

INSTITUTO PRIVADO RAFAEL ARÉVALO MARTÍNEZ
IPRAM



Litzy Rosita De León Ramírez

4to Perito en Admón. de Empresas

Catedra: Estadística

Catedrático: Josué Estrada

4TO BLOQUE
SEMANA No.2

Ciclo Escolar:

2,021

Semana #2

4to Admón
Litzzy de León

1- Importación de Pexas en millones de dólares

R, DM y S.

Año	X	$(X - \bar{X})$	$(X - \bar{X})^2$
2011	12.97	-1.03	1.061
2012	13.9	-0.1	0.010
2013	14.67	0.67	0.449
2014	14.43	0.43	0.185
2015	14.05	0.05	0.003
	70.02	2.28	1.71

$$\bar{X} = \frac{70.02}{5} = 14.00$$

$$DM = \frac{\sum (X - \bar{X})}{N}$$

$$R = Dma - Dme$$

$$DM = \frac{2.28}{5} = 0.46$$

$$R = 1.7$$

$$S = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

$$\bar{X} = 14.00$$

$$R = 1.7$$

$$S = \sqrt{\frac{1.71}{5}}$$

$$DM = 0.46$$

$$S = \sqrt{0.34}$$

$$S = 0.58$$

$$S = 0.58$$

Litzy De León.

2.- Proyección de crecimiento económico de un año (en porcentajes).

Países	X	(X - $\bar{X}$)	(X - $\bar{X}$) ²
Guatemala	2.5	0.82	0.67
El Salvador	2.5	0.82	0.67
Honduras	3.1	0.22	0.05
Nicaragua	3.3	0.32	0.10
Costa Rica	3.4	0.08	0.01
Panamá	5.4	2.08	4.33
	19.9	-4.34	5.83

$$\bar{X} = \frac{\sum X}{N}$$

$$\bar{X} = \frac{19.9}{6} = 3.32$$

$$R = D_{ma} - D_{me}$$

$$R = 5.4 - 2.5 = 2.9$$

$$DM = \frac{\sum (X - \bar{X})^2}{N}$$

$$DM = \frac{5.83}{6} = 0.97$$

$$S = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

$$S = \sqrt{\frac{5.83}{6}}$$

$$S = \sqrt{0.97}$$

$$S = 0.99$$

$$\bar{X} = 3.32 \checkmark$$

$$DM = 0.97 \checkmark$$

$$R = 2.9 \checkmark$$

$$S = 0.99 \checkmark$$

Litzy De León.

3.- Volumen de importación de carne de pollo en libras de Estados Unidos a Guatemala en los siguientes años:

Años	X	$(X - \bar{X})$	$(X - \bar{X})^2$
2011	162,812	-64,104.83	4,109,429,230
2012	186,978	-39,938.83	1,595,110,142
2013	195,335	-31,581.83	997,411,986.1
2014	242,484	15,570.17	242,301,93.8
2015	277,390	50,473.17	2,547,540,890
2016	296,499	69,582.17	4,841,678,282
	1,361,501	-241,252	14,333,646,936

$$\bar{X} = \frac{\sum X}{N}$$

$$\bar{X} = \frac{1,361,501}{6} = 226,916.83$$

$$DM = \frac{\sum (X - \bar{X})}{N}$$

$$DM = \frac{-241,252}{6} = -40,208.5$$

$$S = \sqrt{\frac{\sum (X - \bar{X})^2}{N}}$$

$$S = \sqrt{\frac{14,333,646,936}{6}}$$

$$S = \sqrt{2,388,941,156}$$

$$S = 48,876.80$$

$$R = Dma - Dmc$$

$$R = \frac{296,499 - 162,812}{6} = 133,687$$

$$\bar{X} = 226,916.83 \checkmark$$

$$Dm = -40,208.5 \checkmark$$

$$R = 133,687 \checkmark$$

$$S = 48,876.80 \checkmark$$