

APPENDIX FCalculating of Coefficient of Correlation between

Numbers of divisions and availability of aids :
(as an Example).

Urban Schools

Sr. No. of schools	No. of divisions	Rank 1	No. of available Aids	Rank 2	$R_1 - R_2$ $= D$	D^2
1	13	8	110	10	- 2	4
2	38	2	588	3	1	1
3	35	4	229	1	3	9
4	37	3	420	5	- 2	4
5	23	5	606	2	3	9
6	42	1	430	4	- 3	9
7	21	6	366	6	0	0
8	10	9.5	299	7	2.5	6.25
9	10	9.5	121	9	0.5	0.25
10	15	7	235	8	- 1	1

Total $\sum D = 0$ $\sum D^2 = 43.50$

Spearmans' Co-efficient of
Correlation

$$\begin{aligned} r_s &= 1 - \frac{6 \sum D^2}{N(N^2 - 1)} \\ &= 1 - \frac{6 \times 43.50}{10(10^2 - 1)} \\ &= 1 - \frac{261}{990} \\ &= 1 - 0.26 = 0.74 \end{aligned}$$

Therefore, r is 0.74, this means high correlation between number of divisions and availability of aids in urban schools of Satara taluka.