Stat 8680: Applied Nonparametric Methods

Assignment 5

- **1. Problem 10.9**. (page 317)
- **2. Problem 10.10**. (page 317-318)

STAT 8680 Applied Nonparametric Methods Assignment # 5

In a pharmacological experiment involving β -blocking agents, Sweeting (1982) recorded for a control group of dogs, cardiac oxygen consumption (MVO) and left ventricular pressure (LVP). Calculate the Kendall and Spearman correlation coefficients. Is there evidence of correlation?

Dog	А	В	C	D	E	F	G
MYO LVP		92 33	116 45	90 30		78 24	

10.10 Bardsley and Chambers (1984) gave numbers of beef cattle and sheep on 19 large farms in a region. Is there evidence of correlation?

Cattle	41	0	42	15	47	0	0	0.	56	67	707
Sheep	4716	4605	4951	2745	6592	8 934	9165	5917	2618	1105	150
Cattle Sheep	368 2005	231 3222	104 7150	132 8658	200 6304	172 1800	146 5270	0 1537			