

PADDY BASMATI

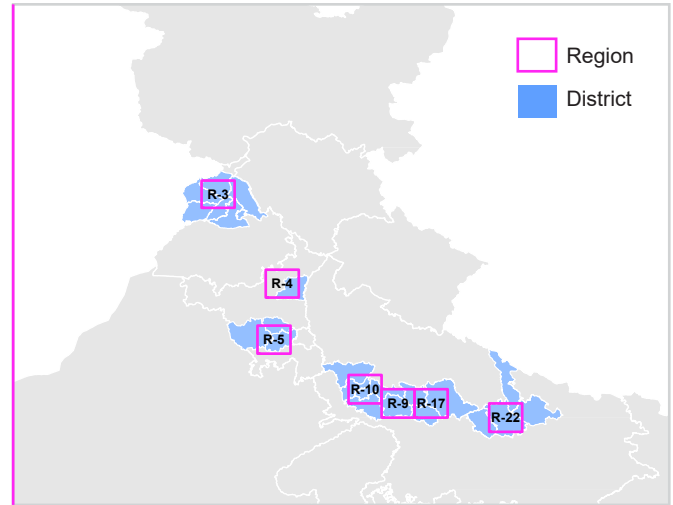


Basmati is world famous for its special fragrance and flavor. In India, it holds a special status in rice cultivation because of its high demand in national & international markets. India accounts for more than 70% of the world's basmati rice production. The major Basmati growing states are Punjab, Haryana, Uttar Pradesh, Himachal Pradesh, Delhi, Uttarakhand, Rajasthan, and Madhya Pradesh. Major export markets include Iran, Saudi Arabia, Iraq, the United Arab Emirates (UAE), Kuwait, Yemen Republic, the United States of America (USA), and the United Kingdom (UK).

Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-3	Punjab	2,67,751	2,57,137	5,355	5,143
R-4	Haryana	67,512	64,051	6,751	6,405
R-5	Haryana	2,33,846	2,31,529	21,046	20,838
R-9	Uttar Pradesh	77,649	72,151	7,765	7,215
R-10	Uttar Pradesh	44,959	42,816	4,496	4,282
R-17	Uttar Pradesh	62,185	60,173	6,218	6,017
R-22	Uttar Pradesh	1,80,802	1,76,372	10,848	10,582

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Trans-Gangetic Plains (TGP)	Punjab	R-3	Amritsar, Gurdaspur, Hoshiarpur, Jalandhar, Kapurthala, Tarn Taran	Basmati CSR-30, PB Basmati (2, 3, 4, 5), Pusa Basmati (1121, 1509, 1609, 1637, 1718, 1728, 6), Basmati 370, Unnat Pusa Basmati, Vallabh Basmati 22
	Haryana	R-4	Bhiwani, Jhajjar, Rohtak	Pusa Basmati (1509, 1728, 1718, 1637, 6), Vallabh Basmati 22, Malviya Basmati Dhan 10-9, Pant Basmati 2, Basmati (CSR-30, 370), Unnat Pusa Basmati
		R-5	Karnal	
Upper Gangetic Plains (UGP)	Uttar Pradesh	R-9	Etah, Mainpuri	Pusa Basmati (1509, 1609, 1637, 6), Vallabh Basmati 22, Basmati (CSR-30, 370), Unnat Pusa Basmati
		R-10	Aligarh, Etah, Firozabad, Hathras	
		R-17	Farrukhabad, Hardoi, Kannauj	
		R-22	Bahraich, Barabanki, Gonda, Lucknow	



Seasonal Calendar

The seasonal details are depicted in the calendar by their agro-climatic zones

Agro-Climatic Zone	Region	May	Jun	Jul	Aug	Sep	Oct	Nov
TGP	R-3							
	R-4, R-5							
UGP	R-9, R-10, R-17, R-22							

Note: TGP Trans-Gangetic Plain, UGP Upper Gangetic Plain

■ Sowing ■ Mid season ■ Harvesting



Quality Specifications

Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

No.	Paddy Basmati	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	261	262	263	264	265
I	Length (mm)	6 mm and above				
II	Moisture (% by wt)	01.00 - 12.00	12.01 - 13.00	13.01 - 14.00	14.01 - 15.00	Above 15.01
III	Foreign matter (% by wt)	01.00 - 02.00	01.00 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 06.00
IV	Damaged/Discoloured grains & Weevil Grains (% by wt)	01.00 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 06.00	06.01 - 08.00
V	Admixture (% by wt)	01.00 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 05.00	05.01 - 06.00



Contract Summary

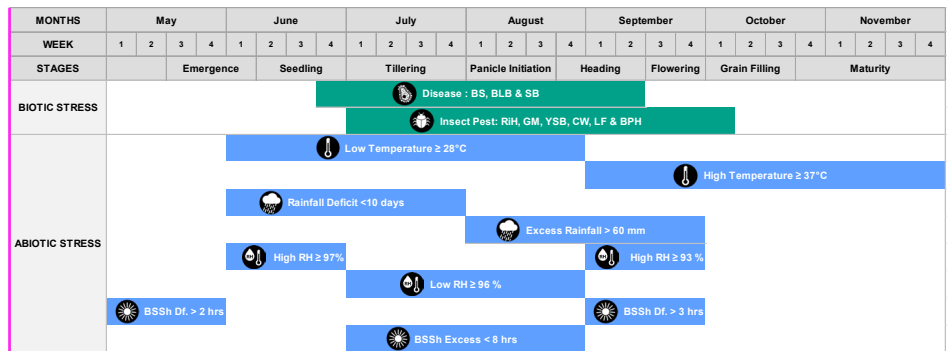
A brief overview of the commodity traded in the Agriota E-Marketplace.

Lot ID	LOT45R10
HSN Code	10061090
Commodity	Paddy Basmati
Variety	Pusa Basmati 1121
Grade	Grade-2 (Band-I)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	20 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	1.59 MT
Allowable Lot Variance (-)	1.59 MT
Rights per Lot (No.)	4
Current Lot Size	22 MT
Contract Price (Per Unit)	₹ 2,200
Fees	0.02%
Taxes	2.50%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 48,400
Logistic Hub Location	Sri Gurunanak Warehouse, Batala, Gurdaspur, Punjab - 143505



Dynamic Crop Calendar (DCC)

It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase. The DCC helps estimate crop health, yield and risk for individual fields at various temporal and geo-spatial levels. DCC also helps in customised monitoring, alert generation and advisory activities.

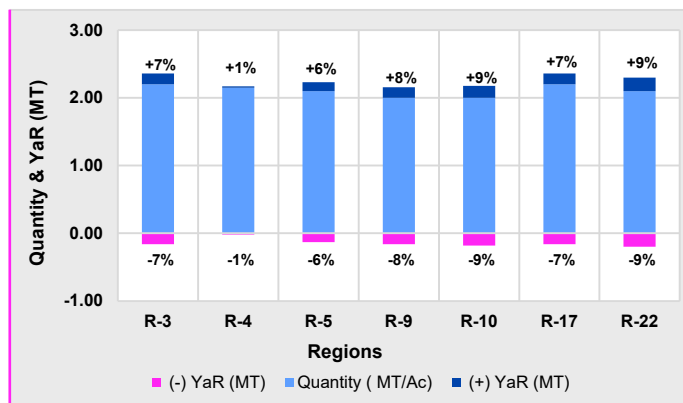


Note: BS Brown Spot, BLB Bacterial Leaf Blight, SB Sheath Blight, RH Rice Hopper, GM Gall Midge, YSB Yellow Stem Borer, CW Case Worm, LF Leaf Folder, BPH Brown Plant Hopper, BSSh Df Bright Sunshine Deficit



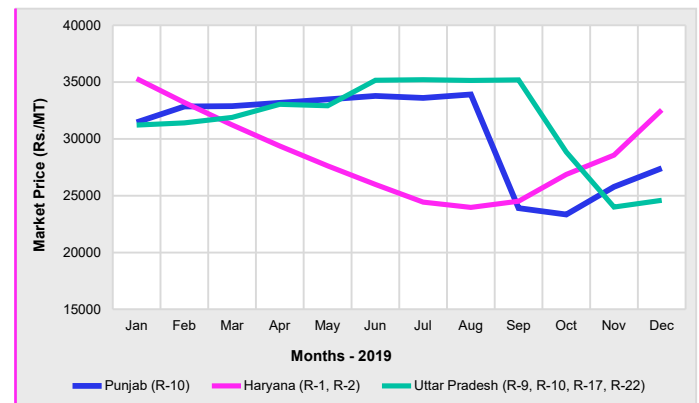
Yield at Risk (YaR) - Stability

The fluctuation/risk in yield or productivity varies from region to region. The region-wise variation on the yield is depicted in the graph below.



Price Volatility

The monthly fluctuations in price for different benchmark markets are shown below.



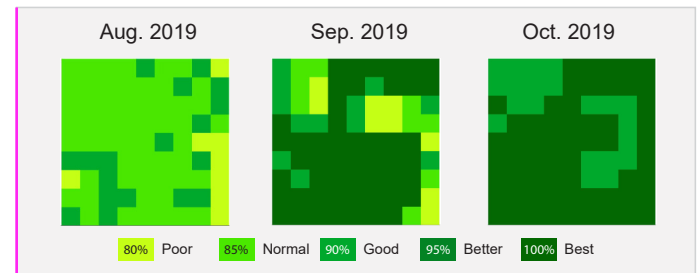
Aerial Photo

Aerial photo provides the visual representation of a the field periodically.



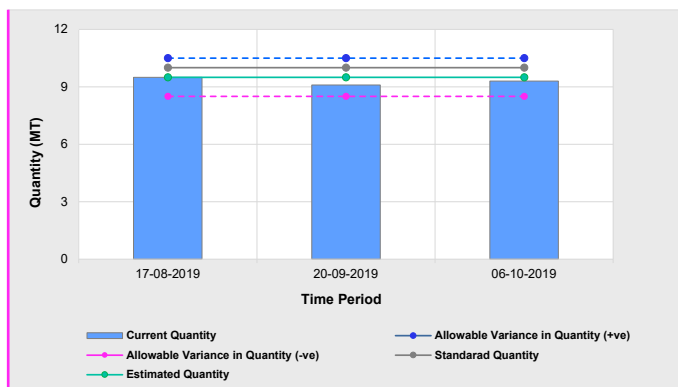
Multispectral Yield Analysis

Tool that provides a Normalised Differential Vegetation Index (NDVI) analysis of individual fields to ground-truth indices. It is standardised across time periods for quick visual interpretation.



Ground-Truth Risk Report

Real-time estimation of yield and its threshold at various stages of crop growth, based on field monitoring of plant health and detection of stress.



Multispectral Analysis

Normalised Differential Vegetation Index (NDVI) comparison of field versus regional indices across commodity, variety and phenophase.

