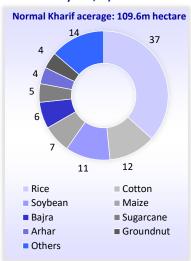
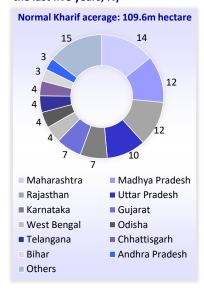


Agriculture

Crop-wise sowing area (average of the last five years, %)



State-wise sowing area (average of the last five years, %)



Farm profitability to be marginally higher for Kharif 2024-25

We interacted with various Farmer Produce Organizations (FPOs) and farmers across India to gauge the on-ground situation regarding crop conditions, yields, and farm profitability during the Kharif season in CY24. The key takeaways are:

- The northern belt of India witnessed higher crop yields YoY as higher rainfall supported the production of paddy. The southern belt and Gujarat were key laggards as the heavy downpours resulted in floods and significant crop losses.
- Overall, the production is expected to improve, led by higher sowing (up 1.9% YoY and 1.1% above the normal average area) and above-normal monsoon season (~8% above normal levels).
- According to the First Advanced Estimate of the Ministry of Agriculture & Farmers' Welfare, overall production of food grains/oilseed (cumulatively accounted for ~84% of the total acreage in CY24) is expected to increase 6%/7% YoY, while that for other key crops, such as sugarcane/cotton, is expected to decline 3%/8% YoY.
- However, the declining crop prices (prices of key food grains and oil seeds have declined 3.2% YoY) have partially offset the benefits from higher production during the year. Nonetheless, the cost of cultivation has marginally declined ~1.3% during the Kharif season due to controlled inflation and a high base effect.
- Accordingly, we expect overall farm profitability to be marginally higher on pan India basis for the Kharif season 2024-25. Further, the higher reservoir levels (filled at ~86% of their total capacity v/s 70% in the previous year and the average of ~73% in the last 10 years) and higher sowing of Rabi crops (up 2% YoY as per the latest available data) promise a brighter outlook for the Rabi season.

Farm profitability to be better in North India; Southern belt and Gujarat adversely impacted by heavy rains

- The overall farm profitability is expected to be marginally better across the northern belt of India (major states include Bihar, Punjab, Madhya Pradesh, Uttar Pradesh, Haryana, and Rajasthan), led by a healthy monsoon season and relatively lower crop damages. However, extreme heavy showers in the latter part of the season affected yields in states such as Rajasthan (rainfall of ~140%/83% above the normal level in Aug/Sep'24) and Haryana (~29%/36% above the normal level).
- The southern belt of India is likely to witness a muted Kharif season as yields are expected to decline due to a heavy downpour and flooding in several regions. This, coupled with lower prices of key crops, is likely to result in muted to marginally lower farm profitability.
- Farm profitability in the western and eastern regions of India is expected to be a mixed bag, with Maharashtra and West Bengal witnessing a decent Kharif season. Farm profitability in Gujarat was hampered by abnormally high rainfall, which impacted crop yields in the state. Meanwhile, erratic rainfall and the effects of cyclone also reduced crop yields in Odisha.
- The overall farm profitability is expected to be marginally higher at the pan India level, with the northern belt performing relatively better than the southern belt, while the eastern and western belts were a mixed bag.

MOTILAL OSWAL

Higher sowing and above-normal monsoon (on pan India level) to lead to better output

- The total **area sown** in the CY24 Kharif season was slightly higher (up 1.9% YoY and 1.1% above the normal average area) at 110.9m hectares. Among the major crops, the area sown under arhar/groundnut witnessed the highest increase of 14%/9% YoY, while cotton witnessed the highest decline of 9%.
- According to IMD, rainfall during the CY24 monsoon season (from 1st Jun'24 to 30th Sep'24) stood at 935mm, 8% above normal rainfall levels of 869mm. However, it continues to be erratic (11% deficient in Jun'24 followed by 9%/15%/12% excess in Jul/Aug/Sep'24).
- At the sub-divisional level, 21 sub-divisions (covering 54% of the total area of India) experienced normal rainfall during the CY24 monsoon season, while 2/10/3 sub-divisions (covering 9%/26%/11% of the total area of India) experienced large excess/excess/deficient rainfall.
- According to the First Advance Estimate of Crop Production released by the Ministry of Agriculture & Farmers' Welfare for FY25, the production of Kharif food grains/oilseeds (cumulatively accounted for ~84% of the total acreage in CY24) is expected to increase 6%/7% YoY to ~165/26MMT.
- > The increase in the production of food grains is supported by higher production of rice (up 6% YoY to ~120MMT) on account of the higher-than-normal rainfall during the current monsoon season.
- > The sugarcane output is expected to decline 3% to ~440MMT in the current year, while cotton output is expected to decline 8% YoY to ~29.9m bales.

Lower crop prices partially offset higher production; lower cost of cultivation leads to marginally higher profitability

- Overall input cost is estimated to have marginally declined by ~1.3% YoY (refer to Exhibit 14) in the CY24 Kharif season (Jun-Sep'24) due to controlled inflation and a high base effect.
- Human labor costs account for ~51% of the total cost of cultivation (on average for key Kharif season crops). The same declined 1% YoY in the CY24 Kharif season. Apart from the cost of seeds and fodder (up ~4% YoY), other costs (including high-speed diesel, irrigation (electricity) charges, and insecticides) were largely flattish or down on a YoY basis.
- Prices (as of Dec'24) of key Kharif food grains and oilseeds such as rice, arhar, bajra, maize, soybean, and groundnut declined ~3.2% (refer to Exhibit 17) as compared to average harvest season prices of the previous year (Oct'23 to Jan'24, calculated on a weighted average basis of its estimated production). The Fair and Remunerative Price (FRP) of sugarcane rose 7.9% YoY to INR340 per quintal, while cotton prices grew ~3%.
- The production for Kharif season is expected to be higher on a YoY basis, driven by marginally better sowing and higher yields.
- Accordingly, lower crop prices will partially offset the benefits of higher production and lower cost of cultivation. We expect the farm profitability for key Kharif crops to be marginally higher.

MOTILAL OSWAL

Higher reservoir levels reflect brighter Rabi outlook

- Across our interactions with FPOs, the common commentary across the country was about the positive outlook on the upcoming Rabi season.
- The optimism was driven by higher groundwater levels coupled with healthy reservoir levels across India on account of higher-than-normal rainfall during the current monsoon season.
- Reservoir levels as of mid Nov'24 stood at 153 Billion Cubic Meters (BCM). This is significantly higher than 124 BCM recorded at the same time previous year and its last 10-year average of 130 BCM.
- In CY24, reservoirs are filled to 86% of their total capacity (v/s 70% in CY23 and 73% in the last 10 years).
- Further, the sowing of Rabi crops is progressing healthily (up 2% YoY till the first week of Dec'24, as per the latest data available)
- Accordingly, although we believe that the Kharif season was a mixed bag, with varying conditions across the country, the upcoming Rabi season is likely to yield good production. Farm profitability is likely to depend on changes in crop prices and inflation in the cost of cultivation.

View

- The prices of key Kharif crops have declined, impacting overall farm profitability for the Kharif season. However, this was offset by better production and lower cultivation costs, resulting in largely muted farm profitability across India for the Kharif season.
- The outlook for the upcoming Rabi season remains encouraging, as rainfall at the pan India level was over 8% of normal levels in CY24 southwest monsoon season (v/s 6% below normal levels in CY23), leading to higher reservoir levels (up 8% YoY) as of mid Nov'24.
- In the Fertilizer space, we have a BUY rating on CRIN. In the Agrochemicals space, we have a BUY rating on PI and GOAGRO and a Neutral rating on UPLL.

Exhibit 1: State-v	vise farm pro								
State	Crop	% of states sowing area (DES)	YoY change in sowing area	Yield change YoY	Price change compared to the previous harvest season (PAN India)	Crop-wise farm profitability compared to LY	Overall state farm profitability compared to LY	Qu im	alitative comment on yield pact
	Rice	44%	1%	Lower	-2%	Lower		*	The state witnessed heavy rainfall during the current
Andhra Pradesh	Groundnut	19%	-2%	Lower	-16%	Lower	Lower		monsoon season with certain regions witnessing floods,
	Cotton	18%	-2%	Lower	6%	Lower			resulting in higher crop damages.
	Rice	84%	0%	Higher	-2%	Higher	_	*	The state continued to witness rainfall deficit
Bihar	Sugarcane	6%	-3%	Higher	8%	Higher	Higher		(especially in southern parts) though the monsoon was
	Maize	6%	-14%	Higher	-4%	Higher			better than the previous year.
	Cotton	34%	-12%	Lower	6%	Lower		*	The abnormally high rainfall
	Groundnut	24%	17%	Lower	-16%	Lower			impacted the overall crop
Gujarat	Rice	11%	9%	Lower	-2%	Lower	Lower		yield in the state. Some regions witnessed flash
	Castor	3%	-16%	Lower	3%	Lower			floods, leading to the
	Bajra	5%	-15%	Lower	-2%	Lower	-		destruction of crops.
	Rice	51%	8%	Lower	-2%	Lower		*	The state experienced erration
Haryana	Cotton	24%	-28%	Lower	6%	Lower	Lower		monsoon with Jun/Jul'24 witnessing a dry spell, followed by excessive rain in
	Bajra	18%	4%	Lower	-2%	Lower			Aug/Sep'24.
	Arhar	20%	24%	Higher	7%	Higher		*	The state witnessed good monsoon during the current
Karnataka	Maize	18%	-3%	Higher	-4%	Higher	Higher		year (~4-7% above normal levels) compared to deficient
	Rice	13%	2%	Higher	-2%	Higher	-		rainfall in the previous year
	Cotton	10%	-2%	Higher	6%	Higher			(~10-28% below normal levels).
	Soybean	44%	1%	Neutral	-9%	Lower		*	Madhya Pradesh witnessed
Madhya Pradesh	Rice	18%	9%	Neutral	-2%	Lower	Lower		healthy monsoon season, but heavy rainfall in Oct'24 led to
, , , , , , , , , , , , , , , , , , , ,	Urdbean	12%	-23%	Neutral	3%	Higher			crop damage in certain
	Maize	10%	12%	Neutral	-4%	Lower			regions.
	Cotton	28%	-3%	Higher	6%	Higher		*	Maharashtra is likely to witness healthy production led by favorable conditions
	Soybean	28%	2%	Neutral	-9%	Lower			and lower crop losses this
Maharashtra	Rice	10%	-5%	Higher	-2%	Neutral	Higher		year. The state witnessed heavier-than-normal rainfall
	Arhar	8%	10%	Higher	7%	Higher			during the monsoon season, which led to crop losses,
	Sugarcane	7%	0%	Higher	8%	Higher			though the overall impact was not significant.
	Rice	81%	1%	Lower	-2%	Lower		*	Paddy production across the state is expected to be
Odisha	Cotton	4%	7%	Lower	6%	Neutral	Lower		affected in regions that experienced lower rainfall. Further, the state suffered
	Arhar	3%	13%	Lower	7%	Neutral			damage from a cyclone in late Oct'24.
	Rice	87%	2%	Higher -2% Higher		*	The state is likely to witness better yield compared to last		
Punjab	Cotton	7%	-50%	Higher	6%	Higher	Higher		year (CY23 was impacted by floods in key regions) despite
	Sugarcane	3%	21%	Higher	8%	Higher			lower-than-normal rainfall.
Paiasthan	Bajra	33%	-5%	Lower	-2%	Lower	Lower	*	Rajasthan experienced
Rajasthan	Moongbean	19%	5%	Lower	3%	Lower	Lower		extremely heavy rainfall

10 December 2024

State	Crop	% of states sowing area (DES)	YoY change in sowing area	Yield change YoY	Price change compared to the previous harvest season (PAN India)	Crop-wise farm profitability compared to LY	Overall state farm profitability compared to LY	Qualitative comment on yield
	Soybean	8%	13%	Lower	-9%	Lower		during the current monsoon
	Maize	7%	3%	Lower	-4%	Lower		season, leading to significant crop losses across the state.
	Rice	58%	-23%	Higher	-2%	Higher		The lower sowing levels are likely to be offset by better yields this year on account of
Tamil Nadu	Groundnut	9%	-4%	Higher	-16%	Lower	Higher	favorable crop conditions and the absence of
	Sugarcane	5%	-3%	Higher	8%	Higher		significant crop losses/damage (excluding a few regions).
	Cotton	43%	-2%	Lower	6%	Lower		The state witnessed very heavy downpour in Sep'24,
Talanaana	Rice	38%	-18%	Lower	-2%	Lower	Lower	leading to severe floods in
Telangana	Maize	6%	0%	Lower	-4%	Lower	Lower	multiple regions, adversely
	Arhar	6%	5%	Lower	7%	Lower		impacting overall production across the state.
	Rice	51%	6%	Higher	-2%	Higher		UP witnessed a healthy monsoon season in CY24.
Uttar Pradesh	Sugarcane	21%	3%	Higher	8%	Higher	Higher	However, some regions
Ottar Pradesii	Bajra	8%	0%	Higher	-2%	Higher	nigher	experienced floods led by the release of water from
	Maize	6%	18%	Higher	-4%	Higher		surrounding hilly areas.
	Rice	86%	4%	Higher	-2%	Higher		 With a favorable monsoon and absence of major natural
West Bengal	Jute	11%	-15%	Higher	3%	Higher	Higher	disasters, the state is expected to achieve much
	Urdbean	1%	16%	Higher	3%	Higher		better yields on a YoY basis.

Source: Agricoop, AgMarknet, MOFSL

Exhibit 2: Indian agrochemical and fertilizer companies witnessed subdued 1HFY25

Commonwe	Re	venue (INR r	n)	EI	BIDTA (INR n	n)		PAT (INR m)	
Company	1HFY24	1HFY25	YoY	1HFY24	1HFY25	YoY	1HFY24	1HFY25	YoY
Agrochemical									
UPL Ltd	1,91,330	2,01,570	5%	31,670	24,980	-21%	-230	-9,690	Loss
PI Industries Ltd	40,273	42,899	7%	10,192	12,114	19%	8,634	9,570	11%
Best Agrolife Ltd	16,273	11,714	-28%	2,741	2,016	-26%	1,854	1,159	-37%
Rallis India Ltd	16,140	17,110	6%	2,430	2,620	8%	1,450	1,460	1%
Paradeep Phosphates Ltd	67,374	62,213	-8%	2,174	5,725	163%	-305	2,330	L2P
DCM Shriram Ltd	57,625	62,031	8%	2,801	4,290	53%	888	1,632	84%
Bayer CropScience Ltd/India	33,568	33,688	0%	7,295	4,978	-32%	5,514	3,905	-29%
Deepak Fertilisers & Petrochem	47,372	50,281	6%	5,666	9,586	69%	1,702	4,056	138%
Dhanuka Agritech Ltd	9,870	11,476	16%	1,852	2,317	25%	1,347	1,669	24%
Insecticides India Ltd	13,359	12,838	-4%	1,276	1,611	26%	823	1,105	34%
India Pesticides Ltd	4,034	4,494	11%	497	621	25%	350	455	30%
Anupam Rasayan India Ltd	7,785	5,482	-30%	2,089	1,336	-36%	929	289	-69%
Sharda Cropchem Ltd	12,185	15,620	28%	-476	1,667	L2P	-1,162	697	L2P
Godrej Agrovet Ltd	50,811	47,995	-6%	3,943	4,495	14%	2,107	2,309	10%
Shivalik Rasayan Ltd	1,315	1,571	19%	210	211	1%	68	83	22%
Jubilant Ingrevia Ltd	20,798	20,305	-2%	2,340	2,283	-2%	1,151	1,077	-6%
Aggregate	5,90,112	6,01,284	2%	76,701	80,850	5%	25,119	22,107	-12%
Fertilizer									
Coromandel International Ltd	1,26,815	1,21,617	-4%	17,679	14,805	-16%	12,509	9,733	-22%
Gujarat Narmada Valley Fertili	37,320	39,380	6%	2,740	2,430	-11%	2,700	2,230	-17%
Gujarat State Fertilizers & Ch	51,816	47,977	-7%	3,797	3,935	4%	4,214	3,856	-9%
Chambal Fertilisers and Chemic	1,09,748	92,794	-15%	12,483	15,422	24%	7,196	9,847	37%
Aggregate	3,25,700	3,01,768	-7%	36,699	36,592	0%	26,619	25,666	-4%

Source: BBG, Screener, MOFSL

Poor climatic conditions affect production in the southern belt; northern states better positioned in terms of farm profitability

We interacted with various FPOs and farmers across India to gauge the on-ground situation regarding crop conditions, quantum of rainfall, cost of cultivation, and farm profitability during the Kharif season in CY24. Below are the key highlights:

Crop yields in the northern belt of India are expected to be better than the previous year, with majority of the states expected to report improved farm profitability. However, extreme heavy showers in the latter part of the season (Aug/Sep'24) hampered production across Rajasthan and Haryana.

Uttar Pradesh (UP)

- Paddy/sugarcane are some of the key crops grown in the state during the Kharif season, accounting for 48%/22% of the total acreage in CY24. The state witnessed higher sowing in the current year (up 6% YoY).
- UP witnessed a healthy monsoon season in CY24, with west UP witnessing rainfall of ~11% above the normal level and east UP witnessing rainfall of ~7% below the normal level. However, certain regions witnessed floods led by the release of water from surrounding hilly areas.
- Overall, the state is likely to witness higher production due to healthy climatic conditions. The cost of cultivation has risen while crop prices are largely flattish.
 We expect the overall farm profitability to be slightly better on a YoY basis.

Bihar

- Paddy is the highest-grown crop in Bihar during the Kharif season, accounting for 82% of the total acreage in the current year. The sowing in the state was marginally down 1% YoY.
- The state continued to witness a rainfall deficit (~19% below normal levels), especially within the southern part of the state; although rainfall was slightly better than the previous year (~23% below normal levels in the monsoon season of CY23). Some of the regions in the state witnessed floods led by water release from hilly regions.
- According to our interactions with FPOs, production is expected to be slightly better than the previous year (as overall production in the state was impacted in the previous year too). This, coupled with the muted cost of cultivation, is likely to result in better farm profitability on a YoY basis.

Haryana

- The state witnessed lower sowing during the current Kharif season (down 2% YoY), led by lower acreage in bajra. Paddy/cotton/bajra are some of the highly grown crops in the state, accounting for ~57%/17%/16% of the sowings during the current year.
- The state experienced lower rainfall (3% below normal levels) in the CY24 monsoon season. However, the monsoon was very erratic as Jun/Jul'24 witnessed dry spells (rainfall of ~43%/41% below normal levels), followed by excessive rain in Aug/Sep'24 (~29%/36% above normal levels).
- The unfavorable climatic conditions are likely to lead to lower production during the current Kharif season. The cost of cultivation is largely similar or slightly higher within the state. Overall, we expect farmer profitability to be lower than last year.

Punjab

- Paddy is the highest-grown crop within the state during the Kharif season, accounting for 92% of the total acreage in CY24. The sowing in the state was marginally down 1% YoY.
- The state is likely to witness better production compared to last year despite the lower-than-normal rainfall (~28% below the normal level), as CY23 was impacted by severe floods in key regions. The cost of cultivation has not increased significantly.
- However, higher rainfall in Sep'24, followed by higher moisture content in crops, delayed harvesting and subsequent procurement. The overall farm profitability within the state is expected to be marginally better.

Rajasthan

- Bajra/mung bean are some of the key crops grown in the state during the Kharif season, accounting for 34%/18% of the total acreage in CY24. The state witnessed marginally lower sowing in the current year (down 1% YoY).
- Rajasthan experienced extremely heavy rainfall (~47%/71% higher than normal levels for East/West Rajasthan) during the current monsoon season, leading to significant crop losses in Rajasthan (~20-40% of the crops is expected to have been damaged). This will significantly hamper farm profitability in the state.

Madhya Pradesh (MP)

- Soybean/paddy/maize are some of the key crops grown in the state, accounting for 37%/25%/13% of acreage in CY24. The state witnessed flattish YoY sowing in the current year.
- Madhya Pradesh witnessed a healthy monsoon season (with regions receiving 13-23% higher rainfall than normal levels). However, heavy rain spells in Oct'24 resulted in crop damage in some regions.
- Overall production across the state is likely to be similar to last year. This, coupled with lower crop prices, is likely to result in a marginal dip in farm profitability.

Exhibit 3: Crop-wise sowing area mix in the northern belt of India for FY25 (%)

Kharif crops	Bihar	YoY change	Haryana	YoY change	Madhya Pradesh	YoY change	Punjab	YoY change	Rajasthan	YoY change	Uttar Pradesh	YoY change
Bajra	0	113	16	4	3	20	0		34	-5	8	0
Cotton	0		17	-28	4	-5	3	-50	4	-33	0	
Groundnut	0	11	0		4	9	0	25	7	1	2	20
Maize	7	-14	0		13	12	2	-11	8	3	6	18
Paddy	82	0	57	8	25	9	92	2	2	21	48	6
Soybean	0	-54	0		37	1	0		9	13	0	-25
Sugarcane	5	-3	3	-15	1	-11	3	21	0		22	3
Others	5		6		14		0		37		14	
Total	100	-1	100	-2	100	0	100	-1	100	-1	100	6

Source: Agricoop, MOFSL

Exhibit 4: Rainfall distribution in the northern belt of India (percentage of excess or deficiency over normal levels)

Cumulative rainfall (in mm)	Jun'24	Jun'23	Jul'24	Jul'23	Aug'24	Aug'23	Sept'24	Sept'23	Monsoon'2	4Monsoon'23	Oct'24	Oct'23
Uttar Pradesh												
East Uttar Pradesh	-49	-44	-10	-32	3	-15	14	-33	-7	-29	-91	15
West Uttar Pradesh	-4	30	-6	11	-18	-17	105	7	11	3	-99	-55
Bihar	-52	-48	-29	-48	-4	13	1	-12	-19	-23	-66	65
Haryana, Chandigarh, and Delhi	-43	49	-41	58	29	-60	36	-42	-3	-1	-95	2
Punjab	-46	21	-44	44	7	-62	-45	-17	-28	-5	-70	202
Madhya Pradesh												
East Madhya Pradesh	-28	27	12	-25	22	-16	29	30	13	-4	-54	-56
West Madhya Pradesh	7	1	16	19	11	-61	70	110	23	3	20	-94
Rajasthan												
East Rajasthan	1	118	1	20	82	-74	109	37	47	-1	-23	-91
West Rajasthan	-23	287	0	78	197	-92	58	22	71	42	-41	88
Chhattisgarh	-28	11	25	-10	1	-34	26	52	9	-6	-60	-51

Source: IMD, MOFSL

Crop yields in the southern belt of India are likely to be impacted by heavy rainfall and floods across several regions, resulting in muted to marginally lower profitability.

Karnataka

- Karnataka witnessed ~12% YoY rise in sowing, led by favorable environmental conditions during the sowing season. The rise in sowing was led by crops such as arhar (sowing up 24% YoY) and ragi (up 31% YoY).
- Arhar/maize/paddy/ragi are some of the key crops grown in the state, accounting for ~20%/20%/12%/9% of the total sowing.
- The state witnessed very good monsoon during the current year (~4-7% above normal levels) compared to rainfall deficiency in the previous year (~10-28% below normal levels).
- According to our interactions, the state was set to witness a strong year with increased production and better yields. However, the heavy rainfall in Oct'24 (~18-65 above normal levels) led to high crop losses in some regions. Nonetheless, farmers are still expecting better output led by higher yields during the year.
- The increase in crop prices is likely to be in line with the increase in the cost of cultivation. Overall, the farm profitability for the state is expected to be higher during the current year.

Andhra Pradesh

- Paddy/cotton/groundnut are the key crops grown in Andhra Pradesh, accounting for 52%/16%/12%. The state witnessed better sowing in the current year (up 5% YoY).
- Andhra Pradesh witnessed heavy rainfall during the current monsoon season (regions experiencing 18-33% higher rainfall than normal levels), with certain regions witnessing floods.
- Accordingly, overall production is expected to decline across the state. This, coupled with the increase in the cost of cultivation, is likely to result in a dip in farm profitability.

Tamil Nadu

Tamil Nadu witnessed lower sowing during the current Kharif season (down 3% YoY) led by lower acreage in paddy.

Paddy/groundnut/maize/sugarcane are some of the highly grown crops in the state, accounting for ~26%/17%/13%/13% of the sowings during the current year.

- The state experienced higher rainfall (18% above normal levels) in the CY24 monsoon season. According to the interaction, lower sowings are likely to be offset by better yields during the current year on account of favorable crop conditions and the absence of major crop losses/damage (excluding a few regions).
- However, the increasing cost of cultivation is likely to keep farm profitability muted during the year.

Telangana

- Paddy/cotton are the key crops grown across the state during the Kharif season (accounting for ~44%/40% of the total sowing area within the state). The state witnessed lower sowing compared to the previous year (down 8% YoY).
- Telangana witnessed 29% higher rainfall than normal levels during the current monsoon season. The state witnessed very heavy downpour in Sep'24 (~84% higher rainfall than normal levels), leading to severe floods in multiple regions, adversely impacting overall production across the state.
- Lower production, coupled with an increase in the cost of cultivation, will lead to a significant dip in farm profitability across the state.

Exhibit 5: Crop-wise sowing area mix in the southern belt of India for FY25 (%)

Kharif crops	Andhra Pradesh	YoY change	Karnataka	YoY change	Tamil Nadu	YoY change	Telangana	YoY change
Bajra	1	30	2	6	3	8	0	50
Cotton	16	-2	9	-2	0		40	-2
Groundnut	12	-2	4	4	17	-4	0	271
Maize	5	17	20	-3	13	-3	5	0
Paddy	52	1	11	2	26	-23	44	-18
Soybean	0	-31	6	6	0	-50	4	2
Sugarcane	1	-27	8	0	13	-3	0	-17
Others	13		40		28		7	
Total	100	5	100	12	100	-3	100	-8

Source: Agricoop, MOFSL

Exhibit 6: Rainfall distribution in the southern belt of India (percentage of excess or deficiency over normal levels)

Cumulative rainfall (in mm)	Jun'24	Jun'23	Jul'24	Jul'23	Aug'24	Aug'23	Sept'24	Sept'23	Monsoon'24	Monsoon'23	Oct'24	Oct'23
Karnataka												
NI Karnataka	26	-34	20	90	5	-72	-27	-8	4	-10	18	-90
SI Karnataka	-1	-42	74	60	12	-77	-45	17	7	-28	65	-35
Andhra Pradesh												
AP and Yanam	36	-34	52	49	7	-47	40	16	33	-3	-10	-90
Rayalaseema	122	-28	-24	-5	49	-55	-33	23	18	-13	51	-90
Tamil Nadu and Puducherry	115	6	12	-6	77	-3	-64	25	18	8	28	-45
Telangana	17	-50	33	120	-7	-65	85	39	29	15	-40	-93

Source: IMD, MOFSL

Crop yields in western India are expected to be a mixed bag; Maharashtra witnessed favorable conditions in most regions, while Gujarat was severely impacted by heavy rainfall and flash floods.

Maharashtra

- Soybean/cotton are the key crops grown across the state during the Kharif season, accounting for ~33%/26% of the sowing area in FY25.
- Maharashtra witnessed a marginal increase in sowing compared to the previous year (up 2% YoY), with maize/bajra witnessing the highest increase of ~17%/10%, respectively.
- According to IMD, Maharashtra witnessed heavy rainfall during the monsoon season, with Madhya Maharashtra/Konkan/Marathwada/Vidharbha experiencing 39%/29%/20%/17% higher rainfall than normal levels.
- According to our interactions with FPOs in the region, the on-ground situation is healthy. However, the production of soybeans within the state will be impacted due to the erratic nature of rainfall during the season. Very heavy rains, especially in Sep'24, led to significant crop losses in some regions. Farmers have not witnessed any significant damage caused to cotton crops by infestations. The overall yield within the state is expected to be healthy.
- Accordingly, better yields are likely to offset the lower crop prices, leading to better farm profitability across the state.

Gujarat

- Gujarat witnessed a marginal dip in sowing (down 1% YoY) as the increase in acreage in groundnut, soybean, and sugarcane was offset by lower sowing in bajra and cotton.
- Cotton/groundnut are the key crops during the kharif season, accounting for ~33%/27% of the sowing area in FY25.
- Gujarat experienced very heavy rainfall (30-75% higher than the normal level) during the current monsoon season, with Jul'24 witnessing ~48-158% higher than normal rainfall.
- According to our interaction and analysis, this abnormally high rainfall has impacted the overall crop yield across the state. Certain regions witnessed flash floods, leading to the destruction of crops.
- With an elevated cost of cultivation and lower farm income, the state is expected to witness a significant dip in farm profitability.
- However, with a good reservoir level, farmers are anticipating much better Rabi season.

Exhibit 7: Crop-wise sowing area mix in the western belt of India for FY25 (%)

Kharif crops	Gujarat	YoY change	Maharashtra	YoY change
Bajra	2	-15	3	10
Cotton	33	-12	26	-3
Groundnut	27	17	1	3
Maize	4	1	7	17
Paddy	12	1	9	-5
Soybean	4	13	33	2
Sugarcane	3	10	7	0
Others	15		14	
Total	100	-1	100	2

Source: Agricoop, MOFSL

Exhibit 8: Rainfall distribution in the western belt of India (percentage of excess or deficiency over normal levels)

Cumulative rainfall (in mm)	Jun'24	Jun'23	Jul'24	Jul'23	Aug'24	Aug'23	Sept'24	Sept'23	Monsoon'24	Monsoon'23	Oct'24	Oct'23
Maharashtra												
Marathwada	18	-69	35	71	-15	-74	45	2	20	-11	-3	-91
Vidarabha	-16	-49	67	43	-23	-51	32	21	17	-2	-28	-90
Madhya Maharashtra	10	-51	70	33	53	-64	3	27	39	-12	31	-72
Konkan and Goa	1	-28	69	73	-3	-56	36	41	29	11	84	-25
Gujarat												
Saurashtra and Kutch	-16	196	62	108	158	-96	9	13	75	47	182	-86
Gujarat Region	-42	30	20	32	48	-87	81	67	30	-2	91	-96

Source: IMD, MOFSL

Overall, the eastern region of India witnessed normal rainfall levels in the CY24 monsoon season; however, the erratic nature of rainfall and effects of the recent cyclone Dana are likely to lead to muted farm profitability in Odisha, while West Bengal is expecting better results compared to the previous year.

West Bengal

- Paddy is the single most grown crop within West Bengal, accounting for ~89% of the state's sowing area in FY25. The state witnessed slightly better sowing (up 2% YoY), led by 4% growth in acreage in Paddy.
- West Bengal witnessed normal monsoon this season as the deficiency in rainfall in Jun/Jul'24 (down 67%/2% YoY) was offset by heavy rainfalls in Aug/Sep'24 (up 39%/44% YoY). Meanwhile, in the previous year, the state witnessed a significant deficiency in rainfall (down 22% YoY in CY23).
- With a better monsoon and the absence of any significant natural disaster, the state is expected to witness much better production on a YoY basis. The impact of the recent Cyclone Dana (which occurred in late Oct) is yet to be fully quantified. However, most of the farmers did not witness any significant crop loss due to this cyclone.
- Farmers are witnessing better crop prices. Overall, the state is expected to experience higher farm profitability led by healthy production.

Odisha

- Odisha is also a paddy-dominant state, with the crop accounting for ~69% of the sowing area in the state in FY25. This is followed by cotton/maize at ~5% each.
- The state witnessed 5% below normal rainfall levels in the CY24 monsoon season. According to our interactions, monsoon was uneven in the state, with certain regions witnessing good monsoon while other regions witnessing rainfall deficient.
- Paddy production is expected to be impacted in regions that witnessed lower rainfall. Further, the state witnessed crop damages from the recent cyclone
 Dana. Accordingly, the state is likely to witness lower-than-normal production.
- With lower yields, muted crop prices, and a high cost of cultivation, overall farm profitability is expected to be lower.

Exhibit 9: Crop-wise sowing area mix in the eastern belt of India for FY25 (%)

Kharif crops	Odisha	YoY change	West Bengal	YoY change
Bajra	0	7	0	
Cotton	5	7	0	
Groundnut	1	-2	0	18
Maize	5	-7	1	-14
Paddy	69	1	89	4
Soybean	0		0	
Sugarcane	0	0	0	-20
Others	19		10	
Total	100	0	100	2

Source: Agricoop, MOFSL

Exhibit 10: Rainfall distribution in the eastern belt of India (percentage of excess or deficiency over normal levels)

Cumulative rainfall (in mm)	Jun'24	Jun'23	Jul'24	Jul'23	Aug'24	Aug'23	Sept'24	Sept'23	Monsoon'24	Monsoon'23	Oct'24	Oct'23
West Bengal	-67	-30	-2	-48	39	-6	44	-3	0	-22	50	27
Odisha	-27	-22	-20	-6	-8	-18	13	41	-5	-3	-36	-33

Source: IMD, MOFSL



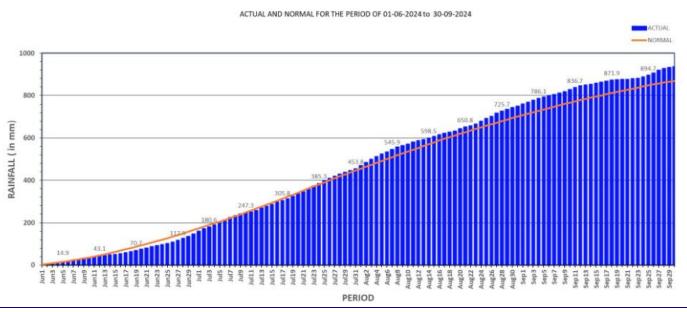
Source: IMD, Agricoop, MOFSL

Exhibit 12: ... while it was 6% below average in CY23

Source: IMD, Agricoop, MOFSL

Exhibit 13: Rainfall was deficient in Jun'24 but excessive in Aug-Sep'24

DISTRIBUTION OF CUMULATIVE RAINFALL - GRAPH COUNTRY INDIA



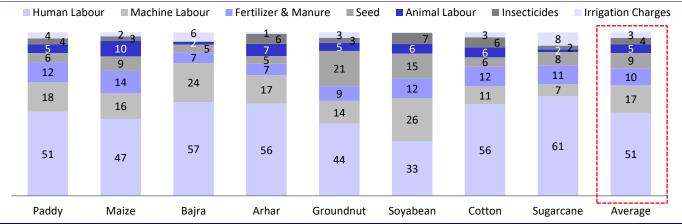
Source: IMD, MOFSL

Exhibit 14: Change in cost of cultivation on YoY basis

Particulars	Cost of c	ultivation	Change in
Particulars	Old	New	Cost (%)
Human labor	51	50.7	-0.6
Machine labor	17	16.6	-2.5
Fertilizer and Manure	10	10.0	-0.1
Seed	9	9.4	4.0
Animal labor	5	5.2	4.0
Insecticides	4	3.8	-4.1
Irrigation charges	3	3.0	-0.3
	100	98.7	-1.3

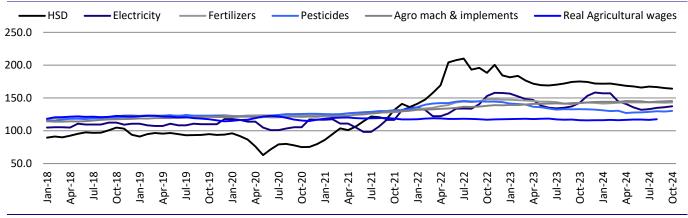
Source: eands.dacnet, WPI, Ministry of Labor and Employment, MOFSL

Exhibit 15: Expense-wise breakup of the cost of cultivation (%)



Source: eands.dacnet, MOFSL

Exhibit 16: Trend of cost of cultivation



Source: MOFSL

Exhibit 17: Price rise in key food grains over the previous Kharif harvest season

Particulars	Production	Weig	YoY price	
Particulars	(in MMT)	Old	New	Change (%)
Paddy	119.9	66	64.9	-2%
Tur	3.9	2	2.3	7%
Bajra	9.4	5	5.1	-2%
Maize	24.5	14	13.0	-4%
Soybean	13.4	7	6.8	-9%
Groundnut	10.4	6	4.8	-16%
Total	181.5	100	96.8	-3.2%

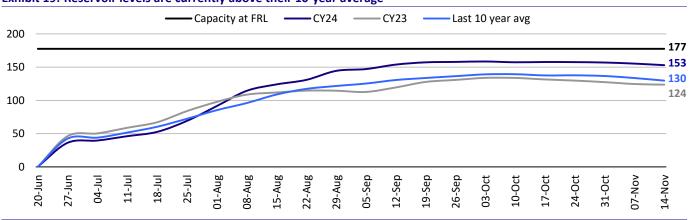
Source: Agmarknet, MOFSL

Exhibit 18: Kharif sowing grew 2% YoY in CY24

Sr No	Crop (m hectare)	Normal	Area	Sown	% Change
		Area (DES)	CY24	CY23	YOY
1	Paddy	40.2	41.5	40.5	2
2	Pulses	13.6	12.8	11.9	7
а	Arhar	4.6	4.7	4.1	14
b	Urdbean	3.7	3.0	3.3	-8
С	Moongbean	3.7	3.6	3.1	13
d	Kulthi	0.2	0.1	0.0	37
е	Moth bean	1.0	1.1	0.9	12
f	Other pulses	0.4	0.5	0.5	7
3	Shree Anna & Coarse Cereals	18.1	19.3	18.6	4
а	Jowar	1.6	1.6	1.4	13
b	Bajra	7.3	7.0	7.1	-1
С	Ragi	1.1	1.3	1.1	20
d	Small millets	0.4	0.6	0.6	9
e	Maize	7.7	8.9	8.5	5
4	Oilseeds	19.0	19.6	19.1	3
a	Groundnut	4.5	4.8	4.4	9
b	Soybean	12.3	12.7	12.4	2
С	Sunflower	0.1	0.1	0.1	5
d	Sesamum	1.0	1.1	1.2	-7
е	Niger	0.1	0.1	0.1	15
f	Castor	0.9	0.8	1.0	0
5	Sugarcane	5.1	5.8	5.7	1
6	Jute & Mesta	0.7	0.6	0.7	-14
7	Cotton	12.9	11.3	12.4	-9
	Total	109.6	110.9	108.8	2

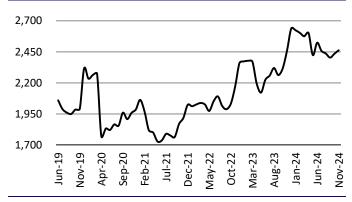
Source: Agricoop, MOFSL

Exhibit 19: Reservoir levels are currently above their 10-year average



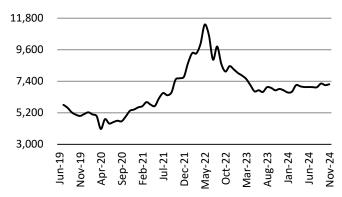
Source: Agricoop, MOFSL

Exhibit 20: Rice price trend (INR/quintal)



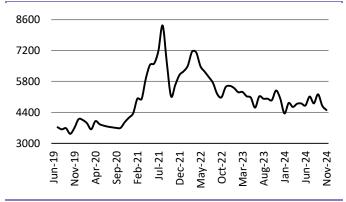
Source: AgMarknet, MOFSL

Exhibit 21: Cotton price trend (INR/quintal)



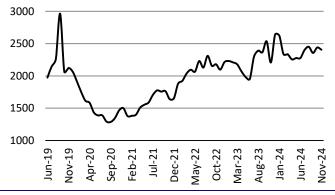
Source: AgMarknet, MOFSL

Exhibit 22: Soybean price trend (INR/quintal)



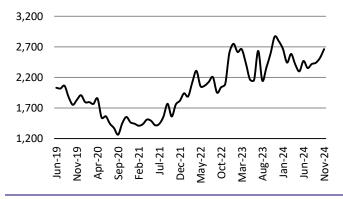
Source: AgMarknet, MOFSL

Exhibit 23: Maize price trend (INR/quintal)



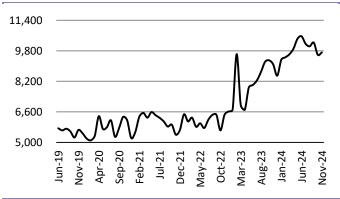
Source: AgMarknet, MOFSL

Exhibit 24: Bajra price trend (INR/quintal)



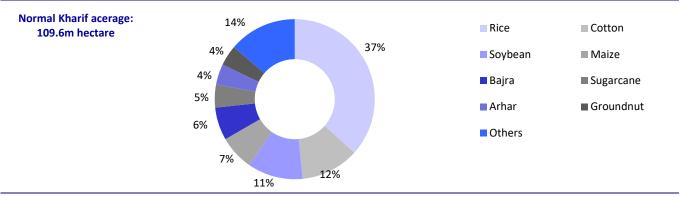
Source: AgMarknet, MOFSL

Exhibit 25: Arhar price trend (INR/quintal)



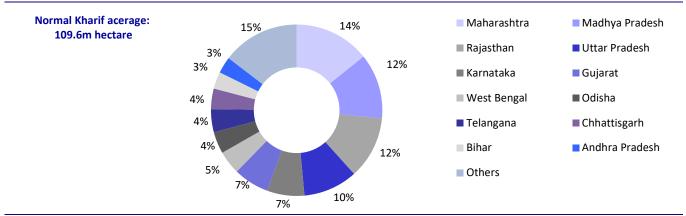
Source: AgMarknet, MOFSL

Exhibit 26: Crop-wise sowing area (average of the last five years)



Source: Agricoop, MOFSL

Exhibit 27: State-wise sowing area (average of the last five years)



Source: Agricoop, MOFSL

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Registration details of group entities.: Motilal Oswal Financial Services Ltd. (MOFSL): INZ000158836 (BSE/NSE/MCX/NCDEX); CDSL and NSDL: IN-DP-16-2015; Research Analyst: INH000000412 . AMFI: ARN .: 146822. IRDA Corporate Agent – CA0579. Motilal Oswal Financial Services Ltd. is a distributor of Mutual Funds, PMS, Fixed Deposit, Insurance, Bond, NCDs and IPO products.

Customer having any query/feedback/ clarification may write to query@motilaloswal.com. In case of grievances for any of the services rendered by Motilal Oswal Financial Services Limited (MOFSL) write to grievances@motilaloswal.com, for DP to dpgrievances@motilaloswal.com.