

COMPARATIVE STATEMENT

Of the Expenses and Returns from 10 Acres of Wheat on a Clover Ley, and of the Cost and Returns on 3000 lbs. of Maple Sugar, on average years for both.

WHEAT:	£	s.	d.	SUGAR:	£	s.	d.	
Rent of 10 acres, at 10s. per acre	5	0	0	Cost of 2 boilers,.....	5	0	0	
Ploughing 10 acres, at 10s. per acre...	5	0	0	" 800 noggings, at 1s.	40	0	0	
Seed wheat, at 1½ bushels per acre,				" Sugar-house,.....	5	0	0	
15 bushels at 5s.	3	15	0			50	0	0
Sowing wheat, 10 acres.....	0	6	3	Interest on £50, at 10 per ct.	5	0	0	
Harrowing twice, at 2s. 6d. per acre...	1	5	0	Wages of 3 men making su-				
Rolling, at 1s. 6d. do.....	0	15	0	gar, one month, at £4 per				
Cutting, at 3s. 9d. do.....	1	17	6	month.....	12	0	0	
Binding, at 3s. 9d. do.....	1	17	6	Conveying 3000 lbs. sugar to				
Shocking, at 1s. do.....	0	10	0	market	1	5	0	
Drawing home, at 10s. do.....	5	0	0					
Thrashing 30 bush. at 6d., 15s. per ac. ..	7	10	0	Cost of production of 3000 lbs. sugar...	18	5	0	
Winnowing and putting into bags, at				Returns on do. at 40s. per 100 lbs.	60	0	0	
2s. 6d. per do.....	1	5	0					
Conveying 300 bushels to market, at				Profit on sugar,	41	15	0	
5d. per bushel.....	6	5	0	Profit on wheat, per contra.....	29	3	9	
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Allowing value of straw against interest of outlay for thrashing and winnowing machines, deterioration of soil, &c.				Difference in favor of sugar cultivation, ..	14	11	3	
Cost of production of 10 acres of wheat at 30 bushels per acre,	47	16	3	This calculation is made up on the supposition of 30 bushels being an average crop of wheat, and 5s. per bushel an average price. We have no doubt, in coming years, on account of the very great encouragement to competition in the corn trade given by the opening of the British markets, that such price will not be sustained.—				
Returns on do. at 5s. per bushel,.....	75	0	0					
Profit thereon,	£27	3	9					

Scientific Agriculture.

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Buying Land.

"You know very well," said Science, "how your neighbor, old Mr. Stubborn, went into the next State to buy a farm. The owner knew what the farm was, and advertised it in spring time, when he expected damp weather. I advised Peter to take me with him to view the strata of rocks below, and to analyze the soil on the surface; to see how it laid for draining, and what aspect it presented to the atmosphere. I told him I could save him my expenses many times over. But Peter scorned my advice—he thought he had worked more land than I had, and was as good a judge of land as any man in the States; and he set off, muttering something about 'not letting book-worms make money out of him.' He walked carefully over the farm—it looked green and flourishing, and not swampy even in that damp wet weather. He was delighted with it, and gave forty dollars an acre for three hundred acres. He paid his twelve thousand dollars and took possession. But in the summer time as I passed that way, I found that so much praised farm burnt up almost with drought, and its vegetation droop-

ing and panting for moisture, which the soil could not supply! Peter had bought a light sandy soil, laying upon what we call, geologically, a coal formation, with a pretty decided slope eastward. I took a little of the soil and analyzed it, and showed what it contained. In one hundred parts there were about eighty-three of lime, three of oxide of iron, one of potash, one part of phosphoric and carbonic acids, and four parts of vegetable and organic matter. Now, I said, the soil will be beautifully productive in wet weather, but will be parched in dry weather."

"Ah," he said, "that was how I was taken in, I saw it in a wet spring season."

"It," I rejoined, "you had taken me with you, I would have taken a handful of this soil from various parts of the farm and would have told you exactly what it contained, as I do now. I would have told you that sand, which predominates here, cannot retain moisture which flies off; nevertheless, I would have told you that in certain positions the soil might be made fruitful, if it laid upon a faithful geological formation, and with a moist atmospheric aspect. I should then have examined the geological strata here, and have told you it was on a coal formation, consisting of beds of limestone and blue shale, near the surface,