

**Kharif-
2016**

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

Report Volume - 4

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

The present report being the fourth 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

In **Punjab**, the rice transplanting has been 3,10,000 ha in 22 districts this year. Pusa Basmati-1121 acreage (5,55,780 ha) has been as predominant variety and has decreased by 17% over the last year. Over all a 28.5% decrease in Basmati area has been observed this year.

Amritsar district lead in case of Pusa Basmati-1121 occupying 1,14,100 ha. The area under Basmati is 8,67,900 ha out of

which the largest area is in Amritsar (1,14,100 ha), followed by Taran Taran district (83,300 ha). Other varieties like Basmati-386 has occupied 7,570 ha area and Sharbati a Non-basmati long grain variety has been transplanted in 5,390 ha. Basmati varieties like CSR-30, Punjab Basmati-3 and Pusa Basmati-1 have lost the place and have significantly reduced this year. 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 1,16,100 metric tons this year whereas, Sharbati is estimated to be 20,420 metric tons.

In **Haryana**, Out of the total 12.96 lakh ha rice transplanted, 7.19 lakh ha has been estimated under Basmati varieties. Jind has been the leading district occupying maximum area under Basmati (81,190 ha) with several varieties transplanted followed by Karnal district (78,580ha). In Haryana, Pusa Basmati-1509 has occupied only 26,160 ha area in the state with an estimated production 1,39,840 metric tons.



Pusa Basmati -1121 harvesting has started in few districts and the estimated production for all the districts is not available as the survey is in progress. In the southern districts of the state, the harvesting of the variety has not yet started. In case of Pusa Basmati-1 also, the harvesting is yet to start in many districts. Other varieties grown in the state are CSR-30, Pusa Basmati-1 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 mildly 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. However, Non-Basmati permal varieties replaced much of the area under Pusa Basmati-1509 and CSR-30. The first estimates of the production are given in the table.

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, Pusa Basmati-1509, 53,650 ha; Pusa Basmati-1, 43,290 ha and the other varieties, Basmati-370, Type-3 have been transplanted in 12,970 ha. area. Over all a decrease by 21.68% has been observed in Basmati area in comparison to last year.

Pusa Basmati-1121 and Pusa Basmati-1509 paddy production is estimated 4,50,000 and 2,04,050 metric tons respectively. The production of Pusa Basmati-1 is estimated 1,39,260 metric tons. 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. 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 49,100 ha. area under Basmati. Out of 62,950 ha total 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 estimated 25,710 and 1,100 metric tons respectively.

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.

Both in Haryana and Western Uttar Pradesh, much of the area under Pusa Basmati-1121 and Pusa Basmati-1 has been attacked by BPH at later stages affecting the grain quality and reducing the yield. While in Punjab, the pest attack has been below ETL level and an increase in yield has been reported in comparison to last two years.

Overall, the area under total rice has increased in the states this year. And many of the disappointed farmers have preferred significant area under Non-Basmati permal varieties apart from the varietal shift.

The final production estimates for all the Basmati varieties shall be given in the next report volume.



Table 3: State-wise Acreage & Production Estimates for Evolved Basmati Varieties & Non-Basmati long grain Rice during Kharif 2016							
Area in '000 ha, Production ('000 tons)							
S. No.	State	Pusa Basmati-1121		Pusa Basmati-1		Pusa Basmati-1509	
		Area	Production	Area	Production	Area	Production
1	Haryana*	504.86	1818.42	44.28	239.47	26.16	139.84
2	Punjab	555.78	2047.57	24.28	116.10	35.20	171.92
3	Uttar Pradesh	156.26	450.00	43.29	139.26	53.65	204.05
4	Uttarakhand	4.20	11.28	2.31	7.98	2.50	10.15
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	4364.38	114.16	502.81	122.76	549.16
Yield (Tons/Ha)			3.54		4.40		4.47

Table 3a: State-wise Acreage & Production Estimates for Non-Basmati long grain Rice during Kharif 2016					
Area in '000 ha, Production ('000 tons)					
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

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 fourth cycle of report for Kharif-2016 covers the results of field survey based Basmati acreage and production estimates of Pusa Basmati-1121, Pusa Basmati-1, Pusa Basmati-1509, 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





**Table 1: Rainfall in the monsoon season at important subdivisions
(1 June to 28 Sept. 2016)**

Table 1: Rainfall (mm) in the Meteorological Divisions in different states (1.6.2016 to 28.9.2016)			
Met. Division	1 June to 28 Sept. '16		Remarks
	Normal	Actual	
Punjab	489.4	351.4 (-28)	Deficient
Haryana, Delhi	464.3	338.3 (-27)	Deficient
Western UP	764.6	640.0 (-16)	Normal
Himachal Pradesh	822.1	624.4 (-24)	Deficient
Uttarakhand	1223.4	1103.2 (-10)	Normal
Jammu & Kashmir	532.5	478.5 (-10)	Normal

Figures in parantheses show percent deviation from normal. Source: IMD

Table 2: Rainfall in the monsoon season at important locations (1 June to 28 Sept. 2016)				
Location / District	Total Rainfall (mm)	Normal Rainfall	% Departure from normal	Status
Ambala	434.4	914.0	-52	Deficient
Hissar	240.0	323.9	-26	Deficient
Karnal	372.1	575.2	-35	Deficient
Jammu	1110.0	859.1	29	Excess
Kathua	883.4	979.2	-10	Normal
Amritsar	463.0	532.3	-13	Normal
Sangrur	294.8	435.0	-32	Deficient
Patiala	240.7	611.8	-61	Scanty
Nainital	1556.4	1432.6	9	Normal
Dehradun	1194.8	1795.1	-33	Deficient
Udham Singh Nagar	643.0	1111.8	-42	Deficient
Kangra	1338.7	1577.9	-15	Normal
Meerut	472.8	773.5	-39	Deficient
Saharanpur	535.2	798.0	-33	Deficient
Bulandshaher	541.0	664.5	-19	Normal
Delhi	524.6	633	-17	Normal

Source: IMD



Ground Survey based Rice Acreage

HARYANA

In Haryana, the harvesting of Pusa Basmati-1509 & Pusa Basmati-1 are being harvested. Pusa Basmati-1121 was lately transplanted and the harvesting has just initiated in northern districts. There are high incidences of pest attack this year. The Neck Blast and Node Blast have affected significant area and thus the yield is reduced. There has been BPH attack as well.

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 3.

Crop Stage:

Pusa Basmati-1509, Pusa Basmati-1 & Sharbati harvesting is continued along with Pusa Basmati-1121 harvesting in a few districts. CSR-30 and Pusa Basmati-1401 are approaching maturing stage.

Crop Health:

Crop health is good but some grain discoloration is there in districts like Jind,

Sonepat, Panipat, Jhajjar and Rohtak due to BPH attack.

PUNJAB

Crop Stage:

90-100% Pusa Basmati-1509 and Pusa Basmati-1 harvesting is almost done and being marketed @ Rs. 1700-1900 per quintal respectively. Almost 80-90% produce has been marketed. The market price ranged INR 1800-2200/Qtl.

Pusa Basmati-1121 harvesting has just started and will be at peak Diwali festival. Market rate is ranging INR 1700-2300/Qtl.

Disease / Pests:

Neck Blast and BPH incidence is also observed in many areas but below ETL level and the crop has been very good.

Rice Acreage:

Pusa Basmati-1121 is dominating among Evolved Basmati varieties but the area has reduced due to low prices for all other varieties last year. 90% of Pusa Basmati-1509 has been transplanted in Amritsar district and in three cropping system only. The district-wise acreage under total rice and variety wise Basmati rice is given in Table-4.

W. UTTAR PRADESH



Pusa Basmati-1121 harvesting has just started. Almost 95% Pusa Basmati-1509 has been harvested. 75-80% area under Sharbati too is harvested. Pusa Basmati-1509 and Sugandha -5 harvesting has reached at full swing in the state. *BPH*, *Node blast* and *neck blast* have been observed severely affecting the crop of Pusa Basmati-1 & 6 and Pusa Basmati-1121. This year, there is a likely loss of 10-15% in case of almost all the Basmati varieties due to pest attack. Grain discoloration has been observed in all the Basmati areas. The district wise area under Basmati varieties is given in Table-5

UTTARAKHAND

BPH, stem borer and neck blast attack has been observed causing reduction in yield. The district wise area and Production under Basmati varieties is given in Table-6

JAMMU & KASHMIR

Pusa Basmati- 1509 has been transplanted in Kathua and Samba districts. The district wise area under Basmati varieties is given in Table-7.

HIMACHAL PRADESH

The district-wise target for total rice in Himachal Pradesh during Kharif-2016 is given Table-8.

Table 3: District-wise Acreage & Production Estimates under Evolved Basmati Varieties & Long Grain Non-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 - 1		Sharbati	
		Area	Production	Area	Production	Area	Production	Area	Production
1	Ambala	7.20	21.17	0.12	0.56	0.26	1.43	0.08	
2	Bhiwani*	22.05	75.63						
3	Faridabad*	8.10	29.77			0.30	1.65		
4	Gurgaon*	2.40	8.53			0.20	1.10		
5	Fatehabad	27.41	120.86	1.30	7.39	12.58	75.51	0.07	
7	Hisar	42.40	155.82	0.45	2.54	0.85	4.17		
8	Jajjhar*	42.41	155.86	0.92					
9	Jind	65.03	238.99	1.87	9.18	8.26	30.34		
10	Kaithal	37.30	139.53	2.80	14.54	0.10	0.56		
11	Karnal	39.71	141.05	8.85	52.25	0.26	1.21	0.13	
12	Kurukshetra	11.04	41.11	2.70	14.55	2.55	13.68	0.29	
13	Mewat*	7.50	27.56						
14	Palwal*	16.99	60.36	0.20	1.10	3.19	17.58	0.25	
15	Panipat	56.01	171.53	2.15	10.51	2.10	10.29	0.29	
16	Rewari*	1.20	3.82						
17	Rohtak*	36.16	128.46	0.05				1.00	
18	Sirsa	11.87	57.58	2.97	18.67	6.41	42.06	0.49	
19	Sonepat	69.33	237.80	1.21	5.63				
20	Yamunanagar	0.77	3.00	0.59	2.91	7.24	39.88		
Total		504.86	1818.42	26.16	139.84	44.28	239.47	2.59	0.00



Table 4: District-wise Acreage & Production Estimates under Basmati Varieties & Sharbati (Non-Basmati) in Punjab during Kharif 2016

S. No.	District	Area in '000 ha, Production ('000 tons)							
		Pusa Basmati 1121		Pusa Basmati-1509		Pusa Basmati -1		Sharbati	
		Area	Production	Area	Production	Area	Production	Area	Production
1	Amritsar	85.46	313.85	28.11	138.63				
2	Barnala	2.01	7.89			0.54	2.65		
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	Firoze pur	50.87	182.78						
8	Gurdaspur	44.06	160.06	0.09	0.41			3.49	13.48
9	Pathankot	3.01	8.39					1.90	6.94
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	555.78	2047.57	35.20	171.92	24.28	116.10	5.39	20.42

Table 5: District-wise Acreage & Production Estimates under Evolved Basmati Varieties and long grained non-Basmati varieties in Uttar Pradesh during Kharif 2016

S. No.	District	Area in '000 ha, Production ('000 tons)											
		Pusa Basmati-1121		Pusa Basmati-1&6		Pusa Basmati-1509		Sharbati		Sugandha			
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production		
1	Agra	0.38	1.00	0.08	0.26	0.46	1.80	0.00	0.00	2.16	6.45		
2	Aligarh	18.58	50.23	4.88	14.20	4.17	18.34	2.38	8.33	8.97	28.32		
3	Auraiya	1.12	2.90	0.05	1.60	0.16	0.51	1.72	4.91	0.19	0.60		
4	Baghpat	2.13	6.20	1.19	3.90	0.51	2.00	0.22	0.80	0.85	2.35		
5	Bareilly	1.31	3.68	0.47	1.63	0.64	2.24	43.75	129.45	0.49	1.63		
6	Bijnore	1.62	4.06	3.15	9.50	2.16	7.78	16.89	54.20	1.34	4.99		
7	Budaun	2.02	5.24	0.75	2.30	1.99	5.97	19.86	61.52	1.95	6.82		
8	Bulandshahr	20.74	59.23	5.76	18.86	4.22	17.90	4.23	14.80	14.63	52.34		
9	Etab+Kasganj	5.19	13.50	0.49	1.70	2.93	9.58	0.84	2.44	7.34	23.50		
10	Farukhabad	1.84	5.09	0.06	0.21	0.83	2.49	0.13	0.35	2.35	6.89		
11	Firozabad	2.33	6.80	0.24	0.81	1.28	4.86	0.12	0.31	5.27	17.20		
12	Etawah	6.33	19.25	0.16	0.53	2.54	8.89	0.06	0.18	4.54	13.66		
13	Gautam Buddha Nagar	18.86	56.81	1.78	5.64	0.76	3.27	1.31	4.60	0.87	3.01		
14	Ghaziabad+Hapur	5.84	20.36	1.40	4.33	2.75	12.41	2.89	8.56	4.95	18.67		
15	Hathras	4.21	11.30	0.80	2.65	2.32	7.91	0.65	2.01	5.84	19.32		
16	Mathura	25.09	77.12	1.06	3.50	3.27	12.43	0.26	0.91	3.39	13.62		
17	Mainpuri	16.12	45.80	0.20	0.71	2.37	7.54	0.15	0.52	5.97	19.96		
18	Meerut	2.55	6.00	2.38	7.31	2.38	9.80	0.59	1.95	3.13	12.08		
19	Moradabad	0.97	3.13	0.30	1.00	2.12	7.85	8.61	29.27	2.34	7.95		
20	J. P. Nagar	1.20	3.18	0.97	3.21	1.94	7.00	6.76	22.31	2.73	9.00		
21	Kannauj	0.65	1.65	0.16	0.56	1.38	4.21	0.13	0.37	1.41	4.31		
22	Muzaffarnagar+Shamli	4.62	12.80	3.98	13.40	2.42	10.16	1.17	3.35	1.97	8.01		
23	Pilibhit	0.88	2.80	0.16	0.56	3.33	12.95	5.10	16.00	0.37	1.45		
24	Rampur	0.68	2.02	0.14	0.48	1.18	4.52	22.83	69.32	0.19	0.78		
25	Saharanpur	7.80	20.83	12.01	38.23	3.07	12.03	7.10	21.56	2.85	10.57		
26	Shahjehanpur	1.63	4.93	0.27	0.85	0.80	3.10	8.12	27.43	0.42	1.39		
27	Sambhal	1.57	4.09	0.40	1.33	1.67	6.51	8.05	24.30	4.35	15.53		
Total		156.26	450.00	43.29	139.26	53.65	204.05	163.92	509.75	90.86	310.40		

Table 6: District-wise Acreage & Production under Evolved Basmati Varieties & Non-Basmati Long grain Varieties in Uttarakhand during Kharif 2016

S. No.	District	Area in '000 ha, Production '000 tons											
		Pusa Basmati-1121		Pusa Basmati-1		Pusa Basmati-1509		Sharbati		Sugandha			
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production		
1	Dehradun	0.4	1.0	0.0	0.0	0.20	0.7	2.45	7.5	0.06	0.24		
2	Haridwar	1.6	4.6	2.2	7.6	0.50	2.3	3.59	13.6	0.26	1.07		
3	Nainital	0.3	0.8	0	0	0.30	0.92	1.40	4.7	0	0		
4	Udham Singh Nagar	1.9	4.9	0.12	0.38	1.50	6.22	7.13	23.4	0.17	0.64		
Total		4.20	11.28	2.31	7.98	2.50	10.15	14.57	49.18	0.49	1.95		

Table 7: District-wise acreage under total rice and Basmati rice in Jammu & Kashmir during Kharif 2016

S. No.	District	Area '000 ha, Production ('000 tons)							
		Pusa Basmati-1121		Pusa Basmati-1509		Basmati-370		Sharbati	
		Area	Production	Area	Production	Area	Production	Area	Production
1	Jammu	1.40	4.50	0.00	0.00	47.68	95.50	8.95	32.00
2	Kathua	6.40	21.00	0.20	0.80	3.80	7.70	0.73	2.53
3	Samba	0.60	0.21	0.05	0.30	2.12	3.80	0.27	1.02
Total		8.40	25.71	0.25	1.10	53.60	107.00	9.95	35.55

Table 8: District-wise acreage & Production Estimates under Pusa Basmati-1121, Pusa Basmati-1509 and Non-Basmati Sharbati in Himachal Pradesh during Kharif 2016

S. No.	District	Area '000 ha, Production ('000 tons)					
		Pusa Basmati-1121		Pusa Basmati-1509		Sharbati	
		Area	Production	Area	Production	Area	Production
1	Kangra	2.00	7.60	1.00	4.50	0.50	
2	Mandi			4.00	17.60		
Total		2.00	7.60	5.00	22.10	0.50	0.00