

**Kharif-
2016**

**Basmati Acreage & Yield Estimation in
Punjab, Haryana, Delhi, Uttarakhand,
Himachal Pradesh, Western Uttar Pradesh
and Parts of Jammu & Kashmir**

Report Volume - 5

**Submitted to
Basmati Export
Development
Foundation
(APEDA), New
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CONTENTS

S. No.	Description	Page No.
1.	EXECUTIVE SUMMARY	2
2.	PROJECT BACKGROUND	7
3.	SCOPE OF THE CURRENT REPORT	7
4.	STUDY AREA DETAILS	8
5.	GROUND SURVEY BASED ACREAGE AND PRODUCTION ESTIMATES OF BASMATI RICE	10



EXECUTIVE SUMMARY

The present report being the fifth cycle of report for Kharif-2016 covers the results of field survey based acreage report of rice area transplanted and Basmati varieties in the different districts of Punjab, Haryana, Delhi, Uttar Pradesh, Uttarakhand, Himachal Pradesh and Jammu & Kashmir.

Study districts

The study area covers 81 districts, which includes 22 districts of Punjab, 21 districts of Haryana, 30 districts of Uttar Pradesh, 4 districts of Uttarakhand, 1 district of Himachal Pradesh and 3 districts of Jammu & Kashmir.

Rice Acreage & Production

This year total Basmati area has reduced from 21,34,550 ha to 21,18,550 ha i.e. 0.7% reduction is observed. While in production there is >8% reduction. Last year the production was 87,73,780 metric tons while this year the production is estimated 80,58,050 metric tons. The reduction in yield has been observed significantly due to pest and disease attack in many districts of Haryana and Western Uttar Pradesh.

In **Punjab**, the rice transplanting has been 30,10,000 ha in 22 districts this year. Pusa Basmati-1121 acreage (5,55,780 ha) has been a predominant variety but has decreased by 17% over the last year.

Amritsar district lead in case of Pusa Basmati-1121 occupying 85,460 ha. The area under Basmati in the state is 6,16,110 ha out of which the largest area is in Amritsar (1,13,940 ha), followed by Taran Taran district (83,300 ha). Other varieties like Basmati-386 has occupied 370 ha area and Sharbati a Non-basmati long grain variety has been transplanted in 5,390 ha. Basmati varieties like CSR-30 and Punjab Basmati-3 have lost the place and have reduced to almost nil this year. While Pusa Basmati-1 has been transplanted in 24,280 ha only. The estimated production of Pusa Basmati-1121 and Pusa Basmati-1509 is estimated to be 20,47,570 and 1,71,920 metric tons respectively. Pusa Basmati-1 is estimated to be only 1,16,100 metric tons this year. Whereas, Sharbati is estimated to be 20,420 metric tons. Basmati-386 has an estimated production 920 metric tons.



In **Haryana**, Out of the total 12.96 lakh ha rice transplanted, 7,19,980 ha has been estimated under Basmati varieties. Jind has been the leading district occupying maximum area under Basmati (81,900 ha) with several varieties transplanted followed by Karnal district (78,580 ha). In Haryana, Pusa Basmati-1509 has occupied only 26,160 ha area in the state with an estimated production 1,30,110 metric tons. Pusa Basmati -1121 harvesting has been almost completed in the state and the estimated production is 18,42,120 metric tons. In case of Pusa Basmati-1 also, the harvesting is on full swing in many districts. Other varieties grown in the state are CSR-30 and Pusa Basmati-1401. But most of the area under Pusa Basmati-1 in Fatehabad and Sirsa districts has been replaced by Pusa Basmati-6 (1401). Pusa Basmati -1121 has marginally increased as the farmers are disappointed by Pusa Basmati-1509 prices last year. Similarly, CSR-30 also didn't give higher returns to the farmers last year. And resultantly the area again has reduced in comparison to the last year. Pusa Basmati-6 (1401) has occupied 46,420 ha. with an

estimated production estimates 2,89,740 metric tons. CSR-30 occupied 97,920 ha area with an estimated production estimates 2,94,090 metric tons. Pusa Basmati-1 area figure has been 44,280 ha with estimated production 2,39,560 metric tons.

In **Uttar Pradesh**, a total of 13,16,170 ha rice transplanting has been estimated based on field survey in 30 districts this year. Out of the total 2,66,170 ha Basmati area, Pusa Basmati-1121 has occupied 1,56,260 ha. with an estimated production 4,50,000 metric tons, Pusa Basmati-1509, 53,650 ha. with an estimated production 2,04,050 metric tons, Pusa Basmati-1, 43,290 ha with an estimated production 1,39,260 metric tons. The other varieties, Basmati-370, Type-3 have been transplanted in 12,950 ha. area with an estimated production 21,690 metric tons. Over all a decrease by 21.68% in area and 23.44% in production has been estimated this year in Basmati rice. Sugandha varieties occupied 90,860 ha area in the state this year with an estimated 3,10,400 metric tons production.



In **Uttarakhand**, A total of 1,20,080 ha rice transplanting has been estimated based on field survey in 4 districts of the state this year. Out of the total 15,610 ha Basmati area, Pusa Basmati-1121 has been transplanted in 4,200 ha, Pusa Basmati -1509, 2,500 ha, Pusa Basmati-1 in 2,310 ha and Type-3 in 6,600 ha. The estimated production of Pusa Basmati-1121 and Pusa Basmati-1509 is estimated to be 11,280 and 10,150 metric tons. Type-3 and others have occupied 6,800 ha with an estimated production 12,830 metric tons. Sharbati has occupied 14,570 ha area in four districts with 49,180 metric tons production.

In **Jammu & Kashmir**, three districts have been taken up for the study. The total rice area is estimated to be 1,37,000 ha. in these districts. Jammu is the leading district with 49,080 ha. under Basmati. Out of 62,250 ha Basmati area, Basmati -370 has occupied 53,600 ha, Pusa Basmati- 1509, 250 ha, Pusa Basmati-1121, 8,400 ha and the Non-Basmati long grain Sharbati 9,950 ha. The

estimated production of Pusa Basmati-1121 and Pusa Basmati-1509 is 25,710 and 1,100 metric tons respectively. Basmati -370 has been transplanted in 53,600 ha area with estimated production 1,03,330 metric tons.

In **Himachal Pradesh**, Kangra and Mandi districts have the Basmati area in the state. This year the transplanting of Basmati has been done in 8,000 ha area, out of which 2,000 ha. is under Pusa Basmati-1121 and 1,000 under Kasturi Basmati. Pusa Basmati-1509 has been transplanted in both Mandi and Kangra districts occupying 5,000 ha. area.

Overall, the area under total rice has increased in all the states except W. U.P. & J&K. And many of the disappointed farmers have preferred significant area under Non-Basmati permal varieties apart from the varietal shift.

State wise and district wise Basmati varieties area and production estimates are given in the report.



Table 1: State-wise Area and Production of Basmati varieties during Kharif 2016

S. No.	State	Pusa Basmati-1121		Pusa Basmati-1		Pusa Basmati-1401		Pusa Basmati-1509		CSR-30		HBC-19, Type-3, Basmati-370, 386	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	Haryana	504.86	1842.12	44.28	239.56	46.42	289.74	26.16	130.11	97.92	294.09	0.37	0.92
2	Punjab	555.78	2047.57	24.28	116.10			35.20	171.92			12.95	21.69
3	W. Uttar Pradesh	156.26	450.00	43.29	139.26			53.65	204.05			6.80	12.83
4	Uttarakhand	4.20	11.07	2.31	7.19			2.50	10.15			1.00	2.66
5	Himachal Pradesh	2.00	7.60					5.00	22.10				
6	Jammu & Kashmir	8.40	25.71					0.25	1.10				
7	Delhi	1.00	3.80										
	Total	1232.50	4387.87	114.16	502.11	46.42	289.74	122.76	539.43	97.92	294.09	74.72	141.43

Table 2: State-wise Acreage & Production Estimates for Non-Basmati long grain Rice during Kharif 2016

S. No.	State	Sharbati		Sugandha	
		Area	Production	Area	Production
1	Haryana	2.59			
2	Punjab	5.39	20.42		
3	Uttar Pradesh	163.92	509.75	90.86	310.40
4	Uttarakhand	14.57	49.18	0.49	1.95
5	Himachal Pradesh	0.50	1.78		
6	Jammu & Kashmir	9.95	35.55		
	Total	196.92	616.68	91.35	312.35
	Yield (Tons/Ha)		3.13		3.42



Table-3 State-wise Area and Paddy production of Basmati in Kharif 2016 and Comparison with Kharif 2015					
Area in '000 ha; Production in '000 t					
Sl. No.	State	2015		2016	
		Area	Production	Area	Production
1	Punjab	863.74	3540.50	616.11	2795.62
2	Haryana	833.19	3242.67	719.98	2336.51
3	Uttar Pradesh	339.85	1066.47	266.15	816.54
4	Uttarakhand	15.80	45.58	15.81	41.24
5	Jammu & Kashmir	62.92	152.15	62.25	129.60
6	Himachal Pradesh	2.20	7.34	8.00	32.36
7	Delhi	0.85	3.35	1.00	3.80
Total		2118.55	8058.05	1689.30	6155.67

Table-4 State-wise Area and Paddy production of Non notified Non-Basmati in Kharif 2016 and Comparison with Kharif 2015								
Area in '000 ha; Production in '000 tons								
State	2015				2016			
	Sharbati		Sugandha		Sharbati		Sugandha	
	Area	Production	Area	Production	Area	Production	Area	Production
Punjab	5.03	20.61			2.59			
Haryana	2.74	9.98			5.75	20.42		
Uttar Pradesh	151.17	472.22	92.78	354.42	163.92	509.75	90.86	310.40
Uttarakhand	15.20	53.14	0.92	3.17	14.57	49.18	0.49	1.95
Jammu & Kashmir	9.41	33.70			9.95	35.55		
Himachal Pradesh	0.70	2.45			0.50	1.78		
Total	184.25	592.09	93.70	357.59	197.28	616.68	91.35	312.35



Project Background

Basmati rice is an important export commodity among the food grains exported from India. During the past few years, the Basmati export has been growing steadily, from 7.71 lakh metric tonnes in 2003 to an estimated 4.05 million metric tonnes in 2015-16 on robust demand from the traditional markets in West Asia.

Almost 132 countries have been importing Basmati from India every year. Out of which, Iran, Saudi Arabia, UAE and Iraq are the major importers. Apart from India second is Pakistan from where Basmati is exported to many countries.

Timely information on the area and likely production of the crop before the harvest helps exporters and other decision makers involved in Basmati trade to take decisions about the quantum and time of export. Realizing this potential, the Basmati Export Development Foundation (BEDF), New Delhi contracted M/s. Agri Net Solutions (A division of BPPL – a UPL Group Company) the work of field survey validation based acreage estimation for all rice, for Basmati crop for selected other non-notified varieties), crop health monitoring and yield

estimation and production for Basmati rice and non-notified varieties and questionnaire based sample survey of farmers, for 81 districts in the selected seven states i.e. Punjab, Haryana, Uttar Pradesh, Uttarakhand, Himachal Pradesh, and Jammu & Kashmir apart from Delhi. The field survey based approach has been being applied to collect the information at block level to improve the accuracy further to a desired level.

The Basmati varieties for which information is required include Basmati-370, Basmati-386, Type-3 (Dehraduni), Taraori, Ranbir, Pusa-1509, Pusa Basmati-1, CSR-30 and Pusa Basmati-1121 and non-notified, non-Basmati (Sharbati, and Permal).

Scope of the current report

The present report being the fifth cycle of report for Kharif-2016 covers the results of field survey based Basmati acreage and production estimates of all the Basmati varieties including Pusa Basmati-1121, Pusa Basmati-1, Pusa Basmati-1509, CSR-30, Basmati-386, Basmati-370, Type-3 and Non-Basmati long grain varieties Sharbati & Sugandha.

Study Area Details



The study is confined to 81 districts, which includes 22 districts of Punjab (Amritsar, Barnala, Bathinda, Faridkot, Fatehgarh Sahib, Firozpur, Fazilka, Gurdaspur, Pathankot, Hoshiarpur, Jalandhar, Kapurthala, Ludhiana, Mansa, Moga, Mohali, Muktsar, Nawanshahar, Patiala, Ropar, Sangrur and Tarantaran), 21 districts of Haryana (Ambala, Faridabad, Bhiwani, Fatehabad, Gurgaon, Hissar, Jhajjar, Jind, Kaithal, Karnal, Kurukshetra, Mahendragarh, Mewat, Palwal, Panchkula, Panipat, Rewari, Rohtak, Sirsa, Sonapat, Yamunanagar), 3 Districts of Jammu & Kashmir (Jammu, Samba and Kathua), 30 districts of Uttar Pradesh (Agra, Aligarh, Auraiya, Baghpat, Bareilly, Bijnore, Budaun, Bulandshahr, Etah, Kasganj, Etawah, Ferozabad, Gautam Buddha Nagar, Ghaziabad, Hapur, Hathras, J. P. Nagar, Kannauj, Mainpuri, Mathura, Meerut, Moradabad, Sambhal, Muzaffarnagar, Shamli, Pilibhit, Rampur, Saharanpur,

Shahjehanpur), 4 districts of Uttarakhand, 1 district of Himachal Pradesh and one of Delhi.

The map of the study districts is given as Fig.

1. The complete list of districts is given in Annexure I. The study districts form a part of the Himalayas and the Indo-Gangetic Plains.

Rainfall during Kharif 2016

The Basmati growing belt has witnessed normal to deficient rainfall in the months of June and July this year in the states of Punjab, Haryana and Western U.P. And the transplanting has been timely due to good distribution of rainfall in the districts. A cumulative rainfall has been deficient in most of the area due to lesser rainfall in the month of September. The new variety Pusa Basmati-1509 has reduced to very less area due to very low returns last year.

The rainfall during 1 June to 28 Sept., 2016 in meteorological divisions under study area is given in table-1 and the rainfall in prominent districts in table-2.



Fig. 1: Map Showing the Districts of the Study Area





Ground Survey based Rice Acreage

In **Haryana**, the harvesting of Pusa Basmati-1509 & Pusa Basmati-6 is yet to finish and Pusa Basmati-1 and Pusa Basmati-1121 are almost harvested. There are high incidences of pest attack this year. The Neck Blast, Node Blast and Stem Rot have affected significant area and thus the yield is reduced. Additionally BPH has caused a significant damage to the crop. The district wise area figures and production estimates under Basmati varieties have been given in Table-3. The production estimates of Pusa Basmati-1509, Pusa Basmati-1, Pusa Basmati-1121 and Sharbati are given in Table 5.

Crop Stage:

Pusa Basmati-1509 & Sharbati harvesting is completed and Pusa Basmati-1121 is being harvested. However, lately transplanted in many areas of districts like Kaithal, the crop is reaching at maturity stage and yet to be harvested. CSR-30 and Pusa Basmati-1401 are approaching maturity stage.

Crop Health:

Crop health was good but later stem rot and BPH damaged the crop of all the varieties

except Pusa Basmati-1509 significantly causing a loss to yield.

PUNJAB

Crop Stage:

(i) Pusa Basmati-1509 and Sharbati harvesting is completed and being marketed @ Rs. 1600-1750/- and Rs. 1500-1600/- per quintal respectively.

(ii) Pusa Basmati-1121 harvesting is almost completed now and is being marketed @ Rs. 1900-2250/- per quintal.

(iii) Farmers got a slightly higher yield 0.5-1.5 quintal per acre.

Disease / Pests:

There have been incidences of BPH attack, Neck blast and Stem Rot. But the damage has been below ETL.

Rice Acreage:

Pusa Basmati-1121 is dominating among Evolved Basmati varieties and the area has increased due to low prices for all other varieties last year. Further much of the area has been occupied by Non-Basmati permal varieties. The district-wise acreage under total rice and variety wise Basmati rice is given in Table-6.



W. UTTAR PRADESH

Pusa Basmati-1509 and Pusa Basmati-1121 harvesting has been finished. Sharbati too is fully harvested. Sugandha -5 harvesting is also finished in the state. *Stem Rot, Neck Blast* and BPH attack caused reduction in yield of Pusa Basmati-1, Pusa Basmati-1509 and Pusa Basmati-1121.

This year, there is a likely loss of 2-3% in case of almost all the Basmati varieties due to disease attack. The district wise area under Basmati varieties is given in Table-7.

UTTARAKHAND

The district wise area and Production under Basmati varieties is given in Table-8.

JAMMU & KASHMIR

Pusa Basmati- 1509 has been transplanted in Kathua and Samba districts. The district wise area under Basmati varieties is given in Table-9.

HIMACHAL PRADESH

Pusa Basmati-1509 has been transplanted in both Mandi and Kangra districts of the state this year occupying 5,000 ha. area. The district-wise Area and production estimates under Basmati rice in Himachal Pradesh during Kharif-2016 is given Table-10.



Table 5: District-wise Acreage & Production Estimates of Basmati Varieties in Haryana during Kharif 2016

Area in '000 ha, Production ('000 tons)

S. No.	District	Pusa Basmati-1121		Pusa Basmati-1509		Pusa Basmati-1401		Pusa Basmati - 1		CSR-30	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	Ambala	7.20	20.11	0.12	0.56			0.26	1.15	9.30	20.96
2	Bhiwani	22.05	70.23					0.30	1.32		
3	Faridabad	8.10	31.75					0.20	0.78		
4	Gurgaon	2.40	7.06								
5	Fatehabad	27.41	110.78	1.30	6.88	7.37	50.56	12.58	84.76	1.05	3.09
7	Hisar	42.40	166.21	0.45	2.54			0.85	4.17	1.10	2.96
8	Jajjhar	42.41	138.19	0.92	3.83					0.27	0.65
9	Jind	65.03	302.71	1.87	8.22			8.26	40.45	6.04	17.74
10	Kaithal	37.30	138.89	2.80	14.41			0.10	0.56	24.38	71.68
11	Karnal	39.71	163.43	8.85	43.58			0.26	1.21	29.77	89.33
12	Kurukshetra	11.04	43.28	2.70	13.23			2.55	13.12	14.48	45.04
13	Mewat	7.50	25.73								
14	Palwal	16.99	41.63	0.20	0.83			3.19	14.07		
15	Panipat	56.01	171.53	2.15	10.51			2.10	8.23	7.85	30.75
16	Rewari	1.20	4.41								
17	Rohtak	36.16	124.03	0.05						0.06	0.15
18	Sirsa	11.87	58.16	2.97	17.43	39.05	239.18	6.41	32.17	0.30	0.81
19	Sonepat	69.33	220.82	1.21	5.04					2.94	9.67
20	Yamunanagar	0.77	3.19	0.59	3.04			7.24	37.58	0.41	1.26
Total		504.86	1842.12	26.16	130.11	46.42	289.74	44.28	239.56	97.92	294.09



Table 6: District-wise Acreage & Production Estimates under Basmati Varieties in Punjab during Kharif 2016

Area in '000 ha, Production ('000 tons)

S. No.	District	Basmati-386		Pusa Basmati 1121		Pusa Basmati-1509		Pusa Basmati -1	
		Area	Production	Area	Production	Area	Production	Area	Production
1	Amritsar	0.37	0.92	85.46	313.85	28.11	138.63	0.54	2.65
2	Barnala			2.01	7.89				
3	Bhatinda			11.29	37.92				
4	Faridkot			22.80	92.87				
5	Fatehgarh Sahib			8.40	33.45	2.04	9.69		
6	Fazilka			70.33	287.60				
7	Firozepur			50.87	182.78				
8	Gurdaspur			44.06	160.06	0.09	0.41		
9	Pathankot			3.01	8.39				
10	Hoshiarpur			7.31	27.54				
11	Jalandhar			10.73	40.31	0.70	0.35		
12	Kapurthala			8.54	30.20				
13	Ludhiana			19.30	71.57	1.96	10.15	3.27	14.79
14	Mansa			1.00	3.81				
15	Moga			19.93	49.76			0.13	0.62
16	Mohali			4.30	13.25				
17	Muktsar			49.89	176.92			9.04	43.32
18	Nawanshahar			5.21	18.32	0.20	0.96		
19	Patiala			17.88	70.44	1.00	5.00	2.71	13.28
20	Roopnagar			3.21	10.90	0.01	0.04		
21	Sangrur			30.08	113.91			6.55	31.74
22	Tarantaran			80.17	295.83	3.13	16.38		
	Total	0.37	0.92	555.78	2047.57	35.20	171.92	24.28	116.10

**Table 7: District-wise Acreage & Production Estimates under Basmati Varieties in Uttar Pradesh during Kharif 2016**

Area in '000 ha, Production ('000 tons)									
S. No.	District	Pusa Basmati-1121		Pusa Basmati-1&6		Pusa Basmati-1509		Type-3 & others	
		Area	Production	Area	Production	Area	Production	Area	Production
1	Agra	0.38	1.00	0.08	0.26	0.46	1.80		
2	Aligarh	18.58	53.03	4.88	14.20	4.17	18.34		
3	Auraiya	1.12	2.82	0.05	0.16	0.16	0.51	0.67	1.20
4	Baghpat	2.13	6.20	1.19	3.55	0.51	2.00	0.03	0.05
5	Bareilly	1.31	3.45	0.47	1.41	0.64	2.24	0.68	1.41
6	Bijnore	1.62	4.00	3.15	9.50	2.16	7.78		
7	Budaun	2.02	5.24	0.75	2.30	1.99	5.97	9.48	15.13
8	Bulandshahr	20.74	60.23	5.76	19.86	4.22	17.90	0.02	0.03
9	Etah+Kasganj	5.19	12.80	0.49	1.56	2.93	9.58		
10	Farukhabad	1.84	4.88	0.06	0.18	0.83	2.49		
11	Firozabad	2.33	6.34	0.24	0.75	1.28	4.86		
12	Etawah	6.33	18.56	0.16	0.53	2.54	8.89		
13	Gautam Buddha Nagar	18.86	56.81	1.78	6.11	0.76	3.27	0.01	0.02
14	Ghaziabad+Hapur	5.84	19.48	1.40	4.75	2.75	12.41		
15	Hathras	4.21	12.50	0.80	2.65	2.32	7.91		
16	Mathura	25.09	77.12	1.06	3.50	3.27	12.43		
17	Mainpuri	16.12	43.89	0.20	0.71	2.37	7.54		
18	Meerut	2.55	6.88	2.38	7.88	2.38	9.80	0.03	0.06
19	Moradabad	0.97	3.00	0.30	1.00	2.12	7.85		
20	J. P. Nagar	1.20	3.18	0.97	3.01	1.94	7.00		
21	Kannauj	0.65	1.65	0.16	0.45	1.38	4.21		
22	Muzaffarnagar+Shamli	4.62	12.80	3.98	13.40	2.42	10.16	0.11	0.25
23	Pilibhit	0.88	2.68	0.16	0.48	3.33	12.95		
24	Rampur	0.68	2.02	0.14	0.48	1.18	4.52		
25	Saharanpur	7.80	22.30	12.01	38.23	3.07	12.03	0.21	0.50
26	Shahjehanpur	1.63	4.76	0.27	0.85	0.80	3.10	1.71	3.00
27	Sambhal	1.57	4.09	0.40	1.33	1.67	6.51	0.02	0.04
Total		156.26	451.71	43.29	139.09	53.65	204.05	12.95	21.69



Table 8: District-wise Acreage & Production under Basmati Varieties in Uttarakhand during Kharif 2016

S. No.	District	Pusa Basmati-1121		Pusa Basmati-1509		Type-3 & others	
		Area	Production	Area	Production	Area	Production
1	Dehradun	0.4	1.0	0.0	0.71	2.7	4.90
2	Haridwar	1.6	4.4	2.2	2.30	2.4	4.68
3	Nainital	0.3	0.8	0	0.92	0.90	1.75
4	Udham Singh Nagar	1.9	4.9	0.12	6.22	0.8	1.50
Total		4.20	11.07	2.31	10.15	6.80	12.83

Area in '000 ha, Production '000 tons

Table 9: District-wise acreage under Basmati rice in Jammu & Kashmir during Kharif 2016

S. No.	District	Pusa Basmati-1121		Pusa Basmati-1509		Basmati-370	
		Area	Production	Area	Production	Area	Production
1	Jammu	1.40	3.98	0.00	0.00	47.68	92.33
2	Kathua	6.40	19.45	0.20	0.80	3.80	7.20
3	Samba	0.60	1.74	0.05	0.30	2.12	3.80
Total		8.40	25.17	0.25	1.10	53.60	103.33

Area '000 ha, Production ('000 tons)

Table 10: District-wise acreage & Production Estimates under Basmati in Himachal Pradesh during Kharif 2016

S. No.	District	Pusa Basmati-1121		Pusa Basmati-1509		Kasturi Basmati	
		Area	Production	Area	Production	Area	Production
1	Kangra	2.00	7.60	1.00	4.50	1.00	2.66
2	Mandi			4.00	17.60		
Total		2.00	7.60	5.00	22.10	1.00	2.66

Area '000 ha, Production ('000 tons)