

ECE 341 - Homework #15

F-Test and ANOVA. Summer 2023

Test of a 3+ Populations

1) The average temperature in Fargo for the past 10 years is: (units: degrees F)

- Source: Hector Airport

		mean	std	n
A	Dec	15.8800	6.2097	10
B	Jan	12.9380	5.0091	10
C	Feb	12.3210	8.2684	10

Determine if the means are the same using an ANOVA test.

2) The global average temperature for three decades are (units: degrees C x 1000)

- source: NASA Goddard

		mean	std	n
A	1880-1889	-169.2	81.8	10
B	1890 - 1899	-237.5	92.68	10
C	1900 - 1909	-302.5	130.8	10

Determine if the means are the same using an ANOVA test.

3) The global average temperature for three time-spans are (units: degrees C x 1000)

		mean	std	n
A	1880-1889	-169.2	81.8	10
B	1940 - 1959	41.05	133.4	20
C	1992 - 2021	628.94	203.63	30

Determine if the means are the same using an ANOVA test.