TABLE 4.—ADVERTISING OUTLAY AND AVERAGE EARNINGS OF 29 DRUG MANUFACTURERS

Advertising expenditures in 1966	Number of companies		Advertising as percent of sales	Average earnings on stockholder investment ¹ (percent)	Standard deviation (percent)
Over \$50,000,000 1 \$10,000,000 to \$50,000,000 2 Under \$10,000,000 Total	5 9 15 29	-	24. 1 11. 9 (³)	29. 2 19. 7 17. 3 20. 1	5. 8 6. 6 8. 3 8. 6

Relationship between product differentiation and profits

To test the hypothesis that product differentiation caused profit variance is largely responsible for the statistical association uncovered by Conrad and Plotkin, we have analyzed separately their consumer goods and producer goods manufacturing industries. Product differentiation, of course, shows up primarily in consumer goods.

Figure 4 shows all the industries used by Conrad and Plotkin. They find a modest degree of correlation between intra-industry profit variance and profits using one measure of profit rates.³³

Figure 5A shows the plotted observations of the consumer goods industries used in the Conrad-Plotkin analysis, and Figure 5B shows the plotted observations of the producer goods industries.³⁴ Among consumer goods industries there is a quite strong positive relationship, whereas among producer goods industries the relationship is very weak, and is not statistically significant.

Simple average of after-tax earnings for the period 1961-65.
2 Drug companies included in the Conrad-Plotkin study with advertising expenditures of \$10,000,000 or more in 1966, as reported in Advertising Age, Aug. 28, 1967, p. 36.
Not available.