

]	Examp	les
	$ \mathbf{E}_{\mathbf{x}}$	Sweat Rate	Sodium	Potassium	
	 Example 5.1 of J&W (Evaluating T²) Example 5.2 of J&W (Testing a multivariate mean vector with T²): 	3.7	48.5	9.3	
		5.7	65.1	8	
		3.8	47.2	10.9	
_		3.2	53.2	12	
		3.1	55.5	9.7	
		4.6	36.1	7.9	
		2.4	24.8	14	
		7.2	33.1	7.6	
		6.7	47.4	8.5	
		5.4	54.1	11.3	
		3.9	36.9	12.7	
		4.5	58.8	12.3	
		3.5	27.8	9.8	
		4.5	40.2	8.4	
		1.5	13.5	10.1	
		8.5	56.4	7.1	
		4.5	71.6	8.2	
		6.5	52.8	10.9	
		4.1	44.1	11.2	
		5.5	40.9	9.4	33









Purpose of Using Control Charts

Improve Process and Reduce Process Variation

- 1. Most processes <u>do not</u> operate in a state of statistical control.
- 2. Consequently, the routine and attentive use of control charts will identify assignable causes. If these causes can be eliminated from the process, variability will be reduced and the process will be improved.
- 3. The control chart will only <u>detect</u> the occurrence of assignable causes. Management, operator, and engineering action will usually be necessary to <u>identify and eliminate</u> the assignable cause.

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