



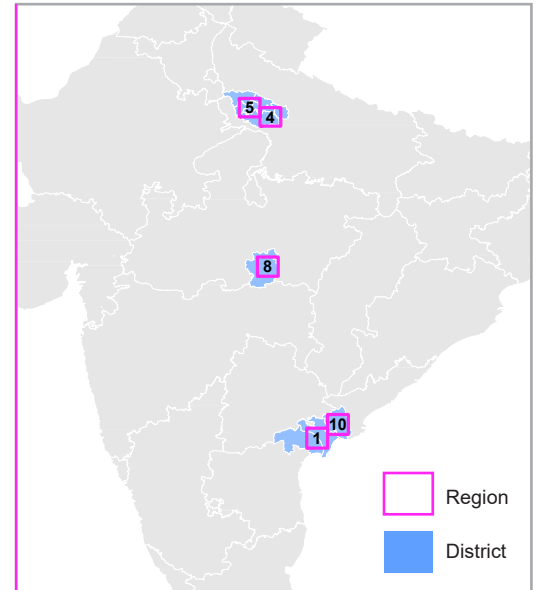
MAIZE



Focus Regions

Globally, maize is known as the queen of cereals because of its highest genetic yield potential among the cereals. In India, maize is the third-most important food crop after rice and wheat. Maize is cultivated throughout the year in all states of the country. Major maize-growing states are Karnataka, Madhya Pradesh, Bihar, Tamil Nadu, Telangana, Maharashtra and Andhra Pradesh. Nepal, Bangladesh, Vietnam, Pakistan and the Philippines are the export markets for maize.

Region ID.	State	Production	Risk Free Production	Available Production	Metric Tons (MT)
					Available Risk Free Production
R-8	Madhya Pradesh	6,06,982	5,72,358	24,279	22,894
R-10	Andhra Pradesh	2,60,681	2,37,610	26,068	23,761
R-4	Uttar Pradesh	2,46,746	2,25,572	24,675	22,557
R-1	Andhra Pradesh	1,57,641	1,48,292	15,764	14,829
R-5	Uttar Pradesh	1,15,266	96,964	11,527	9,696
R-303	Maharashtra, Madhya Pradesh	45,970	41,208	4,597	4,121



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
East Coast Plains & Hills (ECPH)	Andhra Pradesh	R-1	Krishna, Guntur	BH-1576 (DHM111), Buland (JH6805), Chandramani (R 2005-2), CoH (M)8 (CMH 08-292), DHM 119 (BH 4062), HM-8 (HKH1188), Prabal, Pro 311, Pusa HM8 (AQH-8), Seed Tech 2324, Vivek QPM 9 (FQH 4567), HQPM 5, Pioneer-P3552, Sugar-75
		R-10	West Godavari	
Western Plateau and Hills	Maharashtra, Madhya Pradesh	R-303	Betul, Amravati, Wardha	Prabal, VL 55 (FH3605), Pusa HM8 (AQH-8), Pusa Vivek QPM-9 (APQH9), Pusa Early Hybrid Makka-3 (AH-58), Buland (JH6805), HM-8 (HKH1188), BH-40625 (DHM-117), DHM 119 (BH 4062), Narmada Moti (IC-9001), Chandramani (R 2005-2), HQPM 5, Azad Kamal (R 9803), Bio 9782, CMH 08-282, CoH (M) 10 (CMH 08-433), DHM 121 (BH 41009), DMRH 1308, Jawahar Makka-216 (JM-216), PMH 5 (JH 31110), Pratap Makka-5 (EC-3116), Pro 311, ADV-759, ADV-751, Bioseed-9788, Bioseed-9546, CP-333, CP-999, Dekalb-9126, JKM-502, JKM-8110, JKM-4510, Kaveri-3110, Kaveri-8333, NK-30, P-3401, P-3502, Rasi- 6937, VNR-4226, VNR-4343
Upper Gangetic Plains (UGP)	Uttar Pradesh	R-4	Mainpuri, Etah, Farrukhabad	Bio 9681, DKC 9081, HM-12 (HKH 313), Malviya Hybrid Makka-2 (V-33), NK 61, PAU-352 (JH3982), PMH-1 (JH10655), Pro 311, Pusa HM9 (AQH-9), Seed Tech 2324, Sunny NMH 777, Vivek Hybrid-5, Dekalb-9108, Dekalb-9144, Dekalb-8181, Malik, TMBH-2814
		R-5	Etah, Kasganj, Firozabad, Hathras, Aligarh	
Central Plateau & Hills (CPH)	Madhya Pradesh	R-8	Chhindwara	Azad Kamal (R 9803), Bio 9782, CMH 08-282, CoH (M) 10 (CMH 08-433), DHM 121 (BH 41009), DMRH 1308, Jawahar Makka-216 (JM-216), Narmada Moti (IC-9001), PMH 5 (JH 31110), Pratap Makka-5 (EC-3116), Pro 311, ADV-759, ADV-751, Bioseed-9788, Bioseed-9546, CP-333, CP-999, Dekalb-9126, JKM-502, JKM-8110, JKM-4510, Kaveri-3110, Kaveri-8333, NK-30, P-3401, P-3502, Rasi- 6937, VNR-4226, VNR-4343



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	Dec	Jan
ECPH	R-1, R-10				Kharif					
UGP	R-4, R-5				Kharif					
WPH	R-303				Kharif					
CPH	R-8				Kharif					

Note: ECPH East Coast Plains & Hills, UGP Upper Gangetic Plains, TGP Trans-Gangetic Plains, WPH Western Plateau and Hills, CPH Central Plateau & Hills

■ Sowing ■ Mid season ■ Harvesting



Quality Specifications

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

No.	Maize	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
	Tradable parameters	221	222	223	224	225
I	Moisture (% by wt)	01.00 - 10.00	10.01 - 11.00	11.01 - 12.00	12.01 - 14.00	14.01 - 16.00
II	Foreign matter (% by wt)	00.01 - 01.00	00.01 - 01.00	01.01 - 01.50	01.51 - 02.00	02.01 - 03.00
III	Admixture/Other edible grains (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
IV	Damaged/immature & Shriveled grains (% by wt)	01.00 - 05.00	05.01 - 06.00	06.01 - 07.00	07.01 - 10.00	10.01 - 15.00
V	Weevilled Grains (% by count)	01.00 - 02.00	02.01 - 03.00	03.01 - 04.00	04.01 - 06.00	06.01 - 10.00



Contract Summary

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

Lot ID	LOT15MA09
HSN Code	10059000
Commodity	Maize
Variety	Prabal
Grade	Grade-2 (Band-I)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	12.00 MT
Bid Window Termination	48 Hrs
Allowable Lot Variance (+)	2.40 MT
Allowable Lot Variance (-)	1.20 MT
Rights per Lot (No.)	2
Current Lot Size	12.50 MT
Contract Price (Per Unit)	₹ 14,150
Fees	2.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 1,80,413
Logistic Hub Location	Madhuvan Warehouse, Khamra Rd, distt. Bichhua, Madhya Pradesh 480111



Dynamic Crop Calendar (DCC)

It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase wise. The DCC helps to 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.

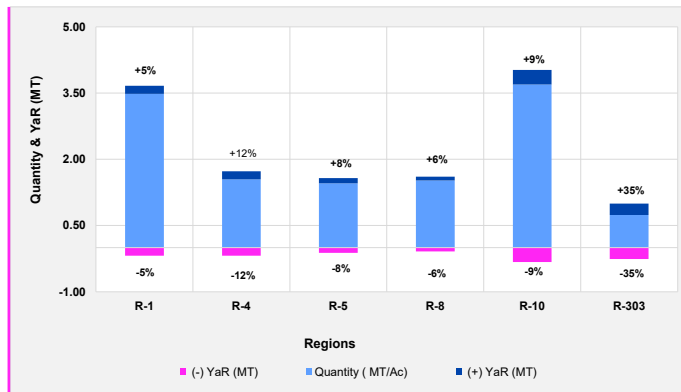
MONTHS	Jun				Jul				Aug				Sep	
WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2
STAGES	Seedling				Vegetative				Tasseling Silking				Maturity	
BIOTIC STRESS					Disease : CR, DM, MLB, TLB, BLSB									
	Insect Pest : RKN, CN, FAW, PSB, AP													
ABIOTIC STRESS	High winds : > 30 km/h.								Duration of Wet Spell : > 50 mm for 4 Days					
					Hail Storm									

NOTE: CR Charcoal Rot, DM Downy Mildew, MLB Maydis Leaf Blight, TLB Turicum Leaf Blight, BLSB Banded Leaf Sheath Blight, RKN Root Knot, CN Cyst Nematode, FAW Fall Army Worm, PSB Pink Stem Borer, AP Aphids



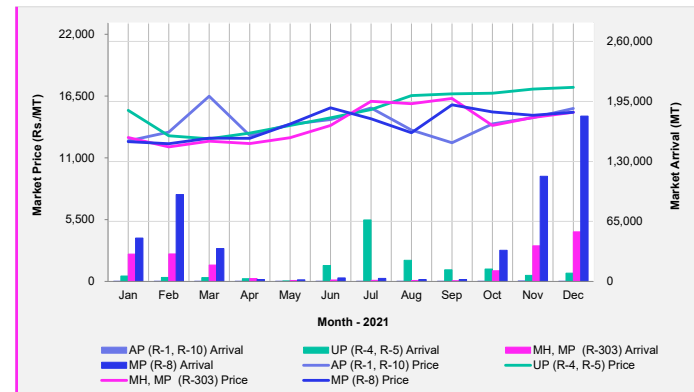
Yield at Risk (YaR) - Stability

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.



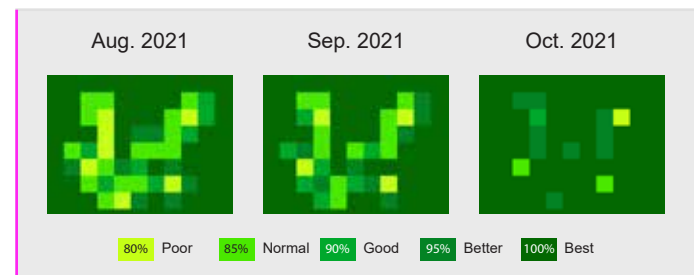
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



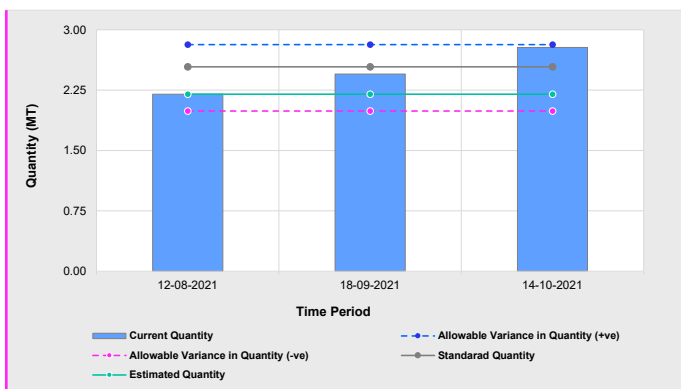
Multispectral Yield Analysis

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.

