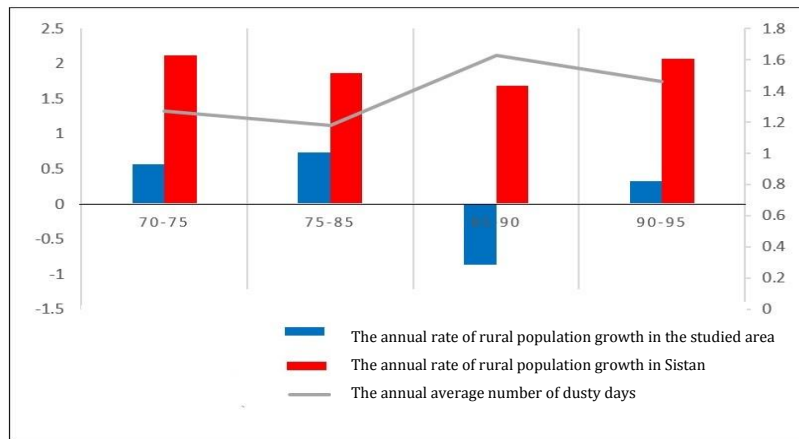


Figure 2) Dust detection on MODIS images in the studied area

Table 2) the rate of rural population annual growth in the studied area and the average number of dusty days

Time period	Annual rural population growth rate		The difference in the province's and the studied area' growth rate	The average number of dusty days in the studied area
	Studied area	Sistan		
1991-1996	0.56	2.12	1.56	126.8
1996-2006	0.74	1.86	1.12	117.7
2006-2011	-0.87	1.68	2.55	163
2011-2016	0.33	2.07	1.74	146.2



Graph 1) the graph of the annual rate of the population growth in rural areas and the province and the average number of dusty days in four time periods

Table 3) the percentage of the annual growth rate of the cities and the average number of dusty days in four time periods

Periods Cities	1991-1996		1996-2006		2006-2011		2011-2016	
	r	n	r	n	r	n	r	n
Bonjar	1.59	126.8	1.91	117.7	1.30	163	2.57	146.2
Adimi	1.23	126.8	1.66	117.7	1.23	163	1.41	146.2
Bazi	1.72	126.8	1.63	117.7	-1.76	163	1.76	146.2
Ghaem Abad	-1.56	126.8	-0.29	117.7	-2.5	163	-1.17	146.2
Sefidabeh	-0.61	126.8	-0.25	117.7	-2.45	163	-0.69	146.2
Lootak	-1.99	126.8	-0.18	117.7	-1.67	163	-0.77	146.2
Mohammad Abad	1.71	126.8	0.96	117.7	-1.59	163	-0.19	146.2
Teymur Abad	1.25	126.8	1.77	117.7	1.17	163	-0.94	146.2
Kuh Khaje	2.16	126.8	0.98	117.7	-2.83	163	-0.60	146.2
Jazinak	0.65	126.8	0.93	117.7	-1.96	163	-1.80	146.2
Khamak	1.59	126.8	1.22	117.7	0.74	163	2.48	146.2
Khaje Ahmad	-1.43	126.8	2.38	117.7	-1.17	163	-1.33	146.2
Zahak	-0.39	126.8	0.83	117.7	-1.93	163	0.82	146.2
Dust Mohammad	0.45	126.8	0.77	117.7	-1.47	163	-1.36	146.2
Margan	2.39	126.8	0.77	117.7	-1.05	163	0.48	146.2
Jahan Abad	1.32	126.8	1.02	117.7	-0.86	163	0.06	146.2
Qorqori+Akbar Abad	0.83	126.8	1.19	117.7	1.10	163	2.06	146.2

R: the annual rate of population growth

N: the number of dusty days

Table 4) the results of correlation coefficient test between two variables

Independent variable	Dependent variable	Number	Correlation coefficient	Significance level
The average number of dusty days	The annual rate of rural population growth in cities	68	-0.480	0.000

Table 5) the destination of emigrated people from the studied area in the period of 2006-2016

The destination of emigrates	2006-2011		2011-2016	
	Number	Percentage	Number	Percentage
The emigrants moved inside the studied area	8005	33.07	4097	15.45
The emigrants moved to other cities in Sistan province	6868	28.37	7387	27.86
The emigrants moved to other cities in other provinces	9328	38.54	15027	56.68
Total number of emigrants in the studied area	24201	100	26511	100