

Importación de Peras en millones de dólares

Años	Millones de Quetzales	$ x - \bar{x} $	$(x - \bar{x})^2$
2011	12.97	1.03	1.06
2012	13.90	0.10	0.01
2013	14.67	0.67	0.45
2014	14.43	0.43	0.18
2015	14.05	0.05	0.0025
	70.02	2.28	1.70

$$14 - 12.97 = 1.03$$

$$14 - 13.90 = 0.10$$

$$14 - 14.67 = -0.67$$

$$14 - 14.43 = -0.43$$

$$14 - 14.05 = -0.05$$

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

$$\bar{x} = \frac{70.02}{5}$$

$$\bar{x} = 14$$

$$D.M = \frac{\sum |x - \bar{x}|}{N}$$

$$D.M = \frac{2.28}{5}$$

$$D.M = 0.46$$

$$S = \sqrt{\frac{1.70}{5}}$$

$$S = \sqrt{0.34}$$

$$S = 0.58$$

$$R = 14.67 - 12.97 =$$

$$R = 1.70$$

Proyección de crecimiento económico de un año (en Porcentajes)

País	%	$ 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	0.32	0.10
Costa Rica	3.4	0.08	0.01
Panamá	5.4	2.08	4.33
	19.90	4.34	5.83

$$\bar{X} = \frac{19.90}{6}$$

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

$$D.M = \frac{4.34}{6}$$

$$D.M = \underline{\underline{0.72}}$$

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

$$S = \sqrt{0.97}$$

$$S = \underline{\underline{0.98}}$$

$$R = 5.4 - 2.5$$

$$R = \underline{\underline{2.9}}$$

Volumen de importación de carne de pollo, en libras de Estados Unidos a Guatemala en los siguientes años

Año	Libras	$ x - \bar{x} $	$(x - \bar{x})^2$
2,011	162,812	64,105	4,109,451,025
2,012	186,978	39,939	1,595,133,721
2,013	198,335	31,582	997,422,724
2,014	242,487	15,570	242,430,1938
2,015	277,390	50,473	2,547,540,890
2,016	296,499	69,582	4,841,683,882
		1,361,501	271,251

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

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

$$D.M = \frac{271,251}{6}$$

$$D.M = \underline{\underline{45,208.5}}$$

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

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

$$S = \underline{\underline{48,876.80}}$$

$$R = 296,499 - 162,812 =$$

$$R = \underline{\underline{133,687}}$$