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LOCAL DEVELOPMENT II
URBAN PROJECT

DMOD

Submitted to

USAID / CAIRO

Submitted by

WILBUR SMITH ASSOCIATES

in association with

PUBLIC ADMINISTRATION SERVICE

DEVELOPMENT CONSULTING OFFICE

DELOITTE HASKINS AND SELLS

ENGINEERING AND GEOLOGICAL CONSULTING OFFICE

Local Development II Urban Project

Programming & Budgeting

Technical Paper

FIVE YEAR REVENUE FORECASTS

FOR

CAIRO AND QALIUBIA GOVERNORATES

December, 1988

Five Year Revenue Forecast For
Cairo and Qaliubia Governorates

Preamble

This volume contains the five year revenue forecasts for the period 1988/89 - 1992-93. These forecasts are based on historical (5 year) actual revenue collections as it appears in the official Final Account Statement. The revenue forecasts set the basis required for developing the annual budget expenditure side for 1989-90 and there on.

The forecasts are based on known Statistical Analysis Techniques. In a separate volume is detailed User's Guide to help the Governorate generate forecasts based on time trends of historical revenue data. This first step, time tending uses two models, a linear regression and a quadratic regression model. The computer system that is used to accomplish these calculations is the Lotus 123 software package installed in the governorate in the summer of 1988 along with the new LD II Urban Computers.

For example, looking at Total BAB I Revenues as it appears in this volume we notice the following:

(i) Linear regression in found to be statistically a better fit to the historical revenue data (R squared = 0.72 and Student t significant at the 99% confidence level)

(ii)

Revenue Item BAB I Year	Revenue Forecasts 1989-1990 (LE)
1988-89	80,494,688
1989-90	86,385,585
1990-91	92,276,483
1991-92	98,167,380
1992-93	104,058,278

(iii) In other cases the quadratic forecasts provide a better fit, the forecast quadratic figures should be used (based on R squared and the Student t test).

The TAC will provide necessary training and technical assistance to OMED/MIS staff to familiarize them with the forecasting model and the User's guide. In case the reader desire a more in-depth explanation of revenue sources and the computer system, the two additional volumes of the report: Revenue Sources for Urban Governorates and Five Year Forecasting Model User's Guide should be very helpful.

The Forecasting model based on time trend is a major step that sets the necessary tools for improved governorate budgeting because:

(i) it provides the necessary data base and all needed analysis tools.

(ii) it paves the way for the second step for which a more sophisticated model using revenue drivers can begin.

Once training is completed, the TAC will coordinate a general seminar for presentation of this report, including a discussion on this new modeling as an improvement over the existing procedures currently followed in the urban governorate.

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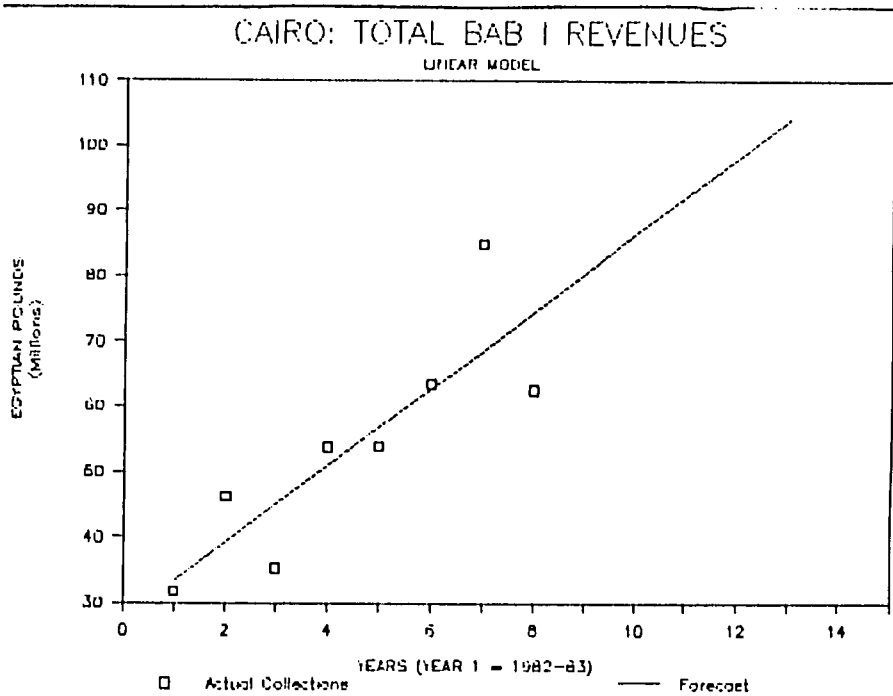

TOTAL BAB I

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	31,718,000	1	1	33,367,507	31,590,884
81-82	46,204,000	2	4	39,258,405	39,004,601
82-83	35,329,103	3	9	45,149,302	45,910,712
83-84	53,664,099	4	16	51,040,200	52,309,216
84-85	53,888,128	5	25	56,931,097	58,200,114
85-86	63,545,747	6	36	62,821,995	63,583,405
86-87	64,872,676	7	49	68,712,892	68,459,093
87-88	62,663,436	8	64	74,603,790	72,927,167
88-89		9	81	80,494,688	76,687,638
89-90		10	100	86,385,585	80,040,502
90-91		11	121	92,276,483	82,885,760
91-92		12	144	98,167,380	85,223,411
92-93		13	169	104,058,278	87,053,456

AC=con+Year

Regression Output:

Constant	27476609.7
Std Err of Y Est	9727773.51
R Squared	0.71965618
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	5890897.
Std Err of Coef.	1501028.

AC=con+Year+Year^2

Regression Output:

Constant	23669559	
Std Err of Y Est	10554198	
R Squared	0.724999	
No. of Observations	8	
Degrees of Freedom	5	
X Coefficient(s)	8175127.	-253603.
Std Err of Coef.	7507236.	814274.1

EXAMPLE

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.719656	0.719656	3.924575272	6	@ 95%
Quadratic	0.724999	0.005343	0.311692723	5	NO

CAIRO

5 YEAR REVENUE FORECASTS

1988-89 - 1991-92

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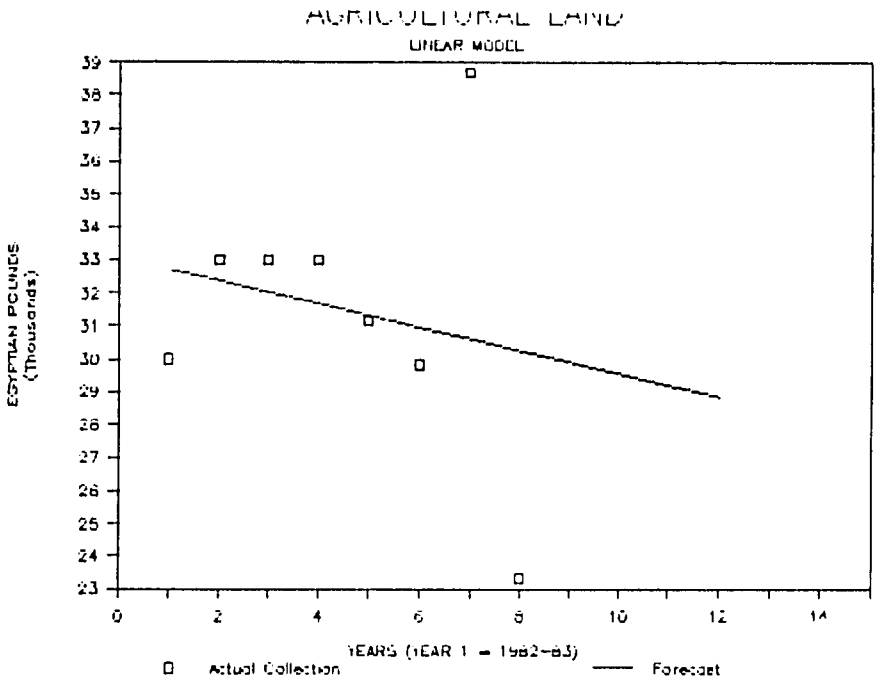


GOVERNORATE : Cairo
BAB I

ITEM 1 : AGRICULTURAL LAND (total only)

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	33,000	1	1	32,735	30,055
81-82	33,000	2	4	32,380	31,998
82-83	33,000	3	9	32,026	33,173
83-84	33,000	4	16	31,671	33,563
84-85	31,132	5	25	31,316	33,226
85-86	29,818	6	36	30,961	32,109
86-87	38,687	7	49	30,607	30,224
87-88	23,311	8	64	30,252	27,575
88-89		9	81	29,897	24,160
89-90		10	100	29,542	19,981
90-91		11	121	29,187	15,037
91-92		12	144	28,833	9,328
92-93		13	169	28,478	2,854

AC=con+Year

Regression Output:

Constant	33090.0357
Std Err of Y Est	4571.47383
R Squared	0.04045597
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	-354.785
Std Err of Coef.	705.3937

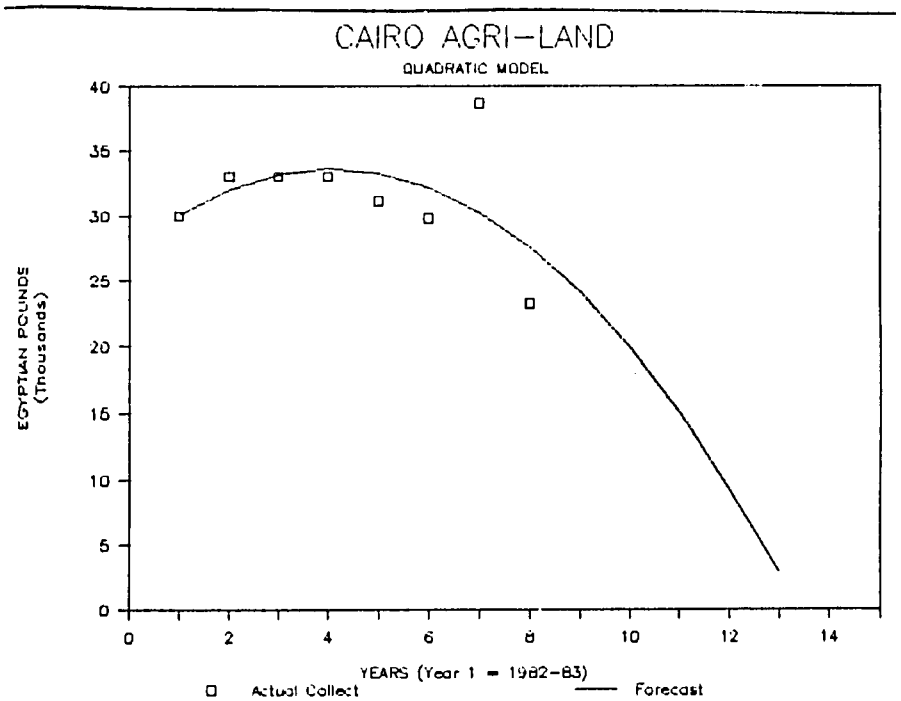
AC=con+Year+Year^2

Regression Output:

Constant	27355.4[illegible]
Std Err of Y Est	4450.3[illegible]
R Squared	0.22645[illegible]
No. of Observations	[illegible]
Degrees of Freedom	[illegible]
X Coefficient(s)	5087.176 -382.44[illegible]
Std Err of Coef.	3154.035 340.441[illegible]

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.040455	0.040455	0.502961255	6	NO
Quadratic	0.228490	0.188034	1.103909605	5	NO



ITEM 1 : AGRICULTURAL LAND (total only)

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	30,000	1	1	32,735	30,[illegible]
81-82	33,000	2	4	32,330	31,[illegible]
82-83	33,000	3	9	32,[illegible]	33,[illegible]
83-84	33,000	4	16	31,671	33,[illegible]
84-85	31,132	5	25	31,316	33,[illegible]
85-86	29,818	6	36	30,961	32,[illegible]
86-87	38,687	7	49	30,607	30,[illegible]
87-88	23,311	8	64	30,252	27,[illegible]
88-89		9	81	29,897	24,[illegible]
89-90		10	100	29,542	19,[illegible]
90-91		11	121	29,187	15,[illegible]
91-92		12	144	28,833	9,[illegible]
92-93		13	169	28,478	2,[illegible]

AC=con+Year

Regression Output:

Constant	33090.0357
Std Err of Y Est	4571.47323
R Squared	0.04045537
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	-354.755
Std Err of Coef.	705.3337

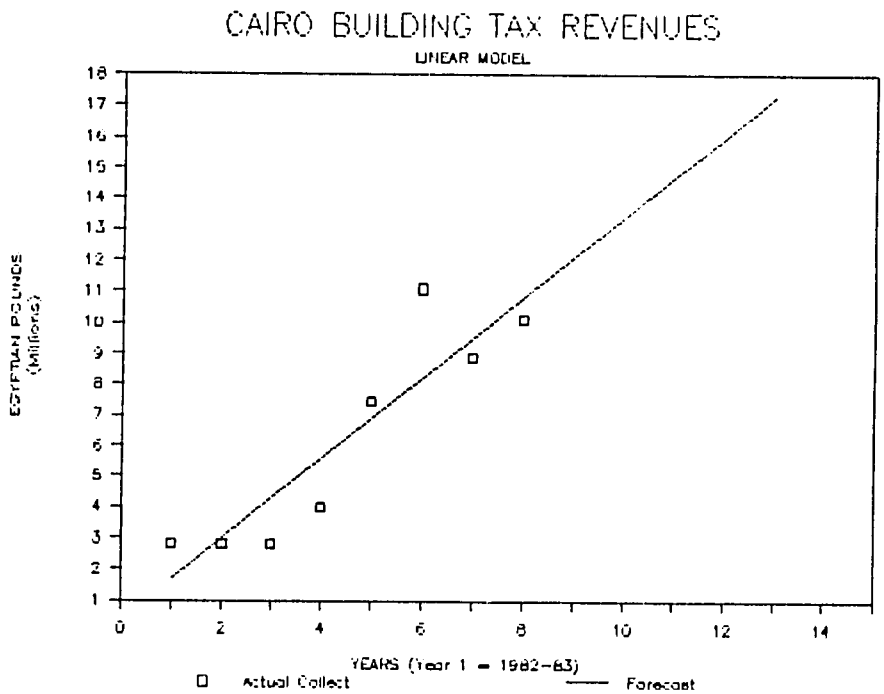
AC=con+Year+Year^2

Regression Output:

Constant	27353.42	
Std Err of Y Est	4430.339	
R Squared	0.228493	
No. of Observations	8	
Degrees of Freedom	5	
X Coefficient(s)	3387.178	-382.443
Std Err of Coef.	3164.035	346.4413

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.040455	0.040455	0.502961255	6	NO
Quadratic	0.228493	0.188034	1.163909605	5	NO



ITEM 2 : Buildings

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	2,826,000	1	1	1,064,674	1,854,399
81-82	2,826,000	2	4	2,367,550	3,066,339
82-83	2,826,000	3	9	4,290,426	4,226,266
83-84	4,000,000	4	16	5,533,302	5,456,356
84-85	7,429,452	5	25	6,836,179	6,789,232
85-86	11,055,323	6	36	8,133,055	8,154,857
86-87	8,864,541	7	49	9,501,931	9,523,320
87-88	10,150,278	8	64	10,864,807	10,854,533
88-89		9	81	12,107,683	12,426,523
89-90		10	100	13,410,560	13,545,293
90-91		11	121	14,713,436	15,504,641
91-92		12	144	16,016,312	17,107,168
92-93		13	169	17,319,188	18,752,274

AC=con+Year

Regression Output:

Constant	361797.535
Std Err of Y Est	1597677.18
R Squared	0.823167555
No. of Observations	6
Degrees of Freedom	6
X Coefficient(s)	1302870.
Std Err of Coef.	246526.9

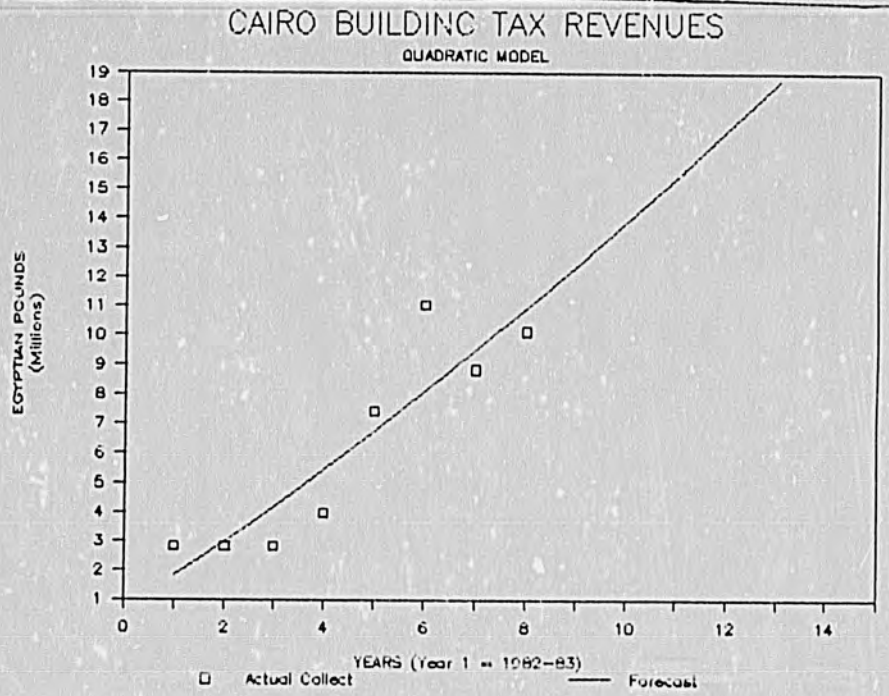
AC=con+Year+Year^2

Regression Output:

Constant	702637.5
Std Err of Y Est	1745770.
R Squared	0.824054
No. of Observations	6
Degrees of Freedom	5
X Coefficient(s)	1110372. 21369.33
Std Err of Coef.	1241772. 134683.1

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.823167	0.823167	5.284924244	6	@ 99+%
Quadratic	0.824054	0.000887	0.158805204	5	NO



ITEM 2 : Buildings

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
81-82	2,826,000	1	1	1,824,474	1,834,033
82-83	2,826,000	2	4	2,997,880	3,008,033
83-84	2,826,000	3	9	4,033,428	4,026,033
84-85	4,000,000	4	16	5,593,012	5,456,033
85-86	7,423,482	5	25	6,835,179	6,789,033
86-87	11,065,303	6	36	8,139,155	8,134,037
86-87	8,864,341	7	49	9,450,131	9,503,033
87-88	10,130,273	8	64	10,854,107	10,954,033
88-89		9	81	12,157,033	12,426,033
89-90		10	100	13,410,550	13,945,033
90-91		11	121	14,713,436	15,504,041
91-92		12	144	16,016,312	17,107,153
92-93		13	169	17,319,156	18,752,274

AC=con+Year

Regression Output:

Constant	381797.555
Std Err of Y Est	1597677.13
R Squared	0.82316755
No. of Observations	5
Degrees of Freedom	4
X Coefficient(s)	1302376.
Std Err of Coef.	246528.9

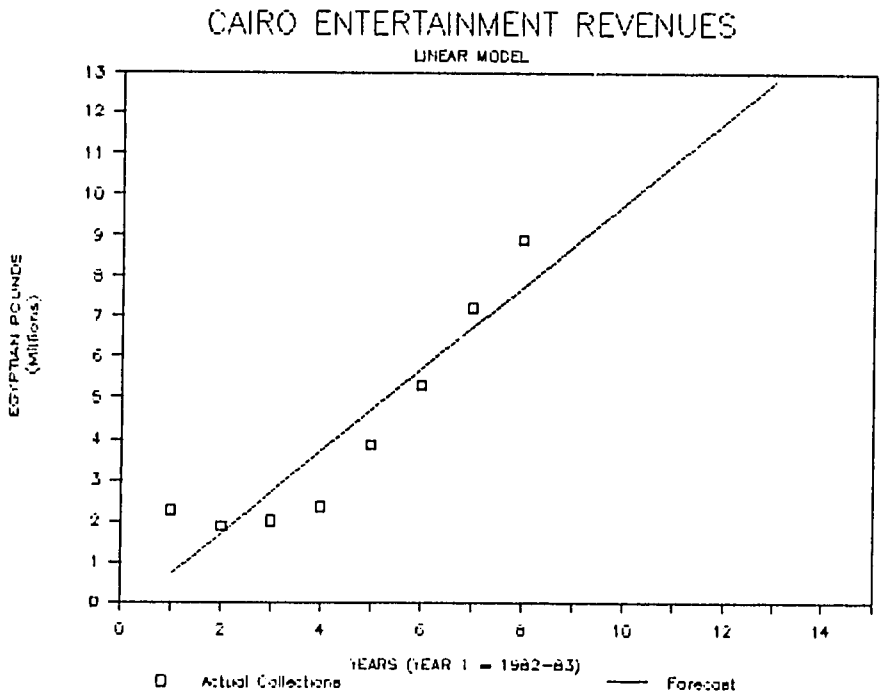
AC=con+Year+Year 2

Regression Output:

Constant	702637.5	
Std Err of Y Est	1745772.	
R Squares	0.824054	
No. of Observations	5	
Degrees of Freedom	5	
X Coefficient(s)	1110372.	21389.33
Std Err of Coef.	1241772.	134653.1

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.823167	0.823167	5.284924244	3	@ 99+%
Quadratic	0.824054	0.000887	0.155805234	5	$0



ITEM 3 : Entertainment

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	2,262,000	1	1	701,653	2,129,316
81-82	1,900,000	2	4	1,711,043	1,914,967
82-83	2,000,000	3	9	2,720,234	2,106,463
83-84	2,350,000	4	16	3,729,424	2,709,807
84-85	3,865,476	5	25	4,738,615	3,716,997
85-86	5,316,240	6	36	5,747,805	5,136,034
86-87	7,239,637	7	49	6,756,995	6,360,319
87-88	8,916,802	8	64	7,766,186	9,193,859
88-89		9	81	8,775,376	11,834,239
89-90		10	100	9,784,567	14,862,685
90-91		11	121	10,793,757	18,338,927
91-92		12	144	11,802,948	22,203,047
92-93		13	169	12,812,138	26,475,014

AC=con+Year

Regression Output:

Constant	-367337.5
Std Err of Y Est	1107590.72
R Squared	0.8531886 71
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	1009190.
Std Err of Coef.	170604.9

AC=con+fear+Year^2

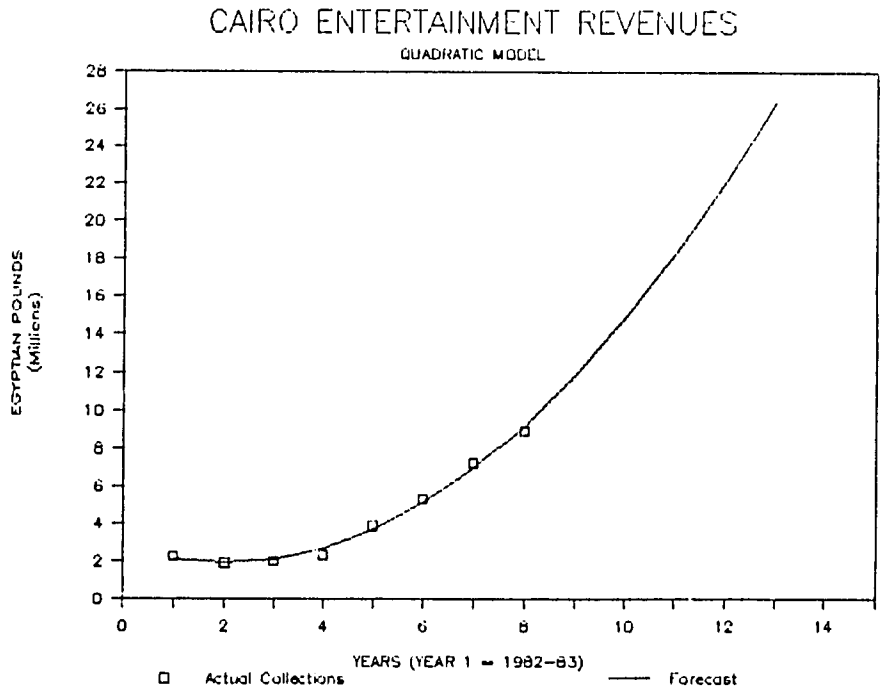
Regression Output:

Constant	2751515.
Std Err of Y Est	273604.3
R Squared	0.992534
No. of Observations	8
Degrees of Freedom	5
X Coefficient(s)	-826121. 203523.5
Std Err of Coef.	194615.6 21109.03

STUDENT'S T TEST

Signif.

	Regression R squared	Increase	Student's t	df	
Linear	0.853188	0.853188	5.904580319	6	@ 99+%
Quadratic	0.992534	0.139345	9.660466504	5	@ 99+%



ITEM 3 : Entertainment

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	2,262,000	1	1	701,353	2,129,215
81-82	1,900,000	2	4	1,711,243	1,914,357
82-83	2,000,000	3	9	2,720,234	2,108,453
83-84	2,350,000	4	16	3,729,424	2,709,837
84-85	3,885,475	5	25	4,735,615	3,718,397
85-86	5,318,240	6	36	5,747,835	5,136,334
86-87	7,233,837	7	49	6,755,335	6,960,313
87-88	8,916,802	8	64	7,766,186	9,193,650
88-89		9	81	8,775,376	11,634,229
89-90		10	100	9,784,567	14,882,655
90-91		11	121	10,793,757	18,338,927
91-92		12	144	11,802,948	22,203,047
92-93		13	169	12,812,138	26,475,014

AC=con+Year

Regression Output:

Constant	-307337.5
Std Err of Y Est	1107550.72
R Squared	0.85318571
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	1009130.
Std Err of Coef.	170904.9

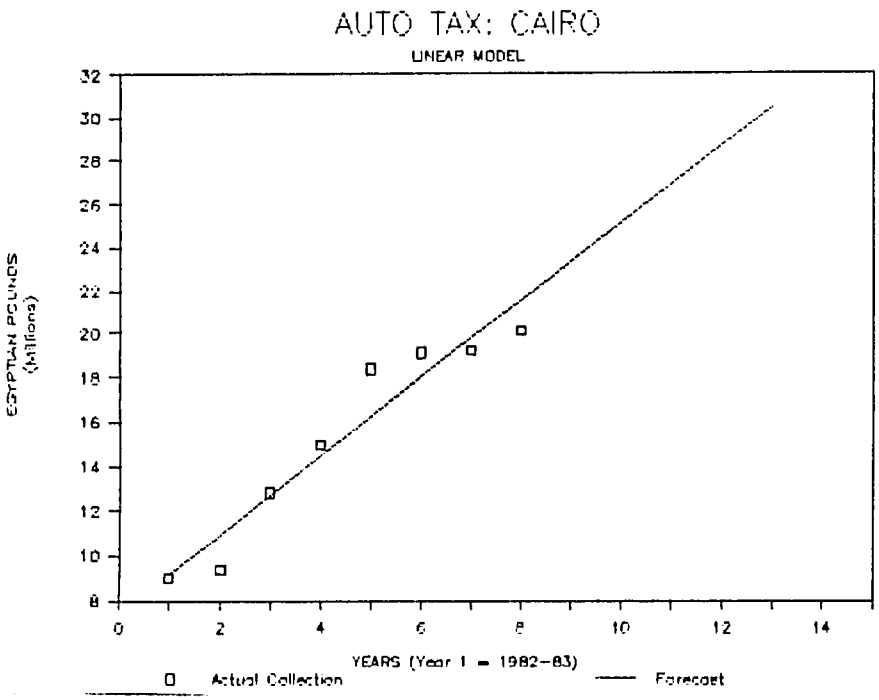
AC=con+Year+Year^2

Regression Output:

Constant	2751615.
Std Err of Y Est	273694.3
R Squared	0.992534
No. of Observations	8
Degrees of Freedom	5
X Coefficient(s)	-[illegible]121. 203923.5
Std Err of Coef.	194615.6 21109.03

Regression STUDENT'S T TEST Signif.

	R squared	Increase	Student's t	df	
Linear	0.853188	0.853188	5.304980319	6	@ 99+%
Quadratic	0.992534	0.139345	9.650486504	5	@ 99+%



ITEM 4 : Automobile

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	9,000,000	1	1	9,145,525	7,899,710
81-82	9,350,000	2	4	10,923,102	10,745,129
82-83	12,858,000	3	9	12,700,680	13,234,600
83-84	15,000,000	4	16	14,478,257	15,368,125
84-85	18,348,476	5	25	16,255,834	17,145,702
85-86	19,054,615	6	36	18,033,412	19,567,332
86-87	19,224,376	7	49	19,810,989	19,633,015
87-88	20,130,699	8	64	21,588,566	20,342,752
88-89		9	81	23,366,144	20,636,540
89-90		10	100	25,143,721	20,694,392
90-91		11	121	26,921,299	20,335,277
91-92		12	144	28,698,876	19,622,225
92-93		13	169	30,476,453	18,552,225

AC=con+Year

Regression Output:	
Constant	7367947.85
Std Err of Y Est	1333964.62
R Squared	0.925549942
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	1777577.
Std Err of Coef.	205819.7

AC=con+Year+Year^2

Regression Output:	
Constant	4698344.
Std Err of Y Est	1034779.
R Squared	0.962561
No. of Observations	8
Degrees of Freedom	5
X Coefficient(s)	3379333. 177973.
Std Err of Coef.	736041.7 79934.34

	Regression				Signif.
	STUDENT'S T TEST				
	R squared	Increase	Student's t	df	
Linear	0.925549	0.925549	8.636571833	6	@ 99+%
Quadratic	0.962561	0.037111	2.229259955	5	@ 90%

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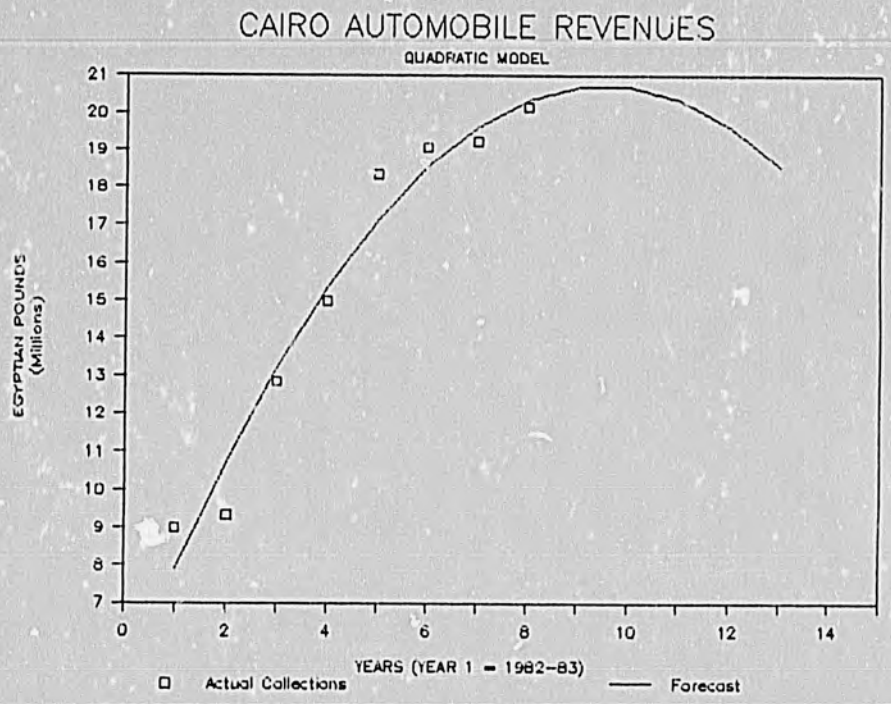

ITEM 4 : Automobile

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	9,000,000	1	1	9,145,525	7,899,710
81-82	9,350,000	2	4	10,923,102	10,745,129
82-83	12,826,000	3	9	12,700,680	13,234,600
83-84	15,000,000	4	16	14,478,257	15,366,125
84-85	13,348,478	5	25	16,255,834	17,145,702
85-86	13,054,615	6	36	18,033,412	18,567,332
86-87	15,224,376	7	49	19,810,989	19,633,015
87-88	20,130,899	8	64	21,588,565	20,342,752
88-89		9	81	23,366,144	20,696,540
89-90		10	100	25,143,721	20,694,382
90-91		11	121	26,921,298	20,336,277
91-92		12	144	28,698,876	19,622,225
92-93		13	169	30,476,453	18,552,225

Actual+Year

Regression Output:

Constant	7367947.65
Std Err of Y Est	1333664.62
R Squared	0.92554342
No. of Observations	6
Degrees of Freedom	6
X Coefficient(s)	1777577.
Std Err of Coef.	205819.7

Actual+Year+Year^2

Regression Output:

Constant	4696344.
Std Err of Y Est	1034779.
R Squared	0.962661
No. of Observations	6
Degrees of Freedom	5
X Coefficient(s)	3379335. -177973.
Std Err of Coef.	736041.7 79534.94

Regression Signif.

STUDENT'S T TEST

	R squared	Increase	Student's t	df	
Linear	0.925543	0.925543	8.635571833	6	# 99.8
Quadratic	0.962661	0.037111	2.223265865	5	# 97%

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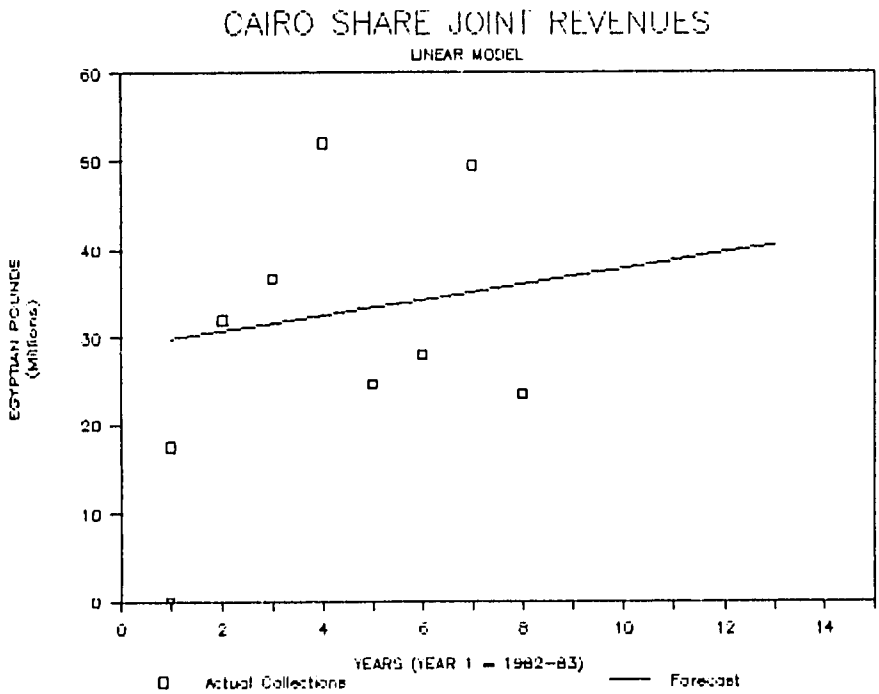


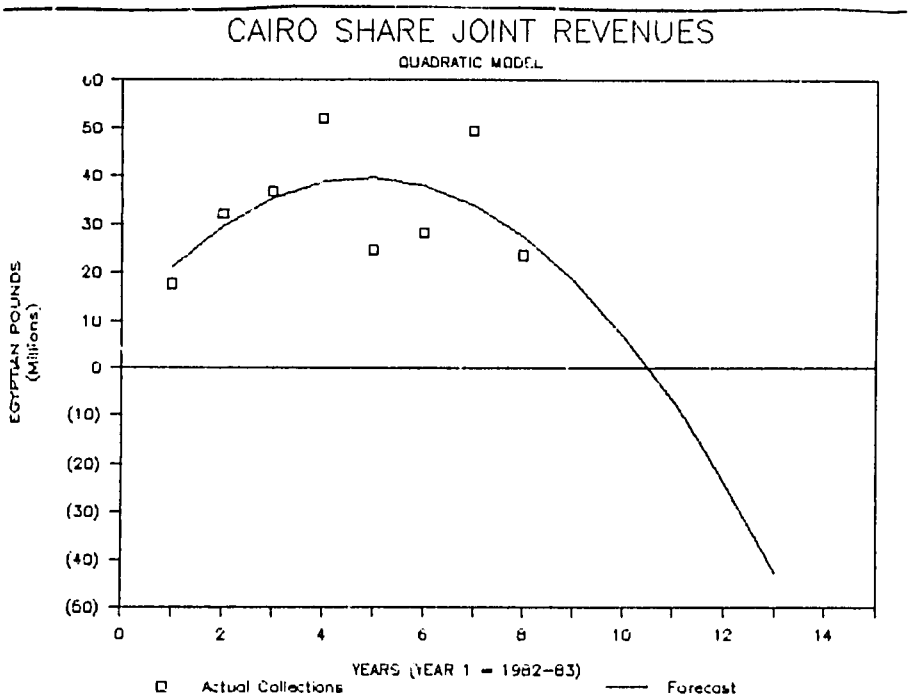
ITEM 5 : Share Joint Revenues (total only)

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic	AC=con+Year		AC=con+Year+Year^2	
						Regression Output:		Regression Output:	
80-81	17,600,000	1	1	29,918,921	21,215,659	Constant	25031558.6	Constant	10382140
81-82	32,055,000	2	4	30,836,283	25,562,989	Std Err of Y Est	13162808.5	Std Err of Y Est	12408922
82-83	36,796,000	3	9	31,693,645	35,423,529	R Squared	0.03063201	R Squared	0.272939
83-84	52,037,000	4	16	32,561,008	38,797,480	No. of Observations	8	No. of Observations	8
84-85	24,614,477	5	25	33,468,370	39,684,842	Degrees of Freedom	6	Degrees of Freedom	5
85-86	28,087,751	6	36	34,355,732	38,085,616				
86-87	49,505,135	7	49	35,213,094	33,999,830	X Coefficient(s)	857362.2	X Coefficient(s)	12077012 -1243294
87-88	23,462,146	8	64	36,130,456	27,427,395	Std Err of Coef.	2031065.	Std Err of Coef.	6883411. 963541.2
88-89		9	81	37,017,819	18,368,401				
89-90		10	100	37,905,181	6,822,818				
90-91		11	121	38,792,543	(7,209,355)				
91-92		12	144	39,679,905	(23,728,116)				
92-93		13	169	40,567,268	(42,733,466)				

Regression Signif.

STUDENT'S T TEST

	R squared	Increase	Student's t	df	
Linear	0.030832	0.030832	0.436894944	6	NO
Quadratic	0.272939	0.242107	1.290338623	5	NO



Mid 5 : Share Joint Revenues (total only)

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	17,600,000	1	1	23,918,921	21,215,859
81-82	32,095,000	2	4	30,836,283	33,562,989
82-83	35,796,000	3	9	31,693,645	35,423,529
83-84	50,037,000	4	16	32,531,008	33,797,460
84-85	24,814,477	5	25	33,465,370	33,684,842
85-86	23,087,751	6	36	34,355,732	38,085,616
86-87	43,505,135	7	49	35,243,094	33,999,890
87-88	33,462,146	8	64	36,130,456	27,427,395
88-89		9	81	37,017,819	18,368,401
89-90		10	100	37,905,181	6,822,818
90-91		11	121	38,792,543	(7,209,355)
91-92		12	144	39,679,905	(23,728,116)
92-93		13	169	40,567,268	(42,733,466)

ACcon+Year

Regression Output:

Constant	29031556.6
Std Err of Y Est	13162808.5
R Squared	0.03083201
No. of Observations	6
Degrees of Freedom	6
X Coefficient(s)	887362.2
Std Err of Coef.	2031065.

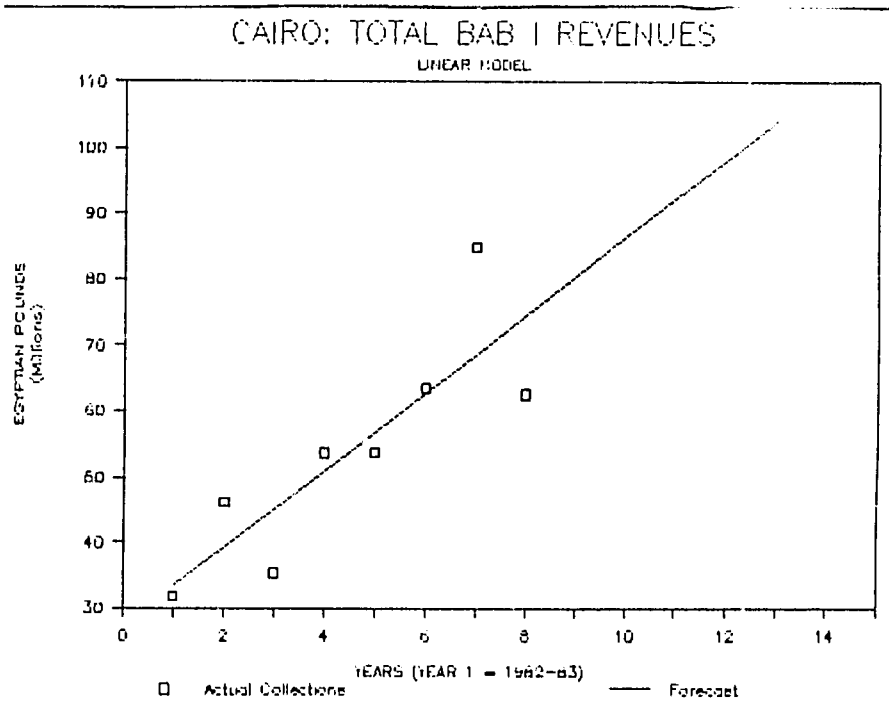
ACcon+Year+Year^2

Regression Output:

Constant	10362149
Std Err of Y Est	12486922
R Squared	0.272939
No. of Observations	6
Degrees of Freedom	5
X Coefficient(s)	12077012 -1243294
Std Err of Coef.	8683411. 963541.2

	Regression				Signif.
	R squared	Increase	Student's t	df	
Linear	0.030832	0.030832	0.436834944	6	N
Quadratic	0.272939	0.242107	1.290338623	5	N

STUDENT'S T TEST



TOTAL BAB I

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	31,718,000	1	1	33,367,507	31,590,864
81-82	46,204,000	2	4	39,258,405	39,004,601
82-83	35,329,103	3	9	45,149,302	45,910,712
83-84	53,664,099	4	16	51,040,200	52,309,216
84-85	53,888,128	5	25	56,931,097	58,200.114
85-86	63,545,747	6	36	62,821,995	63,563,435
86-87	84,872,676	7	49	68,712,892	68,459,089
87-88	62,663,436	8	64	74,603,790	72,627,167
88-89		9	81	80,494,688	76,687,638
89-90		10	100	86,385,585	80,040,502
90-91		11	121	92,276,483	82,885,760
91-92		12	144	98,167,380	85,223,411
92-93		13	169	104.058.278	87,053,456

AC=con+Year

Regression Output:

Constant	27476609.7
Std Err of Y Est	9727773.51
R Squared	0.71965618
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	5890897.
Std Err of Coef.	1501028.

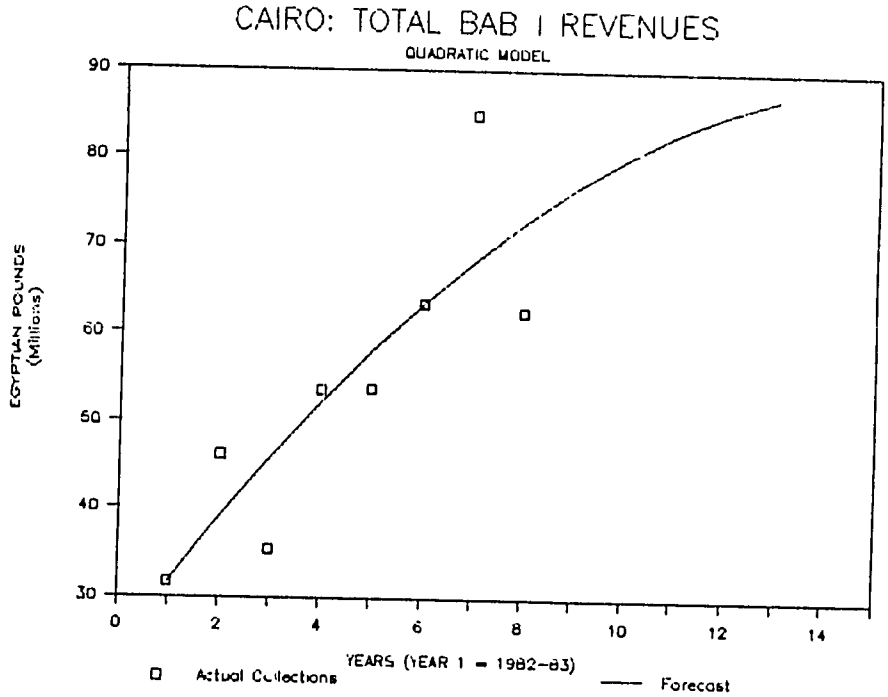
AC=con+Year+Year^2

Regression Output:

Constant	23669559
Std Err of Y Est	19554196
R Squared	0.724999
No. of Observations	8
Degrees of Freedom	5
X Coefficient(s)	6175127. -253603.
Std Err of Coef.	7507236. 814274.1

STUDENT'S T TEST

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.719656	0.719656	3.924575272	6	@ 99%
Quadratic	0.724999	0.005343	0.311692723	5	NO



TOTAL BAB I

Fiscal Year	Actual Collections	Year	Year^2	Forecast Linear	Forecast Quadratic
80-81	31,719,000	1	1	33,367,607	31,590,864
81-82	46,004,000	2	4	39,253,435	39,034,601
82-83	35,889,113	3	9	45,149,262	45,810,712
83-84	53,594,039	4	16	51,040,090	52,039,216
84-85	53,893,129	5	25	56,931,097	53,030,114
85-86	63,845,747	6	36	62,821,905	63,530,405
86-87	64,872,676	7	49	68,712,592	68,459,069
87-88	72,883,435	8	64	74,603,730	72,387,167
88-89		9	81	80,494,856	76,037,638
89-90		10	100	86,385,585	80,340,502
90-91		11	121	92,275,483	82,865,750
91-92		12	144	98,167,380	85,203,411
92-93		13	169	104,058,278	87,353,456

ACtotal=Year

Regression Output:

Constant	27476603.7
Std Err of Y Est	9727773.51
R Squared	0.71955618
No. of Observations	8
Degrees of Freedom	6
X Coefficient(s)	5590897.
Std Err of Coef.	1501028.

ACtotal=Year+Year^2

Regression Output:

Constant	22589459
Std Err of Y Est	11554198
R Squared	0.724999
No. of Observations	8
Degrees of Freedom	5
X Coefficient(s)	8175127. -253503.
Std Err of Coef.	7537236. 814274.1

STUDENT'S T TEST

Regression	R squares	Increase	Student s t	df	Signif.
Linear	0.719556	0.719955	3.324575272	6	@ 99%
Quadratic	0.724999	0.005043	0.311592723	5	NO

ITEM 3 : Commercial Shops
ITEM 3 Variety 1 : Commercial Shops

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	296,149	1	1	231,355	285,809
83-84	267,415	2	4	232,976	294,185
84-85* EST.	304,238	3	9	234,096	298,333
85-86	341,180	4	16	235,217	300,054
86-87	254,581	5	25	236,337	297,546
87-88	304,316	6	36	237,458	291,411
		7	49	238,578	281,648
		8	64	239,698	268,257
		9	81	300,819	251,238
		10	100	301,939	230,591
		11	121	303,060	206,316

AC = CON + YEAR

Regression Output:

Constant	290734.8		
Std Err of Y Est	34201.95		
R Squared	0.004673		
No. of Observations	6		
Degrees of Freedom	4		
X Coefficient(s)	1120.442		
Std Err of Coef.	8175.330		

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	273,505	
Std Err of Y Est	38,971	
R Squared	0.031	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	13,818	(1,814)
Std Err of Coef.	45,609	6,378

2-tailed Student's t test

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.004673	0.004673	0.137043311	4	N
Quadratic	0.030903	0.026130	0.284339991	3	N

ITEM 3 Variety 2 : Clubs and Assoc.

87-88 130,535

NB: 87-88 IS FIRST
YEAR OF THIS

ITEM 3 Variety 3 : Industrial Shops

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	111,008	1	1	135,290	93,258
83-84	116,358	2	4	123,829	132,236
84-85* EST.	120,728	3	9	112,369	145,994
85-86	124,437	4	16	100,908	134,534
86-87	166,086	5	25	89,447	97,854
87-88	553	6	36	77,987	35,955
		7	49	66,526	(51,163)
		8	64	55,065	(163,501)
		9	81	43,605	(301,057)
		10	100	32,144	(463,833)
		11	121	20,684	(651,828)

AC = CON + YEAR

Regression Output:

Constant	146750.4		
Std Err of Y Est	57298.77		
R Squared	0.148955		
No. of Observations	6		
Degrees of Freedom	4		
X Coefficient(s)	-11460.6		
Std Err of Coef.	13697.02		

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	29,061	
Std Err of Y Est	48,378	
R Squared	0.534	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	76,607	(12,510)
Std Err of Coef.	57,320	8,016

2-tailed Student's t test

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.148955	0.148955	0.836722721	4	NO
Quadratic	0.533635	0.384680	1.573070696	3	@ 60%

GOVERNORATE: CAIRO 52

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
ITEM 3 Variety 4 : Cars and Bikes					
82-83	1,557	1	1	1,105	1,413
83-84	397	2	4	870	716
84-85*	421	3	9	636	328
85-86	444	4	16	402	248
86-87	362	5	25	167	475
87-88	N/A	6	36	(67)	1,011
		7	49	(301)	1,855
		8	64	(535)	3,007
		9	81	(770)	4,466
		10	100	(1,004)	6,234
		11	121		

AC = CON + YEAR

Regression Output:	
Constant	1339
Std Err of Y Est	414.2371
R Squared	0.516069
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	-234.3
Std Err of Coef.	130.9932

AC = CON + YEAR + YEAR^2

Regression Output:		Regression	R squared	Increase	Student's t	df	Signif.
Constant	2,417	Linear	0.516069	0.516069	1.788641166	3	@ 60%
Std Err of Y Est	302	Quadratic	0.828197	0.312128	1.906194107	2	@ 80%
R Squared	1						
No. of Observations	5						
Degrees of Freedom	2						
X Coefficient(s)	(1,158)	154					
Std Err of Coef.	494	81					

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
ITEM 3 Var.5 : Comm. & Financial					
82-83	8,439	1	1	6,559	12,389
83-84	14,164	2	4	10,455	9,239
84-85* EST.	13,412	3	9	14,351	9,566
85-86	12,659	4	16	18,246	13,582
86-87	11,898	5	25	22,142	20,976
87-88	37,219	6	36	26,038	31,863
		7	49	29,933	46,258
		8	64	33,829	64,146
		9	81	37,725	85,532
		10	100	41,620	110,416
		11	121	45,516	138,798

AC = CON + YEAR

Regression Output:	
Constant	2663.466
Std Err of Y Est	8356.911
R Squared	0.487371
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	3895.7
Std Err of Coef.	1397.684

AC = CON + YEAR + YEAR^2

Regression Output:		Regression	R squared	Increase	Student's t	df	Signif.
Constant	18,368	Linear	0.487371	0.487371	1.950108186	4	@ 80%
Std Err of Y Est	7,419	Quadratic	0.696949	0.209577	1.440375020	3	@ 60%
R Squared	0.697						
No. of Observations	6						
Degrees of Freedom	3						
X Coefficient(s)	-8347.55	1749.035					
Std Err of Coef.	8683.106	1214.291					

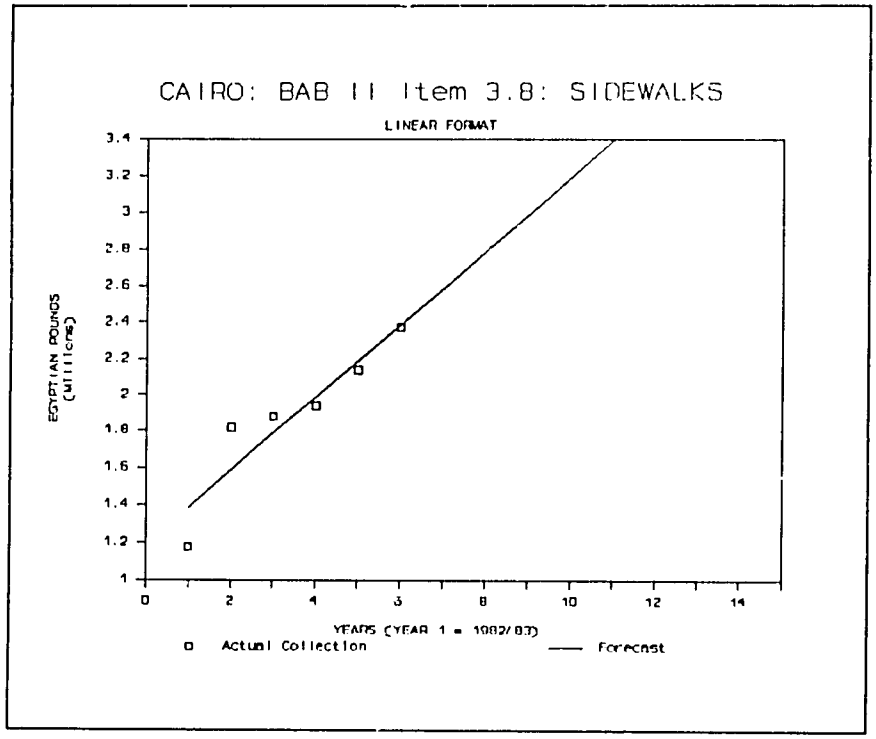
Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
ITEM 3 Variety 6 : Slaughtering					
82-83	410,306	1	1	450,286	413,371
83-84	470,473	2	4	461,783	469,156
84-85* EST.	503,205	3	9	473,280	502,812
85-86	535,937	4	16	484,777	514,309
86-87	469,320	5	25	496,275	503,658
87-88	484,332	6	36	507,772	470,857
		7	49	519,269	415,907
		8	64	530,766	332,309
		9	81	542,264	239,561
		10	100	553,761	118,165
		11	121	565,258	(25,381)

AC = CON + YEAR

Regression Output:	
Constant	438788.5
Std Err of Y Est	40108.93
R Squared	0.264427
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	11497.22
Std Err of Coef.	9587.868

AC = CON + YEAR + YEAR^2

Regression Output:		Regression	R squared	Increase	Student's t	df	Signif.
Constant	335,427	Linear	0.264427	0.264427	1.199143313	4	@ 80%
Std Err of Y Est	24,874	Quadratic	0.787819	0.523391	2.720327226	3	@ 90%
R Squared	.737						
No. of Observations	6						
Degrees of Freedom	3						
X Coefficient(s)	89,019	(11,074)					
Std Err of Coef.	29,111	4,071					

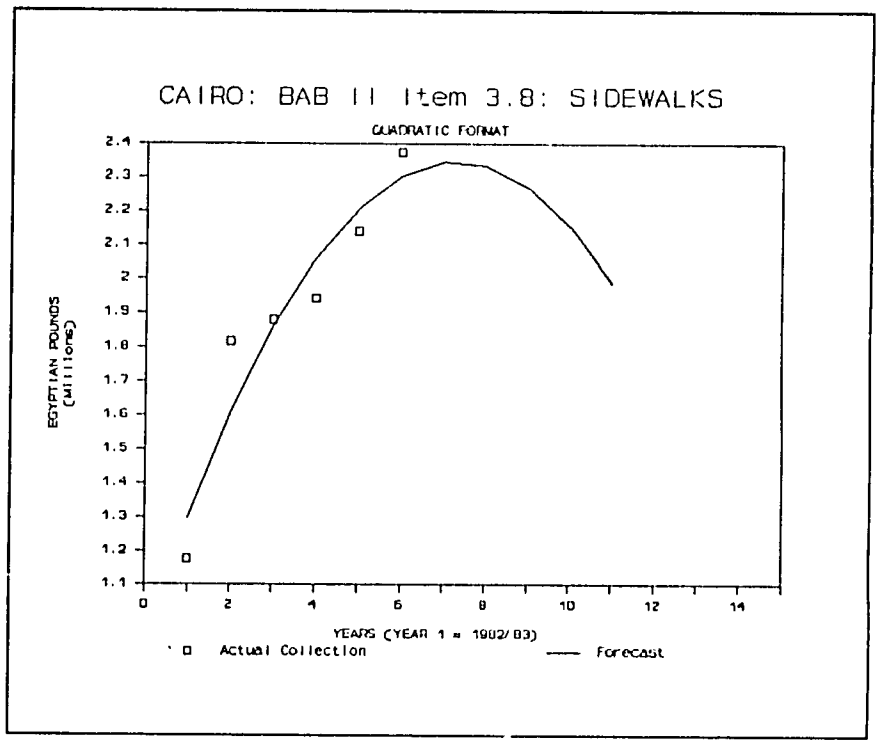


ITEM 3 Variety 8 : Sidewalks

							Regression Output:			Regression Output:			
82-83	1,177,778	1	1	1,387,370	1,299,444	Constant			1186382.	Constant			940,790
83-84	1,817,368	2	4	1,597,757	1,505,342	Std Err of Y Est			165667.2	Std Err of Y Est			167,166
84-85e EST.	1,879,239	3	9	1,788,144	1,858,485	R Squared			0.864854	R Squared			0.90
85-86	1,941,110	4	16	1,988,531	2,058,872	No. of Observations			6	No. of Observations			6
86-87	2,139,989	5	25	2,188,919	2,206,504	Degrees of Freedom			4	Degrees of Freedom			3
87-88	2,374,542	6	36	2,389,306	2,301,360								
		7	49	2,589,693	2,343,501	X Coefficient(s)	200387.2			X Coefficient(s)	385,031	(25,378)	
		8	64	2,790,080	2,332,956	Std Err of Coef.	39606.82			Std Err of Coef.	195,637	27,359	
		9	81	2,990,468	2,269,476								
		10	100	3,190,855	2,153,331								
		11	121	3,391,242	1,994,430								

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.864854	0.864854	5.0594118	4	@ 99%
Quadratic	0.896823	0.031969	0.364135910	3	NO



ITEM 3 Variety 8 : Sidewalks

82-83	1,177,778	1	1	1,387,370	1,299,444	
83-84	1,817,368	2	4	1,587,757	1,605,342	
84-85* EST.	1,879,239	3	9	1,788,144	1,858,495	
85-86	1,941,110	4	16	1,968,531	2,058,872	
86-87	2,139,989	5	25	2,188,919	2,206,504	
87-88	2,374,542	6	36	2,389,306	2,301,360	
		7	49	2,589,693	2,343,591	
		8	64	2,790,080	2,332,666	
		9	81	2,990,468	2,269,476	
		10	100	3,190,855	2,153,331	
		11	121	3,391,242	1,981,130	

Regression Output:

Constant		
Std Err of Y Est		
R Squared		
No. of Observations		
Degrees of Freedom		
X Coefficient(s)	200387.2	
Std Err of Coef.	39606.82	

Regression Output:

1186982. Constant		940,790
165687.2 Std Err of Y Est		167,166
0.864854 R Squared		0.90
6 No. of Observations		6
4 Degrees of Freedom		3
X Coefficient(s)	355,031	(26,378)
Std Err of Coef.	195,637	27,359

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.864854	0.864854	5.0594118	4	@ 99%
Quadratic	0.896823	0.031969	0.964136910	3	NO

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ITEM 3 Variety 7 : Use Sea Beaches N/A

ITEM 3 Variety 9 : Public Parks

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	7,259	1	1	(1,334)	12,519
83-84	9,575	2	4	6,515	3,744
84-85* EST.	9,633	3	9	14,364	3,282
85-86	9,691	4	16	22,214	11,131
86-87	14,095	5	25	30,063	27,292
87-88	59,481	6	36	37,912	51,766
		7	49	45,762	84,551
		8	64	53,611	125,648
		9	81	61,461	175,057
		10	100	69,310	232,778
		11	121	77,159	296,811

AC = CON + YEAR

Regression Output:

Constant	-9183.8
Std Err of Y Est	15673.19
R Squared	0.523200
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	7849.371
Std Err of Coef.	3746.610

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	29,605
Std Err of Y Est	10,611
R Squared	0.8361
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	(21,242) 4,156
Std Err of Coef.	12,418 1,737

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.523200	0.523200	2.095059621	4	@ 80%
Quadratic	0.836097	0.312896	2.393140352	3	@ 90%

ITEM 3 Variety 10: Add'l Gas Fees

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	716,393	1	1	686,653	680,364
83-84	676,511	2	4	722,090	723,228
84-85* EST.	737,254	3	9	757,527	762,079
85-86	797,997	4	16	792,965	797,516
86-87	912,772	5	25	828,402	829,540
87-88	810,549	6	36	863,839	858,150
		7	49	899,277	883,347
		8	64	934,714	905,131
		9	81	970,151	923,501
		10	100	1,005,589	938,457
		11	121	1,041,026	950,000

AC = CON + YEAR

Regression Output:

Constant	651215.4
Std Err of Y Est	57784.992
R Squared	0.62
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	35,437
Std Err of Coef.	13,813

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	635265.9
Std Err of Y Est	66452.168
R Squared	0.6250621
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	47384.43 -1706.732
Std Err of Coef.	77770.13 10875.788

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.521984	0.621984	2.56545712	4	@ 90%
Quadratic	0.625062	0.003077	0.15692950	3	NO

ITEM 3 Var. 11 : Aid'l Fees : Hotel

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	384,226	1	1	387,972	449,235
83-84	537,548	2	4	452,911	440,658
84-85* EST.	509,319	3	9	517,849	468,839
85-86	481,089	4	16	582,787	533,777
86-87	556,896	5	25	647,725	635,473
87-88	832,831	6	36	712,664	773,926
		7	49	777,602	949,137
		8	64	842,540	1,161,106
		9	81	907,479	1,409,832
		10	100	972,417	1,695,315
		11	121	1,037,355	2,017,556

AC = CON + YEAR

Regression Output:

Constant		323,034
Std Err of Y Est		100,353
R Squared		0.647
No. of Observations		6
Degrees of Freedom		4
X Coefficient(s)	64,938	
Std Err of Coef.	23,989	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	434569.3
Std Err of Y Est	95042.611
R Squared	0.7574287
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-63713.1 18378.767
Std Err of Coef.	112400.3 15718.662

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.646838	0.646838	2.70700465	4	@ 90%
Quadratic	0.757428	0.110540	1.16923232	3	@ 60%

ITEM 3 Variety 12 : Birth Certificate

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	85,851	1	1	100,312	99,053
83-84	109,592	2	4	83,436	83,737
84-85* EST.	67,965	3	9	66,660	67,866
85-86	26,238	4	16	49,833	50,840
86-87	43,759	5	25	33,007	33,259
87-88	15,974	6	36	16,181	14,923
		7	49	(645)	(4,168)
		8	64	(17,471)	(24,013)
		9	81	(34,297)	(44,614)
		10	100	(51,123)	(65,970)
		11	121	(67,949)	(88,080)

AC = CON + YEAR

Regression Output:

Constant		117137.6
Std Err of Y Est		19.811
R Squared		0.76
No. of Observations		6
Degrees of Freedom		4
X Coefficient(s)	(16,826)	
Std Err of Coef.	4,736	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	113614.6
Std Err of Y Est	22837.522
R Squared	0.7601871
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-14183.7 -377.4642
Std Err of Coef.	26,727 3,736

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.759371	0.753371	3.55290889	4	@ 95%
Quadratic	0.760187	0.000815	0.10098927	3	NO

GOVERNORATE: CAIRO B2

ITEM 3 Variety 13 : Fishing/Gun Acq

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	2,375	1	1	3,075	1,901
83-84	2,500	2	4	2,830	3,065
84-85* EST.	3,000	3	9	2,585	3,524
85-86	3,500	4	16	2,340	3,279
86-87	3,350	5	25	2,095	2,330
87-88	50	6	36	1,850	676
		7	49	1,605	(1,683)
		8	64	1,360	(4,745)
		9	81	1,115	(8,513)
		10	100	870	(12,384)
		11	121	625	(18,161)

AC = CON + YEAR

Regression Output:

Constant		3,320
Std Err of Y Est		1,316
R Squared		0.13
No. of Observations		6
Degrees of Freedom		4
X Coefficient(s)	(245)	
Std Err of Coef.	315	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		32
Std Err of Y Est		876
R Squared		0.71
No. of Observations		6
Degrees of Freedom		3
X Coefficient(s)	2,221	(352)
Std Err of Coef.	1,025	143

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.131597	0.131597	0.77856281	4	NO
Quadratic	0.711871	0.580273	2.45801071	3	@ 90%

ITEM 3 Var. 14 : Quarries/Mines

N/A

ITEM 3 Variety 15: Building Upgrade

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	401,357	1	1	442,532	432,701
83-84	559,510	2	4	507,541	509,507
84-85* EST.	591,920	3	9	572,550	560,414
85-86	624,329	4	16	637,558	645,423
86-87	658,913	5	25	702,567	704,533
87-88	784,295	6	36	767,576	757,745
		7	49	832,585	805,059
		8	64	897,594	846,474
		9	81	962,602	881,930
		10	100	1,027,611	911,508
		11	121	1,092,620	935,328

AC = CON + YEAR

Regression Output:

Constant		377,523
Std Err of Y Est		39,870
R Squared		0.92
No. of Observations		6
Degrees of Freedom		4
X Coefficient(s)	65,009	
Std Err of Coef.	9,531	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		349,997
Std Err of Y Est		44,847
R Squared		0.92
No. of Observations		6
Degrees of Freedom		3
X Coefficient(s)	85,653	(2,943)
Std Err of Coef.	52,485	7,340

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.920831	0.920831	6.82092529	4	@ 99%+
Quadratic	0.924874	0.004043	0.40181182	3	NO

ITEM 3 Variety 16: Rent/Public Build

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	1,171,390	1	1	1,038,466	1,216,752
83-84	963,530	2	4	1,034,074	998,016
84-85* EST.	1,034,997	3	9	1,029,681	885,452
85-86	1,106,064	4	16	1,025,289	681,060
86-87	456,353	5	25	1,020,897	384,840
87-88	1,430,977	6	36	1,016,505	1,196,731
		7	49	1,012,112	1,516,914
		8	64	1,007,720	1,945,208
		9	81	1,003,328	2,481,675
		10	100	998,935	3,126,313
		11	121	994,543	3,679,122

AC = CON + YEAR

Regression Output:

Constant	1,042,958
Std Err of Y Est	360,282
R Squared	0.00065
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	(4,392)
Std Err of Coef.	86,124

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	1,547,659	
Std Err of Y Est	369,685	
R Squared	0.211	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	(382,993)	54,086
Std Err of Coef.	432,649	60,504

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.000649	0.000649	0.05099930	4	NO
Quadratic	0.210851	0.210201	0.63392225	3	NO

ITEM 3 Varieties 17-19 (no data)

ITEM 3 Variety 20 : Others

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	810,358	1	1	565,791	746,137
83-84	348,412	2	4	506,429	470,360
84-85* EST.	316,733	3	9	447,067	302,791
85-86	235,064	4	16	387,705	243,429
86-87	330,348	5	25	328,343	292,274
87-88	412,297	6	36	268,981	449,327
		7	49	209,619	714,587
		8	64	150,257	1,088,054
		9	81	90,895	1,569,729
		10	100	31,533	2,159,612
		11	121	(27,329)	2,857,701

AC = CON + YEAR

Regression Output:

Constant	625,153
Std Err of Y Est	152,444
R Squared	0.317
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	(59,362)
Std Err of Coef.	43,612

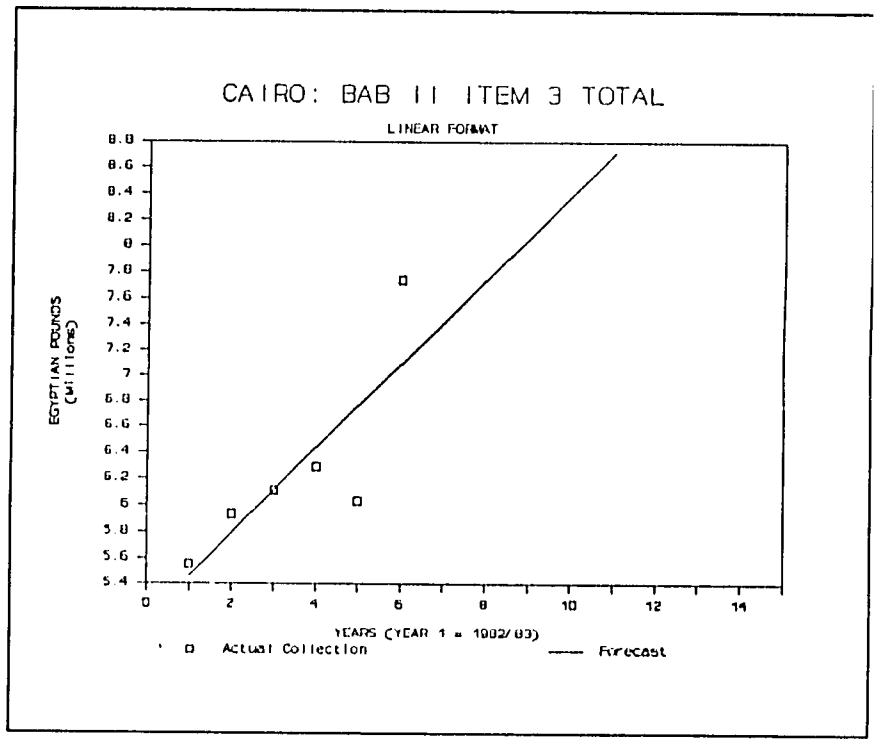
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	1,130,121	
Std Err of Y Est	89,182	
R Squared	0.878	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	(438,088)	54,104
Std Err of Coef.	104,371	14,596

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.316551	0.316551	1.36112779	4	@ 60%
Quadratic	0.877520	0.560969	3.70679023	3	@ 95%

GOVERNORATE: CAIRO B2



Total ITEM 3

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	5,555,313	1	1	5,461,066	5,753,946
83-84	5,930,153	2	4	5,787,295	5,728,639
84-85* EST.	6,110,126	3	9	6,112,924	5,870,101
85-86	6,290,099	4	16	6,438,554	6,204,730
86-87	6,029,822	5	25	6,764,183	6,705,727
87-88	7,738,921	6	36	7,089,812	7,382,051
		7	49	7,415,441	8,233,823
		8	64	7,741,070	9,260,923
		9	81	8,066,699	10,463,331
		10	100	8,392,328	11,841,226
		11	121	8,717,958	13,394,429

AC = CON + YEAR

Regression Output:

Constant	5,136,037
Std Err of Y Est	502,955
R Squared	0.65
No. of Observations	8
Degrees of Freedom	4
X Coefficient(s)	325,639
Std Err of Coef.	120,229

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		5,954,4
Std Err of Y Est		491,5
R Squared		0.
No. of Observations		
Degrees of Freedom		
X Coefficient(s)	(288,158)	87,0-
Std Err of Coef.	575,251	80,4

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.647124	0.647124	2.70840481	4	@ 90%
Quadratic	0.747226	0.100101	1.08936936	3	@ 60%

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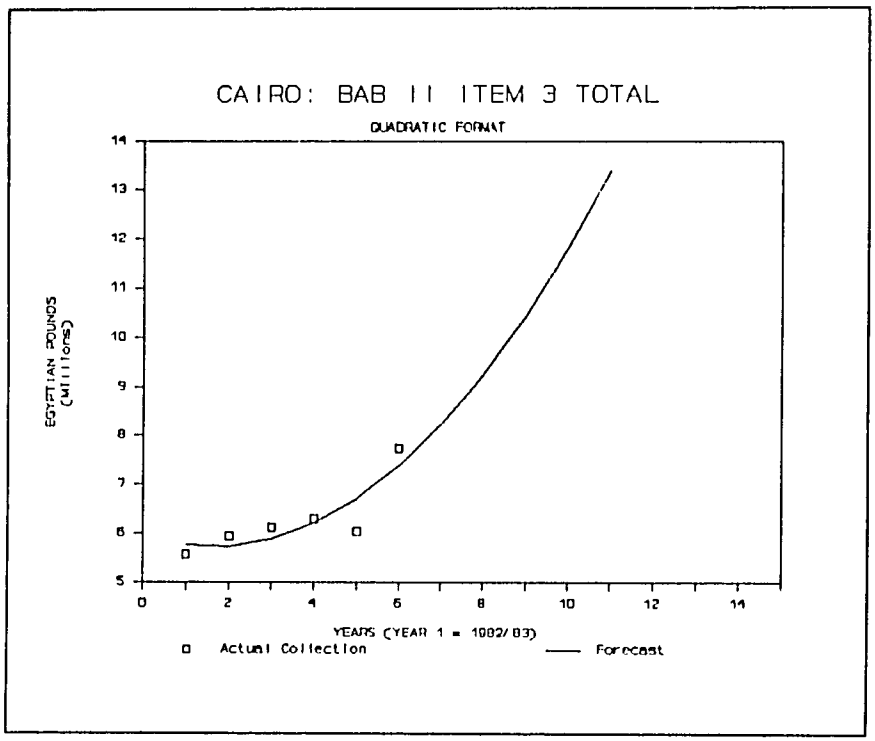


Total ITEM 3

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	5,555,313	1	1	5,461,666	5,753,946
83-84	5,930,153	2	4	5,787,295	5,728,939
84-85* EST.	6,110,126	3	9	6,112,924	5,879,101
85-86	6,290,099	4	16	6,438,554	6,204,730
86-87	6,029,822	5	25	6,764,183	6,705,727
87-88	7,739,921	6	36	7,089,812	7,382,031
		7	49	7,415,441	8,233,523
		8	64	7,741,070	9,260,923
		9	81	8,066,699	10,463,391
		10	100	8,392,328	11,841,226
		11	121	8,717,958	13,394,429

AC = CON + YEAR

Regression Output:

Constant	5,136,037
Std Err of Y Est	502,955
R Squared	0.65
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	325,629
Std Err of Coef.	120,229

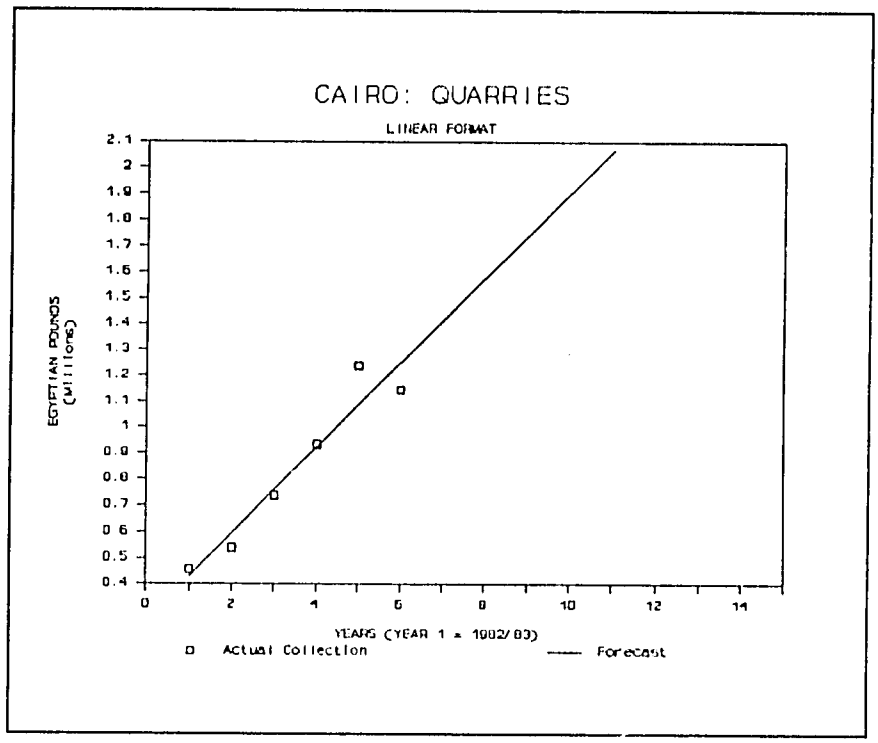
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		5,954,420
Std Err of Y Est		431,034
R Squared		0.75
No. of Observations		6
Degrees of Freedom		3
X Coefficient(s)	(288,158)	87,594
Std Err of Coef.	575,251	80,445

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.647124	0.647124	2.70840481	4	@ 90%
Quadratic	0.747226	0.100101	1.09396936	3	@ 60%



ITEM 5 : Revenues of Quarries

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	456,659	1	1	432,066	406,446
83-84	538,009	2	4	595,834	601,018
84-85* EST.	735,726	3	9	759,722	760,218
85-86	933,442	4	16	923,550	944,040
86-87	1,236,155	5	25	1,087,377	1,092,501
87-88	1,145,823	6	36	1,251,205	1,225,686
		7	49	1,415,033	1,343,296
		8	64	1,578,861	1,445,634
		9	81	1,742,689	1,532,601
		10	100	1,906,517	1,604,195
		11	121	2,070,344	1,660,417

AC = CON + YEAR

Regression Output:

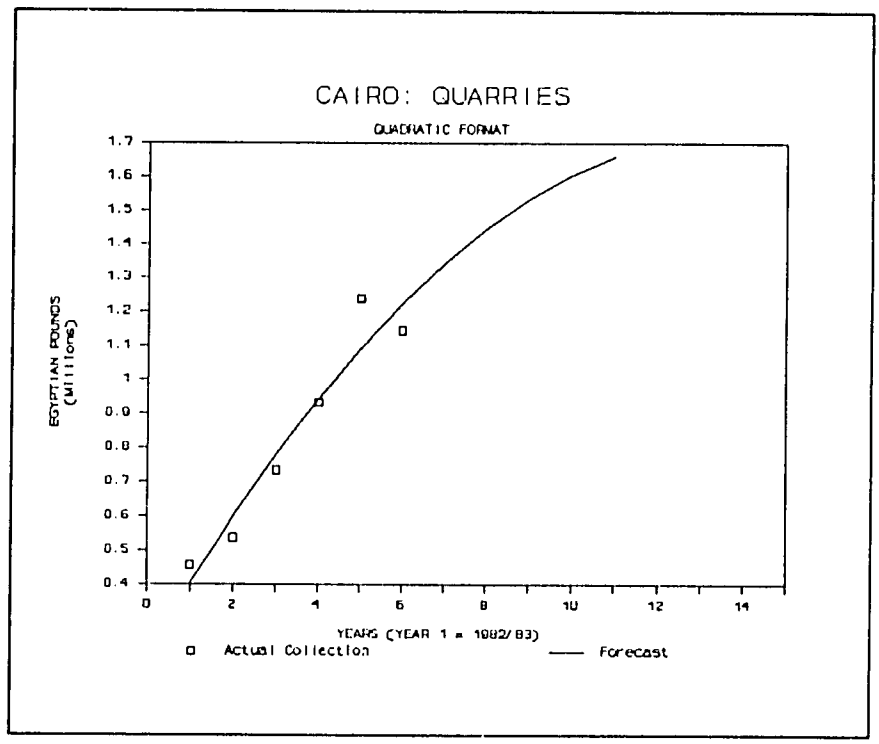
Constant	268,238
Std Err of Y Est	98,197
R Squared	0.92
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	163,828
Std Err of Coef.	23,474

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		[illegible]
Std Err of Y Est		[illegible]
R Squared		[illegible]
No. of Observations		[illegible]
Degrees of Freedom		[illegible]
X Coefficient(s)	217,631	[illegible]
Std Err of Coef.	126,851	[illegible]

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.924112	0.924112	6.97922611	4	@ 99+%
Quadratic	0.926451	0.004339	0.42655391	3	NO



ITEM 5 : Revenues of Quarries

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	458,659	1	1	432,066	406,446
83-84	538,009	2	4	595,894	601,018
84-85* EST.	735,726	3	9	759,722	780,218
85-86	933,442	4	16	923,550	944,046
86-87	1,238,155	5	25	1,087,377	1,092,501
87-88	1,145,823	6	36	1,251,205	1,225,585
		7	49	1,415,033	1,343,296
		8	64	1,578,861	1,445,634
		9	81	1,742,689	1,532,601
		10	100	1,906,517	1,604,195
		11	121	2,070,344	1,660,417

AC = CON + YEAR

Regression Output:

Constant		268,238
Std Err of Y Est		98,197
R Squared		0.92
No. of Observations		6
Degrees of Freedom		4
X Coefficient(s)	163,828	
Std Err of Coef.	23,474	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		196,501
Std Err of Y Est		110,093
R Squared		0.93
No. of Observations		6
Degrees of Freedom		3
X Coefficient(s)	217.631	(7,686)
Std Err of Coef.	126,851	18,019

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.924112	0.924112	6.97922611	4	@ 99+%
Quadratic	0.928451	0.004339	0.42655391	3	NO

ITEM 6 : Miscellaneous Revenue

ITEM 6 Variety 1 : Markets

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	397,079	1	1	399,157	409,913
83-84	458,060	2	4	425,767	423,615
84-85* EST.	436,266	3	9	452,376	443,771
85-86	414,511	4	16	478,985	470,360
86-87	564,030	5	25	505,594	503,443
87-88	524,116	6	36	532,203	542,959
		7	49	558,812	558,929
		8	64	585,421	641,352
		9	81	612,031	700,229
		10	100	638,640	765,559
		11	121	665,249	837,343

AC = CON + YEAR

Regression Output:

Constant	372,548
Std Err of Y Est	47,284
R Squared	0.58
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	26,609
Std Err of Coef.	11,303

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	402,665	
Std Err of Y Est	53,399	
R Squared	0.60	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	4,022	3,227
Std Err of Coef.	62,494	5,739

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.580603	0.580603	2.354157 13	4	@ 90%
Quadratic	0.599023	0.018220	0.36921639	3	NO

ITEM 6 Variety 2 : Building Fines

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	328,962	1	1	314,043	343,882
83-84	298,848	2	4	267,965	260,797
84-85* EST.	201,306	3	9	221,887	193,215
85-86	103,763	4	16	175,809	147,137
86-87	137,435	5	25	129,731	122,563
87-88	122,770	6	36	83,653	119,492
		7	49	37,575	137,925
		8	64	(8,504)	177,851
		9	81	(54,582)	239,301
		10	100	(100,660)	322,244
		11	121	(146,738)	426,691

AC = CON + YEAR

Regression Output:

Constant	360,121
Std Err of Y Est	45,771
R Squared	0.8159672
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	-46078.
Std Err of Coef.	10341.4

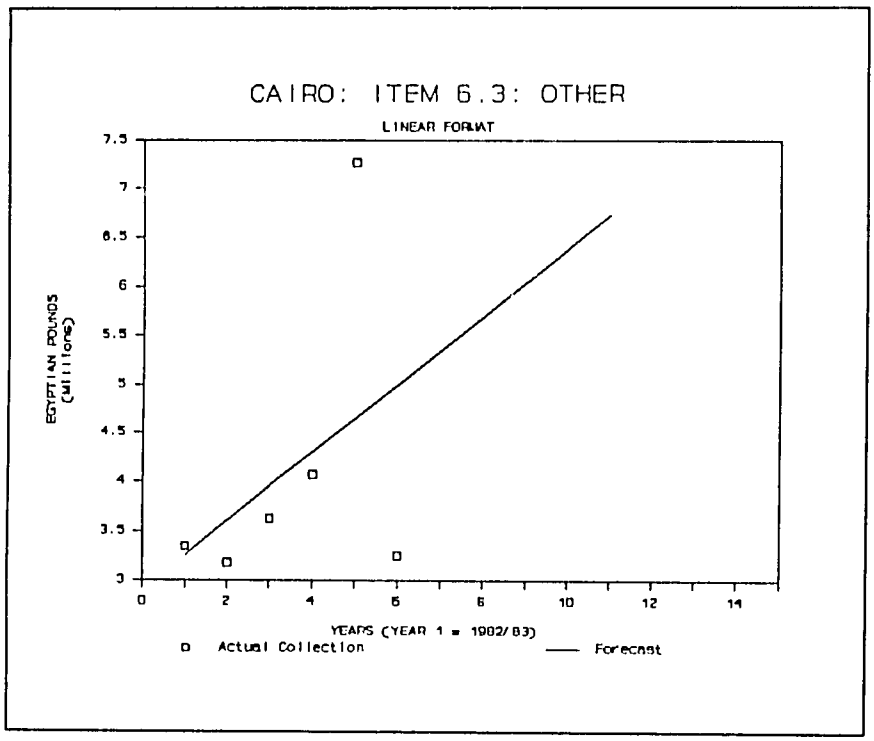
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	450,471	
Std Err of Y Est	36,807	
R Squared	0.9107444	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	-121340.	10751.785
Std Err of Coef.	43076.22	6024.0079

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.815967	0.815967	4.21132505	4	@ 95%
Quadratic	0.910744	0.094777	1.76482262	3	@ 80%



ITEM 6 Variety 3 : Other

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	3,346,929	1	1	3,252,797	2,760,144
83-84	3,164,478	2	4	3,601,617	3,700,148
84-85* EST.	3,627,541	3	9	3,950,436	4,344,559
85-86	4,070,603	4	16	4,299,256	4,693,370
86-87	7,271,967	5	25	4,648,076	4,746,606
87-88	3,247,560	6	36	4,996,895	4,594,242
		7	49	5,345,715	3,966,236
		8	64	5,694,534	3,132,738
		9	81	6,043,354	2,003,597
		10	100	6,392,173	576,865
		11	121	6,740,993	(1,141,459)

AC = CON + YEAR

Regression Output:

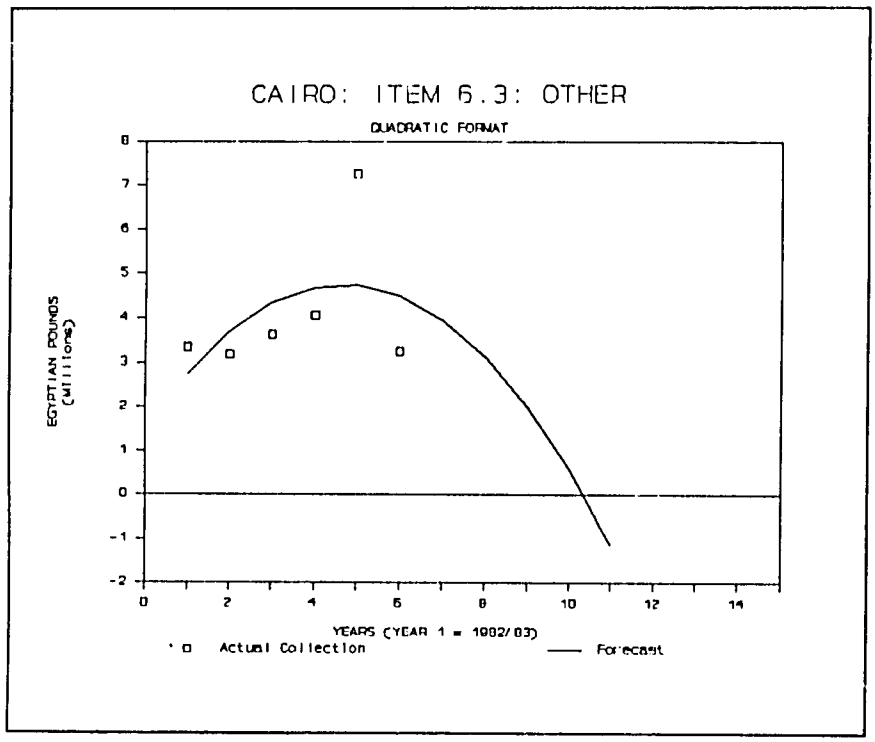
Constant	2903377.9
Std Err of Y Est	1603464.1
R Squared	0.1715293
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	348819.
Std Err of Coef.	383301.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	1524548.8	
Std Err of Y Est	1776537.2	
R Squared	0.2372225	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	1383391.	-147795.9
Std Err of Coef.	2073192.	290763.97

	R squared	Increase	Student's t	df	Signif.
Linear	0.171529	0.171529	0.91004023	4	@ 60%
Quadratic	0.237222	0.065693	0.50830218	3	NO



ITEM 6 Variety 3 : Other

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	3,346,929	1	1	3,252,797	2,760,144
83-84	3,184,478	2	4	3,601,617	3,700,148
84-85* EST.	3,627,541	3	9	3,950,436	4,344,559
85-86	4,070,603	4	16	4,293,256	4,693,379
86-87	7,271,967	5	25	4,648,076	4,746,606
87-88	3,247,560	6	36	4,996,895	4,504,242
		7	49	5,345,715	3,966,286
		8	64	5,694,534	3,132,738
		9	81	6,043,354	2,003,597
		10	100	6,392,173	578,865
		11	121	6,740,993	(1,141,459)

AC = CON + YEAR

Regression Output:

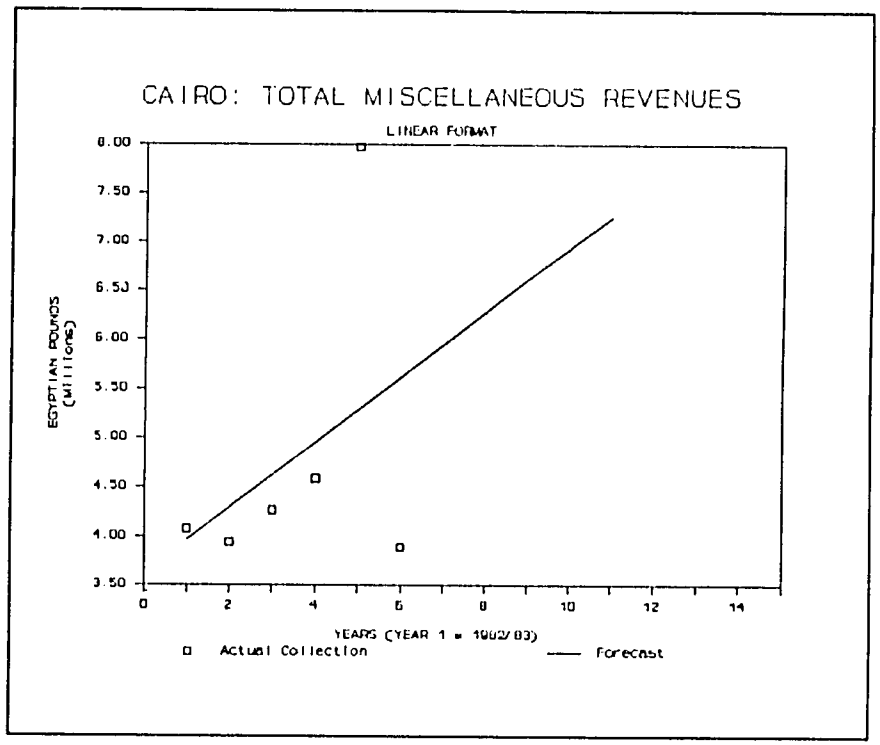
Constant	2903977.8
Std Err of Y Est	1603464.1
R Squared	0.1715293
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	348819.
Std Err of Coef.	383301.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	1524548.8	
Std Err of Y Est	1776597.2	
R Squared	0.2372225	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	1383391.	-147795.9
Std Err of Coef.	2079182.	290763.97

	R squared	Increase	Student's t	df	Signif.
Linear	0.171529	0.171529	0.91004023	4	@ 60%
Quadratic	0.237222	0.065693	0.50830218	3	NO



TOTAL ITEM 6: Miscellaneous Revenues

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	4,072,970	1	1	3,965,998	3,519,540
83-84	3,941,386	2	4	4,285,348	4,384,560
84-85* EST.	4,265,132	3	9	4,624,699	4,961,545
85-86	4,588,677	4	16	4,964,050	5,319,896
86-87	7,973,435	5	25	5,283,400	5,372,612
87-88	3,894,446	6	36	5,612,751	5,166,693
		7	49	5,942,102	4,695,139
		8	64	6,271,452	3,951,950
		9	81	6,600,803	2,943,127
		10	100	6,930,153	1,666,663
		11	121	7,259,504	122,575

AC = CON + YEAR

Regression Output:

Constant	3635647
Std Err of Y Est	1626378.0
R Squared	0.1520249
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	329350.
Std Err of Coef.	368322.

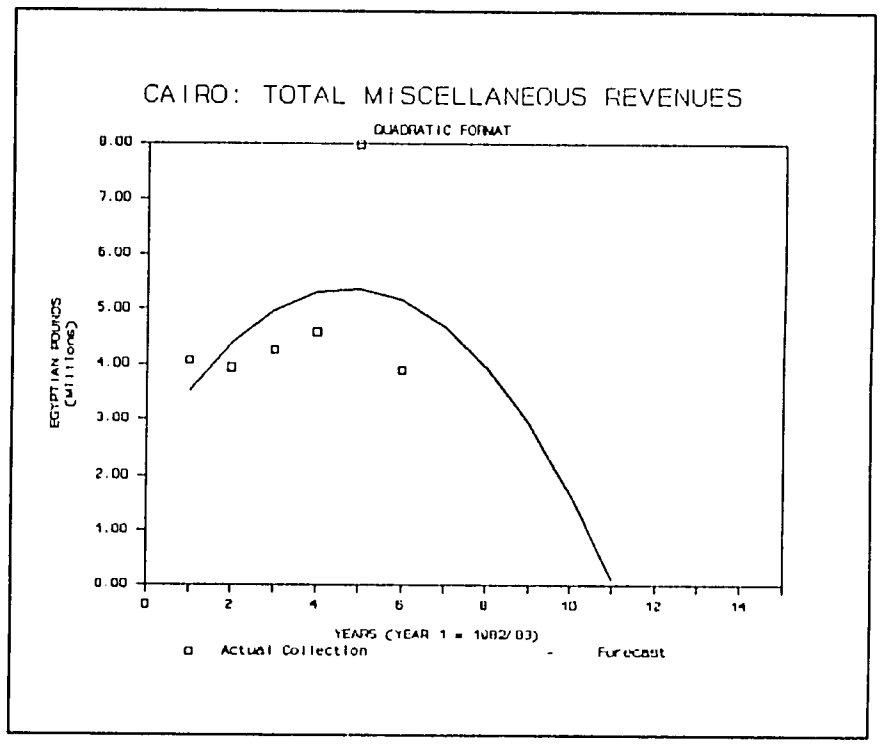
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	23c7664.[illegible]
Std Err of Y Est	1c1c39[illegible].0
R Squared	0.205565[illegible]
No. of Observations	[illegible]
Degrees of Freedom	[illegible]
X Coefficient(s)	1266072. -1[illegible]17 4
Std Err of Coef.	2128101. 297[illegible]

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.152024	0.152024	0.84682921	4	NO
Quadratic	0.205565	0.053540	0.44964770	3	NO



TOTAL ITEM 6: Miscellaneous Revenues

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	4,072,970	1	1	3,965,998	3,519,940
83-84	3,941,386	2	4	4,295,348	4,384,560
84-85* EST.	4,265,132	3	9	4,624,699	4,981,545
85-86	4,588,877	4	16	4,954,050	5,310,896
86-87	7,973,435	5	25	5,283,400	5,372,612
87-88	3,894,446	6	36	5,612,751	5,166,693
		7	49	5,942,102	4,693,139
		8	64	6,271,452	3,951,950
		9	81	6,600,803	2,943,127
		10	100	6,930,153	1,666,669
		11	121	7,259,504	122,575

AC = CON + YEAR

Regression Output:

Constant	3636647
Std Err of Y Est	1626978.0
R Squared	0.1520249
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	329350.
Std Err of Coef.	388922.

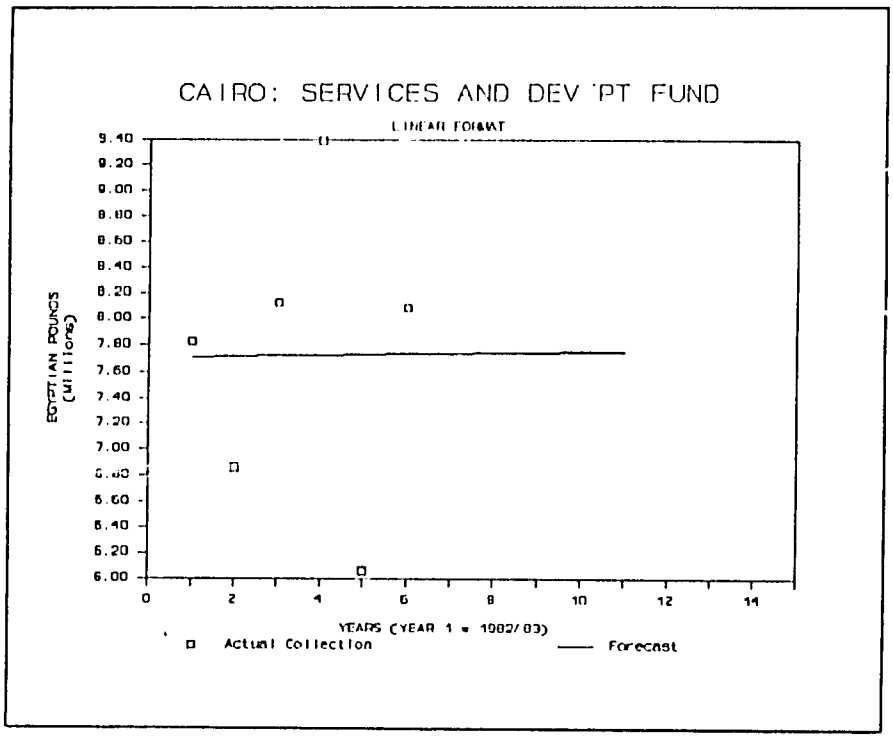
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	2397684.5	
Std Err of Y Est	1818396.6	
R Squared	0.2055653	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	1266072.	-133817.4
Std Err of Coef.	2128101.	297605.01

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.152024	0.152024	0.84682921	4	NO
Quadratic	0.205565	0.053540	0.44964770	3	NO



ITEM 7: Variety 1: Services and Dev'pt Fund

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	7,828,760	1	1	7,715,241	7,512,166
83-84* EST.	6,862,916	2	4	7,719,674	7,760,289
84-85* EST.	8,126,382	3	9	7,724,107	7,896,567
85-86	9,389,848	4	16	7,728,539	7,891,000
86-87	6,062,955	5	25	7,732,972	7,773,587
87-88	8,087,066	6	36	7,737,404	7,534,329
		7	49	7,741,837	7,173,225
		8	64	7,746,270	6,690,276
		9	81	7,750,702	6,085,482
		10	100	7,755,135	5,358,842
		11	121	7,759,568	4,510,357

AC = CON + YEAR

Regression Output:

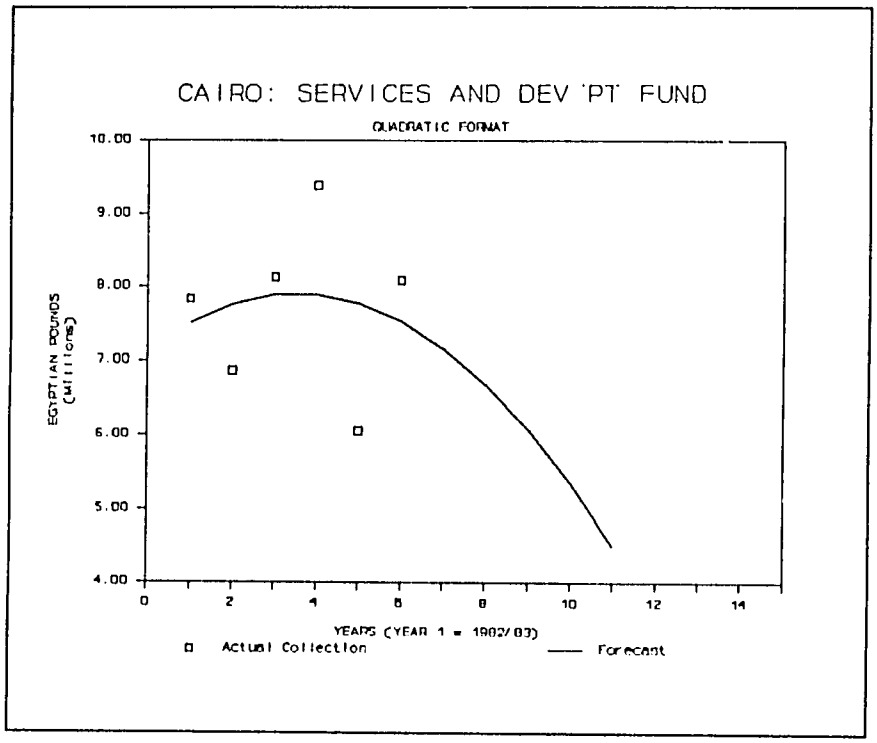
Constant	7710808.5
Std Err of Y Est	1282563.7
R Squared	0.0000522
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	4432.65
Std Err of Coef.	306591.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	7142196.7	
Std Err of Y Est	1465300.1	
R Squared	0.0211101	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	430891.5	-60922.69
Std Err of Coef.	1714866.	239816.03

	R squared	Increase	Student's t	df	Signif.
Linear	0.000052	0.000052	0.01445786	4	NO
Quadratic	0.021110	0.021057	0.25403929	3	NO



ITEM 7: Variety 1: Services and Dev'pt Fund

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	7,928,750	1	1	7,715,241	7,512,166
83-84 EST.	6,852,016	2	4	7,719,674	7,760,299
84-85 EST.	9,126,082	3	9	7,724,107	7,856,567
85-86	9,289,949	4	16	7,728,539	7,891,000
86-87	6,852,055	5	25	7,732,972	7,773,567
87-88	8,097,006	6	36	7,737,404	7,534,299
		7	49	7,741,837	7,173,225
		8	64	7,746,270	6,690,276
		9	81	7,750,702	6,085,422
		10	100	7,755,135	5,358,842
		11	121	7,759,569	4,510,257

AC = CON + YEAR

Regression Output:

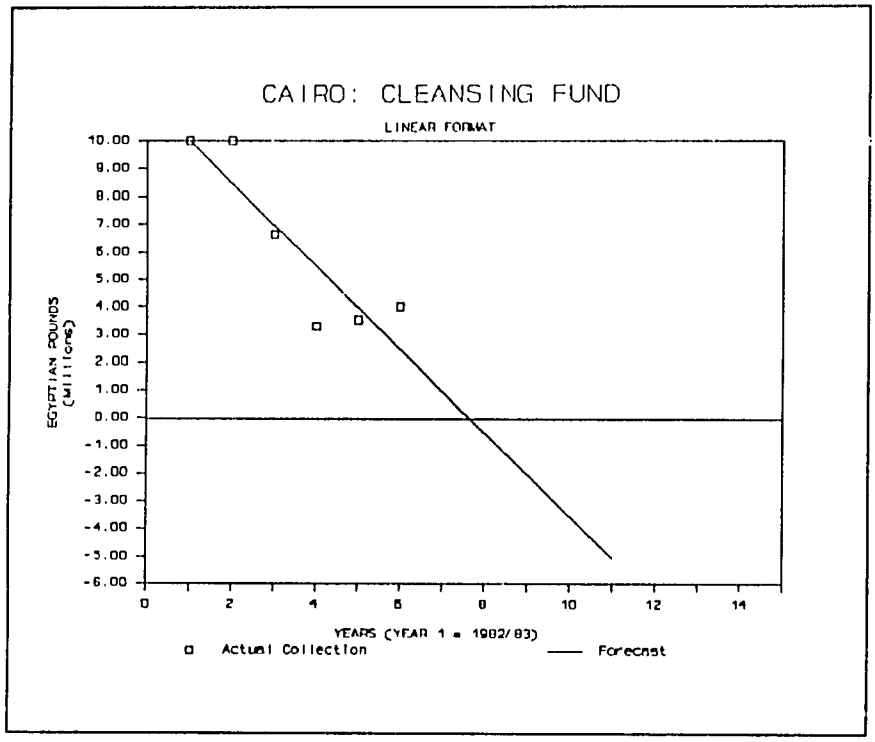
Constant	7719608.5
Std Err of Y Est	1202563.7
R Squared	0.0000522
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	1432.65
Std Err of Coef.	306591.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	7142196.7	
Std Err of Y Est	1465300.1	
R Squared	0.0211101	
No. of Observations	6	
Degrees of Freedom	3	
X Coefficient(s)	430891.5	-60322.69
Std Err of Coef.	1714866	239915.03

	R squared	Increase	Student's t	df	Signif.
Linear	0.000052	0.000052	0.01445796	4	NO
Quadratic	0.021110	0.021057	0.25403929	3	NO



ITEM 7: Var 2: Cleansing NB: this fund is often combined w/ Var. 1. Serv. & Dev.

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	9,991,129	1	1	9,993,197	10,989,045
83-84EST.	9,991,129	2	4	8,491,891	8,232,631
84-85EST.	5,640,565	3	9	6,990,485	6,192,726
85-86EST.	3,300,000	4	16	5,489,079	4,632,320
86-87	3,518,194	5	25	3,997,614	3,799,444
87-88	4,017,239	6	36	2,496,218	3,492,967
		7	49	994,822	3,773,199
		8	64	(516,574)	4,661,841
		9	81	(2,017,970)	6,147,992
		10	100	(3,519,366)	8,231,653
		11	121	(5,020,761)	10,912,923

AC = CON + YEAR

Regression Output:

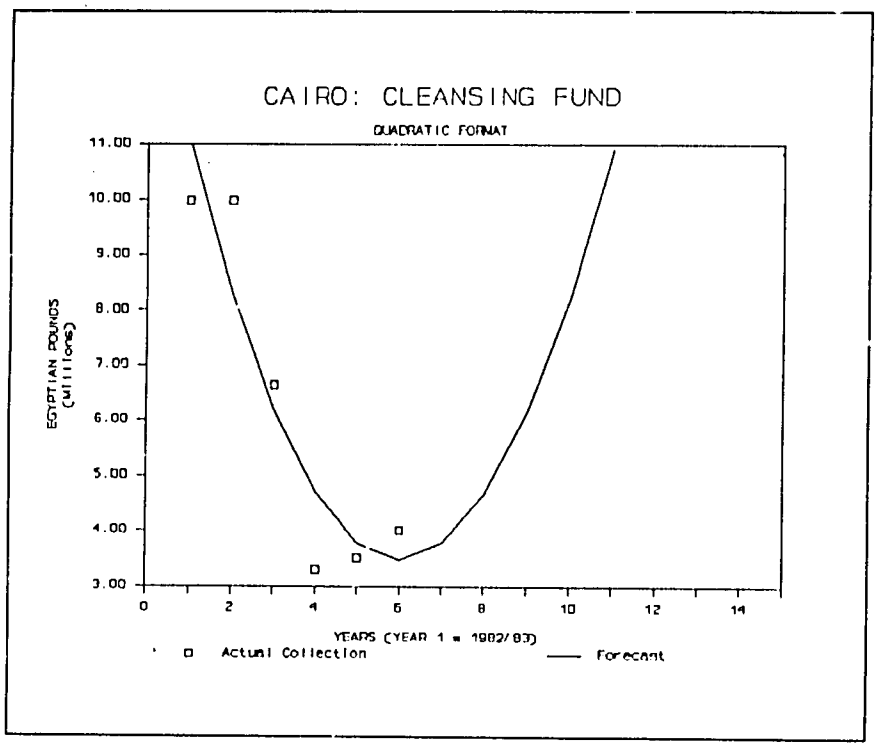
Con. est	11434592.
Std Err of Y Est	1556932.7
R Squared	0.8026907
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	-25496
Std Err of Coef.	372190.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	14252970.
Std Err of Y Est	1456550.4
R Squared	0.8704933
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-2502678 299754.71
Std Err of Coef.	1704626. 238384.92

	R squared	Increase	Student's t	df	Signif.
Linear	0.802630	0.802630	4.03394925	4	@ 95%
Quadratic	0.870493	0.067862	1.25324972	3	@ 60%



ITEM 7: Var 2: Cleansing NR: this fund is often combined w/ Var. 1. Serv. & Dev.

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	9,981,129	1	1	9,993,197	10,989,046
83-84*EST.	9,981,129	2	4	8,491,691	8,292,631
84-85*EST.	6,640,565	3	9	6,990,405	6,193,726
85-86*EST.	3,300,000	4	16	5,489,009	4,692,330
86-87	3,518,184	5	25	3,987,614	3,788,444
87-88	4,017,238	6	36	2,486,218	3,482,067
		7	49	984,822	3,773,193
		8	64	(516,574)	4,661,841
		9	81	(2,017,970)	6,147,932
		10	100	(3,519,366)	8,231,653
		11	121	(5,020,761)	10,912,823

AC = CON + YEAR

Regression Output:

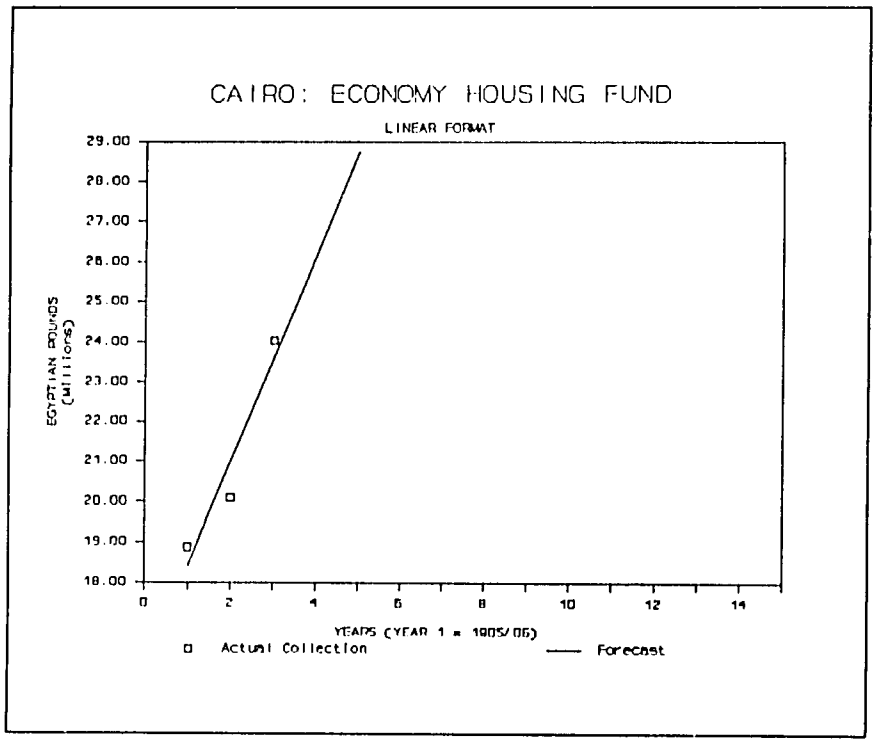
Constant	11494592.
Std Err of Y Est	1556982.7
R Squared	0.8026907
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	25406
Std Err of Coef.	372190.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	14282970.
Std Err of Y Est	1456550.4
R Squared	0.8704933
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-3592678 298754.71
Std Err of Coef.	1704626. 238384.02

	R squared	Increase	Student's t	df	Signif.
Linear	0.802690	0.802690	4.03394925	4	@ 98%
Quadratic	0.870493	0.067802	1.25324372	3	@ 60%



ITEM 7 Variety 3 : Economy Housing

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	no data				
83-84	no data				
84-85	no data				
85-86	18,869,926	1	1	18,420,627	
86-87	20,102,235	2	4	21,090,833	
87-88	24,030,338	3	9	23,561,039	
		4	16	26,161,245	
		5	25	28,741,451	
		6	36	31,321,657	
		7	49	33,991,863	
		8	64	36,482,069	

AC = CON + YEAR

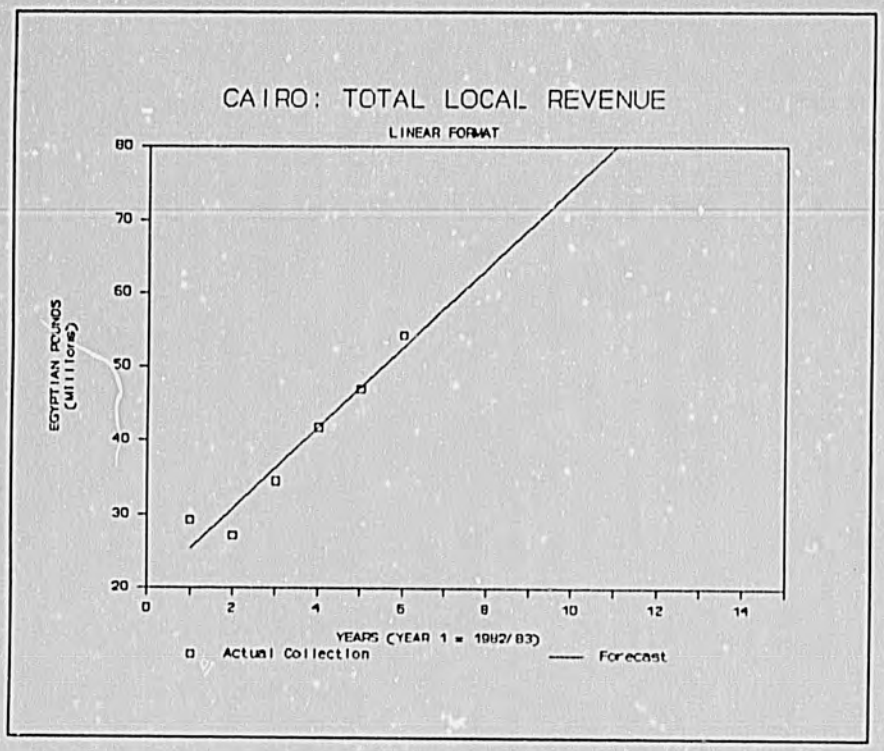
Regression Output:

Constant	16340421
Std Err of Y Est	1100553.2
R Squared	0.916618
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	2580206
Std Err of Coef.	778209.

AC = CON + YEAR + YEAR^2

TOO FEW DATA POINTS FOR QUADRATIC

	R squared	Increase	Student's t	df	Signif.
Linear	0.916618	0.916618	3.31557076	1	@ 80%
Quadratic	N/A	N/A	N/A	N/A	N/A



Total Local Revenue

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	29,336,573	1	1	25,380,576	27,666,908
83-84	27,253,593	2	4	30,832,294	30,375,028
84-85* EST.	34,511,412	3	9	36,284,013	34,454,947
85-86	41,769,231	4	16	41,735,731	39,906,665
86-87	46,973,072	5	25	47,187,450	46,730,183
87-88	54,215,351	6	36	52,639,168	54,925,500
		7	49	58,090,887	64,492,617
		8	64	63,542,605	75,431,533
		9	81	68,994,324	87,742,249
		10	100	74,446,042	101,424,763
		11	121	79,897,760	116,479,078

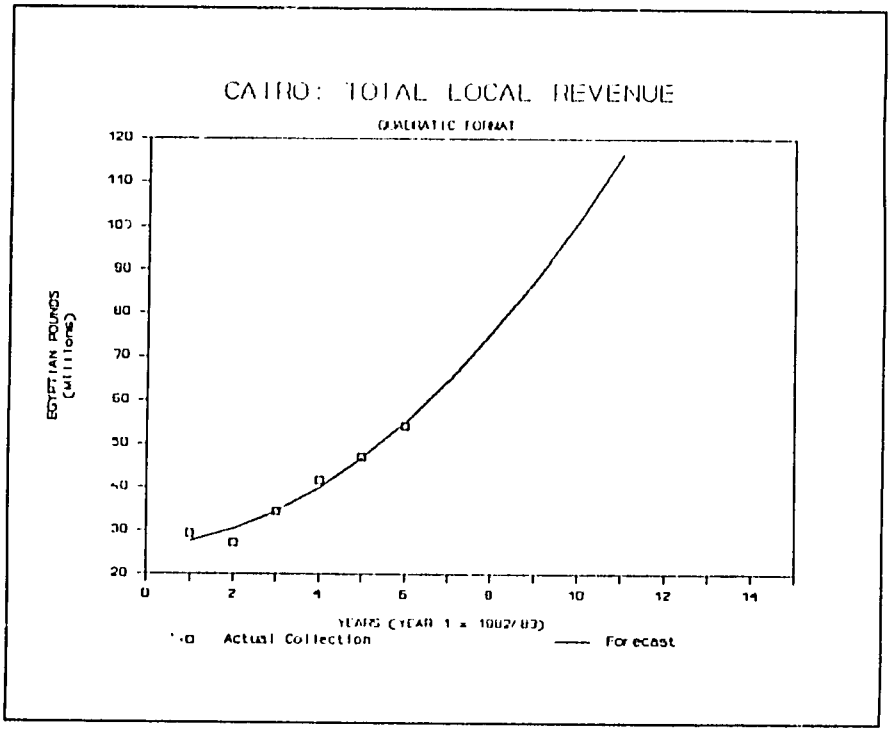
AC = CON + YEAR
Regression Output:

Constant	19928857.
Std Err of Y Est	2921068.4
R Squared	0.9384205
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	5451718.
Std Err of Coef.	698268.9

AC = CON + YEAR + YEAR^2
Regression Output:

Constant		26330587.9
Std Err of Y Est		2349949.104
R Squared		0.970109565
No. of Observations		6
Degrees of Freedom		3
X Coefficient(s)	650420.5821	665899.6964
Std Err of Coef.	2750186.367	384600.7018

	R squared	Increase	Student's t	df	Signif.
Linear	0.938420	0.938420	7.8074770648	4	@ 99%
Quadratic	0.970109	0.031689	1.7834072926	3	@ 80%



Total Local Revenue

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	29,336,573	1	1	25,380,576	27,066,978
83-84	27,253,593	2	4	30,832,294	30,375,008
84-85* EST.	34,511,412	3	9	36,284,013	34,454,947
85-86	41,769,231	4	16	41,735,731	39,906,665
86-87	46,973,072	5	25	47,187,450	46,730,163
87-88	54,215,351	6	36	52,639,168	54,925,500
		7	49	58,090,887	64,492,617
		8	64	63,542,605	75,431,593
		9	81	68,994,324	87,742,243
		10	100	74,446,042	101,424,763
		11	121	79,897,760	116,473,078

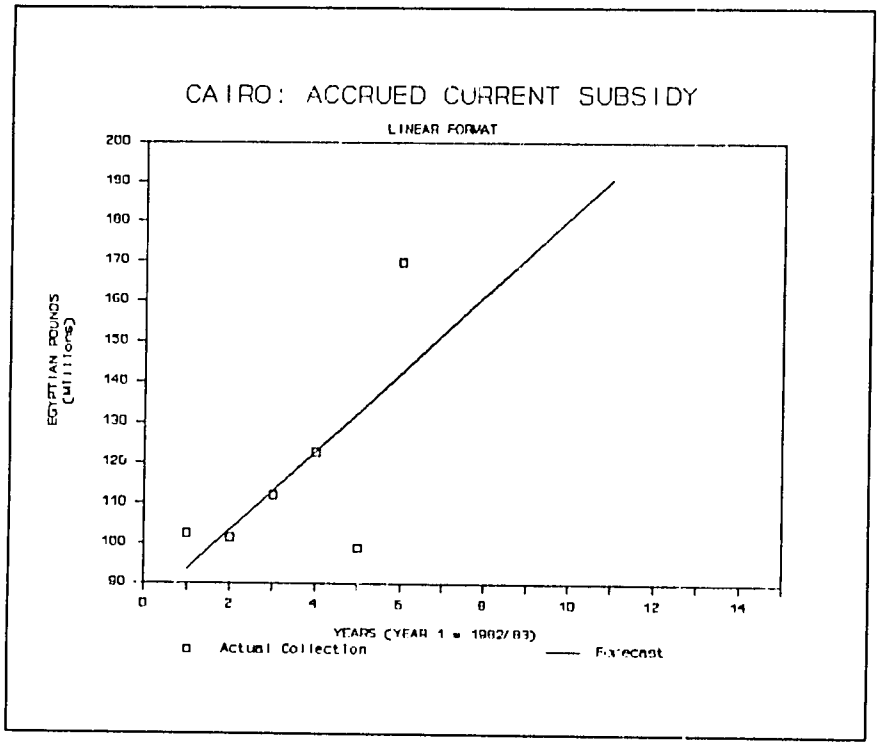
AC = CON + YEAR
Regression Output:

Constant	19928857.
Std Err of Y Est	2921068.4
R Squared	0.9384205
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	5451718.
Std Err of Coef.	698268.9

AC = CON + YEAR + YEAR^2
Regression Output:

Constant		263[illegible]
Std Err of Y Est		2349949
R Squared		0.97010
No. of Observations		
Degrees of Freedom		
X Coefficient(s)	650420.5821	685893 [illegible]
Std Err of Coef.	2750186.367	384609 [illegible]

	R squared	Increase	Student's t	df	Signif.
Linear	0.938420	0.938420	7.807477/0618	4	# 95%
Quadratic	0.970103	0.031683	1.7834072926	3	# 80%



ACCRUED CURRENT CENTRAL SUBSIDY

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	102,360,465	1	1	93,577,831	106,754,392
83-84	101,454,374	2	4	103,222,202	100,655,590
84-85* EST.	112,050,181	3	9	113,007,973	102,458,724
85-86	122,645,988	4	16	122,793,043	112,173,795
86-87	98,896,543	5	25	132,438,114	129,800,802
87-88	159,775,497	6	36	142,153,185	155,339,745
		7	49	151,868,255	188,790,625
		8	64	161,583,326	230,152,441
		9	81	171,298,397	279,428,193
		10	100	181,013,467	336,614,882
		11	121	190,728,538	401,713,507

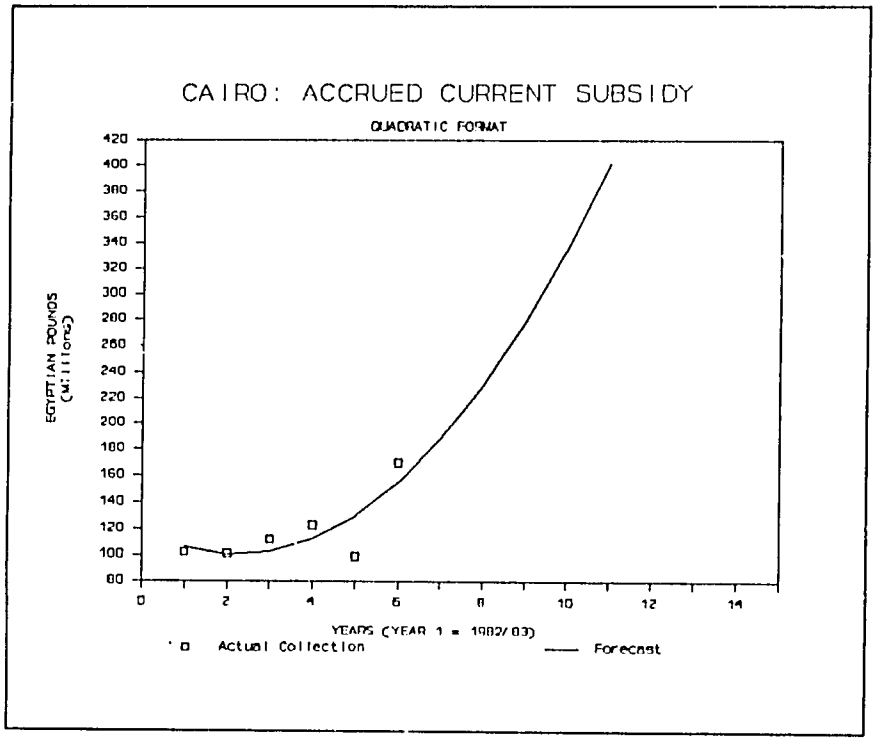
AC : CON + YEAR
Regression Output:

Constant	83862760.
Std Err of Y Est	22185561.
R Squared	0.4562074
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	9715070.
Std Err of Coef.	5303363.

AC : CON + YEAR + YEAR^2
Regression Output:

Constant	120795130.1
Std Err of Y Est	21482974.27
R Squared	0.6175811303
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-17376706.4 3355968.160
Std Err of Coef.	25141781.93 3515960.625

	R squared	Increase	Student's t	df	Signif.
Linear	0.456207	0.456207	1.8318696472	4	@ 80%
Quadratic	0.617581	0.161374	1.1251457516	3	@ 60%



RUED CURRENT CENTRAL SUBSIDY

cal r	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
83	102,360,465	1	1	93,577,831	106,764,392
84	101,454,374	2	4	103,292,902	100,655,599
85* EST.	112,050,181	3	9	113,007,973	102,458,724
86	122,645,988	4	16	122,723,043	112,173,795
87	98,906,543	5	25	132,438,114	129,800,802
88	169,775,497	6	36	142,153,185	155,339,745
		7	49	151,868,255	188,799,625
		8	64	161,583,326	239,153,441
		9	81	171,298,397	275,428,193
		10	100	181,013,467	316,614,882
		11	121	190,728,538	401,713,507

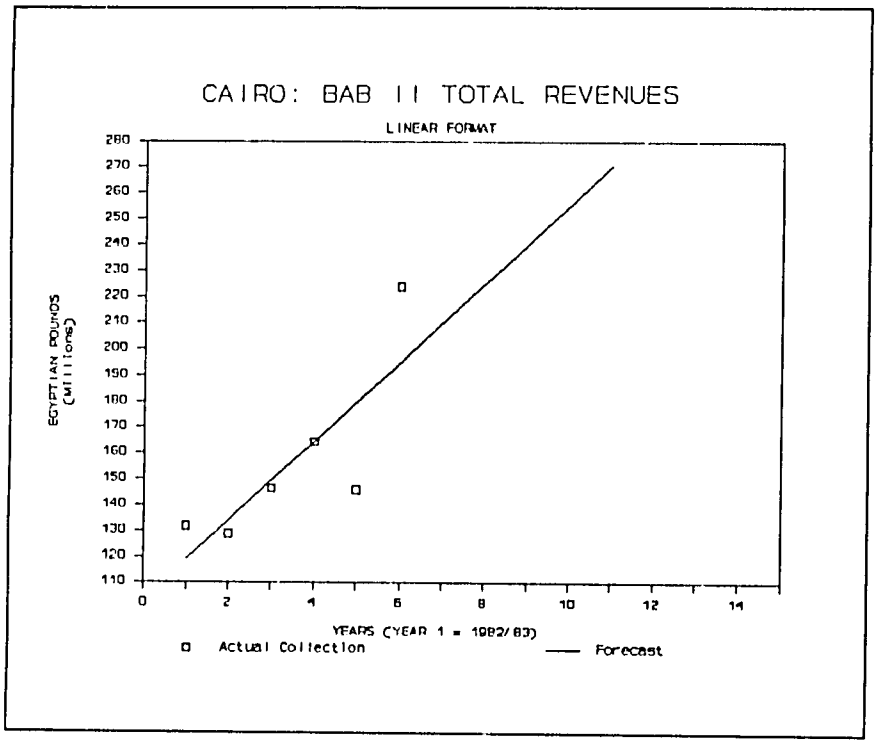
AC : CON + YEAR
Regression Output:

Constant	83862760.
Std Err of Y Est	22185561.
R Squared	0.4562074
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	9715070.
Std Err of Coef.	5303363.

AC : CON + YEAR + YEAR^2
Regression Output:

Constant		120785130.
Std Err of Y Est		21482874.2
R Squared		0.61758190
No. of Observations		
Degrees of Freedom		
X Coefficient(s)	-17976706.4	3955968.16
Std Err of Coef.	25141781.93	3515960.62

	R squared	Increase	Student's t	df	Signif.
Linear	0.456207	0.456207	1.8318696472	4	0.80%
Quadratic	0.617581	0.161374	1.1251457516	3	0.60%



TOTAL BAB II

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	131,697,039	1	1	118,958,407	134,431,330
83-84	128,707,967	2	4	134,125,196	131,039,618
84-85* EST.	146,561,593	3	9	149,291,985	136,313,671
85-86	164,415,219	4	16	164,458,775	152,080,460
86-87	145,873,615	5	25	179,625,564	176,530,985
87-88	223,990,848	6	36	194,792,353	210,265,246
		7	49	209,959,142	253,283,242
		8	64	225,125,931	305,584,074
		9	81	240,292,720	367,170,442
		10	100	255,459,509	438,039,645
		11	121	270,626,299	518,192,594

AC = CON + YEAR

Regression Output:

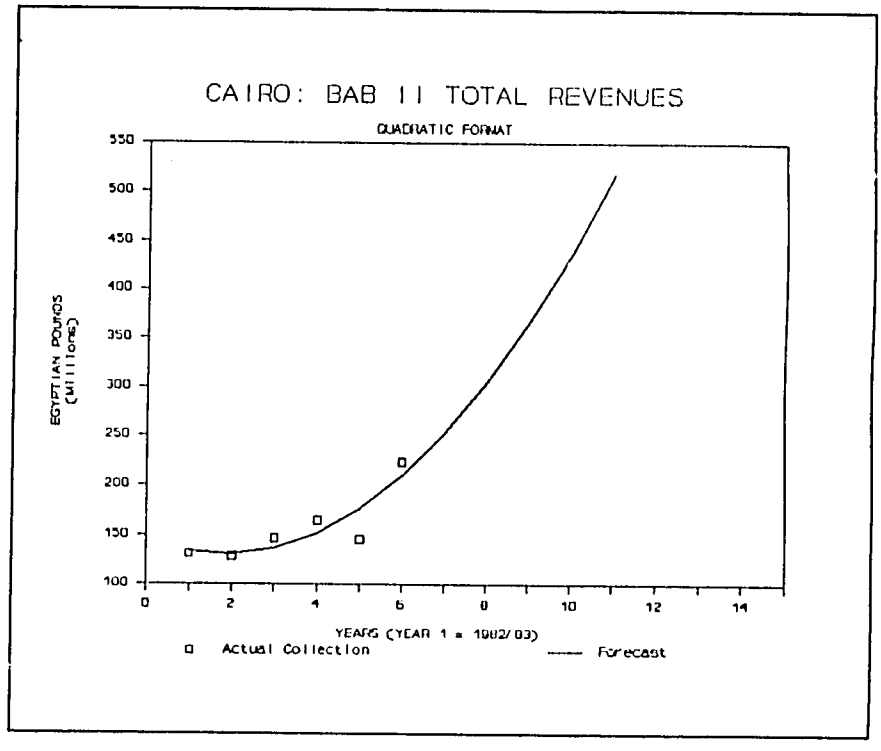
Constant	103791918
Std Err of Y Est	23400346.
R Squared	0.6476144
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	15166793
Std Err of Coef.	5593855.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	147115719
Std Err of Y Est	21494171.40
R Squared	0.777026178
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-17326295.9 4641867.357
Std Err of Coef.	25155003.19 3517509.552

	R squared	Increase	Student's t	df	Signif.
Linear	0.647614	0.647614	2.7113104519	4	0.99%
Quadratic	0.777026	0.129411	1.3195335869	3	0.60%



TOTAL BAB II

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	131,697,038	1	1	118,959,457	134,431,300
83-84	128,707,967	2	4	134,125,196	131,030,618
84-85* EST.	146,561,593	3	9	149,291,985	136,913,671
85-86	164,415,219	4	16	164,458,775	152,080,460
86-87	145,879,615	5	25	179,625,564	176,530,985
87-88	223,990,848	6	36	194,792,353	210,265,246
		7	49	209,959,142	253,283,242
		8	64	225,125,931	305,584,974
		9	81	240,292,720	367,170,442
		10	100	255,459,509	438,039,645
		11	121	270,626,299	518,192,584

AC = CON + YEAR

Regression Output:

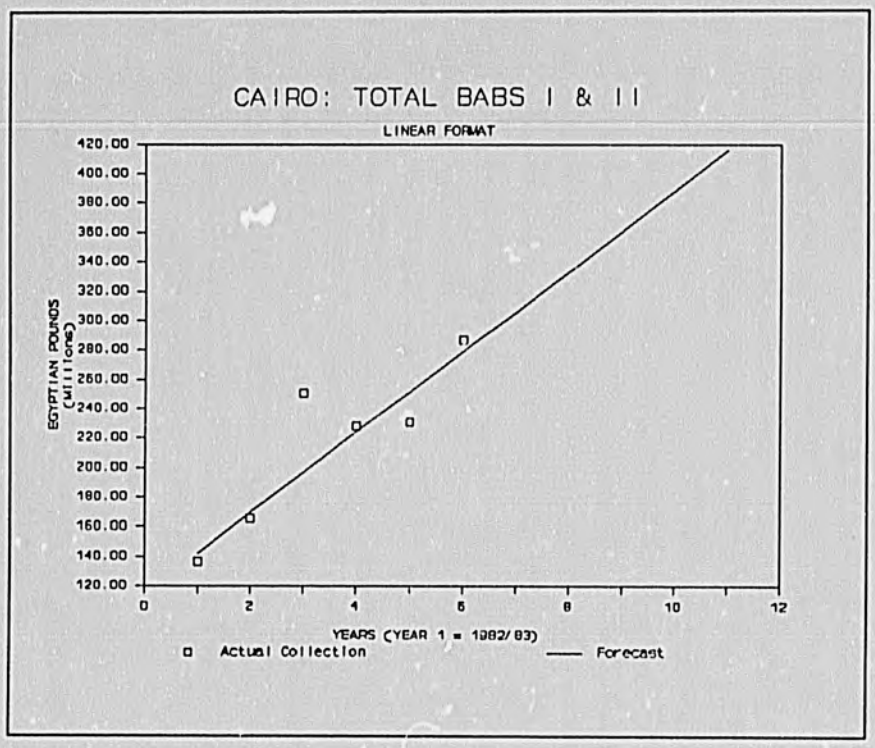
Constant	103791618
Std Err of Y Est	23400946.
R Squared	0.6476144
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	15166789
Std Err of Coef.	5593896.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	14711
Std Err of Y Est	2149417
R Squared	0.77702
No. of Observations	
Degrees of Freedom	
X Coefficient(s)	-17326285.8 4641867
Std Err of Coef.	25155003.16 3517809

	R squared	Increase	Student's t	df	Signif.
Linear	0.647614	0.647614	2.7113104519	4	@ 90%
Quadratic	0.77702C	0.129411	1.3195335869	3	@ 60%



TOTAL BAB I AND II
TOTAL CURRENT REVENUES

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	136,783,477	1	1	142,142,816	133,046,807
83-84	165,714,280	2	4	169,491,565	170,110,766
84-85* EST.	250,725,751	3	9	196,840,313	199,317,120
85-86	227,960,966	4	16	224,189,062	226,665,869
86-87	230,752,291	5	25	251,537,811	252,157,012
87-88	266,654,284	6	36	278,886,560	275,790,551
88-89		7	49	306,235,308	297,566,485
89-90		8	64	333,584,057	317,484,813
90-91		9	81	360,932,806	335,545,536
91-92		10	100	388,281,554	351,748,655
92-93		11	121	415,630,303	366,094,168

AC = CON + YEAR

Regression Output:

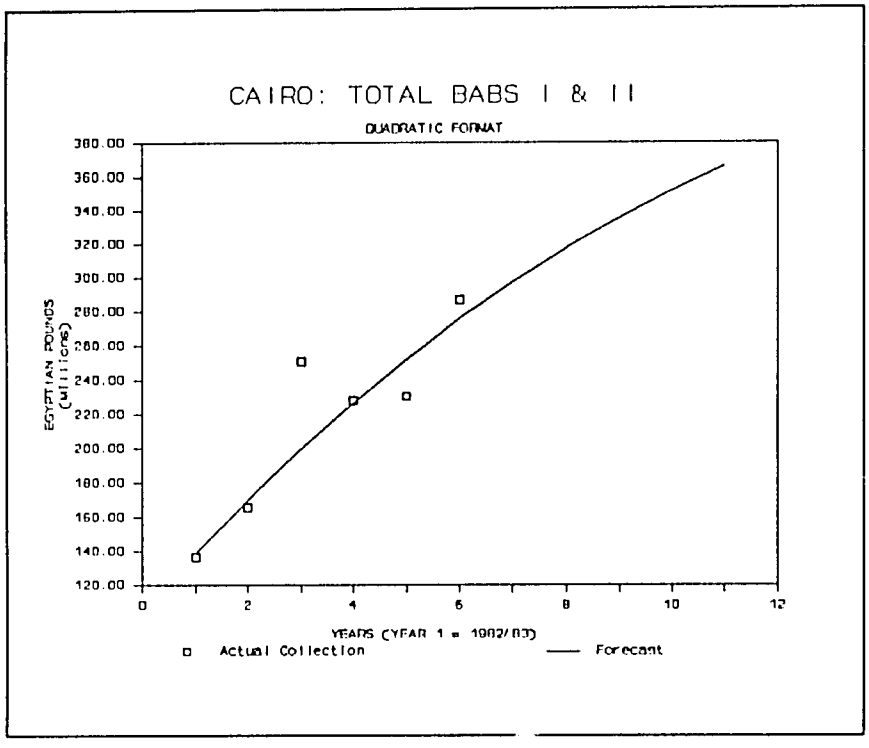
Constant	114794067
Std Err of Y Est	14035551.
R Squared	0.9365007
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	27348748
Std Err of Coef.	3560717.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	106125243.4
Std Err of Y Est	16884937.78
R Squared	0.938805081
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	33850366.43 -928802.535
Std Err of Coef.	19760736.77 2763446.625

	R squared	Increase	Student's t	df	Signif.
Linear	0.936500	0.936500	7.6806837707	4	@ 99+%
Quadratic	0.938805	0.002304	0.3361029402	3	NO



OTAL BAB I AND II
OTAL CURRENT REVENUES

iscal ear	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	136,763,477	1	1	142,142,816	132,045,207
83-84	165,714,280	2	4	163,491,565	173,120,785
84-85* EST.	250,725,751	3	9	196,840,313	199,217,120
85-86	227,360,955	4	16	224,189,062	225,555,555
86-87	230,782,231	5	25	251,537,811	252,157,012
87-88	225,654,224	6	36	273,836,560	275,730,551
88-89		7	49	306,235,308	297,555,455
89-90		8	64	333,554,057	317,454,313
90-91		9	81	353,932,806	335,545,575
91-92		10	100	375,291,554	351,749,655
92-93		11	121	415,650,303	366,174,155

AC = CON + YEAR

Regression Output:

Constant	114794067
Std Err of Y Est	14995551.
R Squared	0.9395007
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	27346742
Std Err of Coef.	3569717.

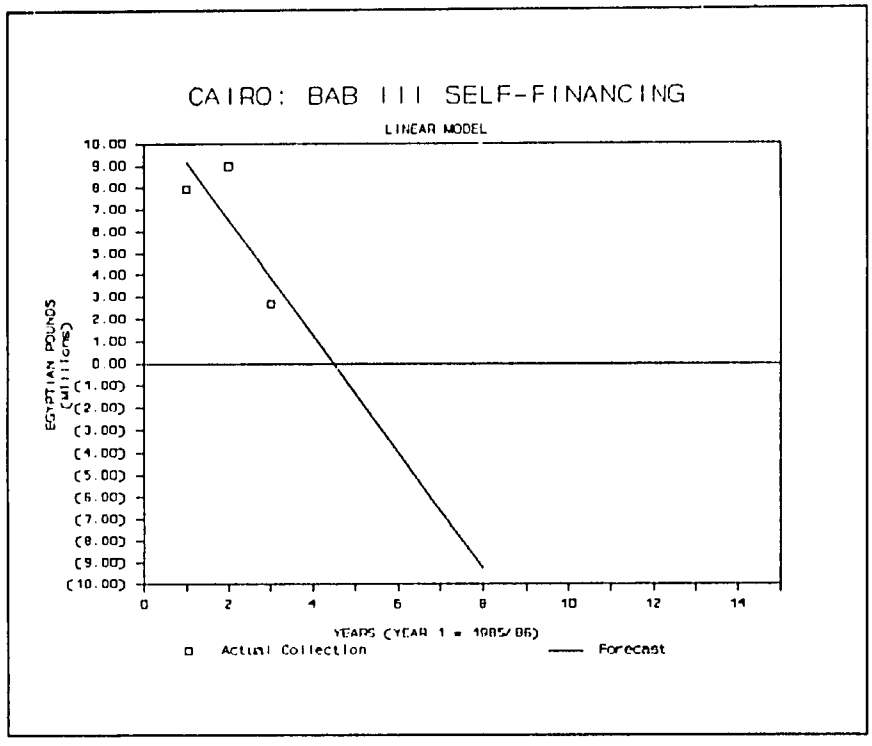
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	1061285243.4
Std Err of Y Est	16994937.79
R Squared	0.938805031
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	33850355.49 -928592.535
Std Err of Coef.	10760735.77 2763446.525

	R squared	Increase	Student's t	df	Signif.
Linear	0.936500	0.936500	7.6806837707	4	@ 93%
Quadratic	0.938805	0.002304	0.3361029402	3	53

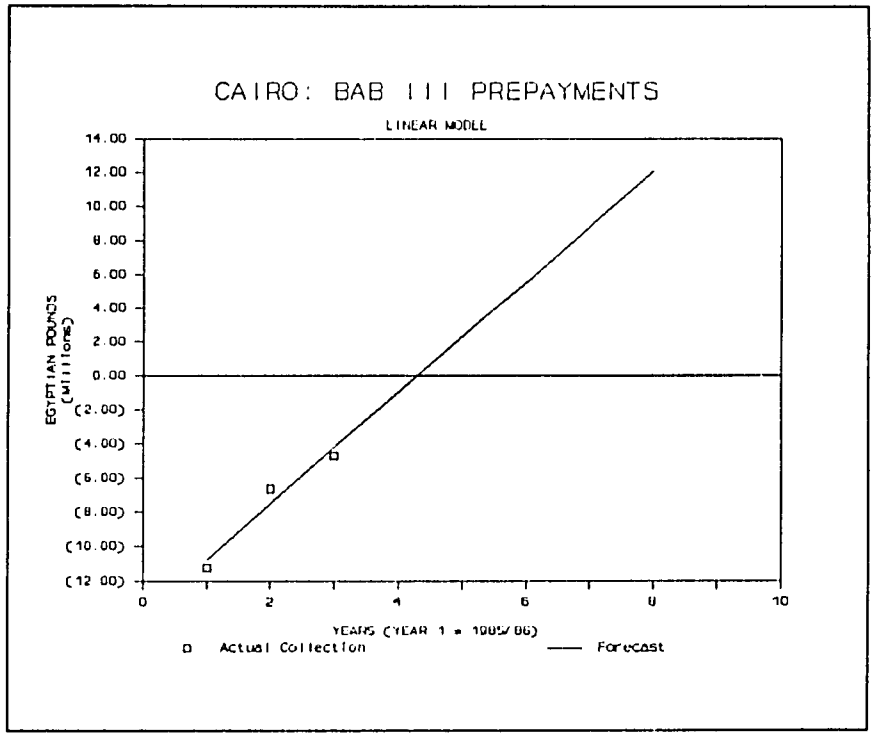
47



Fiscal Year Self-Financing	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic	AC = CON + YEAR		AC = CON + YEAR + YEAR^2
						Regression Output:		
85-86	7,845,152	1	1	9,164,977	N/A	Constant	11797155.	
86-87	8,970,047	2	4	6,532,599		Std Err of Y Est	2995253.5	INSUFFICIENT DATA
87-88	2,691,594	3	9	3,900,319		R Squared	0.6085111	FOR QUADRATIC
		4	16	1,268,040		No. of Observations	3	
		5	25	(1,364,239)		Degrees of Freedom	1	
		6	36	(3,996,518)				
		7	49	(6,628,797)		X Coefficient(s)	-2832279	
		8	64	(9,261,076)		Std Err of Coef.	2110893.	

Student's T Statistic

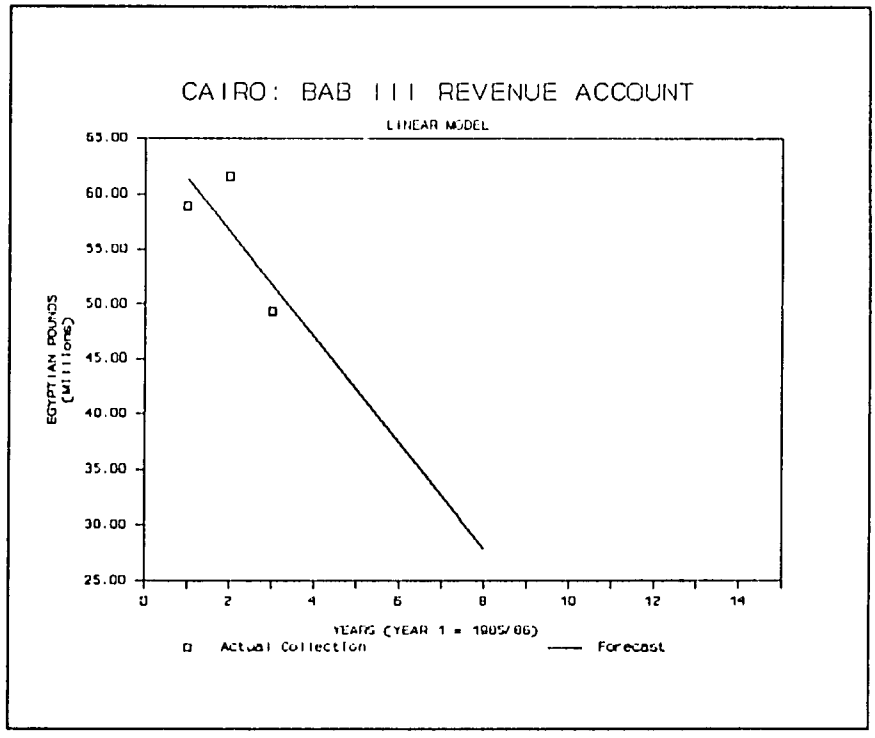
Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.609511	0.6085111032	1.245997	1	



Prepayments

						Regression Output:	
85-86	(11,210,042)	1	1	(10,764,936)	N/A	Constant	-14022341
86-87	(6,617,319)	2	4	(7,507,531)		Std Err of Y Est	1090282.5
87-88	(4,695,232)	3	9	(4,250,126)		R Squared	0.9469562
		4	16	(992,721)		No. of Observations	3
		5	25	2,264,684		Degrees of Freedom	1
		6	36	5,522,089			
		7	49	8,779,494		X Coefficient(s) 3257405	
		8	64	12,036,899		Std Err of Coef. 770946.2	

Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.946956	0.9469562119	4.225204	1	
Quadratic	N/A				



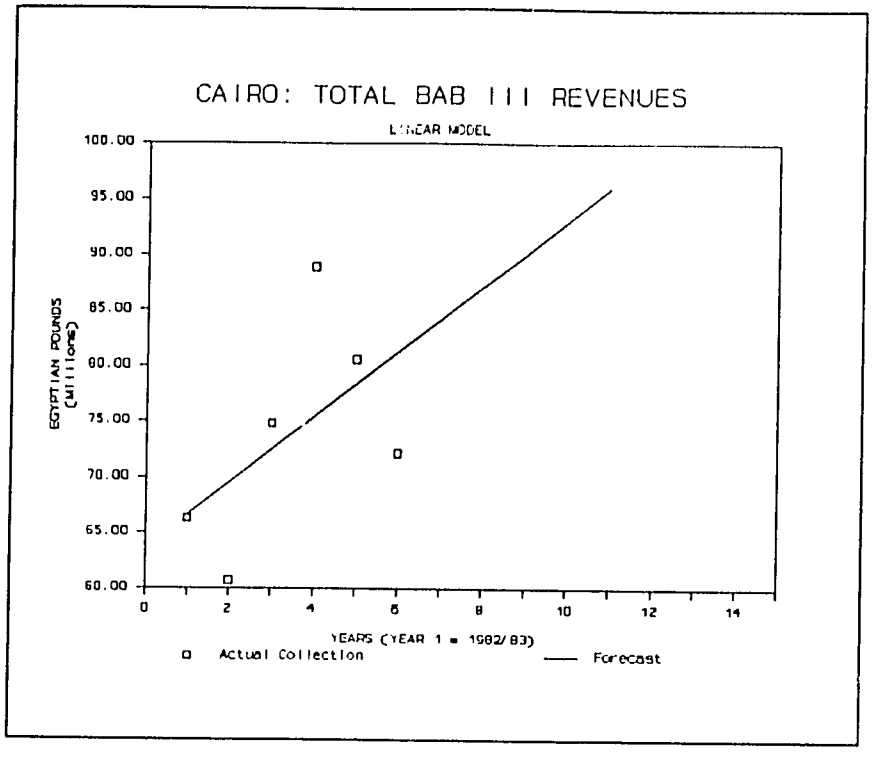
Revenue Account

85-86	58,926,473	1	1	61,400,409
86-87	61,554,347	2	4	56,506,474
87-88	49,338,603	3	9	51,612,539
		4	16	47,018,604
		5	25	42,224,669
		6	36	37,430,734
		7	49	32,636,799
		8	64	27,842,864

Regression Output:

Constant	66134344.
Std Err of Y Est	6059881.6
R Squared	0.5556829
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	-4793535
Std Err of Coef.	4264383.

Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.555682	0.5552829971	1.118775	1	
Quadratic	N/A				



Total BAB III

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	55,304,397	1	1	65,531,871	60,334,113
83-84	60,751,065	2	4	69,518,515	70,755,066
84-85*	74,329,356	3	9	72,451,153	77,409,264
85-86	66,307,055	4	16	75,385,802	80,344,008
85-87	80,590,353	5	25	78,320,446	73,559,333
87-88	72,127,329	6	36	81,255,330	75,057,333
		7	49	84,189,724	66,376,014
		8	64	87,124,378	54,335,340
		9	81	90,059,022	39,237,412
		10	100	92,993,666	23,850,130
		11	121	95,928,310	(3,235,237)

AC = CON + YEAR

Regression Output:

Constant	53647226.
Std Err of Y Est	9405432.7
R Squared	0.2385999
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	2934643.
Std Err of Coef.	2248329.

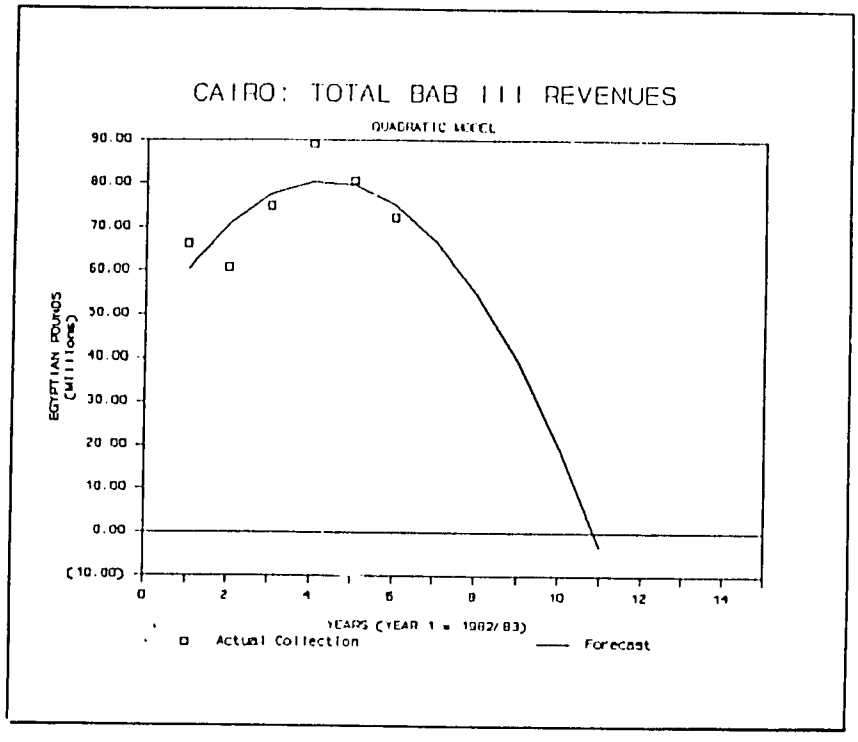
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	46293505
Std Err of Y Est	8656090.
R Squared	0.554495
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	15349934 -1959327
Std Err of Coef.	10130372 1415595.

Student's T Statistic

Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.238599	0.2385999748	1.305255	4	
Quadratic	0.554496	0.2557965547	1.312449	3	



otal BAB III

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
82-83	66,304,897	1	1	66,531,871	50,384,113
83-84	60,751,066	2	4	69,516,515	70,756,066
84-85A	74,829,066	3	9	72,451,153	77,403,354
85-86	88,907,066	4	16	75,385,802	80,344,008
86-87	80,590,859	5	25	78,320,446	73,559,333
87-88	72,127,929	6	36	81,255,090	75,057,333
		7	49	84,189,734	66,836,014
		8	64	87,124,378	54,335,040
		9	81	90,059,022	39,237,412
		10	100	92,993,666	19,860,110
		11	121	95,928,310	(3,235,897)

AC = CON + YEAR

Regression Output:

Constant	63647226.
Std Err of Y Est	9405432.7
R Squared	0.2986939
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	2934643.
Std Err of Coef.	2248323.

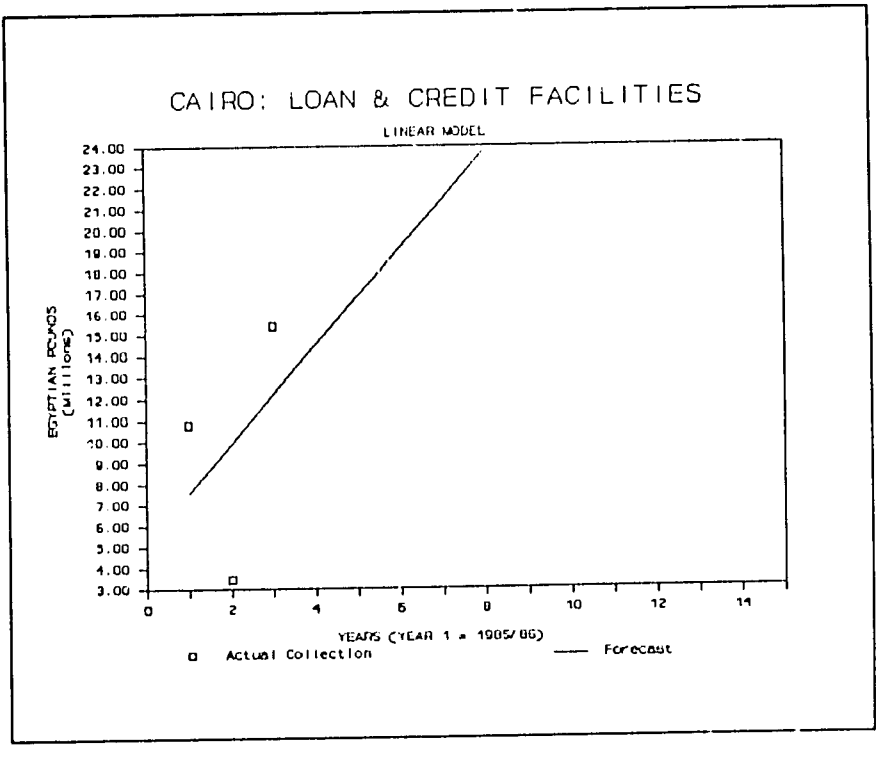
AC = CON + YEAR + YEAR 2

Regression Output:

Constant	45233505
Std Err of Y Est	8656090.
R Squared	0.5544436
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	15949934 -1859327
Std Err of Coef.	10130372 1416685.

Student's T Statistic

Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.298639	0.2986939748	1.305255	4	
Quadratic	0.554436	0.2557965647	1.312449	3	



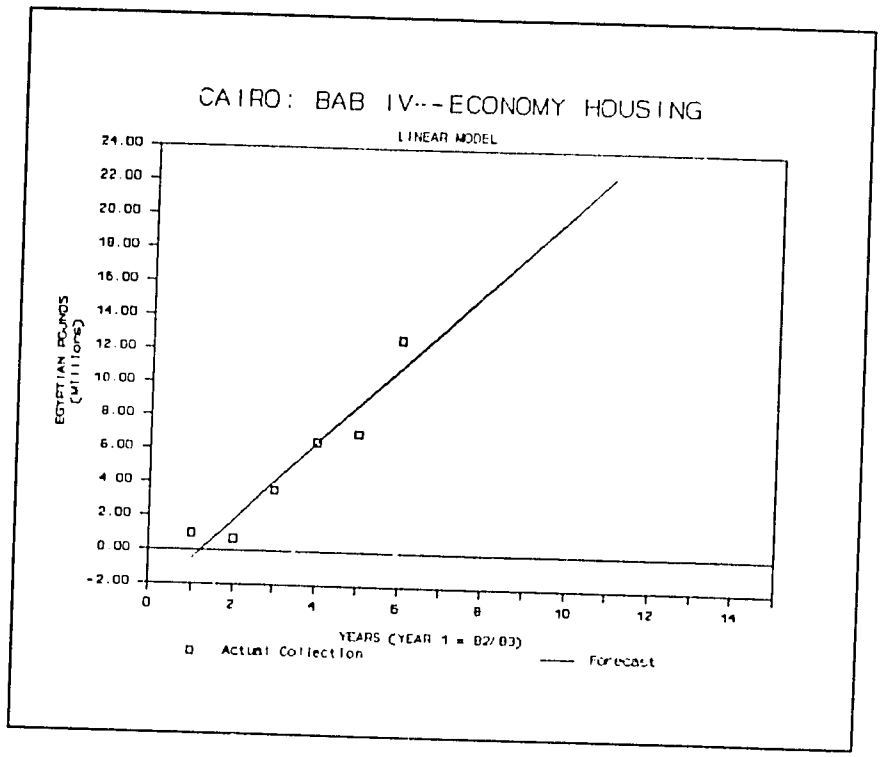
Loan and Credit Facilities

85-86	10,824,399	1	1	7,604,631
86-87	3,459,146	2	4	9,838,682
87-88	15,412,500	3	9	12,192,732
		4	16	14,486,783
		5	25	16,780,833
		6	36	19,074,884
		7	49	21,368,934
		8	64	23,662,955

Regression Output:

Constant	5310580.6
Std Err of Y Est	7866789.2
R Squared	0.1447243
No. of Observations	3
Degrees of Freedom	1
X Coefficient(s)	2294050.
Std Err of Coef.	5576201.

Regression	R-squared	Increase	Student's T	DF	Signif
Linear	0.144724	0.1447243724	0.411355	1	
Quadratic	N/A				



Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
Economy Housing Fund					
82-83	989,497	1	1	(496,987)	714,912
83-84	689,497	2	4	1,797,828	1,555,452
84-85 avg	3,565,331	3	9	4,092,623	3,123,120
85-86	6,481,164	4	16	6,387,418	5,417,915
86-87	7,017,602	5	25	8,682,213	8,439,637
87-88	12,677,033	6	36	10,977,008	12,188,688
		7	49	13,271,803	16,665,058
		8	64	15,566,599	21,865,371
		9	81	17,861,394	27,756,804
		10	100	20,156,195	34,456,365
		11	121	22,450,984	41,641,053

AC = CON + YEAR

Regression Output:

Constant	-2791762.
Std Err of Y Est	1530124.3
R Squared	0.9077524
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	2294795.
Std Err of Coef.	365769.0

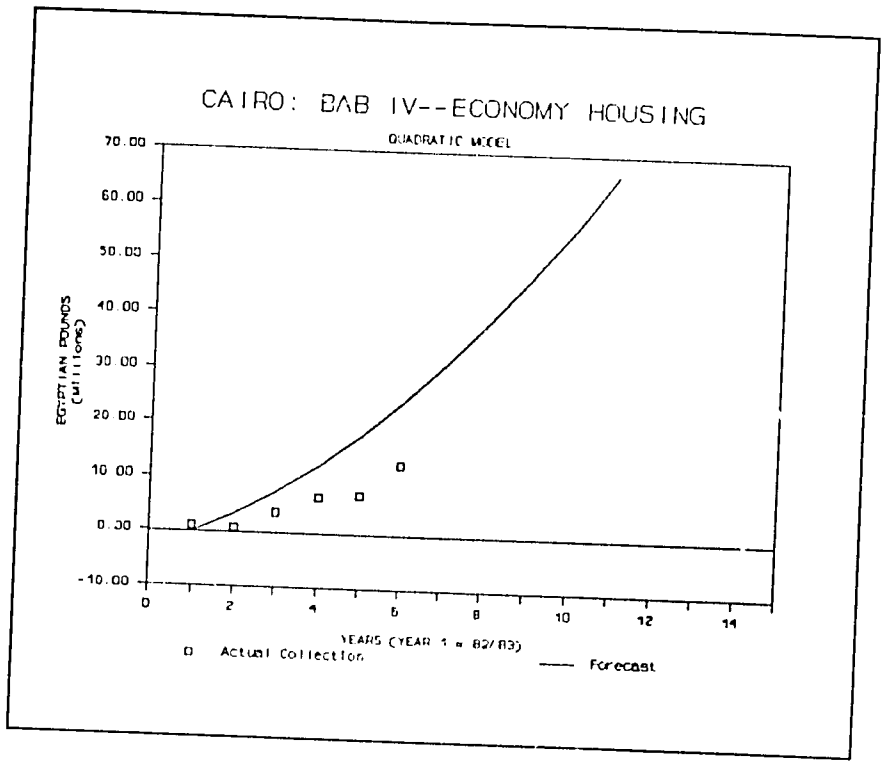
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	801455.9
Std Err of Y Est	1215243.769
R Squared	0.9563555[illegible]
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	-250151. 363563.6035
Std Err of Coef.	1422220. 196890.5519

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.907752	0.907752	6.273860226	4	0.992
Quadratic	0.956355	0.048603	1.827655470	3	0.802



Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
Economy Housing Fund					
82-83	985,497	1	1	1496,967	714,912
83-84	685,497	2	4	1,797,828	1,555,452
84-85* avg	3,565,331	3	9	4,092,623	3,123,120
85-86	6,481,164	4	16	6,387,418	5,417,915
86-87	7,017,602	5	25	8,682,213	8,435,837
87-88	12,677,033	6	36	10,977,008	12,188,885
		7	49	13,271,803	16,655,355
		8	64	15,566,599	21,863,371
		9	81	17,861,394	27,795,904
		10	100	20,156,189	34,456,365
		11	121	22,450,984	41,841,093

AC = CON + YEAR

Regression Output:

Constant	-2791762.
Std Err of Y Est	1530124.3
R Squared	0.907752
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	2254795.
Std Err of Coef.	385769.6

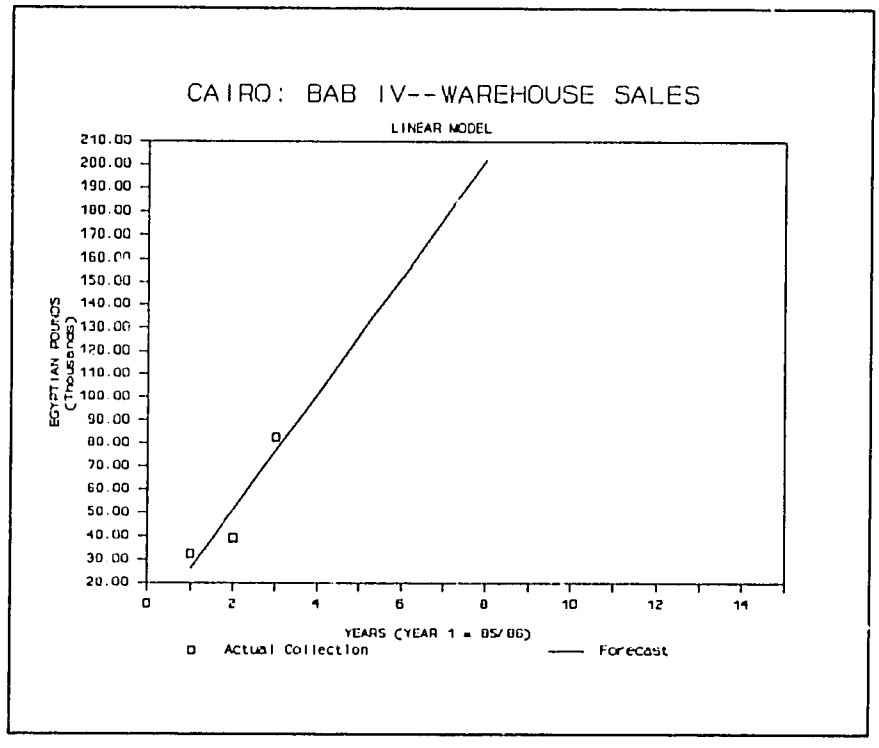
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	801499.9
Std Err of Y Est	1215243.789
R Squared	0.955355910
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-250151. 353563.6035
Std Err of Coef.	1422220. 196850.9519

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.907752	0.907752	6.273886226	4	# 992
Quadratic	0.955355	0.048607	1.827555670	3	# 802



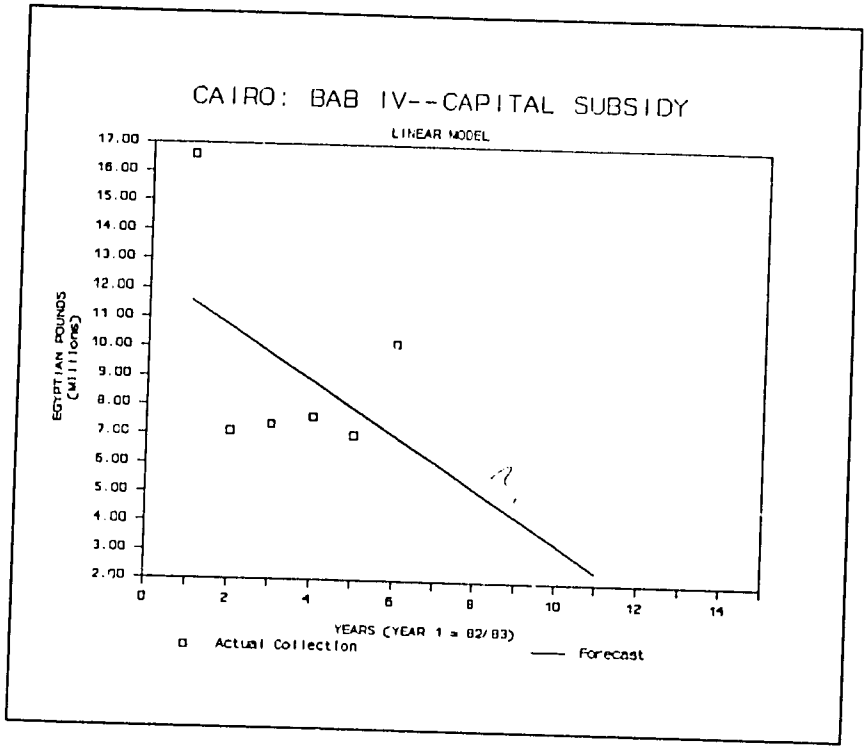
Warehouse Sales					
82-83	0				
83-84	0				
84-85	0				
85-86	32,722	1	1	26,560	NOT ENOUGH
86-87	39,281	2	4	51,606	DATA FOR
87-66	82,815	3	9	76,653	QUADRATIC
		4	16	101,699	
		5	25	126,746	
		6	36	151,792	
		7	49	176,839	
		8	64	201,885	

Regression Output:

Constant	1513	NOT ENOUGH DATA FOR	
Std Err of Y Est	15094.930	QUADRATIC MODEL	
R Squared	0.8463025		
No. of Observation	15665.11	3	
Degrees of Freedom	2632.459	1	
X Coefficient(s)	25046.5		
Std Err of Coef.	10673.76		

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.846302	0.846302	2.346548238	1	@ 60%
Quadratic	N/A	N/A	N/A	N/A	



ued Capital Subsidy

3	16,597,103
4	7,112,515
5* avg	7,371,564
5	7,530,513
7	7,010,334
3	10,195,204

1	1	11,609,407	15,170,674
2	4	10,693,453	9,381,200
3	9	9,777,439	5,823,495
4	16	8,861,545	5,012,532
5	25	7,945,531	7,233,329
6	36	7,029,537	10,530,304
7	49	6,113,533	16,335,230
8	64	5,197,729	23,716,315
9	81	4,281,775	33,484,151
10	100	3,365,821	45,336,767
11	121	2,449,867	53,430,132

Regression Output:

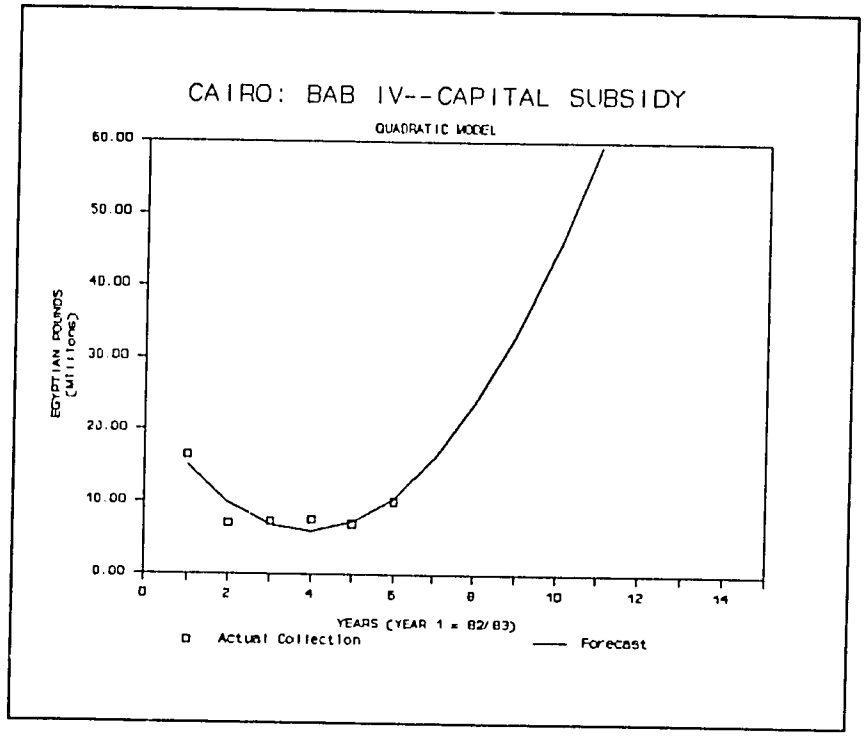
Constant	12525361.
Std Err of Y Est	3739239.1
R Squared	0.2080201
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	-315953.
Std Err of Coef.	393610.0

Regression Output:

Constant	22496907.4
Std Err of Y Est	2104291.473
R Squared	0.811765520
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	-3394513 1058379.954
Std Err of Coef.	2452638. 364395.5343

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.209020	0.209020	0.811732600	4	NO
Quadratic	0.811785	0.603765	3.102188784	3	@ 99%



Accrued Capital Subsidy

83-84	16,557,103
84-85	7,112,615
85-86 avg	7,271,564
86-86	7,630,515
86-87	7,010,334
87-88	10,195,004

1	1	11,606,407	15,170,674
2	4	10,653,453	9,901,[illegible]
3	9	9,777,455	6,525,455
4	16	8,951,545	6,012,532
5	25	7,945,591	7,233,333
6	36	7,039,637	10,590,904
7	49	6,113,683	16,055,230
8	64	5,197,729	23,716,315
9	81	4,281,775	33,484,161
10	100	3,365,821	45,365,787
11	121	2,449,867	59,430,132

Regression Output:

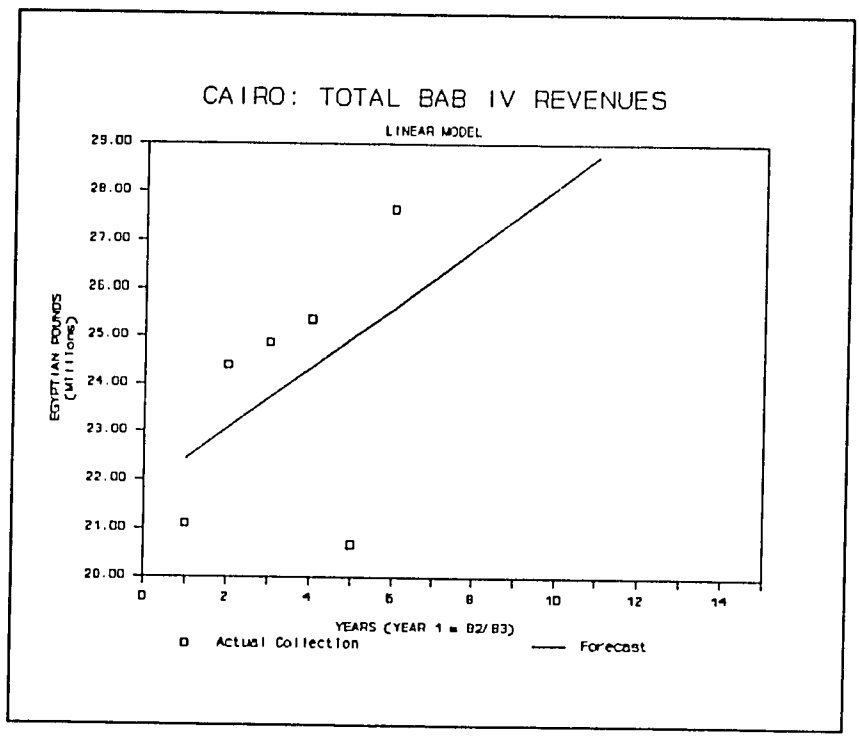
Constant	13525591.
Std Err of Y Est	3738235.1
R Squared	0.2002201
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	-515953.
Std Err of Coef.	853610.0

Regression Output:

Constant	22496507.4
Std Err of Y Est	2104291.473
R Squared	0.811785520
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	-8394613 1058379.964
Std Err of Coef.	2452888. 344395.5343

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.200802	0.200802	0.811782600	4	NS
Quadratic	0.811785	0.603785	3.102168764	3	# 90%



Total BAB IV

82-83	21,103,116
83-84	24,404,219
84-85* avg	24,879,330
85-86	25,354,441
86-87	26,684,536
87-88	27,650,084

1	1	22,437,556	22,303,163
2	4	23,067,583	23,094,462
3	9	23,697,609	23,885,124
4	16	24,327,634	24,435,150
5	25	24,957,660	24,994,536
6	36	25,587,685	25,453,290
7	49	26,217,711	25,841,406
8	64	26,847,736	26,148,664
9	81	27,477,762	26,375,726
10	100	28,107,787	26,521,931
11	121	28,737,812	26,587,499

Regression Output:

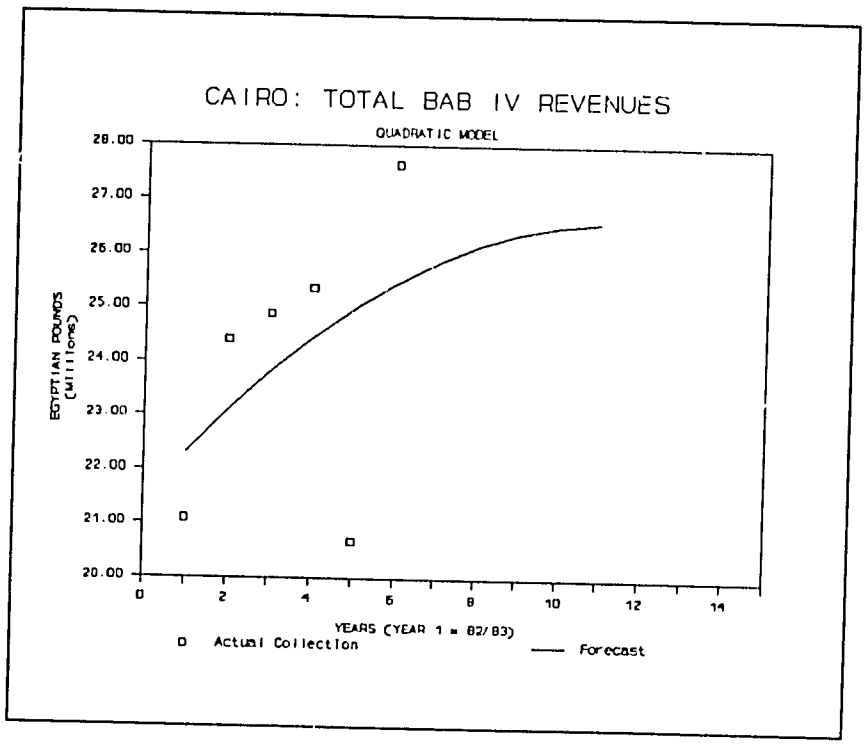
Constant	21807532.
Std Err of Y Est	2670730.0
R Squared	0.195794
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	630025.4
Std Err of Coef.	638426.6

Regression Output:

Constant	21431227.3
Std Err of Y Est	3060611.856
R Squared	0.197505410
No. of Observations	6
Degrees of Freedom	3
X Coefficient(s)	912254.1 -40318.375
Std Err of Coef.	3605293. 504163.4715

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.195794	0.195794	0.986840902	4	@ 60%
Quadratic	0.197505	0.001710	0.0755676665	3	NO



Total BAB IV

82-83	21,103,116	1	1	22,437,555	22,303,183	
83-84	24,404,219	2	4	23,067,583	23,094,462	
84-85* avg	24,879,330	3	9	23,697,609	23,805,124	
85-86	25,354,441	4	16	24,327,634	24,435,150	
86-87	26,684,536	5	25	24,957,660	24,984,535	
87-88	27,650,984	6	36	25,587,685	25,453,290	
		7	49	26,217,711	25,841,406	
		8	64	26,647,736	26,148,864	
		9	81	27,477,762	26,375,726	
		10	100	28,107,787	26,521,931	
		11	121	28,737,812	26,587,455	

Regression Output:

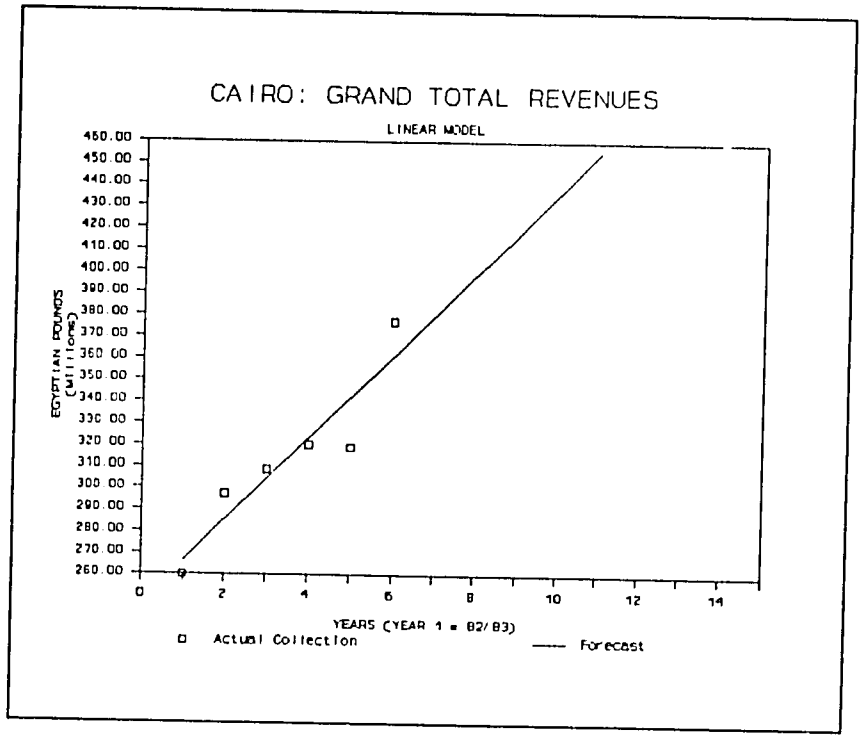
Constant	21807532.
Std Err of Y Est	2470725.0
R Squared	0.195754
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	830225.4
Std Err of Coef.	238426.6

Regression Output:

Constant	21431227.3
Std Err of Y Est	3056611.896
R Squared	0.197505410
No. of Observations	6
Degrees of Freedom	3
X Coefficients	912254.1 -40316.375
Std Err of Coef.	3805293. 504163.4715

Regression

	F squared	Increase	Student's t	df	Signif.
Linear	0.195754	0.195754	0.586840502	4	# 802
Quadratic	0.197505	0.001710	0.079567665	3	NO



GRAND TOTAL (for all four BAEs)

82-83	260,020,760	1	1 266,208.520	269,592.353
83-84	296,952,399	2	4 265,124.300	284,447.534
84-85* avg	306,377,394	3	9 304,040.080	301,333.014
85-86	319,802,389	4	16 322,955.861	320,248.795
86-87	316,793,048	5	25 341,871.641	341,194.874
87-88	377,041,833	6	36 360,787.421	364,171.253
		7	49 379,703.201	389,177.932
		8	64 398,616.981	416,214.910
		9	81 417,534.762	445,282.188
		10	100 436,450.542	476,379.785
		11	121 455,366.322	509,507.642

Regression Output:

Constant	247252739
Std Err of Y Est	15641214.
R Squared	0.881841
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	18915780
Std Err of Coef.	3786774.

Regression Output:

Constant	2567674[illegible]
Std Err of Y Est	17937885.78
R Squared	0.867138842
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	11809731 1015149.75
Std Err of Coef.	20993020 2935775.893

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.881841	0.881841	4.995222123	4	0.992
Quadratic	0.881138	0.005295	0.345785869	3	NO

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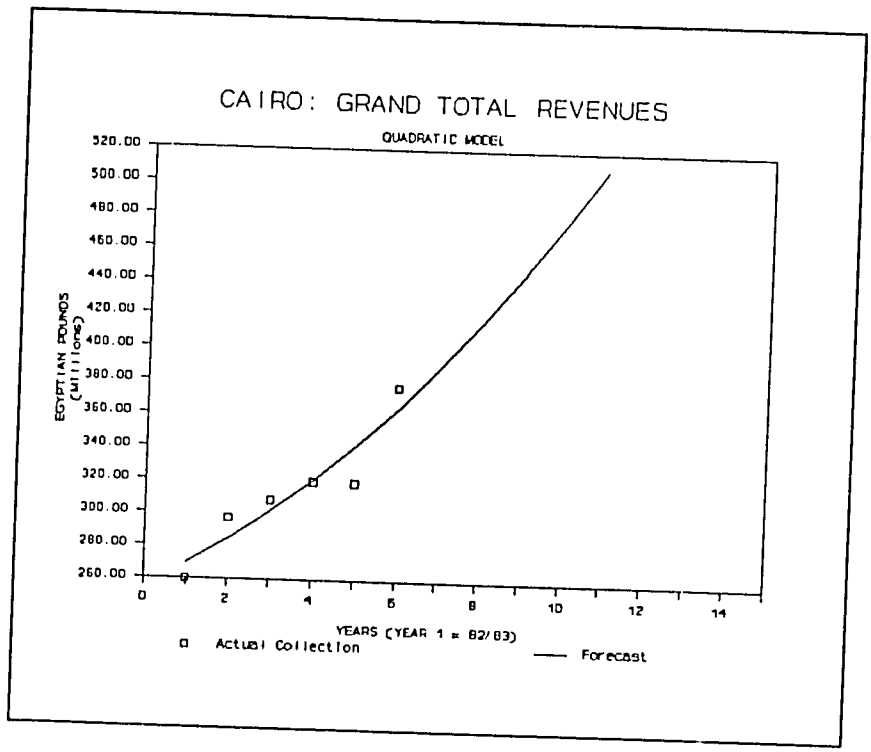

Fiscal Year	Actual Collection	Year	Year^2	Forecast Linear	Forecast Quadratic
GRAND TOTAL (for all four GAEs)					
83-84	280,030,760	1	1	286,206,520	285,592,359
84-85	296,952,395	2	4	285,104,300	294,447,534
84-85* avg	308,377,394	3	9	304,040,080	303,333,014
85-86	315,800,385	4	16	322,955,861	322,248,755
86-87	316,791,048	5	25	341,871,641	341,194,874
87-88	377,041,233	6	36	360,787,421	364,171,253
		7	49	379,703,201	389,177,932
		8	64	398,618,981	416,214,910
		9	81	417,534,761	445,282,188
		10	100	436,450,542	476,379,765
		11	121	455,366,322	509,507,642

AC = CON + YEAR

Regression Output:

Constant	2[illegible]
Std Err of Y Est	15841214.
R Squared	0.8818414
No. of Observations	6
Degrees of Freedom	4
X Coefficient(s)	16935780
Std Err of Coef.	3766774.

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	[illegible]
Std Err of Y Est	[illegible]
R Squared	[illegible]
No. of Observations	6
Degrees of Freedom	3
X Coefficients	[illegible] [illegible]
Std Err of Coef.	[illegible] [illegible]

Regression

	R squared	Increase	Statistic	df	Signif.
Linear	0.8818[illegible]	0.881841	4.695[illegible]	4	0.992
Quadratic	0.997[illegible]	0.0[illegible]	0.34[illegible]	3	NS

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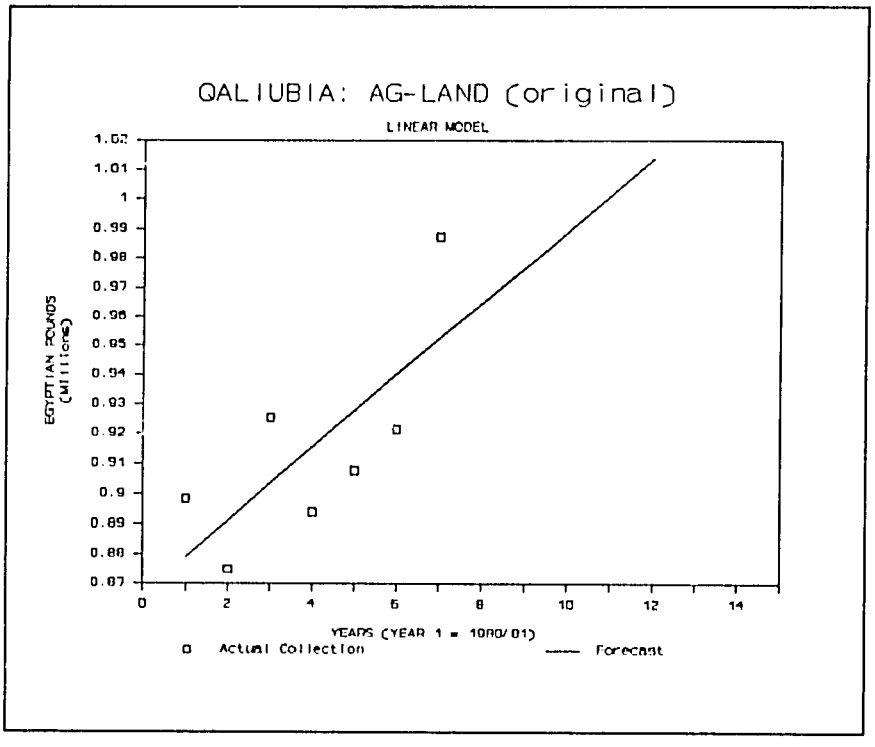
QALIUBIA

5 YEAR REVENUE FORECASTS

1988-89 - 1991-92



ITEM 1: AGRICULTURE
ITEM 1 Variety 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	898,410	1	1	878,965	899,964
81-82	874,996	2	4	891,193	878,599
82-83	925,458	3	9	903,421	857,234
83-84	894,171	4	16	915,649	835,872
84-85	907,770	5	25	927,877	814,511
85-86	921,422	6	36	940,106	793,153
86-87	987,418	7	49	952,334	771,797
87-88		8	64	964,562	750,443
88-89		9	81	976,790	729,091
89-90		10	100	989,018	707,740
90-91		11	121	1,001,246	686,392
91-92		12	144	1,013,474	665,046

AC = CON + TEAR

Regression Output:

Constant	866735.7
Std Err of Y Est	26739.24
R Squared	0.539413
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	12228.14
Std Err of Coef.	5053.243

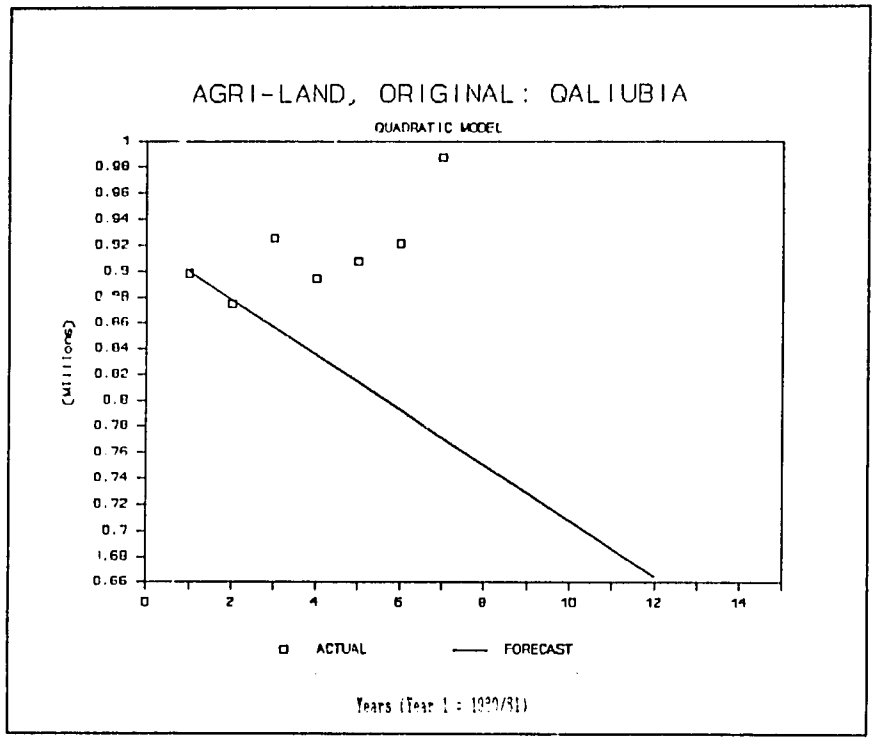
AC = CON + TEAR +YEAR^2

Regression Output:

Constant	917132.7
Std Err of Y Est	22876.91
R Squared	0.730289
No. of Observations	7
Degrees of Freedom	4
X Coefficient(s)	-21369.1 4193.666
Std Err of Coef.	20431.26 2436.075

STUDENT'S T TEST

Regression	R squared	Increase	Student's	df Signif
Linear	0.539413	0.539413	2.419860	5 @ 99%
Quadratic	0.730289	0.190876	1.682507	4 @ 80%



ITEM 1: AGRICULTURE
ITEM 1 Variety 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	898,410	1	1	678,355	999,964
81-82	874,995	2	4	831,193	878,593
82-83	925,458	3	9	903,421	857,234
83-84	894,171	4	16	915,649	835,872
84-85	997,770	5	25	927,877	814,511
85-86	921,402	6	36	940,105	793,153
86-87	987,415	7	49	952,334	771,797
87-88		8	64	964,562	750,443
88-89		9	81	976,790	729,091
89-90		10	100	989,018	707,740
90-91		11	121	1,001,246	686,392
91-92		12	144	1,013,474	665,046

AC = CON + YEAR

Regression Output:

Constant	866736.7
Std Err of Y Est	26739.24
R Squared	0.539413
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	12228.14
Std Err of Coef.	5053.243

AC = CON + YEAR +YEAR^2

Regression Output:

Constant	917132.7
Std Err of Y Est	22876.91
R Squared	0.730289
No. of Observations	7
Degrees of Freedom	4
X Coefficient(s)	-21959.1 4199.666
Std Err of Coef.	20431.26 2496.075

STUDENT'S T TEST

Regression	R squared	Increase	Student's	df	Signif
Linear	0.539413	0.539413	2.413960	5	@ 99%
Quadratic	0.730289	0.190876	1.682597	4	@ 80%

ITEM 1 Variety 2

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	127,132	1	1	143,186	128,519
81-82	143,226	2	4	144,807	153,612
82-83	143,458	3	9	146,429	178,797
83-84	190,559	4	16	148,050	203,803
84-85	137,377	5	25	149,672	228,302
85-86	140,468	6	36	151,294	254,003
86-87	148,133	7	49	152,915	279,106
87-88		8	64	154,537	304,211
88-89		9	81	156,159	329,318
89-90		10	100	157,780	354,426
90-91		11	121	159,402	379,537
91-92		12	144	161,024	404,650

Regression Output: AC = CON + YEAR

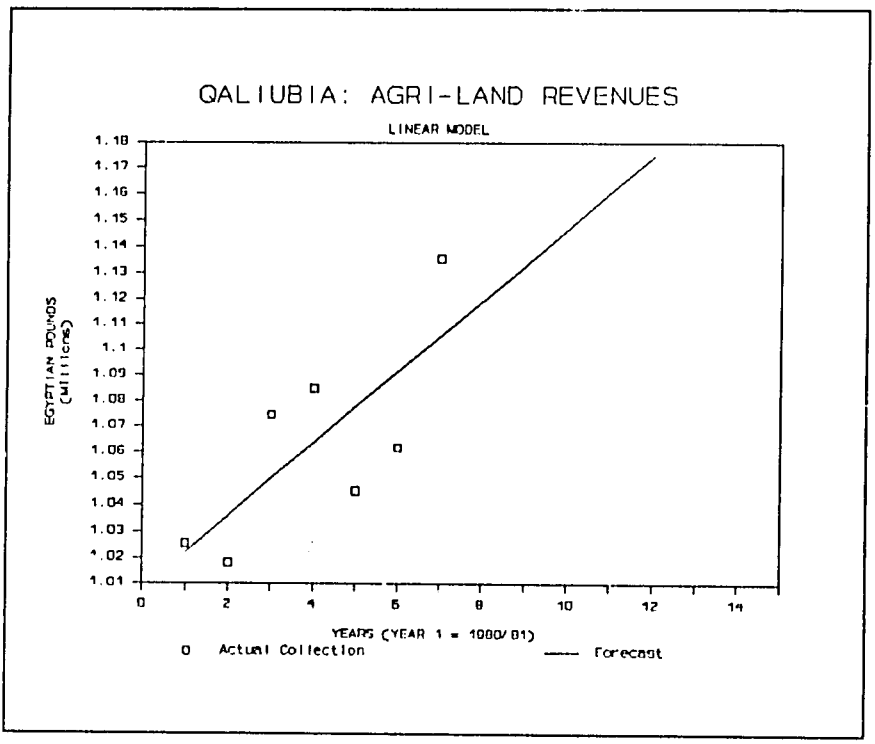
Constant	141563.8
Std Err of Y Est	21760.53
R Squared	0.030161
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	1621.642
Std Err of Coef.	4112.355

Regression Output: AC = CON + YEAR +YEAR^2

Constant	106361.5	
Std Err of Y Est	20277.58	
R Squared	0.326258	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	25089.83	-2933.52
Std Err of Coef.	18109.30	2212.476

Regression STUDENT'S T TEST

	R squared	Increase	Student's	df	Signif
Linear	0.030161	0.030161	0.394334	5	NO
Quadratic	0.326268	0.296106	1.325900	4	@ 60%



TOTAL ITEM 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1,025,542	1	1	1,022,047	1,028,453
81-82	1,018,122	2	4	1,035,312	1,032,073
82-83	1,074,503	3	9	1,048,776	1,035,695
83-84	1,064,730	4	16	1,063,641	1,039,320
84-85	1,045,147	5	25	1,077,505	1,042,946
85-86	1,061,990	6	36	1,091,370	1,046,575
86-87	1,135,551	7	49	1,105,234	1,050,205
87-88		8	64	1,119,099	1,053,837
88-89		9	81	1,132,963	1,057,472
89-90		10	100	1,146,828	1,061,108
90-91		11	121	1,160,692	1,064,746
91-92		12	144	1,174,557	1,068,387

AC : CON + YEAR

Regression Output:

Constant	1008152.
Std Err of Y Est	29051.93
R Squared	0.560518
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	13854.53
Std Err of Coef.	5490.293

AC : CON + YEAR +YEAR^2

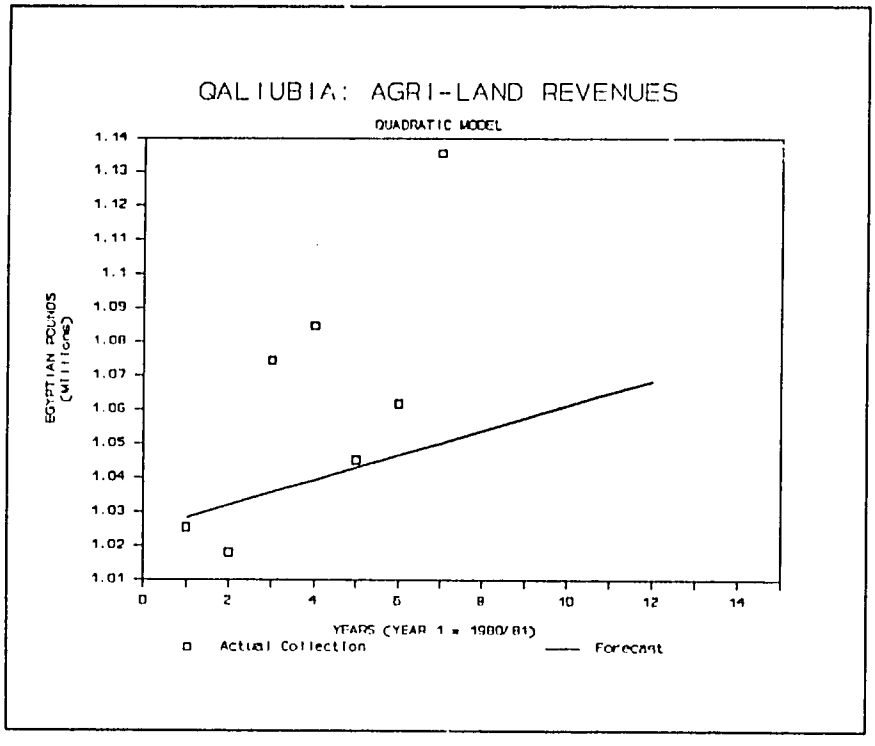
Regression Output:

Constant	1023553.	
Std Err of Y Est	31946.27	
R Squared	0.574870	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	3517.332	1280.892
Std Err of Coef.	28531.06	3485.623

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif
Linear	0.560518	0.560518	2.525278	5	@ 90%
Quadratic	0.574870	0.014352	0.367478	4	NO



TOTAL ITEM 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1,025,542	1	1	1,022,047	1,028,453
81-82	1,018,122	2	4	1,035,312	1,032,073
82-83	1,074,503	3	9	1,049,776	1,035,695
83-84	1,084,733	4	16	1,063,841	1,039,320
84-85	1,045,147	5	25	1,077,505	1,042,945
85-86	1,061,590	6	36	1,091,370	1,046,575
86-87	1,125,551	7	49	1,105,234	1,050,205
87-88		8	64	1,119,333	1,053,837
88-89		9	81	1,132,963	1,057,472
89-90		10	100	1,146,828	1,061,109
90-91		11	121	1,160,692	1,064,746
91-92		12	144	1,174,557	1,068,387

AC = CON + YEAR

Regression Output:

Constant	1008182.
Std Err of Y Est	29051.93
R Squared	0.560518
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	13564.53
Std Err of Coef.	5490.239

AC = CON + YEAR +YEAR^2

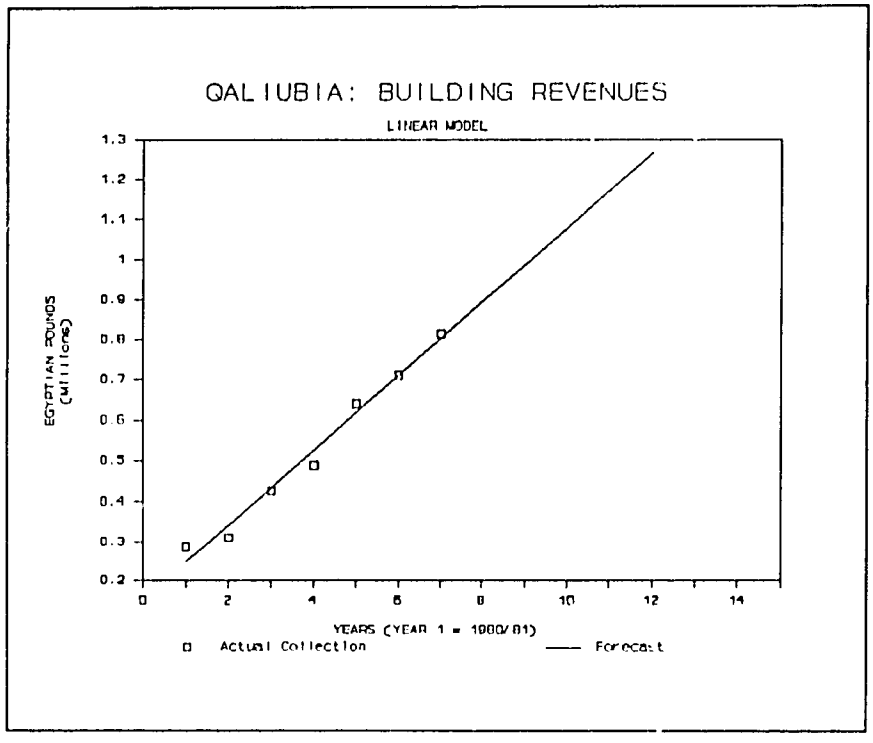
Regression Output:

Constant	1023553.	
Std Err of Y Est	31946.27	
R Squared	0.574870	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	3617.332	1290.692
Std Err of Coef.	28531.36	3485.623

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif
Linear	0.560518	0.560518	2.525278	5	@ 90%
Quadratic	0.574870	0.014352	0.357473	4	NO



ITEM 2 : BUILDINGS

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	257.659	1	1	248.127	252.111
81-82	311.466	2	4	340.528	337.942
82-83	432.595	3	9	432.929	388.776
83-84	477.316	4	16	525.331	445.612
84-85	540.373	5	25	617.732	514.450
85-86	7[illegible].843	6	36	710.133	583.283
86-87	8[illegible].457	7	49	802.535	622.131
87-88		8	64	894.936	631.975
88-89		9	81	987.338	733.821
89-90		10	100	1.079.739	799.653
90-91		11	121	1.172.140	877.518
91-92		12	144	1.264.542	918.370

AC = CON + YEAR

Regression Output:

Constant	155725.2
Std Err of Y Est	23944.33
R Squared	0.981591
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	92401.35
Std Err of Coef.	5658.947

AC = CON + YEAR +YEAR^2

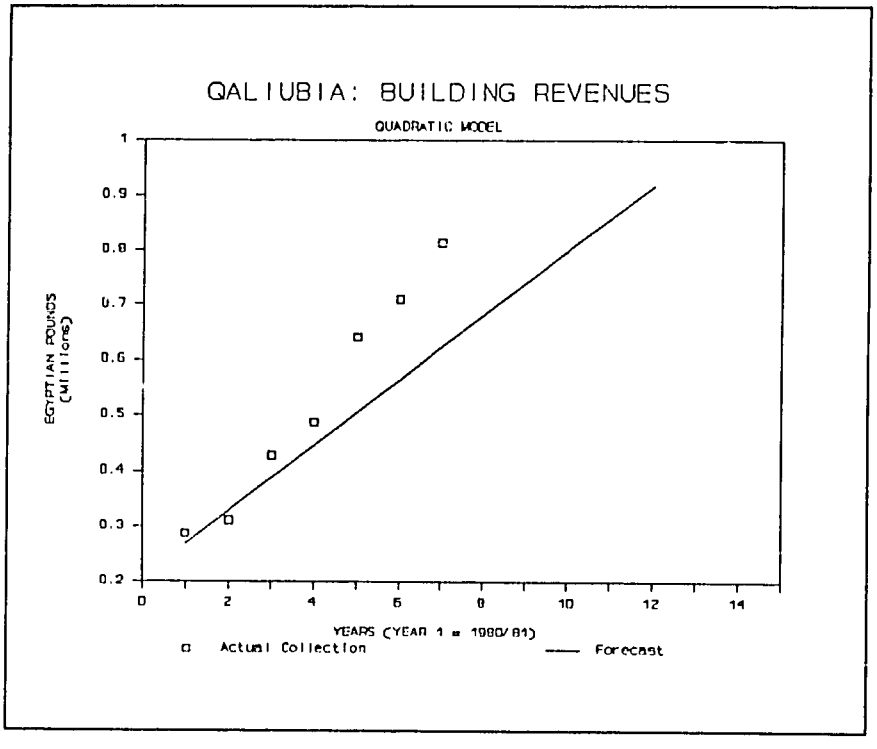
Regression Output:

Constant	236024.1	
Std Err of Y Est	27424.25	
R Squared	0.987665	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	56328.78	4195.571
Std Err of Coef.	24474.61	2950.049

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df Signif
Linear	0.981591	0.981591	15.32836	5 @ 99+%
Quadratic	0.987665	0.006074	1.403512	4 @ 60%



ITEM 2 : BUILDINGS

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	287,659	1	1	248,127	269,111
81-82	311,466	2	4	340,528	327,942
82-83	426,895	3	9	432,929	386,776
83-84	487,816	4	16	525,331	445,612
84-85	640,373	5	25	617,732	504,450
85-86	703,643	6	36	710,133	563,289
86-87	613,457	7	49	802,535	622,131
87-88		8	64	894,936	680,975
88-89		9	81	987,338	739,821
89-90		10	100	1,079,739	798,669
90-91		11	121	1,172,140	857,518
91-92		12	144	1,264,542	916,370

AC = CON + YEAR

Regression Output:

Constant	155725.2
Std Err of Y Est	29944.33
R Squared	0.981591
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	92401.35
Std Err of Coef.	5658.947

AC = CON + YEAR +YEAR^2

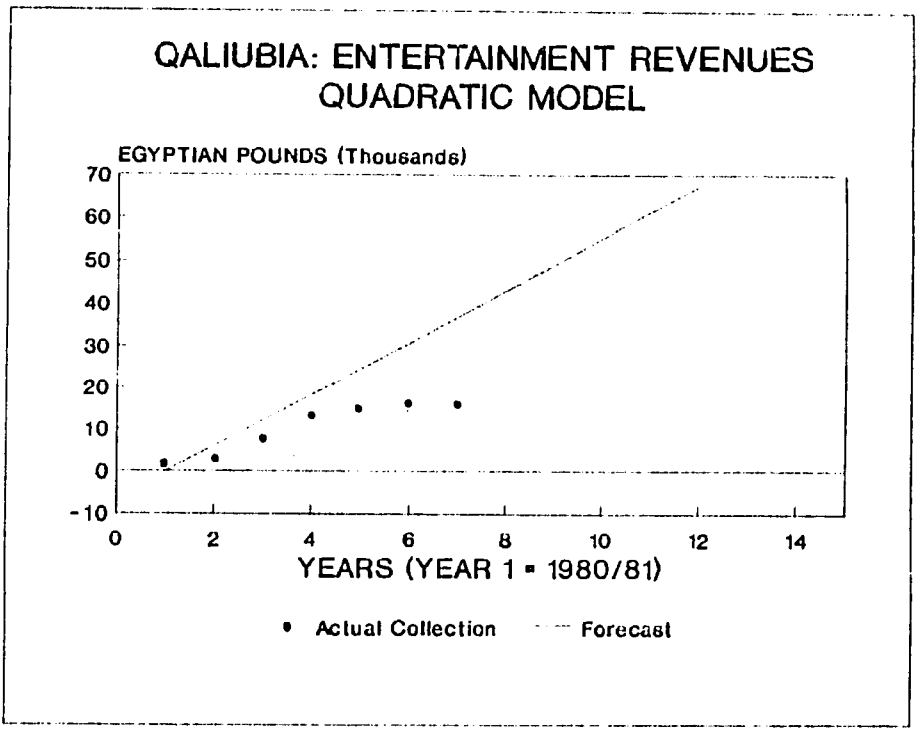
Regression Output:

Constant	206084.1	
Std Err of Y Est	27404.25	
R Squared	0.987665	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	58828.78	4196.571
Std Err of Coef.	24474.61	2990.049

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df Signif
Linear	0.981591	0.981591	16.32836	5 @ 99%
Quadratic	0.987665	0.006074	1.403512	4 @ 60%



ITEM 3 :ENTERTAINMENT

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1,147	1	1	1,901	(224)
81-82	2,812	2	4	4,644	5,924
82-83	7,549	3	9	7,366	12,674
83-84	13,149	4	16	10,128	18,226
84-85	14,590	5	25	12,870	24,380
85-86	16,137	6	36	15,612	30,536
86-87	15,539	7	49	18,354	36,635
87-88		8	64	21,096	42,855
88-89		9	81	23,838	49,017
89-90		10	100	26,580	55,181
90-91		11	121	29,322	61,347
91-92		12	144	32,064	67,515

AC = CON + YEAR

Regression Output:

Constant	-840.571
Std Err of Y Est	2209.402
R Squared	0.896109
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	2742.035
Std Err of Coef.	417.5379

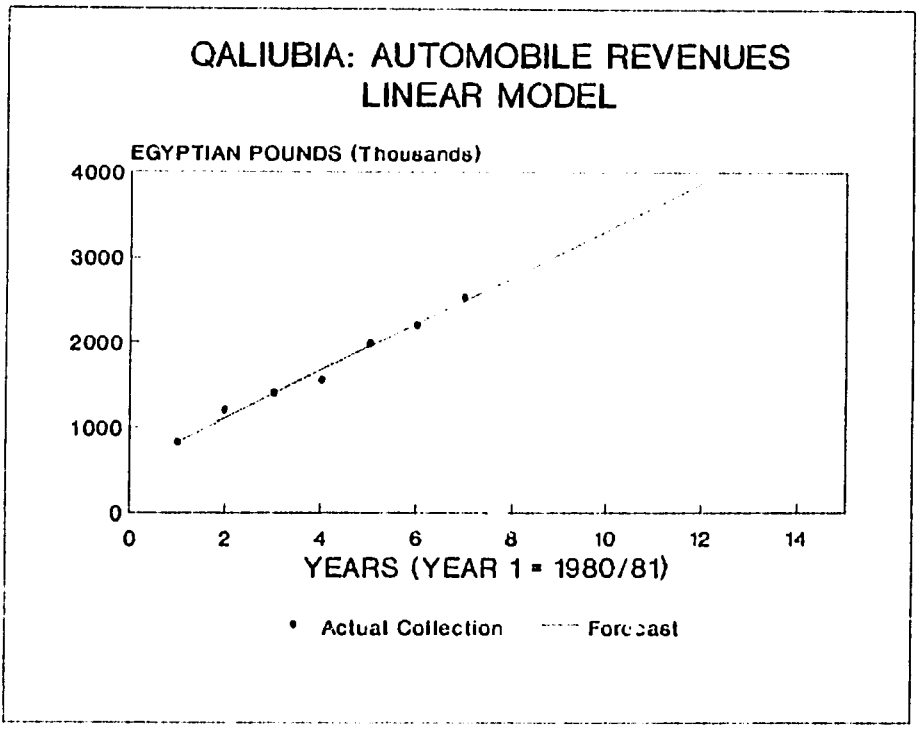
AC = CON + YEAR +YEAR^2

Regression Output:

Constant	-5345.26	
Std Err of Y Est	1517.130	
R Squared	0.960611	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	6145.178	-425.392
Std Err of Coef.	1354.942	165.5325

STUDENT'S T TEST

Regression	R squared	Increase	Student's	df Signif?
Linear	0.896109	0.896109	6.567153	5 @ 99+%
Quadratic	0.960611	0.064701	2.569844	4 @ 90%



ITEM 4 : AUTOMOBILE

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	811,430	1	1	836,973	860,456
81-82	1,200,532	2	4	1,113,304	1,099,217
82-83	1,331,010	3	9	1,389,635	1,337,978
83-84	1,557,298	4	16	1,665,966	1,576,741
84-85	1,968,177	5	25	1,942,296	1,815,506
85-86	2,204,484	6	36	2,218,627	2,054,273
86-87	2,428,828	7	49	2,494,958	2,293,042
87-88		8	64	2,771,289	2,531,813
88-89		9	81	3,047,620	2,770,586
89-90		10	100	3,323,951	3,009,361
90-91		11	121	3,600,282	3,248,138
91-92		12	144	3,876,613	3,486,917

AC = CON + YEAR

Regression Output:

Constant	560642
Std Err of Y Est	66466.12
R Squared	0.989774
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	276330.8
Std Err of Coef.	12560.91

AC = CON + YEAR +YEAR^2

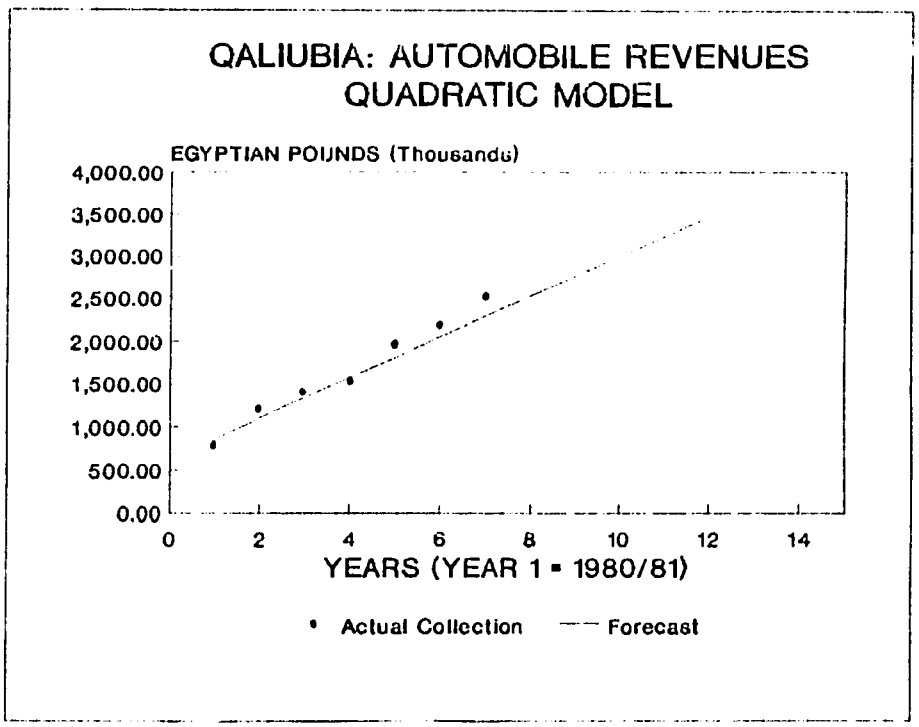
Regression Output:

Constant	617004.4	
Std Err of Y Est	71126.01	
R Squared	0.990632	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	238755.9	4696.869
Std Err of Coef.	63522.30	7760.464

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif?
Linear	0.989774	0.989774	21.99926	5	@ 99+%
Quadratic	0.990632	0.000857	0.605228	4	NO



ITEM 4 : AUTOMOBILE

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	811,430	1	1	836,973	855,456
81-82	1,[illegible],532	2	4	1,113,304	1,[illegible],217
82-83	1,331,010	3	9	1,389,635	1,337,978
83-84	1,557,398	4	16	1,665,966	1,576,741
84-85	1,[illegible],177	5	25	1,942,296	1,815,506
85-86	2,204,434	6	36	2,218,627	2,054,273
86-87	2,[illegible],828	7	49	2,494,958	2,[illegible],042
87-88		8	64	2,771,289	2,531,813
88-89		9	81	3,047,620	2,773,586
89-90		10	100	3,323,951	3,[illegible],361
90-91		11	121	3,600,282	3,246,138
91-92		12	144	3,676,613	3,466,917

AC = CON + YEAR

Regression Output:

Constant	555642
Std Err of Y Est	66466.12
R Squared	0.989774
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	276330.8
Std Err of Coef.	12560.91

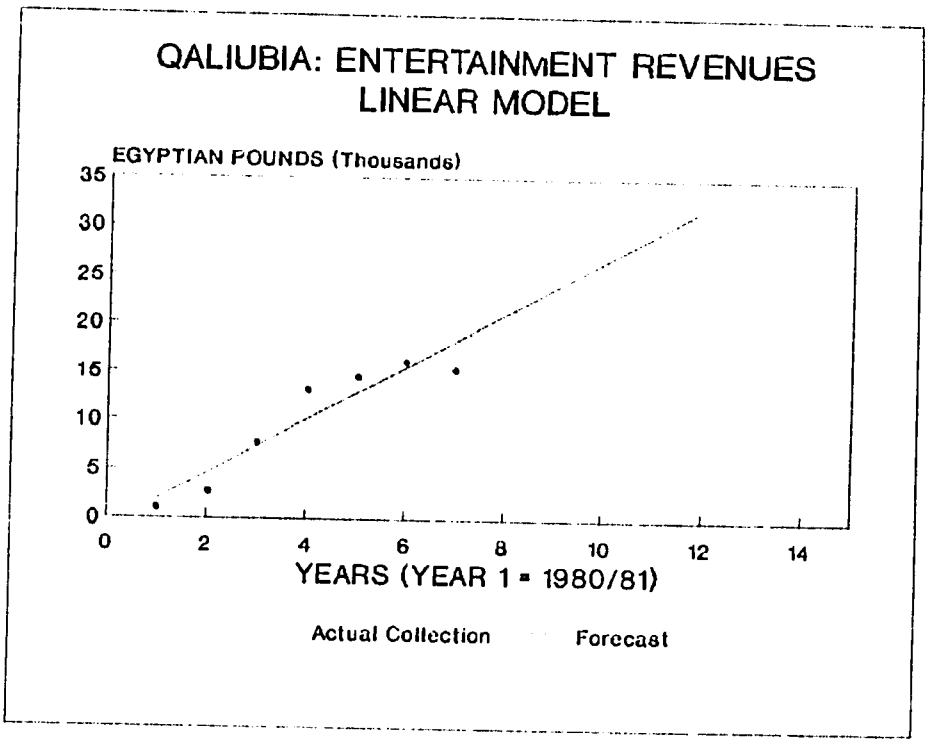
AC = CON + YEAR +YEAR^2

Regression Output:

Constant	617034.4	
Std Err of Y Est	71128.01	
R Squared	0.990632	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	238755.9	4636.659
Std Err of Coef.	63522.30	7782.434

STUDENT'S T TEST

Regression	R squared	Increase	Student's	df	Signif?
Linear	0.989774	0.989774	21.99926	5	@ 99+%
Quadratic	0.990632	0.000857	0.605228	4	NO



ITEM 3 :ENTERTAINMENT (total only)

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1.147	1	1	1.932	(224)
81-82	2.[illegible]	2	4	4.644	5.924
82-83	7.549	3	9	7.355	11.074
83-84	13.149	4	16	10.123	13.228
84-85	14.590	5	25	12.870	14.350
85-86	16.137	6	36	15.612	15.536
86-87	15.539	7	49	18.354	16.535
87-88		8	64	21.096	18.555
88-89		9	81	23.838	23.017
89-90		10	100	26.580	28.181
90-91		11	121	29.322	31.347
91-92		12	144	32.064	37.515

AC = CON + YEAR

Regression Output:

Constant	-[illegible].571
Std Err of Y Est	[illegible].422
R Squared	0.[illegible]103
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	2742.035
Std Err of Coef.	417.5373

AC = CON + YEAR +YEAR^2

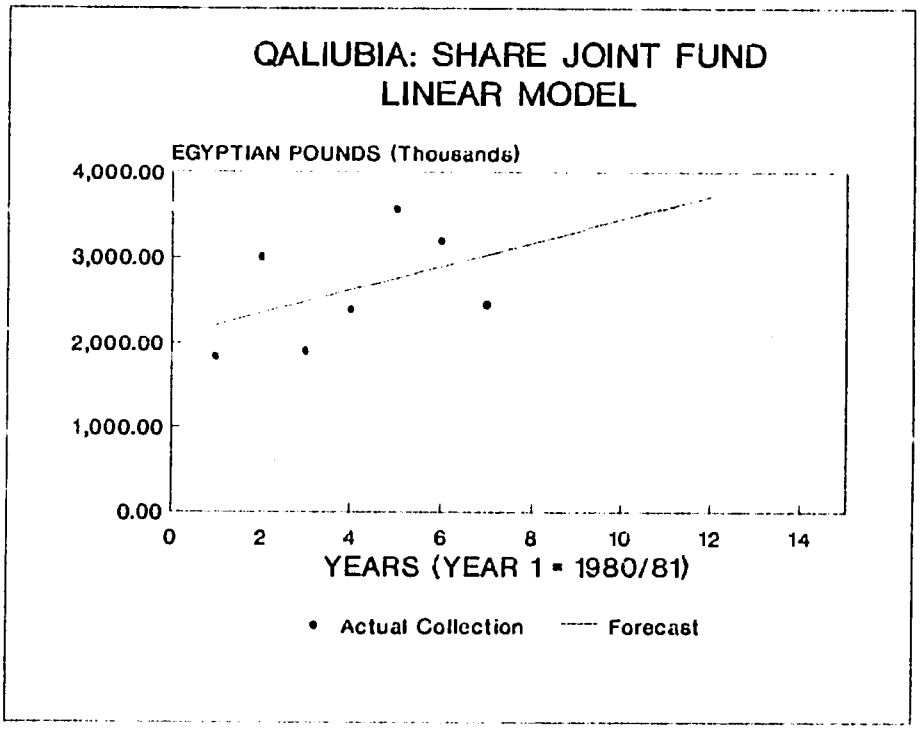
Regression Output:

Constant	-[illegible]
Std Err of Y Est	[illegible]
R Squared	0.[illegible]
No. of Observations	7
Degrees of Freedom	4
X Coefficient(s)	6145.176 -[illegible]
Std Err of Coef.	1354.942 [illegible]

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	If Signif
Linear	0.[illegible]103	0.[illegible]103	6.567153	5 @ 99%
Quadratic	0.[illegible]311	0.064701	3.563844	4 @ 90%



ITEM 6 SHARE JOINT FUND

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1,842,000	1	1	2,204,993	1,933,889
81-82	2,397,750	2	4	2,342,137	2,504,593
82-83	1,896,000	3	9	2,479,415	3,075,133
83-84	2,380,717	4	16	2,616,774	3,645,754
84-85	3,571,172	5	25	2,754,149	4,216,373
85-86	3,196,875	6	36	2,891,512	4,787,007
86-87	2,433,000	7	49	3,028,891	5,357,637
87-88		8	64	3,166,250	5,928,265
88-89		9	81	3,303,619	6,498,902
89-90		10	100	3,440,987	7,069,536
90-91		11	121	3,578,356	7,640,175
91-92		12	144	3,715,725	8,210,815

AC = CON + YEAR

Regression Output:

Constant	2067293.
Std Err of Y Est	643937.2
R Squared	0.293089
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	137358.2
Std Err of Coef.	121692.7

AC = CON + YEAR +YEAR^2

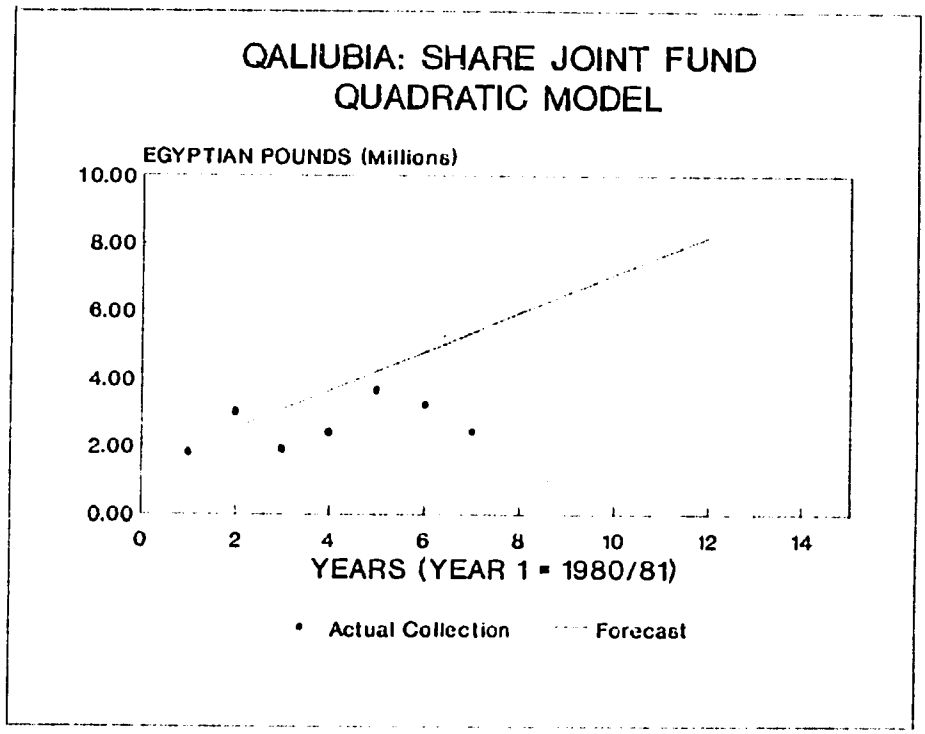
Regression Output:

Constant		1417427.
Std Err of Y Est		675817.3
R Squared		0.297783
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	570615.8	-54155.9
Std Err of Coef.	603569.0	73737.68

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df Signif?
Linear	0.293089	0.293089	1.125217	5 @ 60%
Quadratic	0.297783	0.004694	0.734443	4 50



ITEM 6 SHARE JOINT FUND

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	1,642,000	1	1	2,204,668	1,933,889
81-82	2,337,750	2	4	2,342,037	2,564,503
82-83	1,896,000	3	9	2,479,406	3,075,150
83-84	2,380,717	4	16	2,616,774	3,645,754
84-85	3,571,078	5	25	2,754,143	4,216,379
85-86	3,1[illegible],675	6	36	2,891,512	4,787,007
86-87	2,433,000	7	49	3,028,881	5,357,637
87-88		8	64	3,166,250	5,928,268
88-89		9	81	3,303,619	6,498,902
89-90		10	100	3,440,987	7,069,538
90-91		11	121	3,578,356	7,640,175
91-92		12	144	3,715,725	8,210,815

AC = CON + YEAR

Regression Output:

Constant	2067295.
Std Err of Y Est	843937.2
R Squared	0.203889
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	137388.8
Std Err of Coef.	121692.7

AC = CON + YEAR +YEAR^2

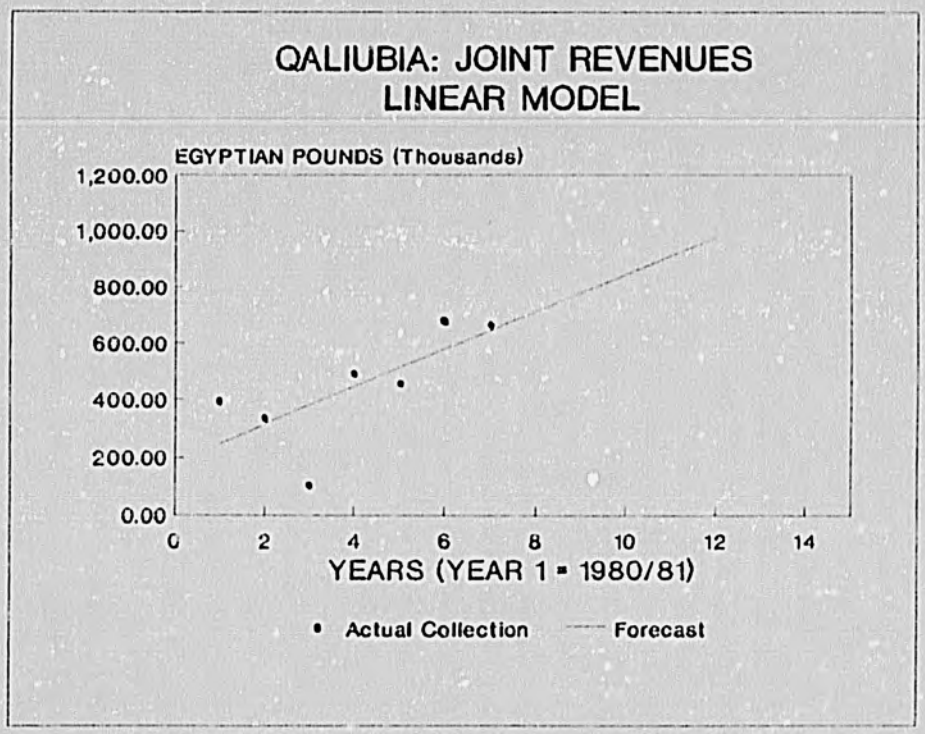
Regression Output:

Constant	1417427.	
Std Err of Y Est	675817.0	
R Squared	0.297763	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	570616.6	-54155.9
Std Err of Coef.	603569.0	73737.88

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif?
Linear	0.203889	0.203889	1.126817	5	@ 60%
Quadratic	0.297763	0.094694	0.734440	4	NO



ITEM 5 : SHARE JOINT REVENUES
ITEM 5 Var. 2 : Transfer Capital ITEM 5 Variables 1.0.4 have no data

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	396,579	1	1	247,889	346,319
81-82	333,320	2	4	314,305	255,252
82-83	101,158	3	9	380,721	164,187
83-84	491,192	4	16	447,139	73,124
84-85	464,800	5	25	513,554	(17,938)
85-86	676,132	6	36	579,970	(108,395)
86-87	666,712	7	49	646,386	(200,052)
87-88		8	64	712,803	(291,107)
88-89		9	81	779,219	(382,163)
89-90		10	100	845,635	(473,220)
90-91		11	121	912,051	(564,259)
91-92		12	144	978,468	(655,308)

AC = CON + YEAR

Regression Output:

Constant	181472.5
Std Err of Y Est	151379.4
R Squared	0.518758
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	66416.05
Std Err of Coef.	33603.02

AC = CON + YEAR +YEAR^2

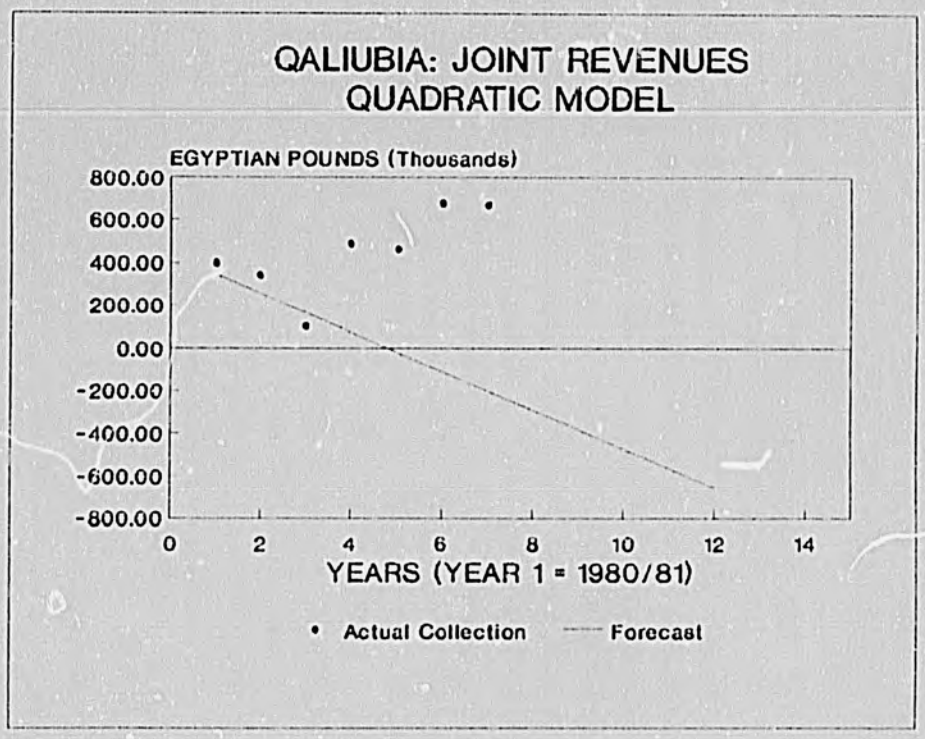
Regression Output:

Constant	417701.5	
Std Err of Y Est	143201.1	
R Squared	0.655462	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	-91069.7	13665.75
Std Err of Coef.	127832.2	15324.52

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif?
Linear	0.518758	0.518758	2.321535	5	@ 90%
Quadratic	0.655432	0.136723	1.259926	4	@ 60%



ITEM 5 : SHARZ JOINT REVENUES
ITEM 5 Var. 2 : Transfer Capital

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	396,579	1	1	247,889	346,319
81-82	333,320	2	4	314,305	255,252
82-83	101,198	3	9	380,721	164,187
83-84	491,192	4	16	447,138	73,124
84-85	464,830	5	25	513,554	(17,936)
85-86	676,132	6	36	579,970	(108,995)
86-87	666,712	7	49	646,386	(200,052)
87-88		8	64	712,803	(291,107)
88-89		9	81	779,219	(382,159)
89-90		10	100	845,635	(473,210)
90-91		11	121	912,051	(564,259)
91-92		12	144	978,468	(655,306)

AC = CON + YEAR		AC = CON + YEAR +YEAR^2		
Regression Output:		Regression Output:		
Constant	181472.5	Constant		417701.5
Std Err of Y Est	151379.4	Std Err of Y Est		143201.1
R Squared	0.518758	R Squared		0.655482
No. of Observations	7	No. of Observations		7
Degrees of Freedom	5	Degrees of Freedom		4
X Coefficient(s)	66416.25	X Coefficient(s)	-91069.7	19685.75
Std Err of Coef.	28608.02	Std Err of Coef.	127692.2	15624.52

ITEM 5 Varieties 1,3,4 have no data

STUDENT'S T TEST

Regression	R squared	Increase	Student's	df	Signif'
Linear	0.518758	0.518758	2.321595	5	@ 90%
Quadratic	0.655482	0.136723	1.253926	4	@ 60%

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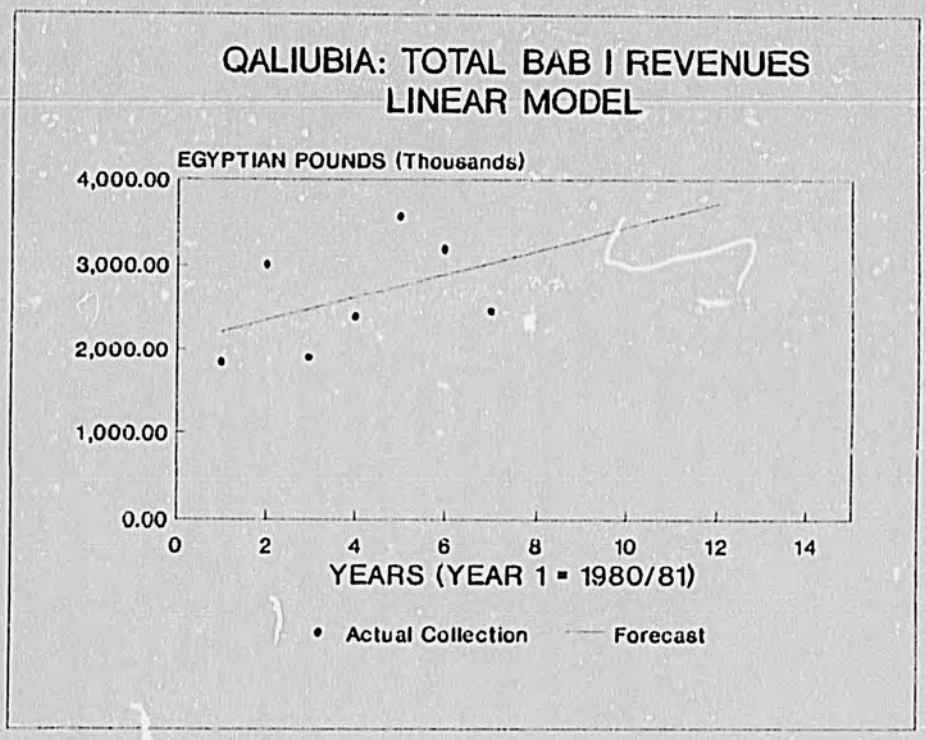


TOTAL BAB I

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	4,364,357	1	1	4,561,605	4,437,399
81-82	5,864,002	2	4	5,150,729	5,224,896
82-83	4,897,155	3	9	5,739,853	6,011,796
83-84	6,014,902	4	16	6,328,976	6,798,697
84-85	7,704,195	5	25	6,918,100	7,585,600
85-86	7,855,167	6	36	7,507,224	8,372,505
86-87	7,593,057	7	49	8,096,348	9,159,413
87-88		8	64	8,685,472	9,946,322
88-89		9	81	9,274,596	10,733,233
89-90		10	100	9,863,720	11,520,146
90-91		11	121	10,452,844	12,307,061
91-92		12	144	11,041,968	13,093,979

AC = CON + YEAR

Regression Output:

Constant	3972480.
Std Err of Y Est	686413.4
R Squared	0.804880
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	589123.9
Std Err of Coef.	129719.9

AC = CON + YEAR +YEAR^2

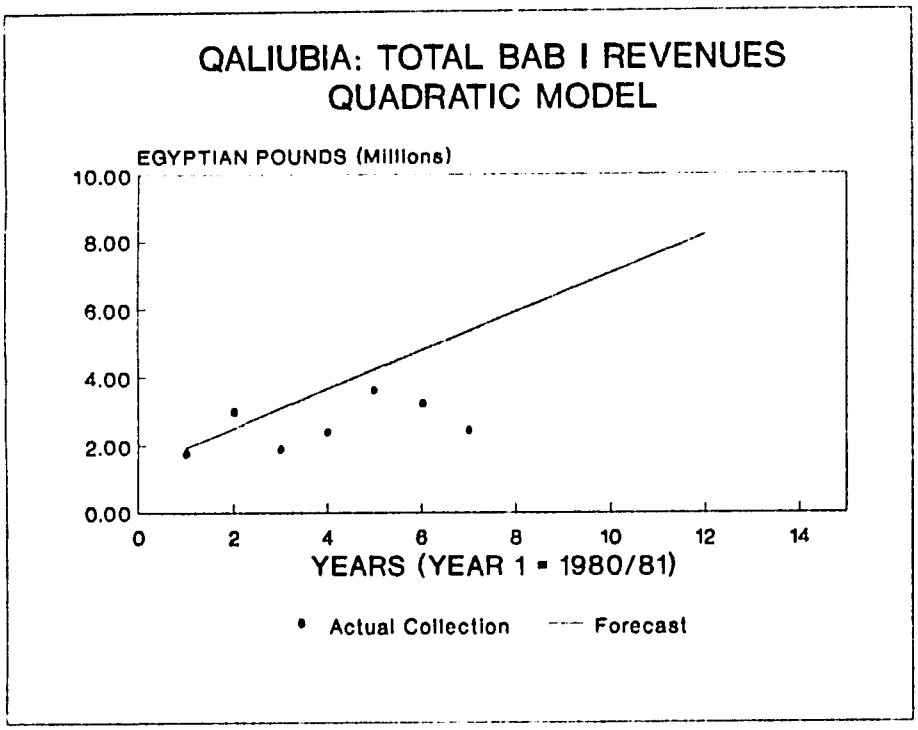
Regression Output:

Constant	3675825.	
Std Err of Y Est	759025.9	
R Squared	0.809132	
No. of Observations	7	
Degrees of Freedom	4	
X Coefficient(s)	786894.2	-24721.2
Std Err of Coef.	677682.4	62816.51

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif?
Linear	0.804880	0.804880	4.541505	5	@ 99+%
Quadratic	0.809132	0.004251	0.296506	4	NO



TOTAL BAB I

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	4,384,357	1	1	4,561,635	4,437,399
81-82	5,894,002	2	4	5,150,729	5,224,895
82-83	4,897,155	3	9	5,739,653	6,011,796
83-84	6,014,302	4	16	6,328,575	6,798,597
84-85	7,704,155	5	25	6,919,120	7,585,500
85-86	7,865,167	6	36	7,507,224	8,372,505
86-87	7,593,057	7	49	8,095,342	9,159,413
87-88		8	64	8,685,472	9,946,322
88-89		9	81	9,274,535	10,733,233
89-90		10	100	9,859,720	11,520,146
90-91		11	121	10,452,844	12,307,061
91-92		12	144	11,041,352	13,093,979

AC = CON + YEAR

Regression Output:

Constant	3972480.
Std Err of Y Est	686413.4
R Squared	0.804860
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	589125.9
Std Err of Coef.	123719.9

AC = CON + YEAR +YEAR^2

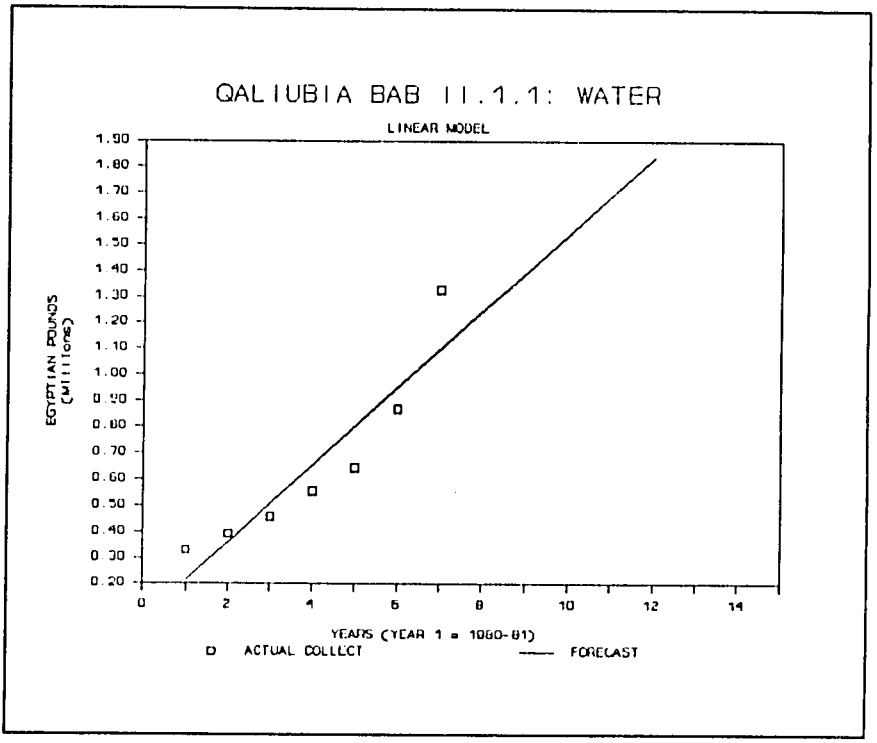
Regression Output:

Constant	3675825.
Std Err of Y Est	759025.9
R Squared	0.809132
No. of Observations	7
Degrees of Freedom	4
X Coefficient(s)	786994.2 -24721.2
Std Err of Coef.	677882.4 82916.51

STUDENT'S T TEST

Regression

	R squared	Increase	Student's	df	Signif?
Linear	0.804860	0.534880	4.541535	5	@ 99%
Quadratic	0.809132	0.004251	0.295566	4	NO



BAB II

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
ITEM 1 Variety 1 :					
ITEM 1 : Munic. Rum by Local					
80-81	330,198	1	1	211,792	376,121
81-82	394,233	2	4	359,342	359,342
82-83	455,520	3	9	506,891	408,293
83-84	555,380	4	16	554,441	522,977
84-85	644,755	5	25	631,990	705,392
85-86	869,772	6	36	949,540	949,540
86-87	1,328,021	7	49	1,197,089	1,261,413
87-88		8	64	1,044,639	1,639,089
88-89		9	81	1,532,188	2,032,372
89-90		10	100	1,679,738	2,591,446
90-91		11	121	1,827,287	3,166,253
91-92		12	144	1,974,837	3,806,730

AC = CON + YEAR

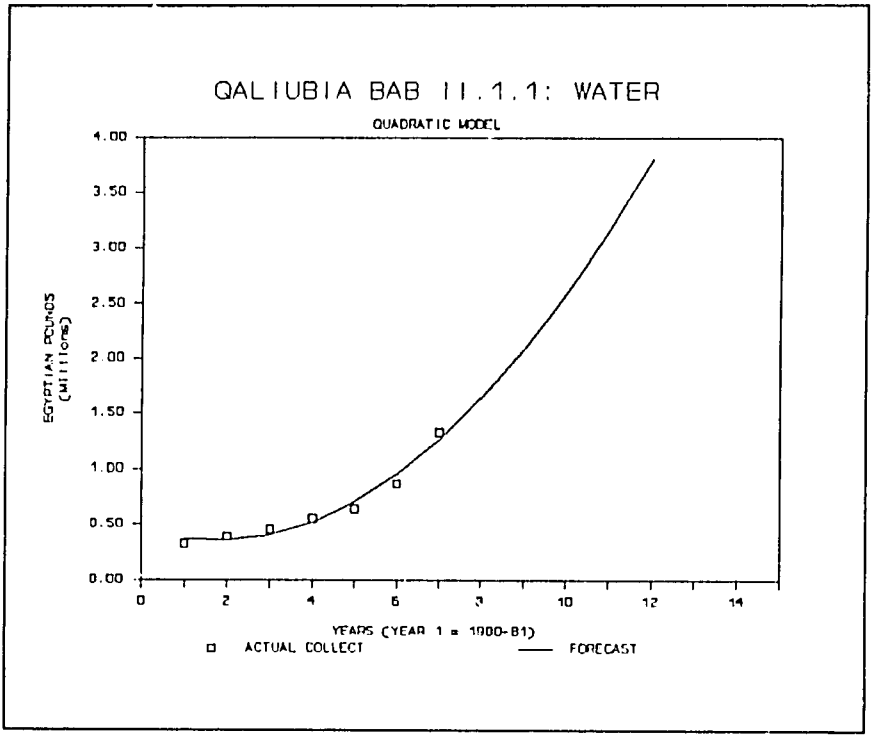
Regression Output:	
Constant	64,242
Std Err of Y Est	149,657
R Squared	0.84
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	147,850
Std Err of Coef.	23,271

AC = CON + YEAR + YEAR^2

Regression Output:		
Constant		455,[illegible]
Std Err of Y Est		72,[illegible]
R Squared		0.[illegible]
No. of Observations		
Degrees of Freedom		
X Coefficient(s)	(125,[illegible])	32,[illegible]
Std Err of Coef.	84,[illegible]	7,[illegible]

Student's T Test Analysis

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.84491	0.844907	5.2191	5	@ 99+%
Quadratic	0.97067	0.125761	4.1413	4	@ 98%



PAR II

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
ITEM 1 Variety 1 :					
80-81	330,199	1	1	211,792	276,121
81-82	394,239	2	4	359,342	359,342
82-83	455,520	3	9	506,891	409,293
83-84	555,380	4	16	654,441	522,877
84-85	644,760	5	25	801,990	703,392
85-86	663,772	6	36	949,540	949,540
86-87	1,359,021	7	49	1,097,093	1,261,419
87-88		8	64	1,244,639	1,633,029
88-89		9	81	1,392,189	2,092,372
89-90		10	100	1,539,738	2,531,446
90-91		11	121	1,687,287	3,166,253
91-92		12	144	1,834,837	3,806,790

AC = CON +YEAR

Regression Output:	
Constant	64.242
Std Err of Y Est	149,597
R Squared	0.94
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	147,550
Std Err of Coef.	28,071

AC = CON + YEAR + YEAR^2

Regression Output:		
Constant		458,633
Std Err of Y Est		72,736
R Squared		0.97
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(115,378)	32,866
Std Err of Coef.	64,360	7,335

Student's T Test Analysis

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.84491	0.844907	5.2191	5	0.394%
Quadratic	0.97067	0.125761	4.1413	4	0.98%

ITEM 1 Variety 2 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	744	1	1	636	534
81-82	1,287	2	4	1,159	1,159
82-83	1,393	3	9	1,682	1,744
83-84	1,693	4	16	2,205	2,267
84-85	2,248	5	25	2,728	2,790
85-86	5,621	6	36	3,251	3,251
86-87	2,451	7	49	3,774	3,672
87-88		8	64	4,297	4,052
88-89		9	81	4,820	4,390
89-90		10	100	5,343	4,666
90-91		11	121	5,866	4,945
91-92		12	144	6,389	5,161

AC = CON +YEAR

Regression Output:

Constant	113	
Std Err of Y Est	1,263	
R Squared	0.490	
No. of Observations	7	
Degrees of Freedom	5	
X Coefficient(s)	523	
Std Err of Coef.	239	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		(132)
Std Err of Y Est		1,409
R Squared		0.492
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	687	(20)
Std Err of Coef.	1,258	154

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.49000	0.490002	2.1916	5	@ 90%
Quadratic	0.49226	0.002253	0.1332	4	NO

ITEM 1 Variety 3 :

80-81	30,102	1	1	36,816	23,324
81-82	33,866	2	4	39,962	39,962
82-83	45,912	3	9	43,105	51,202
83-84	54,405	4	16	46,249	57,044
84-85	56,240	5	25	49,393	57,489
85-86	73,825	6	36	52,536	52,536
86-87	29,373	7	49	55,680	42,186
87-88		8	64	58,823	26,437
88-89		9	81	61,967	5,231
89-90		10	100	65,110	(21,252)
90-91		11	121	68,254	(53,193)
91-92		12	144	71,397	(90,532)

Regression Output:

Constant	33,675	
Std Err of Y Est	16,423	
R Squared	0.170	
No. of Observations	7	
Degrees of Freedom	5	
X Coefficient(s)	3,144	
Std Err of Coef.	3,104	

Regression Output:

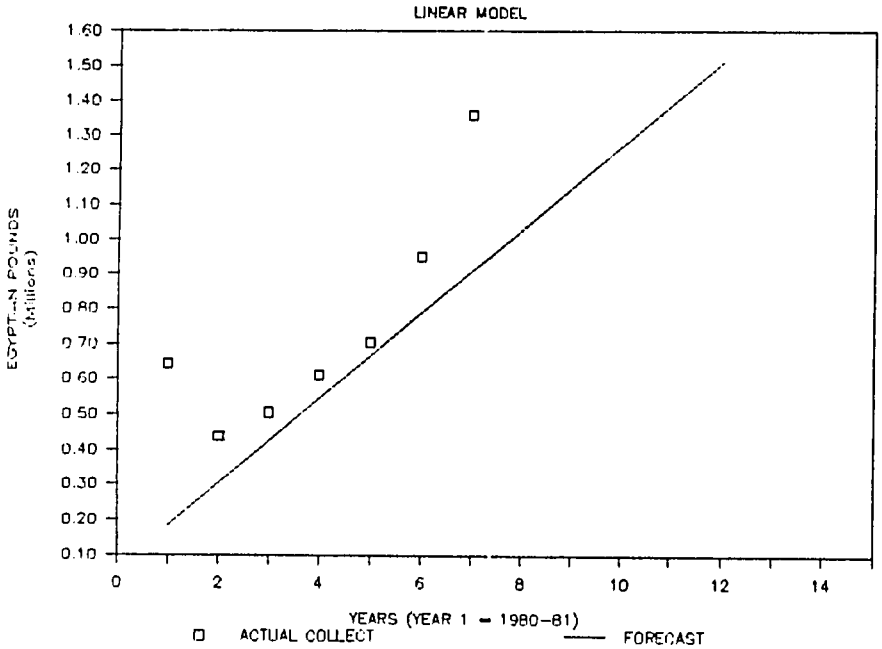
Constant		1,289
Std Err of Y Est		13,571
R Squared		1
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	24,734	(2,699)
Std Err of Coef.	12,121	1,481

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.17024	0.170244	1.0129	5	@ 60%
Quadratic	0.54669	0.376445	1.8226	4	@ 80%

QALIUBIA BAB II ITEM 1

LINEAR MODEL



TOTAL ITEM 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	641.439	1	1	154.891	251.366
81-82	436.875	2	4	305.519	137.730
82-83	505.725	3	9	456.153	117.839
83-84	611.472	4	16	546.796	191.634
84-85	703.248	5	25	657.435	359.176
85-86	949.213	6	36	768.073	620.344
86-87	1,360.045	7	49	878.712	975.133
87-88		8	64	1,023.350	1,427.741
88-89		9	81	1,145.990	1,966.363
89-90		10	100	1,275.627	2,601.994
90-91		11	121	1,391.266	3,331.436
91-92		12	144	1,511.324	4,154.774

AC = CON +YEAR

Regression Output:

Constant	261.457
Std Err of Y Est	197.462
R Squared	0.69
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	122.303
Std Err of Coef.	37.317

AC = CON + YEAR + YEAR^2

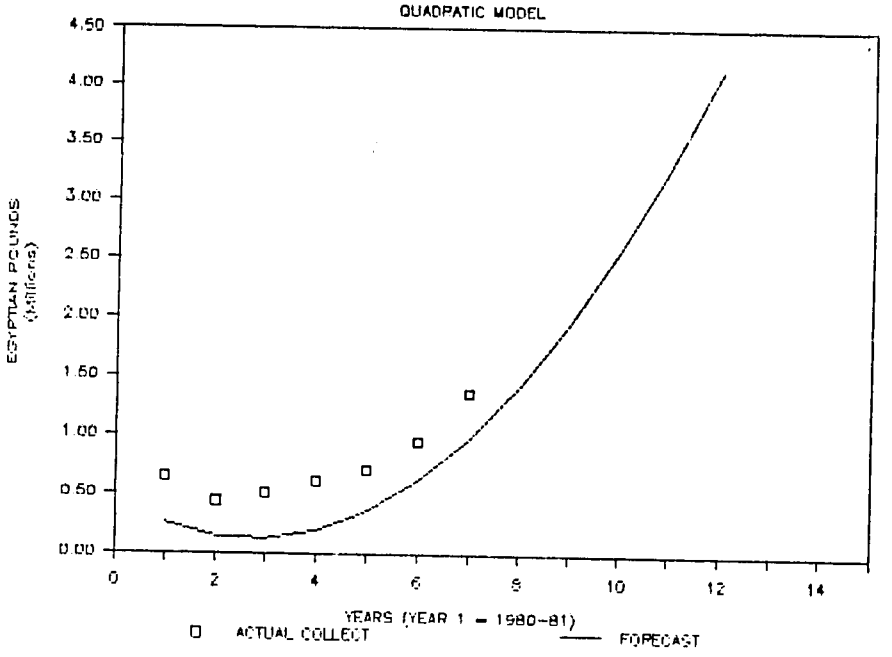
Regression Output:

Constant		823.577
Std Err of Y Est		51.563
R Squared		0.99
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(254.138)	46.843
Std Err of Coef.	46.351	5.625

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.67640	0.676399	3.2328	5	@ 25%
Quadratic	0.99235	0.315949	8.3262	4	@ 99+%

QALIUBIA BAB II ITEM 1



TOTAL ITEM 1 :

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	641,489	1	1	184,881	251,369
81-82	426,875	2	4	305,519	137,790
82-83	505,725	3	9	426,155	117,699
83-84	611,478	4	16	546,796	191,694
84-85	703,248	5	25	667,435	359,176
85-86	943,218	6	36	788,073	620,344
86-87	1,350,045	7	49	908,712	975,199
87-88		8	64	1,029,350	1,4[illegible]3,741
88-89		9	81	1,149,989	1,955,969
89-90		10	100	1,270,627	2,601,884
90-91		11	121	1,391,266	3,331,496
91-92		12	144	1,511,904	4,154,774

AC = CON +YEAR

Regression Output:

Constant		261,457
Std Err of Y Est		197,462
R Squared		0.68
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	120,639	
Std Err of Coef.	37,317	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		823,577
Std Err of Y Est		51,563
R Squared		0.99
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(254,108)	46,843
Std Err of Coef.	46,051	5,626

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.67640	0.676399	3.2328	5	@ 95%
Quadratic	0.98235	0.305949	8.3262	4	@ 994%

NO DATA FOR ITEM 2 OR FOR
ITEM 3 VARIETIES 2,7,9-11,15-19

ITEM 3 : Commercial Shops
ITEM 3 Variety 1 :Commercial Shops

						Regression Output:		Regression Output:		
80-81	122.888	1	1	94.147	117.791	Constant	23.638	Constant	80.384	
81-82	156.097	2	4	154.656	164.656	Std Err of Y Est	20.152	Std Err of Y Est	6.167	
82-83	220.216	3	9	235.165	220.378	R Squared	0.936	R Squared	0.999	
83-84	292.031	4	16	305.674	288.758	No. of Observations	7	No. of Observations	7	
84-85	359.893	5	25	376.183	361.996	Degrees of Freedom	5	Degrees of Freedom	4	
85-86*est.	450.345	6	36	446.692	446.692					
86-87	538.247	7	49	517.201	540.845	X Coefficient(s)	70.509	X Coefficient(s)	32.678	4.729
87-88		8	64	587.709	644.456	Std Err of Coef.	3.808	Std Err of Coef.	5.508	673
88-89		9	81	658.218	757.524					
89-90		10	100	728.727	880.051					
90-91		11	121	799.236	1,012.035					
91-92		12	144	869.745	1,153.477					

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.36562	0.965623	18.5141	5	@ 99+%
Quadratic	0.99892	0.013300	7.0278	4	@ 99+%

ITEM 3 Variety 3 : Industrial Shops

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC	Regression Output: AC = CON +YEAR		Regression Output: AC = CON + YEAR + YEAR^2		
80-81	58.387	1	1	13.874	43.831	Constant	(20.922)	Constant	62.974	
81-82	58.986	2	4	48.670	48.670	Std Err of Y Est	43.951	Std Err of Y Est	37.258	
82-83	1.075	3	9	83.467	62.492	R Squared	0.778	R Squared	0.873	
83-84	125.441	4	16	118.263	90.297	No. of Observations	7	No. of Observations	7	
84-85	148.562	5	25	153.059	132.085	Degrees of Freedom	5	Degrees of Freedom	4	
85-86* ext	186.025	6	36	187.855	187.855					
86-87	249.253	7	49	222.651	257.608	X Coefficient(s)	34.796	X Coefficient(s)	(21.135)	6.391
87-88		8	64	257.448	341.344	Std Err of Coef.	8.306	Std Err of Coef.	33.275	4.065
88-89		9	81	292.244	433.062					
89-90		10	100	327.040	550.764					
90-91		11	121	361.836	676.443					
91-92		12	144	396.632	815.114					

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.77827	0.778271	4.1893	5	@ 99%
Quadratic	0.87253	0.094257	1.7198	4	@ 80%

GOVERNORATE : Qaliubia

Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
ITEM 3 Variety 4 : Cars and Bikes					
80-81	2,743	1	1	968	1,570
81-82	2,616	2	4	1,122	2,527
82-83	3,959	3	9	1,276	3,655
83-84	2,276	4	16	1,430	4,954
84-85	4,187	5	25	1,584	6,424
85-86* ext	5,239	6	36	1,738	8,065
86-87	5,664	7	49	1,892	9,875
87-88		8	64	2,046	11,861
88-89		9	81	2,200	14,016
89-90		10	100	2,353	16,341
90-91		11	121	2,507	18,836
91-92		12	144	2,661	21,506

AC = CON + YEAR

Regression Output:

Constant		1,776
Std Err of Y Est		814
R Squared		0.666
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	506	
Std Err of Coef.	154	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		2,931
Std Err of Y Est		784
R Squared		0.767
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(300)	101
Std Err of Coef.	700	86

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.66565	0.665652	3.3039	5	@ 95%
Quadratic	0.76705	0.061196	1.1806	4	@ 60%

Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
ITEM 3 Var. 5 : Comm. and Indust.					
80-81	1,630	1	1	14,698	6,110
81-82	2,078	2	4	15,426	15,426
82-83* dis	66,566	3	9	16,154	21,307
83-84	4,078	4	16	16,881	23,752
84-85	10,909	5	25	17,609	22,762
85-86	13,650	6	36	18,337	18,337
86-87	19,260	7	49	19,064	10,476
87-88		8	64	19,792	(820)
88-89		9	81	20,520	(15,551)
89-90		10	100	21,247	(33,718)
90-91		11	121	21,975	(55,320)
91-92		12	144	22,703	(80,357)

Regression Output:

Constant		13,971
Std Err of Y Est		24,965
R Squared		0.005
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	726	
Std Err of Coef.	4,722	

Regression Output:

Constant		(6,641)
Std Err of Y Est		26,802
R Squared		0.064
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	14,469	(1,718)
Std Err of Coef.	23,937	2,924

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.00473	0.004728	0.1541	5	NO
Quadratic	0.06376	0.079028	0.5874	4	NO

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC	AC = CON +YEAR		AC = CON + YEAR + YEAR^2	

ITEM 3 Variety 6 : Slaughtering

						Regression Output:		Regression Output:	
80-81	47,750	1	1	44,565	46,170	Constant	38,943	Constant	42,734
81-82	48,309	2	4	50,187	50,187	Std Err of Y Est	4,367	Std Err of Y Est	5,355
82-83	54,752	3	9	55,809	54,247	R Squared	0.878	R Squared	0.886
83-84	56,986	4	16	61,432	60,148	No. of Observations	7	No. of Observations	7
84-85	65,072	5	25	67,054	66,091	Degrees of Freedom	5	Degrees of Freedom	4
85-86	81,427	6	36	72,676	72,676				
86-87	75,115	7	49	78,298	79,903	X Coefficient(s) 5,622		X Coefficient(s) 3,055	321
87-88		8	64	83,920	87,771	Std Err of Coef. 339		Std Err of Coef. 4,783	584
88-89		9	81	89,542	96,262				
89-90		10	100	95,164	105,434				
90-91		11	121	100,787	115,229				
91-92		12	144	106,409	125,865				

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.87767	0.877671	5.3835	5	@ 99+%
Quadratic	0.88625	0.008580	0.5433	4	NO

ITEM 3 Var. 8 : Sidewalks

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	LINEAR FORECAST	QUADRATIC FORECAST	AC= CON+YEAR		AC = CON +YEAR+YEAR^2	

Student's T Test Analysis

						Regression Output:		Regression Output:	
80-81	85,455	1	1	101,053	87,981	Constant	76,877	Constant	45,503
81-82	139,114	2	4	125,230	125,230	Std Err of Y Est	13,238	Std Err of Y Est	17,362
82-83	142,571	3	9	149,406	157,250	R Squared	0.858	R Squared	0.930
83-84	182,413	4	16	173,583	184,041	No. of Observations	7	No. of Observations	7
84-85	197,603	5	25	197,759	205,603	Degrees of Freedom	5	Degrees of Freedom	4
85-86	247,267	6	36	221,936	221,936				
86-87	220,657	7	49	246,112	233,040	X Coefficient(s) 24,177		X Coefficient(s) 45,092	(2,614)
87-88		8	64	270,289	238,916	Std Err of Coef. 3,636		Std Err of Coef. 15,353	1,349
88-89		9	81	294,465	239,562				
89-90		10	100	318,642	234,980				
90-91		11	121	342,819	225,168				
91-92		12	144	366,995	210,123				

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.858342	0.858421	6.6500	5	@ 99+%
Quadratic	0.92994	0.031519	1.3415	4	@ 60%

GOVERNORATE : Qalinbia

EAB II

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC	AC = CON +YEAR		AC = CON + YEAR + YEAR^2		
ITEM 3 Variety 12 : Birth Certificate						Regression Output:		Regression Output:		
80-81	47	1	1	597		(320) Constant		276 Constant		(1,925)
81-82	274	2	4	917		917 Std Err of Y Est		1,964 Std Err of Y Est		2,029
82-83	534	3	9	1,238		1,768 R Squared		0.130 R Squared		0.257
83-84	5,591	4	16	1,558		2,092 No. of Observations		7 No. of Observations		7
84-85	981	5	25	1,879		2,429 Degrees of Freedom		5 Degrees of Freedom		4
85-86* extr	1,228	6	36	2,199		2,199				
86-87	2,253	7	49	2,520		1,602 X Coefficient(s)	320	X Coefficient(s)	1,788	(183)
87-88		8	64	2,840		839 Std Err of Coef.	371	Std Err of Coef.	1,612	221
88-89		9	81	3,160		(682)				
89-90		10	100	3,481		(2,389)				
90-91		11	121	3,801		(4,454)				
91-92		12	144	4,122		(6,885)				

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.12967	0.129674	0.5631	5	NO
Quadratic	0.25717	0.127455	0.8286	4	NO

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC	AC = CON +YEAR		AC = CON + YEAR + YEAR^2		
ITEM 3 Variety 13 : Fishing/Gun						Regression Output:		Regression Output:		
80-81	471	1	1	2,008		1,268 Constant		1,940 Constant		163
81-82	3,744	2	4	2,076		2,076 Std Err of Y Est		1,436 Std Err of Y Est		1,517
82-83	2,740	3	9	2,144		2,583 R Squared		0.012 R Squared		0.177
83-84	366	4	16	2,213		2,805 No. of Observations		7 No. of Observations		7
84-85	2,907	5	25	2,281		2,725 Degrees of Freedom		5 Degrees of Freedom		4
85-86* extr	3,633	6	36	2,349		2,349				
86-87	1,122	7	49	2,417		1,676 X Coefficient(s)	68	X Coefficient(s)	1,253	(148)
87-88		8	64	2,485		706 Std Err of Coef.	281	Std Err of Coef.	1,354	165

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.01163	0.011628	0.2425	5	NO
Quadratic	0.17653	0.164902	0.8950	4	NO

GOVERNORATE : Qaliubia

EAB II

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
ITEM 3 Variety 14 : Quarries/Mines					
80-81	5,407	1	1	7,136	6,435
81-82	10,619	2	4	8,538	8,538
82-83	11,093	3	9	9,980	10,437
83-84	9,065	4	16	11,372	11,381
84-85	13,144	5	25	12,764	13,221
85-86* extr	16,447	6	36	14,156	14,156
86-87	13,329	7	49	15,548	14,786
87-88		8	64	16,940	15,142
88-89		9	81	18,332	15,134
89-90		10	100	19,724	14,851
90-91		11	121	21,116	14,253
91-92		12	144	22,507	13,371

AC = CON + YEAR

Regression Output:

Constant		5,804
Std Err of Y Est		2,109
R Squared		0.709
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	1,392	2,610
Std Err of Coef.	399	2,011

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		3,377
Std Err of Y Est		2,252
R Squared		0.735
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(152)	
Std Err of Coef.	246	

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.70927	0.709269	3.4326	5	@ 93%
Quadratic	0.73473	0.025465	0.6197	4	80

ITEM 3 Variety 20 : Others

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2
80-81	266,069	1	1
81-82	142,136	2	4
82-83	257,135	3	9
83-84	236,352	4	16
84-85	287,955	5	25
85-86	360,327	6	36
86-87	541,303	7	49
87-88		8	64
88-89		9	81
89-90		10	100
90-91		11	121
91-92		12	144

Regression Output:

Constant		114,080
Std Err of Y Est		82,768
R Squared		0.635
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	46,171	(32,509)
Std Err of Coef.	15,842	42,387

Regression Output:

Constant		322,101
Std Err of Y Est		47,461
R Squared		0.904
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	17,335	
Std Err of Coef.	5,178	

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.63538	0.635384	2.9518	5	@ 95%
Quadratic	0.90409	0.268702	3.3475	4	@ 95%

GOVERNORATE : Qalioubia

RAS II

TOTAL ITEM 3

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC	AC = CON +YEAR		AC = CON + YEAR + YEAR^2		Regression		R squared	Increase	Student's t	df	Signif.
80-81	550,865	1	1	448,738	541,128	Constant	263,373	Constant	485,710							
81-82	564,633	2	4	633,502	633,502	Std Err of Y Est	36,555	Std Err of Y Est	66,358	Linear		0.95350	0.953501	10.1256	5	@ 99+%
82-83	867,117	3	9	818,267	762,832	R Squared	0.954	R Squared	0.982	Quadratic		0.98211	0.028610	2.5233	4	@ 90%
83-84	915,111	4	16	1,003,031	929,119	No. of Observations	7	No. of Observations	7							
84-85	1,091,312	5	25	1,187,795	1,132,351	Degrees of Freedom	5	Degrees of Freedom	4							
85-86	1,365,466	6	36	1,372,560	1,372,560											
86-87	1,566,713	7	49	1,557,324	1,649,715	X Coefficient(s)	184,764	X Coefficient(s)	36,340	18,478						
87-88		8	64	1,742,089	1,963,826	Std Err of Coef.	18,247	Std Err of Coef.	59,800	7,306						
88-89		9	81	1,926,853	2,314,893											
89-90		10	100	2,111,618	2,702,916											
90-91		11	121	2,296,382	3,127,836											
91-92		12	144	2,481,147	3,589,832											

ITEM 4 : Production Projects

NO DATA

ITEM 5 : Revenues of Quarries

						Regression Output:		Regression Output:		Regression		R squared	Increase	Student's t	df	Signif.
80-81	39,268	1	1	44,541	35,657	Constant	41,683	Constant	20,362							
81-82	36,363	2	4	47,399	47,399	Std Err of Y Est	13,070	Std Err of Y Est	12,134	Linear		0.21126	0.211258	1.1572	5	@ 60%
82-83	61,552	3	9	50,258	55,568	R Squared	0.211	R Squared	0.456	Quadratic		0.45615	0.244296	1.3421	4	@ 60%
83-84	72,279	4	16	53,116	60,223	No. of Observations	7	No. of Observations	7							
84-85	45,552	5	25	55,974	61,304	Degrees of Freedom	5	Degrees of Freedom	4							
85-86	63,829	6	36	58,832	58,832											
86-87	52,368	7	49	61,691	52,807	X Coefficient(s)	2,858	X Coefficient(s)	17,072	(1,777)						
87-88		8	64	64,549	43,228	Std Err of Coef.	2,470	Std Err of Coef.	10,836	1,324						
88-89		9	81	67,407	30,095											
89-90		10	100	70,266	13,409											
90-91		11	121	73,124	(6,830)											
91-92		12	144	75,982	(30,624)											

ITEM 6 : Miscellaneous Revenues

ITEM 6 Variety 1 : Markets

80-81	47,471	1	1	(505,561)	(108,097)	Constant		(1,026,242)	Constant		(72,329)	
81-82	58,880	2	4	15,121	15,121	Std Err of Y Est		623,941	Std Err of Y Est		594,317	
82-83	67,683	3	9	535,803	297,324	R Squared		0.796	R Squared		0.852	
83-84	66,417	4	16	1,056,484	768,513	No. of Observations		7	No. of Observations		7	
84-85	1,861,716	5	25	1,577,166	1,838,688	Degrees of Freedom		5	Degrees of Freedom		4	
85-86	2,634,442	6	36	2,097,848	2,897,848							
86-87	2,558,781	7	49	2,618,529	3,015,993	X Coefficient(s)	520,682		X Coefficient(s)	(115,261)	79,493	
87-88		8	64	3,139,211	4,033,125	Std Err of Coef.	117,914		Std Err of Coef.	531,318	64,911	
88-89		9	81	3,659,893	5,329,241							
89-90		10	100	4,180,574	6,724,344							
90-91		11	121	4,701,256	8,278,432							
91-92		12	144	5,221,938	9,991,506							

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.79591	0.795911	4.4158	5	@ 99%
Quadratic	0.85157	0.055654	1.2246	4	@ 60%

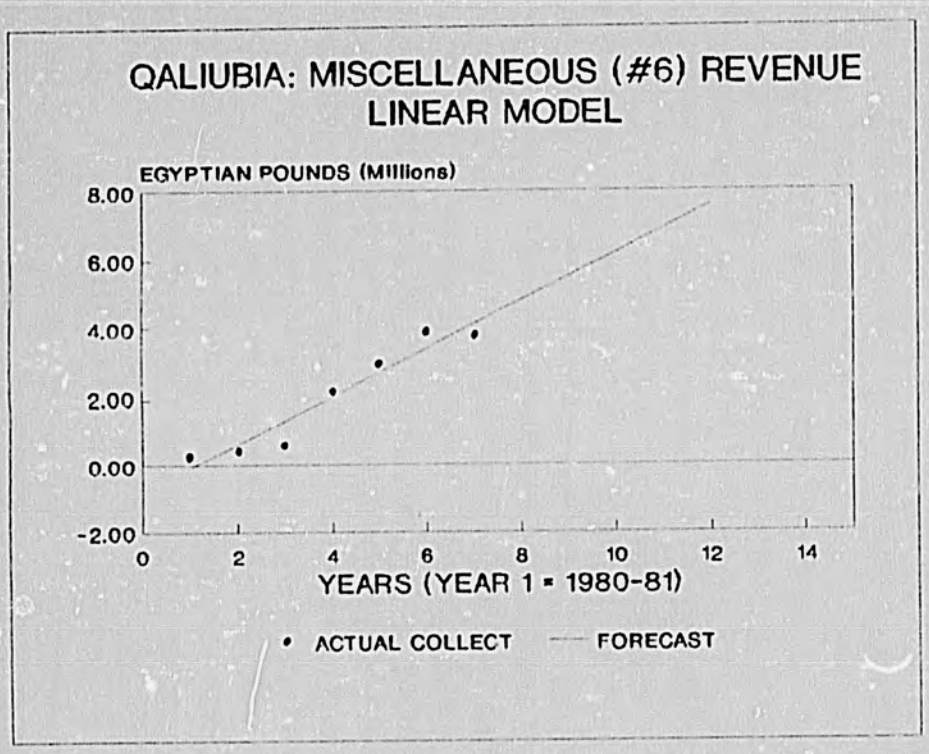
ITEM 6 Variety 2 : Buildings Fire INSUFFICIENT DATA

Item 6 Variety 3: Others

82-83	598,611	1	1	1,347,284	1,008,691	Constant		1,646,450	Constant		461,374	
83-84	2,104,599	2	4	1,048,115	1,217,414	Std Err of Y Est		795,383	Std Err of Y Est		865,056	
84-85	886,468	3	9	748,952	1,087,545	R Squared		0.320	R Squared		0.464	
85-86	0	4	16	449,736	619,082	No. of Observations		5	No. of Observations		5	
86-87	155,081	5	25	150,820	(187,973)	Degrees of Freedom		3	Degrees of Freedom		2	
87-88		6	36	(148,546)	(1,333,621)							
88-89		7	49	(447,712)	(2,817,863)	X Coefficient(s)	(299,166)		X Coefficient(s)	716,613	(169,296)	
89-90		8	64	(746,878)	(4,640,697)	Std Err of Coef.	251,522		Std Err of Coef.	1,413,831	231,136	
90-91		9	81	(1,046,044)	(6,302,125)							
91-92		10	100	(1,345,210)	(9,302,145)							

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.32046	0.320456	1.1894	3	@ 80%
Quadratic	0.46413	0.143671	0.7323	2	NO



TOTAL ITEM 6

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	331,233	1	1	(56,116)	(3,618)
81-82	450,434	2	4	628,750	623,750
82-83	599,611	3	9	1,323,615	1,336,116
83-84	2,171,015	4	16	2,018,481	1,988,482
84-85	2,953,574	5	25	2,713,347	2,675,347
85-86	3,877,452	6	36	3,408,212	3,403,212
86-87	3,745,346	7	49	4,103,078	4,125,576
87-88		8	64	4,797,943	4,847,940
88-89		9	81	5,492,809	5,755,303
89-90		10	100	6,187,675	6,687,666
90-91		11	121	6,882,540	7,445,027
91-92		12	144	7,577,406	8,027,389

AC = CON +YEAR

Regression Output:

Constant		(760,982)
Std Err of Y Est		478,195
R Squared		0.92
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	694,866	
Std Err of Coef.	90,370	

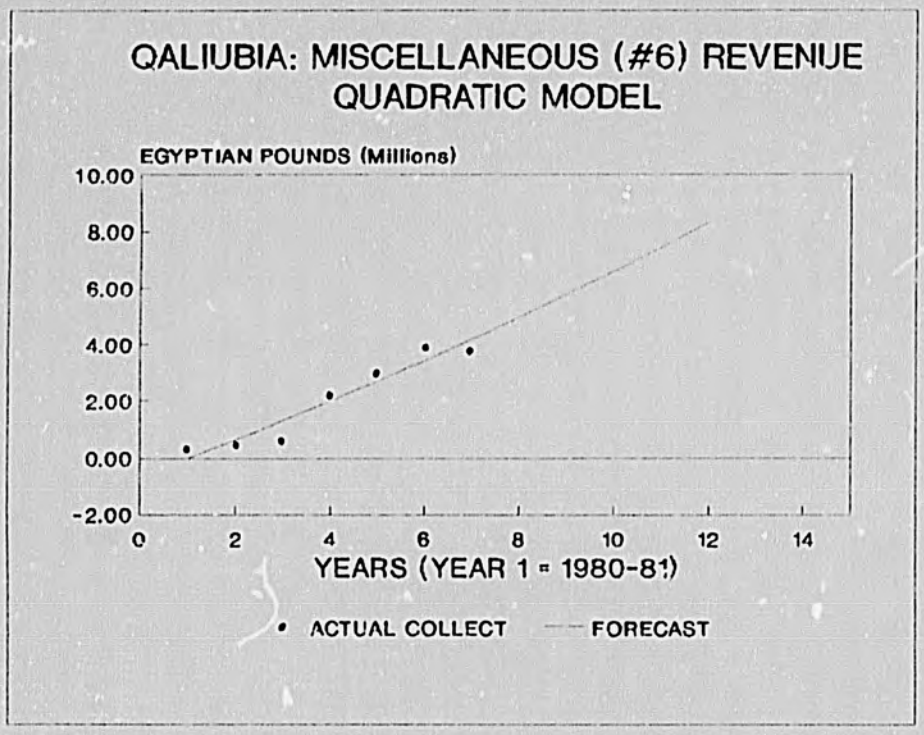
AC = CON +YEAR+YEAR^2

Regression Output:

Constant		(610,985)
Std Err of Y Est		531,561
R Squared		0.92
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	594,666	12,500
Std Err of Coef.	474,725	57,996

Student's T Test Analysis

Regression	R squared	Increase	Student's	df	Signif.
Linear	0.92202	0.922024	7.6891	5	@ 99+%
Quadratic	0.92292	0.000895	0.2155	4	NO



TOTAL ITEM 6

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	331,233	1	1	(66,116)	(3,618)
81-82	450,434	2	4	628,750	628,750
82-83	598,611	3	9	1,323,615	1,286,116
83-84	2,171,016	4	16	2,018,481	1,958,482
84-85	2,953,674	5	25	2,713,347	2,675,847
85-86	3,877,452	6	36	3,408,212	3,408,212
86-87	3,746,946	7	49	4,103,078	4,165,576
87-88		8	64	4,797,943	4,947,940
88-89		9	81	5,492,809	5,755,303
89-90		10	100	6,187,675	6,587,666
90-91		11	121	6,882,540	7,445,027
91-92		12	144	7,577,406	8,327,389

AC = CON +YEAR

Regression Output:

Constant		(760,982)
Std Err of Y Est		478,195
R Squared		0.92
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	694,866	
Std Err of Coef.	90,370	

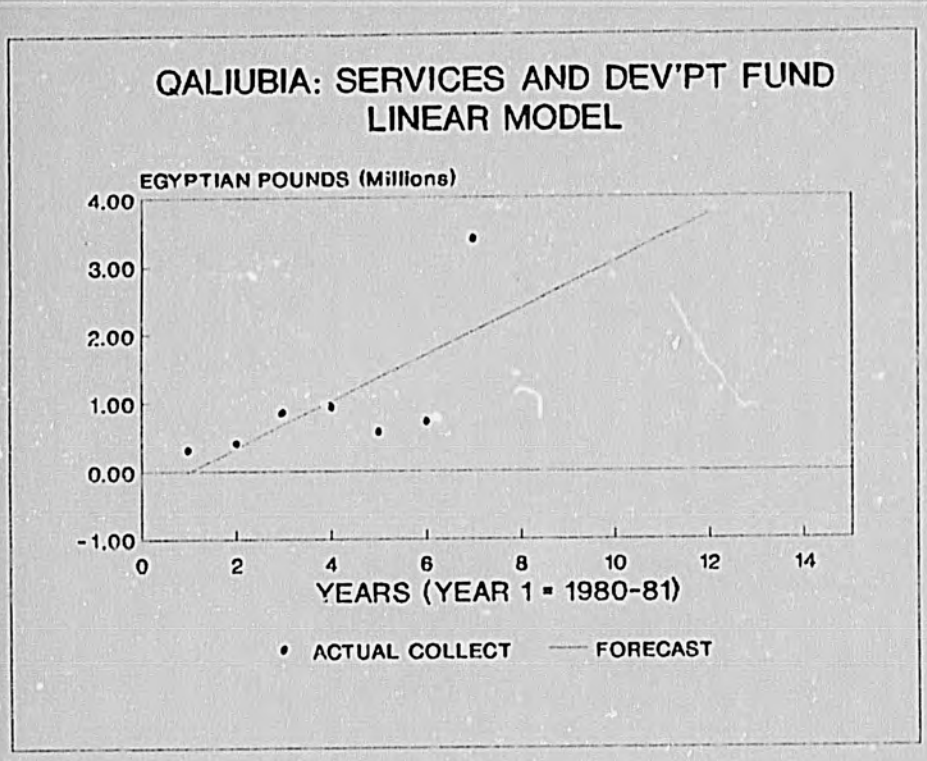
AC = CON +YEAR+YEAR^2

Regression Output:

Constant		(610,985)
Std Err of Y Est		531,561
R Squared		0.92
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	594,866	12,500
Std Err of Coef.	474,735	57,998

Student's T Test Analysis

Regression	R squared	Increase	Student's	df	Signif.
Linear	0.92202	0.922024	7.6691	5	@ 99+%
Quadratic	0.92292	0.000895	0.2155	4	NO



TEM 7 : Other Local Revenues
TEM 7 Variety 1 : Services & Dev

ISCAL EAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
0-81	303,318	1	1	(2,224)	607,679
1-82	387,144	2	4	338,108	338,108
2-83	852,081	3	9	678,441	312,498
3-84	948,751	4	16	1,018,773	530,850
4-85	577,028	5	25	1,359,106	993,154
5-86	700,666	6	36	1,699,438	1,699,438
6-87	3,362,425	7	49	2,039,771	2,643,675
7-88		8	64	2,380,104	3,843,873
8-89		9	81	2,720,436	5,282,032
9-90		10	100	3,060,769	6,964,153
0-91		11	121	3,401,101	8,890,236
1-92		12	144	3,741,434	11,060,280

AC = CON +YEAR
Regression Output:

Constant		(342,557)
Std Err of Y Est		835,395
R Squared		0.482
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	340,333	
Std Err of Coef.	157,875	

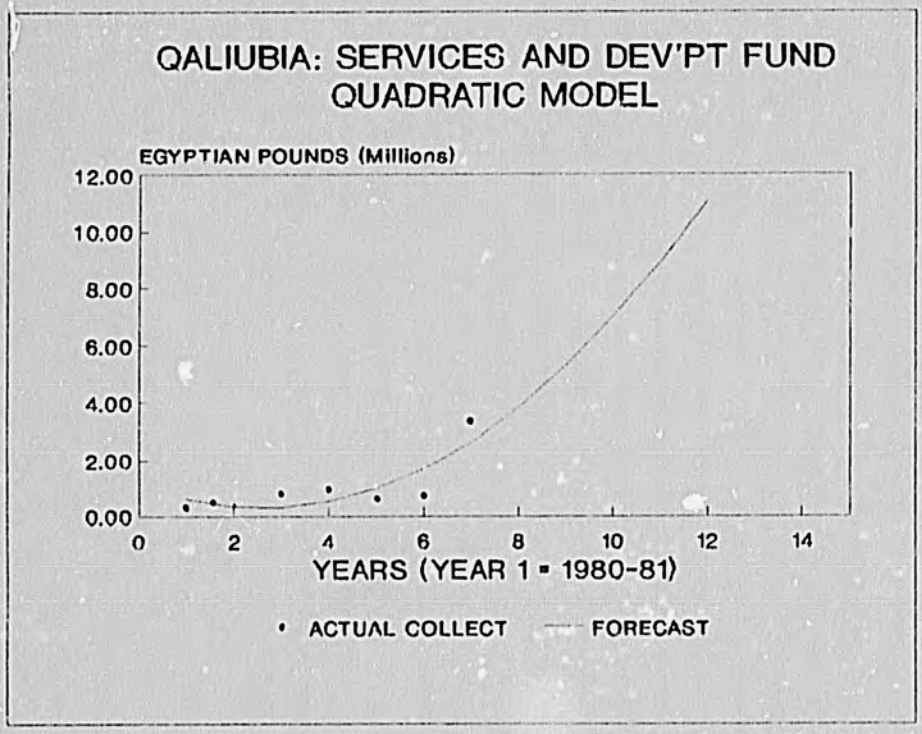
AC = CON + YEAR + YEAR^2
Regression Output:

Constant		1,121,212
Std Err of Y Est		748,258
R Squared		0.667
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(635,514)	121,981
Std Err of Coef.	668,265	81,642

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.48171	0.481709	2.1557	5	@ 90%
Quadratic	0.66735	0.185644	1.4941	4	@ 60%

95



ITEM 7 : Other Local Revenues
ITEM 7 Variety 1 : Services & Dev

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	809.019	1	1	(2.024)	677.673
81-82	857.244	2	4	333.108	335.339
82-83	952.031	3	9	678.441	312.495
83-84	949.751	4	16	1,018.773	500.150
84-85	577.223	5	25	1,359.106	333.124
85-86	700.696	6	36	1,699.439	1,699.439
86-87	3,082.425	7	49	2,033.771	2,949.875
87-88		8	64	2,380.104	3,243.573
88-89		9	81	2,723.436	5,120.100
89-90		10	100	3,060.769	6,934.250
90-91		11	121	3,401.101	8,820.256
91-92		12	144	3,741.434	11,250.230

AC = CON +YEAR

Regression Output:

Constant		342.5571
Std Err of Y Est		305.335
R Squared		0.482
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	340.333	
Std Err of Coef.	157.875	

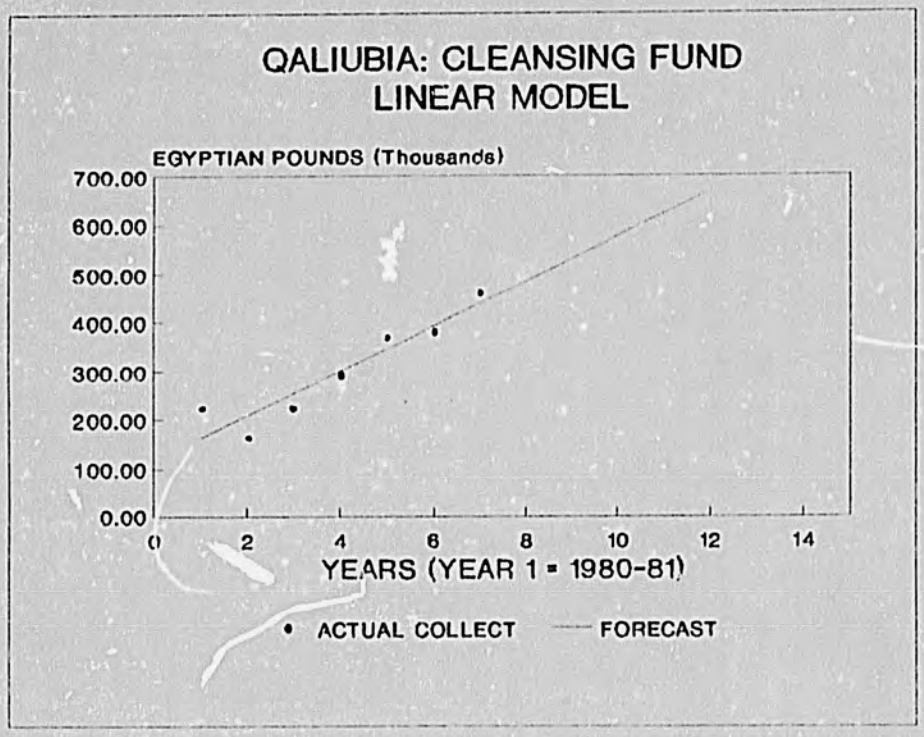
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		1,121.212
Std Err of Y Est		749.259
R Squared		0.667
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(635.514)	121.381
Std Err of Coef.	563.235	81.642

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.48171	0.481709	2.1557	5	@ 90%
Quadratic	0.66735	0.185644	1.4341	4	@ 60%



ITEM 7 Variety 2 : Cleansing Fund

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	221.538	1	1	163.531	139.035
81-82	162.458	2	4	209.518	209.515
82-83	224.445	3	9	255.506	289.593
83-84	295.163	4	16	301.494	250.510
84-85	366.210	5	25	347.481	331.359
85-86	382.735	6	36	393.469	393.459
86-87	455.656	7	49	439.456	455.311
87-88		8	64	485.444	547.434
88-89		9	81	531.432	640.020
89-90		10	100	577.419	742.537
90-91		11	121	623.407	855.196
91-92		12	144	669.394	973.247

AC = CON +YEAR

Regression Output:

Constant	117.543
Std Err of Y Est	38.317
R Squared	0.890
No. of Observations	7
Degrees of Freedom	5
X Coefficient(s)	45.988
Std Err of Coef.	7.241

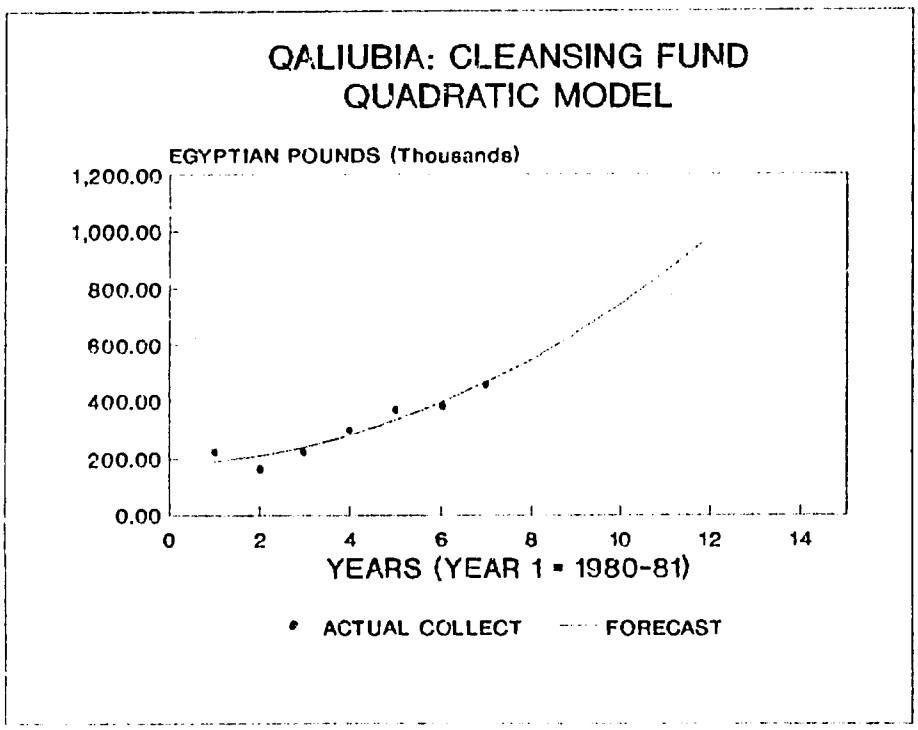
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		179.594
Std Err of Y Est		35.690
R Squared		.92
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	4.821	5.171
Std Err of Coef.	31.375	3.894

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.88970	0.889702	6.3507	5	@ 99%
Quadratic	0.92345	0.033745	1.3279	4	



ITEM 7 Variety 2 : Cleansing Fund

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	221,938	1	1	163,531	189,385
81-82	162,499	2	4	209,518	209,516
82-83	224,445	3	9	255,506	239,935
83-84	235,163	4	16	301,494	250,619
84-85	366,310	5	25	347,491	331,969
85-86	352,295	6	36	393,469	393,469
86-87	456,656	7	49	439,456	465,311
87-88		8	64	485,444	547,494
88-89		9	81	531,432	640,020
89-90		10	100	577,419	742,887
90-91		11	121	623,407	856,096
91-92		12	144	669,394	979,647

AC = CON +YEAR
Regression Output:

Constant		117,543
Std Err of Y Est		38,317
R Squared		0.890
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	45,988	
Std Err of Coef.	7,241	

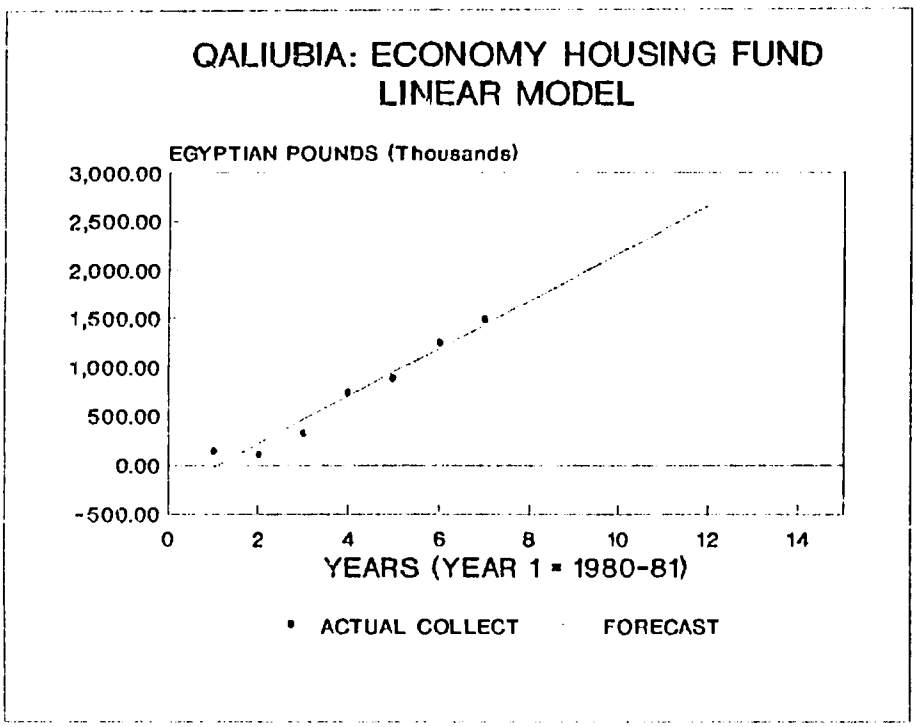
AC = CON + YEAR + YEAR^2
Regression Output:

Constant		179,594
Std Err of Y Est		35,690
R Squared		.92
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	4,621	5,171
Std Err of Coef.	31,875	3,894

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.88970	0.889702	6.3507	5	@ 99+%
Quadratic	0.92345	0.033745	1.3279	4	

98



ITEM 7 Variety 3 : Economy Housing

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	147,311	1	1	(27,571)	65,490
81-82	111,435	2	4	216,815	216,815
82-83	330,763	3	9	461,202	405,365
83-84	722,942	4	16	705,589	631,132
84-85	892,823	5	25	949,975	894,138
85-86	1,255,963	6	36	1,194,361	1,194,361
86-87	1,477,880	7	49	1,438,748	1,531,809
87-88		8	64	1,683,134	1,806,481
88-89		9	81	1,927,521	2,318,378
89-90		10	100	2,171,907	2,767,499
90-91		11	121	2,416,294	3,253,845
91-92		12	144	2,660,680	3,777,415

AC = CON +YEAR

Regression Output:

Constant		(271,958)
Std Err of Y Est		116,273
R Squared		.96
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	244,387	
Std Err of Coef.	21,973	

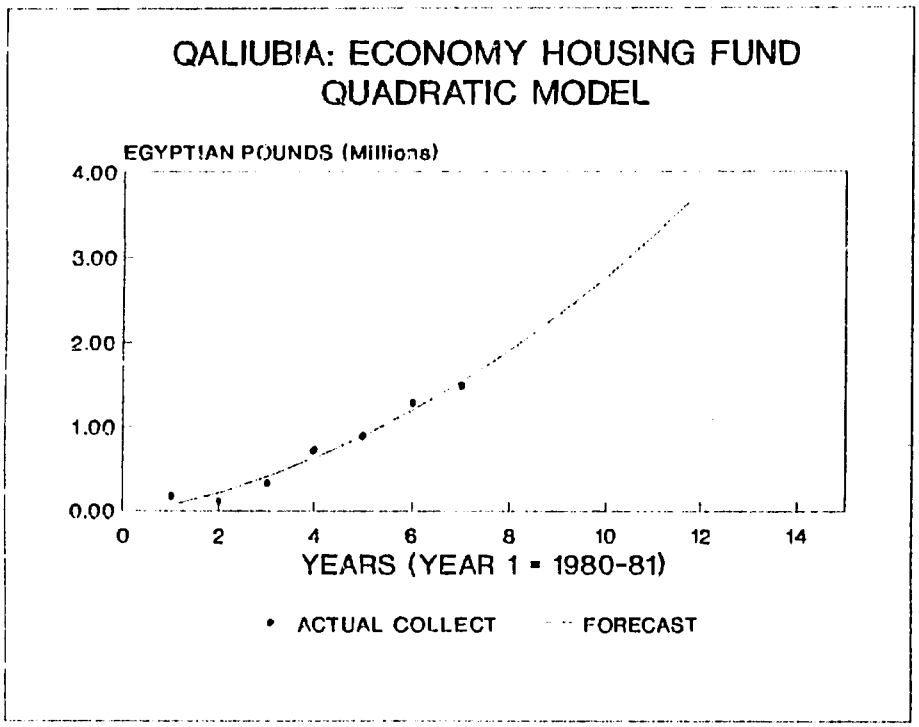
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		(48,611)
Std Err of Y Est		38,104
R Squared		.97
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	95,489	18,612
Std Err of Coef.	87,616	10,704

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.96115	0.961149	11.1219	5	@ 99+%
Quadratic	0.97787	0.016725	1.7388	4	@ 80%



ITEM 7 Variety 3 : Economy Housing

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	147,311	1	1	(27,571)	65,490
81-82	111,435	2	4	216,815	215,815
82-83	330,763	3	9	461,202	405,365
83-84	722,342	4	16	705,588	631,133
84-85	632,823	5	25	943,975	834,133
85-86	1,255,953	6	36	1,194,361	1,194,361
86-87	1,477,830	7	49	1,438,748	1,531,869
87-88		8	64	1,683,134	1,895,481
88-89		9	81	1,927,521	2,313,378
89-90		10	100	2,171,907	2,767,4[illegible]
90-91		11	121	2,415,294	3,253,[illegible]
91-92		12	144	2,650,680	3,777,415

AC = CON +YEAR

Regression Output:

Constant		(271,958)
Std Err of Y Est		116,273
R Squared		.96
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	244,387	
Std Err of Coef.	21,973	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		(48,611)
Std Err of Y Est		98,104
R Squared		.97
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	95,459	18,612
Std Err of Coef.	87,515	10,704

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.96115	0.961149	11.1219	5	@ 99+%
Quadratic	0.97787	0.016725	1.7328	4	@ 86%

TOTAL ITEM 7

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
80-81	573,306	1	1	(57,766)	641,612
81-82	561,067	2	4	709,541	700,541
82-83	1,407,289	3	9	1,458,849	1,039,221
83-84	1,967,656	4	16	2,217,156	1,657,653
84-85	1,836,161	5	25	2,975,463	2,555,536
85-86	3,877,452	6	36	3,733,771	3,733,771
86-87	5,236,361	7	49	4,492,078	5,191,457
87-88		8	64	5,250,386	6,928,894
88-89		9	81	6,008,693	8,946,033
89-90		10	100	6,767,000	11,243,024
90-91		11	121	7,525,308	13,819,715
91-92		12	144	8,283,615	16,676,159

AC = CON +YEAR

Regression Output:

Constant		(816,074)
Std Err of Y Est		699,858
R Squared		0.868
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	758,307	
Std Err of Coef.	132,261	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		862,435
Std Err of Y Est		448,756
R Squared		0.957
No. of Observations		7
Degrees of Freedom		4
X Coefficient(s)	(360,699)	139,876
Std Err of Coef.	400,781	48,963

Regression	R squared	Increase	Student's	df	Signif.
Linear	0.86798	0.867977	5.7334	5	@ 99%
Quadratic	0.95858	0.088596	2.8567	4	@ 90%

Total Local Revenue

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	3,440,234	1	1	3,215,797	3,776,788
83-84	5,737,740	2	4	5,399,283	5,118,738
84-85	7,183,835	3	9	7,582,769	7,021,779
85-86	8,650,666	4	16	9,766,255	9,485,760
86-87	12,901,261	5	25	11,949,741	12,510,732
87-88		6	36	14,133,227	15,096,694
88-89		7	49	16,316,713	20,243,647
89-90		8	64	18,500,199	24,351,591
90-91		9	81	20,683,685	30,220,525
91-92		10	100	22,867,171	36,050,450

AC = CON +YEAR

Regression Output:

Constant		1,032,311
Std Err of Y Est		908,110
R Squared		0.951
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	2,183,486	
Std Err of Coef.	287,169	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		2,995,778
Std Err of Y Est		828,403
R Squared		0.973
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	500,514	280,495
Std Err of Coef.	1,353,984	221,400

Regression	R squared	Increase	Student's	df	Signif.
Linear	0.95067	0.950668	7.6035	3	@ 99%
Quadratic	0.97263	0.021964	1.2669	2	@ 60%

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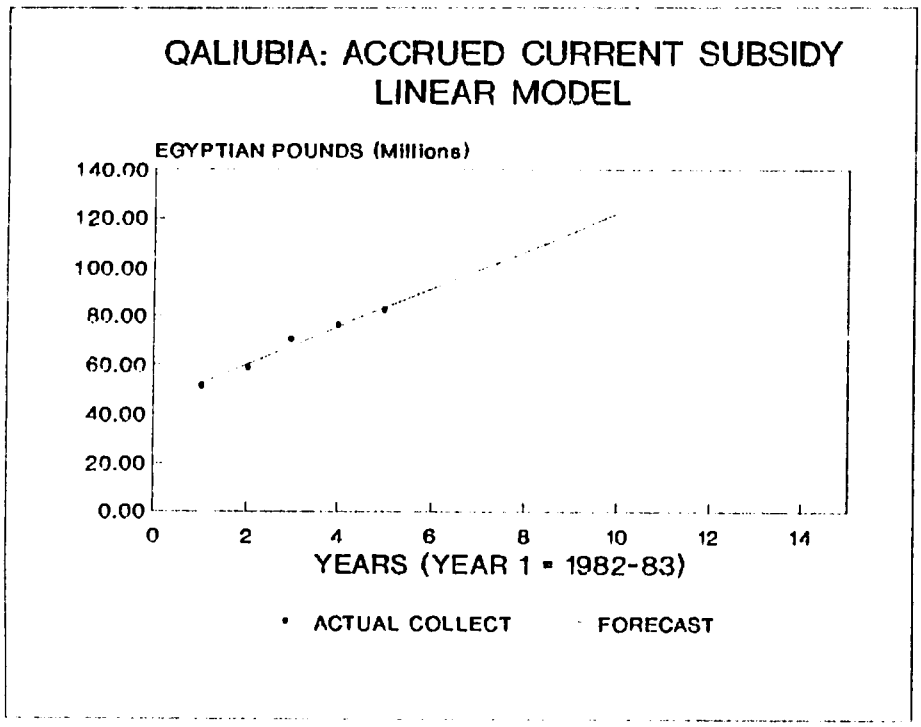


Accrued Curr. Sen. Sub.

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	51,489,260	1	1	52,255,104	50,939,223
83-84	59,093,520	2	4	60,242,493	60,720,423
84-85	70,559,431	3	9	67,312,862	69,175,742
85-86	76,051,255	4	16	75,337,240	76,275,131
86-87	81,970,131	5	25	83,374,619	82,213,739
87-88		6	36	91,151,998	86,405,415
88-89		7	49	98,929,377	89,453,211
89-90		8	64	106,706,756	91,114,125
90-91		9	81	114,484,134	91,434,150
91-92		10	100	122,261,513	90,233,313

AC = CON +YEAR

Constant	44,487,725
Std Err of Y Est	1,347,377
R Squared	0.992
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	7,777,379
Std Err of Coef.	615,815

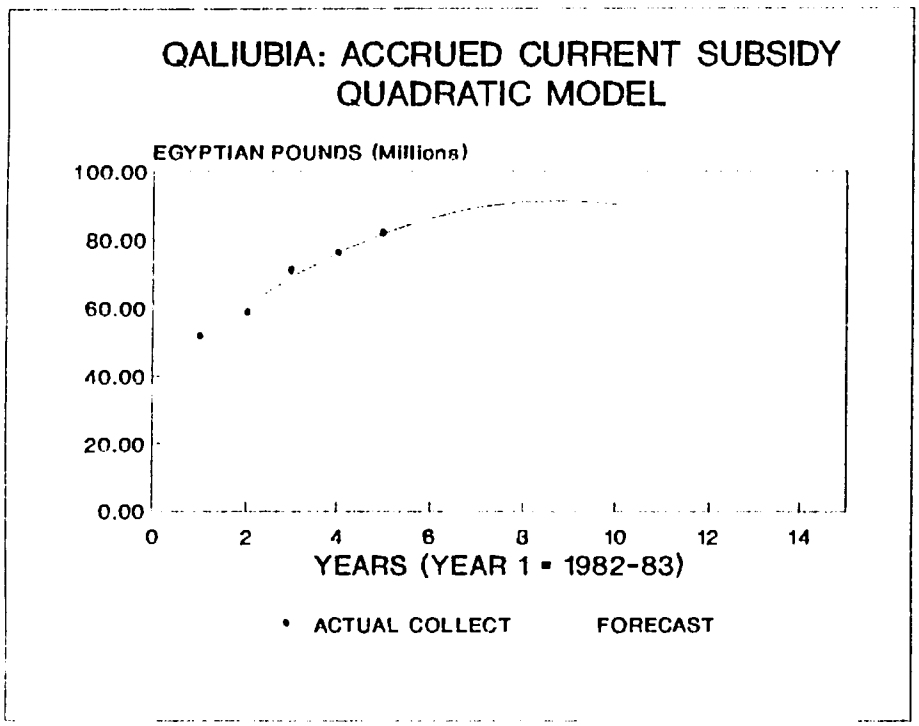
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		39,742,142
Std Err of Y Est		1,572,092
R Squared		0.992
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	11,845,021	(677,940)
Std Err of Coef.	2,569,359	420,135

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.98154	0.981553	12.6294	3	@ 99+%
Quadratic	0.99198	0.010441	1.6135	2	@ 60%



Accrued Corr. Cen. Sub.

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	51,489,060	1	1	52,255,104	50,999,223
83-84	59,099,520	2	4	60,042,493	60,720,423
84-85	70,559,431	3	9	67,812,882	69,175,742
85-86	76,051,166	4	16	75,597,240	76,275,161
86-87	81,900,131	5	25	83,374,619	82,019,739
87-88		6	36	91,151,998	86,406,415
88-89		7	49	98,929,377	89,438,211
89-90		8	64	106,706,756	91,114,126
90-91		9	81	114,484,134	91,434,160
91-92		10	100	122,261,513	90,398,313

AC = CON +YEAR

Constant	44,487,725
Std Err of Y Est	1,947,377
R Squared	0.982
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	7,777,379
Std Err of Coef.	615,815

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		39,742,142
Std Err of Y Est		1,572,992
R Squared		0.992
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	11,845,021	(677,340)
Std Err of Coef.	2,563,360	420,135

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.98154	0.981539	12.6294	3	@ 99+%
Quadratic	0.99198	0.010441	1.5136	2	@ 60%

TOTAL BAR II

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	54,929,354	1	1	55,460,901	54,666,011
83-84	64,837,260	2	4	65,441,766	65,339,211
84-85	77,743,316	3	9	75,402,631	76,197,521
85-86	84,701,832	4	16	85,363,496	85,760,941
86-87	94,801,392	5	25	95,324,360	94,529,470
87-88		6	36	105,285,225	102,503,109
88-89		7	49	115,246,090	109,681,858
89-90		8	64	125,206,955	116,065,717
90-91		9	81	135,167,820	121,654,635
91-92		10	100	145,128,684	126,448,763

AC = CON +YEAR

Regression Output:

Constant	45,520,036
Std Err of Y Est	1,512,143
R Squared	0.993
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	9,960,865
Std Err of Coef.	478,182

AC = CON + YEAR + YEAR^2

Regression Output:

Constant	42,737,920	
Std Err of Y Est	1,524,509	
R Squared	0.995	
No. of Observations	5	
Degrees of Freedom	2	
X Coefficient(s)	12,345,536	(337,445)
Std Err of Coef.	2,491,735	407,442

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.99313	0.993134	20.8307	3	@ 99+%
Quadratic	0.99535	0.002214	0.9755	2	NO

Total Current Revenues (BAR I & II)

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	59,826,509	1	1	60,847,383	59,437,059
83-84	70,852,162	2	4	71,532,454	72,237,616
84-85	85,447,511	3	9	82,217,526	83,627,850
85-86	92,566,999	4	16	92,902,598	93,607,760
86-87	102,394,449	5	25	103,587,669	102,177,346
87-88		6	36	114,272,741	109,336,608
88-89		7	49	124,957,313	115,085,546
89-90		8	64	135,642,885	119,424,160
90-91		9	81	146,327,956	122,352,451
91-92		10	100	157,013,028	123,870,417

AC = CON +YEAR

Regression Output:

Constant	50,162,311
Std Err of Y Est	2,119,291
R Squared	0.988
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	10,685,072
Std Err of Coef.	670,179

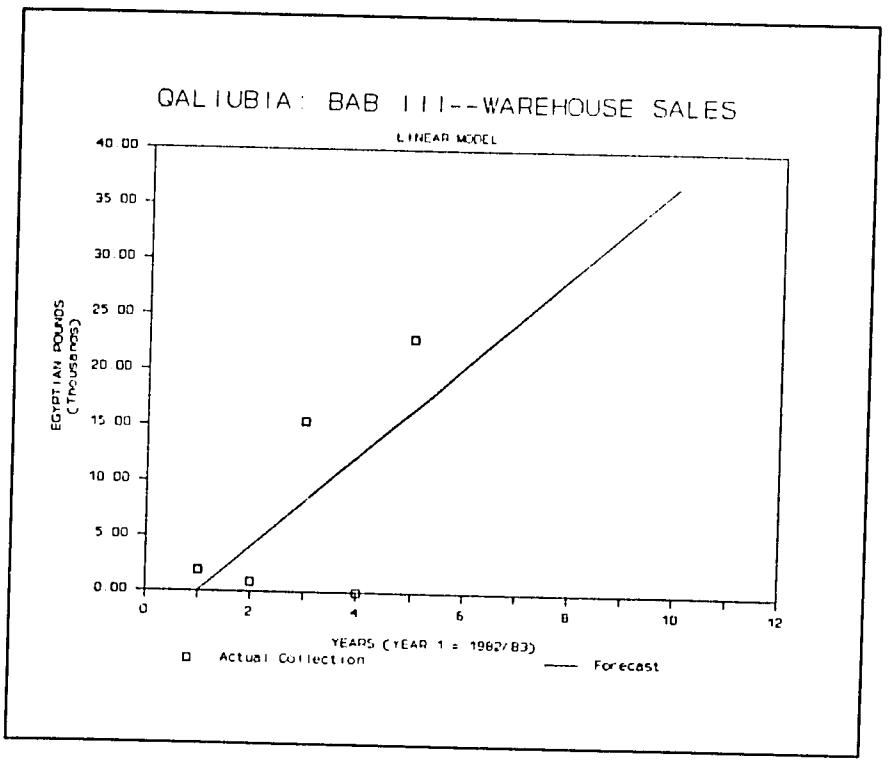
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	45,226,177	
Std Err of Y Est	1,804,527	
R Squared	0.994	
No. of Observations	5	
Degrees of Freedom	2	
X Coefficient(s)	14,916,043	(705,162)
Std Err of Coef.	2,949,411	482,250

Regression

	R squared	Increase	Student's	df	Signif.
Linear	0.96834	0.988336	15.9436	3	@ 99+%
Quadratic	0.99436	0.006026	1.4621	2	@ 60%



Fiscal Year	Actual Collection Warehouse Sales	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	1,937	1	1	20	2,591
83-84	900	2	4	4,122	2,836
84-85	15,366	3	9	8,224	5,653
85-86	0	4	16	12,327	11,041
86-87	22,899	5	25	16,429	19,001
		6	36	20,532	29,532
		7	49	24,634	42,634
		8	64	28,736	58,306
		9	81	32,839	76,553
		10	100	36,941	97,370

AC = CON + YEAR

Regression Output:

Constant		(4,063)
Std Err of Y Est		9,394
R Squared		0.394
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	4,102	
Std Err of Coef.	2,935	

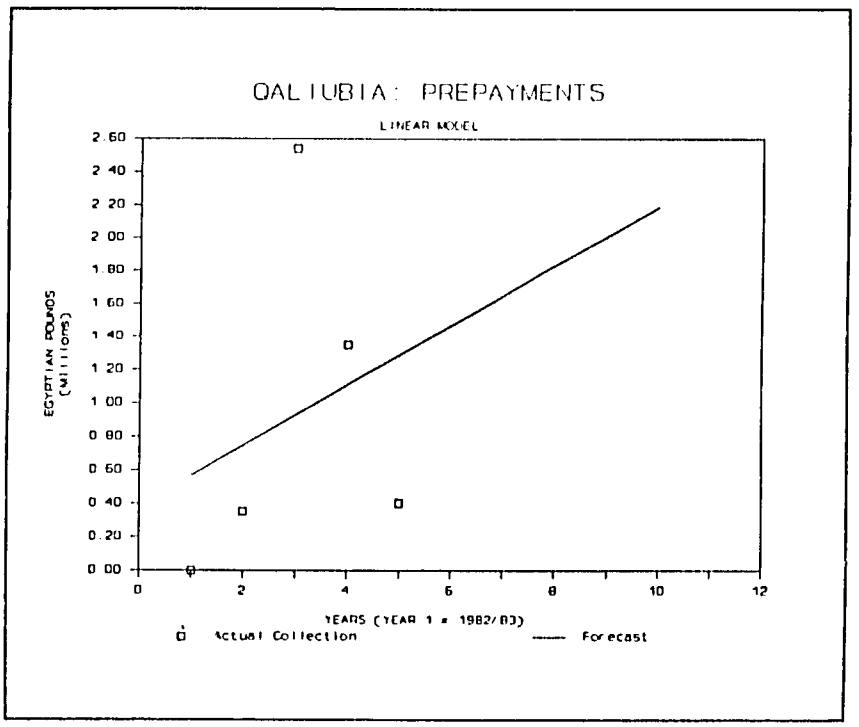
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		4,917
Std Err of Y Est		10,863
R Squared		0.446
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(3,612)	1,286
Std Err of Coef.	17,755	2,903

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.39372	0.39372	1.39579	3	0.602
Quadratic	0.44786	0.05414	0.44265	2	NC



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	0	1	1	568,808	(285,242)
83-84	353,419	2	4	749,224	1,176,248
84-85	2,540,725	3	9	929,642	1,783,650
85-86	1,350,534	4	16	1,110,060	1,537,084
86-87	403,532	5	25	1,290,478	436,429
		6	36	1,470,896	(1,516,274)
		7	49	1,651,314	(4,327,025)
		8	64	1,831,732	(7,993,825)
		9	81	2,012,149	(12,5CE,674)
		10	100	2,192,567	(17,877,571)

AC = CON + YEAR

Regression Output:

Constant	388,388
Std Err of Y Est	1,143,138
R Squared	0.077
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	180,418
Std Err of Coef.	361,492

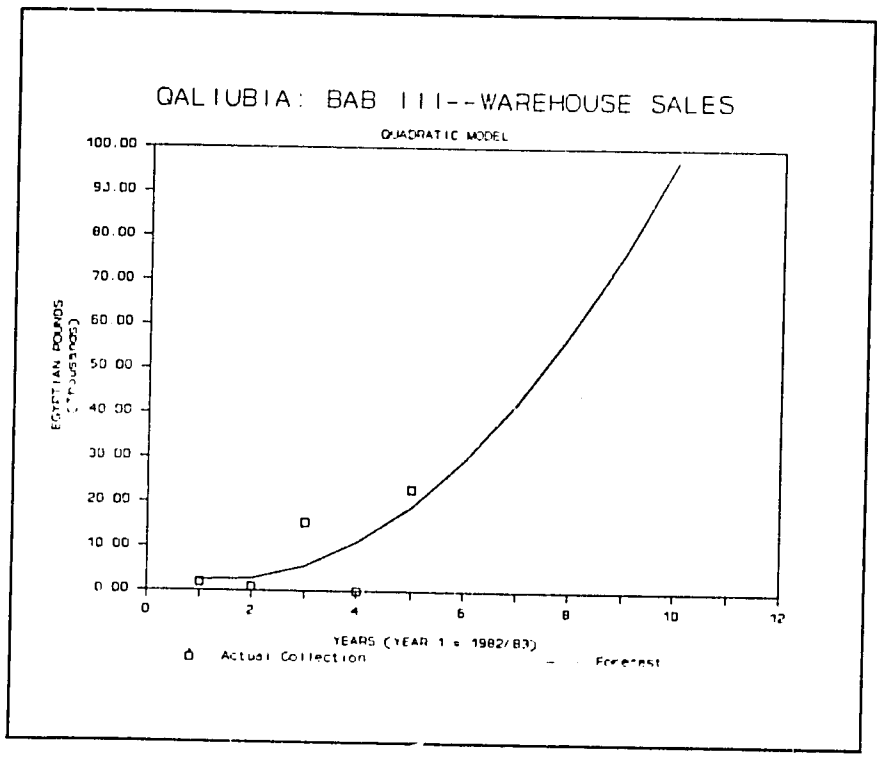
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		(2,600,781)
Std Err of Y Est		826,860
R Squared		C.676
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	2,742,563	(427,024)
Std Err of Coef.	1,351,462	220,988

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.07667	C.07667	0.49909	3	NO
Quadratic	0.67794	0.60128	1.93234	2	P 001



Fiscal Year	Actual Collection Warehouse Sales	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	1,837	1	1	20	2,591
83-84	800	2	4	4,122	2,835
84-85	15,386	3	9	8,224	5,653
85-86	0	4	16	12,327	11,041
86-87	22,899	5	25	16,429	19,001
		6	36	20,532	29,532
		7	49	24,634	42,634
		8	64	28,736	58,308
		9	81	32,839	76,553
		10	100	36,941	97,370

AC = CON + YEAR

Regression Output:

Constant		(4,083)
Std Err of Y Est		9,294
R Squared		0.394
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	4,102	
Std Err of Coef.	2,939	

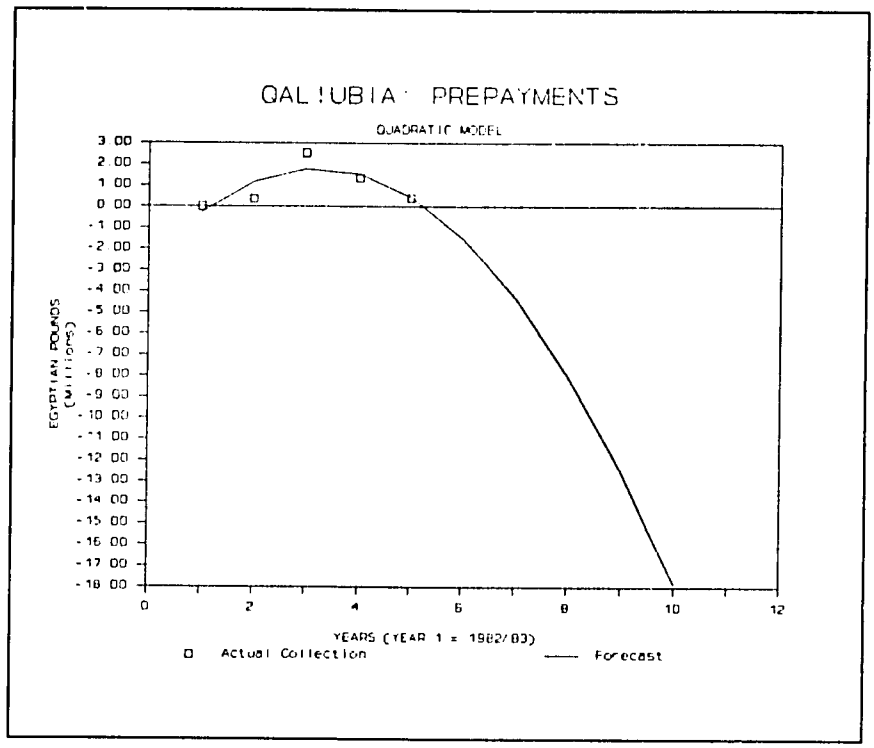
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		4,917
Std Err of Y Est		10,863
R Squared		0.448
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(3,612)	1,286
Std Err of Coef.	17,755	2,903

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.39372	0.39372	1.39579	3	0.601
Quadratic	0.44786	0.05414	0.44285	2	NO



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	0	1	1	566,806	(285,242)
83-84	353,415	2	4	749,224	1,176,249
84-85	2,540,725	3	9	929,642	1,783,650
85-86	1,350,534	4	16	1,110,060	1,537,064
86-87	403,532	5	25	1,290,478	436,429
		6	36	1,470,896	(1,515,274)
		7	49	1,651,314	(4,327,025)
		8	64	1,831,732	(7,989,825)
		9	81	2,012,149	(12,506,674)
		10	100	2,192,567	(17,877,571)

AC = CON + YEAR

Regression Output:

Constant	366,386
Std Err of Y Est	1,143,138
R Squared	0.077
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	180,418
Std Err of Coef.	361,492

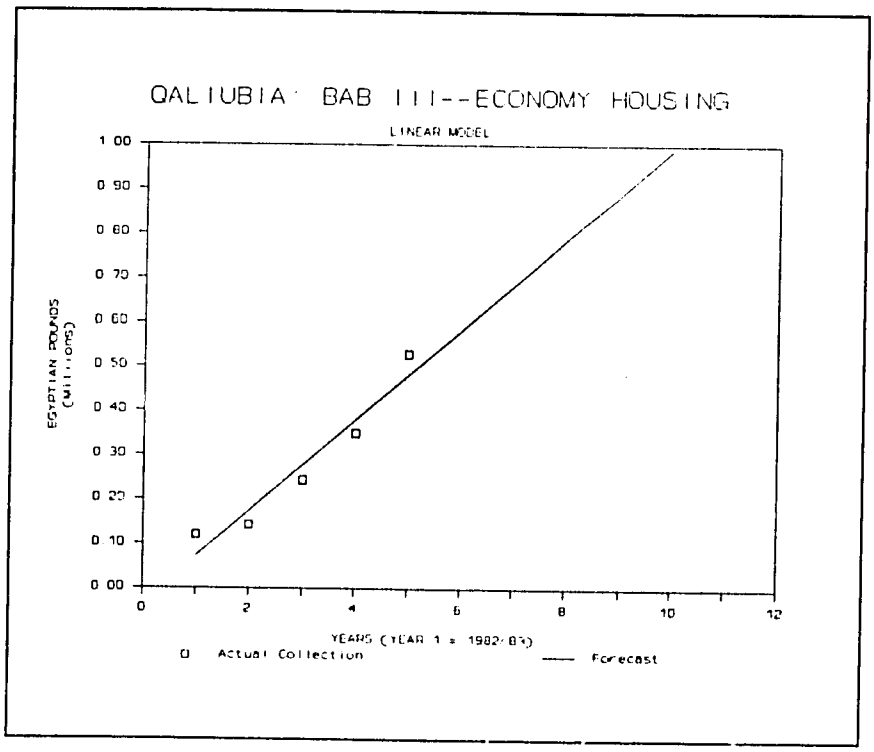
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		(2,600,78
Std Err of Y Est		826,860
R Squared		0.676
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	2,742,563	(427,024
Std Err of Coef.	1,351,462	220,986

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.07667	0.07667	0.49505	3	NO
Quadratic	0.67764	0.60128	1.93234	2	0.80



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	119,316	1	1	71,663	117,060
83-84	142,834	2	4	173,989	151,281
84-85	242,822	3	9	276,315	230,859
85-86	348,462	4	16	378,641	355,933
86-87	526,122	5	25	480,967	526,304
		6	36	583,293	742,251
		7	49	685,619	1,003,535
		8	64	787,945	1,310,236
		9	81	890,271	1,662,353
		10	100	992,597	2,059,867

AC = CON + YEAR

Regression Output:

Constant		(30,663)
Std Err of Y Est		49,968
R Squared		0.933
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	102,326	
Std Err of Coef.	15,808	

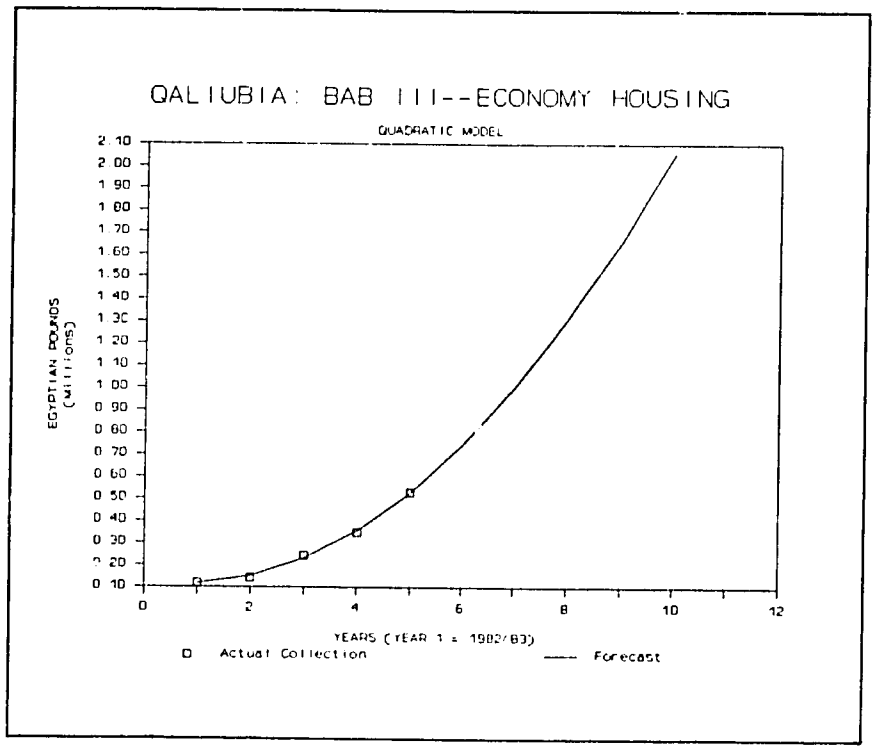
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		128,295
Std Err of Y Est		11,770
R Squared		0.998
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(33,924)	22,708
Std Err of Coef.	19,237	3,146

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.93319	0.93319	6.47323	3	@ 99%
Quadratic	0.99753	0.06434	7.21905	2	@ 98%



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	119,316	1	1	71,663	117,000
83-84	142,834	2	4	173,989	151,281
84-85	242,822	3	9	276,315	230,899
85-86	348,482	4	16	378,641	355,933
86-87	528,122	5	25	480,967	526,384
		6	36	583,293	742,251
		7	49	685,619	1,003,535
		8	64	787,945	1,310,236
		9	81	890,271	1,662,353
		10	100	992,597	2,059,887

AC = CON + YEAR

Regression Output:

Constant		(30,663)
Std Err of Y Est		49,988
R Squared		0.933
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	102,326	
Std Err of Coef.	15,808	

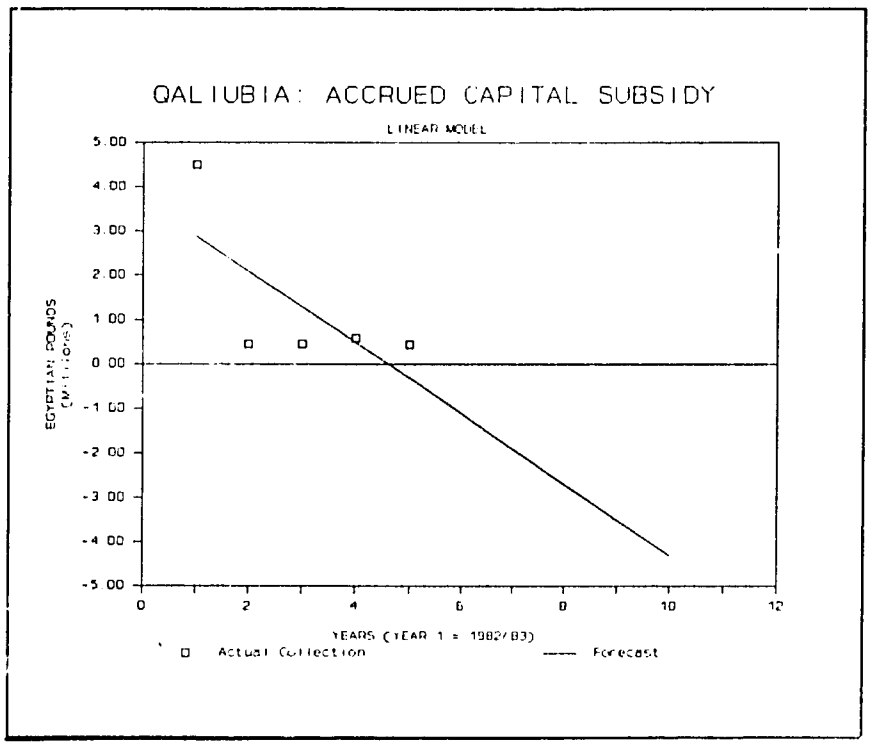
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		128,295
Std Err of Y Est		11,770
R Squared		0.998
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(33,924)	22,708
Std Err of Coef.	19,237	3,146

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.93319	0.93319	6.47323	3	0.991
Quadratic	0.99753	0.06434	7.21905	2	0.981



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	4,501,828	1	1	2,885,342	4,020,962
83-84	457,012	2	4	2,086,228	1,518,418
84-85	450,514	3	9	1,287,113	151,493
85-86	502,899	4	16	487,998	(79,812)
86-87	443,311	5	25	(311,117)	824,503
		6	36	(1,110,231)	2,864,438
		7	49	(1,909,346)	6,039,993
		8	64	(2,708,461)	10,351,168
		9	81	(3,507,575)	15,797,962
		10	100	(4,306,690)	22,380,377

AC = CON + YEAR

Regression Output:

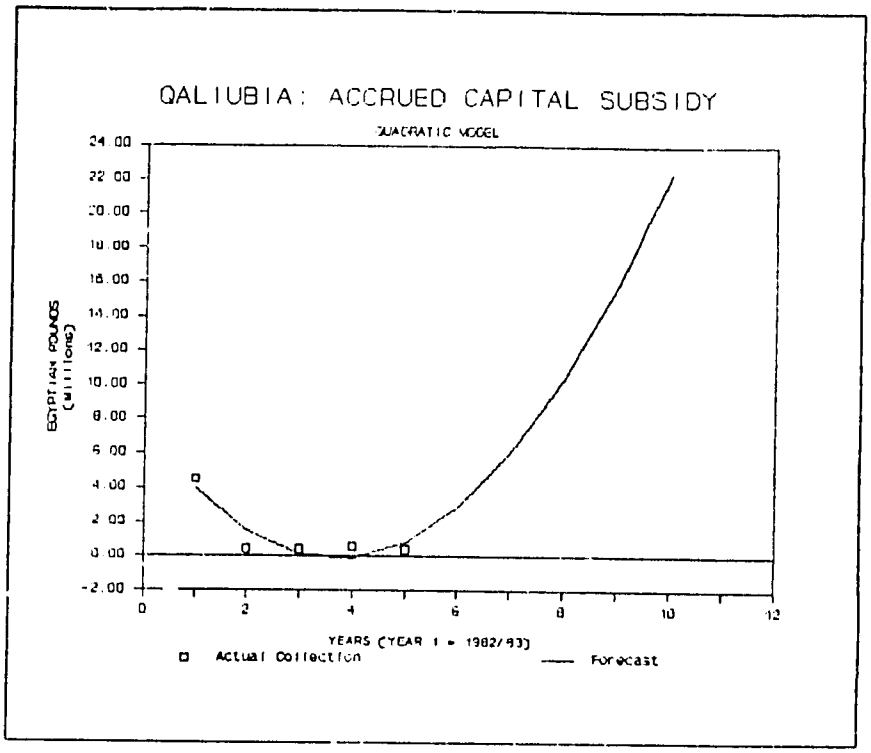
Constant	3,684,457
Std Err of Y Est	1,477,096
R Squared	0.494
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	(799,115)
Std Err of Coef.	467,099

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		7,659,126
Std Err of Y Est		1,007,899
R Squared		0.843
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(4,205,974)	567,810
Std Err of Coef.	1,647,361	269,372

Regression	R squared	Increase	Student's t	df	Signif.
Linear	0.49383	0.49383	1.71081	3	@ 80%
Quadratic	0.84288	0.34905	2.10790	2	@ 80%



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
83	4,501,828	1	1	2,985,342	4,020,352
84	457,012	2	4	2,086,228	1,518,418
85	450,514	3	9	1,287,113	151,233
86	582,395	4	16	487,999	(73,812)
87	443,411	5	25	(311,117)	924,502
		6	36	(1,110,231)	2,364,439
		7	49	(1,909,345)	6,233,333
		8	64	(2,708,461)	13,351,158
		9	81	(3,507,575)	15,737,962
		10	100	(4,306,690)	22,380,377

AC = CON + YEAR

Regression Output:

Constant	3,684,457
Std Err of Y Est	1,477,035
R Squared	0.494
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	(799,115)
Std Err of Coef.	467,399

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		7,659,126
Std Err of Y Est		1,007,999
R Squared		0.843
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(4,205,974)	567,910
Std Err of Coef.	1,647,351	269,372

Regression

	R squared	Increase	Student's t	df	Signif.
Linear	0.49383	0.49383	1.71081	3	@ 80%
Quadratic	0.84238	0.34305	2.10790	2	@ 80%

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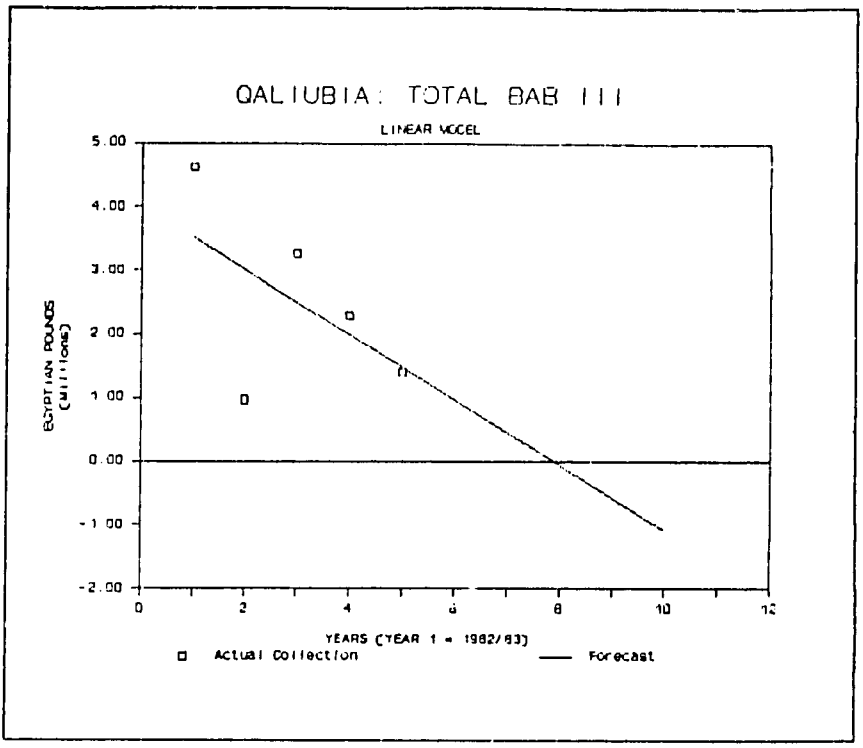


Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
2-83	4,623,081	1	1	3,525,331	3,855,391
3-84	954,165	2	4	3,013,563	2,948,793
4-85	3,249,447	3	9	2,501,294	2,171,735
5-86	2,291,915	4	16	1,989,026	1,324,245
6-87	1,397,394	5	25	1,476,759	1,806,317
		6	36	964,493	2,117,347
		7	49	452,221	2,759,137
		8	64	(60,049)	3,729,380
		9	81	(572,316)	5,030,194
		10	100	(1,084,584)	6,660,062

AC = CON + YEAR

Regression Output:

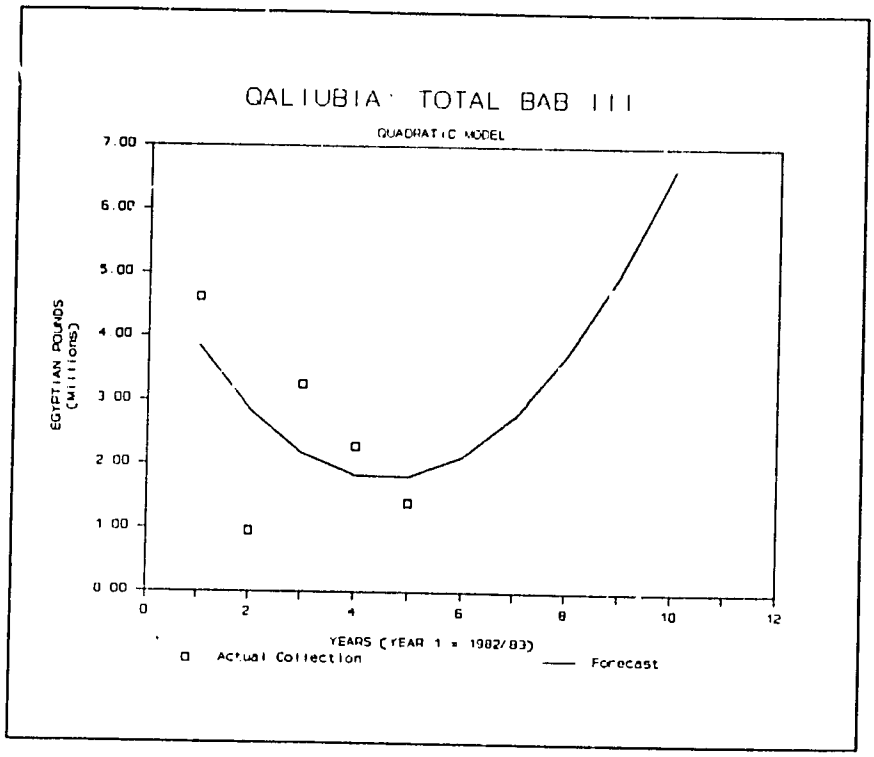
Constant	4,038,100
Std Err of Y Est	1,425,578
R Squared	0.301
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	(512,268)
Std Err of Coef.	450,307

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		5,191,558
Std Err of Y Est		1,690,653
R Squared		0.344
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(1,500,347)	164,780
Std Err of Coef.	2,753,305	451,849

	R squared	Increase	Student's t	df	Signif.
Linear	0.30090	0.30090	1.13634	3	@ 60%
Quadratic	0.34449	0.04359	0.36468	2	NO



Fiscal Year	Actual Collection	Year	Year^2	Linear Forecast	Quadratic Forecast
82-83	4,623,081	1	1	3,525,831	3,855,391
-84	354,165	2	4	3,013,563	2,848,783
-85	3,249,447	3	9	2,501,294	2,171,735
-86	2,281,915	4	16	1,989,026	1,824,246
-87	1,397,864	5	25	1,476,758	1,806,317
		6	36	964,489	2,117,347
		7	49	452,221	2,759,137
		8	64	(60,048)	3,729,896
		9	81	(572,316)	5,030,194
		10	100	(1,084,584)	6,660,062

AC = CON + YEAR

Regression Output:

Constant		4,038,100
Std Err of Y Est		1,425,578
R Squared		0.301
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	(512,258)	
Std Err of Coef.	450,307	

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		5,191,558
Std Err of Y Est		1,690,663
R Squared		0.344
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(1,500,947)	164,780
Std Err of Coef.	2,763,305	451,849

	R squared	Increase	Student's t	df	Signif.
Linear	0.30090	0.30090	1.13634	3	@ 60%
Quadratic	0.34449	0.04359	0.36468	2	NO

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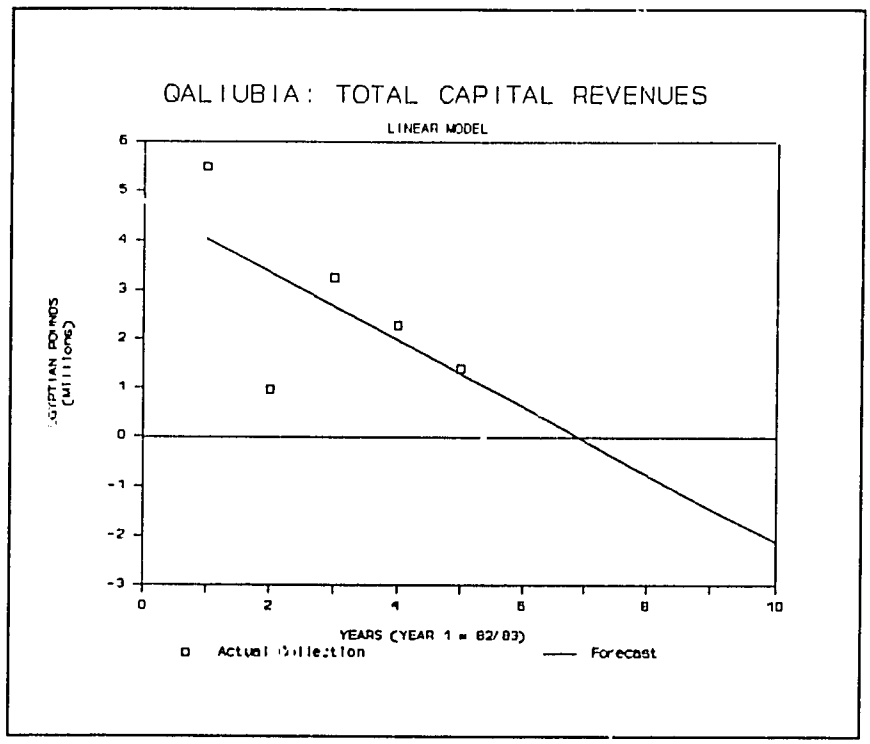


TOTAL Capital Revenue

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	5,491,265	1	1	4,046,742	4,624,354
83-84	954,165	2	4	3,360,836	3,072,030
84-85	3,249,447	3	9	2,674,931	2,037,319
85-86	2,251,935	4	16	1,989,026	1,700,220
86-87	1,397,854	5	25	1,303,121	1,850,759
87-88		6	36	617,219	2,635,859
88-89		7	49	(69,693)	3,974,594
89-90		8	64	(754,595)	5,857,943
90-91		9	81	(1,440,500)	8,376,934
91-92		10	100	(2,126,405)	11,447,477

AC = CON + YEAR

Regression Output:

Constant	4,732,647
Std Err of Y Est	1,663,665
R Squared	0.36107
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	(655,905)
Std Err of Coef.	526,103

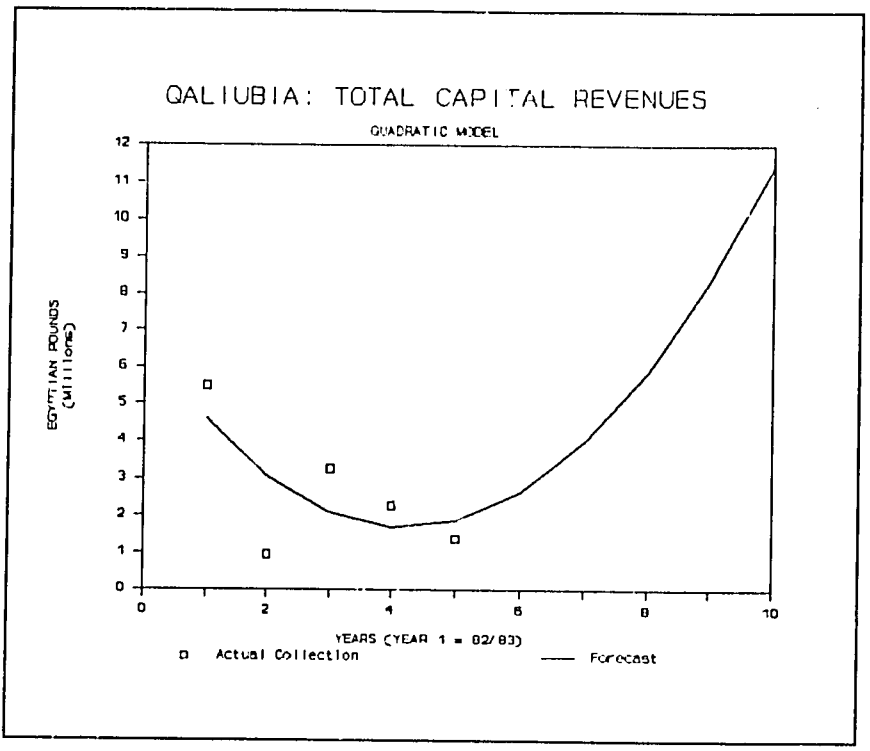
AC = CON + YEAR + YEAR^2

Regression Output:

Constant	6,754,269
Std Err of Y Est	1,865,851
R Squared	0.45144
No. of Observations	5
Degrees of Freedom	2
X Coefficient(s)	(2,416,741) 286,606
Std Err of Coef.	3,057,299 504,827

STUDENT'S T TEST

Regression	R-Squared	Difference	Student's t	DF	Signif.
Linear	0.3617	0.3617	1.3037	3	0.007
Quadratic	0.4514	0.0896	0.4721	2	NS



TOTAL Capital Revenue

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	5,491,365	1	1	4,346,742	4,624,354
83-84	354,165	2	4	3,360,236	3,372,320
84-85	3,249,447	3	9	2,674,931	2,097,319
85-86	2,181,915	4	16	1,989,025	1,720,220
86-87	1,397,964	5	25	1,603,121	1,590,733
87-88		6	36	617,216	2,638,358
88-89		7	49	(68,290)	3,374,594
89-90		8	64	(754,595)	5,287,943
90-91		9	81	(1,440,500)	8,378,304
91-92		10	100	(2,125,405)	11,447,477

AC = CON + YEAR

Regression Output:

Constant		4,732,647
Std Err of Y Est		1,653,635
R Squared		0.36167
No. of Observations		5
Degrees of Freedom		3
X Coefficient(s)	(685,305)	
Std Err of Coef.	525,103	

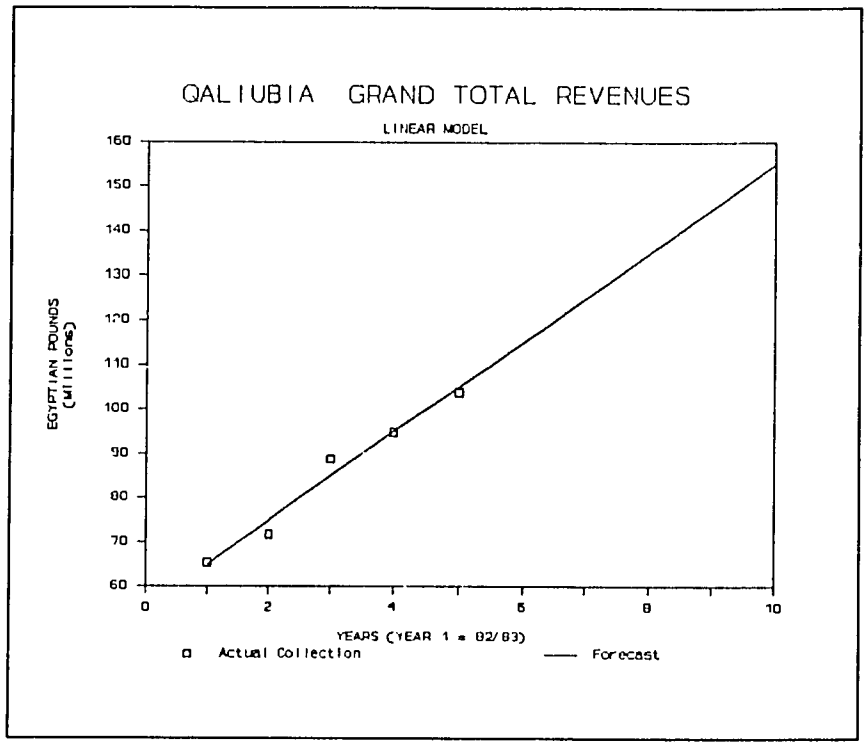
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		6,754,289
Std Err of Y Est		1,838,631
R Squared		0.45144
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	(2,418,741)	258,306
Std Err of Coef.	3,087,239	504,827

STUDENT'S T TEST

Regression	R-Squared	Difference	Student's t	DF	Signif.
Linear	0.3617	0.3617	1.3037	3	@ 60%
Quadratic	0.4514	0.0898	0.5721	2	NO



GRAND TOTAL

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
2-83	65,317,774	1	1	64,594,124	64,581,412
3-84	71,806,117	2	4	74,893,291	75,009,647
4-85	88,496,383	3	9	84,992,457	85,705,159
5-86	94,845,514	4	16	94,891,624	95,007,360
6-87	103,732,313	5	25	104,890,790	104,258,978
7-88		6	36	114,889,957	111,975,465
8-89		7	49	124,889,123	119,090,140
9-90		8	64	134,888,290	125,312,103
0-91		9	81	144,887,456	130,731,355
1-92		10	100	154,886,623	135,317,594

AC = CON + YEAR

Regression Output:

Constant	54,394,958
Std Err of Y Est	2,909,268
R Squared	0.9752
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	9,999,166
Std Err of Coef.	913,991

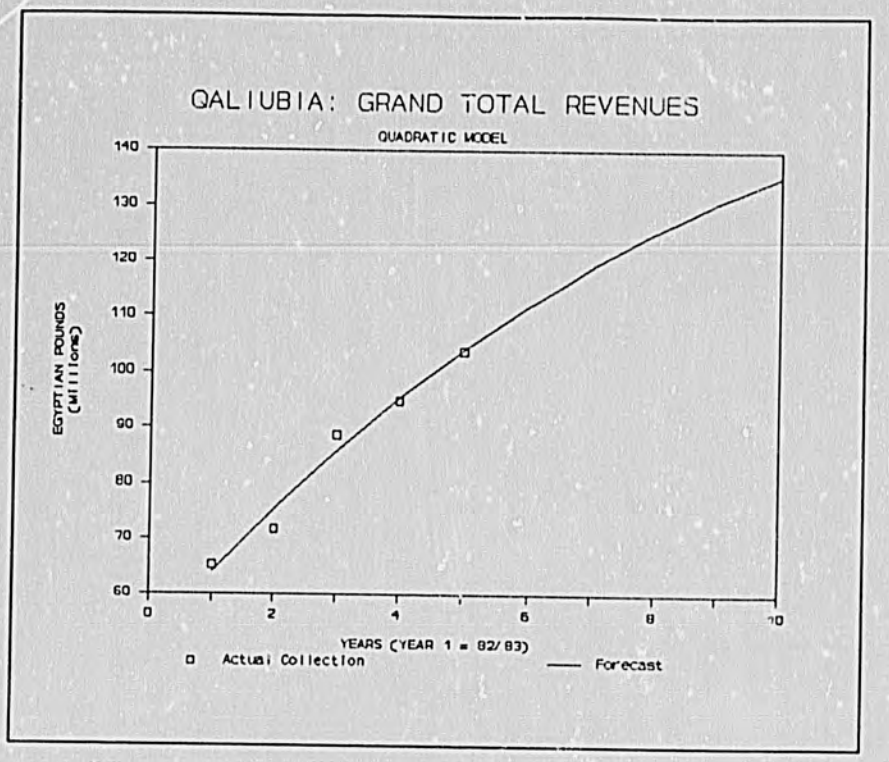
AC = CON + YEAR + YEAR^2

Regression Output:

Constant		51,990,465
Std Err of Y Est		3,388,554
R Squared		0.9776
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	12,497,302	(416,356)
Std Err of Coef.	5,538,424	905,629

STUDENT'S T TEST

Regression	R-Squared	Difference	Student's t	DF	Signif.
Linear	0.9752	0.9752	10.8688	3	@ 99+%
Quadratic	0.9776	0.0024	0.4597	2	NO



GRAND TOTAL

FISCAL YEAR	ACTUAL COLLECTION	YEAR	YEAR^2	FORECAST LINEAR	FORECAST QUADRATIC
82-83	65,317,774	1	1	64,834,124	64,061,412
83-84	71,806,327	2	4	74,833,291	75,309,847
84-85	83,696,353	3	9	84,832,457	85,725,169
85-86	94,848,914	4	16	94,891,624	95,307,330
86-87	103,792,313	5	25	104,890,730	104,058,078
87-88		6	36	114,889,957	111,975,465
88-89		7	49	124,889,123	119,060,140
89-90		8	64	134,888,290	125,312,103
90-91		9	81	144,887,456	130,731,355
91-92		10	100	154,886,623	135,317,894

AC = CON + YEAR

Regression Output:

Constant	54,834,958
Std Err of Y Est	2,909,268
R Squared	0.9752
No. of Observations	5
Degrees of Freedom	3
X Coefficient(s)	9,999,166
Std Err of Coef.	919,991

AC = CON + YEAR + YEAR^2

Regression Output:

Constant		51,980,466
Std Err of Y Est		3,388,554
R Squared		0.9776
No. of Observations		5
Degrees of Freedom		2
X Coefficient(s)	12,497,302	(416,356)
Std Err of Coef.	5,538,424	905,629

STUDENT'S T TEST

Regression	R-Squared	Difference	Student's t	DF	Signif.
Linear	0.9752	0.9752	10.8888	3	@ 99+%
Quadratic	0.9776	0.0024	0.4597	2	NO