Anni	Variabile Y
2002	**99**
2003	**232**
2004	**345**
2005	**380**
2006	**410**
2007	**375**
2008	**320**
2009	**300**
2010	**205**
totale	**2666**

Adattamento

Calcolo con gli scarti

x	x - M_x	y_i	$\bar{x}^2$	$\bar{x}^3$	$\bar{x}^4$	$\bar{x}*y$	$\bar{x}^2*y$	$(y-My)^2$	y^2	f($\bar{x}$)	y-f($\bar{x}$)	$(y-f(\bar{x}))^2$
1	-4,0	**99**	16	-64,00	256,00	-396	1584,00	38897	9801	**115,4061**	-16,41	269,159
2	-3,0	**232**	9	-27,00	81,00	-696	2088,00	4124,5	53824	**231,9182**	0,08	0,00669
3	-2,0	**345**	4	-8,00	16,00	-690	1380,00	2379,3	119025	**317,8697**	27,13	736,053
4	-1,0	**380**	1	-1,00	1,00	-380	380,00	7018,7	144400	**373,2606**	6,74	45,4194
5	0,0	**410**	0	0,00	0,00	0	0,00	12945	168100	**398,0909**	11,91	141,826
6	1,0	**375**	1	1,00	1,00	375	375,00	6205,9	140625	**392,3606**	-17,36	301,391
7	2,0	**320**	4	8,00	16,00	640	1280,00	565,38	102400	**356,0697**	-36,07	1301,02
8	3,0	**300**	9	27,00	81,00	900	2700,00	14,272	90000	**289,2182**	10,78	116,248
9	4,0	**205**	16	64,00	256,00	820	3280,00	8321,5	42025	**191,8061**	13,19	174,08
45	0	**2666**	60	0	708	573	13067	80472	870200	**2666,0000**	0,00	3085,21

M_x = 5 **M_y= 296,22** **Var(y)= 8941,28**

$$\begin{cases} \sum y = na_0 + a_2 \sum \bar{x}^2 \\ \sum \bar{x}y = a_1 \sum \bar{x}^2 \\ \sum \bar{x}^2 y = a_0 \sum \bar{x}^2 + a_2 \sum \bar{x}^4 \end{cases}$$

Sistema Ridotto

$$\begin{cases} 2666 = 9\,a_0 + 60\,a_2 \\ 573 = 60\,a_1 \\ 13067 = 60\,a_0 + 708\,a_2 \end{cases}$$

a_1= 9,55

D_0= 2772 D_1= 1103508 **a_0=** D_1/D_0 = **398,09**

D_2= -42357 **a_3 =** D_2/D_0= **-15,28**

f(x)= 398,091 + 9,55 x + -15,2803 x^2

$$\eta = \sqrt{\sum_{i=1}^{n} [(y_i - f(x_i)]^2 / n} = \sqrt{3085,21 / 9} =$$ **18,51488**

η^2 = 342,8007

$$R^2 = 1 - \frac{\eta^2}{\sigma_y^2}$$ **R^2=** $1 - \frac{342,8007}{89413} =$ **0,9617**