413,181 tons of coal. The increase in the coal traffic is 338,424 tons, and the whole tonnage of the road exceeds that of last year, 653,908 tons, nearly 25 per cent.

The ordinary expenditures for working and maintaining the Company's roads were \$10,616,362 17, which is equal to 64 per cent. of their revenues, or, including the expenditures for construction and equipment upon its own line, and the outfit of the Philadelphia and Erie and other railroads, 77_{100}^{12} per cent.

The earnings of the Company's canals were:

From	Susquehani	a Division,		-	-	-	-	-	\$252,681 42
"	Juniata	"	-	-	-	-	-	-	35,175 32
"	miscellaneo	us sources,	-	-	-	-	-	-	10,010 42
	Tota	l earnings,		-	-	-	-	-	\$297,867 16

Against \$181,015 38 for 1865.

The cost of maintaining, enlarging and operating the canals, was:

For	Susquehanna D	ivision,	-	-	-	-	-	•	\$130,212	93
"	Juniata	"	-	-	-	-	-	-	101,501	50
**	Western	"	-	-	-	-	-	-	1,723	55
	Total expenses,		-	-	-	-	-	=	\$233, 4 37	98

Showing a net profit during 1866 of \$64,429 18.

Estimating the value of these canals when purchased at one million of dollars, they now stand this Company, including interest and the cost of their renewals and enlargement as far as it has progressed, at about \$2,750,000, for which sum they will be sold to the Pennsylvania Canal Company for stock in said Company, in pursuance of the policy sanctioned at your last annual meeting.

It is believed, that the growing bituminous coal and lumber transportation that may be thrown upon the Pennsylvania Canal, at or near Huntingdon will, upon its enlargement, make it a profitable investment. Above Huntingdon, it must in consequence of a great amount of lockage, eventually be abandoned, and a railway occupy its route, along which there exists an abundant water power to give life and activity to a large manufacturing population.

The earnings	of the	Philadelphia	and	Erie	Railroad,	in 186	36,
were:							

From	Passengers	3,	-	-	-		-	\$686,621	78
"	Troops,	-	-	-	-	•	-	48,103	13
"	Freight,	-	-	•	-	•		1,744,299	13
"	Express m	atter,	•	-	-	•	-	26,941	43
"	Mails,	-	-	-	-	-	-	18,501	96
. "	Miscellane	ous so	urces,	-	-	-	-	16,584	36
								\$2,541,051	7 9

Deducting taxes, overcharges, &c., \$98,589 13 from \$2,541,051 79, leaves \$2,442,462 66 as the sum upon which 30 per cent. is due the Philadelphia and Erie Railroad Company, amounting to - \$732,738 80

The operating expenses during the

same period were:

For	conducting transportation	,	-	-	620,845 80
"	maintenance of way,	-	-	-	624,245 02
"	motive power,	-	-	-	682,947 62
"	maintenance of cars, -	-	-	-	158,936 09
					\$2,819,713 33

Showing a loss to this Company in operating the line of

\$278,661 54

This loss is largely to be attributed to the bad condition of the older bridges erected by the Philadelphia and Erie Railroad Company over the Susquehanna, and the unfinished character of the work generally upon the whole line.

The passenger travel has fallen off during the year in sympathy with that of nearly all of the other railways of the country. To this general depression this line has also had added to it, the loss of travel from the decay of the speculative excitement of the oil region, while the same train accommodation has to be maintained.

The tonnage of the Philadelphia and Erie is mostly made up of cheap products that can only be moved at low rates of transportation, which under the existing condition of the business of the country, are inadequate to meet the cost of their movement at the per centage stipulated in the lease of the road. This traffic has been quite irregular during the past year, though in the aggregate it has largely increased over that of 1865, and must continue to grow with the increase of the population of the region traversed, while the relative transportation expenses can only be reduced by this enlargement of its business and a fall in the prices of labor and materials.

Arrangements are being made to increase the business of the road by the establishment of a line of steamers between Erie and the other lake ports, under the patronage of this Company, with anticipations of successful results.

The future of this great work is very encouraging, but its traffic, as in all other similar projects, will require the application of capital and time to develope. The transportation facilities are ample for the accommodation of all the business that can be offered to it during the present year.

The whole revenue of the Pennsylvania Railroad Company from its several lines is as follows, viz:

From t	he Pennsylva	nia Railroad a	and bra	nche	8,	٠ -	\$16,583,882 84
**	46	Canals,	-	-	-	-	297,867 16
**	Philadelph	ia and Erie R	ailroad	l,	•	•	2,541,051 79
		mount carried	forward	1,	-	-	\$19,422,801 79

And the expenses of operating these lines are:		
Amount brought forward,	\$19,422,801	79
Pennsylvania Railroad, ordinary, - \$10,616,362 17		
" extraordinary, 2,174,547 10		
" Canal, 233,437 98		
Philadelphia and Erie Railroad, 2,086,974 53		
Thirty per cent. reserved to pay taxes and		
interest on debt of Philadelphia and Erie		
Railroad Company, 732,738 80		
· · · · · · · · · · · · · · · · · · ·	15,844,060	58
Balance,	\$3,578,741	21
From which deduct payments made during the year to		
the shareholders of the Pennsylvania Railroad Company		
for dividends, \$1,737,969; the balance to debit of inter-		
est and coupon account, \$539,859 57; the amount due		
to the Harrisburg and Lancaster Railroad Company		
under lease, \$135,274 18; the taxes on dividends, and		
coupons, \$438,855 57; and the annual sum of \$460,000,		
due to the State of Pennsylvania for the purchase of the		
main line of public works, amounting in all to -	3,301,958	32
Leaving a surplus of	\$276,782	89

This is the result of the year's operations of your railways and canals, after charging all expenditures for new work and additional rolling stock, &c., together with an instalment of \$100,000 upon the principal of the debt due the State, &c., to expense account.

The demands upon your Treasury, during this year, in addition to the ordinary expenditures for operating the road, will be about the same as estimated for 1866. To the completion of the Connecting Railway, and the increase of facilities for business upon the Western Pennsylvania and Pittsburgh and

Columbus lines, there will be added the extension of the Tyrone and Clearfield Branch to the town of Clearfield, near the centre of the great lumber and coal region of the Alleghenies. A number of improvements upon the Main Line, heretofore deferred in consequence of the high rates of wages and materials will not admit of further delay; while the road between Lancaster and Philadelphia, located before the successful application of locomotive steam power upon railways, requires extensive alterations in its alignment, to place it in harmony with the other portions of your railway.

That portion of this line crossing the high range of hills bordering the Great Valley commencing near Haverford College, and extending to Valley Creek—a space of over twenty miles—embraces the worst located parts of the old line, and requires alterations which will amount to nearly a new road for this distance. An appropriation of a quarter of a million of dollars annually to this object for a few years, will make these changes; the interest upon which sum will be more than repaid in the diminished cost of moving and maintaining the rolling stock of the Company.

Your Directors have alluded in previous reports to the rapid destruction of iron rails, and the increased cost of replacing them, under the frequent interruptions to the workmen from the numerous trains now passing over the line. Every effort to materially improve the quality of the iron to meet the wants of the augmenting traffic of the trunk lines having heretofore failed, attention was directed to the introduction of steel rails, and, with a view to test their efficiency, the President, while in England, in 1862, ordered a few hundred tons for trial. These proved so satisfactory that larger importations have been made

of Bessemer steel rails, which have entirely confirmed our expectations of their success. The cost of steel rails is at present about twice the price of the best iron rails, while their durability is fully eight times greater. It is confidently believed, however, that with enlarged works, increased knowledge of the ores required to produce the best quality of this metal, and greater experience in its production, they will be successfully manufactured at home and the price very largely reduced. At present the demand is equal to the supply, and prices are maintained. To avoid the heavy annual outlays that a change from a cheap to a dearer material would necessarily entail upon your revenues, it is proposed to continue for the present to re-roll the worn-out rails, and replace the annual wear and tear with steel rails. The general introduction of steel rails is now wholly a commercial question, in which the cost of the increased capital required for their purchase becomes the chief impediment to their general adoption. While the business of a line is small, it will still be economy to use iron rails, at an ordinary rate of interest upon capital, until the cost of producing steel is reduced to its minimum. When this result is accomplished, the general public will be materially benefitted by the reduced cost of transportation which the introduction of steel rails will enable railway Companies to afford.

The Company has also laid 500 tons of rails the wearing surface of which had been "steeled" by Dodd's process. The increased durability imparted to the rail by this process will probably extend its life three-fold, while its additional cost thus prepared is about 25 per cent. From the result of our experience it would seem that rails so treated will prove a valuable article as an intermediate between steel and ordinary iron rails.

The Directors have given to the subject of establishing a line of steamships between this port and Europe, committed to them at your last annual meeting, all the consideration which its importance required; but they have not yet arrived at a satisfactory conclusion as to the best means of effecting this desirable object. Proposals have been asked until the first of May next, by public advertisement, of those engaged in this business to establish such a line, under concessions, and a subsidy to be paid by this Company during the continuance of the contract.

In their last Annual Report, your Directors referred to the introduction of express freight lines upon your railway as a new feature in the policy of the Company, and one which had heretofore been opposed by its officers as unnecessary to the efficient conduct of the transportation departments of the Trunk lines. While these views remain substantially unchanged, they are quite clear that the introduction of these lines upon the Pennsylvania Railroad—after every effort had been made to secure their withdrawal from rival lines—became not only a necessity, but a duty which the Board owed to the shareholders. A failure to make use of this weapon, so dexterously and persistently used by our competitors in various forms to promote their interests, would have shown as little foresight as would have been attributed to the General Government, if it had failed to meet the preparations, known to be in progress upon the Merrimac, by the building of a more efficient iron-clad.

From the statistics of the Company, it appears that the ordinary freight business of the road has continued to grow in its usual ratio since the introduction of these freight lines, showing that their sustenance is abstracted from the business of similar organizations that exist upon rival routes, whose competition they were introduced to meet;—gaining for this Company a business not heretofore enjoyed by it, and which could not be secured by any other means.

It also appears from the same sources, that the freights brought to the road by these lines pay to the Company better net rates than is derived from any other portion of the Company's through business. The success of these lines, in collecting and distributing freights throughout the West, has been largely due to the inability of many of the Western railways to supply cars sufficient to accommodate the through traffic originating along their own and connecting roads, and, in consequence, the traffic has heretofore sought rival avenues, whose equipment was sufficient to furnish the means for its transportation.

Under existing contracts between this Company and the freight lines, it seems that the only point it is necessary to solve is, whether the rates charged for this freight by the rail-road companies are as large as the express freight companies can pay, and preserve the full efficiency of their organizations. As at present advised, the Directors are disposed to believe that they are, and that the interests of the Company would suffer great damage by their withdrawal from its service, while such lines, or other organizations to effect the same objects, are maintained upon competing routes.

The chief element of profit of these freight lines has been in the margins paid to them, above the ordinary railroad rates, by merchants disposed to patronize a medium of transportation where the responsibility is direct, immediately accessible and undivided from the point of shipment to the point of delivery of their merchandise; rather than a line made up of various railway corporations, of whose responsibility they are not familiar. Advantages such as are afforded by these organizations, cannot for obvious reasons, be fully accorded to shippers by any railway Company.

That the enterprise has proved successful to its proprietors, in view of the large amount of capital ventured in an untried field, should be a matter of gratification to the shareholders of the Pennsylvania Railroad Company, whose interest it was intended to and has so largely promoted. This success is mainly due to the thorough knowledge of the freight business possessed by those to whom the control of these organizations was first entrusted, and their comprehension of the means required to achieve the objects of their creation, united to a disposition and ability to embark whatever capital was required to secure favorable results to this Company and themselves. In other hands it might have proved a failure.

The Board has deemed it important to say this much in explanation of their action upon a subject which has met with considerable animadversion from the captious, and to assure the shareholders that under its contract it has entire control of these organizations, and as long as their operations conduce to your interest, they will be maintained; if otherwise, they will be abolished.

It will be gratifying to the shareholders to learn from a careful examination made of the statistics of the freighting business of the Company, that of the 3,186,359 tons of freight carried over the road during the past year only 158,264 tons of through freight has passed from points east of Philadelphia to and from Pittsburgh and the West, and 61,862 tons to and

from Baltimore, while 330,959 tons of through freight have been carried to and from Philadelphia and the West. The remainder, 2,635,274 tons, was local traffic of the State, between local stations and from them to and from Philadelphia and Pittsburgh. Philadelphia, therefore, in addition to the large local traffic mentioned, enjoys above one hundred per cent. more of the through traffic transported over the line than New York, Providence, Boston and all other points on the Atlantic sea-coast combined east of Philadelphia.

Since your last annual meeting, the Superintendent of Motive Power and Machinery, (J. P. Laird, Esq.,) resigned his position, and the Board has appointed as his successor, R. E. Ricker, Esq., who for many years had been connected with the active management of Western railways, and he will no doubt make a successful manager of the important department committed to his charge.

The acknowledgments of the Board are due to the officers of the Company generally, for the prompt and efficient manner in which the business of the line has been conducted during the past year.

By order of the Board,

J. EDGAR THOMSON,

President.

Resolved, That for the purpose of consolidating the Bonded and other indebtedness of the Pennsylvania Railroad Company and to raise funds to meet the annual demands upon the Treasury of the Company for new tracks, additional equipment, enlargement of depots, extensions of sidings, and to meet the legitimate demands of the traffic of the country drained by the road of said Company and its branches, for increased railroad accommodations, and also to preserve the proper relation between the share capital and debts of the Company, the following financial programme be and the same is hereby adopted:

First. That the Bonds of the Pennsylvania Railroad Company secured by the First and Second Mortgages, and those due the Commonwealth issued for the purchase of the Main Line of Public Works, and other indebtedness, be paid out of the proceeds of, or be retired by, Bonds to be secured by a Consolidated Mortgage upon the whole or such portion of the line from Philadelphia to Pittsburgh, with its equipment, and for such amount as the President and Board of Directors may determine, and the issue of the Bonds secured thereby shall at no time exceed the capital stock as the same may from time to time be increased.

Second. Dividends to be made semi-annually of not exceeding Four per cent. from the net profits of the Company, payable in cash, free of United States and State taxes, and that a stock dividend of Five per cent., based upon profits already earned, be declared at the regular dividend term in May next, and thereafter, in addition to the semi-annual cash dividend, a stock dividend of Five per cent. per annum be declared annually, if the net earnings of the Company will warrant the same.

GENERAL ACCOUNT.

THOMAS T. FIRTH, Treasurer. Nors.—The Cost of the Harrisburg and Lancester Railroad, when acquired by this Company, will amount to \$1,582,560, and is not included in this account.

E. & O. E.—Philadelphia, December 31, 1866.

THOMAS T.

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REPORT OF THE GENERAL SUPERINTENDENT.

OFFICE OF THE GENERAL SUPERINTENDENT.

Altoons, Blair Co., Pa., December 31, 1866.

To the President and Directors of The Pennsylvania Railroad Company.

GENTLEMEN:—I submit herewith the report of the operations of the Pennsylvania Railroad during the year 1866:

The earnings have been-

From	transportation of free	ght	and	tolls on			
	individual cars,	-	-	-	-	\$11,709,293	59
u	First-class passengers	,	-	-	-	3,245,800	06
"	Emigrant passengers,	-	-	-	-	139,721	25
"	Adams Express Comp	oany,	(reg	gular)	-	180,450	00
."	u u u	,	(ext	ra)	-	193,919	22
"	Transportation of U.	S. m	ails,	-	-	82,730	00
"	Government troops,	-	-	-	-	560,945	44
"	Rents of property,	-	-		-	59,720	12
"	All other sources,	-	-	-	-	411,303	16
	Total					\$16 593 999	91

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Gross earnings (brought for The expenses have been		•		\$16,583,882 84
-				
M	OTIVE P)WE	R.	
Ordinary, \$	2,919,122	,47		
New Locomotives, -	671,758			
New Tools and Machinery,	85,225	77		
Extension of Machine Shops				
and Engine Houses,	121,724	59		•
_			\$ 3,797,831 6	3
CONDUCT	ING TRAI	(SP	RTATION.	
Ordinary,	3,492,008	80		
New Buildings and Extensions	, 154,743	42		
			3,646,752	22
MAIN	TENANCI	e of	WAY.	
Ordinary,	2,845,465	98		
Extension of Second Track		- 00		
and Sidings,	250,965	09	3,096,430	37
•			5,050,450	••
		. OI	T CADS	
MAIN	TENANC	E UI	CARS.	
Ordinary,	1,070,912	2 77		
New Freight Cars, -	693,766	37		
" Passenger Cars, -	196,363	3 06		
			1,961,042	20
GEI	NERAL E	XPE	inses.	
Ordinary,		-	288,852	55
······· / /				\$12,790,909 27
N . T			•	. \$3,792,973 57
Net Earnings,	-	•		- φυ, ισά, στο υτ

213,581 40

479,149 27

RECAPITULATION.

Total Earnings, - - - \$16,583,882 84 " Ordinary Expenses, - - \$10,616,362 17 " Extraordinary Expenses, - - 2,174,547 10 Total Expenses, - - - 12,790,909 27 Net, - - - - \$3,792,973 57

COMPARISON WITH 1865.

Gross Earni	ngs—1866,	-		-	\$16,583	,882	84		
	1865,	•	-	•	17,459	,169	49		
	Decrease i	n Gross	s Ear	nings,	-	-	-	\$875,286	65
Net Earning	s—1866,	-	•	•	3,792	973	57	•	•
"	1865,	-	•	-	4,189	,110	95	٠	
	Decrease i	n Net 1	Earni	ngs,	-	-	-	396,137	38
Ordinary Ex	penses—18	66,	-	-	10,616	,362	17		
44	" 180	65,	-	•	10,881	,930	04		
	Decrease i		•	Expen	•	-	-	265,567	87
Extraordina	ry Expenses	3—1866	i,	•	2,174	,547	10		
44	"	1855	,	-	2,388	,128	50		

DIVIDED AS FOLLOWS:

Decrease in Extraordinary Expenses,

Total decrease in Expenses,

	Motive Powe	r.	Conducting Transportati	-	Maintenance Way.	oof	Maintenance Cars.	of	General Ex- penses.
1866 1865	-						1,961,042 1,657,625		-
Increase					201,834	85	808,416	- 81	122,715 21
Decrease	1,017,081	77	89,533	87				-	

The extraordinary expenses are as follows:

MOTIVE POWER.

For new Locomotives, \$671,758 80. " " Tools and Machinery, - 85,225 77 " extension of Machine Shops and	
Engine Houses, 121,724 59	878,709 16
CONDUCTING TRANSPORTATION.	
For new buildings and extensions,	154,742 42
MAINTENANCE OF WAY.	
For extension of second track and sidings, -	250,965 09

MAINTENANCE OF CARS.

For new Cars,	-	-	-	-	-	-	890,129	43
								_
Total ext	traord	linary	expens	es,	-	-	\$2,174,547	10

PASSENGER BUSINESS.

The number of passengers transported during the year and the number of miles traveled, are shown in the following table:

	NUMBER.	MILES TRAVELED
First-Class Passengers	2,008,595	96,948,773
Emigrant "	80,395	10,198,770
Commutation "	515,846	4,562,153
Government Troops	118,732	27,875,884
	2,673,568	139,085,550

COMPARED WITH 1865.									
	1866.	1865.	INCREASE.	PERCENTAGE OF INCREASE.	DECREASE.	PERCENTAGE OF DECREASE.			
First-Class and Commutation Passengers	2,524,441	2,455,652	68,789	2 80	•••••				
Emigrant "	80,895	27,791	2,604	9,37					
Government Troops	118,782	878,898			259,661	68 ₁₆₈			
Totals	2,678,568	2,861,886	71,898		259,661				
Total decrea	ase		•	·	188.26	8			

This aggregate decrease, it will be seen from the above table, is due entirely to the decrease in the number of troops carried; the demand for transportation on this account having largely fallen off since the close of the war. Both the first-class and emigrant travel show a considerable increase over 1865.

FREIGHT BUSINESS.

			I IIII		DODIN	LIDO.			
During the	e yea	r 18	366 th	iere	were tr	ansp	orted	over the ro	oad—
Fuel and oth Regular freig		ater	ial fo	r C	ompany -	use, -	-	266,359 3,186,359	tons.
7	Cotal	for	1866	, -	-	-	-	3,452,718	u
	"	"	1865	, -	-	-	-	2,798,810	"
]	ncrea	ase,	-	-	-	-	- .	653,908	"
Included in	n the	reg	gular	frei	ght, the	re w	ere n	noved—	
Oil, -		•	-	-	-	-	15	7,522 tons.	,
Coal -			_	_	_	_	1 41	3 181 "	

Total tons moved one mile, 513,102,181.

The business of the Road during the past year has exceeded in amount that of any previous season. This fact is shown both by the number of tons of freight carried and by the movement of cars at different points of the road. The gross receipts, however, show a decrease of five per cent. as compared with 1865, but this decrease is accounted for by the reduction in rates from the prices obtained during several previous seasons. The number of cars moved in both directions over the road is exhibited in the following table:

	1866.	1865.	INCREASE.
West Philad'a.—No. Cars sent Westward	116,198	91,126	27 ⁵¹ / ₁₀₀ pr. ct.
" rec'd from West	117,027	90,929	28,70 "
Harrisburg.—No. Cars sent Eastward	117,149	86,787	84 ₁₀₀ pr. ct.
" Westward	162,921	126,222	29 07 "
Altoona.—No. Cars sent Eastward	118,911	103,282	15,18 pr. ct.
" Westward	128,765	108,822	1833 "
Pittsburgh.—No. Cars sent Eastward	84,410	70,093	2042 pr. ct.
" rec'd from East	79,456	69,954	13,58 **

The increase at each point has been-

At Philadelphia,	-	-	-	-	-	28 ₁₀₀ p	er cent.
" Harrisburg,	-	-	-	-	`-	$32 \frac{0.2}{1.00}$	"
" Altoona, -	-	-	-	-	-	16_{100}^{75}	"
" Pittsburgh, -	-	-	-	-	-	17	"
_		_	_		_	_	

or an average increase in the number of cars moved, for the entire road, of $23\frac{47}{100}$ per cent. ,

The only points at which a decrease in tonnage is shown by the record of the movement of cars, are,

Marysville, Westward—Decrease, - $21\frac{95}{100}$ per cent. Huntingdon, Eastward, " - $10\frac{48}{100}$ " East Liberty, " - $10\frac{10}{100}$ "

The decrease at Marysville is due to the cessation of the business between Baltimore and the West, which was created by the demands of the general government during the war. The decrease in the shipments of live stock from East Liberty is attributable to the same cause. The decrease at Huntingdon arises from the suspension for a time of coal operations in the Broad Top region, owing to a strike among the miners during the summer.

The business originating on the Branch Roads, shows an increase of nearly 50 per cent. over that of 1865. This increase may be attributed to the development of the coal and lumber interests of that region, and gives promise of results still more gratifying in the future.

THE LIVE STOCK TRADE.

This branch of the Company's business shows a slight aggregate decrease from the trade of 1865, which is mainly attributable to the decrease in shipments on government account, as previously stated, to Baltimore and Washington. The increase in other directions, however, has been sufficient to give full employment to our stock cars.

COAL TRADE.

This traffic shows an increase of 338,424 tons, or 31₅48 per cent. over 1865. One hundred P. & R. R. R. joint cars have been added to the equipment for service in the Allegheny coal trade.

OIL TRADE.

The oil trade has gained largely during the year, and the quantity carried shows an increase of 28 per cent. over that of 1865. The total shipments have been 773,625 barrels from Pittsburgh and Allegheny Junction, of which 595,480 barrels were refined, and 178,145, crude oil.

ROLLING STOCK.

The report of the Superintendent of Motive Power and Machinery, shows that there are 362 effective locomotives on the road at this date. Compared with the number of effective engines in service at date of last report, these figures show an increase of 27, or 8 per cent. over 1865. The present equipment includes 56 engines added during the year, 35 of which were purchased from builders, and 21 rebuilt in the shops of the Company. There are at present undelivered on contracts made in 1866:

Ten-wheeled Fr	eight	Locomotives,	-	-	-	-	12
Eight-wheeled	"	" -	-	-	_	-	12

The passenger equipment shows an increase of 14 cars over 1865, and consists at this date of 276 passenger, emigrant, baggage, mail and express cars.

The freight equipment is as follows:

Box Cars,	-	-	-	-	-	-	1,811	
Stock "	-	-	-	-	-	-	995	
Gondola Cars,	,	-	-	-	-	-	2,072	
Coal "	-	-	-	-	-	-	728	
								5,606
Cars owned by	y oth	er C	ompan	ies	-	-	941	
Joint P. & R.	" A"	and	. "B"	Coal	Cars,	-	685	
Union Line C	ars,	-	-	-	-	-	800	
	•							2,426
	Tota	l,	-	-	-	-		8,032

This number includes cars added during the year by contracts with builders, as follows:

Box Cars,	-	-	-	• ,	-	-	16	
Stock "	-	-	-	-	-	-	172	
Gondola"	-	-	-	-	-	-	546	
								734
and cars by	ailt in	the	Compa	ny's s	shops,	as	follows:	:
Box Cars,	-	-	-	-	-	-	40	
Stock "	-	-	-	-	-	-	12	
Gondola"	-	-	-	•	-	-	30	
Coal "	-	-	-	-	-	-	19	
								91
To	tal nu	mbe	r of Ca	rs ad	ded,	-	-	825

The increase of freight equipment over that of 1865 has been in the aggregate 442 cars, of which 270 are the property of this Company, and 172 of Coal, or other companies. Of this additional equipment, 250 cars came upon the road so lately as to be of little service during the past season. Contracts are now outstanding for ninety box cars, sixty-four stock cars, and fifty gondola cars, which with cars building in the several shops of the Company are designed to fill existing vacant numbers.

The largely increased tonnage of the past year has been moved with an increase in the number of cars of only 5_{100}^{82} per cent., and an increase of engines of 8 per cent. A much greater number of our cars was used during 1866, however, on other roads than in the previous season, so that the available equipment for freight service during the year has not, in reality; exceeded that of 1865, to the extent represented by the percentage given above.

IRON BRIDGES.

Gratifying progress has been made in the work of replacing the wooden bridges on the line of the road with substantial iron structures. An iron bridge of five spans over the Juniata at Granville has been completed, and that at Mayes' will be ready for use in a few weeks. A double track bridge of wrought iron, including upper chord and posts, has also been built, at Altoona shop, for the Connecting Railway Company, and is now in process of erection over the Schuylkill, at Philadelphia. It consists of a single span of 262 feet 6 inches.

SECOND TRACK.

The second track on Middle Division has been extended by the addition of about one and one-half miles between Mill Creek and Bridgeport. About eight miles of second track are yet wanting between Manayunk and Bridgeport, the road-bed for which, however, is nearly ready, and it is expected the track will be completed during the coming season. On the river road, between Columbia and Middletown, only two miles of single line now remain, and the second track will probably be completed on that branch by June next.

WEST PENNSYLVANIA RAILROAD.

The extension of the West Pennsylvania Railroad was completed from Freeport to Allegheny City during the past autumn, and has been operated by this Company since December 1st, 1866.

You are respectfully referred to the accompanying reports of the Chief Engineer and Superintendent of Motive Power and Machinery for full and interesting details of the operations of their respective departments.

On the first of January last, Mr. G. C. Franciscus, Superintendent of the Philadelphia Division, was made General Agent for this Company at Philadelphia, and Mr. S. P. Darlington, Assistant Superintendent, appointed to fill the vacancy as Superintendent of the Division.

On the twentieth of January, this Company was deprived of one of its most efficient officers by the death of Mr. Samuel D. Young, Superintendent of the Middle Division. Mr. Samuel A.

Black, Assistant Superintendent, was placed in charge of the Division, and was appointed Superintendent on the tenth of April following.

On the fifteenth of July, Mr. John P. Laird, who had been connected with this Company for four years, as Superintendent of Motive Power and Machinery, resigned his position to enter the service of the Terre Haute, Alton and St. Louis Railroad Company. The position thus vacated was filled by the appointment of Mr. R. E. Ricker, then Superintendent of the Terre. Haute and Indianapolis Railroad, and a gentleman of extensive experience in the various departments of railway management.

My acknowledgments are due the Chief and Resident Engineers, the Superintendent of Motive Power and Machinery, the Assistant Superintendent, the Division Superintendents, and the subordinate employés of the Company, for the cordial support and assistance which I have received at their hands during the past year.

Respectfully submitted,

EDWARD H. WILLIAMS, General Superintendent.

REPORT OF THE SUPERINTENDENT

MOTIVE POWER AMD MACHINERY.

Altoons, Pa., January 15th, 1867.

EDWARD	H.	Wı	LLI	AMS,	Esq	Į.,

General Superintendent Pennsylvania Railroad.

DEAR SIR:—The following is an exhibit in general form of the operations of the Motive Power and Machinery Department for the year ending December 31st, 1866.

At the close of the previous year, there were on the main line and branches, in service and in the several shops under repairs and re-building, engines of all classes, - 352

To which number have been added during the past year, Engines to fill vacant numbers, as follows:

New Ten-wheeled Freight Engines,	-	. 3
" Eight-wheeled Passenger Engines, -	-	7
" Shifting Engines,	-	8
Rebuilding,	-	1
Engines to fill condemned numbers:		
New Shifting Engines,	-	2
From Philadelphia and Erie Road, Perkins'		
Freight Engines,	-	3
Additional numbers—		
New Ten-wheeled Freight Engines, -	-	16
Total number of Engines added		39

Brought forward, -	-	-	39	
Engines condemned during 1866, -	-	5		
" sent to Philadelphia and Erie Ro	ad.	2		
bont to I minute plan and mile the	,	_	7	
				32
		•		-
Highest number of Engines,	•		-	384
Engines cut up to rebuild,	-	-	6	
" condemned and worthless to re-bu	નાત	_	14	
	mu,	_	1	
" attached to President's Car, -	-	-	_	
Vacant numbers,	-	-	1	
•				22
Total number of (available) engines of a	ll clas	ses, J	an-	
uary 1st, 1867,	_	_ ′	_	362
Total number of (available) engines of al	lalas	oog T	0 m -	-
, , , , ,	1 Clas	363, 0	a.11-	995
uary 1st, 1866,	•	-	-	335
Increase of (available) engines during the	year,	-	-	27
		_		
Total number of (available) engines of all	l clas	ses, J	an-	
uary 1st, 1867,	-	-	-	362
Engines re-building at Altoona, January	lst, 1	867,		
eight of which are nearly completed,	_ ′	_ ′	12	
Engines in all shops under general and	ordi			
	orun	laily.	69	
repairs,	-	-	69	01
			_	81
Total number of effective engines, Januar	y 1st,	1867	, •	281
Engines condemned during the year, 21	or n	early	6 ner	cent.
of the total number.	, 01 11	July	- Por	
	.J L	l -	_ T	
Total number of engines on main line as			•	•
1st. 1867	-	_	-	-362

Th	e presen	t condition of which is represented	as :	follows:	
In	service,	in first class condition,	-	175	
"	"	" ordinary "	-	57	
"	"	wanting general repairs, -	-	33	
"	"	" ordinary " -	-	16	
"	Altoona	shops, re-building,	-	12	.•
••	all shops	s under general repairs, -	-	40	
"	u u	" ordinary or running repair	3,	29	
		·			362

CLASSIFICATION OF ENGINES.

	Pass	onger.	Freight,	ist Class,	Freight,	2d Class.		gines	
Division.	1st Class, Eight Wheel.	2d Class, Right Wheel.	Eight Wheel	Ten Wheel	Elght Wheel.	Ten Wheel	Work Train gines, kight Wheel.	Shifting Engines	Totals.
Philadelphia	14	7	6	35		11	10	12	. 95
Middle	17	2	19	87	5	18	10	12	120
Pittsburgh	18	14		80		· 19	8	•18	147
Totals	49	23	25	152	5	48	23	87	362

The mileage of engines, cost of repairs, fuel and stores, are 'exhibited in the following statement from the books of the Chief Clerk of the Motive Power Department:

MILEAGE OF ENGINES WITH TRAINS.

Division.	Passenger Mileage.	Freight Mileage.	Distributing Mileage.	Total Division Mileage.
Philadelphia	583,216	1,527,581	88,792	2,149,589
Middle	568,836	1,828,482	103,606	2,500,926
Pittsburgh	673,418	1,948,541	80,842	2,702,801
Totals	1,775,472	5,304,554	273,240	7,833,266

Total mileage of engines in 1866, 7,353,266
" " 1865, 6,604,300

Increased mileage, - - 748,966

. AVERAGE MILEAGE WITH TRAINS.

Division.	Passenger Average.	Freight Average.	Total Average Passenger trains.	Total Average Freight Trains.
Philadelphia	26,661	25,459		*******
Middle	25,856	21,059	••••••	
Pittsburgh	24,051	21,511		********
Total average of Passenge	er and Freight	trains	25,364	22,968

HIGHEST ENGINE MILEAGE.

Distan	Passenge	r Mileage.	Freight Mileage.		
Division.	Engine.	Mileage.	Engine.	Mileage.	
Philadelphia	184 209 334	49,896 46,704 39,917	186 288 4	84,316 87,845 86,683	

COST OF ENGINE REPAIRS.

				1865.		1866.	
	5				~~		~~
Philadelphia	Divisio	n,	-	\$197,239	05	\$213,432	95
Middle	"	-	-	373,747	54	269,384	93
Pittsburgh	u	-	-	480,749	07	414,987	87
				1,051,735	66	897,805	 75
Cost of Fuel	used,	_		757,457		653,910	
" " Oil, "		ind ?	Callow,	•		174,904	
				\$2,043,176	18	\$1,726,620	46
Deduct 11 ne	w Engi	nes i				4-7 ,,	
Total cost of	Repai	rs. F	uel an	d	_		
Stores, -		, -		\$1,759,034	06		

To make a proper comparison of engine expenses for the two years, the amount charged to repairs in 1865, for 11 new engines, \$284,142 12, should be deducted, as no new engines were charged in account of repairs in the past year.

CONSUMPTION OF COAL PER MILE RUN.

1863, per	mile	, 55 lbs.			Cost per bushel.	Cost per ton.
1864,	"	60	-	5 lbs. increas	е.	
1865,	"	65.4 "	coal alone,	5.4 " "	$11\frac{1}{2}$ cts.	\$2 88
"	"	71.4 "	adding wood	l.	_	
1866,	"	66.5 "	u u	4.9 "decrease	, 10,3 "	2 58
The ec	at af	ocal in	aludaa aaat a	f wood need fo	m leimälie	. ~

The cost of coal includes cost of wood used for kindling.

FUEL CONSUMPTION.

Year.	Number of tons Coal used.	Cost per Ton Delivered.	Total Cost of Fuel.	Remarks.
1865	263,006.23	\$2 88	\$757,457.93	Total amount of coal
1866	253,453.75	2 58	653,910.68	used, includes wood for kindling, reduced to tons of coal.
Decrease	9,552.48	80	103,547.25	

REPAIRS, RUNNING EXPENSES, ETC.

					186	55.	186	66.
Cost of Engine repairs]	per 100	miles	run,	-	\$11	62	\$ 12	21
" Stores used	"	u	"	-	3	54	2	38
" Fuel "	"	. "	"	-	9	19	8	89
Wages of Engineers an	d Fire	men, C	leane	rs				
and Watchmen per 1	00 mile	s run,	-	-	6	14	6	03
Total cost p	er 100	miles	run,	-	\$30	49	\$ 29	51
Miles run to a quart of	Oil, ge	neral a	avera	ge,	12.	17	15	.51
" a ton of co	al,	"	"	-	28.	01	29	.90
Wood is rated at 11	cords, e	equal t	o one	ton	of co	al.		
Tallow " 2 p	ounds,	- "	one	qua	art of	oil.		
4	•			_				

General repairs and rebuilding are included in cost of Engine repairs.

The work done at the shops of the Company during the year has comprised an unusual amount of rebuilding and general repairs, including new fire-boxes. To this cause is chiefly due the increased cost of repairs of Engines per mile run.

The prices of fuel, materials, stores, &c., have considerably declined, while the quantities used are generally larger than for the previous year.

During the summer months the wages of all our mechanics and shop men were reduced about fifteen per cent. from the previous winter rates. At the close of the year the wages generally average but little below the rates paid at the close of the last year. Including the twelve months of the year, the reductions of wages or forces have contributed but little to the reduction of expenses of this department.

Our rates of wages at West Philadelphia and Harrisburg are governed, more or less, by those of Philadelphia shops employing the same classes of labor, and at Altoona and Pittsburgh by the rates paid at the latter point.

STATEMENT OF ENGINE REPAIRS.

Thor	ough a	nd ge	includio eneral re epairs, es	pairs,	-	-	- - g reps	- irs,	21 143 95	
								,		259
New	Fire-l	es xoc	put in,		-	-	-	-	31	
"	Half	"	"	-	-	-	-	-	23	
										54
"	Steel '	\mathbf{T} ires	used,	-	-	-	-	-	104	
**	Iron	"	"	-	-	-	-	-	270	
64	Chille	d "	66	-	-	-	-	-	140	
									·	_514

The cost of engine repairs and the consumption of fuel and stores have been much increased during the past year from several causes. The tonnage carried has exceeded that of any previous season; the number of cars moved is greater than in 1865 by 23½ per cent. Without a corresponding increase in the number of engines, the available power has been severely taxed, and kept in constant service in order to meet the demands upon it. This is shown by the excessive mileage made in 1866, amounting to 748,966 miles. Under these circumstances, engines could not be spared for timely, ordinary, and general repairs, and when such repairs became indispensable, their cost was thus materially increased.

With adequate power for daily service and a proper surplus for repairs, the expenses of engine repairs per mile should be considerably reduced from the figures of the past year. In addition to the repairs rendered necessary by excessive service, an unusually large number of engines has required new fire-boxes and general repairs, especially the engines of the Pittsburgh Division. When we add to the present engine equipment, the thirty-four freight engines now contracted for, and those rebuilding at Altoona, the freight power should be ample for the proper handling of the present tonnage, and to form a reserve sufficient to allow the necessary general and ordinary repairs to be more promptly and economically made.

STEEL FIRE-BOXES.

It is now five years since the introduction of steel fire-boxes. We now have seventy-six in service: not one of which has, in any respect, failed, and those first used are still perfect and show no perceptible wear. They give no trouble from cracking, leaking at seams, or drawing of stay-bolts. The use of homogenous cast-steel for fire-boxes in coal-burning engines may be considered a complete success.

STEEL TIRES.

The use of steel tires was commenced with that of steel fireboxes. We now have sixty-two sets running under passenger and freight engines. As compared with iron tires, their wear is remarkable. The first set used ran 103,370 miles, (equal to five years' wear,) and on several passenger engines they have made a mileage exceeding 75,000 miles, in each case without turning. They are gradually being put under freight engines, and for all classes of service are considered safer, more durable, and hence ultimately cheaper than iron tires, while we claim for them equal or greater adhesion even on steel rails.

STEEL AXLES.

We have received during the year 600 steel axles for passenger cars, and 1,307 freight axles, which we have been gradually putting in service since July last. Our experience in their use is too limited to warrant an expression of opinion as to their durability or safety as compared with the best iron axles. We are of the opinion, however, that they will prove much superior to iron axles in every respect.

PASSENGER EQUIPMENT.

Comparative statement of cars on main line and branches at the date of the last and present reports.

KIND OF CARS.	In Service January 1, 1866.	Built During Year.	Equipment in Service January 1, 1867.	Had General Repairs, Painting, &c.	REMARKS.
Passenger	141	82	147	50	
Emigrant	40	4	44	6	
Baggage	48	8	43	9	
Mail	8	1	4	8	Had general repairs.
Express	88	4	88		Including 16 Box & 22 Express.
Totals	262	49	276	68	

147 Passenger Cars include one Directors' Car, one Special Car, and three small cars on Western Pennsylvania Railroad.

Broken up and destroyed during the year as worthless to repair:—Passenger Cars, 26; Baggage Cars, 8; Express Cars, 4.

In addition to the above eleven Sleeping Cars have been thoroughly repaired and painted, and three new Sleeping Cars constructed during the year.

The passenger equipment is divided on main line and branches as follows:

	PASSENGER.	BMIGBANT.	BAGGAGE.	TOTALS.
Main Line	118	42	27	187
Branches	29	2	16	47
Totals	147	44	48	234

All additions of new passenger equipment have been built in the Company's shops. The general condition of this class of our rolling stock has been somewhat improved within the year past. With present facilities it can be readily increased to any desired extent.

At least thirty-three new passenger cars should be added within the present year, to fill vacant numbers, meet depreciation, and increase the stock to 170 cars. An addition to the present number of baggage and express cars will also be necessary.

FREIGHT EQUIPMENT.

Two hundred cars have been sold within the year to the Pittsburgh, Columbus and Cincinnati Railroad Company, including 125 Box, 50 Stock, and 25 Gondola Cars. 600 new cars (100 Stock Cars and 500 Gondolas) have been added by contract. 107 Freight Cars of all classes have been built in the Company's shops, and 9,769 Freight Cars have had general and ordinary running repairs.

In August we had 600 cars under and waiting repairs at the several shops. For the past three months this number has been reduced to a low average of 210 cars. We are now able to make thorough and prompt repairs of all freight stock, and build 300 new freight cars annually. 204 new cars are under contract, and 176 cars are building in the principal shops to fill vacant numbers.

The Freight Equipment at the close of the year compares with that of 1865, as follows:

						1865.	1866.	
Box Cars,	-	-	-	-	_	2,002	1,811	
Stock "	-	-	-	-	-	946	995	
Gondola"	-	-	-	-	-	1,648	2,072	
Coal "	-	•	-	-	-	740	728	
		•						
-						5,336	5,606	
Increa	se,	-	-	-	-	270		K 606
Add I	J::	J., 1 (٦					5,606
				. i . n	_	600	685	
"A" and '		_			в,		000	
Altoona Co			iber C	•	-	20		
Penn Gas (-		"	-	254	291	
Riddlesbur	g Coa	land	Iron (Co., "	-	100	•••••	
Westmorel	and C	Coal C	٥،,	"	-	2 50	301	
Connellsvil	le Ga	s Coal	Co.,	"	-	40	*****	
Powelton C	oal a	nd Iro	on Co.	., "	-	150	149	
North-Wes				•	-	50	50	
Union Line				"	_	790	800	
Other Com				"	_	••••	150	
	F	~,						
						2,254	2,426	
Inc	rease,		-	•	_	172	•	
	•	•						2,426
m .	,	,	٠.٦	,		n 11 1	•	
				•	nıa .	Railroad a	and	
I	ndivi	dual (Cars, -	• •			-	8,032

CARS IN MAINTENANCE OF WAY SERVICE.

				1865.	1866.
Cabin Cars,	-	٠ ـ	-	13	16
Gondola "	-	-	-	98	98
Dump "	-	•	-	111	112
Hand "	-	•	-	153	16 4
Hand Trucks,	-	-	-	160	197
Derrick "	-	-	-	5	10

542 599 Increase, - - - 57

Timber

599

RECAPITULATION.

Freight Equipment of the Pennsylvania Railroad	, ;	5,606	
		2,426	
Cars in Maintenance of Way Service,	-	599	0.001
Add Passenger Equipment,—all classes, -	-	-	8,631 276
Total of all Cars on Main Line and Branches,	, -	-	8,907

Wheels and Axles used in repairs and renewals:

	NUMBER O	F AXLES.	TOTAL NUMBER	Number of	
FOR WHAT USED.	IRON. STREL.		OF AXLES.	WHEELS.	
Engine Truck	75	••••	75	661	
" Tender	185	••••	185	450	
Passenger Equipment	848	102	950	2,190	
Freight "	2,155	256	2,411	5,158	
Totals	8,268	858	8,621	8,459	

GENERAL REMARKS.

Early in the year the new shops and Round House at West Philadelphia were occupied. Nearly all the machine tools have been delivered and put in use. With the assistance of Columbia and Harrisburg Shops, there are now ample facilities to maintain the general and ordinary repairs of the Philadelphia Division. The several buildings with their machinery and tools are superior in all respects.

The force employed in Columbia Shops has been reduced to the lowest minimum for ordinary running repairs required at that point.

Harrisburg Shops, during the last six months, have been employed to their full capacity, on general and ordinary repairs of both engines and cars.

Mifflin Shops are now being used as auxiliary to the shops at Harrisburg and Altoona, with a limited force employed, exclusively on ordinary and running repairs. The machine tools are kept fully employed by new work from Altoona Shops.

Several new machine tools have been added to the machinery at Tyrone, which with those soon to be delivered, will be sufficient to keep up the ordinary and running repairs of engines employed on the Branch Roads, for the present year at least.

At Altoona, the shops have been employed to their full capacity, particularly since July last, in rebuilding engines worn out and condemned, and in general and ordinary repairs of the engines for both the Middle and Pittsburgh Divisions.

Several important additions have been made to the machinery, and further additions are authorized. When these are added, the capacity of these shops will be materially increased. The new smith shop was completed and occupied in July. The new Round House is nearly completed, and is at present being used for storing engines awaiting general or other repairs. It is a substantial, convenient structure, and, with the two other Round Houses, will afford ample room for housing engines and for making Round House repairs more conveniently than heretofore.

The enlargement of the engine shed at Conemaugh has been completed and occupied about three months. This improvement makes room for fifteen engines centring at this point. Still further additions are, however, imperatively required.

The present engine shed at Blairsville is entirely inadequate to the proper care and shelter of the increased number of engines required to be kept at that point by the opening of the West Pennsylvania Railroad extension. I would suggest the importance of building a Round House to accommodate twelve or fifteen engines, together with machine and smith shops, of a suitable size to maintain properly the running repairs of the power employed on the West Pennsylvania Railroad.

Within the past three years, the number of locomotives has been so largely increased, the service imposed upon them so severe, and the depreciation of the older engines so rapid, that with the facilities at command it has not been found possible to improve the condition of the motive power, and at the same time maintain the general and ordinary repairs at a proper standard to secure to the fullest extent, effective and economical working. This has been particularly the case on the Pittsburgh Division, where the engine service has been most severe. It has, therefore, been found necessary to increase the machine facilities in Pittsburgh as well as in Altoona Shops, in order to meet the increased demand for general power repairs.

Additions to the machinery in the principal shops, particularly to the list of heavy tools, will be necessary during the present year, to a greater or less extent.

The Master Mechanics and Foremen of the several shops, the subordinate officers, and the clerks and employés of the department generally, have performed their duties in a prompt, efficient and creditable manner.

Respectfully submitted,
R. E. RICKER,
Sup't Motive Power and Machinery.

REPORT OF THE CHIEF ENGINEER

OF THE

PENNSYLVANIA RAILROAD COMPANY.

MAINTENANCE OF WAY DEPARTMENT,

Altoona, January 10th, 1867.

E. H. WILLIAMS, Esq., General Superintendent.

SIR:—The following report on the business of this department for the past year is respectfully submitted.

ROAD-BED AND RAILWAY SUPERSTRUCTURE.

The grounds adjacent to the new engine house and shops at West Philadelphia, have been filled up to the proper level, the temporary tracks in use during the construction of the buildings have been relaid in a permanent manner, and a large amount of new track put down. The West Philadelphia yard has been much improved by broken stone filling, and the renewal of many of the sidings.

The Greenwich branch of the Delaware extension from the Point Breeze branch, at the corner of Twenty-fifth street and Long lane, to the Delaware river, near Greenwich Point, was placed in charge of this department on the first of June last. The road-bed being principally new embankment, required during the remainder of the summer, a considerable amount of gravel

filling. Some ballasting was also necessary on the Point Breeze branch. Both of these roads are now in good condition.

The second track on river road between Marietta and Middletown is completed, with the exception of some back-filling, and the superstructure of the bridge over Conewago creek, which is in progress. Between Columbia and Marietta there remains a space of only about two miles, the grading of which will be finished during the present winter, so that by the early part of summer, the second track on this division of the road will be complete.

The grading for second track between Manayunk and the rock cut east of Newton Hamilton, which was commenced in the latter part of July, is progressing favorably; a portion of the track is laid, and the remainder will be ready for use early in the spring,

The retaining wall at Jack's Narrows has been completed for a length of 2,535 feet, and built to a height above the water level of the canal for the remaining distance. The work is progressing rapidly, and the road-bed will be ready for the second track next summer.

The second track extension from Mill creek to Bridgeport was brought into use in July. Small extensions have also been made at Mount Union and Mapleton.

The single track at Johnstown is now reduced to 530 feet, the length of the bridge over Conemaugh river. All the sidings at Pittsburgh not relaid during 1865, and several at other points on the Pittsburgh division, have been renewed, and several new sidings constructed.

The maintenance of way on the Steubenville Extension from the passenger station at Pittsburgh to the passenger and freight station at South Pittsburgh, a distance of little over a mile, devolved upon this department at the commencement of the year.

The	ne v	v track laid	duri	ng t	he yea	r is a	ıs fol	lows:		
		ck between							es, 507 f	feet.
"	"	"	Mill C	ree	k and I	Bride	ren't	1 mile	970	"
46	"	at Moun	t Uni	on.			or v	,	800	"
"	"	" Maple			•	•	•	•	1,310	"
"	"	" Johns	town	Ĭ.	•	•	•		1,000	"
Sidings	at	West Phil	adelpl	าเล.	•	•	•	4 mile	es, 178	"
"	"	Washingto	n str	et i	wharf	•	•	_ mm.	582	"
"	"	Leaman P	lace		11 23 62 1,	•	•		550	"
"	"	Lancaster,		•	•	•	•		358	"
	"			•	. •	•	•		2,585	"
u	"	Marietta,	•	•	•	•	•		280	"
"	"	Branch Ju	nctio	n	•	•	•		1,104	"
u	"	Baldwin,	incoro	μ,	•	•	•		890	"
u	"	Harrisbur,	•	•	•	•	•	1 m.,	649	"
u	"	Marysville	5 ,	•		•	•	1 111.,	760	"
"	"	Cove, .	' ,	•	•	•	•		400	"
"	"	Duncanno	•	•	•	•	•		600	"
"	"	Perryville	1,	•	•	•	•		175	"
"	"	Mifflin,	•	•	•	•	•			и
"	"		•	•	•	•	•		960	"
"	"	Manayunk	. *	•	•	•	•		300	"
"	"	Huntingd	,	•	•	•	•		438	"
"	"	Huntingdo Altoona,)II,	•	•	•	•	1	1,635	"
"	"	Hollidarah	· T	· 		•	•	1 m.,	4,137	"
"		Hollidaysh	ourg r	orai	ıcn,	•	•		185	"
"	"	Cresson,	•	•	•	•	•		295	"
"	"	Lilly's,	•	•	•	•	•		2,386	"
"	"	Portage,	, •	•	•	•	•		1,123	
"	"	Conemaug	n,	•	•	•	•		2,451	"
"	"	Florence,	•	•	•	•	•		100	"
"	"	Lockport,	÷	. :	•	•	•		1,070	"
"		Blairsville	Junc	tion	, .	•			2,175	"
	**	Derry,	•	•	•	•	:		387	"
"	"	Brintons,		•	•	•	•		143	"
"	"	Homewood	l,	•	•	•			3,553	"
"	"	East Liber	ty,	•	•	•			569	"
"	"	Shadyside	, ·		•				220	"
"	"	Pittsburgh	١,	•	•	•	•		2,660	"
		Total,			•		.]	l7 m.,	1,525	feet.

The single track on the main line is now limited to the following sections:

At Susquehanna Bridge,		1 mile, 559 feet.
" Maye's Bridge,		. 850 "
Between Manayunk and Newton Hamilton,	•	4 m., 1,388 "
" Mount Union and Bridgeport,		4 " 288 "
Over Conemaugh Bridge, at Johnstown,	•	530 "
Total,	•	9 m., 3,615 feet.

The number of miles of single track in use at this date is as follows:

Main line, including sidings, .	•	•	850.5 miles.
Branches owned, including sidings,	•		44.6 "
Branches leased, " "		•	182.1 "
Private sidings and branches,.	•	•	31.3 "
Total,		•	1,108.5 miles.

The following quantities of materials have been used during the year:

	IBON RAILS. Tons.	STREL RAILS. Tons.	WROUGHT-IRON CHAIRS.	SPLICE JOINTS.	Spixes. Lbs	CROSS-TIES.
Philadelphia to Columbia	8,804	166	2,099	8,066	54,474	80,008
Harrisburg and Lan. R. R.	1,868	280	852	4,114	61,577	48,294
Harrisburg to Altoons	4,891	605	5,194	18,998	197,967	121,122
Altoons to Pittsburgh	5,147	540	4,822	10,676	178,114	121,498
Delaware Extension	86		25		1,690	126
E. B. & W. R. R	84		•••••	•••••	2,706	2,947
M. & C. C. B. B	*******		12	•••••	1,050	150
T. & C. B. B	798		8,155	?	80,750	19,288
B. E. V. B. R	43		88	•••••	8,889	7,096
Hollidaysburg Branch	5		12	••••••	1,780	4,880
E. & C. R. B	9	•••••	•••••	•••••	8,610	2,608
Indiana Branch	195		1,089		4,788	8,228
West Penn's B. R	••••••	•••••		•••••	1,130	1,870
	15,880	1,541	16,298	86,854	548,420	412,105

10,849 tons of the iron rails were obtained from re-rolling. In the month of July, 1864, seventy-eight tons of crucible steel rails were laid down at Altoona. In October, 1864, the same quantity was laid at Pittsburgh, and in June, 1865, 100 tons of the same description of rails were laid at Philadelphia and Altoona. These rails were of the Philadelphia and Erie pattern, four inches in height, weighing fifty-six pounds per yard. They

were all placed on sidings, upon which a large amount of work is done at slow rates of speed; none of them have broken, and they show at this date very slight appearance of wear. During October and November, 1865, 270 tons of Bessemer rails of the same pattern were laid on similar sidings, at the principal sta-Some few of these rails have broken down at the ends, probably on account of having been cut off too close at the works, but they are generally wearing remarkably well. the points where the above rails have been in use, two or three sets of iron rails would have been worn out, while the steel rails are yet in good condition. During the past year, 1,541 tons of Bessemer rails have been laid down in the main tracks; about 600 tons of which are of the Philadelphia and Erie pattern, and the balance are of the pattern adopted on this road, having a height of four and a-half inches, and weighing sixty-seven pounds Experiments are now in progress to determine the per yard. relative endurance of iron and steel rails, by placing them where they are subjected to exactly the same usage.

BRIDGES.

The trestle work at the west end of the bride over Schuylkill river on the Delaware extension, is undergoing a thorough repair, as several years may elapse before the filling in is completed.

The old piers at Big Conestoga bridge have been taken down and the masonry of two new piers and abutment facings is rapidly approaching completion. The iron superstructure is also in course of preparation, and will be ready for raising within the next two months. The masonry of the bridge over the canal west of Middletown has been renewed, and an iron superstructure of eighty feet in length erected.

At Susquehanna bridge 41 chord pieces, 970 floor beams, 379 braces, and 38 arch pieces, have been renewed during the year. The iron bridge of five spans over the Juniata river at Granville, which was in progress at this time last year, was completed soon

after. A similar bridge is now in course of erection over the Juniata at Mayes, two lines of trusses being completed and the third well advanced. The iron truss bridge over the canal at Mayes has been moved to Manayunk, to replace a wooden bridge over the canal at that point; and an iron plate bridge with less depth of truss, has been erected at Mayes, for the purpose of affording greater headway for boats on the canal. General repairs have been made to several of the bridges on the Middle division, and most of the iron bridges repainted.

Four overhead road bridges on the Philadelphia division and three on the Middle division, have been renewed; wooden stringgers have been replaced by iron on ten bridges of spans under 26 feet on the former, and three on the latter division; and a number of stone culverts built, varying from two to three feet span.

On the Hollidaysburg Branch a wooden Howe truss bridge of seventy feet clear span has been erected over Gibboney's run.

Stone masonry for various purpose of construction and renewal during the year, has been built as follows:

Philadelphia	Divisi	on,	•	• •	12,180	Perches.
Middle,	"	•	•	•	26,982	"
Pittsburgh,	"	•	•	•	2,803	"
T. & C. and	B. E.	V. bra	nches,	•	3,440	u
					45,405	u

ENGINE HOUSES AND MACHINE SHOPS.

The new engine house at West Philadelphia was ready for use in the early part of the year. A vault has been constructed near the paint shop, for storing inflammable materials; the old car shops removed, and sundry additions and improvements made at the shops. The brick building near the engine house, formerly occupied as a factory and purchased by the Company, has been fitted up as a carpenter shop for the Maintenance of Way Department.

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At Huntingdon the blacksmith shop has been completed and a store house for iron, 17 by 33 feet, erected. At Altoona, the brick blacksmith shop, 60 by 274 feet, with twenty double fires and a furnace, has been finished, and a brick engine house, with capacity for forty-four engines, is nearly completed.

The old part of the engine house at Conemaugh has been rebuilt to correspond with the more modern portion; the engine house at Brinton's has been enlarged so as to accommodate the local passenger engine; and at Pittsburgh a sand house and shed for storing lumber, 40 by 100 feet, have been erected.

WOOD, WATER AND COAL STATIONS.

A stone reservoir of 50 feet diameter has been built at Steamboat station, and new pipes laid of larger calibre than those heretofore in use. Two additional tubs have been put up at Downingtown, and the station placed in a very efficient condition.

A new wood shed has been erected at Newport. At Mifflin the wood shed has been rebuilt, and a part of it fitted up for storing materials; a line of pipe has been extended to the river, and by means of a steam pump placed in the machine shop, an abundant supply of water is obtained. Larger pipes have been substituted at Lewistown and Tyrone, and general repairs made at several water stations on Middle division. On account of the reduced consumption of wood, the storing of wood at Cove, Baily's, Tuscarora, Black Log, Anderson's, Manayunk, and Mapleton stations, has been discontinued.

A new building and tank have been put up at Alligrippus. A stone reservoir of 40 feet diameter has been built at Summerhill. The supply pipes at Conemaugh and Derry have been replaced by others of larger size, and at the latter point have been extended up the stream 931 feet to a good position where a substantial dam has been constructed. At Latrobe the well has been reamed out, and a larger tube and pump put in; two

additional tanks have been erected and an abundant supply of water provided. The boring at East Liberty stock yards has resulted in giving a supply of water, which it is believed will be ample for all purposes. A stone reservoir 40 feet in diameter has been built at a point between Turtle creek and Brinton's stations, and pipes are being laid to conduct the water into it from a small stream near by.

PASSENGER AND FREIGHT STATIONS.

General repairs to a considerable extent have been required at the freight depot at Thirteenth and Market streets, Philadelphia. A commodious building for passengers, with a dwelling house attached, has been erected at City avenue. A large stone stable, with blacksmith shop attached, has been built at West Philadelphia for the accommodation of the mules employed in hauling freight cars; and a brick building erected for the horses and vehicles required for the business of the Company.

The warehouse at Perryville has been repaired and enlarged, and a stock yard provided. An addition has also been made to the warehouse at Mount Union. A warehouse, 24 by 48 feet, has been built at Birmingham, and a stone wharf, 310 feet in length, at Mill creek station.

At Pittsburgh, the warehouse for the Steubenville Extension has been lengthened 155 feet, and a brick building 42 feet square and three stories in height, erected for offices; the adjacent ground has been graded, a paved entrance provided for wagons, &c., and the tracks relaid. A brick building, 24 by 67 feet, for storing ice, has been built near the passenger station. A large amount of repairs has been made along the entire line of road to passenger and freight buildings and platforms.

WORKMEN'S HOUSES.

Houses for foremen of road repairs have been built at New Florence and Blairsville Junction. A large dwelling house adjacent to the road at Pittsburgh, situated on land purchased for track extensions, has been fitted up for the accommodation of train-men.

A number of small buildings for telegraph offices, tool houses and other purposes, have been erected at various points along the road.

REAL ESTATE.

The following properties have been added to the Real Estate of the Company, viz:

Several lots at Columbia, Lancaster County.

A lot at Highspire, Dauphin County.

Tract of land, with stone quarry, at Marysville, Perry County.

Small lot at West end of Susquehanna bridge "

Lot at Duncannon, - - Perry County.

Lot near Millerstown, - " "

Lot at Perryville, - - Juniata County.

Lot at Granville, - - Mifflin County.

Lot at Huntingdon, - - Huntingdon County.

Lot at Altoona, - - - Blair County.

Lot at Gallitzin, - - Cambria County.

Lot near Cresson, - - " "
Lot at Lilly's Station, - "

Lot at Blacklick, - - Indiana County.

Lot and water privilege at Derry, Westmoreland County.

" " near Brinton's, Allegheny County.

Several Lots at Pittsburgh.

A Lot at Altoona and one in Logan Township, Blair County, not being required for the business of the Company, have been sold.

FUEL.

The consumption of fuel during the year was as follows:

·	Cords of Wood.	Net Tons Coal
Philadelphia Division	5,927	41,910
Middle "	12,878	97,804
Pittsburgh "	9,259	78,397
T. & C. and B. E. V. Branches	892	8,577
Consumed by Locomotives	28,456	226,688
at Shops and Stations	•••••	16,080
Total	28,456	242,768

The rolling stock in service of this department consists of thirteen locomotives, sixteen box-cabin cars, ninety-eight eight-wheeled trucks, 112 four-wheeled dumps, 164 hand cars, 197 hand trucks, ten four-wheeled derrick cars, two four-wheeled timber trucks, and two four-wheeled scaffold cars.

Extra engines and cars have been employed occasionally during the year, for moving materials.

BRANCH ROADS.

On the East Brandywine and Waynesburg, and the Ebensburg and Cresson Railroads, no work has been done beyond ordinary repairs. Both of these roads are in good condition.

On the Mifflin and Centre County Railroad, small buildings for the accommodation of passengers have been erected at Lewistown and Freedom Forge. Several of the bridges have been raised; some repairs made to the bridge over Juniata river, and 1,658 feet of track laid on private sidings.

On the Tyrone and Clearfield Railroad, two rock cuts have been widened, and a considerable amount of grading done adjacent to the engine house at Tyrone, the material being used to fill up the trestle work, a section of which, 470 feet in length, is now ready for the permanent track. Extensions of sidings have been made at Sandy Ridge and Philipsburg. The forty-five pound rails between Tyrone and Bald Eagle Junction have been replaced by rails of fifty-six pounds per yard. A branch has been constructed, one and six-tenths miles in length, to the Decatur coal mines. The length of new track laid during the year is three and nine-tenths miles, including one and one-tenth miles of private siding.

A station house for passengers at Osceola, was completed in the early part of the year. A water station has been established about one mile north of Osceola, and a house and tank put up at Tyrone engine house. The machine shop, which was in progress at date of last report, was ready for occupation in the month of August.

The general condition of the road-bed and track on the Bald Eagle Valley Railroad has been much improved. The main track at Bellefonte has been extended 523 feet; new sidings have been laid at Hannah Furnace, Port Matilda, Bellefonte and Mount Eagle; and additions made to the sidings at Curtin, Howard, Eagleville and Beech Creek. The whole amount of new track laid is one and five-tenth miles, of which four-tenths of a mile are for private sidings. New masonry has been built for twenty culverts and small bridges, and the superstructure of several of the latter renewed. Warehouses, with rooms for passengers attached, have been erected at Port Matilda, Julian, Beech Creek and Milesburg, all of which are in use, except the latter, which is not entirely completed. A dwelling house for foreman of road repairs has been built at Bald Eagle.

During the past year, the Western Pennsylvania Railroad has been extended down the western side of the Allegheny river to Allegheny city, and the whole length, (sixty-three seventenths miles,) was opened for travel in the month of November. The portion of road in use during the year has been kept in good order at moderate expense.

The tracks through the West Philadelphia yard, for the accommodation of the Delaware Extension and Junction Railroad business, were completed in the month of July.

Very respectfully,

WM. HASELL WILSON,

Chief Engineer.

REPORT OF THE CHIEF ENGINEER

OF THE

CANAL DEPARTMENT.

Canal Department, Penna. Rail Road Co., Harrisburg, January 23, 1867.

To the President and Directors of the Pennsylvania Rail Road Company.

GENTLEMEN:—The following is my Annual Report of the operations on the Pennsylvania Canal for the year 1866:—embracing also the receipts and expenses of the previous years; and estimates for completing the enlargement.

The Canal was opened on the first of April, and closed on the thirteenth of December: the navigation was open and uninterrupted for 257 days.

The Receipts	were,			\$297,867	16
The Expenditures		•	•	233,437	98
The net earnings	u	•		\$64,429	18

The ordinary repair expenses were, \$58,24	8 9 8		
The expenses properly chargeable to			
the flood of March, 1865, and included in ordinary repair expenses, 50,00	00 00		•
		\$108,248	98
The enlargement, including the new mecha	nical		
work,	•	89,816	00
The operating expenses, being those of Lock-	keep-		
ers, Collectors, Taxes, &c., were,	•	35,373	00
Amount,	•	\$233,437	98

The maintenance or ordinary repair expenses were \$21,070 77 less than in 1864; the operating expenses were \$36,549 49 less, and the whole amount expended was \$77,117 34 less than in that year. (Owing to the destructive flood of March, 1865, no comparison is made with the operations in that year.)

The following statement shows the earnings, expenses, and profit or loss, by Divisions:

	BARNINGS.		BXPBN8ES.	PROFIT.	LOSS.	
Susquehanna Division	\$252,681	42	\$180,212 93	\$122,468 49		
Lower Juniata Division	29,615	66	75,664 30		\$46,048 64	
Upper Juniata Division	5,559	66	25,887 20		20,277 54	
Western Division		••••	1,728 55		1,723 55	
Incidental Receipts	10,010	42		10,010 42		
				\$182,478 91		
	\$297,867	16	\$288,487 98	68,049 78	\$68,049 78	
			Profit	. \$64,429 18		

\mathbf{T} he	Anthracite coal	freight	amounte	d to			588,542	tons.
"	Bituminous "	"	"	"			15,433	"
. "	Lumber	"	"	"			179,459	"
"	Miscellaneous	"	"	"		•	149,170	"
	The total am	ount of	freight v	vas	•	•	932,604	"

The coal came from the following places:

From the Wyoming Valley and North Br. Canals, 368,928 tons.

"	the Shamokin Region,	•	•	•	. 33,966	"
"	Trevorton,	•	•	•	. 13,533	"
"	Lyken's Valley, .			•	. 172,115	"
"	Broad Top and Allegheny	·,	•	•	. 15,433	"
	Amount,	•	•	•	. 603,975	"

Of this amount 316,615 tons passed through to Tide Water; 264,676 tons went to points on the Pennsylvania Canal, 20,475 tons went to Lebanon, on the Union Canal, and the balance, 2,209 tons, to points on the other connecting canals.

The lumber came almost entirely from the West Branch and Susquehanna Canal, and was consigned as follows:

To Philadelphia,	•	77,723 tons.
Baltimore,	•	46,044 "
Havre De Grace,	•	14,427 "
New York,	•	2,724 "
Points on the Pennsylvania C	anal,	28,161 "
Points on the Union Canal,	•	10,380 "
Amount,	•	179,459 tons.

Nearly all the trade was descending; 53,935 tons only came *up* the canal, the greater part of which was iron ore, from the Tide Water and the Union Canals, consigned mostly to points on the Pennsylvania Canal. The entire tonnage for the year

was carried on the Pennsylvania Canal, an average distance of thirty-seven and one-half miles; being equal only to 202,154 tons passing over the whole length of the canal—173 miles.

The net earnings were \$66,359 27 more than in 1864, although the gross receipts were \$10,748 07 less.

The aggregate amount of freight carried was 119,740 tons less than in 1864. The decrease being—

In Coal, .		•	•	•	•	25,84 8	tons.
" Lumber,	•	•		•	•	16,481	"
" Up Trade	, .	•	•	•	•	68,861	"
And in Misce	llane	ous D	escen	ding I	Freigl	nt, 8,550	"
				Ŭ	Ŭ		
						119,740	"

The Lyken's Valley coal trade increased 64,310 tons over any previous year, and paid a higher rate of toll.

IMPROVEMENTS MADE DURING THE YEAR.

The principal mechanical structures built new

On the Susquehanna Division,

Were; one lock, two lock-houses, three canal bridge superstructures, six bridge abutments, three miles in length of outside protection wall, raised three to five feet above its original height; and materials were delivered for the building of one cut-stone lock, one aqueduct superstructure and masonry, and six bridges. There was in addition to the mechanical work, a large amount of labor done at raising and facing the canal banks.

On the Lower Juniata Division,

There were rebuilt, eighteen canal bridges, two lock-houses, two culverts, (extended), one waste-way, and one thousand feet in length of outside protection wall and inside slope wall; and materials were delivered for two cut-stone locks, one culvert, six waste-ways, four bridge abutments, two canal bridge super-

structures of wood, and one of iron. There was a large amount of work done besides, at deepening a portion of the canal and raising the banks.

On the Upper Juniata Division,

There were built new, one aqueduct, (masonry and superstructure over the south branch of the Juniata river,) one dam abutment of cement masonry, one stone water-way, and three farm and road bridges.

The principal mechanical work now in progress of construction, and to be finished before the opening of the canal next spring, consists of three cut-stone locks, six waste-ways, two culverts, nine bridge abutments, five bridge superstructures of wood, and two of iron:—also an aqueduct over Stone creek, at Dauphin, the superstructure of which is eighty-seven feet in length, to be of wood, and the masonry of hammer-dressed stone work, laid in hydraulic cement mortar. The materials for these structures are mostly delivered on the ground, and paid for in the expenses of the past year.

The iron aqueduct superstructure to cross the Swatara, at Middletown, is nearly completed. It is two hundred and eighty feet in length, but will not be raised until next winter.

The v	alue d	of materials on hand is		\$4 8,766 16
"	"	Tools, . :	•	6,190 45
u	"	Steam Dredge, boat	ts and flats,	19,000 00
"	"	Steamboats and Bar	ge, .	15,000 00
u	"	Repair Flats,		6,850 00
		•		

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\$95,806 **61**

RECEIPTS AND EXPENDITURES IN THE PAST YEARS.
The earnings of the Canals since they came into possession of the Pennsylvania Railroad Company in August,
• • •
1857, have been \$2,180,693 88
All of which has been expended on the work, except 61,047 17
The amount actually disbursed has been \$2,119,646 71
Expended thus: For operating the Canals, . 352,614 55
For ordinary repairs, or maintenance, . 655,791 76
\$1,008,406 31
And for enlargement and renewal of mechanical
structures, 1,111,240 40
Total,
Of the foregoing disbursments there was expended
on the Western Divisions, \$219,179 54
And on the Juniata Divisions, 815,890 53
\$1,035,070 07
The entire receipts from the Western .
Divisions have been, \$85,295 84
And from the Juniata Divisions, 237,742 41 323,038 25
Showing the amount expended over receipts on those portions of the Canal (being a loss of) \$712,031 82
This loss has been more than recovered by the profits or revenues on the Susquehanna Division of the Canal.
(19) 777 (75 () 1 1 7 6 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

The Western Divisions are abandoned for Canal purposes; the mechanical structures on the Upper Juniata Division are nearly all rebuilt, and the bed and banks of that Division are now in good repair, therefore those unprofitable and heretofore expensive portions of the Canal, will not hereafter be sources of very serious expense.

The Susquehanna Di	vision o	n the o	ther ha	nd ha		
earned,	•	•	•	•	\$1,774,477	92
And there has been	expende	ed on it	,	•	1,084,576	54
Showing a					\$689,901	38
And if we add to the	is the a	mount	expende	ed for	•	
enlargement,	•	•	•	•	506,332	19
The Division will sh a period of nine y	ow a ne	et profi d five r	t (cover nonths)	ing } of	\$1,196,233	57

OF THE HISTORY OF THE CANAL.

The Pennsylvania Canal has been owned and operated by the Pennsylvania Railroad Company since August 1st, 1857. In December, 1865, the Western Divisions, 102 miles in length, were finally abandoned for the purposes of navigation, leaving the Juniata and Susquehanna Divisions, 178 miles, including feeders, to be kept up and operated as required by law.

The Canal, when it came into the possession of the Company, was in a very dilapidated condition throughout, so filled up and out of repair that it was unfit for use at many places. The through trade had been wholly diverted from it to the Pennsylvania Railroad, and the only remaining tonnage that paid expenses was that of coal and lumber coming on at the mouth of the Juniata. About one half of this trade stopped at different points on the Susquehanna Division, and the balance passed on to Tide Water. The average distance the tonnage was carried, and for which tolls were received, did not exceed thirty miles, whilst the whole line, having an aggregate length of 280 miles, had to be maintained and operated. The trade has not changed materially since that time. It increased somewhat up to 1864, but has decreased in the last two years.

The condition and capacity of the Canal, when owned and operated by the State, are described in the following extracts from the Annual Report for the year 1856, of Edward F. Gay, Esq., then State Engineer. In speaking of "The Eastern Division, Main Line," he says "The original dimensions of

this Canal as constructed, contemplated a water surface of forty feet wide, depth of water four feet, and width of bottom twentyeight feet. At the time of my examination, the water surface was found unimpaired, but the bottom width on a portion of the line had become reduced to an average of sixteen feet, and in some cases to not more than ten feet wide. At such points the water does not exceed three and a-half feet in depth, which gradually diminishing at the sides renders the passage of boats exceedingly difficult. Indeed it is not unusual in such places to see what is technically called by the boatmen a 'jam,' that is, two loaded boats passing each other in opposite directions become wedged in between the sides of the Canal, thus obstructing the passage of other boats, until a 'swell' of water from the nearest lock above sets them afloat, and enables them, to proceed. the meantime a large number of boats accumulate, and serious detentions are caused. This is one of the most important Divisions in the State, but the business is done to great disadvantage, and it must be evident from the description here given, that its capacity is less by nearly one-fourth than it was originally designed to be. Hence the cost of transportation upon it is increased by that amount, as the same power, the same complement of men, and the same time only is required to pass a boat carrying 100 tons, that would be for one with seventyfive tons."

The part of the Canal here described by Mr. Gay, now known as the Susquehanna Division, has at present a depth of five feet water, a full width at water surface of forty-five feet, and at Canal bottom a width of thirty feet. The average tonnage of boats for a number of years past has been ninety-five tons, and boats carrying from 130 to 140 tons, now pass without difficulty. This part of the Canal has therefore been increased to double the capacity it had when purchased from the State, and the cost of transportation, according to Mr. Gay's reasoning, which is correct, has been reduced fully fifty per cent. On this Division the mechanical structures have been for the most part rebuilt in a complete and permanent manner, and of sufficient dimensions for the enlargement of the Canal.

The greater part of the mechanical work on the Juniata Divisions has also been rebuilt, and the depth and width of the Canal much improved.

The enlargement authorized by your Board, was to deepen the Canal to five feet water, to widen the locks on the Lower Juniata to correspond with those on the Susquehanna, and when the business should justify it to extend the locks on the Susquehanna Division to twice their present length.

All receipts beyond what was necessary to maintain and operate the Canal, have been applied to the enlargement contemplated. There will be needed however, in addition to the amount already expended, \$400,000 to complete the work to Huntingdon, and it will require from four to five years to do the work, unless other means than the surplus earnings shall be provided for that purpose; as but little additional trade can be expected until the enlargement is completed to that place. The plan of enlarging the Canal out of its earnings is slow, and keeps idle a large investment, and useless the greater part of the Canal, for an unnecessary length of time.

THE CONNECTING CANALS; AND ESTIMATES FOR AN ENLARGE-MENT, ETC.

The Companies owning the several connecting Canals on the Susquehanna and its tributaries have become impressed with the fact, that their Canals cannot, in their present condition, long hold even the limited trade they now have, and that an early enlargement has become necessary to their business success. A depth of five feet is now regarded as insufficient. Seven feet has been proposed and advocated as the proper depth to be attained, but in view of the great expense necessary to so thorough an improvement, it is deemed objectionable. A depth of six feet water is therefore regarded with most favor:—having that depth throughout, it will still be necessary to widen the Canals to a minimum width of thirty-three feet on bottom, and fifty feet at top water line, in order to enable loaded boats to pass without difficulty.

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If an increased enlargement to these dimensions can be carried into effect on the connecting Canals, I would recommend most decidedly that it be adopted on the Pennsylvania Canal. additional expense necessary to put one foot more water in your Canal, I estimate at \$2,200 per mile, which will in round numbers amount to \$300,000, for the 137 miles from Columbia to Huntingdon dam. The whole expense yet to be incurred, for deepening that part of the Canal to six feet water, and for otherwise enlarging it to correspond with that depth, is estimated at \$850,000, which with what has already been expended, will swell the total cost of the enlargement of the Canal, when completed, to near \$2,000,000. These estimates, do not cover the cost of repairing any damages that may be caused by extraordinary freshets before the work is done, but they do include the cost of making the work so permanent that serious damages from floods, as heretofore, need not be apprehended, after it is completed.

This additional foot in depth of water, will enable a boat to pass the single locks, carrying 175 tons, or the extended locks with 350 tons, being about thirty per cent. more than can be carried on five feet water, and nearly twice the average tonnage of the boats now in use, on the present prevailing depth of four feet.

The Canal enlarged as proposed with single lock chambers, (17 x 90 feet) will have in an ordinary boating season, a tonnage carrying capacity of 3,000,000 tons, and with locks extended to 180 feet in length, 5,000,000 tons.

If the necessary means are provided, the enlargement can be completed in two years. And in making it, the navigation on the Susquehanna Division need not be interrupted; but on the Juniata, where it may be found advisable to make entire changes in portions of the line, the Canal would be closed, probably all of one season.

The Companies controlling the out-let Canals,—the Susquehanna and Tide Water, extending to the Chesapeake Bay, and the Union Canal, connecting with the Delaware by the Schuyl-kill navigation,—are desirous for an early enlargement of the Pennsylvania Canal to Huntingdon, and they propose to enlarge and improve their respective Canals accordingly, and to equalize toll charges on through freight.

The West Branch and Susquehanna, and the Wyoming Valley Canals would, it is believed, be at the same time enlarged and improved to correspond with those below.

The Coal fields tributary to this route now produce 3,000,000 tons a year, one-third at least of which should be carried by Canal.

The Tabular Statement below shows the present capacity of the mines in the several coal regions accessible to markets by this route; the coal shipped in 1866 by Canal, and by Rail separately; and an estimate of the amount that could be controlled if the Canals were enlarged:

	Present Capacity of Mines.	Shipped by Canal in 1866.	Shipped by Rail in 1866.	Probable Annual Shipments by Canal if enlarged.
Lyken's Valley,	800,000	171,928	62,000	250,000
Trevorton,	100,000	18,752	81,000	80,000
Shamokin,	800,000	28,916	77,000	100,000
Wyoming,	1,500,000	868,944	101,000	700,000
Broad Top,	600,000	11,196	254,524	175,000
Allegheny,	100,000	4,237.		20,000
Philipsburg,	100,000			80,000
Gas Coal,	500 000			100,000
Total,	4,000,000	608,000		1,405,000

The coal tonnage here estimated in anticipation of an enlarged Canal, is regarded as below, rather than above what it probably will amount to, say two years hence. The extensive Iron Works and other manufactories springing up along the line, will alone consume most of the increased quantities given.

It can hardly be doubted that an early and thorough enlargement of these several Canals, will make this a most important coal carrying line. The Pennsylvania Canal will then become a profitable improvement between Columbia and Huntingdon. The Upper Juniata Division, it is believed, may be made self-sustaining through its limited trade, and by judiciously leasing its surplus water power.

Under the views herein expressed, I most respectfully urge the adoption of measures to enlarge the Canals of this Company, if the connecting Canal Companies will enter into permanent and satisfactory arrangements for the movement of joint through traffic.

The Tabular Statements attached to this Report, give in detail much valuable information not otherwise given.

All of which is respectfully submitted.

THOMAS T. WIERMAN,

Chief Engineer.

ANNUAL REPORT FOR 1866.

CANAL DEPARTMENT.—STATEMENT No. 1.

Showing the receipts from all sources by months.

In January, t	he r	eceipts	were,		\$410 96
" February,	"	"	"		1,029 85
" March,	"	"	"	••••••	864 99
" April,	"	"	"	•••••••••••••••••••••••••••••••••••••••	16,696 98
" May,	"	**	"	•••••••••••••••••••••••••••••••	88,651 55
" June,	••	"	44	•••••••••••••••••••••••••••••••••••••••	41,784 85
" July,	"	"	"	***************************************	84,019 26
" August,	"	44	44	••••••	41,886 59
" September,	"	"	"	••••••••••••••••••••••••••••••	42,470 71
" October,	"	46	46	•••	86,477 80
" November,	"	**	"	••••••	84,575 81
" December,	"	"	"	•••••••••••••••••••••••••••••••	9,049 36
				-	
Total rec	ceipt	s for y	ear.		\$297,867 16

ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 2.

Showing in Detail the Expenses of Operating the Canal for the Year 1866.

	BUBQUEHANMA DIVIBION.	LOWER JUNIATA DIVISION.	UPPER JUNIATA DIVISION.	TOTALS.
Labor	\$2,044 20	\$176 00		\$2,220 20
Watchmen	87 50	8 00	\$100 00	145 50
Lock-Keepers	7,165 83	2,646 77	2,019 96	11,832 56
Weigh-Masters	601 04	88 88	40 00	724 87
Collectors	4,762 76	702 86	837 00	5,802 62
Stationary, Printing and Office Expenses	1,460 11	892 44	138 66	1,986 21
Rents and Furniture	48 98	80 00	27 89	106 87
Superintendence	1,652 17	1,219 66	432 01	8,803 84
Inoidentals	768 89	149 94	11 86	69 626
Drawbacks and Overcharges		827 50		827 60
State Revenue and Tonnage Tax	8,127 87	895 12	277 04	4,299 58
United States Excise Tax	2,638 66	455 67	105 28	8,194 61
Amounts	\$24,302 01	\$7,587 29	\$8,488 70	\$85,878 00

ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 3.

Showing the Expenses, Receipts, Profit or Loss on each Division, for the year 1866.

	•		KXPENSES	ISES.		Torat	TOTAL		
	Mille	Repairs.	Enlargement Total Operating.	Total Maintenance.	Operating.	Кхраняве.	RECEIPTS.	Profit.	Loss.
Susquehanna Division	2	\$63,393 30	\$42,517 62	\$105,910 92	\$24,302 01	\$105,910 92 \$24,302 01 \$130,212 98	\$252,681 42	\$252,681 42 \$122,468 49	
Lower Juniata Division	8	33,868 06	34,208 95	10 440,89	7,587 29	75,664 30	29,615 66	•	\$46,048 64
Upper Juniata Division	સ	9,264 07	13,089 43	22,858 50	8,483 70	25,837 20	5,559 66		20,277 64
Western Division	22	1,723 56		1,728 66		1,723 66			1,723 56
Incidental Receipts				-			10,010 42	10,010 42	
Totals246	246	\$108,248 98	\$89,816 00	\$89,816 00 \$198,064 98	\$35,378 00	\$233,437 98	\$297,867 16	₩	\$68,049 78
								68,049 78	
	-	Pro	Profit for the year 1866	. 1866				\$64,429 18	

ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 4.

Showing in Detail the Maintenance of Canal Expenses for the year 1866.

	BUSQUERANT	Subqueramma Division.	Lower juniata Division.	IUNIATA Hon.	UPPER DIV	UPPER JUNIATA DIVIBION.	WESTERN DIVISION.	To	Total.	Аморит.
	Repairs.	Enlargem't.	Repairs.	Enlargem't.	Repairs.	Enlargem't.	Repairs.	Repairs.	Enlargem't.	
Tools	\$3,182 32		\$774 36		\$ 284 18			\$4,240 86		\$4,240 86
Materials	6,610 00		91 19		22 20			5,723 78		6,723 78
Repairs, Houses	1,607 42	\$3,068 28	1,117 711,1	\$3,772 36		465 83		2,988 33	\$7,306 47	10,294 80
" Bridges	8,199 62	6,928 14	1,349 21	8,078 27	614 95	1,396 83		5,065 78	11,363 24	16,417 02
" Locks	18,804 71	11,969 54	7,655 27	5,367 68		671 21		22,834 10	8	40,832 58
Aqueducts	1,096 13	6,919 17	8,063 17	489 07		4,124 44	•	4,753 30	얹	16,286 98
ж Дишв	1,367 41		111	8,717 95		6,431 12		8,074 73	15,149 07	18,223 80
" Culverts	88	2,249 08	2,208	8,023 26				2,578 98	57	7,851 32
". Waste Wiers & Sluices	306 42	1,103 78	1,197	2,271 62	848 39	:::::::::::::::::::::::::::::::::::::::		1,851 46	22	5,226 76
8lope & Vertical Wall	5,702 46	6,470 05	146	2,030 94	16 28			96 198'9	Ş	14,366 96
" Canal Bed and Banks	16,864 11	8,809 58	8,790	6,517 90	1,861 92	***************************************		27,506 92	9,327 48	36,834 42
Watchmen	875 84		ಕ್ಷ				:	670 80		670 80
Boats and Flats, and Repairs of	2,817 67		1,783 26		108 71			4,709 53	***************************************	4,709 53
Rents and Furniture	172 89		135 46	***************************************	20 22			898		888
Stationery, Printing, and Office										
Expenses	1,113 46		708 55		88	***************************************		2,098 20	•	2,098 20
Taxes and Real Estate	1,268 02		408 22				162 22	2,415 04	***************************************	2,416 04
Superintendence	8,126 88		2,578 80		1,446 39	•••••••••••••••••••••••••••••••••••••••	17 01	7,168 08		7,168 08
Incidentals	1,498 83		102 84		602 02		1,544 32	4,348 01		4,348 01
Amounts	\$63,393 30	\$42,617 62	\$33,868 06	\$34,208 95	\$9,264 07	\$13,089 43	\$1,723 56	\$108,248 98	\$89,816 00	\$198,064 98
	-	1								

ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 5. Showing the Operating Expenses in each year from 1857 to 1866, inclusive.

	YEAR.	Labor and Watchmen.	Lock-Keepers.	Collectors and Weigh-Masters.	Stationery, Printing, Office Expenses, Renta, Furniture and Superintendence.	Taxes, Drawbacks, and Incidentals.	Totals.
<u> </u>	1857.—5 mos.	\$1,319 88	\$9,500 00	\$6,451 22	\$2,268 25	\$372 78	\$19,907 08
	1858	2,489 66	15,200 61	8,802 43	8,172 00	840 67	29,455 87
	1869		11,048 56	7,764 27	4,048 60	12,485 88	85,347 81
	1860	84 88	10,619 68	6,765 70	8,277 81	8,856 82	24,053 84
	1861,	1,183 25	9,552 46	5,772 98	4,241 89	6,256 78	26,007 86
	1862	1,872 47	9,281 21	5,566 89	8,433 67	8,777 12	28,881 86
	1863	1,796 26	9,766 74	6,792 48	8,618 12	87,987 84	58,961 39
	1864	2,914 91	12,319 86	7,025 21	5,605 57	44,056 94	71,922 49
	1865	1,385 40	8,707 92	4,784 99	4,504 66	8,872 88	28,205 85
	1866	2,865 70	11,882 56	6,526 99	5,896 42	9,251 88	85,878 00
!		\$14,761 91	\$107,779 66	\$64,753 11	\$39,561 99	\$125,757 99	\$352,614 55
.1							

ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 6.

Showing the Maintenance Expenses in detail from 1857 to 1866, inclusive. Also the total Ordinary Repair Expenses separately from the Enlargement Expenses.

Stationery, Printing, Office Expenses, Rents, Furniture and Superintendence.	4,500 00 8,112 14 7,183 97 5,508 89 4,230 40 6,450 59 9,595 53 10,285 65 9,624 88	74,646 28	41, 662 72 32,993 66	74,646 28
bas sreiW ess W secipils	800 00 804 67 11,602 29 11,863 61 8,728 68 4,869 23 4,269 37 4,688 68 5,476 76	29,776 47	6,670 48 23,104 99	29,776 47
Real Estate.	200 00 838 83 838 83 825 84 529 60 1,206 25 908 45 908 45 1,086 20 2,415 04	13,085 29	6,670 29 6,416 00	13,086 29
Slope and Vertical Wall.	600 00 866 61 1,695 62 7,350 77 3,176 09 2,432 97 1,025 08 4,606 89 16,516 93	62,886 91	22,884 63 30,002 28	62,886 91
.sisirətsM	3,284 29	8,284 29	3,284 20	8,284 29
Locks.	6,800 00 9,989 96 25,317 33 61,988 21 23,247 77 100,348 84 167,666 78 78,183 94 38,909 09	527,774 45	49,851 29 477,923 16	627,774 46
Incidentals.	629 69 1,101 62 3,429 91 1,771 56 3,819 90 2,462 90 4,404 20 20,270 67 4,348 01	41,737 57	23,270 67 18,466 90	41,737 57
Houses.	650 00 1,073 48 2,301 95 3,629 64 3,816 20 7,028 27 8,117 13 8,774 49 9,764 42 10,644 80	65,600 88	12,199 30 43,301 08	86,500 38
Dams.	18,183 02 30,216 00 6,896 10 7,864 30 9,829 92 32,133 36 9,882 49 4,988 13 15,652 81	154,749 92	29,050 14 125,699 78	154,749 92
Culverta.	200 00 566 83 360 23 1,929 87 3,003 64 1,131 09 695 75 2,142 90 2,142 46 8,151 32	20,214 09	6,184 91 15,029 18	20,214 09
Canal Bed and Banks.	10,000 00 17,865 62 35,581 89 14,895 91 16,74 42 21,804 14 80,970 63 87,924 86	291,184 85	183,271 08 107,913 77	201,184 85
Boats, Flats, Tools and Watchmen.	1,860 00 6,393 46 10,768 10 4,826 29 8,369 73 10,071 69 14,412 54 26,483 31 11,117 71 9,970 69	97,263 52	63,363 39 83,900 13	97,263 52
Bridges.	9.500 00 12.560 27 32.513 43 8,652 36 8,955 50 12,802 07 22,188 71 16,034 25 17,663 66	157,947 27	19,529 65 138,417 62	157,947 27
Aqueducts.	\$2,000 00 1,329 60 13,280 83 17,701 14 40,416 74 62,749 63 44,970 80 16,486 98	\$246,981 87	26,299 96 220,681 92	\$246,981 87
YEAR.	1857 1868 1860 1861 1862 1862 1864 1864		Ordn'y Repair Expenses Enlargement	Totals

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Showing the Expenses, Receipts, Profit or Loss on each Division from August 1st, 1857, to December 31st, 1866. ANNUAL REPORT, 1866. CANAL DEPARTMENT.—STATEMENT No. 7.

	*8		EXPENSES	NSES.		TOTAL	Torat		
	Mile	Repairs.	Enlargement. Maintenance.	Total Maintenance.	Operating.	Ехрензав.	Racerrit.	Propir.	Loss.
Earnings and Expenses on all Di- visions in 1857, from August lst		. \$23,511 10	\$29,771 92	\$68,283 02	\$19,907 08	\$78,190 10	\$92,433 60	\$19,248 40	
Susquehanna Division	9	822,175 46	506,882 19	828,507 65	182,878 89	1,011,886 64	1,682,044 42	670,667 88	•••••••••••••••••••••••••••••••••••••••
Lower Juniata Division	8	166,662 57	269,179 80	485,742 87	52,961 18	488,708 55	204,086 51	***************************************	\$284,618 04
Upper Juniata Division	31	61,907 68	237,106 47	209,014 15	28,172 83	827,186 98	88,666 90		298,580 08
Upper Western Division	8	13,900 61	8,571 72	17,472 88	6,008 15	28,480 48	86 099'9	,	16,929 50
Lower Western Division	23	67,734 84	66,278 30	183,012 64	62,686 42	195,699 06	78,744 86	***************************************	116,954 20
Incidental Beceipts			•				88,177 71	88,177 71	
Totals	27.6	\$655,791 76	\$665,791 76 \$1,111,240 40 \$1,707,082 16	\$1,767,082 16	\$362,614 56	\$362,614 56 \$2,119,646 71	\$2,180,693 88	\$778,078 99	\$712,081 82
								712,031 82	
		Total Pro	nft since Augus	Total Profit since August 1, 1857				\$61,047 17	

Statement No. 8.—Giving the whole Number of Structures on the Canal, the number of each kind rebuilt and now in good condition, and the number that have not been rebuilt.

	-ourals go b	Whole Kumber of tures of each kin the Canal	28461 88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
	IVISION.	Number not yet reduilt.	u
	UPPER JUNIATA DIVISION. Length, 37 mis., 300 ft. Lockage.	Number Rebuilt and in good condition.	8 4 2 5 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	UPPER . Length, 37	Whole Number of Structures.	4 88 88 84 148 84 14 14 14 14 14 14 14 14 14 14 14 14 14
	TVISION.	Number not yet rebuilt.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LOWER JUNIATA DIVISION. Length, 90 miles, 260 ft. Lockage.	Number Rebuilt and in good condition.	25 25 25 25 25 25 25 25 25 25 25 25 25 2
	LOWER Length, 90	Whole Number of Structures.	25 20 20 20 20 20 20 20 20 20 20 20 20 20
4/000	VIBION. Lockage.	Number not yet rebuilt.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2000	Subquehama Division. Length, 46 mls., 123 fl. Lockago.	Number Rebuilt and in good condition.	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Svsqve Length, 46	Whole Number of Structures.	22 22 22 22 2 2 2 2 2 2 2 2 2 2 2 2 2
			Aqueducts over Rivers. Aqueducts over Rivers. Rowing-Path River Bridges. Rowing-Path Bridges. Towing-Path Bridges. Dams on Rivers. Dams on Rivers. Lock-Fouse. Reportrore Office. Machine Shops. Carpenter Shops. Raportrore Office. Machine Shops. Carpenter Shops. Lock Edules. Reservoir Locks. Idle and Qurd Locks. Single Chamber. Locks not enlarged. Locks not enlarged. Locks not enlarged. Water-Ways around Locks.

REPORT OF THE AUDITOR.

Accounting Department, Penna. R. R. Co., Philadelphia, January 1, 1867.

To the President and Directors of the Pennsylvania Railroad Company.

Gentlemen:—I herewith submit Statements containing statistical information furnished from the records in this Department. They exhibit in detail the operations of the Transportation Department of the Pennsylvania Railroad, of the Philadelphia and Erie Railroad, and of the Canal owned by this Company, for the year ending December 31, 1866.

Very respectfully,

SAMUEL G. LEWIS,

Auditor.

Memorandum Exhibit of Earnings the Road for 18	and Ext	PENSES, ETC., OF
Total Earnings for 1866:		
From Transportation of Freights an	d Tolls	
from Individual Cars	_	\$11,709,293 59
" First Class Passang's (including I	T S Tor	3,245,800 06
from Individual Cars, "First Class Passeng's, (including U.S. Tax	·) _	- 139,721 25
" Adams' Express,	-9 -	- 374,369 22
" Carrying U. S. Mails,	_	- 82,730 00
" Gov't Troops, (includ'g	TT S Tros	560,945 44
" Rent from Workmen's and other	· Hongon	59,720 12
"Sundry Sources,	Houses	- 411,303 16
Sundry Sources,	-	- 411,505 10
		\$16,583,882 84
The Total Expenses are as follows, v	i	
Motive Power,	z.	
Ordinary \$9.01	9,122 47	
Ordinary, \$2,91	1,758 80	
New Locomotives, - 67		
	5,225 77	
New Engine Houses, &c., 12	1,724 59	#9 #0# 091 69
Con Justin a Thomas montation		\$3,797,831 63
Conducting Transportation,	2000 00	
	2,008 80	
New Build'gs & Extensions, 15	4,743 42	0.040 ==0.00
3.6 ·		3,646,752 22
Maintenance of Way,		•
Ordinary, 2,848	5,465 58	
Extension of Second Track		
and Siding, 250	0,965 09	0.000.100.05
35		3,096,430 67
Maintenance of Cars,		
Ordinary, *1,070),912 77	
New Freight Cars, - 693	3,766 37	
New Passenger Cars, 196	363 06	
		1,961,042 20
General Expenses,		
Ordinary,	-	288,852 55
Making Total Expenses,		12,790,909 27
Net Earnings to balance,		3,792,973 57
-		
	6	16,583,882 84

 $[\]boldsymbol{\ast}$ This includes \$147,414 68 expended in repairs of Cars in use on the Philadelphia and Eric Railroad.

And showing the following Transportation I	Balance Sheet:
To amount of Stock on hand, Jan'y 1, 1866, Do. Bills during 1866, Do. Pay Rolls during 1866,	\$1,462,555 44 10,625,193 35 5,140,490 73
	\$17,228,239 52
Cr.	
By amount of Expenditures in the following De	epartments, viz:
Motive Power,	\$3,797,831 63
Conducting Transportation,	3,646,752 22
Maintenance of Way,	3,096,430 67
Maintenance of Cars,	1,961,042 20
General Expenses,	288,852 55
Cost of Construction and Equipment of Road,	2,561,916 90
Individuals and Companies, (Gen'l Supt's Acc't)	•
Road and Shop Stock on hand, Jan'y 1, 1867,	1,378,404 10
•	\$ 17,228,239 52

The Receipts and Expenditures of the Transportation Department of the Philadelphia and Erie Railroad, by the Pennsylvania Railroad Company, (Lessee,) for the year 1866, are as follows:

RECEIPTS.

From	Freights and Tolls	on Ind	ividu	al Car	3,	\$1,744,299 13
u	Passengers, -	-	-	-	-	686,621 78
"	Expresses, -	-	-	-	-	26,941 43
"	United States Mail	s, -	-	-	-	18,501 96
"	Government Troops	s, -	-	-	-	48,103 13
"	Sundry Sources,	-	-	-	-	16,584 36
	Total Rece	ipts,	-	-	-	2,541,051 79
	Excess of I	Expens	es to 1	baland	ю,	278,661 54
		,				\$2,819,713 33

EXPENDITURES.

Conducting Transportation phia and Erie Railroad Motive Power, Maintenance of Way, - Maintenance of Cars, -		_	30	per c - - -	ent. to Philadel- \$1,500,999 28 682,947 62 624,245 02 11,521 41
Total Expe	nditu	res,	-		\$2,819,713 33
The details of the above a the Philadelphia and E Total Receipts,				_	•
Less Drawbacks and Over	char	ges refi	ınde	d,	28,902 29 \$2,512,149 50

·	MT A T	TO V	PENI	TMTT	næa		
,	/IAI	I E.A.	FENI	110.	res.		
Conducting Transports	ation	1,	\$	1,5 0	0,999	28	
Less 30 per cent. to P and Erie Railroad, \$		-					
Less Drawbacks and							
Overcharges,	28	,902	29			•	
_				76	1,641	09	
				_			\$739,358 19
Motive Power, -	-		-	-	-	_	682,947 62
Maintenance of Cars,	-		-	-	-	-	11,521 41
Maintenance of Way,	-		-	-	-	-	624,245 02
Workin	g E	xpe	nses,	-	-	_ ;	\$ 2,058,072 <u>24</u>

The Balance Sheet for the Philadelphia and Erie Railroad for 1866, is as follows, viz:

_	
- 1	7-
	/ K.

To amount o	f Stock on hand January 1, 1866,	\$481,502 23
Do.	Bills during 1866,	1,938,048 80
Do.	Pay Rolls during 1866,	1,424,819 32

\$3,844,370 35

CR.

CR.					
By amount of Expenditu	res in	the fe	ollowi	ng Dep	artments, viz:
Conducting Transportat	ion,	-	-	-	\$1,500,999 28
Motive Power,	-	-		-	682,947 62
Maintenance of Cars,	-		-	-	11,521 41
Maintenance of Way,	-	-	-	-	624,245 02
Road and Shop Stock on	hand	Janu	ary 1	, 1867,	449,224 41
Individuals and Compani	es,Ger	ı'l Sup	erinte	endent's	3
Account,	-	-	-	-	575,432 61
					\$3,844,370 35

Earnings and Expenses of the Main Line of Pennsylvania Canal for the year 1866, viz:

To amount of	Tolls on Lading,		-	\$242,609 48
\mathbf{Do}	do Boats,		-	25,729 48
\mathbf{Do}	do at Outlet Lo	ock, Columbi	a,	12,853 00
Do	do do	Middleto	wn,	1,221 63
Do	Bridge Tolls and	Ferriages,	-	5,443 15
\mathbf{Do}	from Miscellaneou	ıs Sources,	-	10,010 42
				\$297,867 16

7

By amount of Expenses in			
Maintenance of Canal Department,	-	-	\$198,064 98
Canal Transportation Department,	-	-	35,373 00
Total Expenses, Net Earnings to	- halance	-	233,437 98 64,429 18
Tree Euringe to	Darwin	-,	\$297,867 16

The amount charged to Extraordinary Repairs and Enlargement of the Canal during the year 1866, was \$89,816 00.

CANAL STATEMENT No. 1.

Showing in Detail the Expenses of Canal Department for the Year ending December 31, 1866.

			T	
HEADS OF ACCOUNTS.		NANCE OF	Canal Transportation.	TOTALS.
•	Repairs.	Enlargem't.	portation.	
Aqueducts, repairs of	\$4 753 80	\$11,532 68		\$16,285 98
Boats and Flats, and repairs of				4,709 53
Bridges, repairs of	6,063 78	11,353 24		16,417 02
Canal Bed and Banks, repairs of	27,506 94	9,327 48		86,834 42
Collectors			5,802 62	5.802 62
Culverts, repairs of		5,272 84		7,851 32
Dams, repairs of		15,149 07		18,223 80
Houses, repairs of				10,294 80
Incidentals		•••••	1 929 69	
Labor		•••••••	2,220 20	
Lock-Reepers		17.000 40	11,832 56	11.832 56
Locks, repairs of		17,995 43		40.832 53
Materials	0,120 10			5,723 78 464 97
Slope and Vertical Walls, repairs of				14.365 95
Stationery, Printing, and Office Expenses			1,986 21	
Anneelntendence	7.168 08		8,303 84	10.471 92
Superintendence	2.415 04	***************************************		2.415 04
Tools	4.240 86			4.240 86
Waste Weirs and Sluices, repairs of	1,851 46	3.375 30		5,226 76
Watchmen	670 80		145 50	815 80
Weigh-Masters			724 87	724 87
Drawbacks and Overcharges			827 50	827 50
Tax, United States Excise			8,194 61	3,194 61
State Tonnage		•••••••	4,299 53	4.299 53
_	\$108,248 98	\$89.816 00	\$35,373 00	
Totals	\$100,220 BO	108,248 98		***************************************
1		\$198,064 98	\$35,373 00	\$233,437 98
			·	

CANAL STATEMENT No. 2.

Showing in Detail the Earnings of Canal Department for the Year ending December 31, 1866.

FROM COLLECTOR'S OFFICE AT	AMOUNTS.
Columbia	\$25,604 2
Middletown	14,037 1
" Outlet Lock	1,221 6
Harrisburg	207,849 5
Clark's Ferry Bridge	3,970 4
Junction	19,200 4
Levistown	2,378 7
Huntingdon	9.727 7
Hollidaysburg	3,871 7
Sandry Sources	10,010 4
Total	\$297,867 1

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General Exhibit of Earnings and Expenses of the Pennsylvania Railroad Company, for the Year ending December 81st. ANNUAL REPORT, 1866. ACCOUNTING DEPARTMENT—STATEMENT No. 1.

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1866.	Dolls. Cts.	Dolls. Cts.		1866. BY AMOUNT OF EXPENSES IN	PASSENGER.	FREIGHT.	TOTALS.
TO AMOUNT OF EARNINGS FROM			Conducting Tra	Conducting Transportation, Passenger	\$983,898 28		
Freight at Stations including Tolls on In-		44 400 000	3	" Freight		\$2,508,110 52	49 400 000 00
ulvium Calb.		11,109,280 by	¥	Mew Buildings and Extensions	46,423 02	108,320 40	154,743 42
# F 100 F 10			Motive Power,	Motive Power, Passenger	632,668 76		
Enter Class Lasson Con.	190 701 06		3	Freight		2,286,453 71	9 010 199 47
Express			3	New Locomotives, \$671,758.80; Tools & Mach'ry. 85,225.77	227,095 87	529,889 20	756,984 57
Carrying United States Mails		,	3	Extension of Machine Shope and Engine Houses	36,517 38	25,207 21	121,724 59
GOVERNMENT LIGODS	## 0#8'000	10 100 100	Maintenance of	Maintenance of Cars, Passenger	309,852 91		•
200	K0 700 10	18 con'con***	¥	" Freight		761,059 86	17 610 010 1
7AQTFQ			3	" New Cars	196,363 06	693,766 37	890,129 43
			Maintenance of	Maintenance of Way, Passenger	853,639 62		
			:	" Freight		1,991,825 96	O 045 445 KG
			*	" Extension of Second Track and Sidings	75,289 53	175,675 58	250,965 09
Sundry Sources	411,303 16	471 009 90	General Expense	General Expenses, Passenger	86,665 77		288,862 66
			By amount of ne	By amount of net proceeds to balance	8,448,408 70	9,842,505 57	12,790,909 27 8,792,973 57
		16,583,882 84					\$16,683,882 84

Condensed Exhibit of Earnings and Expenses, together with Net Earnings for each month during the year. STATEMENT No. 2.—EARNINGS AND EXPENSES FOR 1866.

MONTHS	GROSS RABNINGS.	MXPHNSHS.	MET EARNINGS.
January	\$1,170,001 80	\$1,066,957 12	\$108,044 68
February	1,245,641 14	1,041,981 98	203,709316
March	1,281,190 86	1,184,552 68	146,687 68
April	1,285,644 10	1,058,864 57	226,779 58
May.	1,401,884 55	970,701 06	431,188 49
Jane	1,435,676 59	1,081,758 80	858,917 79
July	1,344,156 48	977,086 28	867,120 20
August.	1,495,475 67	956,425 02	539,050 65
September	1,613,143 88	1,190,421 76	422,721 57
October	1,586,362 57	1,087,829 79	546,032 78
November	1,430,184 89	1,181,087 28	299,147 61
December	1,297,521 86	1,143,892 93	153,628 48
Totals	\$16,583,882 84	\$12,790,909 27	\$8,792,978 57

STATEMENT No. 3.

GENERAL STATEMENT OF EARNINGS FOR THE YEAR 1866.

TOTALS.	\$11,709,203 59	\$11,709,293 59	83,345,800 08 134,731 25 314,780 23 81780 00 860,945 44	84,403,565 97	81.08T,008	411,308 16	84 11,028 SE	\$16,563,662 84
DECEMBER.	\$904,096 10	\$904,085 10	\$349,745 55 6,725 67 48,972 6,894,20 64,389 67	\$869,736 64	86,702 49	27,987 18	\$38,689 62	81,297,521 36
HOVEMBER.	\$1,093,472 29	\$1,092,472 29	\$277,646 13 11,246 10 14,890 00 16,894 15 83,689 22	\$294,464 60	83,078 11	40,169 89	848,348 00	\$1,430,184 89
OCTOBER.	\$1,162,898 78	\$1,162,399 78	\$308,875 46 13,546 18 27,2546 18 6,894 16 17,544 30	8374,087 16	\$1,892 46	28,984 17	\$46,876 63	81,588,362 57
arttabib.	£1,119,923 34	\$1,119,923 34	8330, 404 85 11,047 32 19,647 32 6,864 16 57,135 18	\$415,137 36	82,878 20	75,204 43	\$78,082 63	81,613,143 33
AUGUST.	8 526,713 9 9 11,725,710 87 81,119,925 34	\$1,123,210 87	8307,304 63 11,364 94 18,048 15 6,031 15 1,330 63	\$330,901.36	84,616 73	27,746 71	832,363 44	\$1,495,475 67 \$1,615,148 38
Juck.	\$942,733 49	\$912,788 49	\$266,786 72 15,004 23 17,006 6,884 16 77,406 07	\$384,062 03	\$5,918 39	11,442 57	\$17,360 96	81,344,156 46
JUNE.	\$1,066,460 62	\$1,066,460 62	\$260,331 74 11,318 00 24,000 6,894 28 25,595 19	\$:134,200 RO	83,829 56	31,185 61	\$35,015 17	\$1,245,641 14 \$1,281,180 86 \$1,285,614 10 \$1,401,854 65 \$1,435,676 59
KAY.	81,027,158 22 81,066,460 62	\$1,027,158 22	\$273,940 65 19,410 73 30,941 28 6,094 15 10,126 63	\$.141,345 47	84,706 78	29,674 09	\$33,580 86	\$1,401,884 65
APMIL.	\$859,007 60	\$359,007 60	\$301,748 F9 13,363 95 8,904 15 23,967 38	\$370,884 69	. 87,393 78	38,358 03	\$45,751 NI	\$1,285,614 10
MABOH.	8984,116 62	\$884,116 62	\$299,949.38 9,032.65 43,427.26 6,894.16 14,892.74	\$374,216 21	83 ,839 03	19,019 50	\$22,857 53	\$1,281,190 36
FEBRUARY.	\$6%,661 70	\$685,661 TO	\$210,621 92 5,687 45 55,487 15 6,491 15 244,441 91	8527,139 28	82,712 73	30,097 43	\$32,840 16	\$1,245,641 14
JANUARY.	\$812,054_96	\$842,054.96	\$223,943 21 7,639 03 37,910 68 6,844 15 2,603 30	\$278,390 37	\$7,122 86	42,433 61	\$19,556 47	\$1,170,001 80
CLASS.	Freight Barnings. Freight at Scations, includ.) hig Tolls on Individual Cars,	Total Freight Karnings, .	Pasenger Earnings. Pirst Class Pascongers. Admir dat Descongers. Admir da Cos. Kxpress. Covernment Troops. Government Troops.	Total Passenger Earnings, .	Miscollaneoue Karninge. Rents,	Sundry Sources,	Total Miscellancous Earn'gs.	Total Ear'gs from all sources, \$1,170

STATEMENT No. 4.—CONDENSED EXHIBIT OF MONTHLY EXPENSES.

CONDUCTING TRANSPORTATION, MOTIVE POWER, MAINTENANCE OF CARS, MAINTENANCE OF WAY, AND GENERAL EXPENSES FOR 1866.

1968.	CONDUCTII	CONDUCTING TRANSPORTA	ORTATION.	OM .	MOTIVE POWER	æ	HAINT	MAINTENANCE OF CARS.	CARS.	KAIR'	MAINTENANCE OF WAY.	WAY.	GENE	General expenses.	COMO.	
MONTE.	Passengor.	Freight.	Total.	Passenger.	Freight.	Total.	Passenger.	Freight.	Total.	Passenger.	Freight.	Total.	Passenger.	Freight.	Total	TOTALS.
January, .	\$15,492 42	\$254,235 22	\$329,727 64	869,239 85	\$230,332 14	\$299,571 99	\$6,139 52	\$97,058 90	\$105,197 42	\$93,221 92	\$217,517 89	\$310,739 74	87,116 10	16,604 28	\$23,730 88	\$1,066,967 13
February, .	84,284 06	190,967 89	275,353 44	56,305 84	190,231 74	246,537 58	21,048 21	64,125 19	86,173 40	72,429 56	169,002 29	241,431 85	8,697 84	8,627 11	12,824 46	27 611,098
March,	25,117 42	214,867 50	\$10,644 92	28 812,24	194,895 49	247,174 42	27,027 78	65,421 49	92,452 27	82,965 18	188,585 29	276,550 42	1,955 51	18,562 88	26,518 39	863,540 43
April, · · ·	75,191 73	193,792 04	968,983 76	10 651,69	175,754 65	225,488 72	80,384 18	62,845 50	93, 229 68	82,371.83	192,199 74	274,571 07	4,612 28	10,761 85	15,874 08	877,662 81
Мау,	82,078 65	192,018 61	274,097 16	53,655 65	165,128 86	218,784 41	25,945 78	48,841 57	72,787 35	63,294 66	147,087 58	210,982 24	8,851 28	8,986 36	12,837 64	189,488 80
June,	96,133 33	253,536 80	348,670 13	49,719 12	194,796 77	244,515 89	87,244 81	£7 0£9,63	96,885 55	68,242 71	135,899 60	194,142 81	4,899 81	11,432 86	16,332 66	900,546 54
July,	89,675 61	214,685 24	304,360 85	43,957 27	177,639 85	21,487 05	35,097 44	52,178 57	87,271 01	86 617,13	120,679 99	172,390 97	8,088 54	7,206 60	10,295 14	795,824 03
August,	71,275 35	188,797 01	260,072 36	50,362 39	183,521 11	233,883 50	90,788 99	68,073 08	18,862 07	57,615 93	184,487 02	192,053 15	8,102 51	7, 239 17	10,341 68	115,212 16
Beptember, .	10,669 42	191,793 24	263,462 68	45,669 94	169,465 92	215,135 86	22,543 91	60,311 68	83,835 59	75,214 92	175,501 50	250,716 42	5,048 01	11,778 70	16,826 71	827,997 34
October,	75,516 68	199,597 88	275,114 56	51,896 27	188,861 55	240,746 82	729,193 37	64,877 21	94,069 58	70,740 68	165,061 62	235,802 30	8,115 28	7,268 99	10,384 27	866,117 68
November, .	82,463 33	211,312 61	293,796 94	50,258 55	186,410 87	236,669 43	24,746 87	66,633 20	90,380 07	76,907 18	119,450 18	256,357 86	11,786 67	50,835 57	72,623 M	949,825 03
December, .	86,319 40	202,506 98	288,836 38	59,587 05	229,524 76	289,111 81	\$1,694.05	62,054 78	93,748 78	68,915 62	160,803 18	229,718 75	18,882 49	42,892 47	61,274.96	962,680 68
Totals, -	983,895 28	2,508,110 52	3,492,008 80	632,668 76	2,286,453 71	2,919,122 47	309,852 91	761,059 86	1,070,913 77	853,639 62	1,991,826 96	2,845,465 58	86,656 17	202,196 78	288,852 55	10,616,362 17
ferred to expenses,	46,423 02	108,320 40	154,743 42	263,612 75	615,096 41	878,709 16	196,363 06	693,766 37	890,129 43	75,289 58	175,675 56	250,906 09				2,174,547 10
Totals, .	Totals, . 1,030,321 30 2,616,430 92 3,646,	2,616,430 92	3,646,752 22	15 182,363	2,901,550 12	3,797,831 63		506,215 97 1,454,836 23	1,961,042 20	928,929 15	2,167,501 52	3,096,430 67	86,655.77	202,196 78	288,862 55	12,790,909 27
								1								

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ANNUAL REPORT, 1866.

ACCOUNTING DEPARTMENT—STATEMENT No. 5.

Expenses of the Transportation Department, Pennsylvania Railroad Company, for the year ending December 31st, 1866.

SENTINGEN BY SERVERY	CONDUCTING TRANSPORTA-	ANSPORTA.	MUTIVE POWER.	POWEB.	MAINTENANCE OF CARS.	CE OF CARS.	MAINTENA	MAINTENANCE OF WAY.	GENERAL ENPENSEE	N. PENBEE.	TOTALS.
	Passenger.	Freight.	Passenger.	Freight.	Passenger.	Freight.	Развепцег.	Freight.	Passenger.	Freight.	
A discontinued	48.213 90								\$1,767 79	\$4,101 52	\$14,828 92
Agents	24,234 16	42,280 96			-				1.640 70	3.828 30	5,469 00
Attendants. Baggage Masters	47,244 97					P25 878 61		6 83 705 11			119.578 72
Balinst Brakemen	54,907 82	405,827 50				106.297 64	106,297 64	248,027 69			460,735 32 354,325 13
	25,567 86	40,111 46		ć	28 337 45	419,454,04		\$19.454_04			66,679 32 27,791 49
Car Shops and Sheds, repairs of	4.434 33										35,064 58
Cars, cleaning and inspecting	62,187 09	ō :			2,050 31	4,784 05					6,834 36
Cars, repairs of Freight.					001177 07	724,484 96					294,177 97
Cars, repairs of Passenger and Baggage					11,807		2,475 40	6,775 94			8,251 34
Chairs	90 131 95	128 805 58					29,574 47	69,007 13. 5,300 80	22,022 78 51,286	51,286 45	248,918 66
Clerks	101,67		\$81,774 75	\$81,774 75 \$459,253 59							199.595 06
Conductors Cotton Waste.	DS, 388, 34	5,880 31 143,080 08	8,725 27				72 906 30	170.114 72			36,845 42 243,021 02
Cross Ties. Dispatchers.	18,345 74	69,410 66									187,028 02
Drawbacks and Overcharges	2,269 25	11 801,481	94,555 77	348,837 26							443,393 03
Engine Houses, Machine Shop, and Turn-Tables, repairs of				129,186 40							184,552 02
Expenses at Stations, except Labor	10,613 63	4,228 48					<u>: :</u>				4,228
Expenses on Property	108 698 31	89 000 4K					2,867	as Osoto	AS 0.00 to		208,634 76
Foremen and Watch Houses, repairs of	Condimen						0,919 60	16,145 81			50,680 50,680 51
# ELOSE									•		

		 		
1,610 75 0,478 53 9,745 43 13,003 81 250,272 18 917,098 50	184,274 44 211,750 52 24,667 58 10128 08 28,285 20 607,806 75 144,524 11 88,118 03	12,724 98 92,724 98 92,724 98 92,725 97 100,676 20 768 44 182,868 84 12,966 86 65,200 00	84,20 53 86,895 85 196,641 02 61,367 86 19,222 43 43,624 21 45,282 64 82,439 40 271,856 98	10,878 24 20,484 13 85,702 68 77,110 26 14,750 91 130,968 38 77,251 10 7,570 87 6,870 45
1,127 62		8,657 49 6,128 96 637 91 45,640 00	7,817 69	<i>•</i>
483 23		3,667 49 2,198 12 230 53 19,560 00	3,350 45	
10.459 97 642.339 01		3,249 60 127,657 98 9,009 70	23.976 34 2,366 92 24.831 34 13,455 71	14,338 89 10,325 63 23,836 11
7.054 27 275.309 58		1,392 65 54,710 56 3,887 07 4,854 64	10,275 13 1,014 39 10,641 98 5,766 72	6,146 24 4,425 28 10,216 60
747 80 1,223 61				10,366 00
820 27 324 35				4,412 66
8,775 35 22,859 27	148,225 36 19.790 66 721,341 25	76,632 95	6,340 66 30,536 94 37,608 60	7,615 27
3.760 Kg 9,503 69	63,525 16 8,485 65 176,464 60	. 16,143 02	2,932 23 13,087 27 7,674 14	20,432 46
2,041 08. 241 80. 89,043 01	103,057 76. 11,165 28. 3,355 64.	69,789 87.	16,006 34 100,706 72 18,126 71 18,126 71 23,551 67 15,925 64	47,620 36 4,922 91 3,485 16
4,437 45 9,503 63 36,857 80	21,217 60 13,513 80 6,773 49 8,713 03	26,143 13	20,977 13 95,934 30 7,767 83 8,938 83 107,051 44	6.881 66 23,716 20 29,600 64 3,302 60 2,877 96 3,385 20
Fuel and Light. Fuel at Stations. Fuel for Chra. Fuel for Sorse, at Engine House and Shope. The department of the Christops. The chartest of the Christops.	Labor at Stations. Laborers. Light at Stations. Light for Cars. Locomotive Furniture and Fixtures. Locomotives, repuirs of Locomotives, repuirs of	Mail Expenses— Office Expenses— Office Expenses Offi, Tallow, Sponge, Wod, &c Powelton Estake, Michelphin. Road Bed, repairs of,—"! about". Road Bed, repairs of,—"! about". Sainties of President & cohort Orenesi Officers. Shows and Ice, removing	Spikes. Stationery and Printing. Stationery and Printing. Supervisors. Supervisors. Switches. Switches. Switches. Taxlow Tax on Depots. Tax, United States Exciso.	Takes on Real Estate for Road Thares on Real Estate for Road Teaming Telegraph, raints of Tolis graph, raints of Tolis, Baid Bagle Valley R. R. Tolis, Elbensburg and Uresson R. R. Tolis, Millin and Centre County Railway Tolis, Almounts carried forward

STATEMENT No. 5—Continued.

HEADS OF ACCOUNTS.	CONDUCTING TRANSPORTA- TION.	TION.	MOTIVE POWER.	POWER.	MAINTENAN	MAINTENANCE OF CARS.	MAINTENA	MAINTENANCE OF WAT.	GENEBAL EXPENSES	EXPENSES.	TOTALS.
	Passenger.	Freight.	Pasenger.	Freight.	Passenger.	Freight	Равзердег.	Freight.	Равспрет.	Freight.	
ht forward											
Tolls, Philadelphia City Railroad		7.652 30	7.652 30								7,652 30
ton and Balt, R. R.		21.012 81									21.012 81
noffeld R 18	4 3 3 7										19.849 02
bile P. P. Cule Modie	00.0									•	18 114 62
dennie P. P.	7 407 60										89.905 64
STATE OF THE TAX STATE OF THE S	1,1						143 341 80	334 463 01			477,804 34
			4 202 64			07 of 01			93.870.53		148,742,88
Stations renaire of			25,000 23				20060	20 2 2620			86.634 07
The do do synames of			8.137.86								27,126 25
Wood and Labor preparing			22,148 69					90 733 65			112,882 34
9	98 138 30		Î								104,285 63
oad.		_	10.280 80								10,280 80
Tolls, Pittsburg, Columbus and Club, Line		48,449 88	48,449 88								48,449 88
8, &c.	46,423 02	_						:			154,743 42
Track and Sidings		_					75,289 53	_			250,965 09
e Shops & Eng. Houses.	_		36,517 38					.:			121,724 59
New Locomotives			201 527 64								671.758 80
			25.567 73		59, 658 04						85,225 77
Now Wreight Cars.				- 3		3 760		693.766.37			693,766 87
New Pusenger Curs. 196,363 06											196,363 06
			•								20 000 000
Totals 1,030,321 30 \$2,616,430 92	. 1,030,321 30	\$2,616,430 92		896,281 51 2,901,550 12 606,215 97 1,454,826 23 928,929 16 2,167,501 52 86,655 77 202,196 78 \$12,790,909 27	506,215 97	1,454,826 23	1 928,929 15	2,167,501 52	86,655 77	202,196 78	\$12,790,909

RECAPITULATION

	PASSENGER.	FREIGHT.	TOTALS.
Conducting Transportation Motive Power Maintenance of Cars Maintenance of Way General Expenses.	\$1,020.321 30 \$96.281 51 516.215 97 628,920 15 86,655 77	\$2,616,430 92 2,901,550 12 1,454,826 23 2,167,601 62 202,198 78	\$3 646,752 22 3,797,831 63 1,961,042 20 3,696,439 67 288,862 55
Total	\$:,418,403 70	\$9,342,505 57	\$1,448,403 70 \$9,342,506 57 \$12,790,009 27

ANNUAL REPORT, 1866.

STATEMENT No. 6.

EXPENSES OF ENGINES, PHILADELPHIA DIVISION.

AVERAGE COST PE	B 100 MII	Æ8.		
Class.	Repairs.	Fuel.	Stores.	Total.
Passenger Engines	7.88	5.50	1.84	14.67
Distributing Engines Freight Engines	11.91 11.88	6.85 8.84	2.81 2.81	20.57 23.08
· ·	11.88	8.84	2.31	1

STATEMENT No. 7. EXPENSES OF ENGINES, MIDDLE DIVISION.

AVERAGE COST PE	R 100 MIL	E8.		
Class.	Repairs.	Fuel.	Stores.	TOTAL
Passenger Engines	11.42	5.62	1.56	18.60
Distributing Engines	6.37	10.00	1.96	18.83
Preight Engines	10.97	9.81	2.12	22.90

STATEMENT No. 7½. EXPENSES OF ENGINES, PITTSBURGH DIVISION.

AVERAGE COST PE	R 100 MIL	es.		
CLASS.	Repairs.	Fuel.	Stores.	Total
Passenger Engines	10.24	6.44	2.01	18.69
Distributing Engines	10.42	7.91	2.75	21.08
Freight Engines	16.31	10.90	8.20	80.41

ANNUAL REPORT, 1866.

ACCOUNTING DEPARTMENT .- STATEMENTS Nos. 8 and 11.

Abstract of Passengers and Miles traveled on whole line of Road and Branches for the year.

1866.	Individual Passengers.	Miles Traveled.	Average Distance.	Equivalent Through Passengers.
First Class Passengers	2,008,595	96,948,778		273,095
Emigrant Passengers	80,895	10,198,770	 	28,729
Coupon Passengers	515,846	4,562,158		12,851
Troops	118,732	27,875,854		77,115
	2,673,568	139,085,550	52	891,790

ANNUAL REPORT, 1866.

ACCOUNTING DEPARTMENT.—STATEMENT No. 12.

Freight Earnings of the Pennsylvania Railroad, for the year 1866.

	TOTALS.
Philadelphia to Pittsburgh	\$1,489,160 21
Philadelphia to Way Stations	529,149 81
Way Stations to Philadelphia	3,297,208 65
Pittsburgh to Philadelphia:	2,260,638 04
Pittsburgh to Baltimore	278,904 04
Pittsburgh to Way Stations	879,861 78
Way Stations to Pittsburgh	926,745 80
Baltimore to Pittsburgh	160,919 53
Local—Eastward	1,539,999 85
Local—Westward	346,706 38
Tot Freight Earnings	\$11,709,293 59

Information from Record Books, Accounting Department.

Tons of through freight, Eastward	Mileage of through freight, East-	. 113,319,390
Tons of through freight, West	Mileage of through freight, West-	
ward 164,250	ward	58,801,81 9
Tons of local freight, Rastward. 1,841,804	Mileage of local freight, Eastward.	276,026,740
Tons of local freight, Westward. 864,271	Mileage of local freight, Westward	64,954,232
Total Tons Moved 3,186,359	Total Mileage	513,102,181

ANNUAL REPORT, 1866.

ACCOUNTING DEPARTMENT—STATEMENT No. 15.

Through Freight and Union Line Combined, for the year 1866.

Agricultural Implements.		Ритановон	PHILADELPHIA
Agricultural Implements.	LIST OF ARTICLES.	To	TO
Agricultural Productions. 7,146,646 5,131,555 Boots Shoes, Hats, &c. 72 882 7,224,558 Boots Shoes, Hats, &c. 72 882 7,224,558 Boots and Stationery. 376,021 2,916,709 Butter and Eggs. 17,669,000 Brown Sheetings and Bagging. 36,027 4,781,833 Corriages. 152,000 775,572 Corriages. 152,000 775,572 Corriages. 152,000 775,572 Corriages. 152,000 775,573 Corriages. 152,000 775,573 Confectionery and Foreign Fruits. 88,205,003 75,504 Confectionery and Foreign Fruits. 89,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 99,205,003 75,410 Confectionery and Foreign Fruits. 90,103,13 75,410 Corporationers. 90,103,103,103,103,103,103,103,103,103,10	•	PHILADELPHIA.	Pittsburge.
Agricultural Productions. 7,146,646 5,131,555 Boots Shoes, Hats, &c. 72 882 7,224,558 Boots Shoes, Hats, &c. 72 882 7,224,558 Boots and Stationery. 376,021 2,916,709 Butter and Eggs. 17,669,000 Brown Sheetings and Bagging. 36,027 4,781,833 Corriages. 152,000 775,572 Corriages. 152,000 775,572 Corriages. 152,000 775,572 Corriages. 152,000 775,573 Corriages. 152,000 775,573 Confectionery and Foreign Fruits. 88,205,003 75,504 Confectionery and Foreign Fruits. 89,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 98,205,003 75,410 Confectionery and Foreign Fruits. 99,205,003 75,410 Confectionery and Foreign Fruits. 90,103,13 75,410 Corporationers. 90,103,103,103,103,103,103,103,103,103,10	Agricultural Implements.	448 719	282.047
Bark and Sumac	Agricultural Productions		
Books and Stationery	Bark and Sumac	13,872	64,051
Butter and Eggs	Boots, Shoes, Hats, &c		7,212,458
Brown Sheetings and Bagging. 36,027 4,751,532 Cedarware. 61,209 775,532 Cedarware. 61,209 888,468 Coal Confectionery and Foreign Fruits. 68,103 3,554,604 Coal, Anthractic. 75,410 Coal, Anthractic. 75,410 Coal, Anthractic. 22,299,762 242,886 Coal Coffee. 28,708 5,707,101 Cotton. 22,299,762 242,886 Copper, Tin and Lead. 501,531 6,340,122 Dry Goods. 3,348,576 77,740,077 Dryngs, Medicines and Dye Stuffs. 3,010,871 18,40,277 Earthenware. 34,402 2,524,807 Empty Barrels. 70,7921,568 Fresh Meats, Poultry and Fish. 1,652,387 Flour. 107,921,568 Feathers, Furs and Skins. 902,065 281,025 Fresh Meats, Grand Oil Cloth. 719,869 Green and Dried Fruits. 6,650,369 4,614,101 Grass and other Seeds. 4511,858 863,404 Grand of all kinds. 55,206,229 17,220 Grocories, (exopt Coffee). 3,373,103 55,166,018 Grand of all kinds. 55,206,229 17,220 Grocories, (exopt Coffee). 3,373,103 55,166,018 Hardware. 1,163,474 42,575 6,108 Hardware. 1,163,474 2,247,331 Hon, Diloms and Fig. 359,445 512,965 Hon, Railroad. 10,333 91,293,411 Hon, Rolled, hammered, &c. 10,333 91,293,411 Hon, Rolled, hammered, &c. 10,333 91,293,411 Hon, Rolled, hammered, &c. 10,353 91,293,41 Hon, Blooms and Fig. 359,445 512,965 Hardware. 1,163,474 2,247,331 Hon, Blooms and Placter. 10,353 91,293,51 Hon, Railroad. 10,353 93,445 Hon, Railroad	Books and Stationery		2,916,709
Carriages 152,500 715,373 88,486 Confectionery and Foreign Fruits 63,163 3,553,044 Coal Oil 89,205,503 75,410 Coal, Anthracito 29,299,52 21,838 Coffice 8,707,101 501,631 6,707,101 Coffice 9,99,752 21,838 6,707,101 6,707,101 10,702,138 6,707,101 10,702,138 6,707,101 10,702,138 6,707,101 10,702,138 6,707,101 10,702,138 6,707,107 10,702,138 6,707,107 10,702,138 6,707,107 11,83,45,76 7,740,077 27,740,077 27,838 6,707,107 11,83,45,76 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 7,740,077 27,938 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098 2,741,098	Rown Sheetings and Ragging		4 751.658
Cedarware	Carriages		775,372
Coal Oil. 89,205,603 75,410 Coal, Inthractic. 75,410 75,410 Coffee. 8,708 5,707,101 Cotton. 29,299,762 242,886 Copper, Tin and Lead 501,631 6,340,123 Dry Goods. 3,348,576 77,740,077 Dry Goods. 34,402 2,321,800 Empty Barrels. 62,700 1,529,287 Featheavere. 34,402 2,321,800 Fresh Meats, Poultry and Fish 107,921,568 Feathers, Furs and Skine. 992,065 281,022 Frenthers, Furs and Skine. 192,046 240,002 Fresh Meats, Poultry and Fish 1,182,002 2,023,713 Glass and Glassware. 5,81,022 2,231,203 Grain and Gli Cloth. 1,182,002 2,023,713 Grain and Gli Cloth. 1,182,002 2,003,713 Grain and	Cedarware	81,298	888,468
Coal, Anthractic. 75,410 Coal, Bitminious 8,708 5,707,100 Coffee. 8,708 501,531 6,340,123 Copper, Tin and Lead 501,631 6,340,123 18,248,217 Dry Goods 3,348,576 7,740,077 18,249,217 Dry Goods 3,402 2,321,809 2,2700 2,158,695 Empty Barrels 62,700 2,158,695 26,700 2,158,695 Fresh Meats, Poultry and Fish 1,652,387 17,9866 591,602 2,158,695 Freathers, Furs and Skins 992,865 291,022 7,179,866 291,022 Fouriture and oil Cloth 719,866 594,938 6,844,938 2,625,713 Glass and Glassware 5,581,029 2,625,713 2,625,713 2,645,838 Grass and other Seeds 4,511,858 863,403 1,511,858 863,493 1,722 Grocaries, (except Coffee) 8,373,193 55,166,018 1,722 1,722 1,722 1,722 1,722 1,722 1,722 1,722 1,722 1,722<	Confectionery and Foreign Fruits	68,163	8,558,044
Coal, Bituminous 8,708 5,707,101 Cotton 29,299,752 242,886 Copper, Tin and Lead 501,531 6,340,125 Dry Goods 3,348,576 17,740,077 Dry Goods 3,348,576 17,740,077 Dry Goods 3,402 18,242,17 Earthenware 34,402 2,524,800 Empty Barrels 62,700 2,188,695 Fresh Meste, Youltry and Fish 107,927,5698 Fresh Meste, Youltry and Fish 107,927,5698 Foeathers, Furs and Skins 992,665 281,023 Feathers, Furs and Skins 992,665 281,023 Foeathers, Furs and Oli Coth 719,866 5,946,983 Furniture and Oli Coth 719,866 5,946,983 Green and Dried Fruits 6,650,893 4,161,011 Green and Oli Coth 719,866 5,946,983 Grain of all kinds 53,205,229 11,225,575 Green and Dried Fruits 6,650,893 4,161,011 Grain of all kinds 53,233,311 53,166,018 Grain of all kinds<	Coal Anthroite	89,205,503	75.410
Coffee 8,707,100 20,209,762 5,707,101 Copper, Tin and Lead 501,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 601,531 6,340,122 602,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 261,700 2,158,695 281,002 2,158,695 281,002 2,158,695 281,002 2,158,695 281,002 2,158,695 281,002 281,002 281,002 281,002 281,002 281,002	Coal. Rithminous	***************************************	10,410
Copper, Tin and Lead. 501/531 6340/125 Dry Goods. 3.348.576 17.740,077 Drugs, Medicines and Dye Stuffs. 3,010,871 17.740,077 Drugs, Medicines and Dye Stuffs. 30,10,871 17.242,2324,809 Empty Barrels. 62,700 2,188,695 Fresh Meats, Poultry and Fish. 107,921,598 Feathers, Furs and Skine. 902,065 281,025 Feurniture and Oil Cloth. 718,806 5,914,933 Glass and Glassware. 5,810,025 2,625,712 Green and Dried Fruits 6,680,893 660,025 Grass and other Seeds. 4511,858 863,404 Grass and Other Seeds. 4511,858 863,404 Graceries, (except Coffee). 3,373,113 55,166,018 Guano and Phosphate of Lime. 888,403 13,51,695 Hiddes and Hair 71,79 300,619 Hemp and Corlage 1,173,474 2,247,831 Iron, Blooms and Pig. 359,445 10,333,912 45,283,211 Iron, Baliroad 503,163 1,113,012 11,100,112	Coffee	8,708	5,707.101
Dry Goods		29,299,752	
Earthenware	Copper, Tin and Lead		
Earthenware	Druge Mudicines and Dre Staffs		
Empty Barrels 62,700 2,188,695 Fresh Meats, Poultry and Fish 1,682,387 Flour 107,921,568 231,023 Feathers, Furs and Skins 992,965 231,023 Furniture and Oil Cloth 719,968 5,943,938 Gress and Dried Fruits 6,686,803 4,611,618 Gresn and Dried Fruits 6,686,803 4,611,618 Grain of all kinds 53,295,229 17,220 Groceries, (except Coffee) 3,373,123 55,166,018 Guano and Phosphate of Lime 425,875 6,180 Hardware 888,403 13,551,959 Hides and Hair 741,799 30,0619 Hemp and Corlage 1,103,471 2,247,831 Iron, pled, hammered, &c. 10,333,912 45,283,211 Iron, Blooms and Pig. 359,445 12,998 Iron, Rallroad 503,163 1,113,012 Iron, Rallroad 10,333,912 45,283,211 Iron, Blooms and Pig. 359,445 103,618 Iron, Rallroad 10,661,000 66,000	Earthenware		
Fresh Meats, Poultry and Fish. 1.652_387 107,921_568	Empty Barrels		
Flour	Fresh Meats, Poultry and Fish	1.652,387	
Furniture and Oil Cloth. 719,806 5,946,932 6,055,712 Green and Dried Fruits 6,680,893 4,161,011 Grass and other Seeds. 4,511,558 653,949 17,220 Grocories, (except Coffee) 3,373,1193 653,949 17,220 Grocories, (except Coffee) 3,373,1193 653,949 17,220 Grocories, (except Coffee) 3,373,1193 653,640 1840 1840 1840 1840 1840 1840 1840 18	Flour		
Glass and Glassware. 5,881,029 2,625,712 Green and Dried Fruits 6,686,893 4,161,011 Grass and other Seeds 4,511,858 865,404 Grain of all kinds 53,295,229 17,203 Graories, (except Coffee) 3,373,193 55,166,303 Graories, (except Coffee) 3,373,193 55,166,303 Graories, (except Coffee) 425,875 6,180 Graories, (except Coffee) 741,789 300,619 Hardware 888,403 13,551,859 Hides and Hair 741,789 300,619 Hemp and Cordage 1,163,474 2,247,831 Iron, Blooms and Pig 359,445 512,965 Iron, Blooms and Pig 359,445 512,965 Iron, Blooms and Pig 359,445 512,965 Iron for 41,140 13,061,800 Iron ore 41,140 13,061,800 Live Stock 100,861,000 66,000 Leather 2,244,388 1,230,471 Lumber and Timber 20,093,085 77,590 Machinery and Castings 3,877,808 17,228,839 Marketing 357,804 4,331,875 Marketing 126,601 4,331,875 Marketing 16,358 68,890 Miscollaneous 2,693,668 1,864,112 Miscollaneous 2,693,668 1,864,11	Feathers, Furs and Skins		
Green and Dried Fruits 6.686,893 4.161,011 Grass and other Seeds 53,295,229 17,220 Grocories, (except Coffee) 3,373,119 53,295,229 17,220 Grocories, (except Coffee) 3,373,119 55,168,018 6,180 Guano and Phosphate of Lime 425,875 6,180 1,163,474 2,247,351 Hides and Hiair 741,779 300,619 1,163,474 2,247,331 1700, rolled, hammered, &c 10,333,912 45,283,211 1700, rolled, hammered, &c 113,061 503,163 1,113,012 1700, rolled, Alled, All	Glass and Glassware		2 625.712
Grass and other Seeds. 4 511,558 585,404 Grain of all kinds. 53,295,229 17,220 Grocories, (except Coffee). 3,373,113 55,166,018 Guano and Phosphate of Lime. 425,875 6,180 Hardware. 888,403 13,551,959 Hides and Hair. 741,779 300,619 Hemp and Cordage. 1,163,474 2,247,331 Iron, polled, hammered, &c. 10,333,912 45,283,211 Iron, Blooms and Pig. 359,445 512,963 Iron, Blooms and Pig. 359,445 512,963 Iron, Blooms and Pig. 358,445 13,061,800 Iron Railroad. 503,163 1,113,012 Iron Railroad. 503,163 1,113,061 Iron Railroad. 100,861,000 56,000 Live Stock 100,861,000 56,000 Leather. 2,244,388 1,820,971 Live Stock 100,861,000 56,000 Leather. 2,244,388 1,820,971 Lumber and Taillow 10,986,000 56,000 L	Green and Dried Fruits		4,161,011
Groceries, (except Coffee) 3,373,193 425,566,0186 Guano and Phosphate of Lime 425,575 6,180 Hardware 888,403 13,551,959 Hides and Hair. 741,73 300,619 1,163,474 2,247,831 Iron, rolled, hammered, & 10,333,912 45,283,211 Iron, rolled, hammered, & 10,333,912 45,283,211 Iron, polled, hammered, & 10,333,912 45,283,211 Iron, rolled, hammered, & 10,333,912 45,283,211 Iron, Blooms and Pfg. 359,445 512,995 Iron, Rallroad. 503,163 1,113,012 Iron Ore 41,140 13,051,800 662,304 Live Stock 100,861,000 662,304 Iron Ore 2,244,388 1,820,971 Lard, Lard Oil and Tailow 10,190,512 46,410 Il. Lumber and Timber 20,009,055 77,590 Machinery and Castings 3,877,808 17,229,839 Markle and Cement 125,661 4,331,575 Machinery and Castings 613,558 68,890 Marketing 10,190,190,190,190,190,190,190,190,190,1	Grass and other Seeds		865,404
Guano and Phosphate of Lime 425,875 6,180 Hardware 888,403 13,551,959 Hides and Hair 741,789 300,619 Iron, polled, hammered, &c 10,333,912 45,283,211 Iron, Blooms and Pig 359,445 512,965 Iron, Blooms and Pig 359,445 512,965 Iron Relighted 603,163 1,113,012 Iron Ore 41,140 13,061,800 Live Stock 100,861,000 66,000 Leather 2,244,388 18,20,971 Lard, Lard Oil and Tailow 176,199,512 46,471 Lumber and Timber 20,093,085 77,589 Machinery and Castings 37,798 17,278,839 Marbile and Cement 126,661 4,331,875 Marketing 613,353 68,890 Miscollaneous 2,686,881 1,864,114 Nails and Spikes 1,134,44 435,376 Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 1,897,837 2,418,875 Paper and Rags	Grain of all kinds	53,295.229	17,220
Hardware	Grocories, (except Coffee)	8,373.193	55,166,018
Hides and Hair	Hardware	888 403	13.551.959
Hemp and Cordage	Hides and Hair.		300,619
Iron, Blooms and Pig. 359,445 512,998 1707, Baliroad. 503,163 1,113,012 1707 0708 11,113,012 13,051,800 13,051,800 12,051,800 10,051,000 12,051,00	Hemp and Cordage	1.163.474	2,247,831
Iron Ore	Iron, rolled, hammered, &c	10,333.912	45,283,211
Iron Ore	Iron, Blooms and Pig		1 119 019
Lime and Plaster	Iron Ore		13.051.800
Live Stock 100,861,000 56,000 Leathor 2.244,388 1,820,971 Lard, Lard Oil and Tallow 10,199,512 46,40 Machinery and Castings 3,877,808 17,259,89 Marble and Cement 125,601 4,331,875 Malt and Malt Liquers 613,558 68,890 Marketing 2,593,668 1,856,112 Nails and Spikes 113,644 405,576 Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 869,229 Paper and Rags 1,807,837 2,418,876 Powder 360 1,125,624 3,723,477 Oyters 300 1,018,373 2,418,876 Salt 4,515 5,460,294 Salt 993,355 4,334,786 Straw Boards 993,355 4,334,786 Salt Meats and Fish 50,522,039 4,334,786 Soap and Candles 1,557,548 806,838 Tobacco 20,609,684 1,675,334 Tar, Pitch and Rosin 866,610 4,669,786 Whiskey and Alcohol 19,801,749 30,0	Lime and Plaster	*1,110	692.304
Lard, Lard Oil and Tailow 75,190,512 46,410 Lumber and Timber 20,093,085 77,598 Machinery and Castings 3,877,808 17,228,839 Marble and Cement 126,601 4,331,875 Malt and Mait Liquors 613,358 68,390 Marketing 113,644 435,576 Miscellaneous 2,593,688 1,856,112 Nalis and Spikes 113,644 435,576 Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 869,225 Paper and Rags 1,807,837 2,418,876 Pot, Pearl and Soda Ash 6,125,624 31,723,477 Powder 360 1,018,573 Queensware 4,815 5,460,234 Salt 993,335 5 Straw Boards 993,335 5 Stat Meate and Fish 50,522,039 4,534,786 Soap and Candles 1,575,748 806,838 Tobacco 20,669,684 1,675,344 Tar, Pitch and Rosin 875,340 3,804,786	Live Stock	100,861,000	
Lumber and Timber. 20,063,085 77,590 Machinery and Castings. 3,877,808 17,228,839 Marble and Cement. 126,661 4,331,875 Malt and Malt Liquors. 613,358 68,890 Miscollaneous. 2,693,668 1,856,112 Nails and Spikes. 113,644 435,376 Oil, (except Coal Oil). 1,424,918 2,180,145 Oysters. 869,229 2,418,875 Por, Pearl and Soda Ash 6,125,624 31,725,477 Powder. 903,355 5,460,294 Salt Meats and Fish 50,529,939 4,394,786 Salt Meats and Fish 50,529,939 4,394,786 Soap and Candles 1,575,344 806,338 Tobacco. 20,669,684 1,675,384 Tar, Pitch and Rosin 576,340 1,398,815 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,916 Wool and Woolen Yarn 23,279,391 456,916 Woll Scott 450,105 450,916		2,244,388	
Machinery and Castings 3,877,808 17,228,839 Marble and Cement 126,661 4,331,575 68,830 Marketing 613,358 68,830 Marketing 113,644 435,576 01, (except Coal Oil) 1,424,913 2,180,145 01, (except Coal Oil) 1,424,913 2,180,145 01, (except Coal Oil) 1,807,837 2,418,876 669,229 29aper and Raga 1,807,837 2,418,876 70, Pearl and Soda Ash 61,25,624 31,725,477 70 wder 300 1,016,373 300 1,016,373 1,016,373 20 censware 4,515 5,460,294 5,460,294 5,460,294 5,460,294 5,460,294 5,460,294 5,460,294 5,660,294	Lard, Lard Oil and Tailow		77 590
Marble and Cement. 125,601 4,331,575 Malt and Malt Liquors 613,358 68,890 Marketing. 2,593,668 1,856,113 Miscollaneous 2,593,668 1,856,113 Nails and Spikes 113,644 435,376 Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 869,229 Paper and Rags 1,807,837 2,418,875 Pot, Pearl and Soda Ash 6,125,624 31,723,477 Powder 360 1,016,373 Queensware 4,815 5,460,294 Salt 993,355 4,334,786 Straw Boards 993,355 4,334,786 Salt Meats and Fish 50,529,039 4,334,786 Soep and Candles 1,557,548 806,838 Tobacco 20,669,684 1,675,334 Tar, Pitch and Rosin 866,610 4,669,786 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Wolliary Stores, (U. S. Government) 6,211,927	Machinery and Castings		
Malt and Malt Liquors 613.558 68,590 Marketing 2.593,688 1,856,112 Natie and Spikes 113,644 435,756 Oil, (except Coal Oil) 1,424,913 2,180,145 Oysters 1,807,837 2418,875 Por, Pearl and Soda Ash 6,125,524 31,725,477 Powder 360 1,016,373 Queensware 4,815 5,460,234 Salt Meats and Fish 50,529,939 4,394,786 Sap and Candles 1,557,548 806,838 Tobacco 20,669,684 1,675,334 Tar, Pitch and Liquors 66,610 4,699,768 Whises and Liquors 66,610 4,699,768 Wool and Woolen Yarn 23,279,391 456,946 Wool and Woolen Yarn 23,279,391 456,946 Mones 6,211,927 208,234 Clay 6,211,927 208,234 Bones 450,105 1,129,688	Marble and Cement		4,331,875
Miscollaneous 2.593.658 1,856,112 Nails and Spikes 113,644 435,376 Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 1,897,837 2,418,875 Paper and Rags 1,897,837 2,418,875 Pot, Pearl and Soda Ash 6,125,524 31,725,477 Queensware 4,815 5,460,234 Salt 993,355 5 Saraw Boards 993,355 1,519,7548 Salt Meats and Fish 50,529,939 4,334,786 Soep and Candles 1,557,648 806,338 Tobacco 20,669,684 1,675,384 Tar, Pitch and Rosin 576,340 1,398,815 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,377,931 456,946 Woil wool woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 208,244 Clay 120,785 60,774 Bones 450,105 1,129,688	Malt and Malt Liquors	613,358	68,890
Nails and Spikes 113,644 435,576 Oil, (except Coal Oil) 1,424,918 2180,136 Oysters 869,229 Paper and Rags 1,807,837 2418,875 Pot, Pearl and Soda Ash 6,125,624 31,725,477 Powder 360 1,018,378 Queensware 993,355 4,602,294 Salt Meats and Fish 50,522,039 4,334,786 Sap and Candles 1,577,648 806,338 Tobacco 20,669,684 1,673,824 Tar, Pitch and Rosin 876,310 1,398,815 Wines and Liquors 866,610 4,869,786 Winiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 458,946 Military Stores, (U. S. Government) 6,211,927 228,244 Bones 456,105 1,129,658	Marketing		3 054 330
Oil, (except Coal Oil) 1,424,918 2,180,145 Oysters 869,229 Paper and Rags 1,807,837 2,418,575 Pot, Pearl and Soda Ash 6,125,624 3,723,477 Powder 360 1,016,578 Queensware 4,515 5,460,294 Salt 993,355 4,334,786 Straw Boards 993,355 4,334,786 Salt Meats and Fish 50,529,039 4,334,786 Soep and Candles 1,557,548 806,338 Tobacco 20,669,684 1,675,334 Tar, Pitch and Rosin 866,610 4,969,786 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 228,234 Clay 12,785 60,775 Bones 450,105 1,129,688	Neils and Suikes		1,800,113
Oysters. 869,229 Paper and Rags 1,807,837 2418,875 Pot, Pearl and Soda Ash 6,125,624 31,725,477 Powder 300 1,016,273 Queensware 4,515 5,460,284 Salt 993,355 5,460,284 Straw Boards 993,355 4,324,786 Salt Meats and Fish 50,529,039 4,324,786 Soap and Candles 1,557,548 806,838 Tobacco 20,669,084 1,675,324 Tar, Pitch and Rosin 876,340 1,332,816 Wines and Liquors 66,610 4,669,746 Wol and Woolen Yarn 23,279,391 456,946 Wol and Woolen Yarn 23,279,391 456,946 Millitary Stores, (U. S. Government) 6,211,927 208,244 Clay 120,785 60,974 Bones 450,105 1,129,688	Oil. (except Coal Oil).		
Paper and Raga 1,807,837 2,418,876 Pot, Pearl and Soda Ash 6,125,624 31,725,477 Powder 380 1,016,373 Queensware 4,815 5,460,294 Salt 93,355 5 Straw Boards 93,355 80,520,039 Salt Meats and Fish 50,520,039 4,394,786 Soap and Candles 1,577,648 806,388 Tobacco 20,669,684 1,675,384 Tar, Pitch and Rosin 873,340 1,398,314 Wines and Liquors 866,810 4,869,786 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 208,244 Bones 456,105 1,129,688	Oysters	2,227,010	869,229
Powder 380 1,016,378 Queensware 4,815 5,460,234 Salt 4,815 5,460,234 Straw Boards 993,355 80,239,2039 4,334,786 Salt Meats and Fish 50,529,039 4,334,786 806,338 Tobacco 20,669,084 1,675,234 1,675,234 Wines and Liquors 866,610 4,690,786 30,015 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 228,234 Bones 456,105 1,129,658 Fire Brick 1,129,658	Paper and Rags	1,897,837	2,418,875
Queensware 4,815 5,460,294 Salt 1,011,965 Straw Boards 993,355 4,334,788 Salt Meats and Fish 50,520,939 4,334,788 Soep and Candles 1,557,548 806,338 Tobacco 20,669,684 1,675,334 Tar, Pitch and Rosin 876,340 1,398,818 Wines and Liquors 866,610 4,669,786 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 228,204 Clay 12,785 60,774 Bones 450,105 1,129,638	Pot, Pearl and Soda Ash		31,725,477
Salt 1,011,955 Straw Boards. 993.355 Salt Meats and Fish. 50,522,939 Soap and Candles 1.557,648 Tobacco. 20,669,684 Tar, Pitch and Rosin. 876,330 Wines and Liquors. 866,610 Whiskey and Alcohol. 19,801,749 Wool and Woolen Yarn. 23,279,391 Military Stores, (U. S. Government). 6,211,927 Clay. 120,765 Bones. 456,105 Fire Brick. 1,129,658	Oneensware		1,010,313
8traw Boards. 993.355 Salt Meats and Fish. 50,529.039 4.394,786 Soap and Candles. 1.557.648 806.389 Tobacco. 20,669,684 1.675,334 Tar, Pitch and Rosin. 863.310 1.398,3340 Wines and Liquors. 866.610 4,669,766 Whiskey and Alcohol. 19,801,749 30,015 Wool and Woolen Yarn. 23,279,391 456,946 Military Stores, (U. S. Government). 6,211,927 208,244 Bones. 456,105 1,129,658 Fire Brick. 1,129,658		*,010	
Salt Meats and Fish. 50,522,039 4,334,786 Soap and Candles. 1,557,648 808,383 Tobacco. 20,669,684 1,675,324 Tar, Pitch and Rosin. 876,330 1,532,816 Wines and Liquors. 66,610 4,669,748 Whiskey and Alcohol. 19,801,749 30,015 Wool and Woolen Yarn. 23,279,391 456,946 Millitary Stores, (U. S. Government). 6,211,927 208,244 Clay. 120,785 60,974 Bones. 450,105 1,129,668 Fire Brick. 50,224 1,129,668	Straw Boards		
Tobacco 20,669,684 1,675,854 Tar, Pitch and Rosin 576,340 1,398,815 Wines and Liquors 866,610 4,669,766 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 258,234 Clay 120,785 60,974 Bones 450,105 1,129,668	Salt Meats and Fish	50,529,939	4,394,786
Tar, Pitch and Rosin 876,340 1,398,816 Wines and Liquors 866,610 4,669,756 Whiskey and Alcohol 19,801,749 30,015 Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 258,234 Clay 120,785 60,974 Bones 456,105 1,129,658			
Wines and Liquors. \$66.610 4,869,768 Whiskey and Alcohol. 19,801,749 30,015 Wool and Woolen Yarn. 23,279,391 456,946 Military Stores, (U. S. Government). 6,211,927 258,244 Clay. 120,785 60,974 Bones. 456,105 1,129,658			1,0/0,324
Whiskey and Alcohol. 19,801,749 30,015 Wool and Woolen Yarn. 23,279,391 456,946 Military Stores, (U. S. Government). 6,211,927 258,294 Clay. 120,785 60,974 Bones. 456,105 1,129,658 Fire Brick. 1,129,658	Wines and Liquors		4.669.766
Wool and Woolen Yarn 23,279,391 456,946 Military Stores, (U. S. Government) 6,211,927 258,234 Clay 120,785 60,974 Bones 456,105 456,105 Fire Brick 1,129,658	Whiskey and Alcohol		30,015
Clay 120,785 60,974 Bones 456,105 1,129,658	Wool and Woolen Yarn	23,279,391	
Bones 456,105	Military Stores, (U. S. Government)		258,264
Fire Brick	Clay		60,974
	Fire Brick	450,105	1,129,658
Total during the year. Pounds. 633,069,218 328,501,783			
	Total during the year. Pounds.	633,069,218	328,501,783

STATEMENT No. 15—Continued. Union Line and Joint Traffic Combined, for the year 1866.

~	Pittsburgii	BALTIMORE
LIST OF ARTICLES.	#1118BURGIL	TO
LIST OF ARTICLES.		
	BALTIMORE.	Pittsburgh.
Agricultural Implements	536,618	27,530
Agricultural Productions	601.788 19.681	88,170 4,257
Boots, Shoes, Hats, &c	1,190	4,885
Books and Stationery	9,138	10,238
Butter and Eggs	490.616	
Brown Sheetings and Bagging	55,915 10,000	192.545 4.580
Cedarware	14,162	21,927
Confectionery and Foreign Fruits	1,000	1,489,111
Coal Oil	19,601,684	10,800
Coal, Bituminous		
Coffee	7,200	9,212,471
Cotton	819,292 24,835	36,379
Dry Goods	10.601	181.224
Drugs, Medicines and Dye Stuffs	88,593	296,211
Eartien ware	29,150	50,608
Empty Barrels	861,830 807,912	8,219,700
Florr	22,409,480	
Feathers, Furs and Skins	57,104	4,043
Furniture and Oil Cloth	140,104	884,971 18,559
Green and Dried Fruits	2,048,238 864,327	1,825,355
Grass and other Seeds	437,185	
Grain of all kinds		
Groceries, (except Coffee)	906,893 2,480,316	81,929,928 2,500
Hardware	272.232	119,106
Hides and Hair	435,094	166,087
I ron, rolled, hammered, &c	73,216 470,732	13,346 6.852,355
Iron, Blooms and Pig	17,380	2,015,087
Iron, Railroad		53,200
Iron Ore		89,793
Live Stock		14,000
Leather	183,672	29,401
Lard, Lard Oil and Tallow		5,240
Lumber and Timber		103.703
Marble and Cement	450.818	151,910
Malt and Malt Liquors		
Marketing		1,297,822
Nails and Spikes		1,251,022
Oil, (except Coal Oil)	8,400	82,905
Oysters	4,820	419.563 8,625
Pot, Pearl and Soda Ash.	36,200	353,791
Powder		14,475
Queensware		16,270
Falt		116,020 8,125
Fait Meats and Fish	12.358,400	62,928
Somp and Candles	823,470	17,528
Tar, Pitch and Roein		703,846 484,191
Wines and Liquors		96,631
Whisker and Alcohol	2,284,369	31,425
Wool and Woolen Yarn	71.384 547,102	8,400
Military Stores, (U. S. Government)	175,825	8,400
		40.947.020
Total during the year. Pounds	. 108,863,143	62,347,259

STATEMENT No. 15-Continued.

Way Freight to and from Philadelphia, for the year 1866.

	PHILADELPHIA	WAY STATIONS
LIST OF ARTICLES.	TO TO	TO
MSI OF ARTICHES.		1
	WAY STATIONS.	PHILADELPHIA.
Agricultural Implements	836,608	181,575
Agricultral Productions	5,843,262 2 485	7,239.674
Boots, Shoes, Hats, &c	873.956	6,005,052 1.220
Books and Stationery	28.065	18.978
Butter and Eggs. Brown Sheetings and Bagging	4,129 355,534	8,628,749 14,359
Carriages	138,128	44.414
Cedarware	757,008	7,040
Confectionery and Foreign Fruits	826,725 843,379	213,762.994
Coal. Anthracite	84,073,529	165,632
Coal, Bituminous	•••••	696,967,115
Coffice	1,110.266 399,438	
Copper, Tip and Lead	222,239	113,508
Dry Goods	222,239 38,744,516	13,780,972
Drugs, Medicines and Dye Stuffs	5,126,273 6,454	224,405
Empty Barrels	7,119,654	850,196
Fire Brick	2,247, 02 5	
Fresh Meats, Poultry and FishFlour	20,020 916,770	1,180,777 40,189,301
Feathers, Furs and Skins		75,910
Furniture and Oil Cloth	2.056,362	1,140,843
Glass and Glassware	741,870 714,387	131,50 5 3 ,073,931
Grass and other Seeds	37,927	2,426,879
Grain of all kinds	1.027.616	67,821,158
Groceries, (except Coffee)	46,600,035 1,316,852	115,917 105,690
Hardware	4.376,815	853,955
Hides and Hair	2,437.161	157.451
Hemp and Cordage	884,473 23,455,177	13,068 84,938,998
Iron, Blooms and Pig	1,863,419	6,508,009
Iron, Railroad	4,133,087	6,112,220
Iron OreLime and Plaster	10,325 1,976,417	292.200
Live Stock	705,310	61,846,243
Leather	401,409	4,003,664 392,625
Lard, Lard Oil and Tallow	16,167 1,746.923	123,697,8/6
Machinery and Castings	10.614,471	1,592,656
Marble and Cement.	8,027.661	200.023 6.836.074
Malt and Malt Liquors	1,123.720 109.654	4,027,356
Miscellaneous, Stone, Bones, &c	12,303,541	1,722.015
Nails and Spikes	506,178	4,301,123 4,722
Nickel Ore	212.418	2,8:7
Oysters	2,159,933	
Paper and Rags	2,718,236	3,357.972 19,470
Powder	2,385,476 308,624	19,2.0
Queensware	1,187,072	
Sult	9,114,919 103,032	1,063,459
Salt Meate and Fish	5,629,212	139,000
Soap and Candles	64,230	86,760
Totacco. Tar, Pitch and Rosin.	822,210 229,779	1,695.150 116,992
Wines and Liquors	1,073,700	112,754
Whiskey and Alcohol	3,774	4,212.056
Wool and Woolen Yarn	808,624 6,865	2.359,516 477,790
January Gurien, (U. B. GOTEFHIEBUL)		
Total during the year. Pounds	246,040,034	1,3:28,877,660

STATEMENT No. 15-Continued.

Way Freight from and to Pittsburgh, for the year 1866.

	Etation <i>e</i> To
WAT STATIONS. PITTS	TO
Agricultural Implements	BURGH.
	24.236
Agricultural Productions	657,172
Boots, Shoes, Hats, &c	,613,396
Books and Stationery 10,650	8,599
Brown Sheetings and Bagging	80.349 7,706
Carriages 81,690	289,833
Cedarware	
Confectionery and Foreign Fruits 2.515 Coal Oil 5,773.035	5,280
Coal, Anthracite	,143,116
Coal, Bituminous	,581,866
Cotton 20,490 177.529	•••••
	27,600
Dry Goods	27,600 ,207,015
Drugs, Medicines and Dye Stuffs	45,670
Empty Barrels	705,499
Fire Brick 21.175	•••
Presh Meats, Poultry and Fish	16,705 263,885
Feathers, Furs and Skins	
Furniture and Oil Cloth	,207,975 760
Green and Dried Fruits	10,065
Grass and other Seeds	21.679
	799,547
Groceries, (except Coffee) 8,079,714 Guano and Phosphate of Lime 4,440 4,440	30,801
Hardware	698,875
Hides and Hair	23,693 3,180
Iron, rolled, hammered, &c. 8,803,665 4.	,229,322
Iron, Blooms and Pig 4.033,174 121,	260,023
	,236,976 ,339,300
Lime and Plaster	144,135
Live Stock	182,360 183,069
Leather	60,815
Lumber and Timber	867,648
	,525,969 748,701
Malt and Malt Liquors	18,272
Manufactures	,649,230
Marketing	160,288
Nails and Spikes	721,810
Oil (except Coal Oil)	21,520
Oysters	807,935
Pot. Pearl and Soda Ash	11,000
Powder	108,015
Queensware	
Strawboards	376,525
Saltmeats and Fish	6,604
Tobacco 303.298	207,679
Tar. Pitch and Rosin	14,175
Wines and Liquors	2,300 211,495
Wool and Woolen Yarn	52,057
Military Stores, (U. S. Government)	146,196
Total during the year. Pounds 276,503,245 928,	211,421

REPORT OF THE GENERAL SUPERINTENDENT

OF THE

PHILADELPHIA AND ERIE RAILROAD.

PHILADELPHIA AND ERIE R. R., (P. R. R. Co., Lessee,)
GENERAL SUPERINTENDENT'S OFFICE,
ERIE, January 1st, 1867.

To the President and Directors of

The Pennsylvania Railroad Company.

Gentlemen:—The business of this road for the year ending December 31st, has been as follows:

			GROSS	EARNINGS.		•	
Freight,	-	-	-	\$1,744,299	13		
Passenger,	-	-	-	686,621	78		
Mails,	-	-	-	18,501	96		
Express,	-	-	-	26,941	43		
Government	Troop	os,	-	48,103	13		
Incidentals,		-	-	16,584			
			•			\$2,541,051	79
			EX	PENSES.			
Conducting !	Trans	port	ation,	768,260			
Motive Powe	er,	-	-	682,947			
Maintenance	of W	ay,	-	6 24,245			
Maintenance	of Ca	ars,	-	11,521	41		
						2,086,974	53
Net 1	Earnii	าตร	_		_	454,077	26
				s paid P. &	E. R. F		
Loss	to Pe	nnsy	lvania	Railroad Co	٠,	\$278,661	54

The Philadelphia	and	Erie	proporti	on (of	earnings	is	as
follows:						_		
Gross Earnings,	-	-	-		-	\$2,541,0	51	79
Less U.S. Tax,	•	-	\$41,919	11				
Less State Tax,	-	-	27,767	73				
Less Drawbacks and	Overch	arges	3, 28,902	29				
•						98,5	89	13
•								
Actual Earni	ngs,	-	- •		-	2,442,4		
Thirty per cent. of w	hich i	s -	-		-	732,7	38	80
							_	_

The earnings and expenses for 1866, compared with those of

1865, 8	are : Earnings.	Expenses.	Net Earnings.
1866, 1865,	\$2,541,051 79 2,074,140 79	\$2,086,974 53 1,758,707 15	\$454,077 26 315,433 64
Increas	se, 466,911 00	328,267 38	138,643 62

The expenses ordinary and extraordinary are equal to 82 per cent. of the gross earnings, against 84% per cent. in 1865, and deducting the latter as shown in Maintenance of Way, are 74 per cent.

This result would have been more favorable, but for the decrease in gross passenger earnings of near 20 per cent. which could not be met by a corresponding decrease in expenses, without reducing facilities offered to the travelling public, and thereby discouraging the future growth of the traffic. This decrease is common to all railways in the country, but proportionately greater on this road, caused by the reduced travel to the Oil Region, which, during 1865, was unnaturally heavy.

The freight earnings have increased sixty per cent. over those of 1865. They have been as then, chiefly derived from local sources, and satisfactorily show the development of the country traversed by the road.

MAINTENANCE OF WAY.

This account amounts to \$624,245 02, equal to 29.9 per cent. of expenses, and has been charged with Repairing flood damages of 1865, - \$20,918 60 Expenses due to deficient and defective construction, 185,851 56

Total, - - - - \$206,770 16 deducting which, would leave - - 417,474 86 equal to \$1,449 56 per mile of road, as ordinary expenses in this department.

The first item is properly chargeable to operating expenses, and has only been noted as due to a previous year; but the second, a detailed statement of which is given in the Chief Engineer's Report, consists of such expenditures as have been required to maintain the track in good condition, which would have been unnecessary had it been constructed as prescribed by the Lease and Contract.

During the past year, $7\frac{4}{10}$ miles of additional sidings have been laid, which have partially met the needs of the business. The necessity for sections of double track, as mentioned in last year's report is still urgent, particularly on the Eastern Division east of Williamsport.

The Lumber shipments alone from that point have amounted to 5,000 car loads, more than doubling those of 1865; while the increasing tonnage from the Canandaigua Division of the Northern Central, and from the Middle and Western Divisions of this Road, has taxed its capacity to the utmost.

The regularity and freedom from accidents attending train movements for the past season, indicates the improving condition of the track.

The accompanying Report of the Chief Engineer gives the operations of this Department in detail.

CONDUCTING TRANSPORTATION.

This account stands on the books of the Company at \$1,500,999 28, which includes \$732,738 80 due the Philadelphia & Erie Railroad on lease; deducting this leaves \$768,260 48, or 36_{10}^{8} per cent. of expenses, and shows an increase over 1865, of \$218,087 87.

One-half of this is due to the accounts, Car Service, Drawbacks and Overcharges, and State Revenue Tax.

Car Service represents the repairs of Freight and Passenger Cars, which are paid by the Pennsylvania Railroad Co., and a variable rate per ton on the business of the Road, charged to balance the account of actual cost only.

Total of these Accounts, - - - \$108,474 93

The remaining increase is divided up among the various headings, and is justly due to the increased tonnage.

The fluctuations of the Freight business have been heavy and sudden during the year, which have added in no small degree to the expenses of this and the Motive Power Department, compelling either the discharge of experienced employees to meet the reduced earnings, and the consequent risk of filling their places with untried men when required, or by retaining them to temporarily increase the percentage of expenses to income. In either case the net revenue suffered.

The shipments of Anthracite Coal Westward, amounted to 2,850 Car loads, equal to near 30,000 tons. Of this amount, about 8,000 tons have been consumed locally and in the Oil Region, and the remainder shipped to Lake Ports. This busi-

ness, although necessarily carried at a reduced rate, has been a source of profit, by furnishing return freight for otherwise empty cars.

In comparison with 1865, the leading articles of Freight and Passengers transported are:

	1865.	1866.	Increase.
Barrels Oil,	326,082	673,125	347,043
Tons Lumber, -	145,228	215,282	70,054
Tons Anthracite Coal,	120,803	169,899	49,096
Tons Bituminous Coal,	26,042	86,359	60,317

Total tonnage moved one mile 66,736,892, equivalent to 231,725 tons over whole line of road.

PASSENGERS CARRIED ONE MILE.

	1866.	1865.	Decrease.
Passengers, -	21,145,306	22,227,504	1,082,198
Government Troops,	2,165,024	5,227,918	3,062,894

Total, 23,310,330, equivalent to 80,938 passengers over whole line of road.

The average distance travelled by each passenger was 33_{10}^{5} miles.

MOTIVE POWER.

The charge to this account is \$682,947 62, or 32 per cent. of expenses, equal to 48 cents per mile run, against 55 for 1865. This result is due to the completion of the Repair Shops at Erie, Kane and Sunbury, which were placed in service early in the year, and at once increased the efficiency, while decreasing the relative expenses of the department. They have afforded all requisite facilities for engine repairs and for shelter, except at Erie, where the round house contains but twelve stalls. Its extension to a semi-circle of twenty-two stalls, as at Sunbury and Renovo, is much needed to properly protect the engines laying over.

There being no permanent car shops at Renovo, portions of the machine shop and round house have been used for such purpose. The accommodations thus afforded are insufficient, and inconvenience both branches of the department. Had it not been for the relief afforded by the use of the old shops at Erie, it is doubtful whether the condition of the rolling stock could have been properly maintained during the past year. These last, although small, and inconveniently located, have rendered efficient service.

The general condition of the power has improved, and has at all times more than met the demands of the business. No present addition seems to be required.

The Passenger Equipment remains as at the date of last report, no additions have been made, and none are needed. Some of the older cars are nearly past service, but their numbers can be easily filled at Renovo, when once sufficient shoproom is furnished.

The Freight Stock has been increased one hundred and seventy-six cars, from contracts made last year, leaving twenty-four to complete the order, which will be delivered this present month. New contracts have been made for one hundred additional gondolas, to be delivered by April 1st. The numbers destroyed during the year have been filled at Renovo, and the general condition of the stock is good, and fully equal to present demands.

The use of coke as a fuel on Passenger Engines, has been tried on the Eastern Division, with good success. Its freedom from smoke, as compared with bituminous coal, adds much to the comfort of passengers, while it is less destructive to the paint and varnish of the cars.

Further and detailed information in this department, will be found in the annexed report of A. J. Cassatt, Superintendent of Motive Power and Machinery.

MISCELLANEOUS.

In reviewing the year's operations, it may be said, that the local business of the road in the fullest sense has been satisfactorily accommodated. Occasional complaints of want of cars have been made, but the heavy increase of tonnage shows that these were but temporary, and that the equipment has been amply sufficient for the needs of the past year, even so much so, as to furnish the cars requisite for transacting the joint business with the Oil Creek and Warren & Franklin Railways.

The same, however, cannot be justly said of the construction facilities to be furnished by the lessors. The insufficiency of siding room has caused much delay and expense in train movements. Misled by a temporary decrease in the earnings of July, their Board suspended all construction work then in progress, and although the largely increased earnings of the next three months over any previous, induced them to revoke the order, yet the completion of much work essential to properly transact the present business and indispensable in case of a further increase, was prevented during the season.

The Lake business has been confined to shipments of Anthracite Coal Westward, and of some few cargoes of Michigan Lumber for Eastern cities. The difficulty of approach from the main ship channel to the Company's wharves, and their limited capacity for vessels of the larger class, has rendered it difficult for shippers to obtain transportation, except at higher rates than charged from other Lake ports; especially as the want of an elevator has compelled grain vessels to discharge at Buffalo and come in ballast to Erie. This last difficulty, it is hoped, will be remedied the coming season.

The Warren & Franklin Railway was opened to Oil city on August 1st, and has proved a valuable feeder to the road.

On April 1st the General Offices of the road were removed from Williamsport to Erie.

The operations of the road have been carried on with success during the year. Trains, both passenger and freight, have run with regularity and comparative freedom from accidents. Except in the case of a train thrown from the track on the Western Division, in February last, by a broken rail, no passengers have been injured; in that instance, the casualties wer but slight.

All of which is respectfully submitted,

ALFRED, L. TYLER,

General Superintendent.

REPORT OF THE SUPERINTENDENT

OF

MOTIVE POWER AND MACHINERY.

Office of Sup't of Motive Power and Machinery,
Renovo, Penna., January 20th, 1867.

ALFLED L. TYLER, Esq.,

General Superintendent.

SIE:—I have the honor to submit the following Report of the operations of this department for the year ending December 31st, 1866.

There are at present ninety Locomotives on the Road, one new Passenger Engine having been received since the date of last report.

They are in the following condition:

In good order,	-	•	-	-	49
" running order,	-	-	-	-	2 2
" shop for repairs,	-	-	-	-	19
Total, -	-	-	-	-	90

The following tables will show the performance of Locomotives:

MILES RUN.

	Passenger Trains.	Freight Trains.	Distributing Trains.	Total.	
Eastern Division	168,327	288,392	28,869	480,588	
Middle "	123,747	805,785	45,911	475,893	
Western "	172,984	268,202	81,948	478,129	

Total mileage for 1866, - - 1,429,110
" " 1865, - - 1,022,828

Increase over 1865, - - 406,282

GREATEST MILEAGE WITH PASSENGER TRAINS.

Eastern	Division,	Engine	1,007,		-	-	28,375	miles.
\mathbf{M} iddle	u	"	1,034,	•	-	-	26,921	ee.
Western	"	"	1,090,		-	-	23,632	et

AVERAGE MILEAGE WITH PASSENGER TRAINS.

Eastern D	ivision,	-	-	-	-	-	21,041 n	niles.
\mathbf{M} iddle	"	-	-	-	-	-	20,624	"
Western	u	-	-	-	-	-	18,109	**

GREATEST MILEAGE WITH FREIGHT TRAINS.

Eastern	Division,	Engine	1,066,	-	-	27,894 miles.
Middle	"	"	1,072,	-	-	28,829 "
Western	"	"	1,055,	-	-	23,098 "

AVERAGE MILEAGE WITH FREIGHT TRAINS.

Eastern	Divis	ion,	-	-	-	-	-	15,744	miles.
\mathbf{M} iddle	"		-	-	-	-	-	18,572	"
Western	n "		-	-	-	-	-	14,116	"
Total av	verage	mileage	with	passe	nger	trains	,	19,377	miles.
"	"	"	"	freig	ht	"		15,876	"

COST OF REPAIRS, FUEL AND STORES.

	Repairs.	Fuel.	Stores.	Total.
Eastern Division	\$75,504 50	\$64,128 88	\$8,811 11	\$147,94 3 99
Middle "	64,796 28	54,812 15	8,877 09	127,485 47
Western "	63,968 32	62,619 47	7,195 96	188,778 75
Total, 1866	\$204,264 05	181,060 00	28,884 16	409,208 21
· 1865	168,287 46	158,984 57	. 24,408 49	849,680 52

Showing an increase in the total cost of repairs, fuel and stores, over 1865, of \$59,527 69. This increase is small, when 'the increased tonnage on the Road is considered, and when it is recollected that the repair account of the past year is swelled by the amount of \$6,000, expended on engine 1,084 before it could be put in service, and that heavy expenditures were made on engines 1,083, 1085, 1,086, 1,087, 1,088 and 1,089, before they had been more than a few months on the road.

TOTAL AVERAGE COST PER 100 MILES RUN.

· · · · · · · · · · · · · · · · · · ·	Repairs.	Fuel.	Stores.	Total average cost.	
Rastern Division	\$ 15 66	\$18 48	\$1 74	\$30 83	
Middle "	18 85	11 49	1 75	26 59	
Western "	18 81	18 09	1 51	28 41	
General average of Entire Road.	14 29	12 67	1 67	28 63	

The decrease in average cost per 100 miles run from that of the year 1865, has been marked, viz:

The decrease in cost of fuel is partly due to the fall in the price of coal, but not wholly, as the following statement will show:

The following table shows the amount of materials on hand at the different shops:

	Dec. 81st, 1865.	July 1st, 1866.	Dec. 81st, 1866.
Sunbury	\$46,881 89	\$69,918 96	\$44,869 55
Renovo	148,508 62	154,140 69	90,797 25
" Iron Foundry	8,745 84	14,856 84	11,207 90
" Brass "	544 62	977 52	781 90
Kane	4,898 07	13,426 69	11,376 81
Erie	78,299 04	77,685 02	75,862 01
Totals	\$282,872 08	880,955 22	284,345 42

The material now on hand stands at about market rates; the old stock, which was purchased when prices were at the highest, having been worked off gradually. It is believed that the amount of material on hand can be still further reduced, and that the saving in interest, and in the waste incident to too large a stock, will be important.

ROLLING STOCK.

Since the date of last Report, three new express cars and one new passenger car were placed on the Road. These, together with a new baggage car, (to replace one destroyed,) were built at the Renovo Shops.

PASSENGER EQUIPMENT.

	On hand Dec. 81st, 1865.	Rec'd in 1866. Built at Renovo Shops.	Total.	In shop to re- build and repair.	Total in service.
Passenger	49	1	50	12	88
Baggage	15		15	6	9
Express		8	8		3

From the above table it will be seen that the number of passenger and baggage cars in actual service, has not changed since the date of last report. The condition of the passenger equipment is fair, and is improving.

FREIGHT CARS.

	On hand Dec. 81, 1865.	Built at Renovo Shops.	Built by Con- tract.	Total.	To re-	Placed in other service.	In shop for slight repairs.	In actual ser-
Box	291	1	50	342	6	48	11	282
Gondola	774	15	126	915	6	24	15	870
Stock	20			20	4		ĺ	16
8 wheel coal	80			80				30
4 " "	40			40	1			39
Totals	1,155	16	176	1,847	17	67	26	1,287

Showing that of a total of 1,347 freight cars on the Road, 1,237 are in freight service in running order, 67 are in other survice, and only 26 in shop for slight repairs, and 17 to be rebuilt. The freight equipment is, therefore, in as good condition as could be desired.

In the Maintenance of Way Department, there are the following:

Box Cars,	-	-	-	-	7
Gondolas,	-	-	-	-	68
Dumps,	-	-	-	-	96
Hand Cars,	-	-	-	-	63
Hand Trucks,		-	-	-	83
Derrick Cars,	-	-	-	-	1
Boarding and	Sup	pl y C	Cars,	-	6
Tota	ıl,	-	-	-	324

RECAPITULATION.

Total	number	of	Passenger	Cars,	-	-	_	-	49
"	"	"	Baggage	u	-	-	-	_	15
"	"	"	Express	".	-	-	-	_	3
"	"	"	Freight	"	-	<u>-</u>	-	-	1,347
"	"	"	Maintenar	ce of	Way,	-	-	-	324
		. 7	Cotal numb	er of	Cars,	-	-	-	1,738

There are 24 Gondola cars yet to be delivered to complete old contracts, and 100 new Gondolas have been contracted for, and will be in service before the 1st of April.

ADDITIONAL FACILITIES REQUIRED.

The Erie Engine House is not large enough to accommodate the necessary number of engines, and an addition of ten stalls is badly needed. Coal and wood platforms are also required at this point. Much inconvenience and delay has been experienced at Kane, on account of the locomotives having to be coaled on the main track. Coal and wood platforms, located on the siding leading to the engine house, are almost an imperative necessity.

At Renovo the Engine House, Machine and Blacksmith Shops, and Foundry, are of sufficient capacity for the present business, but the Car Department is very much embarrassed from the want of proper accommodations. All the repairs of cars, both freight and passenger, together with the painting, have to be done in the east end of the Engine House.

The expense of car repairs at this point has been largely increased by this want of adequate facilities. I would therefore respectfully urge on your consideration the importance of erecting car and paint shops during the present year.

During the past year the condition of the Power steadly improved, and was at all times equal to the demands made upon it; and, in conclusion, it may be stated, that if the present force of mechanics is retained, the Power will, without the addition of any new locomotives, be capable of hauling fifty per cent. more tonnage than was moved at any time during the past year.

Respectfully submitted,

A. J. CASSATT, Supt. Motive Power and Machinery.

9

REPORT OF THE CHIEF ENGINEER

OF THE

PHILADELPHIA & ERIE RAILROAD,

(Penna. R. R. Company, Lessee.)

MAINTENANCE OF WAY DEPARTMENT, Williamsport, Pa., Dec. 31st, 1866.

ALFRED L. TYLER, Esq., General Superintendent,

SIR:—I beg leave to present the following report of the operations of this department for the past year. The work of the year has progressed regularly, without any serious interruptions or unusual occurrences.

The books of this department show Charged to Maintenance of Way, of	an expend	iture durin	g the year,		\$598,585 27
In this amount are included the fo erly come under the head of ordinar	llowing iter		lo not prop-		
CHARGEABLE TO ORIGINAL CON HAM AND		n betwe	en whet-		
Graduation, Western Div., (Warren t " Middle, " (St. Mary			. \$ 5,662 6 ⁷ 23,884 72 6,162 66	`	
Bridges and Culverts, Middle Division	1		85,710 05 9,741 81	45,45 1 86	
EXTRAORDINARY EXPENSES TO OF MARC		AMAGES :	BA LTOOD		
Bridge Masonry, Western Division Middle " Eastern "		15,124 78 234 06 1,777 87	15 100 01	,	
Road bed, repairs of, Middle Division. Road bed, repairs of, Eastern "		2,947 28 885 16	17,136 21 8,782 89		
Cost of rebuilding bridges and com of Road operated previous to lease were to have been made good by the	ith Penna.	R. R. Co.,	and which	20,918 60	
ITEMS.	Sunbury to Whetham.	Warren to Erie.	Totals.		
Bridges. Culverts Graduation	1 886 25 27,648 83	588 56 3,956 58	2,474 81 81,605 41		,
Ballasting	8.027 91 1,414 82 1 535 46	,	1,414 82		
Totals,	118,253 40	22,146 80	140,400 20	140 400 20	203,770 16
Leaving the cost of ordinary Mainten	ance of Way	7. •			\$391,765 11

This amount does not include charges that may have been made under the head of "Maintenance of Way accounts" by the Motive Power and other departments, and not reported to this office.

GRADUATION AND RAILWAY SUPERSTRUCTURE.

The Guard Bank on Sunbury Shop grounds, reported as in progress last year, has been completed, and the necessary grading done in Sunbury yard for an extension of the tracks at each end, and for three new sidings, and all the tracks in that yard have been ballasted with gravel.

An open water way of twelve feet span, and one hundred and four feet in length, has been built near Northumberland, for the use of the steam saw-mill at that point, and the road bed graded the same place for two sidings, half a mile long. Three hundred feet lineal of retaining wall have been rebuilt, near Montoursville, and the side hill cuts near that place sloped. A large amount of earth has been removed from the side hills between Jersey shore and Lock Haven, and used for widening banks, the track in several places being moved out from the foot of the slopes on to the embankment thus made.

A quantity of rock has been removed from the side hills between Lock Haven and Renovo, and six hundred and fifty feet lineal of slope wall built east of North Point, to prevent freshets in the river from washing away the banks.

On the Eastern Division, twenty stone drains, two box culverts, and one brick sewer have been built new, and twelve drains, and four culverts repaired.

A number of the side hill cuts between Round Island and Sterling have been sloped; about fourteen hundred yards of rock have been removed between Renovo and Westport, and six hundred perches of retaining wall built. About three hundred yards of rock have been taken down between Keating and Round Island, and used for rip-rapping banks. Much has been done towards completing the graduation between Ridgway and Wilcox, which was left in a very unfinished condition at the time of opening the road.

The masonry of nine open water ways, varying from three to fifteen feet span, between Renovo and Kane, has been entirely

rebuilt, and the wing walls of two others. Considerable material has been removed from the rock cuts west of Kane, and the Western Division has been ditched.

One culvert near Union has been repaired, and one near Jackson's station rebuilt. The general character of the track has been much improved during the year, a quantity of new material having been used. Some stone ballast has been put in the track on the Eastern Division, and between Warren and Erie a large amount of gravel ballast has been used.

The following quantities of material have been used during the year:

	Eastern Div.	Middle Div.	Western Div.	Total.
Tons of Iron Rails for Construction	179	144	216	5 89
a « Renewals	488	58	118	654
Number of Chairs for Construction	818	652	647	2,112
« « Renewals	2,132	2,108	2,371	6,611
Pounds of Spikes for Construction	13,200	7,270	17,265	87,735
« « Renewals	15,355	26,556	26,166	68,077
Number of Cross Ties for Construction.	8,982	2,845	4,787	11,614
4 " Renewals	50,888	11,107	63,832	125,277

Grading has been done for the extension of the Williamsport Lumber Branch, a distance of three thousand feet, as well as for a number of new sidings on different parts of the road.

The following extensions of track have been made during the year.

Sidings at	Sunbury,	1,922	feet.
ii .	Brown's, (near Milton,) -	810	"
"	Muncy,	340	"
"	Montoursville,	2,368	"
"	Williamsport, (Lumber Branch,)	3,000	"
"	Graham's, (west of Farrandsville,)	2,340	"

Sidings at	Renovo, 10,140 feet.
ű	Kane, - 4,016 "
u	Cummingsville, 2,300 "
u	Otts, 850 "
"	Irvineton, 2,946 "
"	Pittsfield, 424 "
"	Corry, 311 "
"	Erie, (Outer Depot,) 9,531 "
"	" (Harbor ") - 1,322 "
	Total, 8 miles, 380 feet.
The lengtl	of Main Track in use, is - 287.51 miles.
u	" Sidings in use is 63.022 "
"	" Private Sidings in use, is - 9.193 "
	Total length of Track in use, 359.725 miles.

Connections have been made with the tracks of the Warren & Franklin Railroad Company at Irvineton.

BRIDGES.

The superstructure of the bridge over the north branch of the Susquehanna, at Sunbury, 973 feet long, has been replaced by a Howe truss, the masonry grouted and coped, new icebreakers constructed, and the foundations rip-rapped.

At Northumberland bridge new ice-breakers have been built, and the foundations have been rip-rapped. The roofing and covering of Montgomery bridge, reported in progress last year has been completed; one pier, injured by the flood of March, 1865, has been rebuilt; the ice-breakers have been renewed, and rip-rapping done.

The Trestle bridge, east of Muncy, has been replaced by a Howe truss of 40 feet span, for double track. The masonry of Williamsport bridge has been repaired and coped, and the superstructure, 1,133 feet long, constructed last year at that place has been roofed and covered. New wing walls have been built at Lycoming bridge. The wooden stringers near Wayne, 2 spans of 18 feet each, have been replaced by iron girders, and the masonry has been rebuilt. Bald Eagle and Queen's Run bridges have been strengthened by additional arch bolts, the masonry has been repaired, and considerable rip-rapping done at the latter. At Hyner's run, the trestles have been replaced by a Howe truss of 40 feet span. Four stringer bridges of 16 to 20 feet span, the draw-bridge over canal at Lock Haven, and a public road bridge near Hyner's, all on the Eastern Division, have had their superstructures renewed, and the masonry of three others has been repaired.

The stringer bridge at Dahoga, destroyed by fire, has been rebuilt. Westport bridge has been roofed and covered. All the bridges on the Middle Division have received more or less repairs, and additional floor beams and new track stringers have been put down to give additional stiffness to the floors. The piers on the Sinnemahoning have been all rip-rapped. pier of Irvine bridge, and both abutments of Union bridge, destroyed by the freshet of March 1865, have been rebuilt and extended for second track; at the latter place the water-way has been widened from 60 to 100 feet, and a Howe truss substituted for the old superstructure. The masonry at Mead's Run, near Youngsville, has been rebuilt and the superstructure replaced by iron girders. The superstructure of the first bridge east of Union, has been replaced by a Howe truss of 62 feet span. The renewal of Belle Valley trestle is now in progress. On the Western Division repairs have been made at a number of places, spanned by stringers on trestles.

ENGINE HOUSES AND MACHINE SHOPS.

The new shops at Kane and Erie were completed and put into operation early in the year. The old shops at the latter place

have been repaired and drained, and adapted for use in painting and repairing cars. At Renovo, platforms and bins have been built for strong castings and other shop materials, and the foundations of an Oil House have been laid. The temporary engine house at St. Mary's, 20 by 120, was burned in August last, and has since been rebuilt. At Sunbury, bins have been built for shop materials, eighteen pits in the engine house have been repaired and the turn-table put in good order:

COAL, WOOD AND WATER STATIONS.

New tubs have been placed in the tank houses at Jersey Shore and Bald Eagle, and the buildings have been repaired. Sheds for storing coke for use of passenger engines, have been built at Sunbury, Lock Haven, Renovo, Kane and Erie. The line of pipes leading to Grove reservoir has been taken up and relaid in a new location to avoid injury by lumbering operations. A new well, five inches bore and two hundred and seventy feet deep, has been sunk at Kane, and is now supplying water to that station, and a tank holding 50,000 gallons, and covered by a suitable building, has been erected at same place. Two coal houses, 16 by 24 feet, have been built at Renovo, to store a supply for the shops, and the coal platform at St. Mary's has been extended and covered. A tank and building similar to that at Kane, has been completed at Erie Shops, and is supplied from a well by a Worthington pump, taking steam from the shop boilers.

The Union reservoir has been relined with brick. The pipes leading to Columbus water station, have been renewed. Temporary coal platforms have been constructed at Warren and at Erie. The masonry of all our reservoirs has been more or less injured by the action of frost, owing to the want of suitable covering, and in consequence requires annual repairs.

FUEL. 'The consumption of fuel during the year was as follows:—

	Cords of Wood.	Net Tons of Coal.
Eastern Division,	4,424	9,261
Middle "	5,695	17,245
Western "	3,308	9,229
Consumed by Locomotives, -	13,427	35,735
" at Shops, Stations, &c.,	603	3,606
	 	
Total,	14,030	39,341

The stock on hand December 31st, was as follows:

	Cords of Wood.	Net Tons of Coal.
Eastern Division,	5,123	2,052
Middle "	1,794	2,002
Western "	3,065	1,790
Total,	9,982	5,844

ROLLING STOCK.

The rolling stock in use by this department, consists of seven locomotives, seven eight-wheeled caboose cars, sixty-eight eight-wheeled open trucks, six eight-wheeled dump cars, fifty four-wheeled dump cars, sixty-three hand cars, eighty-three hand trucks, four boarding cars, and two supply cars. Forty four-wheeled dump cars, in addition to the above, and belonging to this department, have been working on other branches of the Pennsylvania Railroad. An additional locomotive was in use part of last season on the Western Division, distributing gravel ballast.

PASSENGER AND FREIGHT STATIONS.

The passenger station at Lewisburg, commenced in 1865, has been completed and put into use, and a new frame building is now in course of erection at Northumberland, for a passenger depot. Repairs have been made at Lewisburg and Milton freight houses, and Lock Haven and North Point passenger depots. Platforms have been extended or rebuilt at nine different points on the Eastern Division, and sign and distance boards prepared for all stations. The Corry passenger station has been moved into the new building erected by the Atlantic & Great Western R. R. Co., and now used as a joint depot for all roads at that point. The old station house east of the Brokenstraw creek at Irvineton, has been moved to a point about half a mile west of its original location, and fitted up for a freight depot, jointly used by the Philadelphia & Erie and Warren & Franklin R. R. Co's, and the latter road has constructed a new building at the intersection of the two roads, used jointly as a passenger station.

At Erie outer depot, a frame building, 31 by 47, has been erected as an office for the yard dispatchers and train hands, and the shed for transferring freight has been completed.

LABORER'S TOOL AND WATCH HOUSES, ETC.

A frame building, 19 by 52, has been erected at Watsontown for use of the Maintenance of Way train men who were moved to that point from Williamsport. A frame building, 18 by 36, has been put up west of Muncy for the road men, and one near Garland for the foreman at that place. Three laborers houses on the Eastern Division, and those at four points on the Western Division, have been lathed and plastered. The temporary foreman's house at Round Island was destroyed by fire, and one, 16 by 24, has been built at Wistar Station to replace it.

ERIE HARBOR IMPROVEMENTS.

The construction of the pier in Erie Harbor was completed in the spring, 500 feet in length was planked, and bins erected for the accommodation of the coal trade, and the tracks were re-arranged and extended to suit the work to be done on them. The slips have been dredged out, and a channel cut from the pier to the main harbor channel.

Very Respectfully,

JOHN A. WILSON,

Chief Engineer.