

would if adopted in calculation, (see our answer to the 13th interrogatory,) shew a surplus of 7,622,045 cubic yards on the Linganore route. Yet *suppositions* are made differing from his opinions and belief and applied to his calculations, and Mr. Trimble comes to the conclusion that there is a deficiency of 8,933,275 cubic yard, and thereupon he pronounces that route impracticable "with due supply of water."

In like manner, on the Seneca route, adopting Mr. Trimble's opinion and belief in calculation, and there is a surplus of 51,914,240 cubic yards of water; but by making use of his *suppositions*, in place of his belief and opinions, he brings out a result by calculation shewing a surplus of only 25,549,374 cubic yards. We have a right to infer from this, that Mr. Trimble has a distrust of *his own opinions and belief* in regard to drainage and reservoirs on the Linganore and Seneca summits, and more than this, that he has not entire confidence even in his *suppositions*, that fall far short of his opinions. when he remarks, "candour compels us to say that the supply of water for a canal, obtained from reservoirs, has been usually attended with partial disappointment either from hidden causes or defective calculation, and that every sound Engineer would seek in preference a supply from other sources if such were within his reach."

If then, Mr. Trimble, entertaining *opinions* that, if correct, would make the Linganore and Seneca routes both practicable with a due supply of water, feels compelled to reduce the surplus of water on the latter very largely, and to report that the Linganore has a deficiency of 8,933,275 cubic yards, and is therefore impracticable. If, we say, Mr. Trimble deems all this caution necessary, are we not justified in pronouncing, that *in our judgment* the Seneca route is impracticable; when a *strict application* of our opinions to Mr. Trimble's *facts*, shews a deficiency of 7,202,889 cubic yards, for a canal of the dimensions and the tonnage contemplated by the committee—and this too, including the 12 miles of "interior areas?"

To proceed.—This deficiency on the Seneca summit is increased to 10,445,887 cubic yards, if there should be required as much water on that summit as from Mr. Trimble's calculation appears to be necessary—his calculations making 52,964,998 cubic yards to be annually required.

Again.—Our own *suppositions* as to tonnage, (see our report,) with locks of only $4\frac{1}{2}$ feet lift, as contemplated by us, applied to Mr. Trimble's *facts*, would shew to be necessary on the Seneca summit, annually, 55,680,000 cubic yards—viz:

	Cubic Feet,
For leakage—Daily,	2,700,000
For lock-gate leakage,	324,000
For 23 miles of canal and feeder,	1,957,200

Total per day. 5,011,200

Making for 300 days, the above amount of 50,000,000 cubic yards, and consequently a deficiency of 13,160,889 cubic yards.