

CITRUS

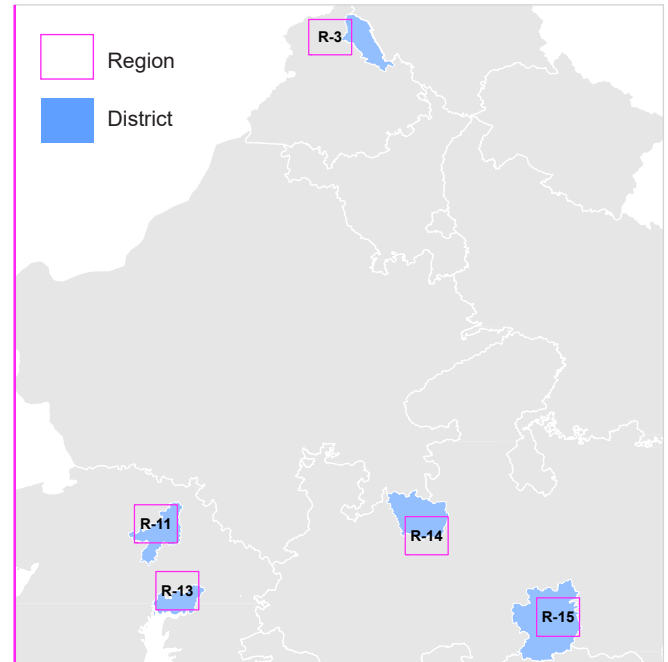


Pigeonpea, Arhar, or Tur is a native of India. It is the second most important pulse crop after gram and a major Kharif crop of the country. India ranks first in the area and production of Pigeonpea in the world. More than 90% production contribution of Pigeonpea is from 8 states namely Maharashtra, Karnataka, Madhya Pradesh, Uttar Pradesh, Gujarat, Jharkhand, Telangana, and Andhra Pradesh. India also exports red gram to many countries like Algeria, The United Arab Emirates (UAE), Sri Lanka, Turkey, and The United States of America (USA).

Unit - ('000' Tons)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-15	Madhya Pradesh	1,98,256	1,98,230	13,878	13,876
R-11	Gujarat	1,17,734	1,05,879	11,773	10,588
R-14	Madhya Pradesh	89,738	88,965	8,974	8,896
R-13	Gujarat	52,728	52,367	5,273	5,237
R-3	Punjab	16,346	16,256	1,635	1,626

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Gujarat Plains and Hills (GPH)	Gujarat	R-11, R-13	Mahesana, Kheda, Anand	Mandarin-Nagpur Mandarin Lime- Kagzi lime, Pramalini, PKM, Sai Sarbati, Vikram
Cental Plateau and Hills (CPH)	Madhya Pradesh	R-14, R-15	Rajgarh, Chhindwara	Mandarin-Nagpur mandarin Lime-Kagzi lime, Pramalini, PKM, Sai Sarbati, Vikram
Trans Gangetic Plains (TGP)	Punjab	R-3	Amritsar, Hoshiarpur	Lime- Kagzi lime Lemon- Punjab baramasi lemon, PAU baramasi lemon-1, Eureka, Punjab galgal Mandarin:- Desi, Kinnow Orange, PAU Kinnow-1, Daisy, W. Murcott Sweet Orange:- Malta (Common), Malta (Blood Red), Mosambi, Jaffa, Valencia late



Seasonal Calendar

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

Agro-climatic zone	Region	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
GPH	R-11, R-13												
CPH	R-14, R-15												
TGP	R-3												

Note: GPH Gujarat Plains and Hills, CPH Cental Plateau and Hills, TGP Trans Gangetic Plains

■ Sowing ■ Mid season ■ Harvesting



Contract Summary

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

Lot ID	LOT07CT07
HSN Code	08055000
Commodity	Citrus
Variety	Sai Sarbati
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	5.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	0.33 MT
Allowable Lot Variance (-)	0.65 MT
Rights per Lot (No.)	1
Current Lot Size	6.50 MT
Contract Price (Per Unit)	₹ 40,500
Fees	1.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 2,65,883
Logistic Hub Location	Rameshbhai, Unava, Unjha, Mahesana, Gujarat 384160



Quality Specifications

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

No.	Tradable parameters	Band - 1	Band - 2	Band - 3
I	Size in mm (diameter of the equatorial section)	66 to 80mm	55 to 65mm	Above 80&Below 55
II	Defects % by count (Max):- Scratches scars, scrapes and blemishes (0.5-2 sq. cm. of total surface area)	01.00 -02.00	01.00 - 05.00%	01.00 - 10.00
III	Slight bruising/minor cut/ (0.5 to 2 sq cm of total surface area)	01.00 -02.00	01.00 - 05.00%	01.00 - 10.00
IV	Total soluble solids (TSS) (minimum) in degree Brix (Min)	Not less than 10 degree brix		



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.

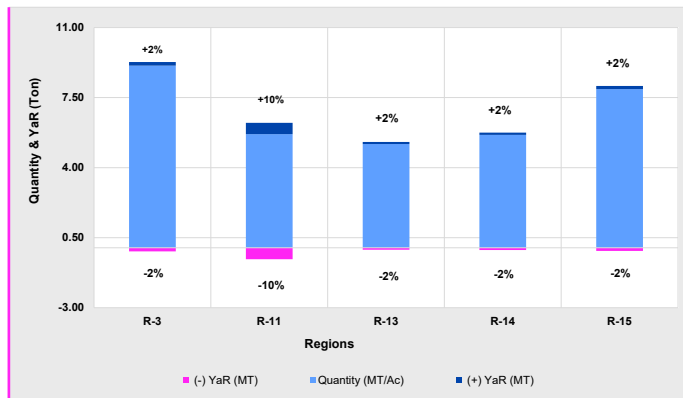
MONTHS	Jan				Feb				Mar				Apr				May				Jun				Jul				Aug				Sep				Oct			
WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
STAGES	New Flush				Flowering				Fruit Setting				Fruit Development				Colour Breaking				Fruit Maturity																			
BIOLOGICAL STRESS																																								
ABIOTIC STRESS																																								

Note: CG Citrus Greening, CC Citrus Canker, AT Anthracnose, PM Powdery Mildew, CP Citrus Psylla, LM Leaf Minor, LB Lemon Butterfly, WF White Fly, BF Black Fly



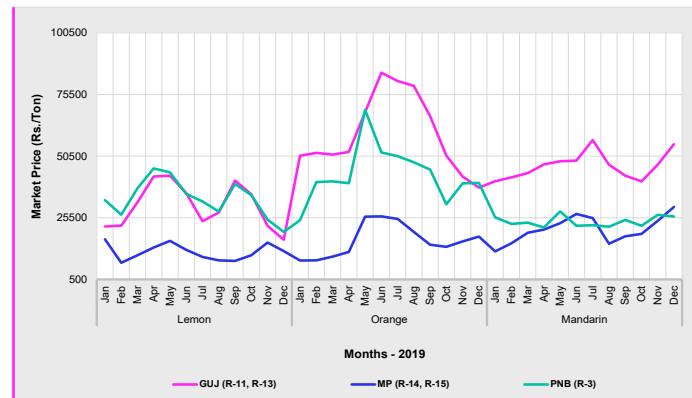
Yield at Risk (YaR) - Stability

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.



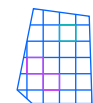
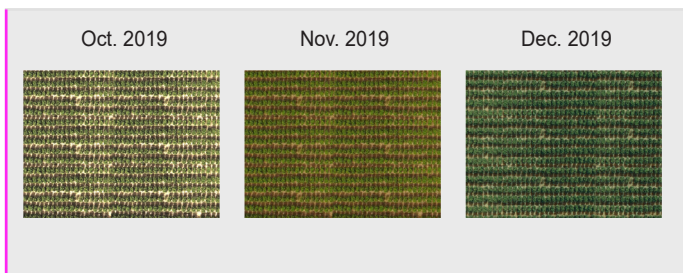
Price Volatility

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



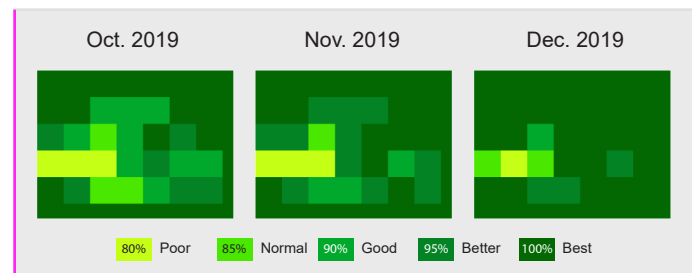
Aerial Photo

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



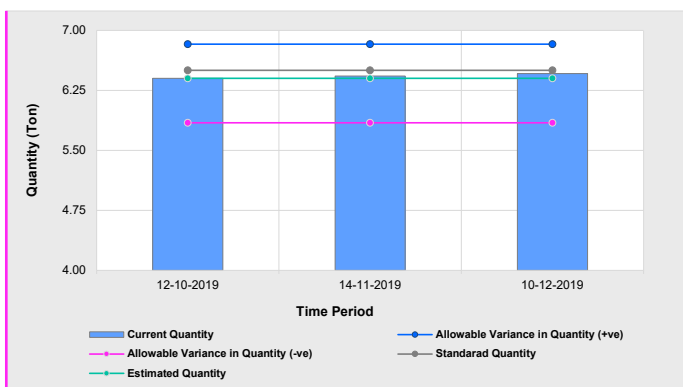
Multispectral Yield Analysis

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.

