



**EXECUTIVE SUMMARY
RAPESEED-MUSTARD CROP
SURVEY 2016-17**

Executive Summary

- The Solvent Extractors' Association of India (SEA) is an all India apex body of solvent extraction industry and at present almost all-working solvent extraction units are its members. The association continuously gives feedback to the members about the developments taking place in the country and world.
- As one of its activities, SEA conducts Rapeseed-Mustard crop estimation survey in key states of India. Thus SEA commissioned Nielsen India to conduct a crop estimation study for Rapeseed-Mustard in Rajasthan, Uttar Pradesh, Madhya Pradesh, Haryana and Gujarat.
- Nielsen India is the largest market research agency in the subcontinent with the requisite experience, expertise and infrastructure to conduct such studies.
- This year, Nielsen India will be conducting the study on behalf of SEA in Rajasthan, Uttar Pradesh, Madhya Pradesh, Haryana and Gujarat during the period **December 2016 – April 2017**.
- Till date the study was carried out in major districts of Rajasthan, Uttar Pradesh, Madhya Pradesh, Haryana and Gujarat in two field survey rounds during **December 2016 – March 2017** to assess the crop. Third round of the survey will be conducted in April 2017 to re-confirm the estimates and may be revised if necessary.

Rapeseed-Mustard Crop in India

- The fairly good distribution of rainfall during monsoon season 2016 has resulted substantial surface water storage to serve irrigation requirement of Rabi crops. Though rainfall in Haryana, Punjab and part of Gujarat was deficit, it is not expected to affect the crop as both the regions falls under assured irrigation segment.
- Rapeseed-Mustard is the main oilseed crop for the Rabi season which is planted on more than 74% area covered under oilseeds. Rajasthan, Uttar Pradesh, Madhya Pradesh, Haryana and Gujarat are the highest sown states of mustard seed accounting for more than 70% of total mustard acreage in the country.
- Following near normal and good monsoon rains, the acreage under rapeseed- mustard has increased because of favourable weather conditions and adequate soil moisture. Moreover, increase in minimum support prices (MSP) too attracts farmers to plant higher mustard crop.

Rajasthan

- Total area under Rapeseed-Mustard and Taramira Rabi crop in Rajasthan for the year 2016-17 is **2562,000 hectares** and **236,000 hectares** respectively as per the Government's estimates. Taramira crop is cultivated only in Rajasthan.
- Estimated total production of Rapeseed-Mustard and Taramira in Rajasthan for the year 2016-17 is **33,05,000 tonnes**.
- Average yield of Rapeseed-Mustard and Taramira in Rajasthan for the year 2016-17 is **1181 kg/hectare**.

District-wise Area, Yield and Production of Rapeseed-Mustard and Taramira in Rajasthan (2016-17)

District	Area under crop ('000 Ha.) *			Yield (Kg/Ha.) #			Production # ('000 tonnes)		
	Rapeseed-Mustard	Taramira	Ttotal	Rapeseed-Mustard	Taramira	Rapeseed-Mustard & Taramira	Rapeseed-Mustard	Taramira	Total
Jaipur	86	44.5	131	1035	499	852	89	22.2	111
Dausa	59	9.9	69	1356	576	1244	80	5.7	86
Tonk	251	8.4	259	1124	667	1109	282	5.6	288
Jhunjhunu	73	2.4	75	795	458	784	58	1.1	59
Nagaur	57	11.8	69	1246	653	1144	71	7.7	79
Alwar	235	3.9	239	1519	436	1501	357	1.7	359
Bharatpur	205	1.3	206	1298	462	1292	266	0.6	267
S. Madhopur	168	3.7	172	1143	459	1128	192	1.7	194
Karoli	79	9.2	88	1190	446	1112	94	4.1	98
Bikaner	65	3.6	69	1262	472	1220	82	1.7	84
Ganganagar	238	35.1	273	1475	368	1332	351	12.9	364
Hanumangadh	126	13.4	139	1460	448	1363	184	6	190
Jodhpur	119	4.5	124	1126	689	1110	134	3.1	137
Jalore	87	2.0	89	1149	200	1128	100	0.4	100
Kota	62	0.3	62	1145	333	1141	71	0.1	71
Baran	92	0.4	92	989	500	987	91	0.2	91
Others	560	81.5	642	1245	375	1134	697	30.6	728
Total for State	2562	235.9	2798	1249	447	1181	3200	105.4	3305

* Area as per Govt. estimates
Nielsen estimates

Uttar Pradesh

- Total area under Rapeseed-Mustard Rabi crop in Uttar Pradesh for the year 2016-17 is **7,85,000 hectares** as per the Government's estimates. Toria crop is cultivated only in Uttar Pradesh in Kharif season
- Estimated total production of Rapeseed-Mustard in Uttar Pradesh for the year 2016-17 is **8,48,000 tonnes**.
- Average yield of Rapeseed-Mustard in Uttar Pradesh for the year 2016-17 is **1080 kg/hectare**.

District-wise Area, Yield and Production of Rapeseed-Mustard in Uttar Pradesh (2016-17)

District	Area under crop ('000 Ha.) *	Yield (Kg/Ha.) #	Production # ('000 tonnes)
Agra	51	1373	70
Mathura	53	1453	77
Aligarh	26	769	20
Auraiya	18	1389	25
Unnao	20	1300	26
Badaun	29	897	26
Kanpur (Dihat)	33	1364	45
Hatras	10	800	8
Others	546	1009	551
Total for State	785	1080	848

* Area as per Govt. estimates

Nielsen estimates

Madhya Pradesh

- Total area under Rapeseed-Mustard Rabi crop in Madhya Pradesh for the year 2016-17 is **7,23,000 hectares** as per the Government's estimates.
- Estimated total production of Rapeseed-Mustard in Madhya Pradesh for the year 2016-17 is **6,07,000 tonnes**.
- Average yield of Rapeseed-Mustard in Uttar Pradesh for the year 2016-17 is **840 kg/hectare**.

District-wise Area, Yield and Production of Rapeseed-Mustard in Madhya Pradesh (2016-17)

District	Area under crop ('000 Ha.) *	Yield (Kg/Ha.) #	Production # ('000 tonnes)
Morena	136	971	132
Bhind	134	858	115
Shivpuri	59	542	32
Gwalior	22	682	15
Mandsore	54	852	46
Neemach	33	848	28
Others	286	839	240
Total for State	723	840	607

* Area as per Govt. estimates

Nielsen estimates

Haryana

- Total area under Rapeseed-Mustard Rabi crop in Haryana for the year 2016-17 is **5,37,000 hectares** as per the Government's estimates.
- Estimated total production of Rapeseed-Mustard in Haryana for the year 2016-17 is **7,54,000 tonnes**.
- Average yield of Rapeseed-Mustard in Haryana for the year 2016-17 is **1404 kg/hectare**.

District-wise Area, Yield and Production of Rapeseed-Mustard in Haryana (2016-17)

District	Area under crop ('000 Ha.) *	Yield (Kg/Ha.) #	Production # ('000 tonnes)
Bhiwani	141	1411	199
Mahendragarh	77	1519	117
Rewari	68	1279	87
Sirsa	50	1200	60
Hisar	71	1507	107
Others	130	1408	183
Total for State	537	1404	754

* Area as per Govt. estimates

Nielsen estimates

Gujarat

- Total area under Rapeseed-Mustard Rabi crop in Gujarat for the year 2016-17 is **2,00,000 hectares** as per the Government's estimates.
- Estimated total production of Rapeseed-Mustard in Gujarat for the year 2016-17 is **3,03,000 tonnes**.
- Average yield of Rapeseed-Mustard in Gujarat for the year 2016-17 is **1515 kg/hectare**.

District-wise Area, Yield and Production of Rapeseed-Mustard in Gujarat (2016-17)

District	Area under crop ('000 Ha.) *	Yield (Kg/Ha.) #	Production # ('000 tonnes)
Banaskantha	130	1508	196
Mahesana	23	1609	37
Patan	28	1429	40
Others	20	1500	30
Total for State	200	1515	303

* Area as per Govt. estimates

Nielsen estimates

Other States

State-wise Area, Yield and Production of Rapeseed-Mustard In other states (2016-17)

State	Area under crop ('000 Ha.) *	Yield (Kg/Ha.) #	Production # ('000 tonnes)
West Bengal	489	1067	522
Assam	302	619	187
Jharkhand	271	779	211
Chattisgarh	149	503	75
Bihar	127	1142	145
Orissa	108	296	32
Other states	163	736	120
Total for State	1609	803	1292

* Govt. area estimates for Rapeseed-Mustard crop for 2016-17

Nielsen estimates through secondary research – considered CAGR of yield for the last 5 years

All India

- Total production of Rapeseed-Mustard in India including **Rabi and kharif** crop (Kharif Toria crop cultivated in UP) for the year 2016-17 is **72,29,000 tonnes**.
- Total area under Rapeseed-Mustard **Rabi crop** in India for the year 2016-17 is **66,52,000 hectares** as per the Government's estimates.
- Estimated total production of Rapeseed-Mustard **Rabi crop** in India for the year 2016-17 is **71,09,000 tonnes**.
- Average yield of Rapeseed-Mustard **Rabi crop** in India for the year 2016-17 is **1069 kg/hectare**.

State-wise Area, Yield and Production of Rapeseed-Mustard (2016-17)

Source	State	Area Under Crop ('000 Ha.)	Yield (Kg/Ha.)	Production ('000 tonnes)
Primary Survey Estimates	Rajasthan	2798	1181	3305
	Uttar Pradesh	785	1080	848
	Madhya Pradesh	723	840	607
	Haryana	537	1404	754
	Gujarat	200	1515	303
	Total		5043	1153
Secondary Research Estimates #	West Bengal	489	1067	522
	Assam	302	619	187
	Jharkhand	271	780	211
	Chhattisgarh	149	506	75
	Bihar	127	1141	145
	Orissa	108	293	32
	Other states	163	734	120
	Total		1609	803
All India Rapeseed-Mustard & Taramira Crop (Rabi)		6652	1069	7109
	Toria crop Kharif crop in UP *	404	297	120
All India Rapeseed-Mustard, Taramira & Toria Crop (Kharif + Rabi)		7056	1025	7229

Area estimates as per 2016-17 Govt. estimates and yield estimates basis CAGR of yield for last 5 years)

* Solvent Extractos' Association estimates for kharif crop Toria in UP