APPENDIX - VI

RELIABILITY COEFFICIENTS OF TEN EDUCATIONAL SCALES

(N = 38)

1. Agriculture

$$r = \frac{xy}{x^2 x y^2}$$

$$= \frac{810}{1285 x 769}$$

$$= 810$$

991.66

3. <u>Commerce</u>

$$r = \frac{1375}{3917 \times 41}$$

$$= \frac{1375}{1606}$$

$$= 0.85$$

5. Home Science

$$r = \frac{987}{1565 \times 1014}$$

$$r = 1008$$
 1515×1052

$$r = 856$$
 38.6×29.9
 $= 856$

$$r = \frac{751}{36.7 \times 27.56}$$

APPENDIX

Pearson's
$$r = \underbrace{\angle XY}$$

$$NO' \times O' Y - (I)$$

Here

 $\infty = (x - \overline{x}), \quad Y = (y - \overline{y})$

בעים = standard deviation of series x

y = standard deviation of series y

N = Number of Pairs of observation

r = the (Product moment) correlation Coefficient.

The first formula for computing correlation coefficient.

Correlation can be transformed to the following form which is easier to apply.

Steps:

i. Take the deviations of x series from the mean of x and

denote this deviation by x

- ii) Take the deviations of y series from the mean of y and denote this deviation by y.
- iii) Square these deviations and obtain the total that is \mathbf{x}^2 and \mathbf{y}^2 .
- iv) Multiply the deviations of x and y series and obtain the total that is xy.
- v) Substitute the values of xy, x^2 , y^2 in the above formula and compute r.