

CHAPTER – 5

AGRICULTURAL PRODUCTIVITY AND COMPARATIVE ANALYSIS

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5.1 Introduction

This chapter deals with the comparative analysis of agricultural productivity in Telangana and Haryana. We have taken four indicators. They are fertilizer consumption, area productivity, climate change in rain fall and irrigation. These things have large variations in both states. The main thing between the comparison of new state and old state is its consumption of fertilizer ratio, quality of land, distribution of rain fall and actual rain fall. These indicators have been analyzed in this section of study.

5.2 Agriculture Productivity and Comparative Analysis in Telangana and Haryana

Table No: 5.1 Growth Rate of Fertilizers in Telangana and Haryana					
Si No	Years	Total(NPK)	TGR(NPK)	Total(NPK)	TGR(NPK)
1	2010-11	2153375		1357622	
2	2011-12	2048844	-4.85	1428047	5.19
3	2012-13	1944313	-5.10	1353061	-5.25
4	2013-14	2412908	24.10	1164671	-13.92
5	2014-15	2751531	14.03	1175894	0.96
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana Hyderabad.					

N=Nitrogen, P= Phosphate, K= Potash TGR= Total Growth Rate, GR= Growth Rate

Above table 5.1 represents the growth rate of fertilizer in Telangana and Haryana. It can be observed from the table that in Telangana total fertilizer have been increased since 2011-12. In Telangana it has increased from -4.85 per cent of 2011-12 to 14.03 per cent of 2013-14. While on the other hand the fertilizer of same period in Haryana with the decrease in the period of fertilizer from 5.19 per cent of 2011-12 to 0.96 per cent of 2013-14. Irrigation has little increased in Telangana while declaration in irrigation same in Haryana has observed.

Figure No 5.1: Growth Rate of Fertilizer Consumption in Telangana and Haryana

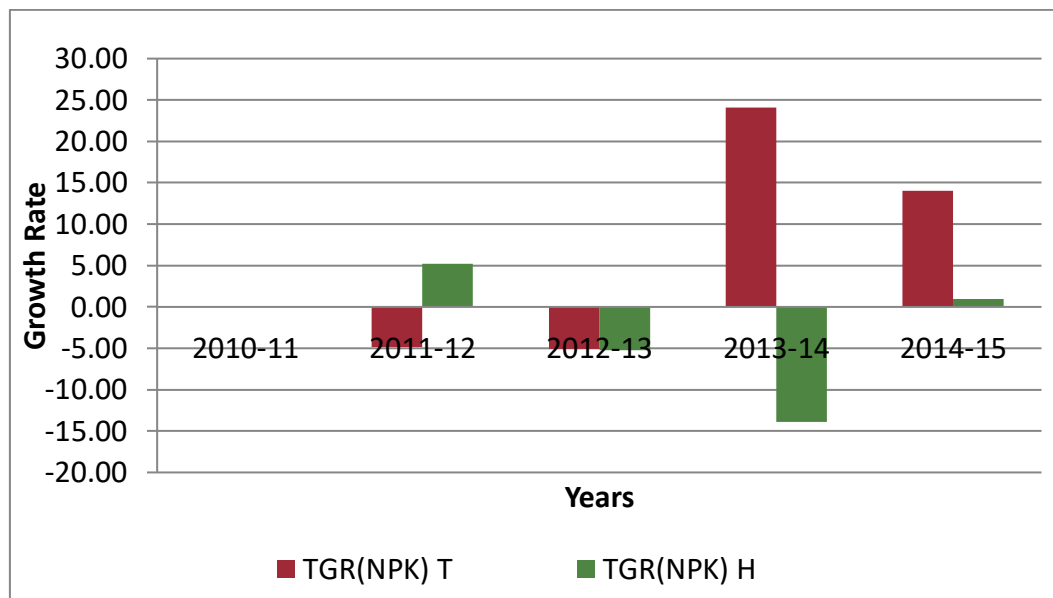


Table No 5.2: Rainfall Change in Haryana and Telangana

years	Haryana		Telangana	
	actual	growth rate of climate	actual	growth rate of climate
1	2	3	4	5
2004-05	357.5		614	
2005-06	476.4	24.96	1117.6	45.06
2006-07	290.6	-63.94	804.2	-38.97
2007-08	314.5	7.60	940	14.45
2008-09	536.5	41.38	820.9	-14.51
2009-10	283.9	-88.97	681.7	-20.42
2010-11	564.9	49.74	1100.8	38.07
2011-12	374.4	-50.88	660.6	-66.64
2012-13	277.8	-34.77	916.8	27.95
2013-14	356.7	22.12	1212.2	24.37

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Above table no. 5.2 represents the growth rate of rainfall in Telangana and Haryana. It can be observed from the table that in Telangana climate of rainfall have been increased since 2004-05. Climate of rainfall in Telangana has fluctuation and increased from 45.06 per cent of 2004-05 to 24.37 per cent of 2013-14. While on the other hand the climate of same rainfall in Haryana with the fluctuations of increase in the climate of rainfall from 24.96 per cent of 2004-05 to 22.12 per cent of 2013-14. climate of rainfall following years respectively. Climate of rainfall has little increased in Telangana while declaration in climate of rainfall in Haryana has observed.

Figure No 5.2: Growth Rate of Climate in Haryana and Telangana

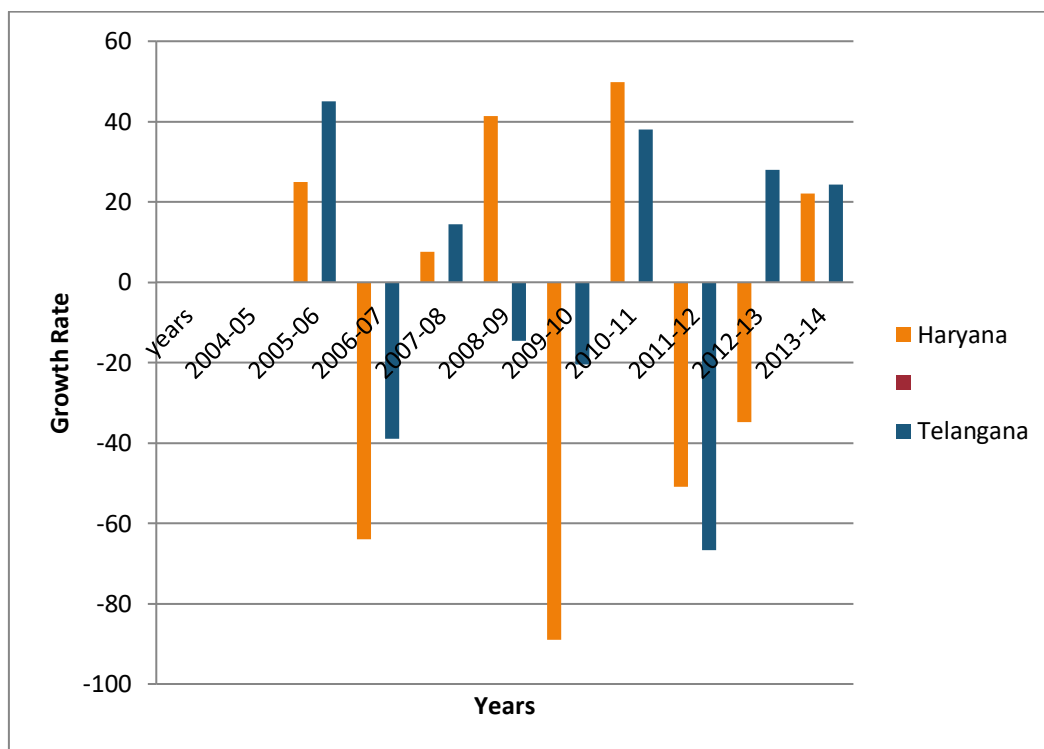


Table No 5.3: Growth Rate of Irrigation in Telangana and Haryana				
Telangana			Haryana	
Years	Total	GR(TT)	Total	GR(TT)
1	2	3	4	5
2008-09	1882390		2877	
2009-10	1492826	-20.70	3069	6.67
2010-11	2003987	34.24	2887	-5.93
2011-12	1984618	-0.97	3072	6.41
2012-13	1774117	-10.61	3102	0.98
2013-14	2289332	29.04	2931	-5.51

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Above table no. 5.3 represents the growth rate of irrigation in Telangana and Haryana. It can be observed from the table that in Telangana irrigation have been fluctuation and increased since 2009-10. Growth rate of irrigation in Telangana has partially increased from -20.70 per cent of 2008-09 to 29.04 per cent of 2013-14. While on the other hand the irrigation of same period in Haryana with the fluctuation and decrease in the period of irrigation from 6.67 per cent of 2009-10 to -5.51 per cent of 2013-14.

Figure No 5.4: Growth Rate of Irrigation in Telangana and Haryana

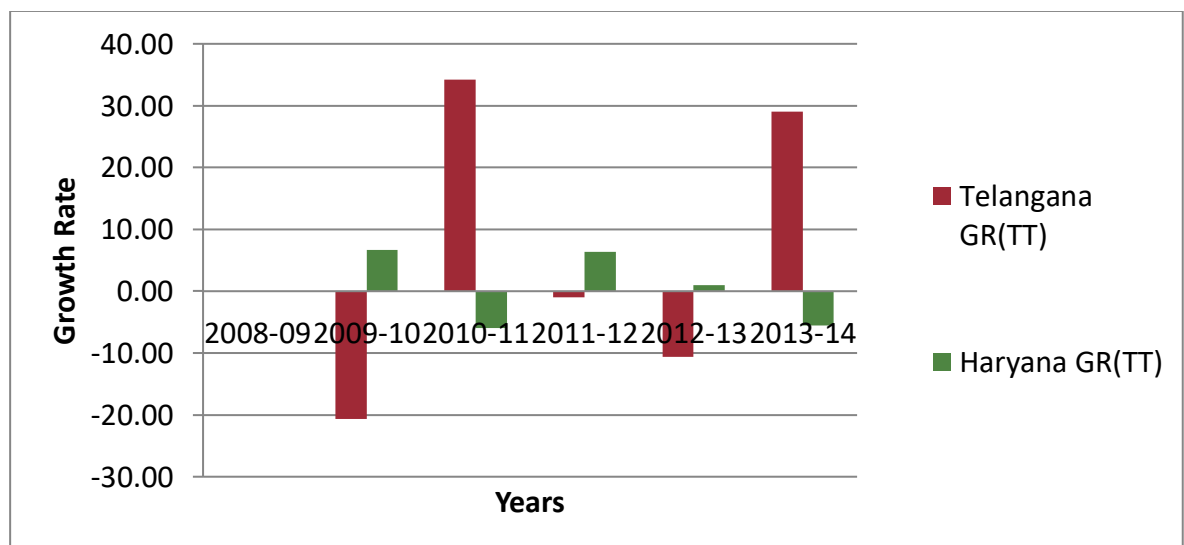


Table No 5.4.1: Growth Rate of Paddy in Telangana and Haryana									
Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	Area	2	1406332	1691491	1115005	1978932	1749548	1418504	2008526
	GR(A)	3		20.28	-34.08	77.48	-11.59	-18.92	41.59
	Prdn	4	4443376	5360547	3269196	6536235	5147617	4647795	6622209
	GR(P)	5		20.64	-39.01	99.93	-21.24	-9.71	42.48
	Yield	6	3.16	3.169	2.932	3.303	2.942	3.277	3.297
	GR(P)	7		0.3	-7.48	12.65	-10.92	11.36	0.63
Haryana	Area	8	1072.5	1211.2	1206.4	1243.3	1234.1	1206.3	1244.6
	GR(A)	9		12.93	-0.4	3.06	-0.74	-2.25	3.17
	Prdn	10	3606	3299	3628	3465	3757	3941	4041
	GR(P)	11		-8.51	9.97	-4.49	8.43	4.9	2.54
	Yield	12	3.361	2.724	3.008	2.788	3.044	3.268	3.248
	GR(Pr)	13		-18.95	10.43	-7.31	9.18	7.36	-0.61
Source: Department of Economic and Statistical Analysis, Haryana.									
Directorate of Economics and Statistics, Government of Telangana, Hyderabad									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no.5.4.1 represents the growth rate of area, production and productivity of paddy in Telangana and Haryana. It can be observed from the table that in Telangana area of paddy production and its productivity have been increased since 2008-09. Production of paddy in Telangana has increased from 20.64 per cent of 2008-09 to 42.48 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the decrease in the area of production from 12.93 per cent of 2008-09 to 3.17 per cent of 2013-14. Production of paddy in Haryana has increased from -8.51 per cent to 2.54 per cent of subsequent years respectively. Productivity of paddy has increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of paddy.

Figure No.5.4.1: Growth Rate of Paddy in Telangana and Haryana

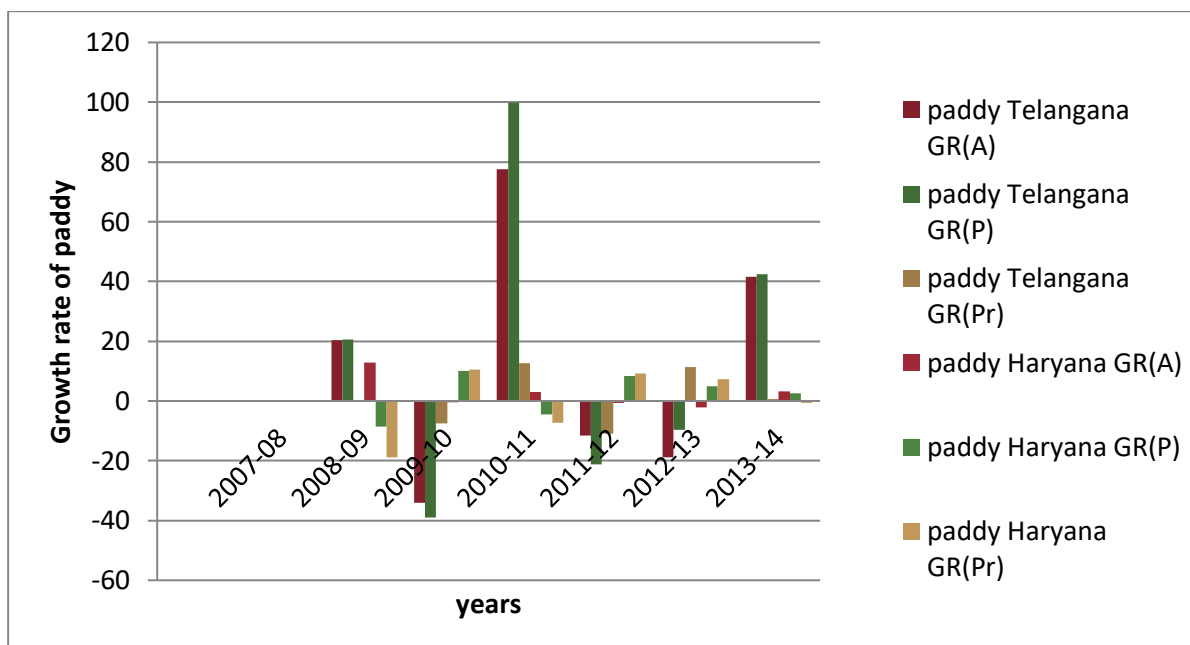


Table No 5.4.2: Growth Rate of Wheat in Telangana and Haryana

	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Telangana	area	2	7564	12654	9082	9328	7943	7932	7039
	GR(A)	3		67.29	-28.23	2.71	-14.85	-0.14	-11.26
	Prdn	4	7534	14716	9892	12082	10549	8895	4366
	GR(P)	5		95.33	-32.78	22.14	-12.69	-15.68	-50.92
	yied	6	0.996	1.163	1.089	1.295	1.328	1.121	0.62
	GR(Pr)	7		16.76	-6.34	18.92	2.54	-15.56	-44.69
	Haryana	area	8	2460.7	2461.4	2487.7	2504.1	2531.3	2496.9
GR(A)		9		0.03	1.07	0.66	1.09	-1.36	0.09
prdn		10	10232	11360	10488	11578	13119	11117	11800
GR(P)		11		11.02	-7.68	10.39	13.31	-15.26	6.14
yield		12	4.158	4.616	4.215	4.624	5.183	4.452	4.722
GR(Pr)		13		11.01	-8.69	9.7	12.09	-14.1	6.06

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no.5.4.2 represents the growth rate of area, production and productivity of wheat in Telangana and Haryana. It is observed from the table that in Telangana area of wheat production and its productivity have been decreased since 2008-09. Production of wheat in Telangana has decreased from 95.33 per cent of 2008-09 to -50.92 per cent of 2013-14. On the other hand the production of same crop in Haryana with the increase in the area of production from 0.03 per cent of 2008-09 to 0.09 per cent of 2013-14. Production of wheat in Haryana has decreased from 11.02 per cent to 6.14 per cent of subsequent years respectively. Productivity of wheat has decreased in Telangana while declaration in productivity of same crop in Haryana has been observed. Telanagana is less productive with the large area of production of wheat.

Figure No.5.4.2: Growth Rate of Wheat in Telangana and Haryana

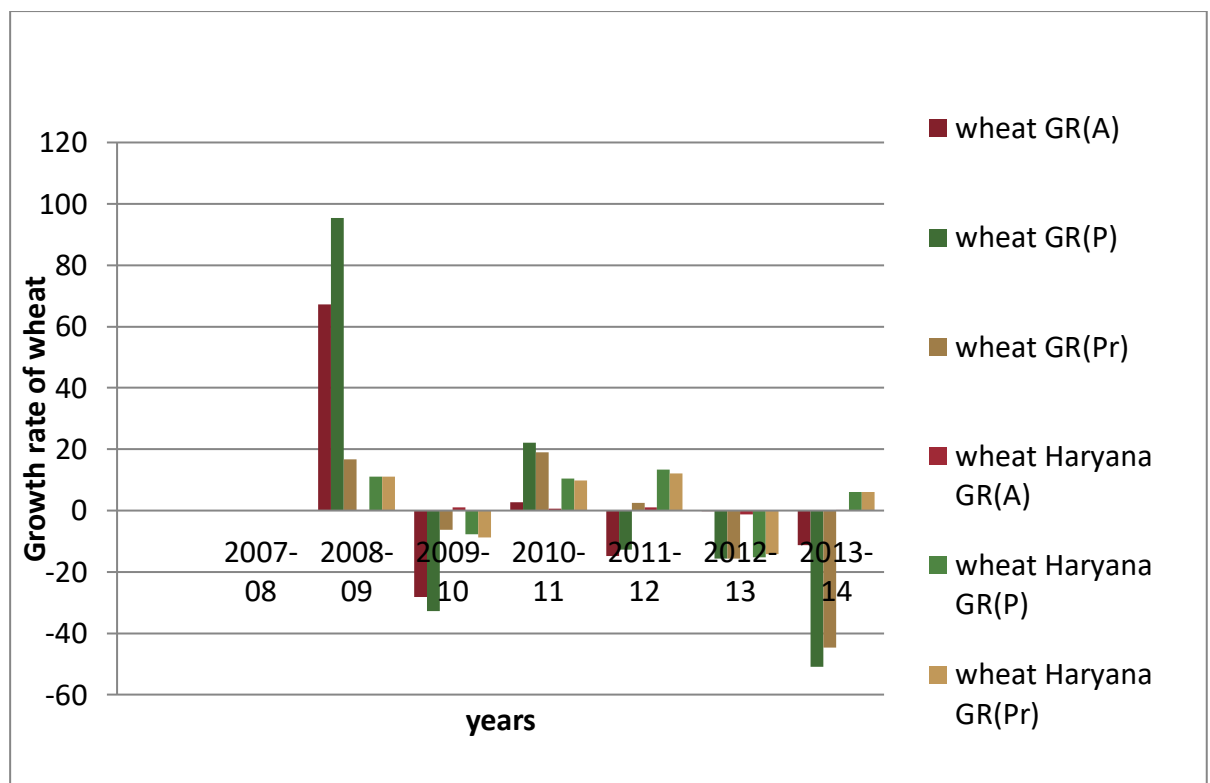


Table No: 5.4.3 Growth Rate of Jowar in Telangana and Haryana									
Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	230470	176258	224307	166120	128441	122709	108970
	GR(A)	3		-23.52	27.26	-25.94	-22.68	-4.46	-11.2
	prodn	4	269805	195962	196715	151620	144171	134254	110612
	GR(P)	5		-27.37	0.38	-22.92	-4.91	-6.88	-17.61
	yield	6	1.171	1.112	0.877	0.913	1.122	1.094	1.015
	GR(Pr)	7		-5.03	-21.12	4.07	22.98	-2.53	-7.22
Haryana	area	8	90.7	86.6	77.7	70.8	64.7	55.2	62.3
	GR(A)	9		-4.52	-10.28	-8.88	-8.62	-14.68	12.86
	prodn	10	42	44	39	38	33	27	34
	GR(P)	11		4.76	-11.36	-2.56	-13.16	-18.18	25.93
	yield	12	0.463	0.508	0.502	0.537	0.51	0.489	0.546
	GR(Pr)	13		9.72	-1.21	6.93	-4.97	-4.1	11.57
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.3 represents the growth rate of area, production and productivity of jowar in Telangana and Haryana. It can be observed from the table that in Telangana area of jowar production and its productivity have been decreased since 2008-09. Production of jowar in Telangana has decreased from -27.37 per cent of 2008-09 to -17.61 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the increase in the area of production from -4.52 per cent of 2008-09 to 12.86 per cent of 2013-14. Production of jowar in Haryana has increased from 4.76 per cent to 25.93 per cent of subsequent years respectively. Productivity of jowar has fluctuations in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of jowar.

Figure No.5.4.3: Growth Rate of Jowar in Telangana and Haryana

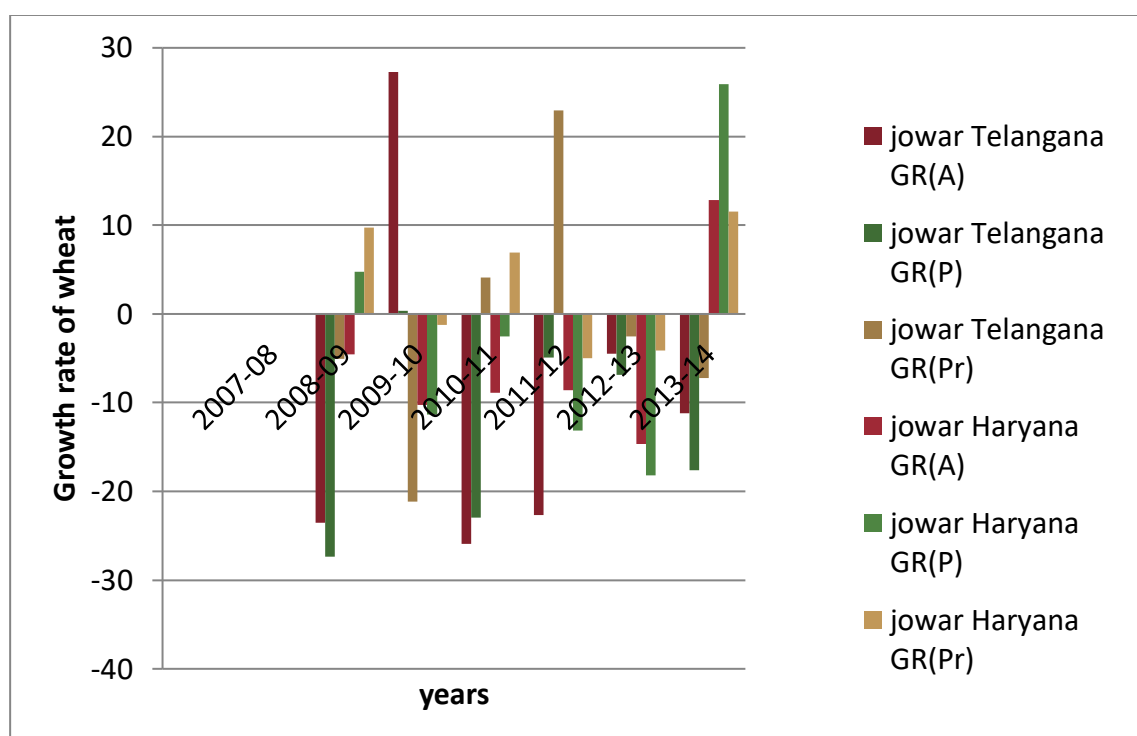


Table No: 5.4.4 Growth Rate of Bajra in Telangana and Haryana

Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	23807	21853	16745	19114	11343	9819	13218
GR(A)	3		-8.21	-23.37	14.15	-40.66	-13.44	34.62	
prodn	4	15240	13853	8106	13856	7100	12110	12452	
GR(P)	5		-9.1	-41.49	70.94	-48.76	70.56	2.82	
yield	6	0.641	0.633	0.484	0.725	0.626	1.233	0.942	
GR(Pr)	7		-1.25	-23.54	49.79	-13.66	96.96	-23.6	
Haryana	area	8	628	612.9	583.8	659.6	576.2	410.7	403.6
	GR(A)	9		-2.4	-4.74	12.98	-12.64	-28.72	-1.72
	prodn	10	1156	1087	930	1183	1175	791	829
	GR(P)	11		-5.97	-14.44	27.2	-0.68	-32.68	4.8
	yield	12	1.841	1.773	1.592	1.792	2.04	1.925	2.057
	GR(Pr)	13		-3.69	-10.21	12.56	13.84	-5.64	6.86

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.4 represents the growth rate of area, production and productivity of bajra in Telangana and Haryana. It can be observed from the table that in Telangana area of bajra production and its productivity have been increased since 2008-09. Production of bajra in Telangana has increased from -9.10 per cent of 2008-09 to 2.82 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the partially decrease in the area of production from -2.40 per cent of 2008-09 to -1.72 per cent of 2013-14. Production of bajra in Haryana has increased from -5.97 per cent to 4.80 per cent of subsequent years respectively. Productivity of bajra has increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of bajra.

Figure No.5.4.4: Growth Rate of Bajra in Telangana and Haryana

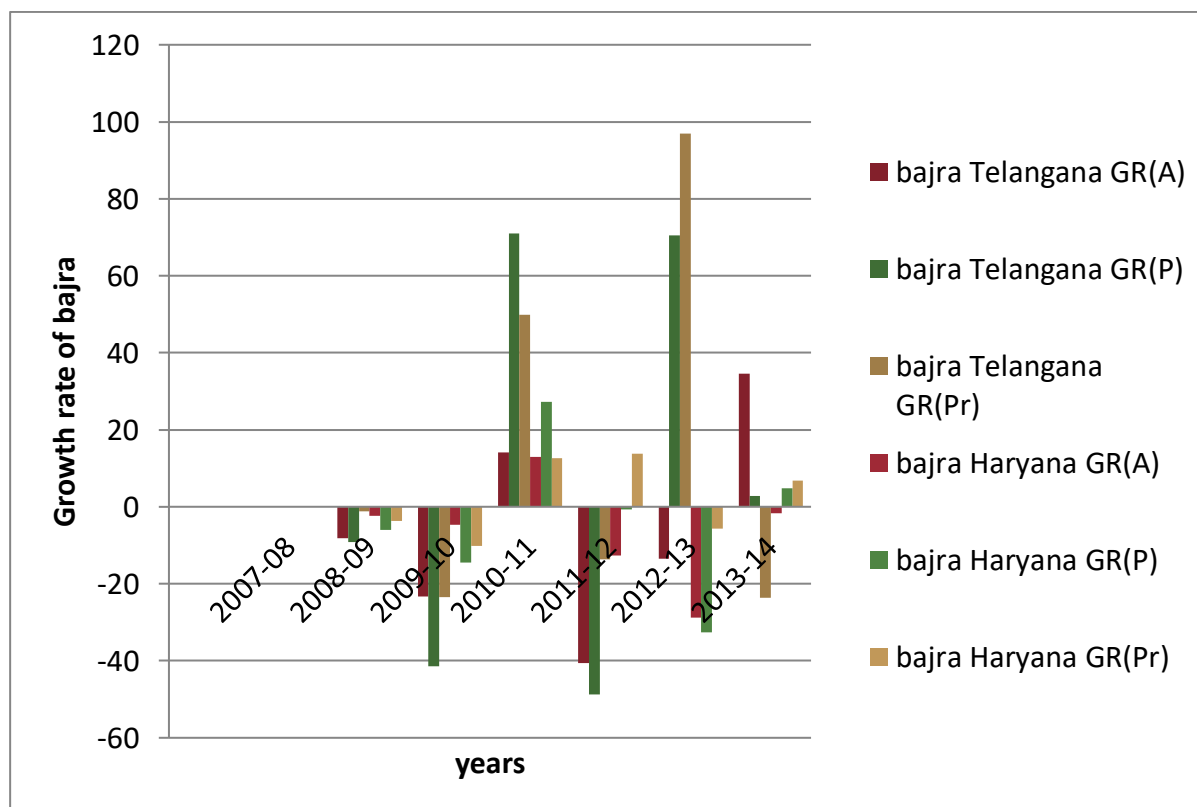


Table No 5.4.5: Growth Rate of Maize in Telangana and Haryana									
Telangana	years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	604530	600605	569280	510026	591349	662938	752451
	GR(A)	3		-0.65	-5.22	-10.41	15.94	12.11	13.5
	prodn	4	2872680	2193334	1366030	2068560	1892475	2943717	3524907
	GR(P)	5		-23.65	-37.72	51.43	-8.51	55.55	19.74
	yield	6	4.752	3.652	2.4	4.056	3.2	4.44	4.685
	GR(Pr)	7		-23.15	-34.29	69.02	-21.09	38.75	5.5
Haryana	area	8	13.8	11.8	12.2	9.6	11	9.9	8.5
	GR(A)	9		-14.49	3.39	-21.31	14.58	-10	-14.14
	prodn	10	37	25.2	26	19	30	26	24
	GR(P)	11		-31.89	3.17	-26.92	57.89	-13.33	-7.69
	yield	12	2.681	2.136	2.131	1.979	2.727	2.626	2.824
	GR(Pr)	13		-20.35	-0.21	-7.13	37.8	-3.7	7.51
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.5 represents the growth rate of area, production and productivity of maize in Telangana and Haryana. It can be observed from the table that in Telangana area of maize production and its productivity have been increased since 2008-09. Production of maize in Telangana has increased from -23.65 per cent of 2008-09 to 19.74 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the decrease in the area of production from -14.49 per cent of 2008-09 to -14.14 per cent of 2013-14. Production of maize in Haryana has decreased from -31.89 per cent to -7.69 per cent of subsequent years respectively. Productivity of maize has increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of maize.

Figure No 5.4.5: Growth Rate of Maize in Telangana and Haryana

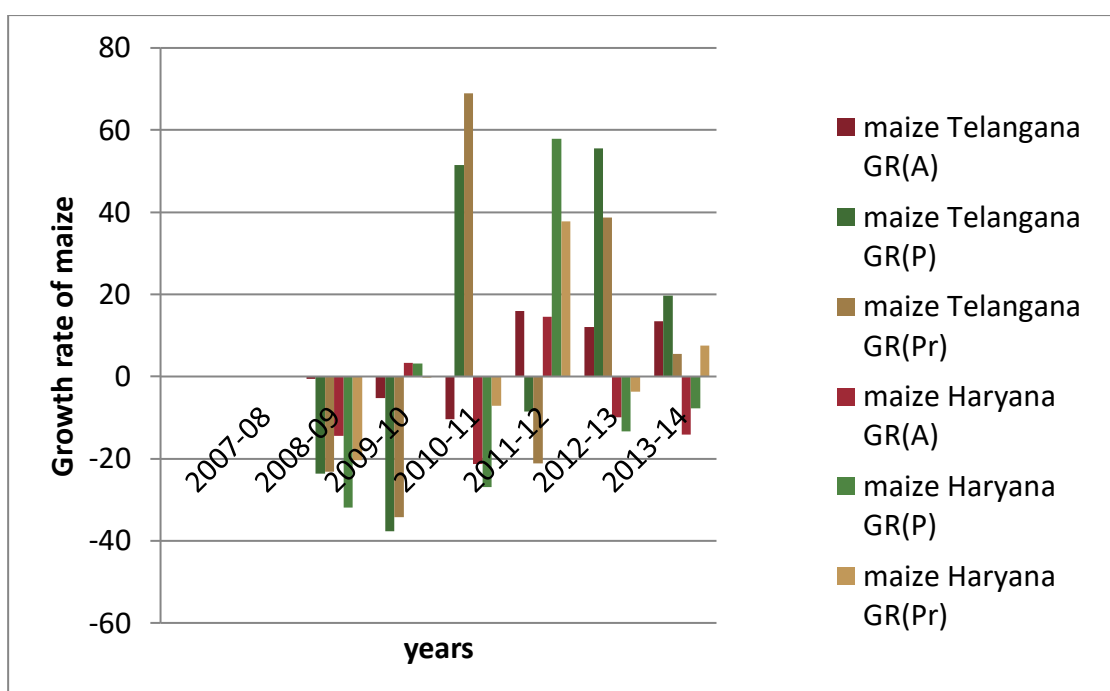


Table No 5.4.6: Growth Rate of Green Gram in Telangana and Haryana

Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	8074	7069	7021	5426	3305	4123	2944
	GR(A)	3		-12.45	-0.68	-22.72	-39.09	24.75	-28.6
	prodn	4	3516	2915	2341	2268	424	2197	1480
	GR(P)	5		-17.09	-19.69	-3.12	-81.31	418.16	-32.64
	yield	6	0.435	0.412	0.333	0.418	0.128	0.533	0.503
	GR(Pr)	7		-5.31	-19.14	25.36	-69.31	315.36	-5.66
Haryana	area	8	21.8	14.5	14.9	26	16.8	440	360
	GR(A)	9		-33.49	2.76	74.5	-35.38	2519.05	-18.18
	prodn	10	9.6	6.5	6.6	11.9	8.1	8.6	7.1
	GR(P)	11		-32.29	1.54	80.3	-31.93	6.17	-17.44
	yield	12	0.44	0.448	0.443	0.458	0.482	0.02	0.02
	GR(Pr)	13		1.8	-1.19	3.33	5.34	-95.95	0.9

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.6 represents the growth rate of area, production and productivity of green gram in Telangana and Haryana. It can be observed from the table that in Telangana area of green gram production and its productivity have been decreased since 2008-09. Production of green gram in Telangana has decreased from -17.09 per cent of 2008-09 to -32.64 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the increase in the area of production from -33.49 per cent of 2008-09 to -18.18 per cent of 2013-14. Production of green gram in Haryana has increased from -32.29 per cent to -17.44 per cent of subsequent years respectively. Productivity of green gram has decreased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is less productive with the large area of production of green gram.

Figure No 5.4.6: Growth Rate of Green gram in Telangana and Haryana

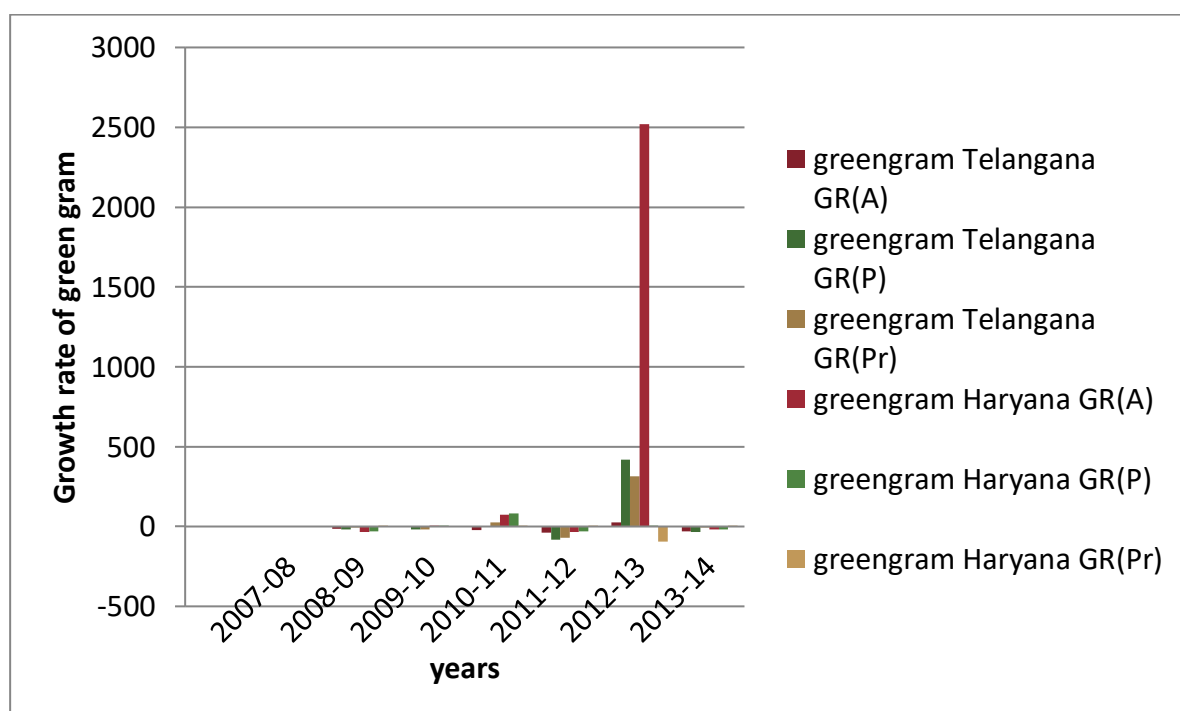


Table No 5.4.7: Growth Rate of Total Pulses in Telangana and Haryana									
Telangana	years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	730602	663931	711970	757124	618120	610652	562959
	GR(A)	3		-9.13	7.24	6.34	-18.36	-1.21	-7.81
	Prodn	4	515600	463190	337190	474327	296299	491000	471235
	GR(P)	5		-10.16	-27.2	40.67	-37.53	65.71	-4.03
	yield	6	0.706	0.698	0.474	0.626	0.479	0.804	0.837
	GR(Pr)	7		-1.14	-32.11	32.28	-23.49	67.74	4.11
Haryana	area	8	172	184	131.6	175.6	123	75.3	105.3
	GR(A)	9		6.98	-28.48	33.43	-29.95	-38.78	39.84
	prodn	10	101.1	177.6	97.3	153.1	107	285.6	90.9
	GR(P)	11		75.67	-45.21	57.35	-30.11	166.92	-68.17
	yield	12	0.588	0.965	0.739	0.872	0.87	3.793	0.863
	GR(Pr)	13		64.21	-23.4	17.92	-0.22	336	-77.24
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.7 represents the growth rate of area, production and productivity of total pulses in Telangana and Haryana. It can be observed from the table that in Telangana area of total pulses production and its productivity have been partially increased since 2008-09. Production of total pulses in Telangana has increased from -10.16 per cent of 2008-09 to -4.03 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the decrease in the area of production from 6.98 per cent of 2008-09 to -38.78 per cent of 2012-13. Production of total pulses in Haryana has increased from 75.67 per cent to 166.92 per cent of following years respectively. Later year of area increase but production decrease. Productivity of total pulses has little decreased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is less productive with the large area of production of total pulses.

Figure No 5.4.7: Growth Rate of Total Pulses in Telangana and Haryana

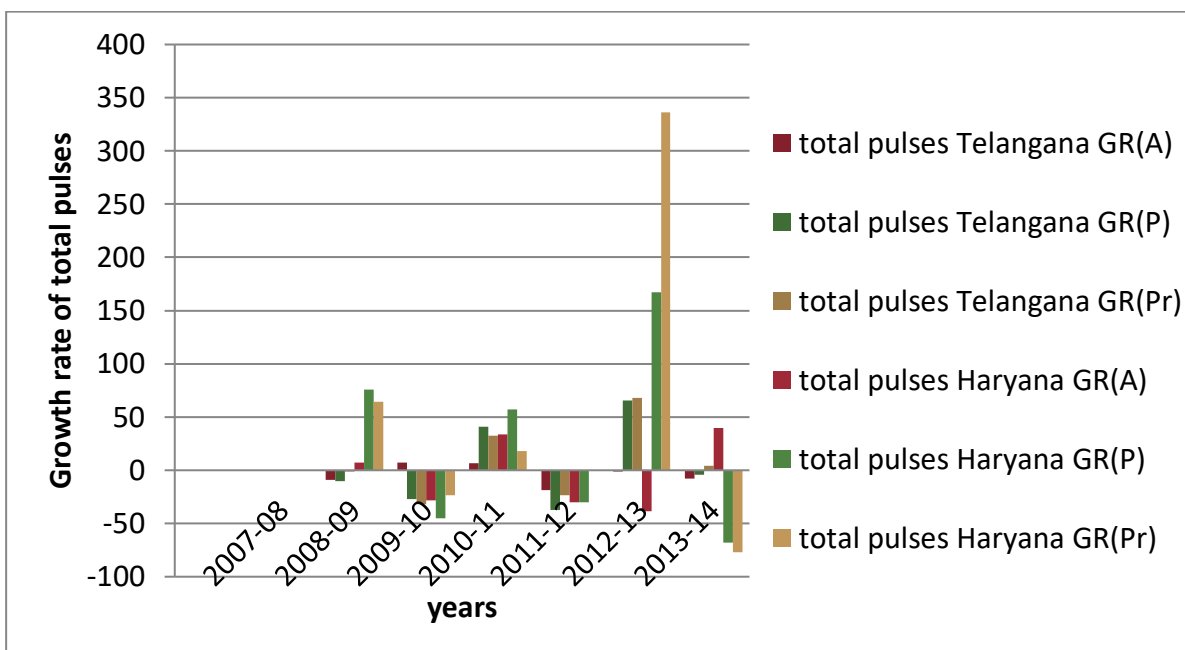


Table No 5.4.8: Growth Rate of Sesamum in Telangana and Haryana

		1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	29820	29750	29680	27233	19638	22582	24197
	GR(A)	3		-0.23	-0.24	-8.24	-27.89	14.99	7.15
	prodn	4	8657	7356	6055	7245	6764	9038	8710
	GR(P)	5		-15.03	-17.69	19.65	-6.64	33.62	-3.63
	yield	6	0.29	0.247	0.204	0.266	0.344	0.4	0.36
	GR(Pr)	7		-14.83	-17.49	30.4	29.47	16.2	-10.06
Haryana	area	8	2.7	3.7	3	3.3	2	1.5	1.3
	GR(A)	9		37.04	-18.92	10	-39.39	-25	-13.33
	prodn	10	1	1.3	1.2	1.4	0.7	0.6	0.6
	GR(P)	11		30	-7.69	16.67	-50	-14.29	0
	yield	12	0.37	0.351	0.4	0.424	0.35	0.4	0.462
	GR(Pr)	13		-5.14	13.85	6.06	-17.5	14.29	15.38

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no.5.4.8 represents the growth rate of area, production and productivity of sesamum in Telangana and Haryana. It can be observed from the table that in Telangana area of sesamum production and its productivity have been increased since 2008-09. Production of sesamum in Telangana has partially increased from -15.03 per cent of 2008-09 to -3.63 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the decrease in the area of production from 37.04 per cent of 2008-09 to -13.33 per cent of 2013-14. Production of sesamum in Haryana has gradually decreased from 30.00 per cent to 0.00 per cent of following years respectively. Productivity of sesamum has little decreased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of sesamum.

Figure No 5.4.8: Growth Rate of Sesamum in Telangana and Haryana

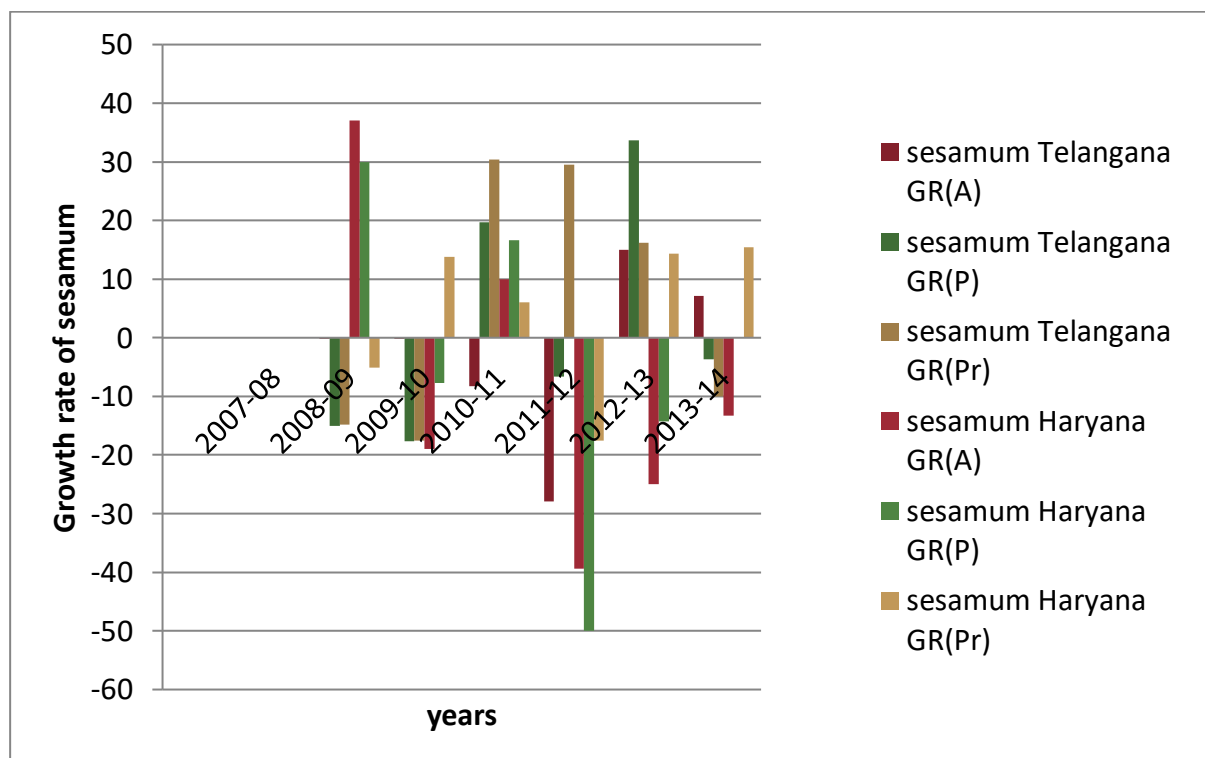


Table No 5.4.9: Growth Rate of Groundnut in Telangana and Haryana									
Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	187827	200623	213419	195894	171361	187154	210085
	GR(A)	3		6.81	6.38	-8.21	-12.52	9.22	12.25
	Prodn	4	272486	315676	358866	351207	262037	334842	355197
	GR(P)	5		15.85	13.68	-2.13	-25.39	27.78	6.08
	yield	6	1.451	1.573	1.682	1.793	1.529	1.789	1.691
	GR(Pr)	7		8.46	6.87	6.62	-14.71	17	-5.5
Haryana	area	8	1.3	1.6	1.7	2.3	2.1	2.6	5.6
	GR(A)	9		23.08	6.25	35.29	-8.7	23.81	115.38
	prodn	10	1	1.4	1.6	2.4	2	3.1	6.7
	GR(P)	11		40	14.29	50	-16.67	55	116.13
	yield	12	0.769	0.875	0.941	1.043	0.952	1.192	1.196
	GR(Pr)	13		13.75	7.56	10.87	-8.73	25.19	0.35
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.9 represents the growth rate of area, production and productivity of groundnut in Telangana and Haryana. It can be observed from the table that in Telangana area of groundnut production and its productivity have been increased since 2008-09. Production of groundnut in Telangana has partially decreased from 15.85 per cent of 2008-09 to 6.08 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the increase in the area of production from 23.08 per cent of 2008-09 to 115.38 per cent of 2013-14. Production of groundnut in Haryana has gradually increased from 40.00 per cent to 116.13 per cent of following years respectively. Productivity of groundnut has little increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of groundnut.

Figure No 5.4.9: Growth Rate of groundnut in Telangana and Haryana

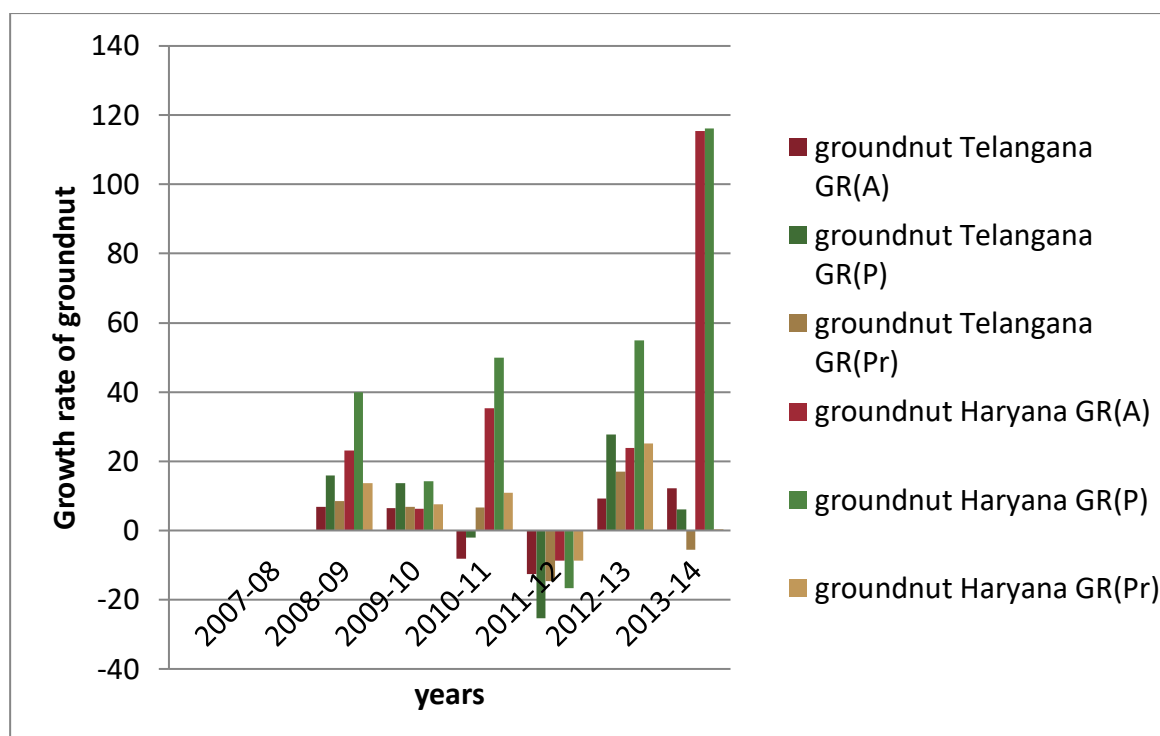


Table No: 5.4.10 Growth Rate of Total Oilseeds in Telangana and Haryana

	years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Telangana	area	2	618858	598526	578194	496861	448442	508376	588778
	GR(A)	3		-3.29	-3.4	-14.07	-9.74	13.36	15.82
	prodn	4	774984	717239	659494	701436	587922	806607	881240
	GR(P)	5		-7.45	-8.05	6.36	-16.18	37.2	9.25
	yield	6	1.252	1.198	1.141	1.412	1.311	1.587	1.497
	GR(Pr)	7		-4.31	-4.82	23.77	-7.13	21.02	-5.67
	Haryana	area	8	511.3	527.6	523	521	545.8	567.6
GR(A)		9		3.19	-0.87	-0.38	4.76	3.99	-3.37
prodn		10	617.2	911.5	862	964.9	754.8	970	899.1
GR(P)		11		47.68	-5.43	11.94	-21.77	28.51	-7.31
yield		12	1.207	1.728	1.648	1.852	1.383	1.709	1.639
GR(Pr)		13		43.12	-4.6	12.37	-25.33	23.58	-4.08

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.10 represents the growth rate of area, production and productivity of total oilseeds in Telangana and Haryana. It can be observed from the table that in Telangana area of total oilseeds production and its productivity have been increased since 2008-09. Production of total oilseeds in Telangana has partially increased from -7.45 per cent of 2008-09 to 9.25 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the slowly decrease in the area of production from 3.19 per cent of 2008-09 to -3.37 per cent of 2013-14. Production of total oilseeds in Haryana has fluctuations from 47.68 per cent to -7.31 per cent of following years respectively. Productivity of total oilseeds has little increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of total oilseeds.

Figure No 5.4.10: Growth Rate of Total Oilseeds in Telangana and Haryana

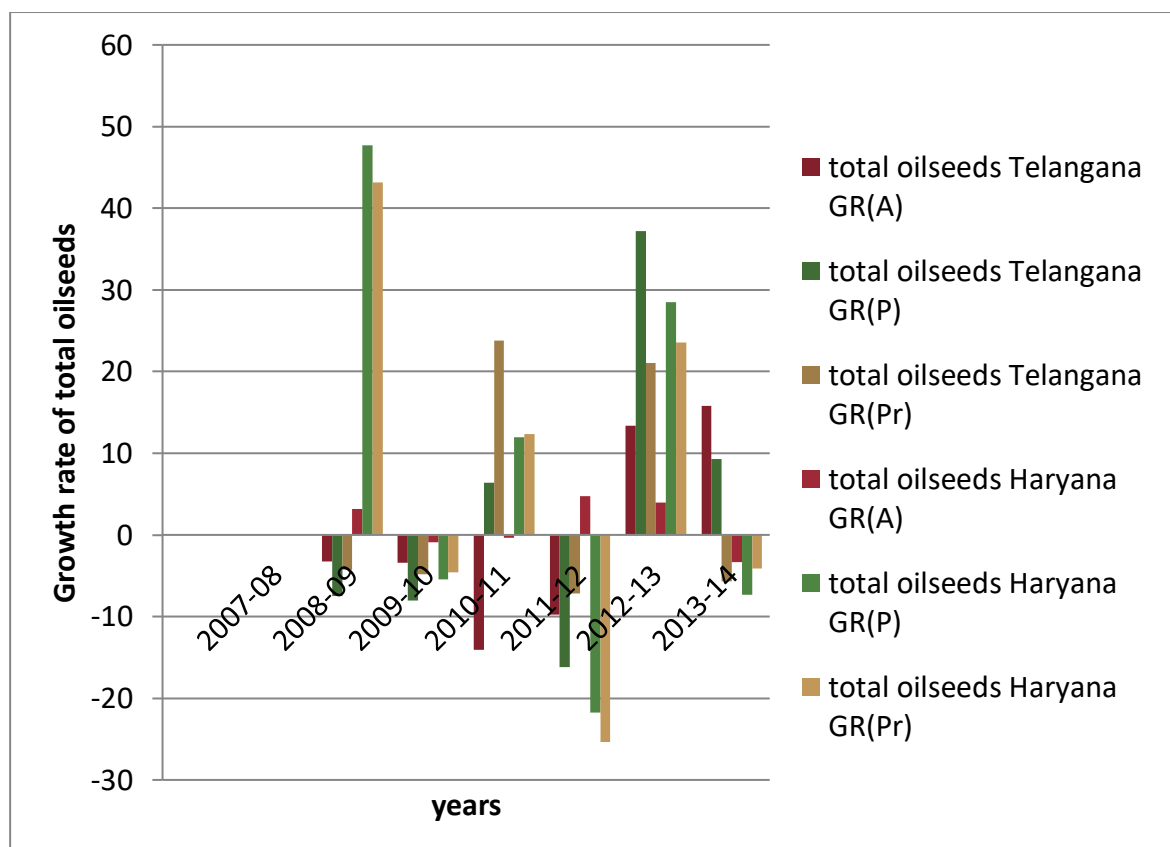


Table No 5.4.11: Growth Rate of Cotton in Telangana and Haryana									
Telangana	Years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	820	785	750	723	644	438	428
	GR(A)	3		-4.27	-4.46	-3.6	-10.93	-31.99	-2.28
	prodn	4	5957	7168	8379	8476	9406	7330	6957
	GR(P)	5		20.33	16.89	1.16	10.97	-22.07	-5.09
	yield	6	7.265	9.131	11.172	11.723	14.606	16.735	16.255
	GR(Pr)	7		25.69	22.35	4.94	24.59	14.58	-2.87
Haryana	area	8	482.5	456.1	505.1	493.3	601.8	592.6	567.8
	GR(A)	9		-5.47	10.74	-2.34	21.99	-1.53	-4.18
	prodn	10	1882	1862	1918	1747	2621	2378	2025
	GR(P)	11		-1.06	3.01	-8.92	50.03	-9.27	-14.84
	yield	12	3.901	4.082	3.797	3.541	4.355	4.013	3.566
	GR(Pr)	13		4.66	-6.99	-6.74	22.98	-7.86	-11.13
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage

Above table no. 5.4.11 represents the growth rate of area, production and productivity of cotton in Telangana and Haryana. It can be observed from the table that in Telangana area of cotton production and its productivity have been negative since 2008-09. Production of cotton in Telangana has gradually decreased from 20.33 per cent of 2008-09 to -5.09 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the fluctuated decrease in the area of production from -5.47 per cent of 2008-09 to -4.18 per cent of 2013-14. Production of cotton in Haryana has decreased from -1.06 per cent to -14.84 per cent of following years respectively. Productivity of cotton has increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of cotton.

Figure No 5.4.11: Growth Rate of Cotton in Telangana and Haryana

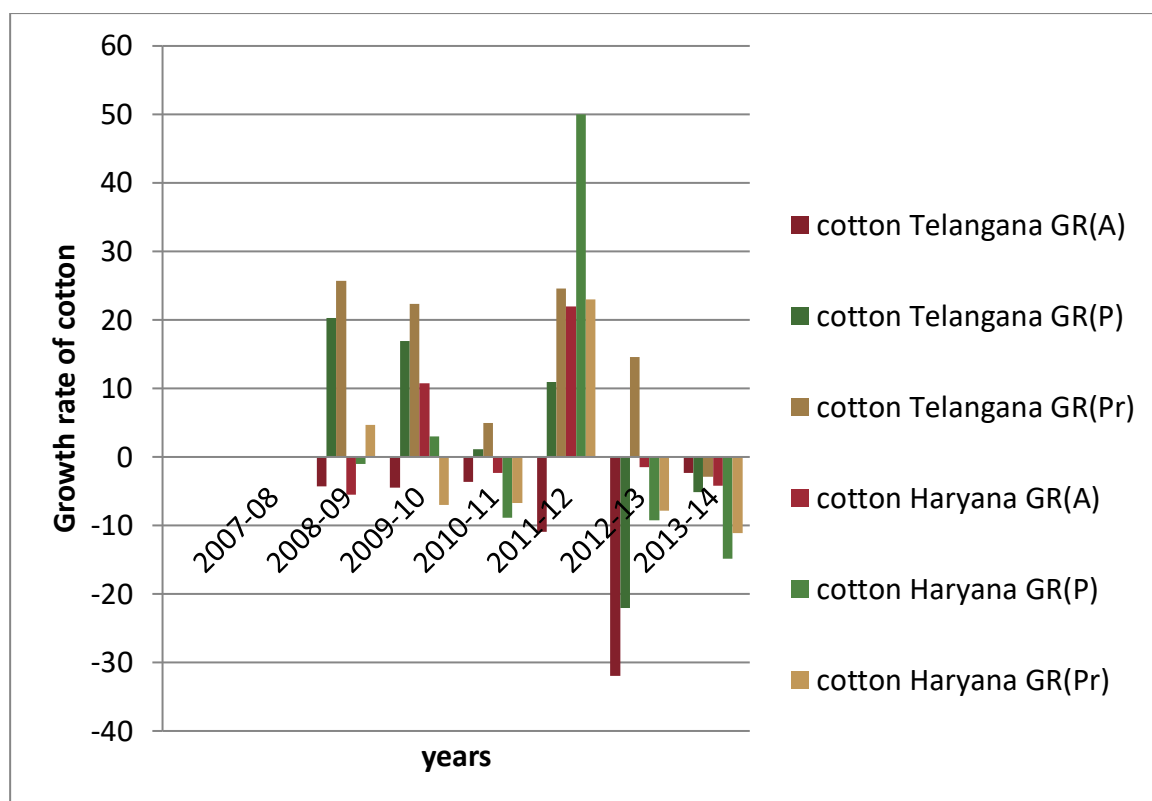


Table No 5.4.12: Growth Rate of Chillies in Telangana and Haryana

		1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
Telangana	years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	79162	81670	84178	77285	89634	82671	78935
	GR(A)	3		3.17	3.07	-8.19	15.98	-7.77	-4.52
	prodn	4	274525	287435	300345	239968	234088	299934	279777
	GR(P)	5		4.7	4.49	-20.1	-2.45	28.13	-6.72
	yield	6	3.468	3.519	3.568	3.105	2.612	3.628	3.544
	GR(Pr)	7		1.49	1.38	-12.98	-15.89	38.92	-2.31
Haryana	area	8	1.3	1.6	0.9	1.1	0.7	0.8	0.7
	GR(A)	9		23.08	-43.75	22.22	-36.36	14.29	-12.5
	prodn	10	13.8	14.5	1.4	11	5.2	8	4.2
	GR(P)	11		5.07	-90.34	685.71	-52.73	53.85	-47.5
	yield	12	10.615	9.063	1.556	10	7.429	10	6
	GR(Pr)	13		-14.63	-82.84	542.86	-25.71	34.62	-40

Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana.

Directorate of Economics and Statistics, Government of Telangana, Hyderabad.

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no. 5.4.12 represents the growth rate of area, production and productivity of chillies in Telangana and Haryana. It can be observed from the table that in Telangana area of chillies production and its productivity have been decreased since 2008-09. Production of chillies in Telangana has partially decreased from 4.70 per cent of 2008-09 to -6.72 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the fluctuation of decrease in the area of production from 23.08 per cent of 2008-09 to -12.50 per cent of 2013-14. Production of chillies in Haryana has gradually decreased from 5.07 per cent to -47.50 per cent of following years respectively. Productivity of chillies has little decreased in Telangana while declaration in productivity of same crop in Haryana has observed. Telangana is less productive with the large area of production of sesamum.

Figure No.5.4.12: Growth Rate of Chillies in Telangana and Haryana

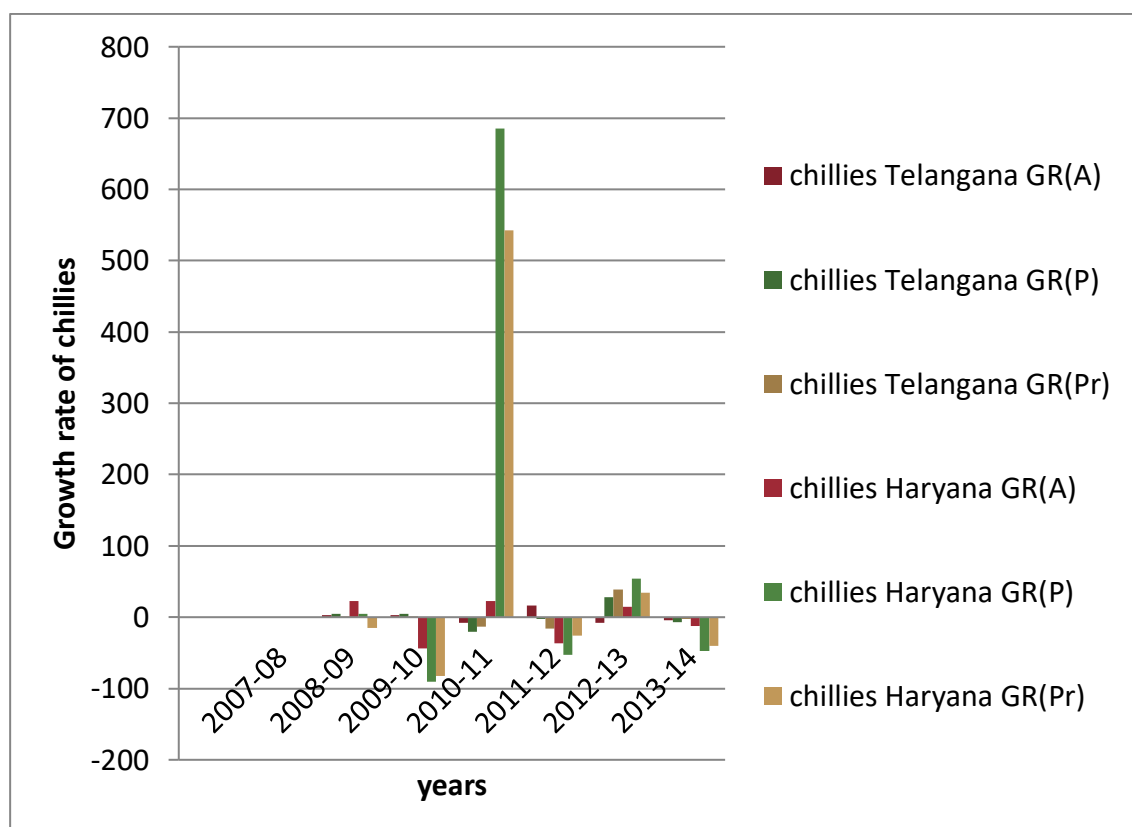


Table No 5.4.13: Growth Rate of Sugarcane in Telangana and Haryana									
Telangana	years	1	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
	area	2	86278	72605	58932	78491	84081	40878	39309
	GR(A)	3		-15.85	-18.83	33.19	7.12	-51.38	-3.84
	Prodn	4	488848	352630	216412	309463	389499	361929	344002
	GR(P)	5		-27.87	-38.63	43	25.86	-7.08	-4.95
	yield	6	5.666	4.857	3.672	3.943	4.632	8.854	8.751
	GR(Pr)	7		-14.28	-24.39	7.36	17.5	91.13	-1.16
Haryana	area	8	140.4	90.5	79.2	84.5	94.8	100.9	101.3
	GR(A)	9		-35.54	-12.49	6.69	12.19	6.43	0.4
	prodn	10	885	520.6	570.7	604	695	744	773
	GR(P)	11		-41.18	9.62	5.83	15.07	7.05	3.9
	yield	12	6.303	5.752	7.206	7.148	7.331	7.374	7.631
	GR(Pr)	13		-8.74	25.26	-0.8	2.56	0.58	3.49
Source: Researcher's Calculations Department of Economic and Statistical Analysis, Haryana. Directorate of Economics and Statistics, Government of Telangana, Hyderabad.									

Note: Area presented in Hectare, Production in tones, Productivity in kg/hectare, Growth rate in Percentage.

Above table no.5.4.13 represents the growth rate of area, production and productivity of sugarcane in Telangana and Haryana. It can be observed from the table that in Telangana area of sugarcane production and its productivity have been decreased since 2008-09. Production of sugarcane in Telangana has partially increased from -27.87 per cent of 2008-09 to -4.95 per cent of 2013-14. While on the other hand the production of same crop in Haryana with the decrease in the area of production from -35.54 per cent of 2008-09 to 0.40 per cent of 2013-14. Production of sugarcane in Haryana has fluctuations and gradually increased from -41.18 per cent to 3.90 per cent of following years respectively. Productivity of sugarcane has little increased in Telangana while declaration in productivity of same crop in Haryana has observed. Telanagana is more productive with the large area of production of sugarcane.

Figure No 5.4.13: Growth Rate of Sugarcane in Telangana and Haryana

