

# Paddy DSR Report

## PLOTS DISTRIBUTION (COMPARATIVE AND PILOT)

	TOTAL PLOTS	DAMAGED PLOTS	GOOD PLOTS	AVAILABLE YIELD PLOTS
COMPARITIVE	82	20	62	55
PILOT(UP)	10	3	7	7
<b>TOTAL</b>	<b>92</b>	<b>23</b>	<b>69</b>	<b>62</b>

### Abbreviations:

PH : Plant Height

PL : Panicle Length

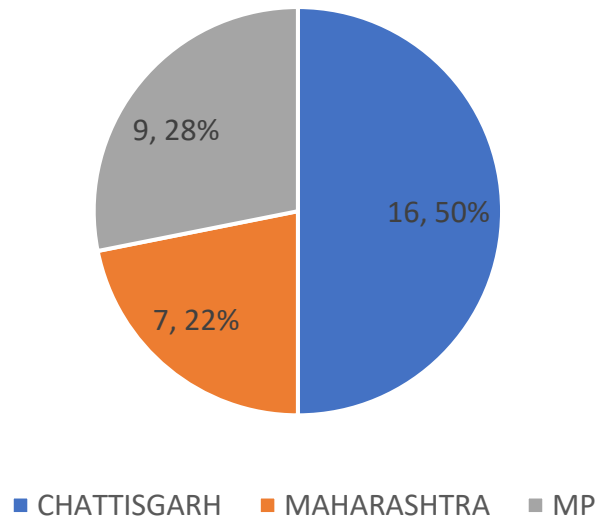
FD : Ferrous Deficiency

PD : Panicle Density

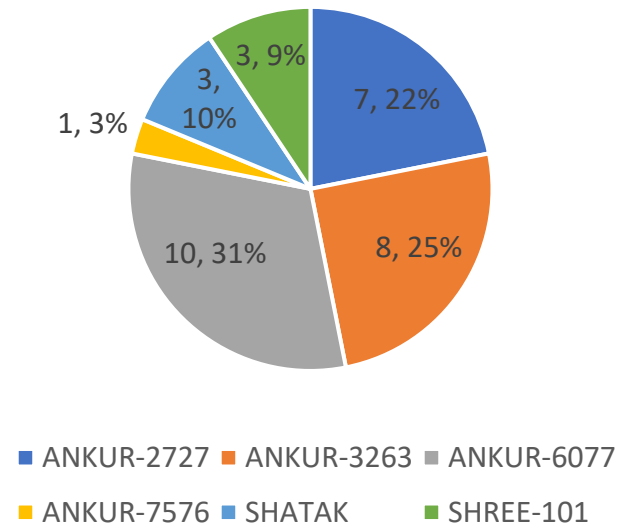
# CENTRAL ZONE

- *Plots Planned: 45, TOTAL PLOTS: 32*

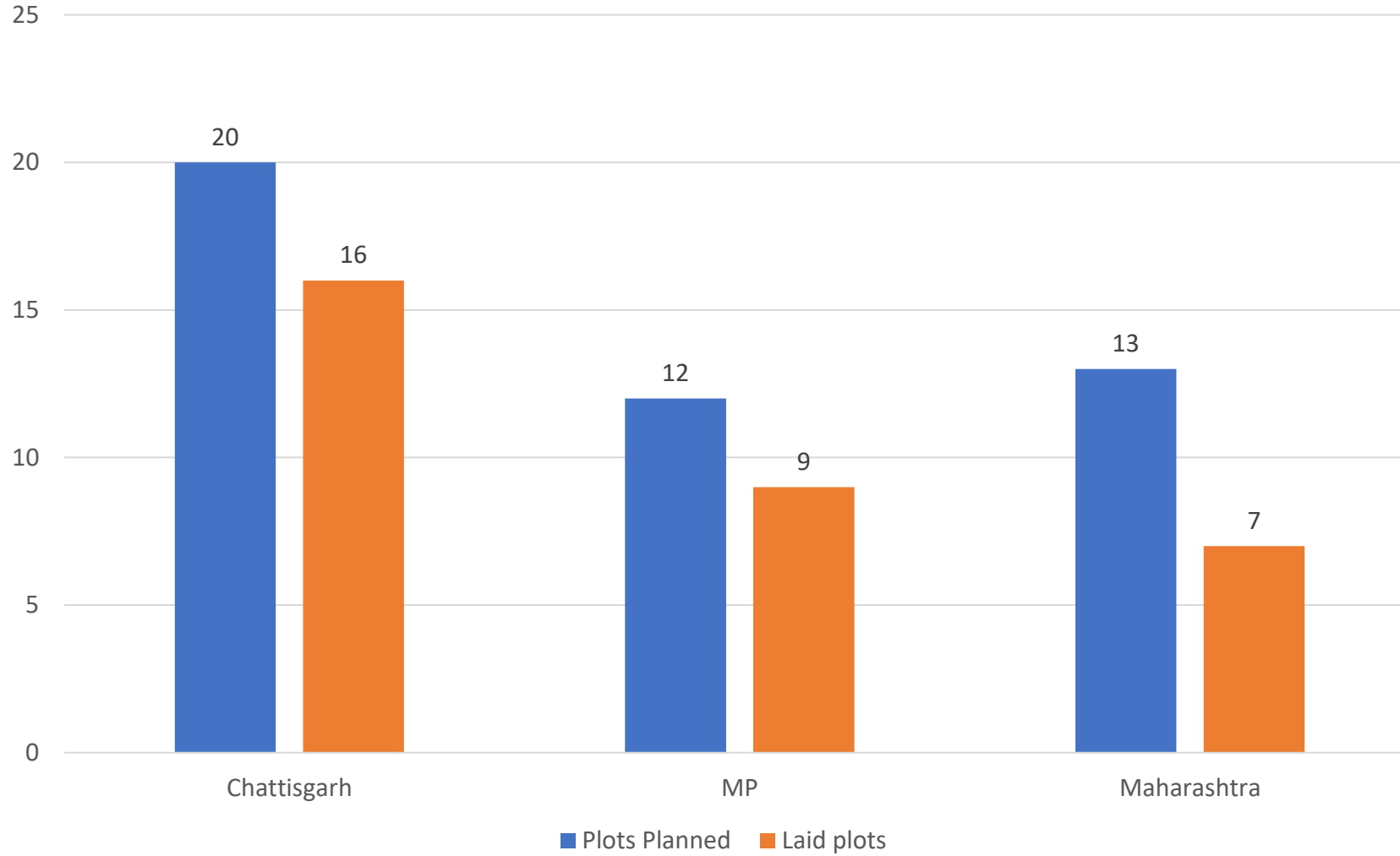
PLOTS



HYBRIDS



State-Wise Distribution of Plots

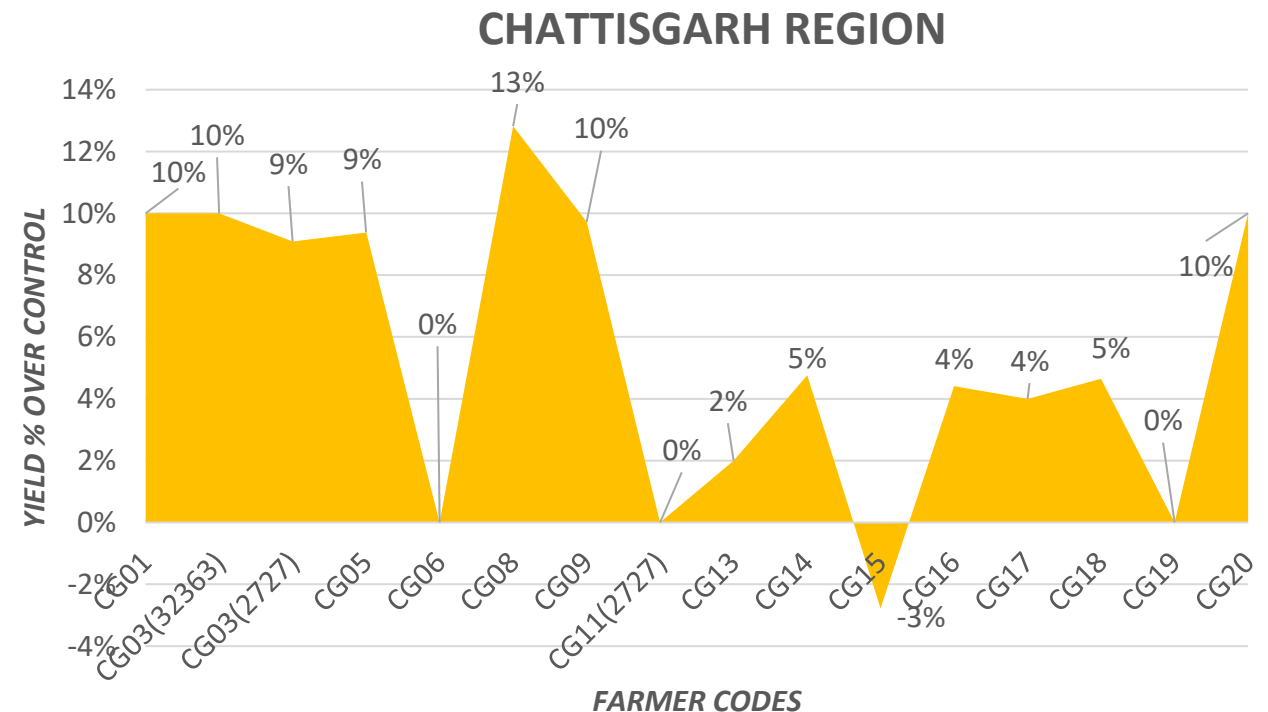


# Chattisgarh

## District-Wise

- All the plots are of WET DSR Type. 12 plots are of Drum & 4 plots are broadcasted.

District	Pre-Flowering Observations	% yield over Control plot
Sarguja	Vigour in CG01, Vigour, FD & Uniformity in CG09	10% in CG01 and CG03, 9.72% in CG09
Surjapur	Vigour in CG05	13% in CG08, 9.38% in CG05
Jashpur	Uniformity & Vigour in CG17	10% in CG20. CG11 & 19 same, 4-5% in 14,16,17,18. 2% in CG13. -2% in CG15



# Hybrid-Wise

Hybrid	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot
Ankur-32363	Vigour, FD & Uniformity in CG09, Uniformity & Vigour in CG17	Plant Height in CG17,6,3	10% in CG03, CG09 & CG20, 13% in CG08. CG06 & CG19 same, 0-4% in CG13, CG17
Ankur-2727	Vigour in CG01	Plant Height in CG01,11,15 & 18 -	10% in CG01. 9% CG03 & CG05, 5% in CG14,16,18. 9.38% in CG05



**CG09**

20 Days After Sowing



**CG05**

13 Days After Sowing





# MP

## District-Wise & Hybrid-Wise

- 5 Drilled & 4 broadcasted.

District & Hybrid	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot	Remark
Mandala (Ankur-6077) (9 plots)	FD in 4 broadcasted plots, 50% uniformity, H-M Vigour in 80% plots excluding MP01 & 2. All plots are greenish & 70% show Crop growth in Drilled method.	-	5.47% in MP01. 0-4% IN MP05,6,8,10, MP02 same	-1% yield in MP07 (Heavy false smut) & -8% in MP04 (Volunteer rice and landraces ). -4% in MP09.

In Madhya Pradesh, heavy false smut is observed. Volunteer rice and landraces have affected 40-45% of the plots.

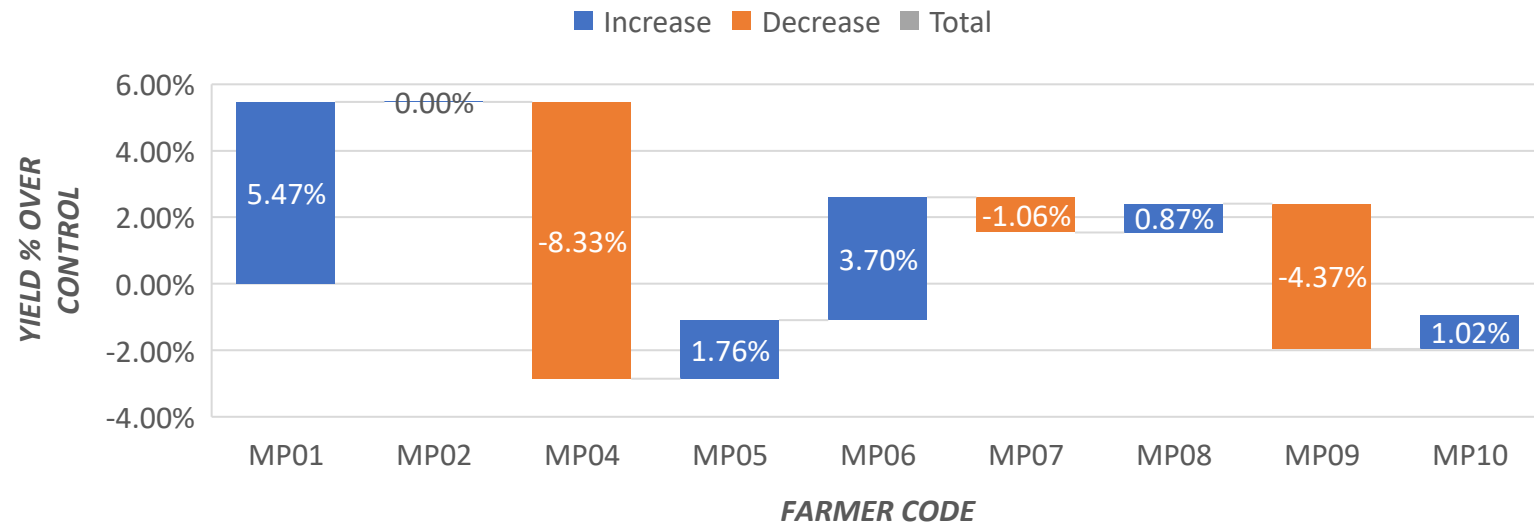


# MP01

37 Days After Sowing



## MP REGION

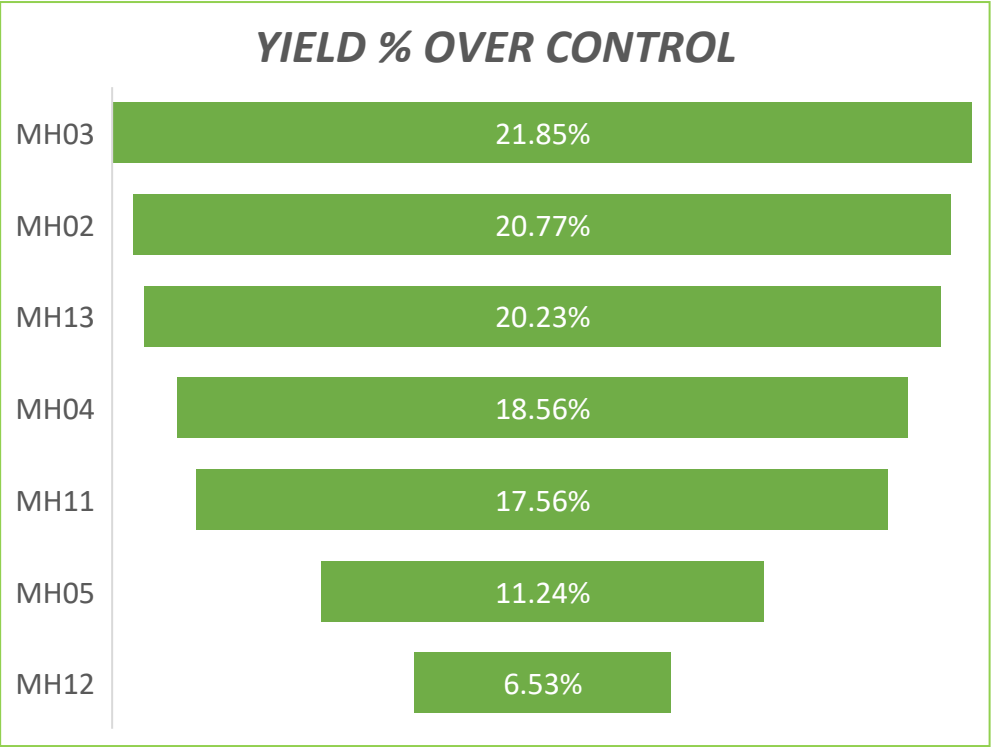


# Maharashtra

## District-Wise & Hybrid Wise

One plot is broadcasted in each district. Only 1 Hybrid 7576 in Bhandara. Wet plots & Drum method used in Bhandara & Dry plots with Drilled method used in Kolhapur.

District	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot	Remark
Bhandara (4 plots)	Vigour & Uniformity in MH04, greenish & Crop growth in 02,04	-	20-22% in MH02 and MH03. 17-18% IN MH04,11	7576 show High yield(9.8%) followed by SHATAK with 5-9% yield.
Kolhapur (3 plots)	Vigour, FD & Uniformity in CG09	PH in MH12, PD in all plots is effective.	17.56% in MH11, 6.5% in MH12 20% IN MH13	SHATAK Variety is used.





**MH04**

27 Days After Sowing



**MH02**

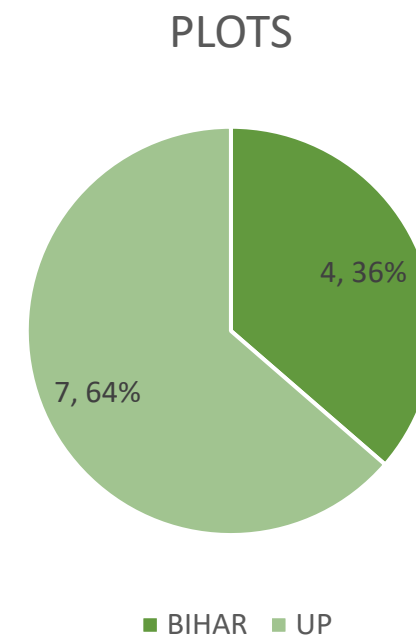
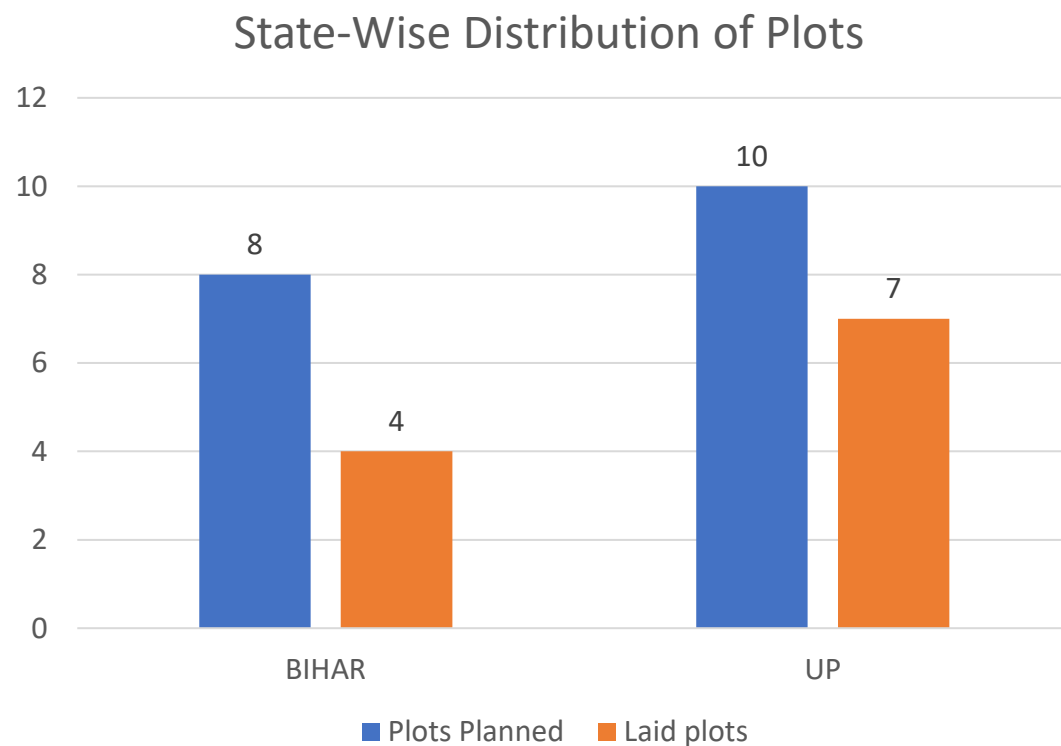
39 Days After  
Sowing





# NORTH ZONE

- *Plots Planned : 18, TOTAL PLOTS : 11*

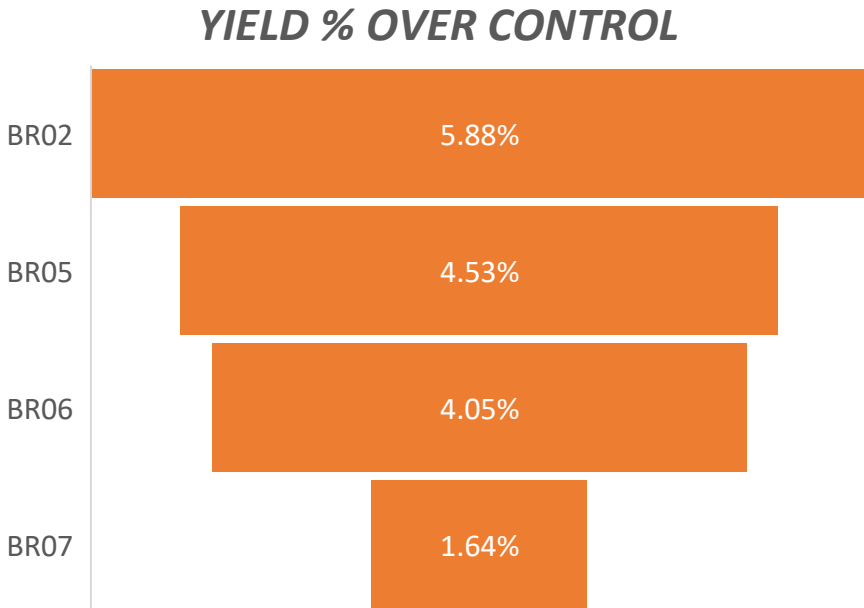


# Bihar

## District-Wise&Hybrid-Wise

- 2 plots are of Drilled & 2 plots are broadcasted. Only 1 Hybrid Ankur-6077 was used.

District	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot	Remark
Samastipur (2 Drilled plots)	FD is present	PH in BR02 (5cm diff)	4-5% in BR02&BR05	Wet & Dry method
Muzzafarpur (2 broadcasted plots)	-	PH & PL in BR06 Dry DSR	2% in BR07 4% IN BR06	



When we compare in Drilled and Broadcasted method, it is found that Drilled method gave high yield % of 5.2% than broadcasted with 2.8% yield.

# UP

## District-Wise

District	Pre-Flowering Observations	Post-Flowering Observations	Avg yield in Treated plot (Qt/Acre)	Remark
Pratapgarh (3 plots)	-	-	15.17	2 plots are broadcasted and 1 is drilled
Raibareilly (4 plots)	-	-	16.5	2 plots are damaged.
Jaunpur (3 plots)	-	-	19.5	1 plot damaged.

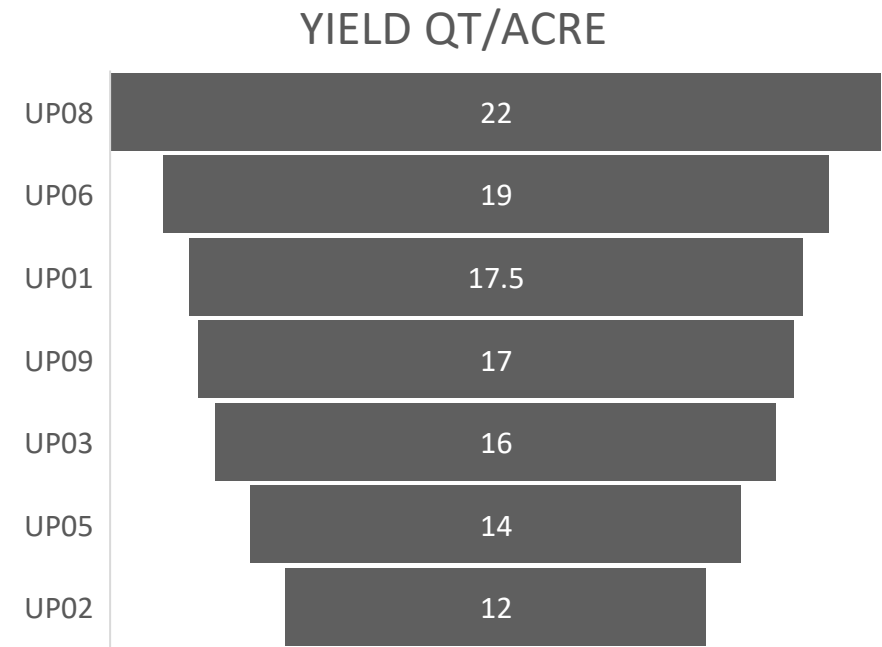
- 1) When we compare Drilled and Broadcasted method in Pratapgarh, it is found that Drilled method gave high yield of 17.5 Qt/Acre than broadcasted with 12 Qt/Acre yield.
- 2) When we compare Drum and Broadcasted method in Raibareilly, it is found that Broadcasted method gave high yield of 19 Qt/Acre than Drum with 14 Qt/Acre yield.



# Hybrid & Variety-Wise

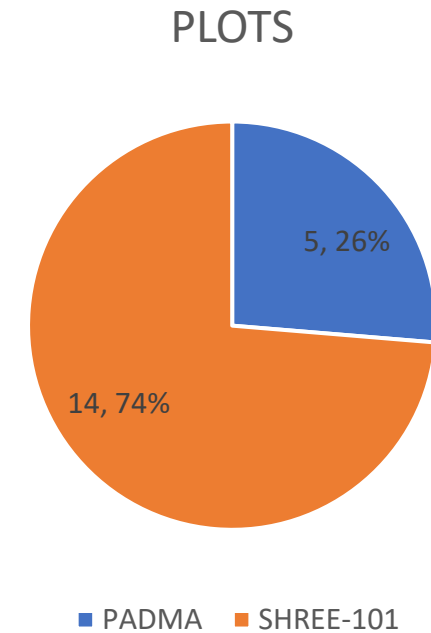
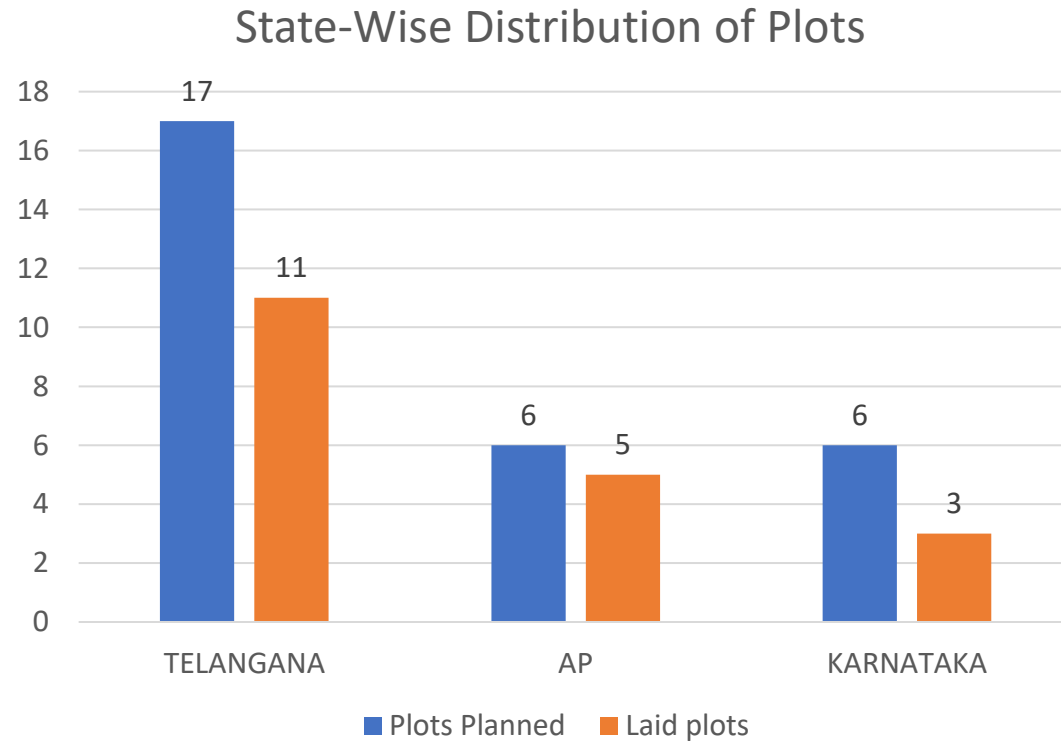
Hybrid	Pre-Flowering Observations	Post-Flowering Observations	Avg yield in Treated plot (Qt/Acre)	Remark
Ankur-6077 (5 plots)	-	-	16	2 damaged
Padma (5 plots)	-	-	17.375	1 damaged

- 1) No Yellowing and side effects on Crop growth is observed.
- 2) Again, when we compare Dry DSR of Padma Variety in Pratapgarh & Jaunpur by Drilled & Broadcasted method, the drilled method gave highest yield of 22 Qt/Acre than Broadcasted with 16 Qt/Acre.
- 3) When we compare Broadcasted method of H-6077 Hybrid in Dry and Wet DSR Type, the Wet DSR Type gave highest yield of 19 Qt/Acre than Dry DSR Type with 12 Qt/Acre.



# South Zone

- *Plots Planned : 29, TOTAL PLOTS : 19*



PADMA variety was laid out in AP and the remaining variety SHREE-101 was laid out in Karnataka and Telangana.

# AP

## District-Wise & Variety-Wise

- In AP, Dry DSR type and Drilled method is used.

District	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot
Guntur(Padma)	Uniformity & Vigour in AP01. FD, uniformity & Vigour in AP04. Crop growth in AP01,03 & 04	PH diff, Culm Strength,PD & Field Maturity in AP01, No. of tillers in AP01 & 06	8-9% AP01,03 & 04. 4-5% in AP02 & 06.

**AP02**

154 Days After  
Sowing

TREATED

CONTROL



***YIELD % OVER CONTROL***

AP01

9.09%

AP03

8.96%

AP04

8.77%

AP06

5.41%

AP02

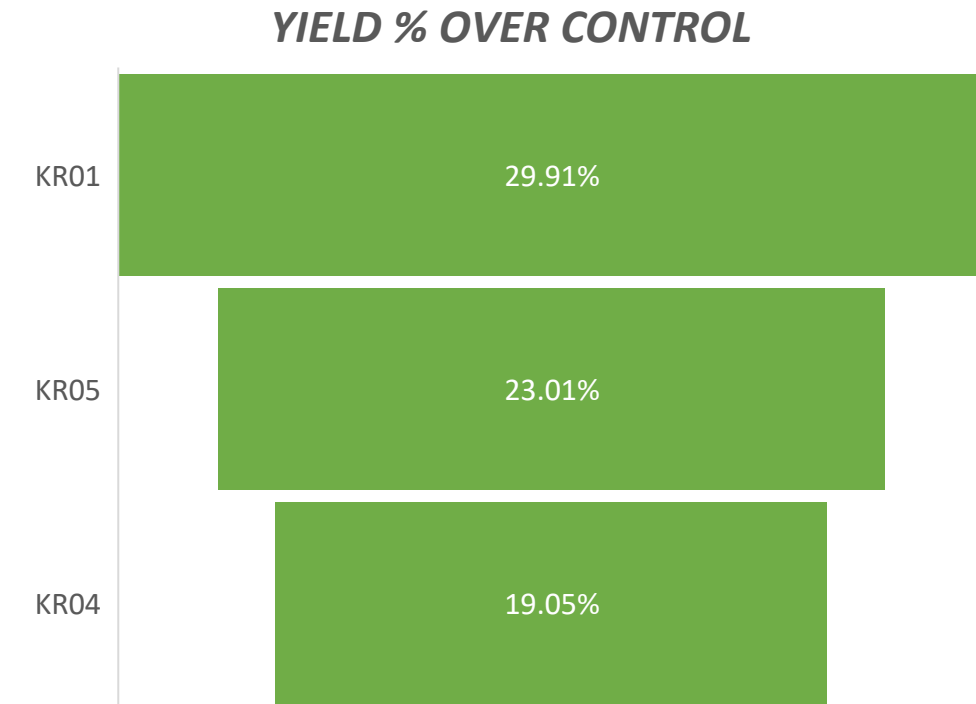
4.62%

# Karnataka

## District-Wise&Variety-Wise

- In Karnataka, Wet DSR type and Drum method is used.

District	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot
Dharwad (SHREE-101)	-	PH diff, Culm Strength,PD in KR01, No. of tillers in KR01 & 05	30% KR01. 23% in KR05.
Belgaw (SHREE-101)	Uniformity & Vigour in KR04. Crop growth is also seen	PH normal than Dharwad. PL is also effective.	19% IN KR04



# Telangana

## District-Wise&Variety-Wise

Only 1 hy. SHREE-101 is used. Drilled(DRY DSR)-3 plots, Drum(WET DSR)-7 plots & 1 broadcasted.

District	Pre-Flowering Observations	Post-Flowering Observations	% yield over Control plot	Remark
BHUPALPALLY (2 plots)	-	-	3.7% yield in TS13 & 4.22% IN TS14	WET DSR with Drum method
NALGONDA (5 plots)	Vigour in TS04 & TS05	-	10-11% and above yield in TS02, 04 & 05 and 4-5% yield in TS06 & 07	
SURYAPET (1 plot)	Uniformity & Vigour in TS09	-	5.41% yield in TS09	When we compare Drum & broad. Method, yield % is high in broad. Method than in Drum method.
WARANGAL (1 plot)	Vigour in TS11		3.78% yield IN TS11	
HANAMKONDA (2 plots)	-	PH in TS12	7.69% in TS15 & 4.75% in TS12	DRUM method.



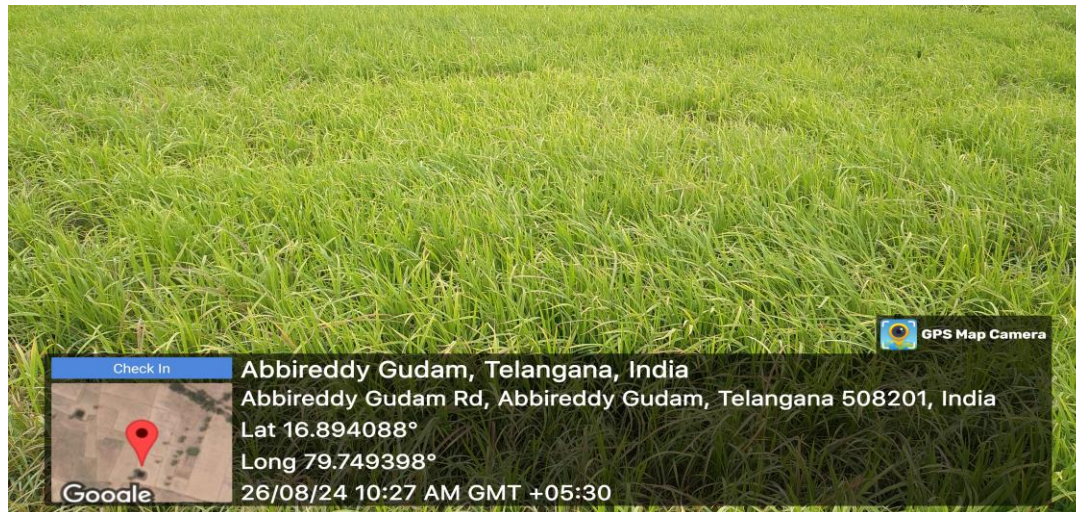
TS02

43 Days After Sowing



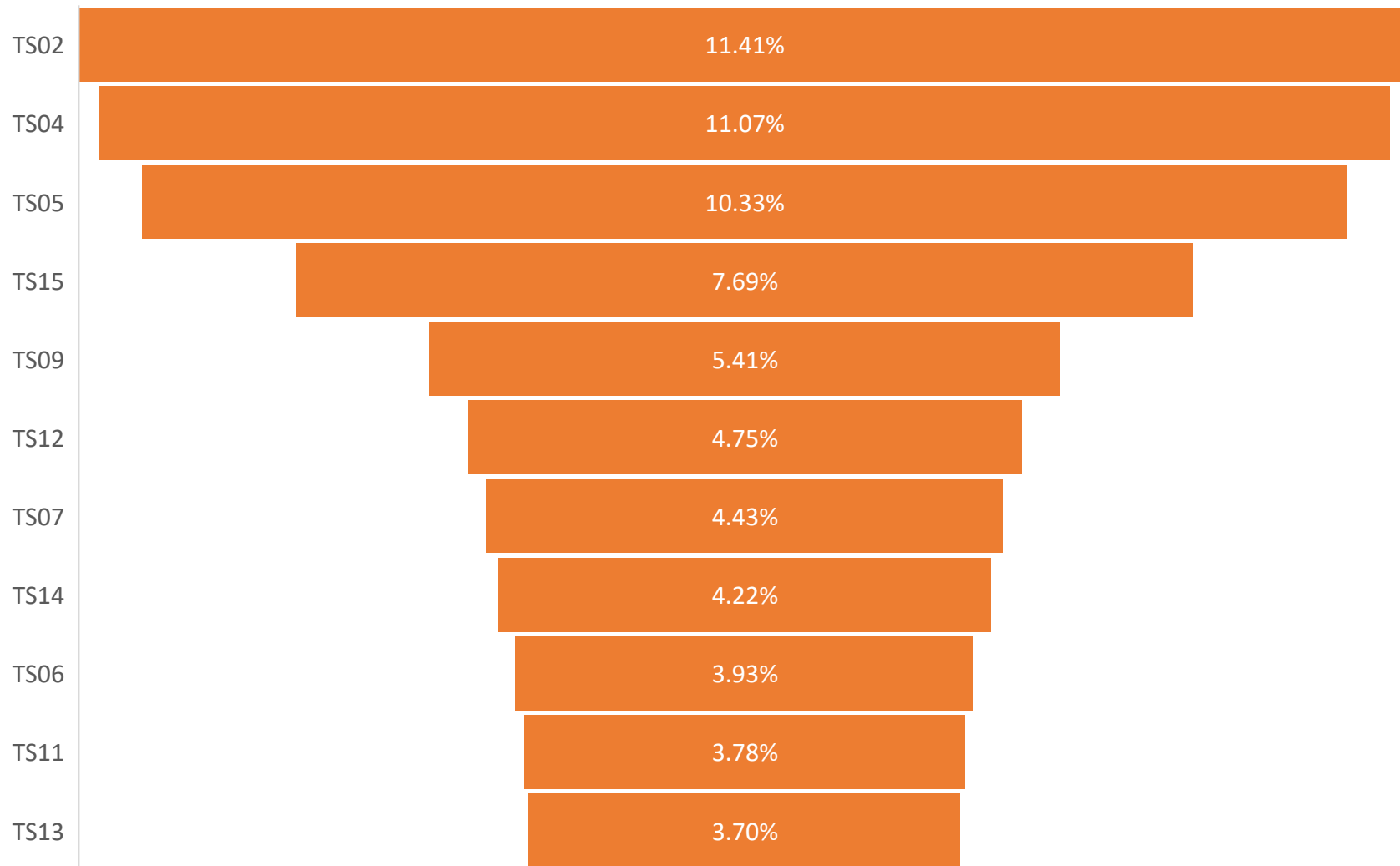
TS09

47 Days After Sowing





### ***YIELD % OVER CONTROL***



# Overall Summary

- Variety-Wise:

Variety	NO. OF PLOTS	AVG Yield % Over Control
SHREE-101	17	6.4%
PADMA	5	7.36
SHATAK	3	14.77

- Hybrid-Wise:

Hybrid	NO. OF PLOTS	AVG Yield % Over Control
Ankur-6077	13	1.17%
Ankur-32363	8	6.06%
Ankur-2727	8	4.9%
Ankur-7576	1	22%

Although, the number of plots is same for Hybrids Ankur-32363 and Ankur-2727, yield % over control is effective in 32363 than 2727.

- ZONE-WISE:

Zone	NO. OF PLOTS	AVG Yield % Over Control
Central	32	6.37%
North(Bihar)	4	4%
South	19	9.45%

- UP :

UP (HYBRID/VARIETY)	NO. OF PLOTS	AVG Yield (Qt/Acre)
PADMA	4	17.375
H-6077	3	16

- STATE-WISE:

STATE	No. of Plots	AVG Yield % Over Control
Andhra Pradesh	5	7.36%
Telangana	11	6.4%
Karnataka	3	24%
Chattisgarh	16	5.5%
Maharashtra	7	16.67%
Madhya Pradesh	9	-0.1%
Bihar	4	4%

In Madhya Pradesh, heavy false smut is observed. Volunteer rice and landraces have affected 40-45% of the plots.

THANK YOU