##  <br> 2xtestern Curoliniam.

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CARLTON -No . II.
We have been seceustomed to consider
Canalo es the cheopest means of com
 metior of io contry. $\mathrm{At}_{1}$ pretent ppinien in in Great Brtainin and our oun
peoviry, where trial has been made is country, where trial has been made in
the greatest exxent nod perfection, that the Rall-rod is oo mayy sccounts supe.
rior, and ought io be preferred. The nor, and ought to be prolerred. in fortu
 our doobss removed, we need only to ex-
amibe if for burselves. Afer Nefaltures and diappointments. which North Caro Ilach has suffered in her pant Efforta, we
|oncoudy and difigenty inquire int tivid evson, to inquive foititrolly and srive be public fuand. By a small expend ture preperly directed in the employ men
of on Engineer woch of mo borly
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\begin{aligned}
& \text { Thin did contiane rue till by the perfec. } \\
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 tained to the suistaction of olll. This
the mode of doing such susines. no practived in other matco nnd other paris Tre carried on. Such men as jucke
Wright James Geddes, and manno oihers Who have been long proved op possess
practical thill nad notegrty in their pro-
 aresonable compensation for their rek

 precipiation, of unqualifed udeterakern
of cehemes heedlesaly com menced and
 This unfortunate mode of prosecuting plans of pubie improvem onntiess and
ever attessed in other cocsity for it there
here.
Object is to show in what respecta Rail ouidecs are preferable to Canals.
course of a canal we must be continually hampered by the enecositity of carrying it
where there will be at all timey wher sufficient supply of water. This oc. casions the meandering of connis slong
the banks of tivers, and leading them to intersect streoms at proper places. so thas their length is extended tar more
than would be neecsars, could thio cir-
 genen of the whole line of a canal necess-
tiorily lost with a view to securing the proper quantity of water. It must dififer
 of much extent, that at least one fourth, if not one third, is likely to be added by this single object. It was estimated by
the Unite States Enpineers, thas a Canal from Pitsburg to to innay vania, to pasa three hundred and ninety miles in length. By the seme repori, a kairiond rom than two hundred and fifty miles. In
this finstance the Railway is only fivetiggtrbs of the Canal in length. In this
ditance of 390 miles by a Canal, one handred and forty miles are soved by re sorting to the Railroad. An exacty sim. other examples, but this is one to show 1) of expense is sometimes incurred by ${ }^{\circ}$ Cenal on account of water, beyond what is necessiry to a Railrosd. Let us re
member too that such odifierence has member tion effets, not only in the first construc ist effects, not only in the arst construc
tion and expense of a Canal, but in a tion eveling and IEansporation upon it, snd
tin the mainemance of it in repair through anl fature time." It ough not to be omit ted also, that when the repairing of a
Canal becomes necessary, it is for more difficult, expensive, and interruping to business, than that of a Raitroad.


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perfection of moke in the iton whects
that run upon then, thore cumes to be
less fesistance from fricion to the car-

 reaned of the realer pot to imagine that
thit is rommancing, or that it is sid to answer a porpowe. The correct compar.
ion of advanakes between the ese method

$\qquad$
$\qquad$ and keeping them in good condition, and
in the erection and maintenance of btidges over them, is greater thanr any wach t
pense necessary to Rálirosis. When Ganal is made through a country, mean
must be provided at convenient distance Tor crosing them, to prevernt the com
municaion between one part of a farm of

 or making and keeping up bridge,
hrough all fuure time. And if there be any road crosing the site of the Canal
ab bridge must be mintained det the pub ic expense forecer, thet the highway may not be intertupted. This expen
of bridges mus continee to be ievied in tronpporation of goods. In regord to
Railvars these .ficulties almost entire them any where without injury, and al
that ion neecsury for the crosing on wheeek is aliece ofter ber the iron rail
ground tong the side of the and high enough to prevent the wheel avement laid cown upon is oder sid
n this manner provision is made for any road on which waggons or carriages cros
railway. ridges.over the great sestern canal New York have ever been numbered, bu after having passed with perconal obser
vation from one end of that Canal to the other, it is conjectured that in the whole distance of three hundred and sizty three thought likely to fall short of the reality cumstances convincing evidence mus ways be greater than are requisite for Railuay.
5. It is much to be appretended the han eight or ten thouand doliars, while str principal fiven originate in the moun
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& \text { vidence, will hereater be given to the }
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$$ perpetuity by tolls spon the Canal, and

hrough all time act sas burden upon the y vonish. Mee and horse9 can cros in pasing overtit from touching tee
before il descends upon some litle etone miles, the number of bridges is not less
than four hundred. Io slating this, it is appear, that the maintenance, and repairs,
and attendant expenses of Canals, muss of the country along their route. The






 in comparive with Cotanke. All out n tidges, from the western exiremitien
ithe uate tourdo the ocesn. These


 bitity, have greater adrnatgeses for solong
line as 230 or 300 miles, than pature hio bestaved on mon otber parts of the
world. Were a Comat attempled from
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from the Corscer fribuaries. would mate
i: necewerv for such a Canal, that it
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pente in the comptaion of Canals.
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 country it it must be emioenty so io our
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ine no less sold oak of hee westenn part,
ould leave us nothing to deeire in com would leave us nothang ad cheerpess
pectiness) durbaility, and
naterials. The work too, would be of ort that could be executed by our own
people, under the direction on on Engi
neer, as well as by any that could be found in other countries. It io computed
that the interess of heo money which rust be paid for the iron more than for
hee wooden Railway, is more than suff itent to defryy the experise of renewing
it $2 t$ the time when it shall become ne the later is the cheaper of the wo in the end and it requirestar
first accos acomplishenent
I has appeared then, from the whole Comparison here made that for many
ceasons Railways are preferable to Canalts 1. Canals must penerally be much
Ionger than Railways, between the same exreme poins. 2. A mile. of Ruiluan
ven ifit be of iron is less costly han
 other. 4. The petennial, that is, the
ontinual expense of mainatining a cana conturidens and repairs is greater the
with bride
that which is incident to Railcoad. Canals, especially ind soothern climate
may be well dreaded as sources of dis many be well dreaded as sources of dis ease. 6. The face of our state, the par
silel courses of out rivers, and the con-
 ways of mood are scarcely more than ha as expensive as those of iron. Their
Serior cost, then, compred with that Canals, must give them greatiy the pre erence to an economical people con-
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CARITON.






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