



ENVIS CENTRE, CHANDIGARH

NewsLetter

P a r y a v a r a n - P a t r a

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Chandigarh State of Environment



EDITORIAL

AGRICULTURE AND CROP PRODUCTION : CHANDIGARH

Agriculture is the most important sector of Indian Economy. Indian agriculture sector accounts for 18 per cent of India's gross domestic product (GDP) and provides employment to 50% of the countries workforce. India is the world's largest producer of pulses, rice, wheat, spices and spice products. The Union Territory, Chandigarh has a limited area under agriculture. The agriculture land is being gradually acquired for the expansion of Chandigarh City. The Cultivated area has shrunk from 5441 hectares in 1966 to 1790 hectares (total crop area) in 2017.



Total 680 farming families cultivating this area. Of the 680 families, 468 (68.82%) families hold less than 1 acre of land, 187 (27.5%) families hold between 1 and to 2.5; 17 families (2.5%) hold 2.5 to 5 acres of land and the remaining 8 families (1.17%) hold more than 5 acre of agriculture land.

The main sources of irrigation in the agricultural area of the city are deep-bore tube-wells installed by the Chandigarh Administration and shallow tube-wells installed by individual farmers. The farmers of Union Territory, Chandigarh who keep large number of milch cattle have taken to fodder cultivation to cater to the demand of milch cattle. Therefore, the area under food grain crops are decreasing.

The main food grain in U.T., Chandigarh is wheat, which is sown in nearly 600 hectares and the fodder is sown in about 1200 hectares during both the season. Since the farmers of the city are also using the agriculture produce for their domestic purpose and they are very much aware about the adverse effects of such pesticides. Therefore they avoid to use excess pesticides in their crops. Other than food grains, Chandigarh has very small area under vegetable cropping and fruit trees. Tomato and Onion are grown as commercial vegetables in the city whereas small patches of fruit trees mainly Guava, Mango, Kinnow, Ber and Peach are the main fruits grown in the city.

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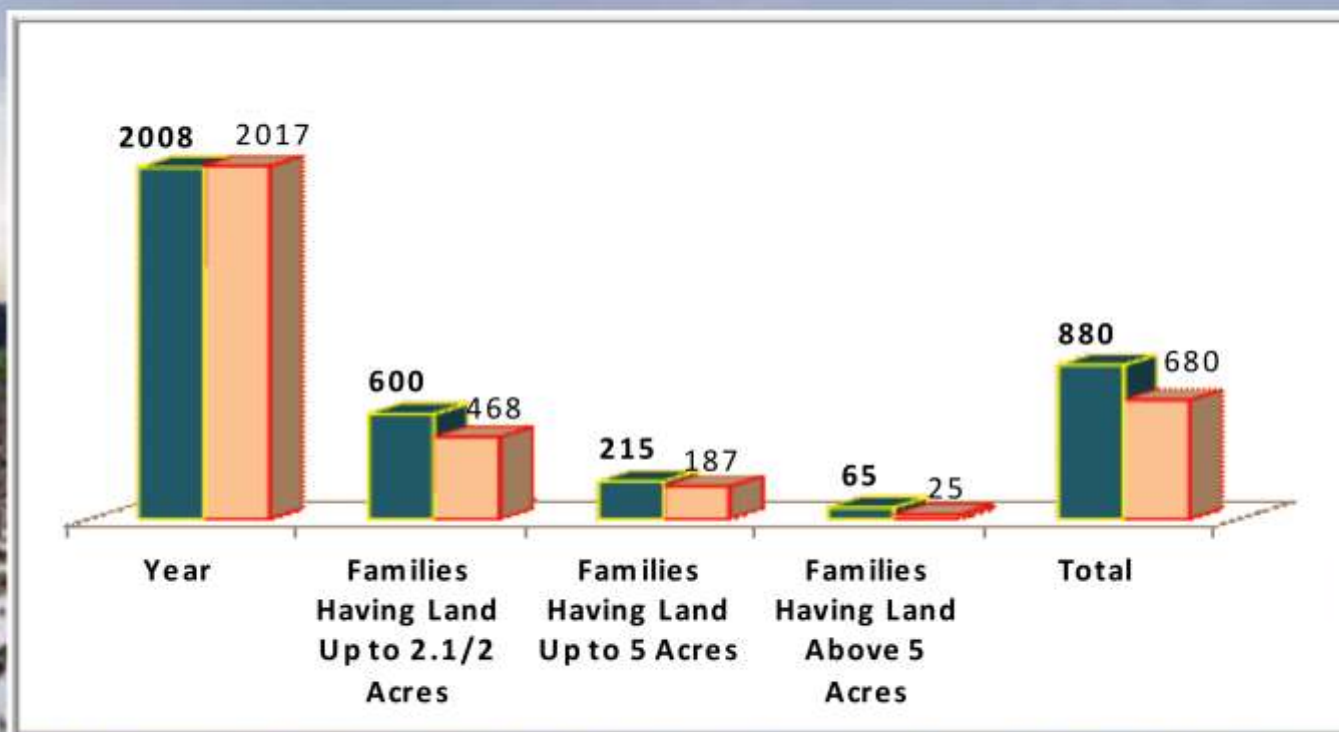
Crop area pattern

Year	Field	Value	Unit
2017-18	Kharif Area	820	Hectares (Ha)
2017-18	Rabi Area	970	Hectares (Ha)
2017-18	Area Under Rice	4	Hectares (Ha)
2017-18	Area Under Wheat	546	Hectares (Ha)
2017-18	Others Vegetables & Fruits	Veg. 34+ Fruit 10 = 44	Hectares (Ha)

Source: Distt. Agri. Officer Sec-17 Chandigarh

The terms 'kharif' and 'rabi' originate from Arabic language where Kharif means autumn and Rabi means spring. The agricultural crop year in India is from July to June. The Indian cropping season is classified into two main seasons-(i) Kharif and (ii) Rabi based on the monsoon. The kharif cropping season is from July –October during the south-west monsoon and the Rabi cropping season is from October-March (winter). The crops grown between March and June are summer crops. Pakistan and Bangladesh are the two other countries that are using the term 'kharif' and 'rabi' to describe about their cropping patterns. The kharif crops include rice, maize, sorghum, pearl millet/bajra, finger millet/ragi (cereals), arhar (pulses), soyabean, groundnut (oilseeds), cotton etc. The rabi crops include wheat, barley, oats (cereals), chickpea/gram (pulses), linseed, mustard (oilseeds) etc.

Agricultural Families



Source: http://chandigarh.nic.in/dept_agri.htm(2008), Tehsildar Revenue U.T. Chandigarh

Yearwise Crop Production

Name of Crop	2017-18	2016-17	2017-16	2016-15	2015-14	2014-13	2013-12	2012-11	2011-10	2010-09	2009-08	Units
Rabi Production	2585	2505	2530	2500	2600	2730	2725	2715	2700	2700	2800	MT
Wheat Production	2585	2585	2530	2500	2600	2730 Estt.	2725	2715	2700	2700	2800	MT
Total Food Grains	2625	2627	2673	-	-	-	-	-	-	-	-	MT
Kharif Production	40	42	143	150	163	162	158	158	165	225	290	MT
Rice Production	40	42	103	100	106	105	103	103	100	100	250	MT
Total Crop Production	2625	2627	2673	2650	2763	2892	2883	2873	2865	2925	3090	MT
Coarse Cereals	-	-	40	50	57	57	55	-	65	-	40	MT
Non food, grain, fruit, vegetable	-	-	-	-	1024 (Veg-791, Fruit-233)	1053 (Veg-806, Fruit-247)	952 (Veg - 700, Fruit- 252)	932 (Veg-660, Fruit-272)	1030 (Veg-760, Fruits-270)	1038 (Veg-760, Fruits - 278)	1067	MT

Source: Distt. Agri. Officer Sec-17 Chandigarh

Agricultural Practices in General

The whole of the agricultural land is irrigated. The main sources of irrigation are deep-bore tube-wells installed by the Chandigarh Administration and shallow tube-wells installed by individual farmers.

The farmers of the Union Territory, Chandigarh keep a large number of milch cattle and have taken to fodder cultivation to cater to the need of 27672 cattle. Therefore, the area under food grain crops is decreasing. The main food grain crop is wheat and it is sown nearly in 600 hectares & fodder is sown nearly in 1250 hectares (Kharif, Rabi and summer crops). The Chandigarh Administration is providing the following facilities to the farmers:-

- Timely supply of inputs like pesticides, fertilizers, seeds and garden tools.
- Supply of adequate irrigation water from the deep-bore tube-wells.
- Arranging of study tours for farmers.
- Distribution of wheat and fodder seeds at 25% discount.

In the Union Territory, Chandigarh the area under agriculture is decreasing due to acquisition of land by the Chandigarh Administration for the development of the city. Farmers of Union Territory Chandigarh have taken to fodder cultivation to cater the demand of the milch cattle kept by them. The farmers are demanding quality seeds for the fodder crop to get better yield of green fodder so that they are able to fulfill the demand of fodder to some extent as the area under agriculture is not even sufficient to meet the domestic requirement of the farmers.

With the distribution of quality seeds of fodder/wheat to U.T. farmers, an area of about 75 hectares will be brought under high yielding varieties of wheat and fodder annually.



Category Wise Crop Area



Year	Paddy	Maize	Wheat	Fodder	Unit
2004-05	100	100	650	1200	Hectare
2005-06	80	60	600	1000	Hectare
2006-07	50	20	600	1000	Hectare
2007-08	50	20	600	1000	Hectare
2008-09	20	60	600	1200	Hectare
2009-10	20	30	600	1200	Hectare
2010-11	20	25	600	1200	Hectare

Source: Distt. Agri. Officer Sec-17 Chandigarh

Yearly Production of Important Crops

Year	Paddy	Maize	Wheat	Unit
2003-04	500	200	3000	Tons
2004-05	400	120	2400	Tons
2005-06	250	40	2750	Tons
2006-07	250	40	2800	Tons
2007-08	250	40	2800	Tons
2008-09	100	125	2700	Tons
2009-10	100	65	2700	Tons
2010-11	103	55	2715	Tons
2011-12	103	55	2725	Tons
2012-13	105	57	2590	Tons
2013-14	106	57	2600	Tons
2014-15	100	50	2500	Tons
2015-16	103	40	2530	Tons
2016-17	42	-	2585	Tons



Source: Statistical Abstract Chandigarh

Market Arrival of Agricultural Crops



Year	Paddy	Maize	Wheat	Unit
2000-01	35.62	0.21	47.65	000,M.Ton
2001-02	26.03	0.23	20.02	000,M.Ton
2002-03	43.01	0.261	15.574	000,M.Ton
2003-04	56.93	0.194	18.01	000,M.Ton
2004-05	31.927	0.114	19.786	000,M.Ton
2005-06	24.32	0.207	25.936	000,M.Ton
2006-07	15.64	-	12.194	000,M.Ton
2007-08	14.58	-	17.95	000,M.Ton
2008-09	19.94	-	13.25	000,M.Ton
2009-10	21.42	-	12.53	000,M.Ton

Source: Distt. Food & Supplies & Consumers, Chandigarh

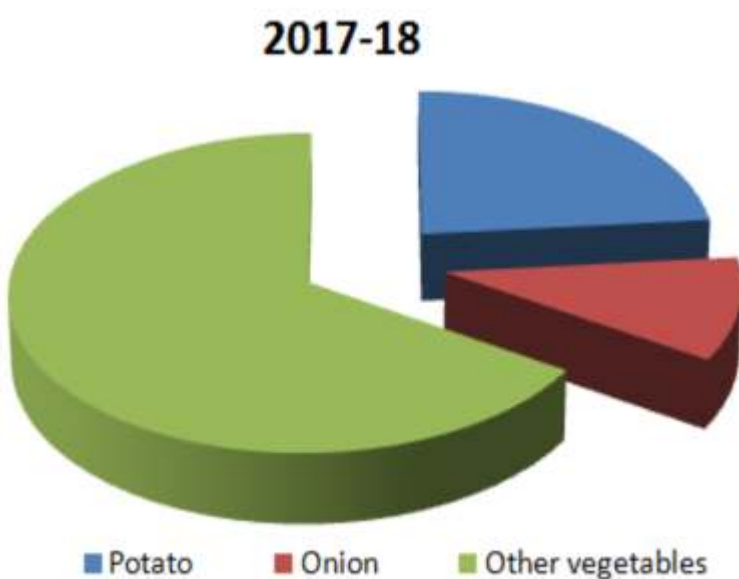
Area under Vegetables



Year	Potato	Onion	Other	Unit
2004-05	40	6	30	Hectare
2005-06	25	5	35	Hectare
2006-07	20	5	35	Hectare
2007-08	10	4	20	Hectare
2008-09	10	2	20	Hectare
2009-10	9	3	20	Hectare
2010-11	8	3	20	Hectare
2011-12	10	2	20	Hectare
2012-13	10	3	22	Hectare
2013-14	10	3	20	Hectare
2014-15	10	3	20	Hectare
2015-16	10	3	20	Hectare
2016-17	12	4	20	Hectare
2017-18	12	4	20	Hectare

Source: Distt. Agri. Officer Sec-17 Chandigarh

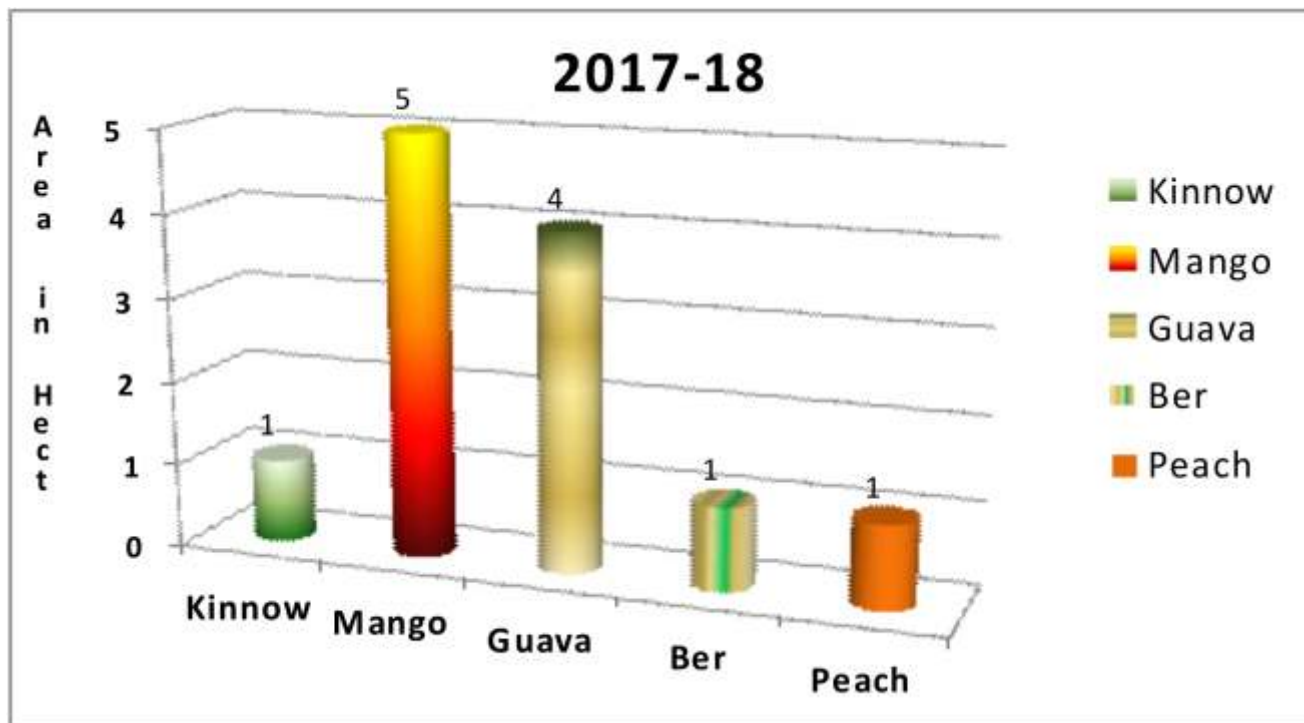
Yearly production of Vegetables



Year	Potato	Onion	Other vegetables	Unit
2004-05	800	105	750	M.T.
2005-06	450	85	1000	M.T.
2006-07	360	85	1000	M.T.
2007-08	160	68	560	M.T.
2008-09	120	35	500	M.T.
2009-10	175	55	500	M.T.
2010-11	160	50	450	M.T.
2011-12	165	35	500	M.T.
2012-13	166	90	550	M.T.
2013-14	166	85	540	M.T.
2014-15	150	80	500	M.T.
2015-16	155	60	525	M.T.
2016-17	188	84	528	M.T.
2017-18	188	84	528	M.T.

Source: Distt. Agri. Officer Sec-17 Chandigarh

Area Under Fruits Cultivation



Source: Distt. Agri. Officer Sec-17 Chandigarh

Yearly Production of Fruits



Year	Kinnow	Mango	Guava	Ber	Peach	Unit
2004-05	62	355	270	25	35	M.T.
2005-06	60	350	225	22	30	M.T.
2006-07	26	200	100	18	16	M.T.
2007-08	8	150	90	15	16	M.T.
2008-09	8	150	90	14	15	M.T.
2009-10	9	155	75	15	16	M.T.
2010-11	8	165	70	14	15	M.T.
2011-12	8	140	75	14	15	M.T.
2012-13	8	135	75	14	15	M.T.
2013-14	8	130	70	12	13	M.T.
2014-15	8	130	70	12	13	M.T.
2015-16	8	135	75	8	12	M.T.
2016-17	8	135	75	8	12	M.T.
2017-18	8	135	75	8	12	M.T.





Dear Information Seeker,

ENVIS CENTRE, Chandigarh furnishes you with the services to collect and disseminate information related to environment of Chandigarh. To share information with us you are requested to fill up the form given below.



Your feedback is valuable to us and will be highly appreciated

- Name _____
- Designation _____
- Department _____
- Address _____
- _____ City _____
- State _____ Country _____ Pin _____
- Phone _____ Fax _____
- Email _____

Your views on scope of improvement :

- Interest Area _____

I would like to have information on following :



**ENVIS CENTRE TEAM**

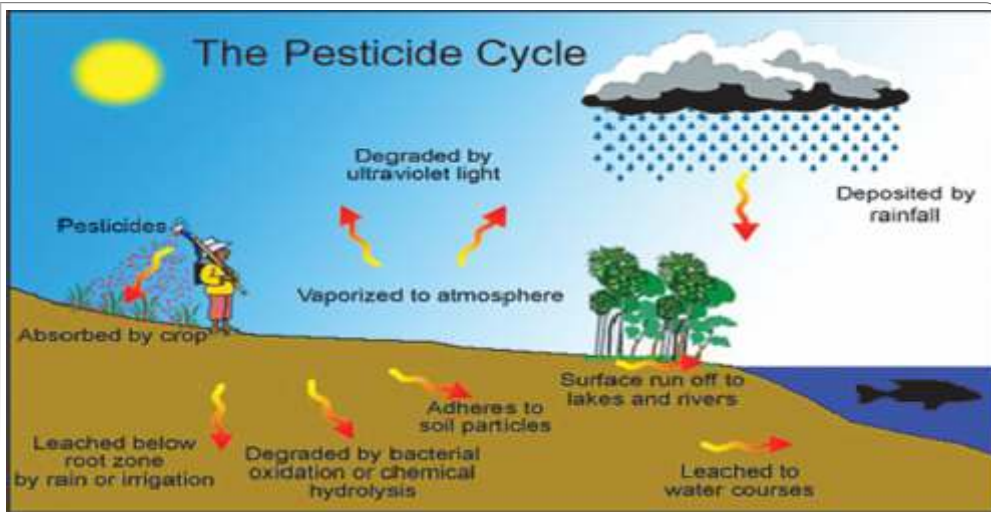
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People in City beautiful are well educated and aware about the extreme health effects of using excessive pesticides and other chemicals in their crops. Thus the annual consumption of all these toxins in Chandigarh is almost negligible. The table shows that the application of pest control and weed eradication chemicals have been reduced with time and drop down to almost half in last decade.

Year	Insecticide	Rodenticide	Weedicides	Fungicides	Unit
2008-09	0.3	0.03	0.01	0.01	M.T
2009-10	0.3	0.03	0.01	0.01	M.T
2010-11	0.22	0.03	0.01	0.01	M.T
2011-12	0.22	0.03	0.01	0.01	M.T
2012-13	0.21	0.02	0.01	0.01	M.T
2013-14	0.21	0.02	0.01	0.01	M.T
2014-15	0.17	0.01	0.01	0.01	M.T
2015-16	0.15	0.02	-	-	M.T
2016-17	0.15	0.02	-	-	M.T
2017-18	0.14	0.02	-	-	M.T
	Nitrogenous(N)	Phosphatic (P)	Potassic (K)		M.T
2015-16	20.25	5.1	0.03		M.T
2016-17	18	4.5	0.03		M.T

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Source: Distt. Agri. Officer Sec-17 Chandigarh

To,

Note : While every care has been taken in compilation of the information available for this newsletter. However, readers must make thorough confirmation/enquiries at their own level before acting upon any data/information provided to the readers. Any discrepancy brought in the notice of ENVIS CENTRE, Chandigarh will be highly appreciated.

