NOTE ON G. S. COX'S PAPER ON CIDER-VINEGAR.

BY A. H. ALLEN.

MR. Cox's results are far more suggestive when calculated on the "original solids" of the apple-juice, and many of the anomalies disappear. The ratio of the ash to the residual solids of the vinegar has little meaning or interest, but the proportion it bears to the "original solids" of the juice before fermentation affords much assistance in forming an opinion as to the extent to which dilution has been practised.

The following table shows the "original solids" of Mr. Cox's samples calculated by *Hehner's* formula, and the ash for 100 parts of these solids. In calculating the

original solids of Sample 604 the alcohol present must be taken into consideration. But the correction I have applied is evidently excessive.

Sample Number.			Original Solids, per cent.	Ash on Original Solids, per cent.
601.	...	Vinegar	9.10	2.74
602.	...	"	10.48	2.38
603.	...	"	12.17	2.13
604.	...	"	16.00	1.94
605.	...	"	12.88	2.63
606.	...	"	11.42	3.15
607.	...	"	10.36	2.50
608.	...	"	13.38	3.25
609.	...	"	11.45	3.49
610.	...	"	12.27	4.23
611.	...	"	15.26	2.55
612.	...	"	14.34	2.44
613.	...	"	11.51	2.95
614.	...	"	6.75	4.88
615.	...	"	8.84	2.94
616.	...	"	13.14	2.51
617.	...	"	10.72	4.01
618.	...	"	5.51	5.44
619.	...	"	9.99	3.00
620.	...	"	14.40	2.78
626.	...	Juice	14.83	3.54
629.	...	"	13.36	2.14
630.	...	"	11.25	2.94
631.	...	"	9.48	5.93