



Cluster Mapping of Agriculture Commodities in Punjab (2023)



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1. Introduction

Agriculture is an important sector of Pakistan's economy, and particularly Punjab province. Punjab contributes significantly to the country's agricultural output. The province is an important agricultural hub and produces a variety of crops, fruits, and vegetables. The main objective of this study is to identify the major clusters of agriculture commodities in province of Punjab, Pakistan. The study focuses on three main categories of commodities: crops, vegetables, and fruits. The data used in this study is collected from the Agriculture Marketing Information Service (AMIS)¹, which is a Government organization responsible for collecting and disseminating agricultural data.

The first category of commodities analysed in this study is crops. Punjab is the largest producer of wheat, rice, and sugarcane in Pakistan. Other major crops grown in the province include maize, cotton, pulses etc. This study has identified the major clusters of these crops in Punjab and examined their production trends.

The second category of commodities analysed in this study is vegetables. Punjab is a major producer of potatoes, onions, tomatoes, and cauliflower. Other vegetables grown in the province include okra, carrot, chilli pepper, peas etc. This study has identified the major clusters of these vegetables in Punjab and examined their production trends.

The third category of commodities analysed in this study is fruits. Punjab is a major producer of citrus fruits, mangoes, and guavas. Other fruits grown in the province include water & musk melon, phalsa, pomegranates, dates etc. This study has identified the major clusters of these fruits in Punjab and examined their production trends.

Through the evaluation of major clusters of agriculture commodities in Punjab, Pakistan, this study provides insights into the trends and patterns of agricultural production in the province. This information will be useful for investors, farmers, and other stakeholders in the agriculture sector.

¹ <http://www.amis.pk/agristatistics/statistics.aspx>

2. Major Clusters of Crops in Punjab

The important crops grown in Punjab include wheat, rice, sugarcane, cotton and maize. The districts of Bahawalnagar, Gujranwala, Rahim Yar Khan, Bahawalpur and Okara are the main crop producing areas. The main clusters of crops in Punjab have been identified in this section below.

2.1 Wheat

Punjab is the largest wheat-producing province in Pakistan, with an average annual production of 19,577 thousand tons over the past five years. The top five wheat-producing districts / clusters in Punjab in view of annual wheat production are as given in the table below;



Table 1: Top Five Wheat Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bahawalnagar	1,133	1,158	1,504	1,587	1,514	1,379
Rahim Yar Khan	818	1,025	1,016	1,037	1,028	985
Bahawalpur	922	860	992	1,003	1,052	966
Jhang	873	867	799	903	811	851
Muzaffargarh	906	909	816	812	736	836

Source: Agriculture Marketing Information Service

2.2 Rice

Rice is one of the major crops cultivated in Punjab, and the province is the largest contributor to Pakistan's overall rice production. The last five year average annual production of rice in Punjab is 4,620 thousand tons. The top five rice-producing districts / clusters in Punjab in view of this annual rice production are as given in the table below;



Table 2: Top Five Rice Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Gujranwala	546	470	484	590	564	531
Sheikhupura	338	377	391	507	483	419
Okara	367	356	354	396	461	387
Hafizabad	339	301	302	342	362	329
Sialkot	265	242	253	335	252	269

Source: Agriculture Marketing Information Service

2.3 Sugarcane

Sugarcane production is an important agricultural activity in the province of Punjab. It is the second-largest crop produced in the region, following wheat. The last five year average annual production of sugarcane in Punjab is 52,913 thousand tons. The top five sugarcane-producing districts / clusters in Punjab in view of this annual sugarcane production are as given in the table below;



Table 3: Top Five Sugarcane Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Rahim Yar Khan	15,009	12,825	11,724	13,571	17,401	14,106
Faisalabad	6,413	5,220	4,572	6,364	6,357	5,785
Sargodha	3,772	3,365	3,461	4,641	4,762	4,000
Jhang	3,264	2,473	2,572	4,098	5,352	3,552
Muzaffargarh	4,182	3,136	2,882	3,695	3,812	3,541

Source: Agriculture Marketing Information Service, Punjab

2.4 Cotton

Punjab is the largest cotton-producing province in Pakistan, and accounts for around 70% of the total cotton production in the country. The last five year average annual production of cotton in Punjab is 6,284 thousand bales. The top five cotton-producing districts / clusters in Punjab in view of this annual cotton production are as given in the table below;



Table 4: Top Five Cotton Producing Districts in Punjab

Districts	Annual Production (Thousand Bales)					Average Annual Production 2017-18 to 2021-22 (Thousand Bales)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bahawalpur	1,125	992	995	861	871	969
Bahawalnagar	867	686	821	994	1,024	878
Rahim Yar Khan	612	675	825	617	736	693
Lodhran	692	676	501	439	469	556
Khanewal	769	623	473	337	334	507

Source: Agriculture Marketing Information Service, Punjab

2.5 Maize

Maize is an important crop in the province of Punjab, and the largest producer of maize in the country. It is grown extensively in both irrigated and rain-fed areas of the province, with a last five year average annual production of 6,921 thousand tons. The top five maize-producing districts / clusters in Punjab in view of this annual maize production are as given in the table below;



Table 5: Top Five Maize Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Okara	1,014	1,059	1,295	1,229	1,156	1,151
Vehari	484	697	1,111	1,601	1,731	1,125
Pakpattan	936	993	988	1,192	1,231	1,068
Sahiwal	645	714	703	840	846	750
Kasur	415	503	537	605	664	545

Source: Agriculture Marketing Information Service, Punjab

2.6 Gram

Gram, also known as chickpea, is one of the major crops grown in Punjab. The last five year average annual production of gram in Punjab is 296 thousand tons. The top five gram-producing districts / clusters in Punjab in view of this annual gram production are as given in the table below;



Table 6: Top Five Gram Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bhakkar	97	177	189	65	115	129
Khushab	57	96	100	37	57	69
Layyah	62	53	62	29	33	48
Jhang	18	20	49	10	20	23
Mianwali	6	10	13	8	9	9

Source: Agriculture Marketing Information Service, Punjab

2.7 Canola

Canola is a crop that can be grown successfully in the Punjab province, as it requires relatively low amounts of water and can tolerate moderate heat. The last five year average annual production of canola in Punjab is 50,874 tons. The top five canola-producing districts / clusters in Punjab in view of this annual canola production are as given in the table below;



Table 7: Top Five Canola Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Mianwali	1,633	2,706	23,477	19,912	27,528	15,051
Faisalabad	3,211	3,713	12,542	2,956	4,491	5,383
Bhakkar	1,852	3,710	3,388	7,430	7,765	4,829
Sahiwal	480	1,347	5,511	1,628	4,147	2,623
Muzaffargarh	1,876	3,250	931	1,208	4,740	2,401

Source: Agriculture Marketing Information Service, Punjab

2.8 Sesamum

Sesamum, also known as sesame, is an important oilseed crop that is grown in Punjab. The crop is sown in both the Kharif and Rabi seasons. The last five year average annual production of sesamum in Punjab is 63,594 tons. The top five sesamum-producing districts / clusters in Punjab in view of this annual sesamum production are as given in the table below;



Table 8: Top Five Sesamum Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Layyah	4,217	4,656	10,394	30,116	33,517	16,580
Faisalabad	2,082	2,144	8,160	11,463	8,743	6,518
Okara	1,757	2,578	5,035	6,914	10,287	5,314
Muzaffargarh	2,000	1,760	4,275	8,912	8,352	5,060
Bahawalnagar	2,440	2,390	3,941	5,143	6,629	4,109

Source: Agriculture Marketing Information Service, Punjab

2.9 Bajra

Bajra, also known as pearl millet, is an important crop in Punjab province. It is grown mostly in the southern districts of the province. The last five-year average annual production of bajra in Punjab is 277 thousand tons. The top five bajra-producing districts / clusters in Punjab in view of this annual bajra production are as given in the table below;



Table 9: Top Five Bajra Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bhakkar	54	58	62	39	37	50
Layyah	32	37	34	42	15	32
Gujrat	27	27	27	26	45	30
Mianwali	13	18	20	17	21	18
Narowal	19	19	19	7	9	15

Source: Agriculture Marketing Information Service, Punjab

2.10 Jowar

Jowar, also known as sorghum, is a versatile cereal crop that thrives in the Punjab's favourable climatic conditions. The last five-year average annual production of jowar in Punjab is 86 thousand tons. The top five jowar-producing districts / clusters in Punjab in view of this annual jowar production are as given in the table below;



Table 10: Top Five Jowar Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bahawalnagar	10	11	7	4	0	7
M.B. Din	10	10	6	4	2	6
Khushab	8	9	7	4	0	6
Rawalpindi	9	8	8	3	0	5
Muzaffargarh	7	7	7	4	0	5

Source: Agriculture Marketing Information Service, Punjab

2.11 Groundnut

Groundnut, also known as peanut, is an important crop in Punjab. The last two year average annual production of ground nut in Punjab is 126,254 tons. The top five groundnut producing districts / clusters in Punjab in view of this annual ground nut production are as given in the table below;



Table 11: Top Five Groundnut Producing Districts in Punjab

Districts	Annual Production (Tons)		Average Annual Production 2020-21 to 2021-22 (Tons)
	2020-2021	2021-2022	
Chakwal	59,554	66,655	63,105
Attock	26,186	33,477	29,832
Mianwali	13,308	16,911	15,110
Khushab	7,573	11,706	9,640
Rawalpindi	5,840	6,254	6,047

Source: Agriculture Marketing Information Service, Punjab

2.12 Moong Pulses

Moong pulse is also an important crop in Punjab. The last five year average annual production of moong pulses in Punjab is 155,662 tons. The top five moong pulses-producing districts / clusters in Punjab in view of this annual moong pulses production are as given in the table below;



Table 12: Top Five Moong Pulses Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bhakkar	50,131	50,834	45,035	68,431	82,198	59,326
Mianwali	24,253	25,385	30,902	59,472	80,045	44,011
Layyah	25,047	22,342	8,645	25,614	36,703	23,670
RajanPur	4,769	5,297	2,400	15,816	16,845	9,025
Muzaffargarh	2,903	1,778	16,898	1,170	4,957	5,541

Source: Agriculture Marketing Information Service, Punjab

2.13 Guar Seed

Guar seed cultivation is also present in Punjab, with an average annual production of 30,492 tons in the last five years. The top five guar seed-producing districts / clusters in Punjab in view of this annual guar seed production are as given in the table below;



Table 13: Top Five Guar Seed Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Bhakkar	10,621	10,614	17,002	9,409	5,761	10,681
Mianwali	4,381	6,985	7,435	4,267	7,461	6,106
Layyah	8,580	9,740	6,425	86	47	4,976
Khushab	5,267	4,180	4,702	4,973	3,314	4,487
D.G. Khan	2,328	1,720	1,287	3,140	476	1,790

Source: Agriculture Marketing Information Service, Punjab

2.14 Mash Pulses

Mash pulses are an important crop in the agricultural sector of Punjab. The last five year average annual production of mash pulses in Punjab is 2,384 tons. The top five mash pulses-producing districts / clusters in Punjab in view of this annual mash pulses production are as given in the table below;



Table 14: Top Five Mash Pulses Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Narowal	1,192	1,281	1,182	857	409	984
Rawalpindi	890	1021	830	132	0	575
Sialkot	636	440	521	264	0	372
Chakwal	204	134	125	26	0	98
Jhelum	101	96	78	113	25	83

Source: Agriculture Marketing Information Service, Punjab

3. Major Clusters of Vegetables in Punjab

Punjab is a major producer of vegetables, including tomatoes, onions, potatoes, and cauliflower. The districts of Lahore, Gujranwala, and Kasur are the major vegetable producing areas. Some of the major clusters of vegetable commodities in Punjab, Pakistan are as below;

3.1 Potato

Punjab is one of the major potato-producing regions in the country. Punjab's potato production is largely concentrated in its central and northern regions. The last five year average annual production of potato in Punjab is 5,377 thousand tons. The top five potato-producing districts / clusters in Punjab in view of this annual potato production are as given in the table below;



Table 15: Top Five Potato Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Okara	1,400	1,555	1,461	1,595	2,218	1,646
Pakpattan	672	685	623	909	1,426	863
Sahiwal	659	708	678	810	1,013	774
Kasur	496	488	461	738	935	624
Khanewal	186	187	192	331	414	262

Source: Agriculture Marketing Information Service, Punjab

3.2 Onion

Punjab is the leading onion producing province in the country. The last five year average annual production of onion in Punjab is 449 thousand tons. Onion production in Punjab is mostly concentrated in the southern part of the province. The top five onion-producing districts / clusters in Punjab in view of this annual onion production are as given in the table below;



Table 16: Top Five Onion Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
RajanPur	83	63	38	55	46	57
Lodhran	34	27	71	66	28	45
Multan	26	28	53	66	42	43
Rahim Yar Khan	29	27	27	78	25	37
Bahawalpur	28	27	34	47	18	31

Source: Agriculture Marketing Information Service, Punjab

3.3 Carrot

Punjab is one of the major carrot-producing provinces in Pakistan; with an average annual production of 262 thousand tons in last five years. The top five carrot-producing districts / clusters in Punjab in view of this annual carrot production are as given in the table below;



Table 17: Top Five Carrot Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Faisalabad	6	6	4	118	104	48
Kasur	11	13	1	50	44	24
Muzaffargarh	3	3	17	31	56	22
Sheikhupura	27	28	4	19	24	20
Nankana Sahib	14	14	3	28	24	17

Source: Agriculture Marketing Information Service, Punjab

3.4 Tomato

Punjab is one of the major tomato-producing provinces in Pakistan; with an average annual last five year production of 138 thousand tons. The top five tomato-producing districts / clusters in Punjab in view of this annual tomato production are as given in the table below;



Table 18: Top Five Tomato Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Sheikhupura	21	26	36	22	37	28
Khushab	16	18	42	26	21	25
Muzaffargarh	16	26	22	30	12	21
Vehari	2	11	4	7	7	6
Multan	2	2	6	10	8	5

Source: Agriculture Marketing Information Service, Punjab

3.5 Cauliflower

Cauliflower is an important vegetable crop grown in Punjab, with an average annual production of 174,563 tons over the past five years. The top five cauliflower-producing districts / clusters in Punjab in view of this annual cauliflower production are as given in the table below;



Table 19: Top Five Cauliflower Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Faisalabad	2,581	2,613	22,331	59,508	28,563	23,119
Gujranwala	11,864	11,699	1,716	18,486	13,874	11,528
Vehari	9,801	9,855	5,414	8,523	19,726	10,664
Sheikhupura	3,198	3,283	14,359	11,940	19,673	10,491
Kasur	4,351	3,439	5,608	22,127	14,368	9,979

Source: Agriculture Marketing Information Service, Punjab

3.6 Peas

Punjab is a major producer of peas, which are an important legume crop grown in the region. On average, Punjab produced 3,854 tons annually of peas over the past four years. The top five peas-producing districts / clusters in Punjab in view of this annual peas production are as given in the table below;



Table 20: Top Five Peas Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Sahiwal	2,084	649	608	551	973
Chiniot	1,423	196	505	530	664
Okara	419	391	553	555	480
T.T. Singh	701	262	77	54	274
Pakpattan	264	315	166	158	226

Source: Agriculture Marketing Information Service, Punjab

3.7 Cabbage

Cabbage production in Punjab is a major agricultural activity, with the crop being grown on a large scale throughout the province. The last four year average annual production of cabbage in Punjab is 73,357 tons. The top five cabbage-producing districts / clusters in Punjab in view of this annual cabbage production are as given in the table below;



Table 21: Top Five Cabbage Producing Districts in Punjab

Districts	Annual Production (Tonnes)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Sheikhupura	2,610	31,614	32,924	44,579	27,932
Bahawalpur	1,952	12,018	12,194	7,800	8,491
Lahore	1,685	1,662	8,346	6,101	4,449
Gujranwala	4,197	5,501	3,120	2,638	3,864
Okara	2,412	4,491	2,643	4,867	3,603

Source: Agriculture Marketing Information Service, Punjab

3.8 Chilli Pepper

Chilli pepper production is an important agricultural activity in Punjab, Pakistan. The major chilli varieties grown in the region include Sannam, Dandicut, and Bird's Eye chilli. The last five year average annual production of chilli pepper in Punjab is 15,142 tons. The top five chilli pepper-producing districts / clusters in Punjab in view of this annual chilli pepper production are as given in the table below;



Table 22: Top Five Chilli Pepper Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Multan	2,198	2,353	2,326	2,595	12,348	4,364
Lodhran	2,030	1,882	1,937	6,301	6,599	3,750
Bahawalpur	502	534	606	1,196	2,368	1,041
Pakpattan	1,173	1,254	1,133	82	17	732
RajanPur	28	36	224	1,686	1,324	660

Source: Agriculture Marketing Information Service, Punjab

3.9 Okra

Okra, also known as lady's fingers, is a popular vegetable crop grown in Punjab, Pakistan. The last four year average annual production of okra in Punjab is 136,761 tons. The top five okra-producing districts / clusters in Punjab in view of this annual okra production are as given in the table below;



Table 23: Top Five Okra Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
T.T. Singh	6,857	7,604	37,758	37,162	22,345
Multan	2,616	2,686	27,346	44,007	19,164
Nankana Sahib	3,620	3,782	11,102	16,018	8,631
Khanewal	6,537	5,601	12,905	7,350	8,098
Sheikhupura	8,190	6,010	9,309	6,876	7,596

Source: Agriculture Marketing Information Service, Punjab

3.10 Spinach

Spinach is a leafy green vegetable that is widely cultivated in Punjab, and it is an important source of nutrition for the local population. Over the past four years, Punjab has produced an average of 37,022 tons annually of spinach. The top five spinach-producing districts / clusters in Punjab in view of this annual spinach production are as given in the table below;



Table 24: Top Five Spinach Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Faisalabad	4,753	1,753	2,911	4,024	2,688
Rahim Yar Khan	6,710	1,073	3,675	1,834	2,658
Bahawalpur	5,236	1,514	6,068	30	2,570
Vehari	4,285	1,078	767	5,346	2,295
Kasur	872	1,890	1,486	5,971	2,044
Sargodha	4,617	619	2,406	1,337	1,796

Source: Agriculture Marketing Information Service, Punjab

3.11 Radish

Punjab is one of the major radish producing provinces in Pakistan due to its suitable climate and fertile soil. The major varieties of radish grown in Punjab include the round, long, and white radish. On average, Punjab produces 69,989 tons of radish per year in the past four years. The top five radish-producing districts / clusters in Punjab in view of this annual radish production are as given in the table below;



Table 25: Top Five Radish Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Gujranwala	6,683	15,617	8,325	3,892	8,629
Kasur	741	1,299	6,240	16,608	6,222
Sahiwal	9,911	3,341	2,078	2,429	4,440
Vehari	9,574	1,583	1,406	4,873	4,359
Multan	4,573	901	4,166	5,980	3,905

Source: Agriculture Marketing Information Service, Punjab

3.12 Brinjal

Brinjal, also known as eggplant, is an important vegetable crop grown in Punjab. The last four year average annual production of brinjal in Punjab is 60,602 tons. The top five brinjal-producing districts / clusters in Punjab in view of this annual brinjal production are as given in the table below;



Table 26: Top Five Brinjal Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Kasur	5,188	4,992	3,493	12,194	6,467
Faisalabad	4,550	5,272	4,813	3,330	4,491
Multan	2,478	2,630	6,851	4,894	4,213
Sheikhupura	1,839	1,862	8,435	4,473	4,152
Rahim Yar Khan	6,550	6,650	628	1,794	3,906

Source: Agriculture Marketing Information Service, Punjab

3.13 Cucumber

Cucumber is also growing in Punjab province. The last four year average annual production of cucumber in Punjab is 47,465 tons. The top five cucumber-producing districts / clusters in Punjab in view of this annual cucumber production are as given in the table below;



Table 27: Top Five Cucumber Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Okara	5,495	6,045	3,829	6,988	5,589
Bahawalpur	2,420	5,058	2,525	12,261	5,566
Lodhran	6,940	7,090	2,766	3,070	4,967
Pakpattan	7,542	7,606	1,099	714	4,240
Rahim Yar Khan	5,220	10,750	-	-	3,993

Source: Agriculture Marketing Information Service, Punjab

3.14 Arum

Arum production in Punjab, Pakistan has emerged as a significant agricultural activity in recent years. The last four year average annual production of arum in Punjab is 62,406 tons. The top five arum-producing districts / clusters in Punjab in view of this annual arum production are as given in the table below;



Table 28: Top Five Arum Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Kasur	5,874	6,009	19,254	54,899	21,509
Multan	2,613	2,550	9,613	39,939	13,679
Okara	1,339	1,091	6,592	21,037	7,515
Khanewal	89	205	7,252	21,941	7,372
Muzaffargarh	243	181	6,537	11,671	4,658

Source: Agriculture Marketing Information Service, Punjab

3.15 Turmeric

Turmeric is also growing in the Punjab province. The last five year average annual production of turmeric in Punjab is 81,981 tons. The top five turmeric-producing districts / clusters in Punjab in view of this annual turmeric production are as given in the table below;



Table 29: Top Five Turmeric Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Kasur	61,664	61,024	63,856	101,388	94,582	76,503
Okara	5,951	5,313	5,326	4,099	4,983	5,134
Nankana Sahib	272	291	294	-	-	286
Narowal	81	97	82	-	-	85
Lahore	93	62	43	-	-	74

Source: Agriculture Marketing Information Service, Punjab

3.16 Garlic

Garlic cultivation has become an important cash crop for farmers in Punjab province. The last five year average annual production of garlic in Punjab is 43,997 tons. The top five garlic-producing districts / clusters in Punjab in view of this annual garlic production are as given in the table below;



Table 30: Top Five Garlic Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Layyah	539	533	8,762	9,321	7,941	5,419
Sahiwal	999	918	6,394	9,253	5,276	4,568
Attock	1,987	2,017	995	8,468	7,378	4,169
Faisalabad	1,511	1,538	1,750	5,224	4,153	2,835
Kasur	1,828	1,066	1,211	4,107	3,045	2,251

Source: Agriculture Marketing Information Service, Punjab

3.17 Beans

Beans production in Punjab, Pakistan holds significant importance in the agricultural sector of the region. The last four year average annual production of beans in Punjab is 4,133 tons. The top five beans-producing districts / clusters in Punjab in view of this annual beans production are as given in the table below;



Table 31: Top Five Beans Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Sheikhupura	136	143	-	2,259	635
Bahawalpur	20	16	1,298	592	482
Faisalabad	32	34	-	1,508	394
Layyah	-	-	1,375	-	1,375
Kasur	-	-	-	1,317	1,317

Source: Agriculture Marketing Information Service, Punjab

3.18 Long Melon

Punjab also produces long melon. The average annual production in last four is 2,513 tons. The top five long melon-producing districts / clusters in Punjab in view of this annual long melon production are as given in the table below;



Table 32: Top Five Long Melon Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Rahim Yar Khan	1,518	403	395	358	669
Sargodha	353	399	213	182	287
Khanewal	82	72	338	300	198
Sahiwal	121	96	294	267	195
Faisalabad	183	183	140	116	156

Source: Agriculture Marketing Information Service, Punjab

3.19 Pumpkin

Pumpkin is also a major vegetable in the Punjab province. The last four year average annual production of pumpkin in Punjab is 17,464 tons. The top five pumpkin-producing districts / clusters in Punjab in view of this annual pumpkin production are as given in the table below;



Table 33: Top Five Pumpkin Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021-22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Rahim Yar Khan	5,000	5,197	-	-	5,100
Khanewal	4,755	4,873	26	134	2,447
Faisalabad	3,651	3,674	-	-	3,600
Gujrat	204	196	3,763	2,256	1,605
Layyah	81	56	5,368	-	1,376

Source: Agriculture Marketing Information Service, Punjab

3.2 Green Chillies

Green chilli production in Punjab, Pakistan, has witnessed significant growth and has become an essential component of the agricultural landscape. The last two year average annual production of green chillies in Punjab is 113,677 tons. The top five green chillies-producing districts / clusters in Punjab in view of this annual green chillies production are as given in the table below;



Table 34: Top Five Green Chillies Producing Districts in Punjab

Districts	Annual Production (Tons)		Average Annual Production 2020-21 to 2021-22 (Tons)
	2020-21	2021-22	
Multan	16,216	21,618	18,917
Bahawalpur	12,379	15,756	14,068
Muzaffargarh	7,496	12,312	9,904
Jhang	11,827	2,010	6,919
Kasur	13,658	158	6,908

Source: Agriculture Marketing Information Service, Punjab

3.21 Bitter Gourd

Bitter gourd, also known as karela, is an important vegetable crop in Punjab, Pakistan. The last four year average annual production of bitter gourd in Punjab is 59,407 tons. The top five bitter gourd-producing districts / clusters in Punjab in view of this annual bitter gourd production are as given in the table below;



Table 35: Top Five Bitter Gourd Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021- 22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Vehari	4,301	3,979	2,717	30,236	10,308
Faisalabad	6,057	6,132	11,663	15,082	9,734
Kasur	3,432	4,188	7,011	11,484	6,529
Okara	1,538	1,698	3,076	11,381	4,423
T.T. Singh	4,106	5,870	2,930	4,174	4,270

Source: Agriculture Marketing Information Service, Punjab

3.22 Lufa

Lufa, also known as ridge gourds or torai. Farmers in Punjab have recognized the potential of lufa farming, and it has become a popular cash crop in the region. The last four year average annual production of lufa in Punjab is 65,423 tons. The top five lufa-producing districts / clusters in Punjab in view of this annual lufa production are as given in the table below;



Table 36: Top Five Lufa Producing Districts in Punjab

Districts	Annual Production (Tons)				Average Annual Production 2018-19 to 2021- 22 (Tons)
	2018-19	2019-20	2020-21	2021-22	
Faisalabad	151	151	40,112	13,944	13,590
Muzaffargarh	292	297	10,164	16,719	6,868
Sargodha	401	441	15,923	2,838	4,901
Kasur	1,310	1,247	7,822	9,072	4,863
Bahawalpur	2,393	3,393	6,252	4,568	4,152

Source: Agriculture Marketing Information Service, Punjab

4. Major Clusters of Fruits in Punjab

Punjab is also known for its fruit production, including mangoes, citrus fruits, guava etc. The districts of Multan, Bahawalpur, and Rahim Yar Khan are the major fruit producing areas in Punjab. Below are some of the major clusters of fruit commodities in Punjab;

4.1 Mango

Punjab is the largest producer of mangoes in Pakistan. Over the past five years, Punjab has produced an average of 1,347 thousand tons annually of mango. The top five mango-producing districts / clusters in Punjab in view of this annual mango production are as given in the table below;



Table 37: Top Five Mango Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Multan	400	411	398	447	482	427
Muzaffargarh	260	370	382	376	418	361
Rahim Yar Khan	310	233	218	182	243	237
Khanewal	173	186	182	201	187	186
Bahawalpur	61	37	38	21	23	36

Source: Agriculture Marketing Information Service, Punjab

4.2 Citrus Fruits

Punjab is also a major producer of citrus fruits, including oranges, mandarins, and grapefruits, with an average annual production of 2,366 thousand tons over the past five years. The top five citrus fruits-producing districts / clusters in Punjab in view of this annual citrus fruits production are as given in the table below;



Table 38: Top Five Citrus Fruits Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Sargodha	1,164	1,332	1,198	1,249	1,121	1,213
T.T. Singh	322	274	330	305	192	285
M.B. Din	134	122	131	145	141	135
Khanewal	98	100	98	108	97	100
Bhakkar	35	42	108	125	121	86

Source: Agriculture Marketing Information Service, Punjab

4.3 Guava

Guava production in the Punjab, Pakistan, has emerged as a significant agricultural activity due to the region's favourable climate and soil conditions. Over the past five years, Punjab has produced an average of 503 thousand tons annually of guava. The top five guava-producing districts / clusters in Punjab in view of this annual guava production are as given in the table below;



Table 39: Top Five Guava Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Sheikhupura	76	93	157	128	121	115
Nankana Sahib	61	61	105	88	90	81
Faisalabad	39	30	40	43	43	39
Kasur	42	42	44	21	19	34
Sahiwal	31	34	41	21	37	33

Source: Agriculture Marketing Information Service, Punjab

4.4 Water and Musk Melon

Water and Musk Melon production in Punjab, Pakistan has seen significant growth and development in recent years. The last five year average annual production of water & musk melon fruits in Punjab is 909 thousand tons. The top five water & musk melon-producing districts / clusters in Punjab in view of this annual water & musk melon production are as given in the table below;



Table 40: Top Five Water & Musk Melon Producing Districts in Punjab

Districts	Annual Production (Thousand Tons)					Average Annual Production 2017-18 to 2021-22 (Thousand Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Gujranwala	5	5	5	567	169	150
Hafizabad	8	8	9	183	186	79
Chiniot	19	22	29	220	45	67
Sheikhupura	5	5	5	177	107	60
Faisalabad	4	3	3	94	159	52

Source: Agriculture Marketing Information Service, Punjab

4.5 Pomegranate

Pomegranate is an important fruit in the province of Punjab. The last five year average annual production of pomegranate in Punjab is 7,543 tons. The top five pomegranate-producing districts / clusters in Punjab in view of this annual pomegranate production are as given in the table below;



Table 41: Top Five Pomegranates Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Muzaffargarh	3,398	3,396	3,378	902	662	2,347
Rahim Yar Khan	695	715	698	3,305	3,665	1,816
Multan	2,669	2,507	2,551	375	402	1,701
Lodhran	80	81	81	682	972	379
Okara	501	505	512	16	16	310

Source: Agriculture Marketing Information Service, Punjab

4.6 Dates

Dates production in Punjab, Pakistan is a significant agricultural industry that thrives due to the region's favourable climatic conditions and fertile soil. Punjab's warm and arid climate, with hot summers and mild winters, provides an ideal environment for the cultivation of dates. The last five year average annual production of dates in Punjab is 24,343 tons. The top five dates-producing districts / clusters in Punjab in view of this annual dates production are as given in the table below;



Table 42: Top Five Dates Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Muzaffargarh	26,450	26,506	26,505	280	387	3,205
Bahawalpur	2,996	3,027	4,833	269	207	453
Bhakkar	3,306	3,464	2,352	317	486	397
Multan	778	723	694	887	966	162
Jhang	1,530	1,226	603	212	461	161

Source: Agriculture Marketing Information Service, Punjab

4.7 Phalsa

Phalsa, scientifically known as *grewia asiatica*, is a small berry-like fruit known for its refreshing taste and numerous health benefits. The last five year average annual production of phalsa in Punjab is 3,209 tons. The top five phalsa-producing districts / clusters in Punjab in view of this annual phalsa production are as given in the table below;



Table 43: Top Five Phalsa Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Multan	561	604	705	348	1,142	672
Vehari	269	319	355	731	1,173	569
Bahawalpur	232	233	525	904	679	515
Lodhran	127	136	143	561	1,101	414
Kasur	463	467	482	48	50	302

Source: Agriculture Marketing Information Service, Punjab

4.8 Litchi

Punjab is also produce litchi, with an average annual production of 2,017 tons over the past five years. The top five litchi-producing districts / clusters in Punjab in view of this annual litchi production are as given in the table below;



Table 44: Top Five Litchi Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Sheikhupura	691	644	644	236	734	590
Kasur	840	840	824	49	112	533
Sahiwal	118	121	118	806	76	248
Nankana Sahib	-	239	269	292	170	194
Multan	37	34	36	372	254	147

Source: Agriculture Marketing Information Service, Punjab

4.9 Jaman

Punjab is also a major producer of jaman, with an average annual production of 4,189 tons over the past three years. The top five jaman-producing districts / clusters in Punjab in view of this annual jaman production are as given in the table below;



Table 45: Top Five Jaman Producing Districts in Punjab

Districts	Annual Production (Tons)			Average Annual Production 2017-18 to 2019-20 (Tons)
	2017-18	2018-19	2019-20	
Kasur	1,059	1,059	1,031	1,050
Sargodha	761	737	733	744
Okara	524	534	534	531
Multan	226	208	215	216
Jhang	248	195	89	177

Source: Agriculture Marketing Information Service, Punjab

4.10 Banana

Punjab is a major producer of Banana, with an average annual production of 409 tons over the past five years. The top five banana-producing districts / clusters in Punjab in view of this annual banana production are as given in the table below;



Table 46: Top Five Banana Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Muzaffargarh	306	323	248	81	78	207
Sheikhupura	162	81	22	0	0	88
Khanewal	91	67	66	20	20	53
Multan	77	60	23	0	0	53
Vehari	96	22	15	0	0	44

Source: Agriculture Marketing Information Service, Punjab

4.11 Peach

Punjab is also a major producer of peach, with an average annual production of 1,286 tons over the past five years. The top five peach-producing districts / clusters in Punjab in view of this annual peach production are as given in the table below;



Table 47: Top Five Peach Producing Districts in Punjab

Districts	Annual Production (Tons)					Average Annual Production 2017-18 to 2021-22 (Tons)
	2017-18	2018-19	2019-20	2020-21	2021-22	
Attock	98	234	250	423	908	383
Rawalpindi	28	34	51	253	602	194
Okara	0	0	0	213	439	326
Chiniot	0	0	0	185	194	190
Jhang	0	0	0	179	193	186

Source: Agriculture Marketing Information Service, Punjab

5. Summary of Key Agriculture Commodities Clusters

The summary of the important agriculture commodity clusters based on the analysis of the highest average annual production as given at Agriculture Marketing Information Service, Punjab is given as below;

Table 48: Summary of the Key Agriculture Clusters

Sr. No.	Commodity	District
1	Wheat	Bahawalnagar
2	Rice	Gujranwala
3	Sugarcane	Rahim Yar Khan
4	Cotton	Bahawalpur
5	Maize	Okara
6	Gram	Bhakkar
7	Canola	Mianwali
8	Sesamum	Layyah
9	Bajra	Bhakkar
10	Jowar	Bahawalnagar
11	Ground Nut	Chakwal
12	Moong Pulses	Bhakkar
13	Guar Seed	Bhakkar

Cluster Mapping of Agriculture Commodities in Punjab

14	Mash Pulses	Narowal
15	Potato	Okara
16	Onion	RajanPur
17	Carrot	Faisalabad
18	Tomato	Sheikhupura
19	Cauliflower	Faisalabad
20	Peas	Sahiwal
21	Cabbage	Sheikhupura
22	Chilli Pepper	Multan
23	Okra	T.T. Singh
24	Spinach	Faisalabad
25	Radish	Gujranwala
26	Brinjal	Kasur
27	Cucumber	Okara
28	Arum	Kasur
29	Turmeric	Kasur
30	Garlic	Layyah
31	Beans	Sheikhupura
32	Long Melon	Rahim Yar Khan
33	Pumpkin	Rahim Yar Khan
34	Green Chillies	Multan
35	Bitter Gourd	Vehari
36	Lufa	Faisalabad
37	Mango	Multan
38	Citrus Fruits	Sargodha
39	Guava	Sheikhupura
40	Water and Musk Melon	Gujranwala
41	Pomegranate	Muzaffargarh
42	Dates	Muzaffargarh
43	Phalsa	Multan
44	Litchi	Sheikhupura
45	Jaman	Kasur
46	Banana	Muzaffargarh
47	Peach	Attock



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